

z/OS



# MVS Data Areas, Volume 5 (SSAG - XTLST)



z/OS



# MVS Data Areas, Volume 5 (SSAG - XTLST)

**Note**

Before using this information and the product it supports, be sure to read the general information under "Notices" on page 577.

**Fifth Edition, October 2003**

This is a major revision of GA22-7585-03.

This edition applies to Version 1, Release 4 of z/OS (5694-A01) and Version 1, Release 4 of z/OS.e (5655-G52), and to all subsequent releases and modifications until otherwise indicated in new editions.

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## About this document

This document provides graphic presentations of many data areas used by the z/OS operating system and by application programs. This document provides the data areas that are one or more of the following:

- Programming interfaces
- Needed for debugging or diagnosis.

This document supports z/OS (5694-A01) and z/OS.e (5655-G52).

For the latest information updates that have been provided in PTF cover letters and Documentation APARS for z/OS and z/OS.e, see the online document at:

<http://www.s390.ibm.com/bookmgr-cgi/bookmgr.cmd/BOOKS/ZIDOCMST/CCONTENTS>

This document is updated weekly and lists documentation changes before they are incorporated into z/OS publications.

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## Who should use this document

This document is for system programmers who diagnose and debug operating system and programming problems. It provides information for debugging installation-provided programs or diagnosing IBM-provided programs. The user of this publication should have a working knowledge of the functions and logic of the operating system.

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## How to use this document

Data areas are sequenced alphanumerically by data area acronym. Each data area has up to four sections:

- Programming Interface Information
- Header
- Data area map
- Cross-reference, if the data area map is long enough

There are five volumes of *Data Areas*. The following list shows the range of data areas included in each volume:

|                                                   |           |
|---------------------------------------------------|-----------|
| <i>z/OS MVS Data Areas, Vol 1 (ABEP-DALT)</i>     | GA22-7581 |
| <i>z/OS MVS Data Areas, Vol 2 (DCCB-ITZYRETC)</i> | GA22-7582 |
| <i>z/OS MVS Data Areas, Vol 3 (IVT-RCWK)</i>      | GA22-7583 |
| <i>z/OS MVS Data Areas, Vol 4 (RD-SRRA)</i>       | GA22-7584 |
| <i>z/OS MVS Data Areas, Vol 5 (SSAG-XTLST)</i>    | GA22-7585 |

## The header

The header includes some or all of the following:

|                            |                                                                                                                                                                                                                                                                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Common Name:</b>        | The descriptive name of the data area.                                                                                                                                                                                                                                                                                                        |
| <b>Macro ID:</b>           | The name of the mapping macro for the data area. Mapping macros can be issued in programs to generate a copy of the data area.                                                                                                                                                                                                                |
| <b>DSECT Name:</b>         | Name of the DSECT (dummy control section) created by the mapping macro.                                                                                                                                                                                                                                                                       |
| <b>Owning Component:</b>   | Component name and component identifier in parentheses.                                                                                                                                                                                                                                                                                       |
| <b>Eye-Catcher ID:</b>     | Character string identifier of the eye-catcher (sometimes called the <b>control block id</b> ) within the mapping macro. The offset and length of the eye-catcher are also included.                                                                                                                                                          |
| <b>Storage Attributes:</b> | The storage attributes of the data area, including the following: <ul style="list-style-type: none"><li><b>Main Storage:</b> Central storage attributes of the data area.</li><li><b>Virtual Storage:</b> Virtual storage attributes of the data area.</li><li><b>Auxiliary Storage:</b> Spool storage attributes of the data area.</li></ul> |

**Subpool and Key:** Subpool is the area of virtual storage that contains the data area. Key is the storage protect key for the storage represented by the data area.

**Size:** The size of the data area in decimal bytes.

**Created by:** Module, macro, or component whose use creates the data area.

**Pointed to by:** Registers or data area fields that contain the address of the data area.

**Serialization:** Method used to ensure that one user does not update a data area that is being updated or used by another user. The most common methods used for serialization are:

- Lock or locks
- ENQ and DEQ macros
- Compare and Swap (CS) instruction
- Disablement, which is disabling interruptions by setting bits in the program status word (PSW) of the program using the data area

**Function:** Brief description of the use of the data area.

## Data area map

The data area is described field by field. These field descriptions are taken directly from the system code.

The following is an example of the field descriptions for the ANYAREA data area:

| Offsets |     |            |     |            |                                  |
|---------|-----|------------|-----|------------|----------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                      |
| 0       | (0) | STRUCTURE  | 384 | ANYAREA    |                                  |
| 0       | (0) | CHARACTER  |     | ANYBEGIN   | BEGINNING OF ANYAREA             |
| 0       | (0) | CHARACTER  | 4   | ANYACRO    | ACRONYM IN EBCDIC 'ANY '         |
| 4       | (4) | ADDRESS    | 4   | ANYADDR    | ADDRESS OF NEXT ANYAREA ON QUEUE |

For each field in the data area, the data area map provides the following information:

**Offsets** The address of the field, shown in both decimal (DEC) and hexadecimal (HEX in parentheses), relative to the beginning of the data area.

**Type** The kind of program data defined for this field, as follows:

| Type      | Description                         |
|-----------|-------------------------------------|
| ADDRESS   | Address constant                    |
| BITSTRING | Bitstring constant                  |
| CHARACTER | Character value                     |
| DBL WORD  | Double word boundary                |
| FIXED     | Arithmetic signed or unsigned value |
| HEX       | Hexadecimal value                   |
| SIGNED    | Arithmetic signed value             |
| STRUCTURE | Level 1 control block name          |
| UNSIGNED  | Unsigned value                      |

**Len** Size of the field in decimal bytes.

**Name (Dim)** The name of the field, bit, or mask.

Bit or mask names are preceded by a description of bit position and value, as follows:

|           |                                      |
|-----------|--------------------------------------|
| 1... .... | Refers to bit 0.                     |
| .... ..11 | Refers to bits 6 and 7.              |
| ...1 .... | Refers to bit 3.                     |
| 11.. 1111 | Refers to bits 0, 1, 4, 5, 6, and 7. |

**Description** A description of the purpose or meaning of the field, bit, or mask.

## Cross reference

For each data area with more than 10 fields, the cross reference shows the following:

|                   |                                                                                                                                                                                    |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>       | The name of the field, bit, or mask.                                                                                                                                               |
| <b>Hex Offset</b> | The hexadecimal offset of the field into the data area. For bits, the hexadecimal offset of the field containing the bit.                                                          |
| <b>Hex Value</b>  | Values are shown only for bits, equates, and initialized character strings. For bits, the hexadecimal value shown implies the position of the bit in the field containing the bit. |

Bit ANYBIT in the following illustration shows how to use the hexadecimal value. In the Example, cross reference for the ANYBIT bit looks like this:

| <b>Name</b> | <b>Hex Offset</b> | <b>Hex Value</b> |
|-------------|-------------------|------------------|
| ANYBIT      | F0                | 80               |

In the map of the data area, the ANYBIT bit appears like this:

```
240 (F0) FIXED 4 ANYWORD CONTROL WORD
240 (F0) BITSTRING 1 ANYBYTE FLAG BYTE

1... .... ANYBIT "X'80'" BIT ON MEANS THIS . . .
```

X'F0' is the offset of field ANYWORD into the data area. ANYWORD is a 4-byte field, which contains a 1-byte field named ANYBYTE. Both ANYWORD and ANYBYTE have the same offset. The first bit in both fields is named ANYBIT. Ignoring the other bits in the field ANYBYTE, if the ANYBIT bit is on, the value of field ANYBYTE would be 1000 0000, which is equivalent to X'80'. This value (X'80') is shown both in the Description in the data area map and in the column of the cross reference.

---

## Where to find more information

For complete titles and order numbers of the books for all products that are part of z/OS, see *z/OS Information Roadmap*.

## Accessing licensed documents on the Internet

z/OS licensed documentation is available on the Internet in PDF format at the IBM Resource Link Web site at:

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## Using LookAt to look up message explanations

LookAt is an online facility that allows you to look up explanations for most messages you encounter, as well as for some system abends and codes. Using LookAt to find information is faster than a conventional search because on most cases LookAt goes directly to the message explanation.

You can access LookAt from the Internet at:

<http://www.ibm.com/servers/eserver/zseries/zos/bkserv/lookat/lookat.html>

or from anywhere in z/OS where you can access a TSO/E command line (for example, TSO/E prompt, ISPF, z/OS UNIX System Services running OMVS). You can also download code from the *z/OS Collection* (SK3T-4269) and the LookAt Web site that will allow you to access LookAt from a handheld computer (Palm Pilot VIIx suggested).

To use LookAt as a TSO/E command, you must have LookAt installed on your host system. You can obtain the LookAt code for TSO/E from a disk on your *z/OS Collection* (SK3T-4269) or from the **News** section on the LookAt Web site.

Some messages have information in more than one document. For those messages, LookAt displays a list of documents in which the message appears.



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# Summary of changes

**Summary of changes  
for GA22-7585-04  
z/OS Version 1 Release 4  
as updated October 2003**

The document contains information previously presented in *z/OS MVS Data Areas*, GA22-7585-03, which supports z/OS Version 1 Release 4.

This document contains terminology, maintenance and editorial changes.

Starting with z/OS V1R2, you may notice changes in the style and structure of some content in this document — for example, headings that use uppercase for the first letter of initial words only, and procedures that have a different look and format. The changes are ongoing improvements to the consistency and retrievability of information in our documents.

**Summary of changes  
for GA22-7585-03  
z/OS Version 1 Release 4**

The document contains information previously presented in *z/OS MVS Data Areas*, GA22-7585-02, which supports z/OS Version 1 Release 3.

This document contains terminology, maintenance and editorial changes.

**Summary of changes  
for GA22-7585-02  
z/OS Version 1 Release 3**

The document contains information previously presented in GA22-7585-01, which supports z/OS Version 1 Release 2.

**New information**

Information is added to indicate this document supports z/OS.e.

This document contains terminology, maintenance and editorial changes.

**Summary of changes  
for GA22-7585-01  
z/OS Version 1 Release 2**

The document contains information previously presented in *z/OS MVS Data Areas*, GA22-7585-00, which supports z/OS Version 1 Release 1.

**Summary of changes  
for GA22-7585-00  
z/OS Version 1 Release 1**

The document contains information also presented in *OS/390 MVS Data Areas*.





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## Data Areas Volume 5 (SSAG - XTLST)



## SSAG Heading Information

**Common Name:** SSOB Extension for Allocation Grouping of SUBSYS  
**Macro ID:** IEFSSAG  
**DSECT Name:** SSAG  
**Owning Component:** Allocation/unallocation (SC1B4)  
**Subpool and Key:** User subpool and key  
**Size:** 20 bytes for SSOB plus 24 bytes for SSAG  
**Created by:** IEFAB427  
**Pointed to by:** SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** Parameter list fo the subsystem interface.

### SSAG Map

| Offsets |      |            |     |            |                                                  |
|---------|------|------------|-----|------------|--------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                      |
| 0       | (0)  | STRUCTURE  | 28  | SSAG       | BEGINNING OF EXTENSION                           |
| 0       | (0)  | CHARACTER  | 28  | SSAGEHDR   | EXTENSION HEADER                                 |
| 0       | (0)  | SIGNED     | 2   | SSAGLEN    | LENGTH OF EXTENSION                              |
| 2       | (2)  | BITSTRING  | 2   | SSAGFLGS   | GROUP LEVEL FLAGS                                |
|         |      | 1... ....  |     | SSAGWAIT   | OK TO WAIT FLAG                                  |
|         |      | .1... .... |     | SSAGSMMSG  | SUBSYSTEM TO RETURN ERROR MESSAGES FLAG          |
| 2       | (2)  | BITSTRING  | 1   | *          | RESERVED FLAGS                                   |
| 4       | (4)  | SIGNED     | 2   | SSAGGPEC   | GROUP LEVEL ERROR CODE                           |
| 6       | (6)  | SIGNED     | 2   | SSAGGPIC   | GROUP LEVEL INFO CODE - DEFINED BY THE SUBSYSTEM |
| 8       | (8)  | ADDRESS    | 4   | SSAGARBP   | PTR TO FIRST RB                                  |
| 12      | (C)  | ADDRESS    | 4   | SSAGCNCL   | POINTER TO CANCEL ECB                            |
| 16      | (10) | ADDRESS    | 4   | SSAGJBNM   | POINTER TO JOB NAME                              |
| 20      | (14) | SIGNED     | 4   | SSAGMLN    | MAXIMUM LENGTH OF SUBSYSTEM GROUP LEVEL MESSAGE  |
| 24      | (18) | ADDRESS    | 4   | SSAGGMGP   | POINTER TO GROUP LEVEL MESSAGE BLOCK             |

### SSAG Constants

| Len                                              | Type    | Value | Name     | Description                                 |
|--------------------------------------------------|---------|-------|----------|---------------------------------------------|
| 2                                                | DECIMAL | 39    | SSOBAGRP | GROUP SUBSYS REQUESTS                       |
| Comment                                          |         |       |          |                                             |
| ALLOCATION GROUP REQUEST RETURN CODES (SSOBRETN) |         |       |          |                                             |
| End of Comment                                   |         |       |          |                                             |
| 2                                                | DECIMAL | 0     | SSAGRTOK | SUCCESSFUL - ALL REQUESTS WERE ALLOCATED    |
| 2                                                | DECIMAL | 4     | SSAGDDER | NO ALLOCATION- ONE OR MORE REQUEST IN ERROR |
| 2                                                | DECIMAL | 8     | SSAGGPER | NO ALLOCATION - GROUP LEVEL ERROR           |

## SSAG Cross Reference

| Len                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Type    | Value | Name     | Description                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|----------|-----------------------------------------|
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |       |          |                                         |
| <p>THE FOLLOWING RETURN CODES WILL BE RETURNED BY THE SUBSYSTEM IN FIELDS SSAGGPEC AND SSAGRBEC.</p> <p>- FIELD SSAGGPEC (AND OPTIONALLY SSAGRBEC) IS TO BE SET WHEN SSAGGPER IS RETURNED IN SSOBRETN.</p> <p>- FIELD SSAGRBEC CORRESPONDING TO THE REQUEST(S) IN ERROR IS TO BE SET WHEN SSAGDDER IS RETURNED IN SSOBRETN.</p> <p>THE ASSOCIATED FIELDS SSAGGPIC AND SSAGRBIC ARE TO BE SET TO SUBSYSTEM DEFINED VALUES THAT WILL BE RETURNED AS DYNAMIC ALLOCATION INFORMATIONAL REASON CODES.</p> <p>ERROR MESSAGE PROCESSING</p> <p>-WHEN SSAGSMMSG IS SET BY THE CALLER, FIELDS SSAGGMGP AND SSAGDMGP WILL EACH CONTAIN A POINTER TO AN AREA IN WHICH THE SUBSYSTEM IS TO RETURN SUBSYSTEM DEFINED ERROR MESSAGES CORRESPONDING TO THE VALUES SET IN FIELDS SSAGGPIC AND SSAGRBIC.</p> <p>-EACH MESSAGE AREA CONSISTS OF A 2 BYTE LENGTH FOLLOWED BY A MESSAGE TEXT AREA OF LENGTH DEFINED IN SSAGGMLN AND SSAGDMLN. THE MESSAGE AREA IS NOT INITIALIZED BY THE CALLER AND THE SUBSYSTEM MUST SET THE LENGTH OF THE MESSAGE TEXT RETURNED. BLANKS WILL BE COMPRESSED BY THE CALLER.</p> <p>-MESSAGES ARE TO BE RETURNED ONLY FOR REQUESTS THAT ARE IN ERROR.</p> <p>NOTE: FIELDS SSAGRBEC, SSAGRBIC, SSAGDMGP, AND SSAGDMLN ARE DEFINED IN THE GROUP ALLOCATION REQUEST BLOCK, 'SSAGARBK' - MAPPED BY MACRO IEFSSARB.</p> |         |       |          |                                         |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |       |          |                                         |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DECIMAL | 0     | SSAGRQOK | REQUEST ALLOCATED                       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DECIMAL | 4     | SSAGORUN | OPERATING SYSTEM RESOURCE NOT AVAILABLE |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DECIMAL | 8     | SSAGSRUN | SUBSYSTEM RESOURCE NOT AVAILABLE        |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DECIMAL | 12    | SSAGIPRM | INVALID PARAMETER                       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DECIMAL | 16    | SSAGIREQ | INVALID REQUEST                         |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DECIMAL | 20    | SSAGCREQ | CANCEL REQUESTED                        |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DECIMAL | 24    | SSAGSSER | SUBSYSTEM LOGIC ERR                     |

## SSAG Cross Reference

| Name      | Hex Offset | Hex Value |
|-----------|------------|-----------|
| SSAG      | 0          |           |
| SSAGARBP  | 8          |           |
| SSAGCNCL  | C          |           |
| SSAGEHDR  | 0          |           |
| SSAGFLGS  | 2          |           |
| SSAGGMGP  | 18         |           |
| SSAGGMLN  | 14         |           |
| SSAGGPEC  | 4          |           |
| SSAGGPIC  | 6          |           |
| SSAGJBNM  | 10         |           |
| SSAGLEN   | 0          |           |
| SSAGSMMSG | 2          | 40        |
| SSAGWAIT  | 2          | 80        |

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**SSAL Programming Interface information**

Programming Interface information

**SSAL**

End of Programming Interface information

## SSAL Heading Information

**Common Name:** Allocation/Unallocation of SYSOUT function  
**Macro ID:** IEFSSAL  
**DSECT Name:** SSAL (OPTIONAL)  
**Owning Component:** Allocation (SC1B4)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: Subpool 230  
 Key: Scheduler key  
 Residency: Any  
**Size:** LENGTH(SSAL)  
**Created by:** IEFAB4SF  
**Pointed to by:** SSOBINDV field of the SSOB control block (SSOBSOBH)  
**Serialization:** None  
**Function:** Used by allocation modules to interface with subsystems to allocate/unallocate SYSOUT data sets or functions.

## SSAL Map

| Offsets                                         |     |            |     |            |                                                                                             |
|-------------------------------------------------|-----|------------|-----|------------|---------------------------------------------------------------------------------------------|
| Dec                                             | Hex | Type/Value | Len | Name (Dim) | Description                                                                                 |
| 0                                               | (0) | STRUCTURE  | 0   |            |                                                                                             |
| 0                                               | (0) | X'6'       | 0   | SSOBALOC   | "6" ALLOCATION FUNCTION ID (SSOBFUNC)                                                       |
| 0                                               | (0) | X'7'       | 0   | SSOBUNAL   | "7" UNALLOCATION FUNCTION ID (SSOBFUNC)                                                     |
| Comment                                         |     |            |     |            |                                                                                             |
| ALLOCATION/UNALLOCATION RETURN CODES (SSOBRETN) |     |            |     |            |                                                                                             |
| End of Comment                                  |     |            |     |            |                                                                                             |
| 0                                               | (0) | X'0'       | 0   | SSALRTOK   | "0" ALLOCATION/UNALLOCATION SUCCESSFUL                                                      |
| 0                                               | (0) | X'4'       | 0   | SSALWTFM   | "4" ALLOCATION WAIT FAILED YM04976                                                          |
| 0                                               | (0) | X'8'       | 0   | SSALCREQ   | "8" CANCEL REQUESTED                                                                        |
| 0                                               | (0) | X'C'       | 0   | SSALIDST   | "12" INVALID DESTINATION                                                                    |
| 0                                               | (0) | X'10'      | 0   | SSALNAUT   | "16" USER UNAUTHORIZED TO ALLOCATE THIS DATA SET                                            |
| 0                                               | (0) | X'14'      | 0   | SSALUNAL   | "20" UNABLE TO ALLOCATE YM04976                                                             |
| 0                                               | (0) | X'18'      | 0   | SSALRESV   | "24" SYSIN/SYSOUT TEMPORARY DATA SET NAME IS A RESERVED NAME                                |
| 0                                               | (0) | X'1C'      | 0   | SSALNCTK   | "28" Requested Allocation Sysout Client Token (CTOKEN) not returned by JES                  |
| 0                                               | (0) | X'0'       | 0   | SSALBGN    | ***                                                                                         |
| 0                                               | (0) | ADDRESS    | 2   | SSALLEN    | ALLOC/UNALLOC EXTENSION LENGTH                                                              |
| 2                                               | (2) | BITSTRING  | 1   | SSALFLG1   | ALLOCATION/UNALLOCATION FLAGS                                                               |
|                                                 |     | 1... ....  |     | SSALDELT   | "X'80" DELETE AT UNALLOCATION                                                               |
|                                                 |     | .1.. ....  |     | SSALHOLD   | "X'40" HOLD AT UNALLOCATION                                                                 |
|                                                 |     | .1. ....   |     | SSALNHLD   | "X'20" NOHOLD OPTION SPECIFIED                                                              |
|                                                 |     | ...1 ....  |     | SSALWAIT   | "X'10" WAIT FOR ALLOCATION                                                                  |
|                                                 |     | .... 1..   |     | SSALTRKM   | "X'08" ASSIGN A SEPARATE TRACK GROUP MAP                                                    |
|                                                 |     | .... .1..  |     | SSALSPIN   | "X'04" SPIN OFF DATA SET                                                                    |
|                                                 |     | .... .1.   |     | SSALASNM   | "X'02" DATA SET REQUIRES A DATA SET NAME                                                    |
|                                                 |     | .... ...1  |     | SSALKEEP   | "X'01" SUBSYSTEM SHOULD KEEP THE DS                                                         |
| 3                                               | (3) | BITSTRING  | 1   | SSALFLG2   | FLAG BYTE                                                                                   |
|                                                 |     | 1... ....  |     | SSALWTRN   | "X'80" PASSED PGM NAME IS A WRITER NAME                                                     |
|                                                 |     | .1.. ....  |     | SSALJBAB   | "X'40" JOB ABENDED                                                                          |
|                                                 |     | .1. ....   |     | SSALJFAL   | "X'20" JOB ENDED DUE TO ALLOCATION ERR                                                      |
|                                                 |     | ...1 ....  |     | SSALJECC   | "X'10" JOB ENDED DUE TO JOB COND CODES                                                      |
|                                                 |     | .... 1..   |     | SSALBROW   | "X'08" Browse token supplied                                                                |
|                                                 |     | .... .1..  |     | SSALAUTH   | "X'04" Caller is authorized                                                                 |
|                                                 |     | .... .1.   |     | SSALOVAF   | "X'02" Override system affinity for job submitted via dynamically-allocated internal reader |

| Offsets                                                                                                                                                                                                                                                                                     |      |                      |     |                      |                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------|-----|----------------------|-------------------------------------------------------------------------------------------------------------------------|
| Dec                                                                                                                                                                                                                                                                                         | Hex  | Type/Value           | Len | Name (Dim)           | Description                                                                                                             |
| Comment                                                                                                                                                                                                                                                                                     |      |                      |     |                      |                                                                                                                         |
| -rsvd- EQU X'01' Reserved - available<br>FOLLOWING FIELDS CONTAIN POINTERS TO THE INDICATED DATA -<br>(NUMBERS IN PARENTHESES INDICATE LENGTH OF AREA POINTED TO)<br>OR ELSE THE ACTUAL DATA ITSELF.                                                                                        |      |                      |     |                      |                                                                                                                         |
| End of Comment                                                                                                                                                                                                                                                                              |      |                      |     |                      |                                                                                                                         |
| 4                                                                                                                                                                                                                                                                                           | (4)  | ADDRESS              | 4   | SSALDDNM             | DDNAME (8)                                                                                                              |
| 8                                                                                                                                                                                                                                                                                           | (8)  | ADDRESS              | 4   | SSALDEST             | REMOTE DESTINATION ID OR BLANK (8)                                                                                      |
| 12                                                                                                                                                                                                                                                                                          | (C)  | ADDRESS              | 4   | SSALDISP             | DATA SET DISPOSITION (1)                                                                                                |
| 16                                                                                                                                                                                                                                                                                          | (10) | ADDRESS              | 4   | SSALDUMY             | DUMMY/SYSIN FLAGS (1)                                                                                                   |
| 20                                                                                                                                                                                                                                                                                          | (14) | ADDRESS              | 4   | SSALSOUT             | SYSOUT FLAGS (1)                                                                                                        |
| 24                                                                                                                                                                                                                                                                                          | (18) | ADDRESS              | 4   | SSALUNIT             | UNIT TYPE (8)                                                                                                           |
| 28                                                                                                                                                                                                                                                                                          | (1C) | ADDRESS              | 4   | SSALPGMN             | USER WRITER PROGRAM NAME (8)                                                                                            |
| 32                                                                                                                                                                                                                                                                                          | (20) | ADDRESS              | 4   | SSALFORM             | FORMS NUMBER (4)                                                                                                        |
| 36                                                                                                                                                                                                                                                                                          | (24) | ADDRESS              | 4   | SSALCLAS             | CLASS (1)                                                                                                               |
| 40                                                                                                                                                                                                                                                                                          | (28) | ADDRESS              | 4   | SSALADSP             | ALTERNATE DISPOSITION FLAGS (1)                                                                                         |
| 44                                                                                                                                                                                                                                                                                          | (2C) | ADDRESS              | 4   | SSALCOPY             | NUMBER OF COPIES TO BE PRINTED (1)                                                                                      |
| 48                                                                                                                                                                                                                                                                                          | (30) | ADDRESS              | 4   | SSALSSNM             | SUBSYSTEM NAME (4)                                                                                                      |
| 52                                                                                                                                                                                                                                                                                          | (34) | ADDRESS              | 4   | SSALJFCB             | JFCB (176)                                                                                                              |
| 56                                                                                                                                                                                                                                                                                          | (38) | ADDRESS              | 4   | SSALSSCM             | SUBSYSTEM INFORMATION (LENGTH IS DEPENDENT ON SUBSYSTEM)                                                                |
| 60                                                                                                                                                                                                                                                                                          | (3C) | ADDRESS              | 4   | SSALCNCL             | CANCEL ECB (ALLOCATION) (4)                                                                                             |
| 64                                                                                                                                                                                                                                                                                          | (40) | ADDRESS              | 4   | SSALSDEF             | COPIES/SYSOUT DEFAULT FLAGS (1)                                                                                         |
| 68                                                                                                                                                                                                                                                                                          | (44) | ADDRESS              | 4   | SSALTKNP             | SJF TOKEN (8)                                                                                                           |
| 72                                                                                                                                                                                                                                                                                          | (48) | ADDRESS              | 4   | SSALJFCE             | VIRTUAL ADDRESS OF JFCBE (176)                                                                                          |
| 76                                                                                                                                                                                                                                                                                          | (4C) | ADDRESS              | 4   | SSALTDSN             | SYSIN/SYSOUT TEMPORARY DATA SET NAME (8)                                                                                |
| 80                                                                                                                                                                                                                                                                                          | (50) | ADDRESS              | 4   | SSALBTKN             | Pointer to the first length field of a browse token                                                                     |
| 84                                                                                                                                                                                                                                                                                          | (54) | ADDRESS              | 4   | SSALRDRN             | Pointer to the program name                                                                                             |
| 88                                                                                                                                                                                                                                                                                          | (58) | SIGNED               | 4   | SSALCCNO             | Data set concatenation number                                                                                           |
| Comment                                                                                                                                                                                                                                                                                     |      |                      |     |                      |                                                                                                                         |
| Additional FLAG fields                                                                                                                                                                                                                                                                      |      |                      |     |                      |                                                                                                                         |
| End of Comment                                                                                                                                                                                                                                                                              |      |                      |     |                      |                                                                                                                         |
| 92                                                                                                                                                                                                                                                                                          | (5C) | BITSTRING<br>1... .. | 1   | SSALFLG3<br>SSALRCKT | FLAG BYTE #3<br>"X'80" Ask JES to return the Allocation Sysout Client Token associated with a SYSOUT allocation request |
| Comment                                                                                                                                                                                                                                                                                     |      |                      |     |                      |                                                                                                                         |
| -rsvd- EQU X'40' Reserved - available<br>-rsvd- EQU X'20' Reserved - available<br>-rsvd- EQU X'10' Reserved - available<br>-rsvd- EQU X'08' Reserved - available<br>-rsvd- EQU X'04' Reserved - available<br>-rsvd- EQU X'02' Reserved - available<br>-rsvd- EQU X'01' Reserved - available |      |                      |     |                      |                                                                                                                         |
| End of Comment                                                                                                                                                                                                                                                                              |      |                      |     |                      |                                                                                                                         |
| 93                                                                                                                                                                                                                                                                                          | (5D) | BITSTRING            | 1   | (3)                  | Reserved 3 bytes - available                                                                                            |
| Comment                                                                                                                                                                                                                                                                                     |      |                      |     |                      |                                                                                                                         |
| Following fields contain additional pointers to the indicated area -<br>(Numbers in parentheses indicate length of area pointed to)<br>or else the actual data itself.                                                                                                                      |      |                      |     |                      |                                                                                                                         |
| End of Comment                                                                                                                                                                                                                                                                              |      |                      |     |                      |                                                                                                                         |
| 96                                                                                                                                                                                                                                                                                          | (60) | ADDRESS              | 4   | SSALCTOK             | Ptr to CTOKEN area (80)                                                                                                 |

## SSAL Cross Reference

| Offsets |      |            |     |            |                                            |
|---------|------|------------|-----|------------|--------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                |
| 100     | (64) | SIGNED     | 4   | (4)        | Reserved 4 words - available               |
| 100     | (64) | X'74'      | 0   | SSALSIZE   | "*-SSALBGN" ALLOC/UNALLOC EXTENSION LENGTH |
| 100     | (64) | X'74'      | 0   | SSOBLN4    | "SSOBHSIZ+SSALSIZE" TOTAL SSOB LENGTH      |

## SSAL Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| SSALADSP | 28         |           |
| SSALASNM | 2          | 2         |
| SSALAUTH | 3          | 4         |
| SSALBGN  | 0          | 0         |
| SSALBROW | 3          | 8         |
| SSALBTKN | 50         |           |
| SSALCCNO | 58         |           |
| SSALCLAS | 24         |           |
| SSALCNCL | 3C         |           |
| SSALCOPY | 2C         |           |
| SSALCREQ | 0          | 8         |
| SSALCTOK | 60         |           |
| SSALDDNM | 4          |           |
| SSALDELT | 2          | 80        |
| SSALDEST | 8          |           |
| SSALDISP | C          |           |
| SSALDUMY | 10         |           |
| SSALFLG1 | 2          |           |
| SSALFLG2 | 3          |           |
| SSALFLG3 | 5C         |           |
| SSALFORM | 20         |           |
| SSALHOLD | 2          | 40        |
| SSALIDST | 0          | C         |
| SSALJBAB | 3          | 40        |
| SSALJECC | 3          | 10        |
| SSALJFAL | 3          | 20        |
| SSALJFCB | 34         |           |
| SSALJFCE | 48         |           |
| SSALKEEP | 2          | 1         |
| SSALLEN  | 0          |           |
| SSALNAUT | 0          | 10        |
| SSALNCTK | 0          | 1C        |
| SSALNHLD | 2          | 20        |
| SSALOVAF | 3          | 2         |
| SSALPGMN | 1C         |           |
| SSALRCTK | 5C         | 80        |
| SSALRDRN | 54         |           |
| SSALRESV | 0          | 18        |
| SSALRTOK | 0          | 0         |
| SSALSDEF | 40         |           |
| SSALSIZE | 64         | 74        |
| SSALSOUT | 14         |           |
| SSALSPIN | 2          | 4         |
| SSALSSCM | 38         |           |
| SSALSSNM | 30         |           |
| SSALTDSN | 4C         |           |
| SSALTKNP | 44         |           |
| SSALTRKM | 2          | 8         |
| SSALUNAL | 0          | 14        |
| SSALUNIT | 18         |           |
| SSALWAIT | 2          | 10        |
| SSALWTFM | 0          | 4         |
| SSALWTRN | 3          | 80        |
| SSOBALOC | 0          | 6         |
| SSOBLN4  | 64         | 74        |
| SSOBUNAL | 0          | 7         |



## SSARB Heading Information

**Common Name:** Subsystem Allocation Request Block  
**Macro ID:** IEFSSARB  
**DSECT Name:** SSABARBK  
**Owning Component:** Allocation/unallocation (SC1B4)  
**Subpool and Key:** Subpool 230 and key 1  
**Size:** 20 bytes for SSOB plus 60 bytes for SSARB  
**Created by:** IEFAB427  
**Pointed to by:** SSAGNRBP field of the SSARB data area  
 SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** Contains the information needed by a subsystem to allocate a SUBSYS DD request or its equivalent dynamic allocation request.

### SSARB Map

| Offsets |      |            |     |            |                                           |
|---------|------|------------|-----|------------|-------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                               |
| 0       | (0)  | STRUCTURE  | 60  | SSAGARBK   | SSAG REQUEST BLOCK MAPPING                |
| 0       | (0)  | SIGNED     | 2   | SSAGRBLN   | REQUEST BLOCK LENGTH                      |
| 2       | (2)  | BITSTRING  | 2   | SSAGRBFL   | RESERVED FLAGS                            |
| 4       | (4)  | SIGNED     | 2   | SSAGRBEC   | DD RELATED ERROR CODE                     |
| 6       | (6)  | SIGNED     | 2   | SSAGRBIC   | DD RELATED INFO CODE-DEFINED BY SUBSYSTEM |
| 8       | (8)  | SIGNED     | 2   | SSAGDMLN   | MAX LENGTH OF DD LEVEL MSG                |
| 10      | (A)  | SIGNED     | 2   | *          | RESERVED                                  |
| 12      | (C)  | ADDRESS    | 4   | SSAGNRBP   | POINTER TO NEXT RB OR 0                   |
| 16      | (10) | ADDRESS    | 4   | SSAGDDNM   | POINTER TO DDNAME                         |
| 20      | (14) | ADDRESS    | 4   | SSAGDISP   | POINTER TO DATA SET DISP                  |
| 24      | (18) | ADDRESS    | 4   | SSAGDUMY   | POINTER TO DUMMY/SYSIN FLAGS              |
| 28      | (1C) | ADDRESS    | 4   | SSAGSOUT   | POINTER TO SYSOUT FLAGS                   |
| 32      | (20) | ADDRESS    | 4   | SSAGUNIT   | POINTER TO UNIT TYPE                      |
| 36      | (24) | ADDRESS    | 4   | SSAGADSP   | POINTER TO ALTERNATE DISP                 |
| 40      | (28) | ADDRESS    | 4   | SSAGSSNM   | POINTER TO SUBSYSTEM NAME                 |
| 44      | (2C) | ADDRESS    | 4   | SSAGJFCB   | POINTER TO JFCB                           |
| 48      | (30) | ADDRESS    | 4   | SSAGSSWA   | POINTER TO SSWA                           |
| 52      | (34) | ADDRESS    | 4   | SSAGSSCM   | POINTER TO INFO                           |
| 56      | (38) | ADDRESS    | 4   | SSAGDMGP   | POINTER TO DD LEVEL MESSAGE BLOCK         |

| Offsets |     |            |     |            |                                         |
|---------|-----|------------|-----|------------|-----------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                             |
| 0       | (0) | STRUCTURE  | *   | SSAGDMBK   | DD LEVEL MESSAGE BLOCK                  |
| 0       | (0) | SIGNED     | 2   | SSAGDMGL   | LENGTH OF MESSAGE RETURNED BY SUBSYSTEM |
| 2       | (2) | CHARACTER  | *   | SSAGDMMSG  | DD LEVEL MESSAGE TEXT                   |

| Offsets |     |            |     |            |                                         |
|---------|-----|------------|-----|------------|-----------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                             |
| 0       | (0) | STRUCTURE  | *   | SSAGGMBK   | GROUP LEVEL MESSAGE BLK                 |
| 0       | (0) | SIGNED     | 2   | SSAGGMGL   | LENGTH OF MESSAGE RETURNED BY SUBSYSTEM |
| 2       | (2) | CHARACTER  | *   | SSAGGMSG   | GROUP LEVEL MESSAGE TEXT                |

## SSARB Cross Reference

### SSARB Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| SSAGADSP | 24            |              |
| SSAGARBK | 0             |              |
| SSAGDDNM | 10            |              |
| SSAGDISP | 14            |              |
| SSAGDMBK | 0             |              |
| SSAGDMGL | 0             |              |
| SSAGDMGP | 38            |              |
| SSAGDMLN | 8             |              |
| SSAGDMSG | 2             |              |
| SSAGDUMY | 18            |              |
| SSAGGMBK | 0             |              |
| SSAGGMGL | 0             |              |
| SSAGGMSG | 2             |              |
| SSAGJFCB | 2C            |              |
| SSAGNRBP | C             |              |
| SSAGRBEC | 4             |              |
| SSAGRBFL | 2             |              |
| SSAGRBIC | 6             |              |
| SSAGRBLN | 0             |              |
| SSAGSOUT | 1C            |              |
| SSAGSSCM | 34            |              |
| SSAGSSNM | 28            |              |
| SSAGSSWA | 30            |              |
| SSAGUNIT | 20            |              |

## SSAT Heading Information

**Common Name:** Sub System Affinity Table  
**Macro ID:** IHASSAT  
**DSECT Name:** SSAT  
**Owning Component:** Task Manager (SC1CL)  
**Subpool and Key:** Subpool 253, key 0  
**Size:** 80 bytes  
**Created by:** IEAVBK (system-wide Null SSAT) and IEAVESSI  
**Pointed to by:** TCBSSAT  
**Serialization:** Local lock  
**Function:** Maps the Sub System Affinity Table for the SSAFF SET/OBTAIN service routine IEAVESSI.

### SSAT Map

| Offsets |      |            |     |               |                                              |
|---------|------|------------|-----|---------------|----------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)    | Description                                  |
| 0       | (0)  | STRUCTURE  | 80  | SSAT          |                                              |
| 0       | (0)  | CHARACTER  | 16  | SSATHDR       | SSAT HEADER BEGIN                            |
| 0       | (0)  | CHARACTER  | 4   | SSATSSAT      | SSAT ACRONYM                                 |
| 4       | (4)  | ADDRESS    | 4   | SSATLNK       | PTR TO NEXT SSAT ON CHAIN                    |
| 8       | (8)  | SIGNED     | 4   | SSATCT        | NUMBER OF VALID SUBSYSTEM INDICES THIS TABLE |
| 12      | (C)  | SIGNED     | 4   | SSATHIDX      | HIGHEST INDEX FOR ALL TABLES                 |
| 16      | (10) | CHARACTER  | 4   | SSATENTS (16) | SUBSYSTEM ENTRY START                        |
| 80      | (50) | CHARACTER  | 0   | SSATEND       | SUBSYSTEM ENTRY                              |



## SSCA Heading Information

**Common Name:** SSOB Extension for Common Allocation/JES3 Exit  
**Macro ID:** IEFSSCA  
**DSECT Name:** SSCA  
**Owning Component:** Allocation/unallocation (SC1B4)  
**Subpool and Key:** User subpool and key  
**Size:** 20 bytes for SSOB plus 32 bytes for SSCA  
**Created by:** IEFAB422, IEFAB490  
**Pointed to by:** SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** Parameter list for the subsystem interface.

### SSCA Map

| Offsets |      |            |     |            |                                            |
|---------|------|------------|-----|------------|--------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                |
| 0       | (0)  | STRUCTURE  | 32  | SSCA       | BEGINNING COMMON ALLOCATION SSOB EXTENSION |
| 0       | (0)  | SIGNED     | 2   | SSCALEN    | LENGTH OF SSCA                             |
| 2       | (2)  | SIGNED     | 2   | SSCARSV0   | RESERVED                                   |
| 4       | (4)  | ADDRESS    | 4   | SSCAPSTN   | PTR TO STEP NUMBER                         |
| 8       | (8)  | ADDRESS    | 4   | SSCAPDDN   | PTR TO DDNAME                              |
| 12      | (C)  | ADDRESS    | 4   | SSCAPDSN   | PTR TO DSNNAME                             |
| 16      | (10) | ADDRESS    | 4   | SSCAPRPN   | PTR TO RELATIVE POSITION NUMBER            |
| 20      | (14) | ADDRESS    | 4   | SSCAPNUN   | PTR TO NUMBER OF UNITS REQUIRED            |
| 24      | (18) | ADDRESS    | 4   | SSCAPUAR   | PTR TO UCB ADDRESS RETURN AREA             |
| 28      | (1C) | ADDRESS    | 4   | SSCAPFLG   | PTR TO FLAG FIELD                          |

### SSCA Constants

| Len                                         | Type    | Value | Name     | Description                 |
|---------------------------------------------|---------|-------|----------|-----------------------------|
| 2                                           | DECIMAL | 24    | SSOBCACD | COMMON ALLOCATION           |
| Comment                                     |         |       |          |                             |
| COMMON ALLOCATION RETURN CODES (SSOBRETN) - |         |       |          |                             |
| End of Comment                              |         |       |          |                             |
| 4                                           | DECIMAL | 0     | SSCAALCA | ALLOC SELECT RETURN CODE    |
| 4                                           | DECIMAL | 4     | SSCAJESA | JES3 SELECT DEV RETURN CODE |

### SSCA Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| SSCA     | 0          |           |
| SSCALEN  | 0          |           |
| SSCAPDDN | 8          |           |
| SSCAPDSN | C          |           |
| SSCAPFLG | 1C         |           |
| SSCAPNUN | 14         |           |
| SSCAPRPN | 10         |           |
| SSCAPSTN | 4          |           |
| SSCAPUAR | 18         |           |
| SSCARSV0 | 2          |           |



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## SSCF Programming Interface information

Programming Interface information

**SSCF**

End of Programming Interface information

## SSCF Heading Information

**Common Name:** FAILING SVC 34 COMMANDS  
**Macro ID:** IEFSSCF  
**DSECT Name:** SSCF  
**Owning Component:** INITIATOR/TERMINATOR (SC1B6)  
**Eye-Catcher ID:** NONE  
**Storage Attributes:** Subpool: USER  
 Key: USER  
**Size:** 20 BYTES FOR SSOB1 PLUS 16 BYTES FOR SSCF  
**Created by:** SSI CALL USER  
**Pointed to by:** SSOBINDV  
**Serialization:** NONE  
**Function:** COMMAND FAIL FUNCTION

## SSCF Map

| Offsets                                       |     |            |     |            |                                                                     |
|-----------------------------------------------|-----|------------|-----|------------|---------------------------------------------------------------------|
| Dec                                           | Hex | Type/Value | Len | Name (Dim) | Description                                                         |
| 0                                             | (0) | STRUCTURE  | 0   |            |                                                                     |
| 0                                             | (0) | X'20'      | 0   | SSOBCFCD   | "32" COMMAND FAIL FUNCTION (SSOBFUNC)                               |
| Comment                                       |     |            |     |            |                                                                     |
| COMMAND FAIL RETURN CODES (SSOBRETN)          |     |            |     |            |                                                                     |
| End of Comment                                |     |            |     |            |                                                                     |
| 0                                             | (0) | X'0'       | 0   | SSOBCFOK   | "0" ISSUE SVC34 COMMAND ABORTED MESSAGE                             |
| 0                                             | (0) | X'4'       | 0   | SSOBCFNO   | "4" SUPPRESS ISSUING SVC34 COMMAND ABORTED MESSAGE                  |
| 0                                             | (0) | X'0'       | 0   | SSCFBGN    | *** SSFC BEGINNING                                                  |
| 0                                             | (0) | ADDRESS    | 2   | SSCFLEN    | SSFC EXTENSION LENGTH                                               |
| 2                                             | (2) | SIGNED     | 2   | SSCFRSV0   | RESERVED                                                            |
| 4                                             | (4) | ADDRESS    | 4   | SSCFBFAD   | ADDRESS OF COMMAND BUFFER                                           |
| 8                                             | (8) | SIGNED     | 4   | SSCFMRRC   | RETURN CODE FROM MEMORY REQUEST, OR CSCB CREATION FAILURE CODE      |
| Comment                                       |     |            |     |            |                                                                     |
| MEMORY REQUEST RETURN CODES AND FAILURE CODES |     |            |     |            |                                                                     |
| End of Comment                                |     |            |     |            |                                                                     |
| 8                                             | (8) | X'0'       | 0   | SSCFMROK   | "0" MEMORY REQUEST SUCCESSFUL                                       |
| 8                                             | (8) | X'4'       | 0   | SSCFSRMN   | "4" SRM PROHIBITS ADDRESS SPACE CREATION                            |
| 8                                             | (8) | X'8'       | 0   | SSCFNORS   | "8" RESOURCES NOT AVAILABLE (INSUFFICIENT SQA OR NO ASID AVAILABLE) |
| 8                                             | (8) | X'C'       | 0   | SSCFABND   | "12" UNEXPECTED ABEND IN MEMORY REQUEST                             |
| 8                                             | (8) | X'20'      | 0   | SSCFCSFL   | "32" CSCB CREATION FAILURE CODE                                     |
| 8                                             | (8) | X'24'      | 0   | SSCFCXFL   | "36" CSXB CREATION FAILURE CODE                                     |
| 8                                             | (8) | X'2C'      | 0   | SSCFSECF   | "44" SECURITY ENVIRONMENT COULD NOT BE ESTABLISHED                  |
| 12                                            | (C) | SIGNED     | 4   | SSCFRSV1   | RESERVED                                                            |
| 12                                            | (C) | X'10'      | 0   | SSCFSIZE   | **SSCFBGN" EXTENSION LENGTH                                         |
| 12                                            | (C) | X'10'      | 0   | SSOBLN16   | "SSOBHSIZ+SSCFSIZE" TOTAL SSOB LENGTH                               |



## SSCF Cross Reference

| Name      | Hex<br>Offset | Hex<br>Value |
|-----------|---------------|--------------|
| SSCFABND  | 8             | C            |
| SSCFBFAD  | 4             |              |
| SSCFBGN   | 0             | 0            |
| SSCFCSFL  | 8             | 20           |
| SSFCXFL   | 8             | 24           |
| SSCFLEN   | 0             |              |
| SSCFMROK  | 8             | 0            |
| SSCFMRRRC | 8             |              |
| SSCFNORS  | 8             | 8            |
| SSCFRSV0  | 2             |              |
| SSCFRSV1  | C             |              |
| SSCFSECF  | 8             | 2C           |
| SSCFSIZE  | C             | 10           |
| SSCFSRMN  | 8             | 4            |
| SSOBCFCD  | 0             | 20           |
| SSOBCFNO  | 0             | 4            |
| SSOBCFOK  | 0             | 0            |
| SSOBLN16  | C             | 10           |



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## SSCI Programming Interface Information

Programming Interface Information

SSCI

End of Programming Interface Information

## SSCI Heading Information

**Common Name:** SSOB Extension for SUBSYS Keyword Converter Exit  
**Macro ID:** IEFSSCI  
**DSECT Name:** SSCI  
**Owning Component:** Converter/interpreter (SC1B9)  
**Subpool and Key:** User subpool and key  
**Size:** 20 bytes for SSOB plus 24 bytes for SSCI  
**Created by:** IEFVFA  
**Pointed to by:** SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** Parameter list for the subsystem interface.

### SSCI Map

| Offsets                                                                                                             |      |            |     |            |                                               |
|---------------------------------------------------------------------------------------------------------------------|------|------------|-----|------------|-----------------------------------------------|
| Dec                                                                                                                 | Hex  | Type/Value | Len | Name (Dim) | Description                                   |
| 0                                                                                                                   | (0)  | STRUCTURE  | 0   |            |                                               |
| 0                                                                                                                   | (0)  | X'26'      | 0   | SSOB CONV  | "38" CONVERTER SUBSYS EXIT (SSOBFUNC)         |
| Comment                                                                                                             |      |            |     |            |                                               |
| CONVERTER EXIT RETURN CODES (SSOBRETN)                                                                              |      |            |     |            |                                               |
| End of Comment                                                                                                      |      |            |     |            |                                               |
| 0                                                                                                                   | (0)  | X'0'       | 0   | SSCIRTOK   | "0" SUCCESSFUL SYNTAX CHECK                   |
| 0                                                                                                                   | (0)  | X'4'       | 0   | SSCICMOD   | "4" SUCCESSFUL-INTERNAL TEXT MODIFIED         |
| 0                                                                                                                   | (0)  | X'8'       | 0   | SSCISYNC   | "8" SYNTATICAL ERROR - CONTINUE JOB           |
| 0                                                                                                                   | (0)  | X'C'       | 0   | SSCISYNT   | "12" SYNTATICAL ERROR - TERMINATE JOB         |
| 0                                                                                                                   | (0)  | X'24'      | 0   | SSCIPERR   | "36" PROGRAM ERROR IN ROUTINE                 |
| 0                                                                                                                   | (0)  | X'0'       | 0   | SSCIBGN    | *** CONVERTER EXTENSION BEGINNING             |
| 0                                                                                                                   | (0)  | ADDRESS    | 2   | SSCILEN    | CONVERTER EXTENSION SIZE                      |
| 2                                                                                                                   | (2)  | BITSTRING  | 1   | SSCIFLG1   | FLAGS RESERVED                                |
| 3                                                                                                                   | (3)  | BITSTRING  | 1   | SSCIFLG2   | FLAGS RESERVED                                |
| 4                                                                                                                   | (4)  | ADDRESS    | 4   | SSCIINTP   | ADDRESS INTERNAL TEXT OF JCL STMT             |
| 8                                                                                                                   | (8)  | ADDRESS    | 4   | SSCISUBS   | ADDRESS OF FIRST SUBSYS LEN/PARM              |
| 12                                                                                                                  | (C)  | SIGNED     | 2   | SSCIMLEN   | MAX LENGTH OF MESSAGE                         |
| 14                                                                                                                  | (E)  | SIGNED     | 2   | SSCINPRM   | NUMBER OF LENGTH/PARM PAIRS IN SUBSYSTEM DATA |
| 16                                                                                                                  | (10) | ADDRESS    | 4   | SSCIMPTR   | POINTER TO MESSAGE AREA                       |
| 20                                                                                                                  | (14) | CHARACTER  | 4   | SSCISSNM   | SUBSYSTEM NAME                                |
| 20                                                                                                                  | (14) | X'18'      | 0   | SSCISIZE   | **_SSCIBGN" EXTENSION LENGTH                  |
| Comment                                                                                                             |      |            |     |            |                                               |
| ERROR MESSAGE PROCESSING                                                                                            |      |            |     |            |                                               |
| - FIELD SSCIMPTR POINTS TO A MESSAGE AREA CREATED BY THE CALLER IN WHICH THE SUBSYSTEM IS TO RETURN ERROR MESSAGES. |      |            |     |            |                                               |
| - EACH MESSAGE AREA CONSISTS OF A 2 BYTE LENGTH FOLLOWED BY A MESSAGE TEXT AREA OF LENGTH DEFINED IN SSCIMLEN.      |      |            |     |            |                                               |
| - A MESSAGE IS TO BE RETURNED WHEN A NON-ZERO SSOBRETN IS RETURNED BY THE SUBSYSTEM.                                |      |            |     |            |                                               |
| End of Comment                                                                                                      |      |            |     |            |                                               |
| 20                                                                                                                  | (14) | X'18'      | 0   | SSOBLN19   | "SSOBHSIZ+SSCISIZE" TOTOAL SSOB LENGTH        |

**SSCI Cross Reference**

| <b>Name</b> | <b>Hex<br/>Offset</b> | <b>Hex<br/>Value</b> |
|-------------|-----------------------|----------------------|
| SSCIBGN     | 0                     | 0                    |
| SSCICMOD    | 0                     | 4                    |
| SSCIFLG1    | 2                     |                      |
| SSCIFLG2    | 3                     |                      |
| SSCIINTP    | 4                     |                      |
| SSCILEN     | 0                     |                      |
| SSCIMLEN    | C                     |                      |
| SSCIMPTR    | 10                    |                      |
| SSCINPRM    | E                     |                      |
| SSCIPERR    | 0                     | 24                   |
| SSCIRTOK    | 0                     | 0                    |
| SSCISIZE    | 14                    | 18                   |
| SSCISSNM    | 14                    |                      |
| SSCISUBS    | 8                     |                      |
| SSCISYNC    | 0                     | 8                    |
| SSCISYNT    | 0                     | C                    |
| SSOBCONV    | 0                     | 26                   |
| SSOBLN19    | 14                    | 18                   |



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## SSCM Programming Interface information

Programming Interface information

SSCM

End of Programming Interface information

## SSCM Heading Information

**Common Name:** SSOB EXTENSION FOR COMMAND PROCESSING EXIT  
**Macro ID:** IEFSSCM  
**DSECT Name:** SSCM  
**Owning Component:** INITIATOR/TERMINATOR (SC1B6)  
**Eye-Catcher ID:** SSCM  
 Offset: 12  
 Length: 4  
**Storage Attributes:** Subpool: USER SUBPOOL AND KEY  
 Key: USER SUBPOOL AND KEY  
**Size:** 20 BYTES FOR SSOB PLUS 88 BYTES FOR SSCM  
**Created by:** IEE0403D  
**Pointed to by:** SSOBINDV FIELD OF THE SSOB DATA AREA  
**Serialization:** NONE  
**Function:** PARAMETER LIST FOR THE SUBSYSTEM COMMAND EXIT.

## SSCM Map

| Offsets                                    |      |            |     |              |                                                                                              |
|--------------------------------------------|------|------------|-----|--------------|----------------------------------------------------------------------------------------------|
| Dec                                        | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                  |
| 0                                          | (0)  | STRUCTURE  | 0   |              |                                                                                              |
| 0                                          | (0)  | X'A'       | 0   | SSOBCMND     | "10" CMD PROCESSING FUNCTION ID (SSOBFUNC)                                                   |
| Comment                                    |      |            |     |              |                                                                                              |
| COMMAND PROCESSING RETURN CODES (SSOBRETN) |      |            |     |              |                                                                                              |
| End of Comment                             |      |            |     |              |                                                                                              |
| 0                                          | (0)  | X'0'       | 0   | SSCMSCMD     | "0" SVC 34 SHOULD PROCESS THIS COMMAND                                                       |
| 0                                          | (0)  | X'4'       | 0   | SSCMSUBC     | "4" FUNCTION 10: SUBSYSTEM HAS PROCESSED THE COMMAND                                         |
| 0                                          | (0)  | X'8'       | 0   | SSCMIMSG     | "8" FUNCTION 10: SUBSYSTEM COULD NOT EXECUTE THE COMMAND - SVC 34 ISSUES MESSAGE             |
| 0                                          | (0)  | X'0'       | 0   | SSCMBGN      | ***                                                                                          |
| 0                                          | (0)  | ADDRESS    | 2   | SSCMLEN      | COMMAND EXTENSION LENGTH                                                                     |
| 2                                          | (2)  | BITSTRING  | 1   | SSCMRESV     | RESERVED                                                                                     |
| 3                                          | (3)  | ADDRESS    | 1   | SSCMVRSN     | VERSION LEVEL                                                                                |
| 3                                          | (3)  | X'1'       | 0   | SSCM211      | "1" VERSION LEVEL FOR OS/VS2 JBB2110                                                         |
| 3                                          | (3)  | X'2'       | 0   | SSCM220      | "2" VERSION LEVEL FOR OS/VS2 JBB2220                                                         |
| 3                                          | (3)  | X'3'       | 0   | SSCM410      | "3" VERSION LEVEL FOR HBB4410                                                                |
| 3                                          | (3)  | X'4'       | 0   | SSCM520      | "4" VERSION LEVEL FOR HBB5520                                                                |
| 3                                          | (3)  | X'4'       | 0   | SSCMVRID     | "SSCM520" VERSION LEVEL VALUE                                                                |
| 4                                          | (4)  | ADDRESS    | 4   | SSCMBUFF     | COMMAND BUFFER ADDRESS                                                                       |
| 8                                          | (8)  | SIGNED     | 4   | SSCMSCID     | COMMAND SOURCE - CONSOLE ID OR 0 - ASID OF TIME-SHARING USER - CMD AUTHORITY OF INPUT STREAM |
| 12                                         | (C)  | CHARACTER  | 4   | SSCMACRN     | CONTROL BLOCK ACRONYM - 'SSCM'                                                               |
| 16                                         | (10) | BITSTRING  | 2   | SSCMAUTH (0) | COMMAND AUTHORITY                                                                            |
| 16                                         | (10) | BITSTRING  | 1   | SSCMAUTA     | COMMAND AUTHORITY BYTE 1                                                                     |
|                                            |      | 1... ....  |     | SSCMSYS      | "X'80" COMMAND GROUP 1 (SYS)                                                                 |
|                                            |      | .1. ....   |     | SSCMIO       | "X'40" COMMAND GROUP 2 (I/O)                                                                 |
|                                            |      | ..1. ....  |     | SSCMCONS     | "X'20" COMMAND GROUP 3 (CONS)                                                                |
| 17                                         | (11) | BITSTRING  | 1   | SSCMAUTB     | COMMAND AUTHORITY BYTE 2                                                                     |
| 18                                         | (12) | BITSTRING  | 1   | SSCMDISP     | DISPOSITION FLAGS                                                                            |
|                                            |      | 1... ....  |     | SSCMMC       | "X'80" MASTER AUTHORITY                                                                      |
|                                            |      | .1. ....   |     | SSCMNMCS     | "X'40" NON MCS CONSOLE ID                                                                    |
|                                            |      | ..1. ....  |     | SSCMC        | "X'20" COMMAND FROM MCS CONSOLE                                                              |
|                                            |      | ...1 ....  |     | SSCMDSPR     | "X'10" COMMAND ISSUED BEFORE RACF ACTIVE                                                     |
|                                            |      | .... 1111  |     | SSCMXR2      | "X'0F" RESERVED                                                                              |



| Offsets |      |            |     |            |                                                                                                               |
|---------|------|------------|-----|------------|---------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                   |
| 19      | (13) | CHARACTER  | 1   | SSCMBLEN   | COMMAND BUFFER LENGTH                                                                                         |
| 20      | (14) | CHARACTER  | 4   | SSCMPPTOK  | PROGRAM TOKEN                                                                                                 |
|         |      | 1... ....  |     | SSCMPTHR   | "X'80" PROGRAM TOKEN EXISTS                                                                                   |
| 24      | (18) | ADDRESS    | 4   | SSCMOLIP   | If SSCMSYMS = ON, address of structure SSCMOLIB (original command text before symbolic variable substitution) |
| 28      | (1C) | ADDRESS    | 4   | SSCMUTOK   | POINTER TO UTOKEN                                                                                             |
| 32      | (20) | SIGNED     | 2   | SSCMULTH   | UTOKEN LENGTH                                                                                                 |
| 34      | (22) | BITSTRING  | 1   | SSCMFLG    | MISC FLAGS                                                                                                    |
|         |      | 1... ....  |     | SSCMRTDM   | "X'80" ROUTED BY ROUTE *ALL COMMAND                                                                           |
|         |      | .1.. ....  |     | SSCMSYMS   | "X'40" Command text was changed by substitution of symbolic variables                                         |
|         |      | ..1. ....  |     | SSCMIDOK   | "X'20" SSCMOCID valid                                                                                         |
| 35      | (23) | CHARACTER  | 1   | SSCMRES3   | RESERVED                                                                                                      |
| 36      | (24) | SIGNED     | 4   | SSCMCNID   | 4-BYTE CONSOLE ID                                                                                             |
| 40      | (28) | CHARACTER  | 8   | SSCMSCNM   | CONSOLE NAME                                                                                                  |
| 48      | (30) | ADDRESS    | 4   | SSCMCTXT   | POINTER TO COMMAND TEXT                                                                                       |
| 52      | (34) | SIGNED     | 2   | SSCMCLEN   | COMMAND TEXT LENGTH                                                                                           |
| 54      | (36) | CHARACTER  | 8   | SSCMCART   | COMMAND AND RESPONSE TOKEN                                                                                    |
| 62      | (3E) | CHARACTER  | 2   | SSCMRES4   | RESERVED                                                                                                      |
| 64      | (40) | ADDRESS    | 4   | SSCMCXPT   | ADDRESS OF COMMAND SENSITIVE AREA                                                                             |

Comment

THIS AREA SHOULD ALWAYS BE AT THE BOTTOM OF THE SSCM.  
SSCMXPT SHOULD BE USED TO LOCATE THE COMMAND SENSITIVE AREA

End of Comment

|    |      |           |    |          |                                       |
|----|------|-----------|----|----------|---------------------------------------|
| 68 | (44) | CHARACTER | 20 | SSCMCMDX | COMMAND SENSITIVE AREA FOR REPLIES    |
| 68 | (44) | X'58'     | 0  | SSCMSIZE | "*-SSCMBGN" COMMAND EXTENSION LENGTH  |
| 68 | (44) | X'58'     | 0  | SSOBLEN7 | "SSOBHSIZ+SSCMSIZE" TOTAL SSOB LENGTH |

Comment

COMMAND SENSITIVE AREA FOR REPLY COMMAND

End of Comment

|    |      |           |   |          |                                                   |
|----|------|-----------|---|----------|---------------------------------------------------|
| 68 | (44) | BITSTRING | 1 | SSCMCVRB | COMMAND VERB (X'85')                              |
| 69 | (45) | CHARACTER | 3 | SSCMRES6 | RESERVED                                          |
| 72 | (48) | ADDRESS   | 4 | SSCMRTCB | TCB OF WTOR ISSUER                                |
| 76 | (4C) | SIGNED    | 2 | SSCMRASI | ASID OF WTOR ISSUER                               |
| 78 | (4E) | SIGNED    | 2 | SSCMRTXT | OFFSET TO REPLY TEXT                              |
| 80 | (50) | CHARACTER | 1 | SSCMRFLG | SYSPLEX REPLY FLAGS                               |
|    |      | 1... .... |   | SSCMRSEC | "X'80" REPLY TO A SECURITY WTOR (ROUTE CODE OF 9) |
|    |      | .111 1111 |   | SSCMRRES | "X'7F" RESERVED                                   |
| 81 | (51) | CHARACTER | 3 | SSCMRES5 | RESERVED                                          |
| 84 | (54) | SIGNED    | 4 | SSCMOCID | Originating console id (used in auth checking)    |

#### Offsets

| Dec | Hex | Type/Value | Len | Name (Dim)   | Description                |
|-----|-----|------------|-----|--------------|----------------------------|
| 0   | (0) | STRUCTURE  | 0   | SSCMOLIB     | Original command text      |
| 0   | (0) | SIGNED     | 2   | SSCMOMDL     | Length of the command text |
| 2   | (2) | CHARACTER  | 1   | SSCMOMDI (0) | Command image text         |
|     |     | 1... .1.1  |     | SSCMVRPL     | "X'85" VERB CODE FOR REPLY |

## SSCM Cross Reference

### SSCM Cross Reference

| Name      | Hex Offset | Hex Value |
|-----------|------------|-----------|
| SSCMACRN  | C          |           |
| SSCMAUTA  | 10         |           |
| SSCMAUTB  | 11         |           |
| SSCMAUTH  | 10         |           |
| SSCMBGN   | 0          | 0         |
| SSCMBLEN  | 13         |           |
| SSCMBUFF  | 4          |           |
| SSCMC     | 12         | 20        |
| SSCMCART  | 36         |           |
| SSCMCLEN  | 34         |           |
| SSCMCMDX  | 44         |           |
| SSCMCNID  | 24         |           |
| SSCMCONS  | 10         | 20        |
| SSCMCTXT  | 30         |           |
| SSCMCVRB  | 44         |           |
| SSCMCXPT  | 40         |           |
| SSCMDISP  | 12         |           |
| SSCMDSPR  | 12         | 10        |
| SSCMFLG   | 22         |           |
| SSCMIDOK  | 22         | 20        |
| SSCMIMSG  | 0          | 8         |
| SSCMIO    | 10         | 40        |
| SSCMLEN   | 0          |           |
| SSCMMC    | 12         | 80        |
| SSCMNMCS  | 12         | 40        |
| SSCMOCID  | 54         |           |
| SSCMOLIB  | 0          |           |
| SSCMOLIP  | 18         |           |
| SSCMOMDI  | 2          |           |
| SSCMOMDL  | 0          |           |
| SSCMPTHR  | 14         | 80        |
| SSCMP TOK | 14         |           |
| SSCMRASI  | 4C         |           |
| SSCMRESV  | 2          |           |
| SSCMRES3  | 23         |           |
| SSCMRES4  | 3E         |           |
| SSCMRES5  | 51         |           |
| SSCMRES6  | 45         |           |
| SSCMRFLG  | 50         |           |
| SSCMRRES  | 50         | 7F        |
| SSCMRSEC  | 50         | 80        |
| SSCMRTCB  | 48         |           |
| SSCMRTDM  | 22         | 80        |
| SSCMRTXT  | 4E         |           |
| SSCMSCID  | 8          |           |
| SSCMSCMD  | 0          | 0         |
| SSCMSCNM  | 28         |           |
| SSCMSIZE  | 44         | 58        |
| SSCMSUBC  | 0          | 4         |
| SSCMSYMS  | 22         | 40        |
| SSCMSYS   | 10         | 80        |
| SSCMULTH  | 20         |           |
| SSCMUTOK  | 1C         |           |
| SSCMVRID  | 3          | 4         |
| SSCMVRPL  | 0          | 85        |
| SSCMVRSN  | 3          |           |
| SSCMXR2   | 12         | F         |
| SSCM211   | 3          | 1         |
| SSCM220   | 3          | 2         |
| SSCM410   | 3          | 3         |
| SSCM520   | 3          | 4         |
| SSOBCMND  | 0          | A         |
| SSOBLEN7  | 44         | 58        |

## SSCS Heading Information

**Common Name:** SSOB Extension for Cancel/Status Function  
**Macro ID:** IEFSSCS  
**DSECT Name:** SSCS  
**Owning Component:** TSO/E Scheduler (28502)  
**Eye-Catcher ID:** None  
**Offset:** N/A  
**Subpool and Key:** User subpool and key  
**Size:** 28 bytes for SSOB plus 40 bytes  
**Created by:** IKJEFF54, IKJEFF49, IKJEFF52  
**Pointed to by:** SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** Parameter list for the subsystem interface.

### SSCS Map

| Offsets                                |      |            |     |            |                                                                                                                                                                     |
|----------------------------------------|------|------------|-----|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec                                    | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                                         |
| 0                                      | (0)  | STRUCTURE  | 0   |            |                                                                                                                                                                     |
| 0                                      | (0)  | X'2'       | 0   | SSOBCANC   | "2" CANCEL FUNCTION ID (SSOBFUNC)                                                                                                                                   |
| 0                                      | (0)  | X'3'       | 0   | SSOBBSTAT  | "3" JOB STATUS FUNCTION ID (SSOBFUNC)                                                                                                                               |
| Comment                                |      |            |     |            |                                                                                                                                                                     |
| CANCEL/STATUS RETURN CODES (SSOBBRETN) |      |            |     |            |                                                                                                                                                                     |
| End of Comment                         |      |            |     |            |                                                                                                                                                                     |
| 0                                      | (0)  | X'0'       | 0   | SSCSRTOK   | "0" CANCEL/STATUS COMPLETED                                                                                                                                         |
| 0                                      | (0)  | X'4'       | 0   | SSCSNOJB   | "4" JOB NAME NOT FOUND                                                                                                                                              |
| 0                                      | (0)  | X'8'       | 0   | SSCSBADI   | "8" INVALID JOBNAME/JOB ID COMBINATION                                                                                                                              |
| 0                                      | (0)  | X'C'       | 0   | SSCSNCAN   | "12" JOB NOT CANCELLED - DUPLICATE JOB NAMES AND NO JOB ID GIVEN                                                                                                    |
| 0                                      | (0)  | X'10'      | 0   | SSCSMALL   | "16" STATUS ARRAY TOO SMALL                                                                                                                                         |
| 0                                      | (0)  | X'14'      | 0   | SSCSOUTP   | "20" JOB NOT CANCELLED-JOB ON OUTPUT QUEUE                                                                                                                          |
| 0                                      | (0)  | X'18'      | 0   | SSCSYNTX   | "24" JOBID WITH INVALID SYNTAX FOR SYBSYSTEM YM06023                                                                                                                |
| 0                                      | (0)  | X'1C'      | 0   | SSCSICAN   | "28" INVALID CANCEL REQUEST - CANNOT CANCEL AN ACTIVE TSO USER OR STARTED TASK / TSO USER MAY NOT CANCEL THE ABOVE JOBS UNLESS THEY ARE ON AN OUTPUT QUEUE. YM06036 |
| 0                                      | (0)  | X'20'      | 0   | SSCSAUTH   | "32" THE USER IS NOT AUTHORIZED TO ACCESS THE JOB. ***                                                                                                              |
| 0                                      | (0)  | X'0'       | 0   | SSCSBGN    |                                                                                                                                                                     |
| 0                                      | (0)  | ADDRESS    | 2   | SSCSLEN    | CANCEL/STATUS EXTENSION LENGTH                                                                                                                                      |
| 2                                      | (2)  | BITSTRING  | 1   | SSCSFLGS   | USER SELECTION FLAGS                                                                                                                                                |
|                                        |      | 1... ....  |     | SSCSUSID   | "X'80" USERID IS IN JOBNAME FIELD                                                                                                                                   |
|                                        |      | .1.. ....  |     | SSCSOUT    | "X'40" CANCEL THE JOBS OUTPUT Y02886                                                                                                                                |
| Comment                                |      |            |     |            |                                                                                                                                                                     |
| EQU X'3F' RESERVED FLAGS               |      |            |     |            |                                                                                                                                                                     |
| End of Comment                         |      |            |     |            |                                                                                                                                                                     |
| 3                                      | (3)  | BITSTRING  | 1   | SSCSULEN   | USERID LENGTH                                                                                                                                                       |
| 4                                      | (4)  | CHARACTER  | 8   | SSCSJOBN   | JOB NAME                                                                                                                                                            |
| 12                                     | (C)  | CHARACTER  | 8   | SSCSJOBI   | JOB ID OR BLANKS                                                                                                                                                    |
| 20                                     | (14) | SIGNED     | 2   | SSCSDIMP   | SET BY CALLER TO INDICATE SIZE OF ARRAY AVAILABLE TO SUBSYSTEM TO STORE RESULTS IN                                                                                  |
| 22                                     | (16) | SIGNED     | 2   | SSCSDIMR   | SET BY SUBSYSTEM TO INDICATE SIZE OF ARRAY USED, OR NEEDED IF NOT ENOUGH IS AVAILABLE                                                                               |

## SSCS Map

| Offsets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |            |     |              |                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-----|--------------|---------------------------------------------------------------------------------------|
| Dec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                           |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |            |     |              |                                                                                       |
| <p>SSCSARAY MAPS AN ELEMENT OF AN ARRAY GOTTEN BY THE CALLER FOR THE SUBSYSTEM TO RETURN RESULTS IN. IF MORE THAN ONE ELEMENT EXISTS, ADDRESSABILITY TO THIS ARRAY MUST BE UPDATED BY THE ELEMENT SIZE (SSCSELSZ). THE TOTAL ARRAY SPACE USED FOR JOB STATUS REPLIES FROM THE SUBSYSTEM (ARRAY ELEMENT SIZE IN BYTES TIMES THE NUMBER OF ELEMENTS) MUST BE INDICATED IN SSCSDIMR. MESSAGES MUST FOLLOW THE LAST SSCSARAY ELEMENT USED FOR JOB STATUS.</p>                                                                                                                                                                                                                                                                                                                                                                                    |      |            |     |              |                                                                                       |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |            |     |              |                                                                                       |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (18) | CHARACTER  | 16  | SSCSARAY (0) |                                                                                       |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (18) | X'18'      | 0   | SSCSARBG     | ***                                                                                   |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (18) | CHARACTER  | 8   | SSCSARID     | JOB IDENTIFIER                                                                        |
| 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (20) | BITSTRING  | 1   | SSCSFLG1     | FLAGS SET BY SUBSYSTEM                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      | 1... ....  |     | SSCSJACT     | "X'80" JOB IS CURRENTLY ACTIVE (EXECUTING AFTER BEING GIVEN CONTROL BY THE INITIATOR) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      | .1.. ....  |     | SSCSEXCQ     | "X'40" JOB IS WAITING FOR EXECUTION (ON A PRE-EXECUTION QUEUE)                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      | ..1. ....  |     | SSCSOUTQ     | "X'20" JOB IS ON OUTPUT QUEUE                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      | ...1 ....  |     | SSCSHOLD     | "X'10" JOB IS HELD IN ITS CURRENT QUEUE                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      | .... 1..   |     | SSCSSECL     | "X'08" JOB HAS A SECOND LEVEL MESSAGE                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      | .... .1..  |     | SSCSNJEA     | "X'04" JOB ACTIVE IN NJE                                                              |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |            |     |              |                                                                                       |
| EQU X'03' RESERVED FLAGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |            |     |              |                                                                                       |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |            |     |              |                                                                                       |
| 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (21) | CHARACTER  | 1   | SSCSUJOB     | JOBNAME CHARACTER RETURNED BY SUBSYSTEM FOR USERID AS JOBNAME                         |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (22) | CHARACTER  | 2   | SSCSRSV2     | RESERVED                                                                              |
| 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (24) | ADDRESS    | 4   | SSCSMPTR     | POINTER TO MESSAGE RETURNED IN ARRAY                                                  |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |            |     |              |                                                                                       |
| <p>THE SECOND LEVEL MESSAGE AREA IS MAPPED BY A MULTI-LEVEL PUTLINE OUTPUT LINE DESCRIPTOR (OLD). THE FIRST 9 BYTES OF THE FIRST OR ONLY MESSAGE SEGMENT ARE RESERVED FOR THE INSERTION OF A MESSAGE ID BY THE CALLER. ONE TO 62 BYTES OF MESSAGE TEXT MAY BE PROVIDED BY THE SUBSYSTEM. A MAPPING OF THE OLD FORMAT NEEDED FOLLOWS.</p> <p>SSCSMPTR -&gt; ONE TSO PUTLINE OUTPUT LINE DESCRIPTOR (OLD)</p> <p>+0 0 (NO OTHER OLD)</p> <p>+4 NUMBER OF MESSAGE SEGMENTS</p> <p>+8 PTR TO FIRST MESSAGE SEGMENT</p> <p>+ . PTR TO NTH MESSAGE SEGMENT</p> <p>..... MESSAGE SEGMENT FORMAT.....</p> <p>+0 TOTAL LENGTH OF MSG SEGMENT (INCLUDING THIS FIELD)</p> <p>+2 0 IF FIRST SEGMENT, OR OFFSET FOR INSERT IN FIRST</p> <p>+4 10 BLANKS FOR MSG ID (ONLY IN FIRST SEGMENT)</p> <p>+D MESSAGE TEXT (1-62 BYTES TOTAL FOR ALL SEGMENTS)</p> |      |            |     |              |                                                                                       |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |            |     |              |                                                                                       |
| 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (24) | X'10'      | 0   | SSCSELSZ     | **-"SSCSARAY" ARRAY ELEMENT SIZE                                                      |
| 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (24) | X'28'      | 0   | SSCSIZE      | **-"SSCSBGN" CANCEL/STATUS EXTENSION LENGTH                                           |
| 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (24) | X'28'      | 0   | SSOBLN2      | "SSOBHSIZ+SSCSIZE" TOTAL SSOB LENGTH                                                  |

## SSCS Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| SSCSARAY | 18            |              |
| SSCSARBG | 18            | 18           |
| SSCSARID | 18            |              |
| SSCSAUTH | 0             | 20           |
| SSCSBADI | 0             | 8            |
| SSCSBGN  | 0             | 0            |
| SSCSCOUT | 2             | 40           |
| SSCSDIMP | 14            |              |
| SSCSDIMR | 16            |              |
| SSCSELSZ | 24            | 10           |
| SSCSEXCQ | 20            | 40           |
| SSCSFLGS | 2             |              |
| SSCSFLG1 | 20            |              |
| SSCSHOLD | 20            | 10           |
| SSCSICAN | 0             | 1C           |
| SSCSIZE  | 24            | 28           |
| SSCSJACT | 20            | 80           |
| SSCSJOBI | C             |              |
| SSCSJOBN | 4             |              |
| SSCSLEN  | 0             |              |
| SSCSMALL | 0             | 10           |
| SSCSMPTR | 24            |              |
| SSCSNCAN | 0             | C            |
| SSCSNJEA | 20            | 4            |
| SSCSNOJB | 0             | 4            |
| SSCSOUTP | 0             | 14           |
| SSCSOUTQ | 20            | 20           |
| SSCSRSV2 | 22            |              |
| SSCSRTOK | 0             | 0            |
| SSCSSECL | 20            | 8            |
| SSCSUJOB | 21            |              |
| SSCSULEN | 3             |              |
| SSCSUSID | 2             | 80           |
| SSCSYNTX | 0             | 18           |
| SSOBCANC | 0             | 2            |
| SSOBLN2  | 24            | 28           |
| SSOBSTAT | 0             | 3            |



## SSCU Heading Information

**Common Name:** SSOB Extension for Common Unallocation/JES3 Exit  
**Macro ID:** IEFSSCU  
**DSECT Name:** SSCU  
**Owning Component:** Allocation/unallocation (SC1B4)  
**Subpool and Key:** User subpool and key  
**Size:** 20 bytes for SSOB plus 24 bytes for SSCU  
**Created by:** IEFAB4A0  
**Pointed to by:** SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** Parameter list for the subsystem interface.

### SSCU Map

| Offsets |      |            |     |            |                                                                                               |
|---------|------|------------|-----|------------|-----------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                   |
| 0       | (0)  | STRUCTURE  | 24  | SSCU       | BEGINNING COMMON UNALLOCATION SSOB EXTENSION                                                  |
| 0       | (0)  | SIGNED     | 2   | SSCULEN    | LENGTH OF SSCU                                                                                |
| 2       | (2)  | BITSTRING  | 1   | SSCUFLGS   | COMMON UNALLOCATION FLAGS                                                                     |
|         |      | 1... ....  |     | SSCULSCL   | THIS IS THE LAST CALL FOR THE STEP, SET ON FOR EACH DD BEING UNALLOCATED AT STEP UNALLOCATION |
|         |      | .111 1111  |     | SSCURSVF   | RESERVED FLAGS                                                                                |
| 3       | (3)  | BITSTRING  | 1   | SSCURSV0   | RESERVED                                                                                      |
| 4       | (4)  | ADDRESS    | 4   | SSCUPSTN   | PTR TO STEP NUMBER                                                                            |
| 8       | (8)  | ADDRESS    | 4   | SSCUPDDN   | PTR TO DDNAME                                                                                 |
| 12      | (C)  | ADDRESS    | 4   | SSCUPRPN   | PTR TO RELATIVE POSITION NUMBER                                                               |
| 16      | (10) | SIGNED     | 4   | SSCURSV2   | RESERVED                                                                                      |
| 20      | (14) | SIGNED     | 4   | SSCURSV1   | RESERVED                                                                                      |

### SSCU Constants

| Len | Type    | Value | Name     | Description         |
|-----|---------|-------|----------|---------------------|
| 2   | DECIMAL | 25    | SSOBCUCD | COMMON UNALLOCATION |

### SSCU Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| SSCU     | 0          |           |
| SSCUFLGS | 2          |           |
| SSCULEN  | 0          |           |
| SSCULSCL | 2          | 80        |
| SSCUPDDN | 8          |           |
| SSCUPRPN | C          |           |
| SSCUPSTN | 4          |           |
| SSCURSVF | 2          | 7F        |
| SSCURSV0 | 3          |           |
| SSCURSV1 | 14         |           |
| SSCURSV2 | 10         |           |





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## SSCVT Programming Interface information

Programming Interface information

### SSCVT

**ONLY** the following fields are part of the programming interface information:

- SSCTSNAME
- SSCTSSID

End of Programming Interface information

## SSCVT Heading Information

**Common Name:** Subsystem Communications Vector Table

**Macro ID:** IEFJSCVT

**DSECT Name:** SSCT

**Owning Component:** Subsystem Interface (SC1B6)

**Eye-Catcher ID:** SSCT

Offset: 0

Length: 4 bytes

**Storage Attributes:** Main Storage: No

Virtual Storage: Yes

Auxiliary Storage: Yes

Subpool: 241

Key: 0

Data Space: No

Residency: BELOW

**Size:** 36 bytes (decimal)

**Created by:** Subsystem Interface

**Pointed to by:** - JESSCT field of the JESCT data area

- SSCTSCTA field of the SSCVT data area

**Serialization:** The SSCVT should be accessed only through the services provided by the IEFSSI macro.

**Function:** Maps information defining a subsystem

## SSCVT Map

| Offsets |      |            |     |              |                                                                            |
|---------|------|------------|-----|--------------|----------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                |
| 0       | (0)  | STRUCTURE  | 0   | SSCT         |                                                                            |
| 0       | (0)  | X'0'       | 0   | SSCTBEGN     | ***                                                                        |
| 0       | (0)  | CHARACTER  | 4   | SSCTID       | CONTROL BLOCK IDENTIFIER                                                   |
| 4       | (4)  | ADDRESS    | 4   | SSCTSCTA     | PTR TO NEXT SSCVT OR ZERO                                                  |
| 8       | (8)  | CHARACTER  | 4   | SSCTSNAM     | SUBSYSTEM NAME                                                             |
| 12      | (C)  | BITSTRING  | 1   | SSCTFLG1     | FLAGS                                                                      |
|         |      | 1... ....  |     | SSCTSFOR     | "X'80" SERIAL FIB OPERATIONS REQUIRED                                      |
|         |      | .1.. ....  |     | SSCTUPSS     | "X'40" USE PRIMARY SUBSYSTEM'S SERVICES FOR THIS SUBSYSTEM (E.G. SYSOUT)   |
|         |      | ..1. ....  |     | SSCTARDR     | "X'20" Subsystem supports Dynamic Allocation of a special internal reader. |
| 13      | (D)  | BITSTRING  | 1   | SSCTSSID     | SUBSYSTEM IDENTIFIER. SET BY SUBSYSTEM FIRST TIME IT IS INVOKED AFTER IPL  |
|         |      | .... ....  |     | SSCTUNKN     | "X'00" UNKNOWN SUBSYSTEM ID                                                |
|         |      | .... ..1.  |     | SSCTJES2     | "X'02" JES2 SUBSYSTEM ID                                                   |
|         |      | .... ..11  |     | SSCTJES3     | "X'03" JES3 SUBSYSTEM ID                                                   |
| 14      | (E)  | BITSTRING  | 1   | SSCTRSV1 (2) | RESERVED                                                                   |
| 16      | (10) | ADDRESS    | 4   | SSCTSSVT     | SUBSYSTEM VECTOR TABLE POINTER                                             |
| 20      | (14) | SIGNED     | 4   | SSCTSUSE     | RESERVED FOR SUBSYSTEM USAGE                                               |
| 24      | (18) | ADDRESS    | 4   | SSCTSUN      | HASH TABLE SYNONYM POINTER                                                 |
| 28      | (1C) | SIGNED     | 4   | SSCTSUS2     | RESERVED FOR SUBSYSTEM USAGE                                               |
| 32      | (20) | SIGNED     | 4   | SSCTRSV3     | RESERVED                                                                   |
| 32      | (20) | X'24'      | 0   | SSCTSIZ      | ** -SSCTBEGN" SSCVT LENGTH                                                 |

## SSCVT Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| SSCT     | 0             |              |
| SSCTARDR | C             | 20           |
| SSCTBEGN | 0             | 0            |
| SSCTFLG1 | C             |              |
| SSCTID   | 0             | E2E2C3E3     |
| SSCTJES2 | D             | 2            |
| SSCTJES3 | D             | 3            |
| SSCTRSV1 | E             |              |
| SSCTRSV3 | 20            |              |
| SSCTSCTA | 4             |              |
| SSCTSFOR | C             | 80           |
| SSCTSIZE | 20            | 24           |
| SSCTSNAM | 8             |              |
| SSCTSSID | D             |              |
| SSCTSSVT | 10            |              |
| SSCTSUSE | 14            |              |
| SSCTSUS2 | 1C            |              |
| SSCTSYN  | 18            |              |
| SSCTUNKN | D             | 0            |
| SSCTUPSS | C             | 40           |



## SSDA Heading Information

**Common Name:** FUNCTIONAL EXTENSION FOR OPEN/CLOSE, CHECKPOINT/RESTART  
**Macro ID:** IEFSSDA  
**DSECT Name:** SSDA  
**Owning Component:** Initiator/terminator (SC1B6)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: User  
 Key: User  
**Size:** 20 bytes for SSOB plus 28 bytes for SSDA  
**Created by:** IGG0193K  
**Pointed to by:** SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** Parameter list for the subsystem interface.

### SSDA Map

| Offsets |      |            |     |            |                                                                                                                                              |
|---------|------|------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                  |
| 0       | (0)  | STRUCTURE  | 28  | SSDA       | DATA MANAGEMENT FUNCTION                                                                                                                     |
| 0       | (0)  | SIGNED     | 2   | SSDALEN    | LENGTH OF SSDA                                                                                                                               |
| 2       | (2)  | UNSIGNED   | 1   | SSDAVER    | MACRO VERSION NUMBER                                                                                                                         |
| 3       | (3)  | BITSTRING  | 1   | SSDARES    | RESTART FLAGS                                                                                                                                |
|         |      | 1... ....  |     | SSDAAUTO   | AUTO CHECKPOINT RESTART                                                                                                                      |
|         |      | .1.. ....  |     | SSDADEFR   | DEFERRED CHECKPOINT RESTART                                                                                                                  |
|         |      | ..11 1111  |     | *          | RESERVED                                                                                                                                     |
| 4       | (4)  | ADDRESS    | 4   | SSDABUFR   | 4K BUFFER PTR-GOTTEN BY CHECKPT AND RESTART,<br>USED BY SUBSYSTEM OR 256 BYTE PTR-GOTTEN BY<br>OPEN, USED BY SUBSYSTEM FOR OPEN VERIFICATION |
| 8       | (8)  | ADDRESS    | 4   | SSDAJFCB   | JFCB POINTER                                                                                                                                 |
| 12      | (C)  | ADDRESS    | 4   | SSDADEBP   | DEB POINTER                                                                                                                                  |
| 16      | (10) | ADDRESS    | 4   | SSDASSCM   | POINTER TO SUBSYSTEM INFORMATION                                                                                                             |
| 20      | (14) | ADDRESS    | 4   | SSDADSAB   | DSAB POINTER                                                                                                                                 |
| 24      | (18) | BITSTRING  | 1   | SSDAOCL    | OPEN/CLOSE FLAGS                                                                                                                             |
|         |      | 1... ....  |     | SSDAOPNV   | OPEN VERIFICATION                                                                                                                            |
|         |      | .1.. ....  |     | SSDALRNS   | LRECL NOT AVAILABLE, DEFAULTED BY OPEN                                                                                                       |
| 25      | (19) | CHARACTER  | 3   | SSDARSV2   | RESERVED                                                                                                                                     |

### SSDA Constants

| Len                                     | Type    | Value | Name     | Description                  |
|-----------------------------------------|---------|-------|----------|------------------------------|
| 2                                       | DECIMAL | 16    | SSOBOPEN | OPEN FUNCTION ID             |
| 2                                       | DECIMAL | 17    | SSOBCLOS | CLOSE FUNCTION ID            |
| 2                                       | DECIMAL | 18    | SSOBCKPT | CHECKPOINT FUNCTION ID       |
| 2                                       | DECIMAL | 19    | SSOBREST | RESTART FUNCTION ID          |
| Comment                                 |         |       |          |                              |
| OPEN/CLOSE, C/R RETURN CODES (SSOBRETN) |         |       |          |                              |
| End of Comment                          |         |       |          |                              |
| 4                                       | DECIMAL | 0     | SSDMOK   | REQUEST SUCCESSFUL YM02677   |
| 4                                       | DECIMAL | 4     | SSDMFAIL | REQUEST UNSUCCESSFUL YM02677 |
| Comment                                 |         |       |          |                              |
| ADDITIONAL DATA FOR THIS EXTENSION      |         |       |          |                              |
| End of Comment                          |         |       |          |                              |
| 1                                       | DECIMAL | 2     | SSDACVER | CURRENT VERSION NUMBER       |

## SSDA Cross Reference

### SSDA Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| SSDA     | 0             |              |
| SSDAAUTO | 3             | 80           |
| SSDABUFR | 4             |              |
| SSDADEBP | C             |              |
| SSDADEFR | 3             | 40           |
| SSDADSAB | 14            |              |
| SSDAJFCB | 8             |              |
| SSDALEN  | 0             |              |
| SSDALRNS | 18            | 40           |
| SSDAOCL  | 18            |              |
| SSDAOPNV | 18            | 80           |
| SSDARESF | 3             |              |
| SSDARV2  | 19            |              |
| SSDASSCM | 10            |              |
| SSDAVER  | 2             |              |

## SSDD Heading Information

**Common Name:** SSOB Extension for Change DDname/JES3 Exit  
**Macro ID:** IEFSSDD  
**DSECT Name:** SSDD  
**Owning Component:** Allocation/unallocation (SC1B4)  
**Subpool and Key:** User subpool and key  
**Size:** 20 bytes for SSOB plus 16 bytes for SSDD  
**Created by:** IEFDB4FB  
**Pointed to by:** SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** Parameter list for the subsystem interface.

### SSDD Map

| Offsets |     |            |     |            |                                        |
|---------|-----|------------|-----|------------|----------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                            |
| 0       | (0) | STRUCTURE  | 16  | SSDD       | BEGINNING CHANGE DDNAME SSOB EXTENSION |
| 0       | (0) | SIGNED     | 2   | SSDDLEN    | LENGTH OF SSDD                         |
| 2       | (2) | SIGNED     | 2   | SSDDRSV0   | RESERVED                               |
| 4       | (4) | SIGNED     | 4   | SSDDNUMB   | NUMBER OF CHANGED DDNAMES              |
| 8       | (8) | ADDRESS    | 4   | SSDDNPTR   | PTR TO DDNAME INFO                     |
| 12      | (C) | SIGNED     | 4   | SSDDRSV1   | RESERVED                               |

### SSDD Constants

| Len | Type    | Value | Name     | Description      |
|-----|---------|-------|----------|------------------|
| 2   | DECIMAL | 26    | SSOBDDCD | CHANGE DDNAME ID |





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# SSDM Programming Interface Information

Programming Interface Information

**SSDM**

End of Programming Interface Information

## SSDM Heading Information

**Common Name:** SSOB Extension for Delete Operator Messages  
**Macro ID:** IEFSSDM  
**DSECT Name:** SSDM  
**Owning Component:** Initiator/terminator (SC1B6)  
**Subpool and Key:** User subpool and key  
**Size:** 20 bytes for SSOB plus 17 bytes for SSDM  
**Created by:** IEAVXDOM, IEAVMDOM, IEAVMED2  
**Pointed to by:** SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** Parameter list for the subsystem interface.

### SSDM Map

| Offsets                                                                |      |                        |     |                     |                                                                          |
|------------------------------------------------------------------------|------|------------------------|-----|---------------------|--------------------------------------------------------------------------|
| Dec                                                                    | Hex  | Type/Value             | Len | Name (Dim)          | Description                                                              |
| 0                                                                      | (0)  | STRUCTURE              | 0   |                     |                                                                          |
| 0                                                                      | (0)  | X'E'                   | 0   | SSOBDOM             | "14" DOM FUNCTION ID (SSOBFUNC)                                          |
| Comment                                                                |      |                        |     |                     |                                                                          |
| DOM RETURN CODES (SSOBRETN) -<br>NO DOM RETURN CODES CURRENTLY DEFINED |      |                        |     |                     |                                                                          |
| End of Comment                                                         |      |                        |     |                     |                                                                          |
| 0                                                                      | (0)  | X'0'                   | 0   | SSDMBGN             | ***                                                                      |
| 0                                                                      | (0)  | ADDRESS                | 2   | SSDMLN              | DOM EXTENSION LENGTH                                                     |
| 2                                                                      | (2)  | BITSTRING<br>1... .... | 1   | SSDMFLG1<br>SSDMSND | FLAGS BYTE<br>"X'80" DOM REQUEST SHOULD BE COMMUNICATED TO OTHER SYSTEMS |
| 3                                                                      | (3)  | BITSTRING              | 1   | SSDMRES2            | RESERVED                                                                 |
| 4                                                                      | (4)  | ADDRESS                | 4   | SSDMDMCB            | DOM CONTROL BLOCK ADDRESS (DOMC SECTION OF THE DOMCB)                    |
| 8                                                                      | (8)  | ADDRESS                | 4   | SSDMDMC2            | DOM CONTROL BLOCK ADDRESS (ENTIRE DOMCB)                                 |
| 12                                                                     | (C)  | CHARACTER              | 4   | SSDMACRN            | CONTROL BLOCK ACRONYM - 'SSDM'                                           |
| 16                                                                     | (10) | BITSTRING              | 1   | SSDMVRSN            | VERSION LEVEL                                                            |
| 16                                                                     | (10) | X'1'                   | 0   | SSDMSP22            | "1" VERSION LEVEL FOR OS/VS2 JBB2220                                     |
| 16                                                                     | (10) | X'1'                   | 0   | SSDMVRID            | "SSDMSP22" VERSION LEVEL-UPDATED FOR SIZE OR INCOMPATIBLE CHANGE         |
| 16                                                                     | (10) | X'11'                  | 0   | SSDMSIZE            | **"SSDMBGN" DOM EXTENSION LENGTH                                         |
| 16                                                                     | (10) | X'11'                  | 0   | SSOBLNA             | "SSOBHSIZ+SSDMSIZE" TOTAL SSOB LENGTH                                    |

### SSDM Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| SSDMACRN | C          |           |
| SSDMBGN  | 0          | 0         |
| SSDMDMCB | 4          |           |
| SSDMDMC2 | 8          |           |
| SSDMFLG1 | 2          |           |
| SSDMLN   | 0          |           |
| SSDMRES2 | 3          |           |
| SSDMSND  | 2          | 80        |
| SSDMSIZE | 10         | 11        |
| SSDMSP22 | 10         | 1         |
| SSDMVRID | 10         | 1         |
| SSDMVRSN | 10         |           |
| SSOBDOM  | 0          | E         |
| SSOBLNA  | 10         | 11        |

## SSDR Heading Information

**Common Name:** SSOB Extension for Dynamic Device Reconfiguration  
**Macro ID:** IEFSSDR  
**DSECT Name:** SSSDR  
**Owning Component:** Dynamic Device Reconfiguration (BB1CS)  
**Subpool and Key:** User subpool and key  
**Size:** 20 bytes for SSOB plus 16 bytes for SSSDR  
**Created by:** IGFDI0  
**Pointed to by:** SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** Parameter list for the subsystem interface.

### SSDR Map

| Offsets |     |            |     |            |                                                                          |
|---------|-----|------------|-----|------------|--------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                                              |
| 0       | (0) | STRUCTURE  | 16  | SSDR       | BEGINNING SSOBDR EXTENSION                                               |
| 0       | (0) | SIGNED     | 2   | SSDRLEN    | LENGTH OF SSSDR                                                          |
| 2       | (2) | BITSTRING  | 1   | SSDRFLG1   | SSDR FLAG BYTE FOR FUNCTIONS SSOBDDR1 AND SSOBDDR2                       |
| 3       | (3) | BITSTRING  | 1   | SSDRFLG2   | SSDR FLAG BYTE FOR FUNCTIONS SSOBDDR3 AND SSOBDDR4                       |
|         |     | 1111 ....  |     | *          | RESERVED FOR SSOBDDR3                                                    |
|         |     | .... 1...  |     | SSDR4SWP   | FOR FUNCTION 4 ONLY - IF ON, SWAP SUCCESSFUL - IF OFF, SWAP UNSUCCESSFUL |
| 4       | (4) | ADDRESS    | 4   | SSDRSFRU   | PTR TO SWAP FROM UCB                                                     |
| 8       | (8) | ADDRESS    | 4   | SSDRSTOU   | PTR TO SWAP TO UCB                                                       |
| 12      | (C) | ADDRESS    | 4   | SSDRUCBL   | PTR TO JES3 UCB LIST (FULLWORD UCB ADDRESSES, ENDED BY X'FFFFFFFF')      |

### SSDR Constants

| Len | Type    | Value | Name     | Description                                |
|-----|---------|-------|----------|--------------------------------------------|
| 2   | DECIMAL | 28    | SSOBDDR1 | DDR DEVICE CANDIDATE SELECTION FUNCTION    |
| 2   | DECIMAL | 29    | SSOBDDR2 | DDR DEVICE CANDIDATE VERIFICATION FUNCTION |
| 2   | DECIMAL | 30    | SSOBDDR3 | DDR UCB SWAP NOTIFICATION FUNCTION         |
| 2   | DECIMAL | 31    | SSOBDDR4 | DDR SWAP COMPLETION FUNCTION               |

Comment

RETURN CODES FOR SSOBDDR1 FUNCTION

End of Comment

|   |         |   |          |                                            |
|---|---------|---|----------|--------------------------------------------|
| 4 | DECIMAL | 0 | SSDR1EDL | LIST OF ELIGIBLE DEVICES IS RETURNED       |
| 4 | DECIMAL | 4 | SSDR1IDL | LIST OF INELIGIBLE DEVICES IS RETURNED     |
| 4 | DECIMAL | 8 | SSDR1NOL | NO LIST RETURNED, NO MORE DEVICES ELIGIBLE |

Comment

RETURN CODES FOR SSOBDDR2 FUNCTION

End of Comment

|   |         |   |         |                                   |
|---|---------|---|---------|-----------------------------------|
| 4 | DECIMAL | 0 | SSDR2ED | CANDIDATE IS AN ELIGIBLE DEVICE   |
| 4 | DECIMAL | 4 | SSDR2ID | CANDIDATE IS AN INELIGIBLE DEVICE |



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# SSDY Programming Interface Information

Programming Interface Information

**SSDY**

End of Programming Interface Information

## SSDY Heading Information

**Common Name:** SSOB Extension for Dynamic Allocation JES3  
**Macro ID:** IEFSSDY  
**DSECT Name:** SSDY  
**Owning Component:** Allocation/Unallocation (SC1B4)  
**Eye-Catcher ID:** None  
**Subpool and Key:** User subpool and key  
**Size:** 24 bytes  
**Created by:** IEFDB413  
**Pointed to by:** SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** Parameter list for the subsystem interface.

## SSDY Map

| Offsets                                    |      |            |     |            |                                                                                                               |
|--------------------------------------------|------|------------|-----|------------|---------------------------------------------------------------------------------------------------------------|
| Dec                                        | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                   |
| 0                                          | (0)  | STRUCTURE  | 0   |            |                                                                                                               |
| 0                                          | (0)  | X'17'      | 0   | SSOBDYCD   | "23" DYNAMIC ALLOCATION FUNCTION ID (SSOBFUNC)                                                                |
| Comment                                    |      |            |     |            |                                                                                                               |
| DYNAMIC ALLOCATION RETURN CODES (SSOBRETN) |      |            |     |            |                                                                                                               |
| End of Comment                             |      |            |     |            |                                                                                                               |
| 0                                          | (0)  | X'0'       | 0   | SSDYSUCC   | "0" SUCCESSFUL                                                                                                |
| 0                                          | (0)  | X'4'       | 0   | SSDYVNMT   | "4" REQUESTED VOLUME NOT MOUNTED (VOLUME MOUNTING NOT ALLOWED)                                                |
| 0                                          | (0)  | X'8'       | 0   | SSDYVBUS   | "8" VOLUME BUSY (WAITING FOR VOLUME IS NOT ALLOWED)                                                           |
| 0                                          | (0)  | X'C'       | 0   | SSDYUNAV   | "12" REQUESTED VOLUME UNAVAILABLE (VOLUME FOUND IN THE JES3 VOLUME UNAVAILABLE TABLE)                         |
| 0                                          | (0)  | X'10'      | 0   | SSDYDBUS   | "16" REQUESTED DATA SET BUSY (WAITING FOR DATASET NOT ALLOWED)                                                |
| 0                                          | (0)  | X'14'      | 0   | SSDYNUNT   | "20" REQUESTED UNIT(S) NOT AVAILABLE (NO UNIT(S) OF TYPE AVAILABLE FOR USE)                                   |
| 0                                          | (0)  | X'18'      | 0   | SSDYNEDP   | "24" NOT ENOUGH DEVICES OF TYPE REQUESTED EXIST ON THE PROCESSOR FROM WHICH THE ALLOCATION REQUEST ORIGINATED |
| 0                                          | (0)  | X'1C'      | 0   | SSDYCNCL   | "28" REQUEST CANCELLED BY OPERATOR                                                                            |
| 0                                          | (0)  | X'0'       | 0   | SSDYBGN    | *** DYNAMIC ALLOCATION BEGINNING                                                                              |
| 0                                          | (0)  | ADDRESS    | 2   | SSDYLEN    | DYNAMIC ALLOCATION EXTENSION LENGTH                                                                           |
| 2                                          | (2)  | SIGNED     | 2   | SSDYRSV0   | RESERVED                                                                                                      |
| 4                                          | (4)  | ADDRESS    | 4   | SSDYSIOT   | POINTER TO 1ST SIOT                                                                                           |
| 8                                          | (8)  | ADDRESS    | 4   | SSDYPFLG   | POINTER TO FLAG FIELD                                                                                         |
| 12                                         | (C)  | SIGNED     | 4   | SSDYSTFL   | POINTER TO A SIOT IN ERROR                                                                                    |
| 16                                         | (10) | SIGNED     | 4   | SSDYRSV2   | RESERVED                                                                                                      |
| 20                                         | (14) | SIGNED     | 4   | SSDYRSV1   | RESERVED                                                                                                      |
| 20                                         | (14) | X'18'      | 0   | SSDYSIZE   | ** -SSDYBGN" EXTENSION LENGTH                                                                                 |
| 20                                         | (14) | X'18'      | 0   | SSOBLN10   | "SSOBHSIZ+SSDYSIZE" TOTAL SSOB LENGTH                                                                         |

**SSDY Cross Reference**

| <b>Name</b> | <b>Hex<br/>Offset</b> | <b>Hex<br/>Value</b> |
|-------------|-----------------------|----------------------|
| SSDYBGN     | 0                     | 0                    |
| SSDYCNCL    | 0                     | 1C                   |
| SSDYDBUS    | 0                     | 10                   |
| SSDYLEN     | 0                     |                      |
| SSDYNEDP    | 0                     | 18                   |
| SSDYNUNT    | 0                     | 14                   |
| SSDYPFLG    | 8                     |                      |
| SSDYRSV0    | 2                     |                      |
| SSDYRSV1    | 14                    |                      |
| SSDYRSV2    | 10                    |                      |
| SSDYSIOT    | 4                     |                      |
| SSDYSIZE    | 14                    | 18                   |
| SSDYSTFL    | C                     |                      |
| SSDYSUCC    | 0                     | 0                    |
| SSDYUNAV    | 0                     | C                    |
| SSDYVBUS    | 0                     | 8                    |
| SSDYVNMT    | 0                     | 4                    |
| SSOBDYCD    | 0                     | 17                   |
| SSOBLN10    | 14                    | 18                   |





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# SSEN Programming Interface Information

Programming Interface Information

**SSEN**

End of Programming Interface Information

## SSEN Heading Information

**Common Name:** SSOB Extension for End of Memory  
**Macro ID:** IEFSSSEN  
**DSECT Name:** SSEN  
**Owning Component:** Initiator/terminator (SC1B6)  
**Subpool and Key:** User subpool and key  
**Size:** 20 bytes for SSOB plus 16 bytes for SSEN  
**Created by:** IEFJRECM  
**Pointed to by:** SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** Parameter list for the subsystem interface.

### SSEN Map

| Offsets                               |     |            |     |            |                                                                                                                                                                                                      |
|---------------------------------------|-----|------------|-----|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec                                   | Hex | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                          |
| 0                                     | (0) | STRUCTURE  | 0   |            |                                                                                                                                                                                                      |
| 0                                     | (0) | X'8'       | 0   | SSOBEOM    | "8" EOM FUNCTION ID (SSOBFUNC)                                                                                                                                                                       |
| Comment                               |     |            |     |            |                                                                                                                                                                                                      |
| EOM RETURN CODES (SSOBRETN)           |     |            |     |            |                                                                                                                                                                                                      |
| NO EOM RETURN CODES CURRENTLY DEFINED |     |            |     |            |                                                                                                                                                                                                      |
| End of Comment                        |     |            |     |            |                                                                                                                                                                                                      |
| 0                                     | (0) | X'0'       | 0   | SSENBGN    | ***                                                                                                                                                                                                  |
| 0                                     | (0) | ADDRESS    | 2   | SSENLEN    | EOM EXTENSION LENGTH                                                                                                                                                                                 |
| 2                                     | (2) | SIGNED     | 2   | SSENRESV   | RESERVED                                                                                                                                                                                             |
| 4                                     | (4) | SIGNED     | 2   | SSENASID   | ASID OF TERMINATING MEMORY                                                                                                                                                                           |
| 6                                     | (6) | BITSTRING  | 1   | SSENFLAG   | END OF MEMORY FLAGS                                                                                                                                                                                  |
|                                       |     | 1... ....  |     | SSENSTYPE  | "X'80" ON - ABNORMAL MEMORY TERMINATION OFF-NORMAL MEMORY TERMINATION                                                                                                                                |
| 7                                     | (7) | BITSTRING  | 1   | SSENRSV1   | RESERVED                                                                                                                                                                                             |
| 8                                     | (8) | ADDRESS    | 4   | SSENJBNM   | JOBNAME LIST POINTER - EACH JOBNAME ENTRY IS 12 BYTES - 1ST 4 BYTES - PTR TO NEXT JOBNAME ENTRY (LAST ENTRY CONTAINS ZEROS IN 1ST 4 BYTES) LAST 8 BYTES - JOBNAME ASSOCIATED WITH TERMINATING MEMORY |
| 12                                    | (C) | ADDRESS    | 4   | SSENASCB   | ASCB ADDRESS OF TERMINATING MEMORY                                                                                                                                                                   |
| 12                                    | (C) | X'10'      | 0   | SSENSIZE   | **-SSENBGN" EOM EXTENSION LENGTH                                                                                                                                                                     |
| 12                                    | (C) | X'10'      | 0   | SSOBLEN5   | "SSOBHSIZ+SSENSIZE" TOTAL SSOB LENGTH                                                                                                                                                                |

### SSEN Cross Reference

| Name      | Hex Offset | Hex Value |
|-----------|------------|-----------|
| SSENASCB  | C          |           |
| SSENASID  | 4          |           |
| SSENBGN   | 0          | 0         |
| SSENFLAG  | 6          |           |
| SSENJBNM  | 8          |           |
| SSENLEN   | 0          |           |
| SSENRESV  | 2          |           |
| SSENRSV1  | 7          |           |
| SSENSIZE  | C          | 10        |
| SSENSTYPE | 6          | 80        |
| SSOBEOM   | 0          | 8         |
| SSOBLEN5  | C          | 10        |

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# SSET Programming Interface Information

Programming Interface Information

SSET

End of Programming Interface Information

## SSET Heading Information

**Common Name:** SSOB Extension for End of Task  
**Macro ID:** IEFSSSET  
**DSECT Name:** SSET  
**Owning Component:** Initiator/terminator (SC1B6)  
**Subpool and Key:** User subpool and key  
**Size:** 20 bytes for SSOB plus 16 bytes for SSET  
**Created by:** IEFJRECM, IEFJRECF  
**Pointed to by:** SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** Parameter list for the subsystem interface.

### SSET Map

| Offsets                                                                |     |            |     |            |                                                                       |
|------------------------------------------------------------------------|-----|------------|-----|------------|-----------------------------------------------------------------------|
| Dec                                                                    | Hex | Type/Value | Len | Name (Dim) | Description                                                           |
| 0                                                                      | (0) | STRUCTURE  | 0   |            |                                                                       |
| 0                                                                      | (0) | X'4'       | 0   | SSOBEOT    | "4" EOT FUNCTION ID (SSOBFUNC)                                        |
| 0                                                                      | (0) | X'32'      | 0   | SSOBFEOT   | "50" EOT FUNCTION ID (SSOBFUNC)                                       |
| Comment                                                                |     |            |     |            |                                                                       |
| EOT RETURN CODES (SSOBRETN) -<br>NO EOT RETURN CODES CURRENTLY DEFINED |     |            |     |            |                                                                       |
| End of Comment                                                         |     |            |     |            |                                                                       |
| 0                                                                      | (0) | X'0'       | 0   | SSETBGN    | ***                                                                   |
| 0                                                                      | (0) | ADDRESS    | 2   | SSETLEN    | EOT EXTENSION LENGTH                                                  |
| 2                                                                      | (2) | SIGNED     | 2   | SSETRSV0   | RESERVED                                                              |
| 4                                                                      | (4) | SIGNED     | 2   | SSETASID   | ASID OF MEMORY IN WHICH TASK WAS ACTIVE                               |
| 6                                                                      | (6) | BITSTRING  | 1   | SSETFLAG   | END OF TASK FLAGS -                                                   |
|                                                                        |     | 1... ....  |     | SSETYPE    | "X'80" ON - ABNORMAL TASK TERMINATION OFF- NORMAL<br>TASK TERMINATION |
| 7                                                                      | (7) | BITSTRING  | 1   | SSETRSV1   | RESERVED                                                              |
| 8                                                                      | (8) | ADDRESS    | 4   | SSETCBA    | ADDRESS OF TERMINATING TCB                                            |
| 12                                                                     | (C) | ADDRESS    | 4   | SSETASCB   | ASCB ADDRESS OF TERMINATING TASK'S MEMORY                             |
| 12                                                                     | (C) | X'10'      | 0   | SSETSIZE   | **-SSETBGN" EOT EXTENSION LENGTH                                      |
| 12                                                                     | (C) | X'10'      | 0   | SSOBLEND   | "SSOBHSIZ+SSETSIZE" TOTAL SSOB LENGTH                                 |

### SSET Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| SSETASCB | C          |           |
| SSETASID | 4          |           |
| SSETBGN  | 0          | 0         |
| SSETCBA  | 8          |           |
| SSETFLAG | 6          |           |
| SSETLEN  | 0          |           |
| SSETRSV0 | 2          |           |
| SSETRSV1 | 7          |           |
| SSETSIZE | C          | 10        |
| SSETYPE  | 6          | 80        |
| SSOBEOT  | 0          | 4         |
| SSOBFEOT | 0          | 32        |
| SSOBLEND | C          | 10        |

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## SSGC Programming Interface information

Programming Interface information

SSGC

End of Programming Interface information

## SSGC Heading Information

**Common Name:** SSOB functional extension for Generic Connect  
**Macro ID:** IEFSSGC  
**DSECT Name:** SSGC (when specified by user)  
**Owning Component:** Subsystem Interface (SC1B6)  
**Eye-Catcher ID:** SSGC  
 Offset: 4  
 Length: 4 bytes  
**Storage Attributes:** Subpool: User subpool  
 Key: User key  
 Residency: Any  
**Size:** 40 bytes (decimal)  
**Created by:** The invoker of IEFSSREQ  
**Pointed to by:** SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** SSOB extension used for the Generic Connect subsystem function.  
 The Generic Connect function is to be used when a subsystem's supporting address-space wishes to notify the subsystem that it is now active or inactive.

## SSGC Map

| Offsets                                 |      |            |     |             |                                 |
|-----------------------------------------|------|------------|-----|-------------|---------------------------------|
| Dec                                     | Hex  | Type/Value | Len | Name (Dim)  | Description                     |
| 0                                       | (0)  | STRUCTURE  | 0   |             |                                 |
| 0                                       | (0)  | X'49'      | 0   | SSOVBGCON   | "73" Subsystem generic connect  |
| Comment                                 |      |            |     |             |                                 |
| GENERIC CONNECT RETURN CODES (SSOBRETN) |      |            |     |             |                                 |
| End of Comment                          |      |            |     |             |                                 |
| 0                                       | (0)  | X'0'       | 0   | SSGCOK      | "0" Successful                  |
| 0                                       | (0)  | X'4'       | 0   | SSGCERR     | "4" Error occurred              |
| 0                                       | (0)  | SIGNED     | 4   | SSGCBGN (0) | Start of Generic Connect        |
| 0                                       | (0)  | ADDRESS    | 2   | SSGCLEN     | Length of extension             |
| 2                                       | (2)  | ADDRESS    | 1   |             | Reserved                        |
| 3                                       | (3)  | ADDRESS    | 1   | SSGCVBR     | Version of extension            |
| 4                                       | (4)  | CHARACTER  | 4   | SSGCID      | Extension identifier            |
| 8                                       | (8)  | ADDRESS    | 2   | SSGCFUNC    | Subfunction request             |
| 8                                       | (8)  | X'4'       | 0   | SSGCCNCT    | "4" Connect                     |
| 8                                       | (8)  | X'8'       | 0   | SSGCDSCT    | "8" Disconnect                  |
| 8                                       | (8)  | X'C'       | 0   | SSGCQURY    | "12" Query                      |
| 10                                      | (A)  | ADDRESS    | 2   | SSGCERCD    | Error code                      |
| 10                                      | (A)  | X'0'       | 0   | SSGCRQOK    | "0" Request successful          |
| 10                                      | (A)  | X'4'       | 0   | SSGCNOTC    | "4" Address-space not connected |
| 10                                      | (A)  | X'8'       | 0   | SSGCINVF    | "8" Invalid sub-function        |
| 12                                      | (C)  | BITSTRING  | 1   | SSGCTYPE    | Subsystem type                  |
|                                         |      | 1... ....  |     | SSGCCICS    | "X'80" CICS request             |
| 13                                      | (D)  | BITSTRING  | 1   |             | Reserved                        |
| 14                                      | (E)  | ADDRESS    | 2   | SSGCASID    | Address space identifier        |
| 16                                      | (10) | CHARACTER  | 8   | SSGCJBNM    | Jobname                         |
| 24                                      | (18) | CHARACTER  | 8   |             | Reserved                        |
| 32                                      | (20) | ADDRESS    | 4   | SSGCUSR1    | Subsystem use 1                 |
| 36                                      | (24) | ADDRESS    | 4   | SSGCUSR2    | Subsystem use 2                 |
| 36                                      | (24) | X'28'      | 0   | SSGCsize    | **SSGCBGN" Extension length     |

## SSGC Cross Reference

| Name      | Hex<br>Offset | Hex<br>Value |
|-----------|---------------|--------------|
| SSGCASID  | E             |              |
| SSGCBGN   | 0             |              |
| SSGCCICS  | C             | 80           |
| SSGCCNCT  | 8             | 4            |
| SSGCDST   | 8             | 8            |
| SSGCERCD  | A             |              |
| SSGCERR   | 0             | 4            |
| SSGCFUNC  | 8             |              |
| SSGCID    | 4             | E2E2C7C3     |
| SSGCINVF  | A             | 8            |
| SSGCJBNM  | 10            | 40404040     |
| SSGCLEN   | 0             |              |
| SSGCNOTC  | A             | 4            |
| SSGCOK    | 0             | 0            |
| SSGCQURY  | 8             | C            |
| SSGCRQOK  | A             | 0            |
| SSGCSIZE  | 24            | 28           |
| SSGCTYPE  | C             | 0            |
| SSGCUSR1  | 20            |              |
| SSGCUSR2  | 24            |              |
| SSGCVAR   | 3             |              |
| SSOVBGCON | 0             | 49           |





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## SSIB Programming Interface information

Programming Interface information

### SSIB

**ONLY** the following fields are part of the programming interface information:

- SSIBID
- SSIBLEN
- SSIBSSNM
- SSIBSUSE
- SSIBJBID
- SSIBSIZE

End of Programming Interface information

## SSIB Heading Information

**Common Name:** Subsystem Identification Block (SSIB)  
**Macro ID:** IEFJSSIB  
**DSECT Name:** SSIB  
**Owning Component:** Subsystem Interface (SC1B6)  
**Eye-Catcher ID:** 'SSIB'  
 Offset: 0  
 Length: 4 bytes  
**Storage Attributes:** Subpool: User's subpool  
 Key: User's key  
 Residency: Any  
**Size:** 36 bytes  
 Frequency: 1 per IEFSSREQ request  
**Created by:** Invoker of IEFSSREQ  
**Pointed to by:** SSOBSSIB field of the SSOB data area  
**Serialization:** None  
**Function:** Identifies the subsystem to which a request for services is being made. Also contains common control information passed between the requestor and the subsystem.

## SSIB Map

| Offsets |      |            |     |            |                                                                                                                           |
|---------|------|------------|-----|------------|---------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                               |
| 0       | (0)  | STRUCTURE  | 0   | SSIB       |                                                                                                                           |
| 0       | (0)  | X'0'       | 0   | SSIBEGIN   | ***                                                                                                                       |
| 0       | (0)  | CHARACTER  | 4   | SSIBID     | CONTROL BLOCK IDENTIFIER                                                                                                  |
| 4       | (4)  | ADDRESS    | 2   | SSIBLEN    | SSIB LENGTH                                                                                                               |
| 6       | (6)  | BITSTRING  | 1   | SSIBFLG1   | FLAGS                                                                                                                     |
|         |      | 1... ..    |     | SSIBPJES   | "X'80" THIS SSIB IS USED TO START THE JOB ENTRY SUBSYSTEM                                                                 |
|         |      | .1... ..   |     | SSIBNSVC   | "X'40" NO SVC INDICATOR                                                                                                   |
| 7       | (7)  | BITSTRING  | 1   | SSIBSSID   | SUBSYSTEM IDENTIFIER. SET IN IEFJSCVT BY SUBSYSTEM FIRST TIME IT IS INVOKED AFTER IPL. SET IN SSIB BY SUBSYSTEM INTERFACE |
|         |      | .... ..    |     | SSIBUNKN   | "X'00" UNKNOWN SUBSYSTEM ID                                                                                               |
|         |      | .... ..1.  |     | SSIBJES2   | "X'02" JES2 SUBSYSTEM ID                                                                                                  |
|         |      | .... ..11  |     | SSIBJES3   | "X'03" JES3 SUBSYSTEM ID                                                                                                  |
| 8       | (8)  | CHARACTER  | 4   | SSIBSSNM   | Subsystem name to which a request for services is being made                                                              |
| 12      | (C)  | CHARACTER  | 8   | SSIBJBID   | Job Identifier or Subsystem name to be verified                                                                           |
| 20      | (14) | CHARACTER  | 8   | SSIBDEST   | DEFAULT USERID FOR SYSOUT DESTINATION                                                                                     |
| 28      | (1C) | SIGNED     | 4   | SSIBRSV1   | RESERVED                                                                                                                  |
| 32      | (20) | SIGNED     | 4   | SSIBSUSE   | RESERVED FOR SUBSYSTEM USAGE                                                                                              |
| 32      | (20) | X'24'      | 0   | SSIBSIZE   | **_SSIBEGIN" SSIB LENGTH                                                                                                  |

**SSIB Cross Reference**

| <b>Name</b> | <b>Hex<br/>Offset</b> | <b>Hex<br/>Value</b> |
|-------------|-----------------------|----------------------|
| SSIB        | 0                     |                      |
| SSIBDEST    | 14                    |                      |
| SSIBEGIN    | 0                     | 0                    |
| SSIBFLG1    | 6                     |                      |
| SSIBID      | 0                     | E2E2C9C2             |
| SSIBJBID    | C                     |                      |
| SSIBJES2    | 7                     | 2                    |
| SSIBJES3    | 7                     | 3                    |
| SSIBLEN     | 4                     |                      |
| SSIBNSVC    | 6                     | 40                   |
| SSIBPJES    | 6                     | 80                   |
| SSIBRSV1    | 1C                    |                      |
| SSIBSIZE    | 20                    | 24                   |
| SSIBSSID    | 7                     |                      |
| SSIBSSNM    | 8                     |                      |
| SSIBSUSE    | 20                    |                      |
| SSIBUNKN    | 7                     | 0                    |



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## SSJI Programming Interface information

Programming Interface information

SSJI

End of Programming Interface information

## SSJI Heading Information

**Common Name:** SSOB Extension for the JES Job Information Service  
**Macro ID:** IAZSSJI  
**DSECT Name:** SSJI  
**Owning Component:** JES Common (SC141)  
**Eye-Catcher ID:** SSJI  
 Offset: 0  
 Length: 4  
**Storage Attributes:** Subpool: caller  
 Key: Any  
 Residency: Any  
**Size:** See SSJISIZE equate  
**Created by:** Caller of SSI function 'SSOBSSJI' = 71  
**Pointed to by:** SSOBINDV in the IEFSSOBH mapping macro  
**Serialization:** None required  
**Function:** Defines the SSOB extension used by authorized programs to request Job Information Service from the JES checkpoint data space.

## SSJI Map

| Offsets                         |     |            |     |            |                                                                                                                                                                        |
|---------------------------------|-----|------------|-----|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec                             | Hex | Type/Value | Len | Name (Dim) | Description                                                                                                                                                            |
| 0                               | (0) | STRUCTURE  | 0   |            |                                                                                                                                                                        |
| 0                               | (0) | X'47'      | 0   | SSOBSSJI   | "71" JES JOB INFORMATION USER SERVICE ID                                                                                                                               |
| Comment                         |     |            |     |            |                                                                                                                                                                        |
| RETURN CODE VALUES FOR SSOBRETN |     |            |     |            |                                                                                                                                                                        |
| End of Comment                  |     |            |     |            |                                                                                                                                                                        |
| 0                               | (0) | X'0'       | 0   | SSJIOK     | "0" REQUEST SUCCESSFUL                                                                                                                                                 |
| 0                               | (0) | X'4'       | 0   | SSJIEMVR   | "4" REQUEST COMPLETED WITH POSSIBLE ERRORS, VERSION AVAILABLE, SEE SSJIRETN FOR REASON CODE                                                                            |
| 0                               | (0) | X'8'       | 0   | SSJIERRU   | "8" REQUEST CANNOT BE COMPLETED DUE TO USER ERROR, NO VERSION IS AVAILABLE, SEE SSJIRETN FOR REASON CODE                                                               |
| 0                               | (0) | X'C'       | 0   | SSJIERRJ   | "12" REQUEST CANNOT BE COMPLETED, CALL LEVEL 1 SERVICE, NO VERSION IS AVAILABLE, SSJIRETN CONTAINS INTERNAL JES2 REASON CODE                                           |
| 0                               | (0) | X'10'      | 0   | SSJIPARM   | "16" THE PARAMETER LIST, IE, THE SSJI EXTENSION IS AN INVALID FORMAT - IT IS NOT AN SSJI, THE SERVICE VERSION NUMBER IS NOT SUPPORTED, OR THE SSJI IS NOT LARGE ENOUGH |
| 0                               | (0) | X'0'       | 0   | SSJIBGN    | ***                                                                                                                                                                    |
| 0                               | (0) | CHARACTER  | 4   | SSJIID     | EXTENSION IDENTIFIER                                                                                                                                                   |
| 4                               | (4) | ADDRESS    | 2   | SSJILEN    | LENGTH OF SSOB EXTENSION AREA                                                                                                                                          |
| 6                               | (6) | SIGNED     | 2   | SSJISVRN   | SERVICE VERSION NUMBER                                                                                                                                                 |
| 6                               | (6) | X'1'       | 0   | SSJISVR#   | "1" SERVICE VERSION NUMBER OF THIS LEVEL OF IAZSSJI - VERSION 4.1.0 SSJISVRN MUST BE SET TO SSJISVR#                                                                   |
| 8                               | (8) | BITSTRING  | 1   | SSJIFREQ   | FUNCTION REQUEST BYTE                                                                                                                                                  |
| 8                               | (8) | X'4'       | 0   | SSJIFOB    | "4" FUNCTION REQUEST_OBTAIN                                                                                                                                            |
| 8                               | (8) | X'8'       | 0   | SSJIFREL   | "8" FUNCTION REQUEST_RELEASE                                                                                                                                           |
| 8                               | (8) | X'C'       | 0   | SSJIFJCO   | "12" Function Jobclass_Data Obtain                                                                                                                                     |
| 8                               | (8) | X'10'      | 0   | SSJIFJCR   | "16" Function Jobclass_Data Return                                                                                                                                     |
| 8                               | (8) | X'14'      | 0   | SSJISIOM   | "20" Function SPOOL I/O: obtain control block                                                                                                                          |
| 8                               | (8) | X'18'      | 0   | SSJISIRS   | "24" Function SPOOL I/O: return storage                                                                                                                                |
| 8                               | (8) | X'1C'      | 0   | SSJICVDV   | "28" Function Convert Device ID                                                                                                                                        |
| 9                               | (9) | BITSTRING  | 3   | SSJIRSV1   | RESERVED                                                                                                                                                               |

| Offsets                                                                                                            |      |            |     |            |                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------|------|------------|-----|------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Dec                                                                                                                | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                       |
| Comment                                                                                                            |      |            |     |            |                                                                                                                                   |
| NOTE: for function codes SSJISIOM and SSJISIRS, refer to the dsect IAZSPLIO for a description of the reason codes. |      |            |     |            |                                                                                                                                   |
| End of Comment                                                                                                     |      |            |     |            |                                                                                                                                   |
| 12                                                                                                                 | (C)  | SIGNED     | 4   | SSJIRETN   | REASON CODE FOR ERROR RETURN CODE                                                                                                 |
| 12                                                                                                                 | (C)  | X'4'       | 0   | SSJIUNSF   | "4" UNSUPPORTED SUBFUNCTION REQUESTED                                                                                             |
| 12                                                                                                                 | (C)  | X'8'       | 0   | SSJI2OBT   | "8" SUCCESSIVE OBTAINS WITHOUT INTERVENING RELEASE REQUESTED                                                                      |
| 12                                                                                                                 | (C)  | X'C'       | 0   | SSJIDISA   | "12" SUBTASK DISABLED, TRY AGAIN SHORTLY                                                                                          |
| 12                                                                                                                 | (C)  | X'10'      | 0   | SSJIVINA   | "16" VERSIONING INACTIVE, ACTIVATE IT                                                                                             |
| 12                                                                                                                 | (C)  | X'14'      | 0   | SSJIOLDD   | "20" THE DATA MAY BE OBSOLETE                                                                                                     |
| 12                                                                                                                 | (C)  | X'18'      | 0   | SSJINTDS   | "24" SSJIUSER DOES NOT POINT TO A DSERV TOKEN LIST                                                                                |
| 12                                                                                                                 | (C)  | X'1C'      | 0   | SSJIUNSD   | "28" UNSUPPORTED DSERV SERVICE VERSION NUMBER                                                                                     |
| 12                                                                                                                 | (C)  | X'20'      | 0   | SSJISMDS   | "32" DSERV TOKEN LIST NOT LARGE ENOUGH                                                                                            |
| 12                                                                                                                 | (C)  | X'24'      | 0   | SSJIINVR   | "36" INVALID INPUT DATA TO RELEASE, COULD BE SUCCESSIVE RELEASES WITHOUT INTERVENING OBTAIN OR RELEASE WITHOUT HAVING DONE OBTAIN |
| Comment                                                                                                            |      |            |     |            |                                                                                                                                   |
| REASON CODES ABOVE 128 REPRESENT JES2 INTERNAL REASON CODES                                                        |      |            |     |            |                                                                                                                                   |
| End of Comment                                                                                                     |      |            |     |            |                                                                                                                                   |
| 16                                                                                                                 | (10) | SIGNED     | 4   | SSJIUSER   | POINTER TO USER PARAMETER AREA                                                                                                    |
| 16                                                                                                                 | (10) | X'14'      | 0   | SSJISIZE   | "*-SSJIBGN" SSOB EXTENSION LENGTH                                                                                                 |
| 16                                                                                                                 | (10) | X'14'      | 0   | SSJILEN8   | "SSOBHSIZ+SSJISIZE" TOTAL SSOB LENGTH W/JI EXTENSION                                                                              |

**SSJI Cross Reference**

| Name      | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|-----------|------------|-----------|----------|------------|-----------|
| SSJIBGN   | 0          | 0         | SSJIUNSF | C          | 4         |
| SSJICVDV  | 8          | 1C        | SSJIUSER | 10         |           |
| SSJIDISA  | C          | C         | SSJIVINA | C          | 10        |
| SSJIERRJ  | 0          | C         | SSJI2OBT | C          | 8         |
| SSJIERRU  | 0          | 8         | SSOBSSJI | 0          | 47        |
| SSJIERVER | 0          | 4         |          |            |           |
| SSJIFJCO  | 8          | C         |          |            |           |
| SSJIFJCR  | 8          | 10        |          |            |           |
| SSJIFOBT  | 8          | 4         |          |            |           |
| SSJIFREL  | 8          | 8         |          |            |           |
| SSJIFREQ  | 8          |           |          |            |           |
| SSJIID    | 0          | E2E2D1C9  |          |            |           |
| SSJIINVR  | C          | 24        |          |            |           |
| SSJILEN   | 4          |           |          |            |           |
| SSJILEN8  | 10         | 14        |          |            |           |
| SSJINTDS  | C          | 18        |          |            |           |
| SSJIOK    | 0          | 0         |          |            |           |
| SSJIOLDD  | C          | 14        |          |            |           |
| SSJIPARM  | 0          | 10        |          |            |           |
| SSJIRETN  | C          |           |          |            |           |
| SSJIRSV1  | 9          |           |          |            |           |
| SSJISIOM  | 8          | 14        |          |            |           |
| SSJISIRS  | 8          | 18        |          |            |           |
| SSJISIZE  | 10         | 14        |          |            |           |
| SSJISMDS  | C          | 20        |          |            |           |
| SSJISVR#  | 6          | 1         |          |            |           |
| SSJISVRN  | 6          |           |          |            |           |
| SSJIUNSD  | C          | 1C        |          |            |           |





## SSJS Heading Information

**Common Name:** JOB SELECT FUNCTION  
**Macro ID:** IEFSSJS  
**DSECT Name:** SSJS  
**Owning Component:** SUBSYSTEM INTERFACE (SC1B6)  
**Eye-Catcher ID:** NONE  
**Storage Attributes:** Main Storage: NO  
 Virtual Storage: YES  
 Auxiliary Storage: YES  
 Subpool: DETERMINED BY CALLER OF IEFSSREQ  
 Key: DETERMINED BY CALLER OF IEFSSREQ  
 Data Space: NO  
 Residency: ANY  
**Size:** 256 BYTES  
**Created by:** CALLER OF IEFSSREQ  
**Pointed to by:** - SSOBINDV  
**Serialization:** NONE  
**Function:** PROVIDES THE INPUT AND OUTPUT FOR THE JOB SELECT SSI FUNCTION.

## SSJS Map

| Offsets |      |            |     |            |                                                                                                                                     |
|---------|------|------------|-----|------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                         |
| 0       | (0)  | STRUCTURE  | 268 | SSJS       |                                                                                                                                     |
| 0       | (0)  | SIGNED     | 2   | SSJSLEN    | LENGTH OF SSJS                                                                                                                      |
| 2       | (2)  | UNSIGNED   | 1   | SSJSVER    | SSJS VERSION NUMBER                                                                                                                 |
| 3       | (3)  | UNSIGNED   | 1   | *          | RESERVED                                                                                                                            |
| 4       | (4)  | SIGNED     | 2   | SSJSSTEP   | STEP NO. OR ZERO                                                                                                                    |
| 6       | (6)  | BITSTRING  | 1   | SSJSFLG1   | JOB DESCRIPTOR BITS                                                                                                                 |
|         |      | 1... ....  |     | SSJSSTRS   | STEP RESTART                                                                                                                        |
|         |      | .1.. ....  |     | SSJSCHRS   | CHECKPOINT/RESTART                                                                                                                  |
|         |      | ..1. ....  |     | SSJSCNRS   | CONTINUE RESTART                                                                                                                    |
|         |      | ...1 ....  |     | *          | RESERVED                                                                                                                            |
|         |      | .... 1..   |     | SSJSWARM   | WARM START THE JOB                                                                                                                  |
|         |      | .... .1..  |     | SSJSAIFG   | ALTERNATE INTERPRETER FLAG IF ON SELECT INTERPRETER ADDRESS FROM SSJSAIAD FIELD Y02886                                              |
|         |      | .... ..1.  |     | SSJSSWAL   | ABOVE THE LINE INDICATOR FOR SELECTED SWA CONTROL BLOCKS. IF ON SELECTED SWA CONTROL BLOCKS CAN RESIDE ABOVE THE LINE.              |
|         |      | .... ...1  |     | SSJSSISO   | BELOW THE LINE INDICATOR FOR SYSIN AND SYSOUT SWA CONTROL BLOCKS. IF ON SYSIN/SYSOUT SWA CONTROL BLOCKS MUST RESIDE BELOW THE LINE. |
| 7       | (7)  | BITSTRING  | 1   | SSJSFLG2   | FLAGS                                                                                                                               |
|         |      | 1... ....  |     | SSJSBYP    | BYPASS PASSWORD CHECKING                                                                                                            |
|         |      | .1.. ....  |     | SSJSXBM    | XBM                                                                                                                                 |
|         |      | ..1. ....  |     | SSJSCRYP   | PASSWORD ENCRYPTED                                                                                                                  |
|         |      | ...1 ....  |     | SSJSWLMI   | WLM MANAGED INITIATOR                                                                                                               |
|         |      | .... 1..   |     | SSJSSCCH   | SRVCLASS FOR SELECTED JOB HAS BEEN CHANGED VIA \$TJ OR *F J=.                                                                       |
|         |      | .... .1..  |     | SSJSDBIN   | DEMAND BATCH INITIATOR. ONLY SELECT JOBS WHICH HAVE BEEN FORCED INTO EXECUTION.                                                     |
|         |      | .... ..1.  |     | SSJSDBJB   | SELECTED JOB IS A DEMAND BATCH JOB.                                                                                                 |
|         |      | .... ...1  |     | SSJSJBRQ   | JOB HAS BEEN REQUEUED FOR EXECUTION.                                                                                                |
| 8       | (8)  | ADDRESS    | 4   | SSJSLCT    | ADDRESS OF THE LCT                                                                                                                  |
| 12      | (C)  | ADDRESS    | 4   | SSJSMACB   | ADDRESS OF THE MESSAGE ACB                                                                                                          |
| 16      | (10) | ADDRESS    | 4   | SSJSJACB   | ADDRESS OF THE JOURNAL ACB                                                                                                          |
| 20      | (14) | ADDRESS    | 4   | SSJSTACB   | ADDRESS OF INTERNAL TEXT ACB                                                                                                        |

## SSJS Constants

| Offsets |       |            |     |            |                                                                                                      |
|---------|-------|------------|-----|------------|------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim) | Description                                                                                          |
| 24      | (18)  | ADDRESS    | 4   | SSJSIPRM   | ADDRESS OF PARAMETER FOR PHASE TWO OF THE INTERPRETER                                                |
| 28      | (1C)  | ADDRESS    | 4   | SSJSJMR    | JMR ADDRESS                                                                                          |
| 32      | (20)  | SIGNED     | 4   | SSJSSERR   | SYSTEM ERROR RETURN CODE - FROM CONVERTER OR SWA CREATE                                              |
| 36      | (24)  | ADDRESS    | 4   | SSJSAIAD   | ALTERNATE INTERPRETER ADDRESS Y02886                                                                 |
| 40      | (28)  | CHARACTER  | 9   | SSJSPASS   | SECURITY PASSWORD FIELD                                                                              |
| 40      | (28)  | UNSIGNED   | 1   | SSJSPSLN   | PASSWORD LENGTH                                                                                      |
| 41      | (29)  | CHARACTER  | 8   | SSJSPSWD   | SECURITY PASSWORD                                                                                    |
| 49      | (31)  | CHARACTER  | 9   | SSJSPAS2   | NEW PASSWORD FIELD                                                                                   |
| 49      | (31)  | UNSIGNED   | 1   | SSJSPSL2   | NEW PASSWORD LENGTH                                                                                  |
| 50      | (32)  | CHARACTER  | 8   | SSJSPSW2   | NEW PASSWORD                                                                                         |
| 58      | (3A)  | CHARACTER  | 8   | SSJSCLS    | JES3 JOB CLASS                                                                                       |
| 66      | (42)  | CHARACTER  | 8   | SSJSDVT    | JCL DEFINITION VECTOR TABLE NAME                                                                     |
| 74      | (4A)  | CHARACTER  | 8   | SSJSUSER   | PROPAGATED USERID                                                                                    |
| 82      | (52)  | CHARACTER  | 8   | SSJSGRP    | PROPAGATED GROUPID                                                                                   |
| 90      | (5A)  | CHARACTER  | 80  | SSJSUTOK   | SECURITY TOKEN (THE LAYOUT OF THIS TOKEN IS DETERMINED BY THE SYSTEM SECURITY FACILITY SUCH AS RACF) |
| 170     | (AA)  | CHARACTER  | 2   | SSJSRES2   | RESERVED                                                                                             |
| 172     | (AC)  | CHARACTER  | 16  | SSJSWQTK   | WLM BATCH JOB QUEUE TOKEN.                                                                           |
| 188     | (BC)  | ADDRESS    | 4   | SSJSWECB   | ADDRESS OF THE WLM ECB FOR THIS INITIATOR.                                                           |
| 192     | (C0)  | BITSTRING  | 4   | SSJSWCTK   | WLM CLASSIFICATION TOKEN.                                                                            |
| 196     | (C4)  | SIGNED     | 4   | SSJSPTY    | JOB PRIORITY USED FOR CLASSIFICATION.                                                                |
| 200     | (C8)  | CHARACTER  | 8   | SSJSSCLS   | WLM SERVICE CLASS FOR THE JOB                                                                        |
| 208     | (D0)  | CHARACTER  | 16  | SSJSSENV   | WLM SCHEDULING ENVIRONMENT USED BY THIS JOB.                                                         |
| 224     | (E0)  | CHARACTER  | 8   | SSJSDBJI   | JOBID OF DEMAND BATCH JOB REQUESTED.                                                                 |
| 232     | (E8)  | CHARACTER  | 24  | SSJSRPTD   | REPORTING DATA COLLECTED BY JES WHILE THE JOB WAS WAITING TO EXECUTE.                                |
| 232     | (E8)  | CHARACTER  | 8   | SSJSRHLD   | DURATION JOB WAS INELIGIBLE FOR SELECTION DUE TO A HOLD.                                             |
| 240     | (F0)  | CHARACTER  | 8   | SSJSRRSC   | DURATION JOB WAS INELIGIBLE FOR SELECTION DUE TO UNSATISFIED RESOURCE REQUIREMENTS.                  |
| 248     | (F8)  | CHARACTER  | 8   | SSJSRTOC   | DURATION JOB WAS IN CONVERSION.                                                                      |
| 256     | (100) | UNSIGNED   | 4   | SSJSSRTK   | IWMCLSFY SRMTOKEN OUTPUT RETURNED TO JES WHEN THE JOB WAS CLASSIFIED.                                |
| 260     | (104) | CHARACTER  | 8   | SSJSJPNM   | JESPLEX NAME                                                                                         |
| 268     | (10C) | CHARACTER  | 0   | *          | END OF SSJS                                                                                          |

## SSJS Constants

| Len                                             | Type    | Value | Name     | Description                                                                          |
|-------------------------------------------------|---------|-------|----------|--------------------------------------------------------------------------------------|
| 2                                               | DECIMAL | 5     | SSOBJBSL | FUNCTION ID (SSOBFUNC)                                                               |
| Comment                                         |         |       |          |                                                                                      |
| SUBSYSTEM JOB SELECTION RETURN CODES (SSOBRETN) |         |       |          |                                                                                      |
| End of Comment                                  |         |       |          |                                                                                      |
| 4                                               | DECIMAL | 0     | SSJSRTOK | OK-JOB HAS BEEN SELECTED                                                             |
| 4                                               | DECIMAL | 4     | SSJSISTP | INITIATOR SHOULD STOP                                                                |
| 4                                               | DECIMAL | 8     | SSJSIWLM | WLM ECB WAS POSTED                                                                   |
| 4                                               | DECIMAL | 16    | SSJSYSER | SYSTEM ERROR OCCURRED DURING SUBSYSTEM PROCESSING - SYSTEM ERROR CODE IS IN SSJSSERR |
| 4                                               | DECIMAL | 36    | SSJSPERR | PROGRAM ERROR                                                                        |
| 1                                               | DECIMAL | 6     | SSJSCVER | CURRENT VERSION NUMBER OF SSJS                                                       |

## SSJS Cross Reference

| Name      | Hex Offset | Hex Value |
|-----------|------------|-----------|
| SSJS      | 0          |           |
| SSJSAIAD  | 24         |           |
| SSJSAIFG  | 6          | 04        |
| SSJSBYP   | 7          | 80        |
| SSJSCHRS  | 6          | 40        |
| SSJSCLSS  | 3A         |           |
| SSJSCNRS  | 6          | 20        |
| SSJSCRYP  | 7          | 20        |
| SSJSDBIN  | 7          | 04        |
| SSJSDBJB  | 7          | 02        |
| SSJSDBJI  | E0         |           |
| SSJSFLG1  | 6          |           |
| SSJSFLG2  | 7          |           |
| SSJSGRP   | 52         |           |
| SSJSIPRM  | 18         |           |
| SSJSJACB  | 10         |           |
| SSJSJBRQ  | 7          | 01        |
| SSJSJDVT  | 42         |           |
| SSJSJMR   | 1C         |           |
| SSJSJPNM  | 104        |           |
| SSJSLCT   | 8          |           |
| SSJSLEN   | 0          |           |
| SSJSMACB  | C          |           |
| SSJSPASS  | 28         |           |
| SSJSPAS2  | 31         |           |
| SSJSPRTY  | C4         |           |
| SSJSPSLN  | 28         |           |
| SSJSPSL2  | 31         |           |
| SSJSPSWD  | 29         |           |
| SSJSPSW2  | 32         |           |
| SSJSRES2  | AA         |           |
| SSJSRHL   | E8         |           |
| SSJSRPTD  | E8         |           |
| SSJSRRSC  | F0         |           |
| SSJSRTOC  | F8         |           |
| SSJSSCCH  | 7          | 08        |
| SSJSSCLS  | C8         |           |
| SSJSSENV  | D0         |           |
| SSJSSERR  | 20         |           |
| SSJSSISO  | 6          | 01        |
| SSJSSRTK  | 100        |           |
| SSJSSSTEP | 4          |           |
| SSJSSTRS  | 6          | 80        |
| SSJSSWAL  | 6          | 02        |
| SSJSTACB  | 14         |           |
| SSJSUSER  | 4A         |           |
| SSJSUTOK  | 5A         |           |
| SSJSVER   | 2          |           |
| SSJSWARM  | 6          | 08        |
| SSJSWCTK  | C0         |           |
| SSJSWECB  | BC         |           |
| SSJSWLM   | 7          | 10        |
| SSJSWQTK  | AC         |           |
| SSJSXBM   | 7          | 40        |



## SSJT Heading Information

**Common Name:** Job Termination Function  
**Macro ID:** IEFSSJT  
**DSECT Name:** NONE  
**Owning Component:** Initiator/Terminator (SC1B6)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: ANY  
 Key: KEY OF CALLER OF SSI  
 Residency: ANY  
**Size:** 22 (SSJTSIZE) BYTES  
**Created by:** IEFSD166  
**Pointed to by:** SSOBINDV FIELD OF THE SSOB DATA AREA  
**Serialization:** NONE  
**Function:** Parameter list for the subsystem interface  
 Job Termination Function

### SSJT Map

| Offsets                |      |            |     |            |                                                                      |
|------------------------|------|------------|-----|------------|----------------------------------------------------------------------|
| Dec                    | Hex  | Type/Value | Len | Name (Dim) | Description                                                          |
| 0                      | (0)  | STRUCTURE  | 24  | SSJT       |                                                                      |
| 0                      | (0)  | SIGNED     | 2   | SSJTLEN    | LENGTH OF SSJT                                                       |
| Comment                |      |            |     |            |                                                                      |
| JOB STATUS INFORMATION |      |            |     |            |                                                                      |
| End of Comment         |      |            |     |            |                                                                      |
| 2                      | (2)  | BITSTRING  | 1   | SSJTFLG1   | JOB STATUS FLAGS                                                     |
|                        |      | 1... ....  |     | SSJTJFAL   | JOB FAILED INDICATOR                                                 |
|                        |      | .1... .... |     | SSJTCFAL   | JOB FAILED BECAUSE OF CONDITION CODES                                |
|                        |      | ..1. ....  |     | SSJTABND   | JOB ABENDED,JCTABEND=ON                                              |
|                        |      | ...1 1111  |     | *          | RESERVED                                                             |
| 3                      | (3)  | BITSTRING  | 1   | SSJTFLG2   | OTHER INFORMATION                                                    |
|                        |      | 1... ....  |     | SSJTINIT   | INITIATOR TERMINATING BECAUSE OF INTERNAL PROBLEMS.                  |
| 4                      | (4)  | ADDRESS    | 4   | SSJTJMR    | JMR ADDRESS                                                          |
| 8                      | (8)  | ADDRESS    | 4   | SSJTPCOD   | PTR TO THE 2 BYTE CONDITION CODE OR ZERO                             |
| 12                     | (C)  | ADDRESS    | 4   | SSJTPSN1   | PTR TO THE STEPNAME OF THE ABENDING STEP, IF THE JOB ABENDED OR ZERO |
| 16                     | (10) | ADDRESS    | 4   | SSJTPSN2   | PTR TO THE STEPNAME OF THE STEP WHICH CALLED THE PROC OR ZERO        |
| 20                     | (14) | ADDRESS    | 4   | SSJTSNUM   | PTR TO THE NUMBER OF THE LAST STEP TO COMPLETE EXECUTION.            |

## SSJT Constants • SSJT Cross Reference

### SSJT Constants

| Len                                  | Type    | Value | Name     | Description                       |
|--------------------------------------|---------|-------|----------|-----------------------------------|
| 2                                    | DECIMAL | 12    | SSOBTERM | JOB DELETE FUNCTION ID (SSOBFUNC) |
| Comment                              |         |       |          |                                   |
| JOB DELETION RETURN CODES (SSOBRETN) |         |       |          |                                   |
| End of Comment                       |         |       |          |                                   |
| 4                                    | DECIMAL | 36    | SSJTPERR | PROGRAM ERROR                     |

### SSJT Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| SSJT     | 0          |           |
| SSJTABND | 2          | 20        |
| SSJTCFAL | 2          | 40        |
| SSJTFLG1 | 2          |           |
| SSJTFLG2 | 3          |           |
| SSJTINIT | 3          | 80        |
| SSJTJFAL | 2          | 80        |
| SSJTJMR  | 4          |           |
| SSJTLEN  | 0          |           |
| SSJTPCOD | 8          |           |
| SSJTPSN1 | C          |           |
| SSJTPSN2 | 10         |           |
| SSJTSNUM | 14         |           |

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## SSL Programming Interface information

Programming Interface information

SSL

End of Programming Interface information

## SSL Heading Information

**Common Name:** SHORT PAGE SERVICE LIST  
**Macro ID:** IHASSL  
**DSECT Name:** SSL  
**Owning Component:** REAL STORAGE MANAGER (SC1CR)  
**Eye-Catcher ID:** NONE  
**Storage Attributes:** Virtual Storage: YES  
                           Subpool: USER SPECIFIED.  
                           Key: USER SPECIFIED.  
                           Residency: ANYWHERE  
**Size:** 8 BYTES  
**Created by:** USER  
**Pointed to by:** REGISTER 1 (INPUT TO PAGE SERVICES)  
**Serialization:** NONE  
**Function:** DESCRIBES A RANGE OF VIRTUAL ADDRESSES TO BE  
                   PROCESSED BY EITHER FAST-PATH PAGE FIX OR PAGE FREE.

## SSL Map

| Offsets |     |                        |     |                      |                                                                                                 |
|---------|-----|------------------------|-----|----------------------|-------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value             | Len | Name (Dim)           | Description                                                                                     |
| 0       | (0) | STRUCTURE              | 0   | SSL                  | , SSLPTR                                                                                        |
| 0       | (0) | ADDRESS                | 4   | SSLSTRT              | 31-BIT START ADDRESS OF THE VIRTUAL AREA TO BE FIXED OR FREED. BIT 0 IS RESERVED AND MUST BE 0. |
| 4       | (4) | BITSTRING<br>1... .... | 1   | SSLFLG (0)<br>SSLAST | "X'80" IF 1, THEN THIS IS THE LAST SSL IN THE CONCATENATION OF SSLS.                            |
| 4       | (4) | ADDRESS                | 4   | SSELEND              | 31-BIT ADDRESS OF THE FINAL BYTE OF THE VIRTUAL AREA TO BE FIXED OR FREED PLUS ONE.             |
| 8       | (8) | SIGNED                 | 4   | SSLFINIS (0)         | THIS IS THE END OF THE SSL                                                                      |
| 8       | (8) | X'8'                   | 0   | SSELEND              | "SSLFINIS-SSL" LENGTH OF AN SSL                                                                 |



## SSNQ Heading Information

**Common Name:** SSOB Extension for Dynamic Allocation Change ENQ  
**Macro ID:** IEFSSNQ  
**DSECT Name:** SSNQ  
**Owning Component:** Allocation/unallocation (SC1B4)  
**Subpool and Key:** User subpool and key  
**Size:** 20 bytes for SSOB plus 16 bytes for SSNQ  
**Created by:** IEFAB4DC  
**Pointed to by:** SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** Parameter list for the subsystem interface.

### SSNQ Map

| Offsets |     |            |     |            |                    |
|---------|-----|------------|-----|------------|--------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description        |
| 0       | (0) | STRUCTURE  | 16  | SSNQ       |                    |
| 0       | (0) | SIGNED     | 2   | SSNQLEN    | LENGTH OF SSNQ     |
| 2       | (2) | SIGNED     | 2   | SSNQRSV0   | RESERVED           |
| 4       | (4) | ADDRESS    | 4   | SSNQDSNP   | ADDR DSNAME BUFFER |
| 8       | (8) | ADDRESS    | 4   | SSNQFLGP   | ADDR FLAG FIELD    |
| 12      | (C) | SIGNED     | 4   | SSNQRSV1   | RESERVED           |

### SSNQ Constants

| Len                                                         | Type    | Value | Name     | Description                                            |
|-------------------------------------------------------------|---------|-------|----------|--------------------------------------------------------|
| 2                                                           | DECIMAL | 27    | SSOBNQCD | CHANGE ENQ USE ATTRIBUTE FUNCTION ID                   |
| Comment<br>CHANGE ENQ USE ATTRIBUTE RETURN CODES (SSOBRETN) |         |       |          |                                                        |
| End of Comment                                              |         |       |          |                                                        |
| 4                                                           | DECIMAL | 0     | SSOBNQOK | ALLRIGHT TO ENQ TO CHANGE USE ATTRIBUTE                |
| 4                                                           | DECIMAL | 4     | SSOBNQNO | NOT CURRENTLY POSSIBLE TO CHANGE THE ENQ USE ATTRIBUTE |



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**SSNU Programming Interface Information**

Programming Interface Information

SSNU

End of Programming Interface Information

## SSNU Heading Information

**Common Name:** JES NOTIFY USER MSG SERVICE SSOB EXTENSION  
**Macro ID:** IAZSSNU  
**DSECT Name:** SSNUBGN  
**Owning Component:** JES Common Library (SC141)  
**Eye-Catcher ID:** SSNU  
 Offset: 0  
 Length: 4  
**Storage Attributes:** Virtual Storage: any  
 Key: supervisor state  
**Size:** see SSNUSIZE  
**Created by:** caller of SSI function 'SSOBSSNU' = 75  
**Pointed to by:** SSOBINDV in the SSOB header.  
**Serialization:** None  
**Function:** This macro provides the mapping of the SSOB extension used to request service of the Notify User SSI-to send messages to other system destinations.

## SSNU Map

| Offsets                                                |     |            |     |            |                                                       |
|--------------------------------------------------------|-----|------------|-----|------------|-------------------------------------------------------|
| Dec                                                    | Hex | Type/Value | Len | Name (Dim) | Description                                           |
| 0                                                      | (0) | STRUCTURE  | 0   |            |                                                       |
| 0                                                      | (0) | X'4B'      | 0   | SSOBSSNU   | "75" JES Notify User Function ID                      |
| Comment                                                |     |            |     |            |                                                       |
| RETURN CODE VALUES FOR SSOBRETN                        |     |            |     |            |                                                       |
| End of Comment                                         |     |            |     |            |                                                       |
| 0                                                      | (0) | X'0'       | 0   | SSNUOK     | "0" Notify Request Successful                         |
| 0                                                      | (0) | X'4'       | 0   | SSNUOKB    | "4" Notify Request Success BUT                        |
| 0                                                      | (0) | X'8'       | 0   | SSNUERR    | "8" Notify Request Error see SSNUERCD for reason code |
| 0                                                      | (0) | X'C'       | 0   | SSNUNEX    | "12" Notify no extension found                        |
| Comment                                                |     |            |     |            |                                                       |
| REASON CODE VALUES FOR SSNUERCD                        |     |            |     |            |                                                       |
| End of Comment                                         |     |            |     |            |                                                       |
| 0                                                      | (0) | X'0'       | 0   | SSNURQOK   | "0" Notify Request Successful                         |
| 0                                                      | (0) | X'4'       | 0   | SSNUMSGT   | "4" Notify Successful BUT msg truncated               |
| 0                                                      | (0) | X'8'       | 0   | SSNUEXC    | "8" Exit cancelled notify                             |
| 0                                                      | (0) | X'C'       | 0   | SSNUNUSR   | "12" No userid specified                              |
| 0                                                      | (0) | X'10'      | 0   | SSNUINVD   | "16" Notify Invalid destination                       |
| 0                                                      | (0) | X'14'      | 0   | SSNUIVID   | "20" Invalid SSNU extension id                        |
| 0                                                      | (0) | X'18'      | 0   | SSNUIVER   | "24" Invalid SSNU version                             |
| 0                                                      | (0) | X'1C'      | 0   | SSNUNOST   | "28" No storage to process req                        |
| 0                                                      | (0) | X'20'      | 0   | SSNUNOAU   | "32" No authorization                                 |
| 0                                                      | (0) | X'24'      | 0   | SSNUMSGE   | "36" Error in msg specification                       |
| Comment                                                |     |            |     |            |                                                       |
| SSI SSOB Extension for Notify User Message Router-SSNU |     |            |     |            |                                                       |
| End of Comment                                         |     |            |     |            |                                                       |
| 0                                                      | (0) | X'0'       | 0   | SSNUBGN    | ***                                                   |
| 0                                                      | (0) | CHARACTER  | 4   | SSNUID     | Extension Identifier                                  |
| 4                                                      | (4) | ADDRESS    | 2   | SSNULEN    | Length of SSOB Extensn area                           |
| 6                                                      | (6) | BITSTRING  | 1   | SSNUVER    | Service Version Number                                |

| Offsets |      |                        |     |                      |                                                                                  |
|---------|------|------------------------|-----|----------------------|----------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value             | Len | Name (Dim)           | Description                                                                      |
| 6       | (6)  | X'1'                   | 0   | SSNUCVER             | "1" Service Version Number of IAZSSNU - Version 4.1.0<br>SSNUVER MUST = SSNUCVER |
| 7       | (7)  | BITSTRING              | 1   | SSNURSV1             | Reserved                                                                         |
| 8       | (8)  | SIGNED                 | 2   | SSNUERCD             | Reason code for Error RC                                                         |
| 10      | (A)  | BITSTRING<br>1... .... | 1   | SSNUFLG1<br>SSNU1MLO | Flag Byte 1<br>"X'80" Send msg IFF user log'd on                                 |
| 11      | (B)  | BITSTRING              | 1   | SSNURSV2             | Reserved                                                                         |
| 12      | (C)  | ADDRESS                | 4   | SSNUTKNA             | Address of user token(opt)                                                       |
| 16      | (10) | CHARACTER              | 8   | SSNUNODE             | Receiving NODE name                                                              |
| 24      | (18) | CHARACTER              | 8   | SSNUUSER             | Receiving USERID                                                                 |
| 32      | (20) | SIGNED                 | 2   | SSNUMLEN             | Length of msg to be sent                                                         |
| 34      | (22) | SIGNED                 | 2   | SSNURSV4             | Reserved                                                                         |
| 36      | (24) | ADDRESS                | 4   | SSNUMSG              | Address of msg to be sent                                                        |
| 40      | (28) | SIGNED                 | 4   |                      | Reserved for future use                                                          |
| 44      | (2C) | SIGNED                 | 4   |                      | Reserved for future use                                                          |

Comment

To allow for compatibility between versions, add new areas here.

End of Comment

|    |      |       |   |          |                                                |
|----|------|-------|---|----------|------------------------------------------------|
| 44 | (2C) | X'30' | 0 | SSNUSIZE | "*-SSNUBGN" SSOB Extension length              |
| 44 | (2C) | X'30' | 0 | SSNULEN8 | "SSOBHSIZ+SSNUSIZE" Total SSOB Length w/NU Ext |

## SSNU Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| SSNUBGN  | 0          | 0         |
| SSNUCVER | 6          | 1         |
| SSNUERCD | 8          |           |
| SSNUERR  | 0          | 8         |
| SSNUEXC  | 0          | 8         |
| SSNUFLG1 | A          |           |
| SSNUID   | 0          | E2E2D5E4  |
| SSNUINVD | 0          | 10        |
| SSNUIVER | 0          | 18        |
| SSNUIVID | 0          | 14        |
| SSNULEN  | 4          |           |
| SSNULEN8 | 2C         | 30        |
| SSNUMLEN | 20         |           |
| SSNUMSG  | 24         |           |
| SSNUMSGE | 0          | 24        |
| SSNUMSGT | 0          | 4         |
| SSNUNEX  | 0          | C         |
| SSNUNOAU | 0          | 20        |
| SSNUNODE | 10         |           |
| SSNUNOST | 0          | 1C        |
| SSNUNUSR | 0          | C         |
| SSNUOK   | 0          | 0         |
| SSNUOKB  | 0          | 4         |
| SSNURQOK | 0          | 0         |
| SSNURSV1 | 7          |           |
| SSNURSV2 | B          |           |
| SSNURSV4 | 22         |           |
| SSNUSIZE | 2C         | 30        |
| SSNUTKNA | C          |           |
| SSNUUSER | 18         |           |
| SSNUVER  | 6          |           |
| SSNU1MLO | A          | 80        |
| SSOBSSNU | 0          | 4B        |



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## SSOB Programming Interface Information

Programming Interface Information

### SSOB

**ONLY** the following fields are part of the programming interface:

- SSOBFUNC
- SSOBHSIZ
- SSOBID
- SSOBINDV
- SSOBLEN
- SSOBRETN
- SSOBSSIB

End of Programming Interface Information

## SSOB Heading Information

**Common Name:** Subsystem Options Block  
**Macro ID:** IEFSSOBH  
**DSECT Name:** SSOB  
**Owning Component:** Initiator/terminator (SC1B6)  
**Subpool and Key:** User subpool and key  
**Size:** Header is of fixed length 28 bytes. The extensions are of variable lengths.  
**Created by:** Users of IEFSSREQ macro  
**Pointed to by:** Register 1 at the time of the IEFSSREQ invocation.  
**Serialization:** None  
**Function:** Parameter list for the subsystem interface.

## SSOB Map

| Offsets |     |            |     |            |                            |
|---------|-----|------------|-----|------------|----------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                |
| 0       | (0) | STRUCTURE  | 0   | SSOB       |                            |
| 0       | (0) | X'0'       | 0   | SSOBEGIN   | ***                        |
| 0       | (0) | CHARACTER  | 4   | SSOBID     | CONTROL BLOCK IDENTIFIER   |
| 4       | (4) | ADDRESS    | 2   | SSOBLEN    | LENGTH OF SSOB HEADER      |
| 6       | (6) | SIGNED     | 2   | SSOBFUNC   | FUNCTION ID                |
| 8       | (8) | ADDRESS    | 4   | SSOBSSIB   | ADDRESS OF SSIB OR ZERO    |
| 12      | (C) | SIGNED     | 4   | SSOBRETN   | RETURN CODE FROM SUBSYSTEM |

Comment

THE FOLLOWING RETURN CODES WILL BE RETURNED IN REGISTER 15  
 TO THE ISSUER OF THE IEFSSREQ MACRO -  
 SSOBRETN CONTAINS FUNCTION-RELATED RETURN CODES  
 (DEFINED IN EACH FUNCTION EXTENSION)

End of Comment

|    |      |           |   |          |                                                            |
|----|------|-----------|---|----------|------------------------------------------------------------|
| 12 | (C)  | X'0'      | 0 | SSRTOK   | "0" SUCCESSFUL COMPLETION - REQUEST WENT TO A SUBSYSTEM.   |
| 12 | (C)  | X'4'      | 0 | SSRTNSUP | "4" SUBSYSTEM DOES NOT SUPPORT THIS FUNCTION               |
| 12 | (C)  | X'8'      | 0 | SSRTNTUP | "8" SUBSYSTEM EXISTS, BUT IS NOT UP                        |
| 12 | (C)  | X'C'      | 0 | SSRTNOSS | "12" SUBSYSTEM DOES NOT EXIST                              |
| 12 | (C)  | X'10'     | 0 | SSRTDIST | "16" FUNCTION NOT COMPLETED-DISASTROUS ERROR               |
| 12 | (C)  | X'14'     | 0 | SSRTLERR | "20" LOGICAL ERROR (BAD SSOB FORMAT, INCORRECT LENGTH,...) |
| 12 | (C)  | X'18'     | 0 | SSRTNSSI | "24" SSI not initialized                                   |
| 16 | (10) | SIGNED    | 4 | SSOBINDV | FUNCTION DEPENDENT AREA POINTER                            |
| 16 | (10) | X'14'     | 0 | SSOBADDL | *** START OF LENGTHENED SSOB                               |
| 20 | (14) | ADDRESS   | 4 | SSOBRETA | USED BY SSI TO SAVE RETURN ADDRESS OF 31 BIT MODE CALLERS  |
| 24 | (18) | BITSTRING | 1 | SSOBFLG1 | Flag Byte                                                  |
|    |      | 1... ..   |   | SSOBRTRY | "X'80" Retry Requested                                     |
| 25 | (19) | CHARACTER | 3 | SSOBRV1  | RESERVED                                                   |
| 25 | (19) | X'1C'     | 0 | SSOBHSIZ | **_SSOBEGIN" SSOB HEADER LENGTH                            |



## SSOB Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| SSOB     | 0             |              |
| SSOBADDL | 10            | 14           |
| SSOBEGIN | 0             | 0            |
| SSOBFLG1 | 18            |              |
| SSOBFUNC | 6             |              |
| SSOBHSIZ | 19            | 1C           |
| SSOBID   | 0             | E2E2D6C2     |
| SSOBINDV | 10            |              |
| SSOBLN   | 4             |              |
| SSOBRETA | 14            |              |
| SSOBRETN | C             |              |
| SSOBRV1  | 19            |              |
| SSOBRTRY | 18            | 80           |
| SSOBSSIB | 8             |              |
| SSRTDIST | C             | 10           |
| SSRTLERR | C             | 14           |
| SSRTNOSS | C             | C            |
| SSRTNSSI | C             | 18           |
| SSRTNSUP | C             | 4            |
| SSRTNTUP | C             | 8            |
| SSRTOK   | C             | 0            |



## SSPJ Heading Information

**Common Name:** Persistent JCL interface SSOB extension  
**Macro ID:** IAZSSPJ  
**DSECT Name:** SSPJ  
**Owning Component:** JES Common (SC141)  
**Eye-Catcher ID:** 'SSPJ'  
 Offset: 4  
 Length: 4  
**Storage Attributes:** Subpool: Any  
 Key: Key of SSI caller  
 Residency: Any  
**Size:** See the SSPJSIZE equate  
**Created by:** Caller of SSI  
**Pointed to by:** SSOBINDV in the IEFSSOBH mapping macro  
**Serialization:** None required  
**Function:** Defines the SSOB extension used to request persistent JCL functions from JES.

### SSPJ Map

| Offsets |      |            |     |              |                                              |
|---------|------|------------|-----|--------------|----------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                  |
| 0       | (0)  | STRUCTURE  | 0   |              |                                              |
| 0       | (0)  | X'4D'      | 0   | SSOBPJCL     | "77" Function id (SSOBFUNC)                  |
| 0       | (0)  | X'0'       | 0   | SSPJ         | *** SSOB extension mapping - SSPJ            |
| 0       | (0)  | SIGNED     | 2   | SSPJLEN      | Length of extension                          |
| 2       | (2)  | BITSTRING  | 1   | SSPJVER      | Version of mapping for caller                |
| 2       | (2)  | X'1'       | 0   | SSPJCVVER    | "1" Current version                          |
| 3       | (3)  | BITSTRING  | 1   | SSPJREQ      | Request code                                 |
| 3       | (3)  | X'1'       | 0   | SSPJREG      | "1" Register request                         |
| 3       | (3)  | X'2'       | 0   | SSPJDRREG    | "2" Deregister request                       |
| 3       | (3)  | X'3'       | 0   | SSPJREST     | "3" Restart request                          |
| 3       | (3)  | X'4'       | 0   | SSPJQRY      | "4" Query request                            |
| 4       | (4)  | CHARACTER  | 4   | SSPJID       | SSOB extension id - "SSPJ"                   |
| 8       | (8)  | SIGNED     | 4   | SSPJRSN      | Reason code                                  |
| 12      | (C)  | CHARACTER  | 8   | SSPJGRP      | JES XCF group name                           |
| 20      | (14) | CHARACTER  | 8   | SSPJJTOK (0) | Job token                                    |
| 20      | (14) | CHARACTER  | 4   | SSPJJNUM     | Job number                                   |
| 24      | (18) | CHARACTER  | 4   | SSPJKEY      | Job key                                      |
| 24      | (18) | X'0'       | 0   | SSPJJUMN     | "0" Dummy job token - job number             |
| 24      | (18) | BITSTRING  | 0   | SSPJJUMK     | "X'FFFFFFFF" Dummy job token - job key       |
| 28      | (1C) | CHARACTER  | 8   | SSPJSTOK     | Stoken (register only)                       |
| 36      | (24) | CHARACTER  | 8   | SSPJJBID     | Job id (register only)                       |
| 44      | (2C) | BITSTRING  | 1   | SSPJCAUS     | Deregister cause                             |
| 44      | (2C) | X'1'       | 0   | SSPJOTHR     | "1" Other restart                            |
| 44      | (2C) | X'2'       | 0   | SSPJNORS     | "2" No restart                               |
| 44      | (2C) | X'3'       | 0   | SSPJTIME     | "3" Timeout                                  |
| 45      | (2D) | CHARACTER  | 3   | SSPJRSV1     | Reserved for future use                      |
| 45      | (2D) | X'30'      | 0   | SSPJSIZE     | **-SSPJ" Length of SSPJ fixed header section |

## SSPJ Cross Reference

### SSPJ Cross Reference

| Name      | Hex<br>Offset | Hex<br>Value |
|-----------|---------------|--------------|
| SSOBPJCL  | 0             | 4D           |
| SSPJ      | 0             | 0            |
| SSPJCAUS  | 2C            |              |
| SSPJCOVER | 2             | 1            |
| SSPJDREG  | 3             | 2            |
| SSPJDUMK  | 18            | FFFFFF       |
| SSPJDUMN  | 18            | 0            |
| SSPJGRP   | C             |              |
| SSPJID    | 4             | E2E2D7D1     |
| SSPJJBID  | 24            |              |
| SSPJKEY   | 18            |              |
| SSPJNUM   | 14            |              |
| SSPJTOK   | 14            |              |
| SSPJLEN   | 0             |              |
| SSPJNORS  | 2C            | 2            |
| SSPJOTHR  | 2C            | 1            |
| SSPJQRY   | 3             | 4            |
| SSPJREG   | 3             | 1            |
| SSPJREQ   | 3             |              |
| SSPJREST  | 3             | 3            |
| SSPJRSN   | 8             |              |
| SSPJRSV1  | 2D            |              |
| SSPJSIZE  | 2D            | 30           |
| SSPJSTOK  | 1C            |              |
| SSPJTIME  | 2C            | 3            |
| SSPJVER   | 2             |              |

## SSRB Heading Information

**Common Name:** Suspended Service Request Block  
**Macro ID:** IHASSRB  
**DSECT Name:** SSRBSECT  
**Owning Component:** Supervisor Control (SC1C5)  
**Eye-Catcher ID:** SSRB  
 Offset: 0  
 Length: 4  
**Storage Attributes:** Subpool: 239  
 Key: 0  
 Residency: Above 16M line  
**Size:** 1432 bytes  
**Created by:** IEAVESPM (SRB/SSRB Pool Management)  
**Pointed to by:** SPL or service management queues  
 ASCBLSMQ field of the ASCB data area  
 ASCBLSPL field of the ASCB data area  
 SRBFLNK field of the SRB data area  
 SVTGSMQ field of the SVT data area  
 SVTGSPL field of the SVT data area  
 SVTLSMQ field of the SVT data area  
 SVTSSRBA field of the SVT data area  
**Serialization:** Owner-serialized.  
**Function:** Used to save PSW, registers, and FRR stack when an SRB has to be suspended for a page fault or locking purposes.

## SSRB Map

| Offsets |      |            |     |              |                                                         |
|---------|------|------------|-----|--------------|---------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                             |
| 0       | (0)  | STRUCTURE  | 0   | SRBSECT      |                                                         |
| 0       | (0)  | ADDRESS    | 4   | SRB (0)      |                                                         |
| 0       | (0)  | CHARACTER  | 4   | SRBID        | EBCDIC ACRONYM FOR SRB OR SSRB.                         |
| 4       | (4)  | ADDRESS    | 4   | SRBFLNK      | FORWARD CHAIN FIELD                                     |
| 8       | (8)  | ADDRESS    | 4   | SRBASCB (0)  | PTR TO ASCB OF ADDRESS SPACE SRB IS TO BE DISPATCHED TO |
| 8       | (8)  | BITSTRING  | 1   |              | RESERVED. DO NOT USE.                                   |
| 9       | (9)  | ADDRESS    | 3   | SRBASC24     | 24-bit ASCB address                                     |
| 12      | (C)  | CHARACTER  | 8   | SRBFLC (0)   | SRB AREA MOVED TO LOW CORE                              |
| 12      | (C)  | BITSTRING  | 2   | SRBCPAFF     | CPU AFFINITY MASK                                       |
| 14      | (E)  | SIGNED     | 2   | SRBPASID     | PURGEDQ ASID IDENTIFIER                                 |
| 16      | (10) | ADDRESS    | 4   | SRBPTCB      | PURGEDQ TCB IDENTIFIER                                  |
| 20      | (14) | ADDRESS    | 4   | SRBEP (0)    | ENTRY POINT OF ROUTINE                                  |
| 20      | (14) | ADDRESS    | 4   | SRBEP A      | ADDRESS OF ENTRY POINT (31-BIT USERS)                   |
|         |      | 1... ....  |     | SRBMODE      | "X'80" ADDRESSING MODE INDICATOR                        |
| 24      | (18) | ADDRESS    | 4   | SRBRMTR (0)  | ADDRESS OF RESOURCE MANAGER ROUTINE                     |
| 24      | (18) | ADDRESS    | 4   | SRBRMTR A    | ADDRESS OF RESOURCE MANAGER ROUTINE (31-BIT USERS)      |
|         |      | 1... ....  |     | SRBRMODE     | "X'80" ADDRESSING MODE INDICATOR                        |
| 28      | (1C) | ADDRESS    | 4   | SRBPARM      | USER PARAMETER                                          |
| 32      | (20) | ADDRESS    | 4   | SRBWEB (0)   | Address of this SRB's WEB. SERIALIZATION: None          |
|         |      |            |     |              | OWNERSHIP: Supervisor Control                           |
| 32      | (20) | ADDRESS    | 4   | SRBSAVE      | Reserved. Must be Zero. SERIALIZATION: None             |
|         |      |            |     |              | OWNERSHIP: Supervisor Control                           |
| 36      | (24) | BITSTRING  | 1   | SRBPKF       | PROTECT KEY INDICATION                                  |
| 37      | (25) | BITSTRING  | 1   | SRBPRIOR (0) | PRIORITY LEVEL INDIC                                    |
| 37      | (25) | BITSTRING  | 1   | SRBFLGS      | SRB OPTION FLAGS                                        |
|         |      | 1... ....  |     | SRBLLREQ     | "X'80" LOCAL LOCK REQUIRED                              |

## SSRB Map

| Offsets |      |            |     |              |                                                                                                                                                                        |
|---------|------|------------|-----|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                                                                            |
|         |      | .1.. ....  |     | SRBLLHLD     | "X'40" LOCAL LOCK HELD                                                                                                                                                 |
|         |      | ..1. ....  |     | SRBFRREQ     | "X'20" FRR REQUESTED                                                                                                                                                   |
|         |      | ...1 ....  |     | SRBFRRCL     | "X'10" THIS BIT IS OBSOLETE SINCE FRR PARM AREA ALWAYS CLEARED BY DISPATCHER. RETAINED FOR COMPATIBILITY.                                                              |
|         |      | .... 1...  |     | SRBSUSP      | "X'08" SUSPENDED SRB ONLY ON FOR SSRB                                                                                                                                  |
|         |      | .... .1..  |     | SRBPNONQ     | "X'04" NON QUIESCABLE SRB                                                                                                                                              |
|         |      | .... ....  |     | SRBPSYS      | "X'00" SYSTEM PRIORITY LEVEL                                                                                                                                           |
| 38      | (26) | BITSTRING  | 1   | SRBHLHI      | INDICATION OF SUSPEND LOCKS HELD AT SRB SUSPENSION                                                                                                                     |
| 39      | (27) | BITSTRING  | 1   | SRBFLGS1     | SRB TYPE FLAGS.                                                                                                                                                        |
|         |      | 1... ....  |     | SRBMAIN      | "X'80" SRB/SSRB MUST BE FREEMAINED.                                                                                                                                    |
|         |      | .1.. ....  |     | SRBSP245     | "X'40" SRB/SSRB FROM SUBPOOL 245.                                                                                                                                      |
|         |      | ..1. ....  |     | SRBBLK24     | "X'20" SRB BELOW THE LINE                                                                                                                                              |
|         |      | ...1 ....  |     | SRBXESF      | "X'10" Mode=primary FRR - only meaningful if SRBFRREQ is set.                                                                                                          |
|         |      | .... 1...  |     | SRB1STS      | "X'08" This SSRB represents the initial schedule of a workunit and has never been dispatched.                                                                          |
|         |      | .... .1..  |     | SRBPMCS      | "X'04" This SRB is in process-must complete mode                                                                                                                       |
|         |      | .... ..1.  |     | SRBMSCHD     | "X'02" This SRB was scheduled via the IEAMSCHD macro                                                                                                                   |
|         |      | .... ...1  |     | SRBTOKNP     | "X'01" This SSRB belongs to the pool created for SUSPEND with SPTOKEN.                                                                                                 |
| 40      | (28) | ADDRESS    | 4   | SRBFRA       | FRR ROUTINE ADDRESS                                                                                                                                                    |
| 44      | (2C) | SIGNED     | 4   | SRBEND (0)   | END OF SRB                                                                                                                                                             |
| 44      | (2C) | X'2C'      | 0   | SRBSIZE      | "SRBEND-SRBSECT" SIZE OF SRB                                                                                                                                           |
| 0       | (0)  | X'0'       | 0   | SSRBSECT     | "SRBSECT" SET LABEL TO BEGINNING                                                                                                                                       |
| 44      | (2C) | SIGNED     | 4   |              | RESERVED                                                                                                                                                               |
| 48      | (30) | DBL WORD   | 8   | SSRB (0)     | START OF SAVE AREA PORTION                                                                                                                                             |
| 48      | (30) | CHARACTER  | 32  | SSRBFPRS (0) | FLOATING POINT REG SAVE                                                                                                                                                |
| 48      | (30) | DBL WORD   | 8   | SSRBFPR0     | FLOATING POINT REG 0                                                                                                                                                   |
| 56      | (38) | DBL WORD   | 8   | SSRBFPR2     | FLOATING POINT REG 2                                                                                                                                                   |
| 64      | (40) | DBL WORD   | 8   | SSRBFPR4     | FLOATING POINT REG 4                                                                                                                                                   |
| 72      | (48) | DBL WORD   | 8   | SSRBFPR6     | FLOATING POINT REG 6                                                                                                                                                   |
| 80      | (50) | SIGNED     | 4   | SSRBTRAN     | PAGE FAULT ADDR(FLIH)                                                                                                                                                  |
| 84      | (54) | BITSTRING  | 2   | SSRBSAFN     | SAVED AFFINITY                                                                                                                                                         |
| 86      | (56) | BITSTRING  | 1   | SSRBTYPE     | Savearea for WEBTYPE when PSRBs, ESRBs or CSRbs are suspended or STOPped. Ownership: Supervisor Control<br>Serialization: WEBLOCK of the WEB associated with this SSRB |
| 87      | (57) | CHARACTER  | 1   | SSRBR057     | RESERVED.                                                                                                                                                              |
| 88      | (58) | CHARACTER  | 64  | SSRBGPRS (0) | GENERAL REGISTER SAVE                                                                                                                                                  |
| 88      | (58) | SIGNED     | 4   | SSRBGPR0     | GENERAL REGISTER 0                                                                                                                                                     |
| 92      | (5C) | SIGNED     | 4   | SSRBGPR1     | GENERAL REGISTER 1                                                                                                                                                     |
| 96      | (60) | SIGNED     | 4   | SSRBGPR2     | GENERAL REGISTER 2                                                                                                                                                     |
| 100     | (64) | SIGNED     | 4   | SSRBGPR3     | GENERAL REGISTER 3                                                                                                                                                     |
| 104     | (68) | SIGNED     | 4   | SSRBGPR4     | GENERAL REGISTER 4                                                                                                                                                     |
| 108     | (6C) | SIGNED     | 4   | SSRBGPR5     | GENERAL REGISTER 5                                                                                                                                                     |
| 112     | (70) | SIGNED     | 4   | SSRBGPR6     | GENERAL REGISTER 6                                                                                                                                                     |
| 116     | (74) | SIGNED     | 4   | SSRBGPR7     | GENERAL REGISTER 7                                                                                                                                                     |
| 120     | (78) | SIGNED     | 4   | SSRBGPR8     | GENERAL REGISTER 8                                                                                                                                                     |
| 124     | (7C) | SIGNED     | 4   | SSRBGPR9     | GENERAL REGISTER 9                                                                                                                                                     |
| 128     | (80) | SIGNED     | 4   | SSRBGPRA     | GENERAL REGISTER 10                                                                                                                                                    |
| 132     | (84) | SIGNED     | 4   | SSRBGPRB     | GENERAL REGISTER 11                                                                                                                                                    |
| 136     | (88) | SIGNED     | 4   | SSRBGPRC     | GENERAL REGISTER 12                                                                                                                                                    |
| 140     | (8C) | SIGNED     | 4   | SSRBGPRD     | GENERAL REGISTER 13                                                                                                                                                    |
| 144     | (90) | SIGNED     | 4   | SSRBGPRE     | GENERAL REGISTER 14                                                                                                                                                    |
| 148     | (94) | SIGNED     | 4   | SSRBGPRF     | GENERAL REGISTER 15                                                                                                                                                    |
| 152     | (98) | DBL WORD   | 8   | SSRBCPSW     | VALUE OF CURRENT PSW                                                                                                                                                   |
| 160     | (A0) | DBL WORD   | 8   | SSRBCPUT     | CPU TIMER SAVEAREA                                                                                                                                                     |
|         |      | 1... ....  |     | SSRBNTMR     | "X'80" When set, this SSRB doesn't have any SRB Timer set.<br>Only meaningful for preemptable-class SRBs.                                                              |
| 168     | (A8) | DBL WORD   | 8   | SSRBTIME     | SRB TIME LIMIT VALUE IF THIS SRB IS BEING TIMED, OTHERWISE ZERO.                                                                                                       |
| 176     | (B0) | ADDRESS    | 4   | SSRBXSB      | ADDRESS OF EXTENDED STATUS BLOCK (XSB).                                                                                                                                |
| 180     | (B4) | ADDRESS    | 4   | SSRBORMT     | OLD SRB RMTR VALUE                                                                                                                                                     |

| Offsets |       |            |     |                       |                                                                                                                                                                                                                                                                                                                        |
|---------|-------|------------|-----|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim)            | Description                                                                                                                                                                                                                                                                                                            |
|         |       | 1... ....  |     | SSRBSSTD              | "X'80" SRB SUSPEND WITH TOKEN DISABLE BIT                                                                                                                                                                                                                                                                              |
|         |       | .1... .... |     | SSRBSSTA              | "X'40" SRB SUSPEND WITH TOKEN DISABLED BECAUSE SRB WAS ABENDED DURING PURGEDQ PROCESSING.                                                                                                                                                                                                                              |
|         |       | ..1. ....  |     | SSRBSSTE              | "X'20" SRB SUSPEND WITH TOKEN DISABLED BECAUSE THIS SRB IS A SUSPEND EXIT.                                                                                                                                                                                                                                             |
| 184     | (B8)  | ADDRESS    | 4   | SSRBLSA1              | SAVEAREA FOR LCCACLSLSD.                                                                                                                                                                                                                                                                                               |
| 188     | (BC)  | CHARACTER  | 4   | SSRBROBC              | Reserved.                                                                                                                                                                                                                                                                                                              |
| 192     | (C0)  | ADDRESS    | 4   | SSRBLSDP              | VIRTUAL ADDRESS OF THE CURRENT LSED. IF SSRBLSDP IS 0 1. THE SRB DID NOT USE THE LINKAGE STACK, 2. SSRBLSA1 IS UNPREDICTABLE, AND 3. THE SSRB WILL BE DISPATCHED WITH AN EMPTY LINKAGE STACK.                                                                                                                          |
| 196     | (C4)  | ADDRESS    | 4   | SSRBALOV              | DISPATCHABLE UNIT ACCESS LIST VIRTUAL ADDRESS.                                                                                                                                                                                                                                                                         |
| 200     | (C8)  | CHARACTER  | 64  | SSRBARS               | ACCESS REGISTER SAVEAREA                                                                                                                                                                                                                                                                                               |
| 264     | (108) | CHARACTER  | 64  | SSRBDUCT              | DUCT SAVEAREA                                                                                                                                                                                                                                                                                                          |
| 328     | (148) | CHARACTER  | 984 | SSRBFRRS              | FRR STACK SAVEAREA.                                                                                                                                                                                                                                                                                                    |
| 1312    | (520) | CHARACTER  | 4   | SSRBR520              | Reserved.                                                                                                                                                                                                                                                                                                              |
| 1316    | (524) | SIGNED     | 4   | SSRBSSD               | Address of this SRB's SSD, if the SSRB is queued to an SSD.                                                                                                                                                                                                                                                            |
| 1320    | (528) | SIGNED     | 4   | (0)                   |                                                                                                                                                                                                                                                                                                                        |
| 1320    | (528) | CHARACTER  | 2   | SSRBR528              | Reserved                                                                                                                                                                                                                                                                                                               |
| 1322    | (52A) | CHARACTER  | 2   | SSRBOPASID            | Original Purge ASID. Similar in function to SSRBORMT.                                                                                                                                                                                                                                                                  |
| 1324    | (52C) | ADDRESS    | 4   | SSRBOPTCB             | Original Purge TCB. Similar in function to SSRBORMT.                                                                                                                                                                                                                                                                   |
| 1328    | (530) | ADDRESS    | 4   | SSRBSUPFRR            | Address of the Supervisor FRR Wrapper routine that is set for SYNCH(YES) SSRBs.                                                                                                                                                                                                                                        |
| 1332    | (534) | CHARACTER  | 4   | SSRBR534              | Reserved                                                                                                                                                                                                                                                                                                               |
| 1336    | (538) | CHARACTER  | 28  | SSRBSUSPINFO          | This area is used to save information about the suspended work unit.                                                                                                                                                                                                                                                   |
| 1336    | (538) | SIGNED     | 1   | SSRBSUSPWUTYPE        | Type (same as WEBTYPE) of workunit suspended waiting for this SRB to complete.                                                                                                                                                                                                                                         |
| 1337    | (539) | CHARACTER  | 3   | SSRBR539              | Reserved.                                                                                                                                                                                                                                                                                                              |
| 1340    | (53C) | CHARACTER  | 16  | SSRBSUSPTOKEN         | (0)                                                                                                                                                                                                                                                                                                                    |
| 1340    | (53C) | CHARACTER  | 8   | SSRBSUSPSTOKEN        | TOKEN of the TCB to resume when this SRB completes. ONLY valid when SSRBSUSPWUTYPE represents a "TCB".                                                                                                                                                                                                                 |
| 1348    | (544) | CHARACTER  | 8   | SSRBSUSPSPTOKEN       | STOKEN portion of the TCB to resume when this SRB completes. Valid for all SSRBSUSPWUTYPE types.                                                                                                                                                                                                                       |
| 1356    | (54C) | ADDRESS    | 4   | SSRBSUSPRBADDR        | SPTOKEN of the SRB to resume when this SRB completes. ONLY valid when SSRBSUSPWUTYPE represents an "SSRB".                                                                                                                                                                                                             |
| 1360    | (550) | CHARACTER  | 4   | SSRBSUSPRBRESUMETOKEN | Address of the RB that was suspended when the SYNCH(YES) caller was suspended. ONLY valid when SSRBSUSPWUTYPE represents an "SSRB".                                                                                                                                                                                    |
| 1364    | (554) | CHARACTER  | 24  | SSRBSYNCHINFO         | RB Token for which to suspended task. ONLY valid when SSRBSUSPWUTYPE represents a "TCB".                                                                                                                                                                                                                               |
| 1364    | (554) | SIGNED     | 4   | SSRBSYNCHCOMP         | This area is used to save the completion information about this SRB for the workunit that is to be resumed. This area is only valid if SSRBSUSPWUTYPE is nonzero. This area is used as the backend processing of IEAMSCHD SYNCH(YES) processing by IEAVSCHD to indicate to its caller the completion info of this SRB. |
| 1368    | (558) | ADDRESS    | 4   | SSRBSYNCHCOMPADDR     | Indicates the completion type for this SRB.                                                                                                                                                                                                                                                                            |
| 1372    | (55C) | SIGNED     | 4   | SSRBSYNCHCODE         | Address of the storage to update with the completion type.                                                                                                                                                                                                                                                             |
| 1376    | (560) | ADDRESS    | 4   | SSRBSYNCHCODEADDR     | Indicates the code associated with the completion type for this SRB.                                                                                                                                                                                                                                                   |
|         |       |            |     |                       | Address of the storage to update with the associated code.                                                                                                                                                                                                                                                             |

## SSRB Cross Reference

| Offsets |       |            |     |                        |                                                                        |
|---------|-------|------------|-----|------------------------|------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim)             | Description                                                            |
| 1380    | (564) | SIGNED     | 4   | SSRBSYNCHRSN           | Indicates the reason associated with the completion type for this SRB. |
| 1384    | (568) | ADDRESS    | 4   | SSRBSYNCHRSNADDR       | Address of the storage to update with the associated code.             |
| 1388    | (56C) | CHARACTER  | 1   | SSRBR56C (0)           | Old label                                                              |
| 1388    | (56C) | CHARACTER  | 8   | SSRBSUSPT6RBOPSW       | RBOPSW from T6 SVC issuer                                              |
| 1396    | (574) | SIGNED     | 4   | SSRBSUSPT6FLAGS<br>(0) | Flags                                                                  |
| 1396    | (574) | CHARACTER  | 2   |                        | Flags                                                                  |
| 1398    | (576) | SIGNED     | 2   | SSRBSUSPT6HOMEASID     | Home ASID                                                              |
| 1400    | (578) | ADDRESS    | 4   | SSRBSUSPT6TASKWEB@     | Suspended task's WEB addr                                              |
| 1404    | (57C) | CHARACTER  | 12  | SSRBR57C               | Reserved.                                                              |
| 1416    | (588) | CHARACTER  | 100 | SSRBAFPR               | FPRs 1,3,5,7-15,FPCR                                                   |
| 1516    | (5EC) | BITSTRING  | 1   | SSRBESSFL (0)          | Extended saving flags                                                  |
| 1516    | (5EC) | BITSTRING  | 1   | SSRBFPFL               | FP Flags                                                               |
|         |       | 1... ....  |     | SSRBBFP                | "X'80" Extended FP saving                                              |
| 1517    | (5ED) | CHARACTER  | 3   | SSRBR5ED               | Reserved                                                               |
| 1520    | (5F0) | CHARACTER  | 64  | SSRBG64H               | High-order halves of GPRs                                              |
| 1584    | (630) | BITSTRING  | 8   | SSRBRNE                | ESAME page fault address                                               |
| 1592    | (638) | DBL WORD   | 8   | SSRBEND (0)            | END OF SSRB.                                                           |
| 1592    | (638) | X'638'     | 0   | SSRBLEN                | "SSRBEND-SRBSECT" LENGTH OF SSRB AREA                                  |

## SSRB Cross Reference

| Name      | Hex Offset | Hex Value | Name      | Hex Offset | Hex Value |
|-----------|------------|-----------|-----------|------------|-----------|
| SRB       | 0          |           | SRBSECT   | 0          |           |
| SRBASCB   | 8          |           | SRBSIZE   | 2C         | 2C        |
| SRBASC24  | 9          |           | SRBSP245  | 27         | 40        |
| SRBBLK24  | 27         | 20        | SRBSUSP   | 25         | 8         |
| SRBCPAFF  | C          |           | SRBTOKNP  | 27         | 1         |
| SRBEND    | 2C         |           | SRBWEB    | 20         |           |
| SRBEP     | 14         |           | SRBXESF   | 27         | 10        |
| SRBEPA    | 14         |           | SRB1STS   | 27         | 8         |
| SRBFLC    | C          |           | SSRB      | 30         |           |
| SRBFLGS   | 25         |           | SSRBAFPR  | 588        |           |
| SRBFLGS1  | 27         |           | SSRBALOV  | C4         |           |
| SRBFLNK   | 4          |           | SSRBARS   | C8         |           |
| SRBFRRRA  | 28         |           | SSRBBFP   | 5EC        | 80        |
| SRBFRRCL  | 25         | 10        | SSRBCPSW  | 98         |           |
| SRBFRRREQ | 25         | 20        | SSRBCPUT  | A0         |           |
| SRBHLHI   | 26         |           | SSRBDUCT  | 108        |           |
| SRBID     | 0          |           | SSRBEND   | 638        |           |
| SRBLLHLD  | 25         | 40        | SSRBESSFL | 5EC        |           |
| SRBLLREQ  | 25         | 80        | SSRBFPFL  | 5EC        |           |
| SRBMAIN   | 27         | 80        | SSRBFPRS  | 30         |           |
| SRBMODE   | 14         | 80        | SSRBFPR0  | 30         |           |
| SRBMSCHD  | 27         | 2         | SSRBFPR2  | 38         |           |
| SRBPARM   | 1C         |           | SSRBFPR4  | 40         |           |
| SRBPASID  | E          |           | SSRBFPR6  | 48         |           |
| SRBPKF    | 24         |           | SSRBFRRS  | 148        |           |
| SRBPMCS   | 27         | 4         | SSRBGPRA  | 80         |           |
| SRBPNONQ  | 25         | 4         | SSRBGPRB  | 84         |           |
| SRBPRIOR  | 25         |           | SSRBGPRC  | 88         |           |
| SRBPSYS   | 25         | 0         | SSRBGPRD  | 8C         |           |
| SRBPTCB   | 10         |           | SSRBGPRE  | 90         |           |
| SRBRMODE  | 18         | 80        | SSRBGPRF  | 94         |           |
| SRBRMTR   | 18         |           | SSRBGPRS  | 58         |           |
| SRBRMTRA  | 18         |           | SSRBGPR0  | 58         |           |
| SRBSAVE   | 20         |           | SSRBGPR1  | 5C         |           |



| Name                  | Hex<br>Offset | Hex<br>Value | Name     | Hex<br>Offset | Hex<br>Value |
|-----------------------|---------------|--------------|----------|---------------|--------------|
| SSRBGPR2              | 60            |              |          | 568           |              |
| SSRBGPR3              | 64            |              | SSRBTIME | A8            |              |
| SSRBGPR4              | 68            |              | SSRBTRAN | 50            |              |
| SSRBGPR5              | 6C            |              | SSRBTRNE | 630           |              |
| SSRBGPR6              | 70            |              | SSRBTYPE | 56            |              |
| SSRBGPR7              | 74            |              | SSRBXSB  | B0            |              |
| SSRBGPR8              | 78            |              |          |               |              |
| SSRBGPR9              | 7C            |              |          |               |              |
| SSRBG64H              | 5F0           |              |          |               |              |
| SSRBLEN               | 638           | 638          |          |               |              |
| SSRBLSA1              | B8            |              |          |               |              |
| SSRBLSDP              | C0            |              |          |               |              |
| SSRBNTMR              | A0            | 80           |          |               |              |
| SSRBOPASID            | 52A           |              |          |               |              |
| SSRBOPTCB             | 52C           |              |          |               |              |
| SSRBORMT              | B4            |              |          |               |              |
| SSRBROBC              | BC            |              |          |               |              |
| SSRBR057              | 57            |              |          |               |              |
| SSRBR5ED              | 5ED           |              |          |               |              |
| SSRBR520              | 520           |              |          |               |              |
| SSRBR528              | 528           |              |          |               |              |
| SSRBR534              | 534           |              |          |               |              |
| SSRBR539              | 539           |              |          |               |              |
| SSRBR56C              | 56C           |              |          |               |              |
| SSRBR57C              | 57C           |              |          |               |              |
| SSRBSAFN              | 54            |              |          |               |              |
| SSRBSECT              | 0             | 0            |          |               |              |
| SSRBSSD               | 524           |              |          |               |              |
| SSRBSSTA              | B4            | 40           |          |               |              |
| SSRBSSTD              | B4            | 80           |          |               |              |
| SSRBSSTE              | B4            | 20           |          |               |              |
| SSRBSUPFRR            | 530           |              |          |               |              |
| SSRBSUSPINFO          | 538           |              |          |               |              |
| SSRBSUSPRBADDR        | 54C           |              |          |               |              |
| SSRBSUSPRBRESUMETOKEN | 550           |              |          |               |              |
| SSRBSUSPSPTOKEN       | 544           |              |          |               |              |
| SSRBSUSPSTOKEN        | 53C           |              |          |               |              |
| SSRBSUSPTTOKEN        | 53C           |              |          |               |              |
| SSRBSUSPT6FLAGS       | 574           |              |          |               |              |
| SSRBSUSPT6HOMEASID    | 576           |              |          |               |              |
| SSRBSUSPT6RBOPSW      | 56C           |              |          |               |              |
| SSRBSUSPT6TASKWEB@    | 578           |              |          |               |              |
| SSRBSUSPWUTYPE        | 538           |              |          |               |              |
| SSRBSYNCHCODE         | 55C           |              |          |               |              |
| SSRBSYNCHCODEADDR     | 560           |              |          |               |              |
| SSRBSYNCHCOMP         | 554           |              |          |               |              |
| SSRBSYNCHCOMPADDR     | 558           |              |          |               |              |
| SSRBSYNCHINFO         | 554           |              |          |               |              |
| SSRBSYNCHRSN          | 564           |              |          |               |              |
| SSRBSYNCHRSNADDR      |               |              |          |               |              |



## SSRQ Heading Information

**Common Name:** SSOB Extension for Re-enqueue of a Job  
**Macro ID:** IEFSSRQ  
**DSECT Name:** SSRQ  
**Owning Component:** Initiator/terminator (SC1B6)  
**Subpool and Key:** User subpool and key  
**Size:** 20 bytes for SSOB plus 8 bytes for SSRQ  
**Created by:** IEFSD166  
**Pointed to by:** SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** Parameter list for the subsystem interface.

### SSRQ Map

| Offsets |     |            |     |            |                        |
|---------|-----|------------|-----|------------|------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description            |
| 0       | (0) | STRUCTURE  | 8   | SSRQ       |                        |
| 0       | (0) | SIGNED     | 2   | SSRQLEN    | LENGTH OF SSRQ         |
| 2       | (2) | SIGNED     | 2   | *          | RESERVED               |
| 4       | (4) | SIGNED     | 2   | SSRQSTEP   | STEP NUMBER            |
| 6       | (6) | BITSTRING  | 1   | SSRQFLG1   | REASON FOR RE-ENQUEING |
|         |     | 1... ....  |     | SSRQSTRS   | STEP RESTART           |
|         |     | .1.. ....  |     | SSRQCHRS   | CHECKPOINT RESTART     |
|         |     | ..1. ....  |     | SSRQCNRS   | CONTINUE RESTART       |
|         |     | ...1 ....  |     | SSRQHOLD   | HOLD THE JOB           |
|         |     | .... 1111  |     | *          | RESERVED               |
| 7       | (7) | CHARACTER  | 1   | *          | RESERVED               |

### SSRQ Constants

| Len                                   | Type    | Value | Name     | Description                            |
|---------------------------------------|---------|-------|----------|----------------------------------------|
| 2                                     | DECIMAL | 13    | SSOBRENQ | REENQUEUE A JOB FUNCTION ID (SSOBFUNC) |
| ----- Comment -----                   |         |       |          |                                        |
| JOB REENQUEUE RETURN CODES (SSOBRETN) |         |       |          |                                        |
| ----- End of Comment -----            |         |       |          |                                        |
| 4                                     | DECIMAL | 36    | SSRQPERR | PROGRAM ERROR                          |

### SSRQ Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| SSRQ     | 0          |           |
| SSRQCHRS | 6          | 40        |
| SSRQCNRS | 6          | 20        |
| SSRQFLG1 | 6          |           |
| SSRQHOLD | 6          | 10        |
| SSRQLEN  | 0          |           |
| SSRQSTEP | 4          |           |
| SSRQSTRS | 6          | 80        |



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**SSRR Programming Interface information**

Programming Interface information

**SSRR**

End of Programming Interface information

## SSRR Heading Information

**Common Name:** SSOB Extension for Request/Return Job ID  
**Macro ID:** IEFSSRR  
**DSECT Name:** SSRR  
**Owning Component:** JES2 (SC141)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: User subpool  
 Key: User key  
 Residency: Any  
**Size:** See SSRRSIZE equate @Z02P986  
**Created by:** IEEMB803  
 SSI caller  
**Pointed to by:** SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** Parameter list for the subsystem interface.  
 SSOB extension used for the REQUEST/RETURN JOBID function

## SSRR Map

| Offsets                                                                                                                                                                                                                                                                  |     |            |     |            |                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|-----|------------|-------------------------------------------|
| Dec                                                                                                                                                                                                                                                                      | Hex | Type/Value | Len | Name (Dim) | Description                               |
| 0                                                                                                                                                                                                                                                                        | (0) | STRUCTURE  | 0   |            |                                           |
| 0                                                                                                                                                                                                                                                                        | (0) | X'14'      | 0   | SSOBRQST   | "20" REQUEST JOB ID FUNCTION ID(SSOBFUNC) |
| 0                                                                                                                                                                                                                                                                        | (0) | X'15'      | 0   | SSOBRTRN   | "21" RETURN JOB ID FUNCTION ID(SSOBFUNC)  |
| Comment                                                                                                                                                                                                                                                                  |     |            |     |            |                                           |
| REQUEST/RETURN JOB ID RETURN CODES (SSOBRETN)                                                                                                                                                                                                                            |     |            |     |            |                                           |
| End of Comment                                                                                                                                                                                                                                                           |     |            |     |            |                                           |
| 0                                                                                                                                                                                                                                                                        | (0) | X'0'       | 0   | SSRR0K     | "0" REQUEST/RETURN SUCCESSFUL             |
| 0                                                                                                                                                                                                                                                                        | (0) | X'4'       | 0   | SSRRFAIL   | "4" REQUEST/RETURN UNSUCCESSFUL           |
| 0                                                                                                                                                                                                                                                                        | (0) | X'8'       | 0   | SSRRFREQ   | "8" REQUEST WITHOUT A MATCHING RETURN     |
| 0                                                                                                                                                                                                                                                                        | (0) | X'C'       | 0   | SSRRFRET   | "12" RETURN WITHOUT A MATCHING REQUEST    |
| 0                                                                                                                                                                                                                                                                        | (0) | X'10'      | 0   | SSRRNOEC   | "16" BAD ECB SUPPLIED ON REQUEST CALL     |
| 0                                                                                                                                                                                                                                                                        | (0) | X'14'      | 0   | SSRRPRME   | "20" Parameter list error                 |
| 0                                                                                                                                                                                                                                                                        | (0) | X'18'      | 0   | SSRRJLGE   | "24" JESLOG specification error           |
| 0                                                                                                                                                                                                                                                                        | (0) | X'24'      | 0   | SSRRPERR   | "36" PROGRAM ERROR                        |
| Comment                                                                                                                                                                                                                                                                  |     |            |     |            |                                           |
| ADDITIONAL DATA FOR THIS EXTENSION                                                                                                                                                                                                                                       |     |            |     |            |                                           |
| End of Comment                                                                                                                                                                                                                                                           |     |            |     |            |                                           |
| 0                                                                                                                                                                                                                                                                        | (0) | X'0'       | 0   | SSRRBGN    | ***                                       |
| 0                                                                                                                                                                                                                                                                        | (0) | ADDRESS    | 2   | SSRRLEN    | R/R EXTENSION LENGTH                      |
| Comment                                                                                                                                                                                                                                                                  |     |            |     |            |                                           |
| <p>-----</p> <p>To explicitly request that a joblog be created, turn on SSRRJOBL. A joblog will NOT be created if SSRRNJBL is on. An error condition exists if both SSRRJOBL and SSRRNJBL are on. If both are off, a joblog will be created by default.</p> <p>-----</p> |     |            |     |            |                                           |
| End of Comment                                                                                                                                                                                                                                                           |     |            |     |            |                                           |
| 2                                                                                                                                                                                                                                                                        | (2) | BITSTRING  | 1   | SSRRFLG1   | SSRR FLAG BYTE                            |

| Offsets |      |            |     |            |                                                                                 |
|---------|------|------------|-----|------------|---------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                     |
|         |      | 1... ....  |     | SSRRJNMP   | "X'80" INPUT JOB NAME IS PRESENT                                                |
|         |      | .1.. ....  |     | SSRRUASC   | "X'40" USE JOB NAME IN ASCB                                                     |
|         |      | ..1. ....  |     | SSRRSYSL   | "X'20" THIS IS THE SYSTEM LOG                                                   |
|         |      | ...1 ....  |     | SSRRJOBL   | "X'10" Allocate a joblog                                                        |
|         |      | .... 1...  |     | SSRRNJBL   | "X'08" Do not allocate a joblog (mutually exclusive with SSRRELIG and SSRRNOSP) |
| 3       | (3)  | ADDRESS    | 1   | SSRRVER    | VERSION OF EXTENSION                                                            |
| 3       | (3)  | X'2'       | 0   | SSRRCVER   | "2" Current Version                                                             |
| 4       | (4)  | ADDRESS    | 4   | SSRRSECB   | REQUEST JOB ID STOP ECB POINTER                                                 |
| 8       | (8)  | CHARACTER  | 8   | SSRRJNM    | INPUT JOB NAME                                                                  |
| 16      | (10) | BITSTRING  | 3   |            | Reserved for future use and must be zero                                        |
| 19      | (13) | BITSTRING  | 5   | SSRRLOG    | JESLOG control information                                                      |
| 19      | (13) | BITSTRING  | 1   | SSRRLFLG   | Flags                                                                           |
|         |      | 1... ....  |     | SSRRELIG   | "B'10000000" Spin eligible (mutually exclusive with SSRRNJBL and SSRRNOSP)      |

Comment

SSRRTIMI, SSRRTIMD and SSRRLINE are mutually exclusive. If SSRRELIG is on and none of the three is on, that implies that an operator command can be used to spin output, but there is no automatic spinning. It is an error if any of the 3 bits are on and SSRRELIG is off.

End of Comment

|  |  |           |  |          |                                                                      |
|--|--|-----------|--|----------|----------------------------------------------------------------------|
|  |  | .1.. .... |  | SSRRTIMI | "B'01000000" Spin on time interval                                   |
|  |  | ..1. .... |  | SSRRTIMD | "B'00100000" Spin on time of day                                     |
|  |  | ...1 .... |  | SSRRLINE | "B'00010000" Spin upon line delta                                    |
|  |  | .... 1... |  | SSRRNOSP | "B'00001000" No Spin (mutually exclusive with SSRRELIG and SSRRNJBL) |

Comment

EQU B'00000111' Reserved for future use

End of Comment

Comment

SSRRSVAL has one of the following values:

- o 0 if no bit on in SSRRLFLG or just SSRRELIG or SSRRNOSP is on.
- o Increment in minutes if SSRRTIMI on.  
Increment must be 10 minutes or more.
- o Number of minutes past midnight if SSRRTIMD on.  
The range is 0 through 23:59 (23 60+59).
- o Line delta if SSRRLINE on.  
The range is 500 through 999 million.

End of Comment

|    |      |        |   |          |                                          |
|----|------|--------|---|----------|------------------------------------------|
| 20 | (14) | SIGNED | 4 | SSRRSVAL | Spin value                               |
| 24 | (18) | SIGNED | 4 | (4)      | Reserved for future use and must be zero |
| 24 | (18) | X'28'  | 0 | SSRRSIZE | "*-SSRRBGN" R/R EXTENSION LENGTH         |
| 24 | (18) | X'28'  | 0 | SSOBLENE | "SSOBHSIZ+SSRRSIZE"                      |

## SSRR Cross Reference

## SSRR Cross Reference

| Name      | Hex<br>Offset | Hex<br>Value |
|-----------|---------------|--------------|
| SSOBLENE  | 18            | 28           |
| SSOBRQST  | 0             | 14           |
| SSOBRTRN  | 0             | 15           |
| SSRRBGN   | 0             | 0            |
| SSRRCVER  | 3             | 2            |
| SSRRRELIG | 13            | 80           |
| SSRRFAIL  | 0             | 4            |
| SSRRFLG1  | 2             | 0            |
| SSRRFREQ  | 0             | 8            |
| SSRRFRET  | 0             | C            |
| SSRRJLGE  | 0             | 18           |
| SSRRJNM   | 8             | 40404040     |
| SSRRJNMP  | 2             | 80           |
| SSRRJOB   | 2             | 10           |
| SSRRLEN   | 0             |              |
| SSRRFLG   | 13            |              |
| SSRRLINE  | 13            | 10           |
| SSRRLOG   | 13            |              |
| SSRRNJBL  | 2             | 8            |
| SSRRNOEC  | 0             | 10           |
| SSRRNOSP  | 13            | 8            |
| SSRRROK   | 0             | 0            |
| SSRRPERR  | 0             | 24           |
| SSRRPRME  | 0             | 14           |
| SSRRSECB  | 4             |              |
| SSRRSIZE  | 18            | 28           |
| SSRRSVAL  | 14            |              |
| SSRRSYSL  | 2             | 20           |
| SSRRTIMD  | 13            | 20           |
| SSRRTIMI  | 13            | 40           |
| SSRRUASC  | 2             | 40           |
| SSRRVER   | 3             |              |



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# SSSF Programming Interface Information

Programming Interface Information

**SSSF**

End of Programming Interface Information

## SSSF Heading Information

**Common Name:** Scheduler Facility Services SSI Extension  
**Macro ID:** IAZSSSF  
**DSECT Name:** IAZSSSF  
**Owning Component:** SC1BH - JES2  
**Eye-Catcher ID:** SSSF  
 Offset: 0  
 Length: 4  
**Storage Attributes:** Subpool: caller  
 Key: caller required in supervisor state  
 Residency: VIRTUAL - any REAL - any FREQUENCY = One per call to function code 70  
**Size:** SSSFHSZE + SSSFMRSZ  
**Created by:** caller of SSI function 'SSOBSFS' (70)  
**Pointed to by:** SSOBINDV in SSOB header  
**Serialization:** none  
**Function:** This macro provides the mapping of the SSOB extension used to make requests of a target subsystem's Scheduler Facility Services Processor. The requests are limited to services which can affect SUBSYSTEM MAINTAINED scheduler data, e.g.SWBUTU data.

## SSSF Map

| Offsets                                                           |     |            |     |            |                                      |
|-------------------------------------------------------------------|-----|------------|-----|------------|--------------------------------------|
| Dec                                                               | Hex | Type/Value | Len | Name (Dim) | Description                          |
| 0                                                                 | (0) | STRUCTURE  | 0   |            |                                      |
| 0                                                                 | (0) | X'46'      | 0   | SSOBSFS    | "70" Scheduler Facility Services     |
| Comment                                                           |     |            |     |            |                                      |
| Scheduler Facility Services SSI RETURN CODES (SSOBRETN)           |     |            |     |            |                                      |
| Any other values are values propagated from installation exit 45. |     |            |     |            |                                      |
| End of Comment                                                    |     |            |     |            |                                      |
| 0                                                                 | (0) | X'0'       | 0   | SSSFOK     | "0" Request processed successfully   |
| 0                                                                 | (0) | X'8'       | 0   | SSSFUERR   | "8" Request rejected,see reason code |
| 0                                                                 | (0) | X'C'       | 0   | SSSFEXTE   | "12" No Extension found              |
| 0                                                                 | (0) | X'10'      | 0   | SSSFNOST   | "16" No storage to process reqst     |
| Comment                                                           |     |            |     |            |                                      |
| Scheduler Facility Services SSI REASON CODES (SSSFREAS)           |     |            |     |            |                                      |
| Any other values are values propagated from installation exit 45. |     |            |     |            |                                      |
| End of Comment                                                    |     |            |     |            |                                      |
| 0                                                                 | (0) | X'10'      | 0   | SSSFNOJ2   | "16" JES2 not up and running         |
| 0                                                                 | (0) | X'14'      | 0   | SSSFINV    | "20" Invalid function request        |
| 0                                                                 | (0) | X'18'      | 0   | SSSFINVE   | "24" Invalid SSSF extension          |
| 0                                                                 | (0) | X'20'      | 0   | SSSFNOAU   | "32" No authorization for request    |
| 0                                                                 | (0) | X'24'      | 0   | SSSFINRI   | "36" Invalid input to request        |
| 0                                                                 | (0) | X'28'      | 0   | SSSFEXC    | "40" Exit cancelled request          |
| 0                                                                 | (0) | X'2C'      | 0   | SSSFDISA   | "44" Scheduler Services disabled     |

| Offsets                                                                                              |      |            |     |              |                                                                                                                      |
|------------------------------------------------------------------------------------------------------|------|------------|-----|--------------|----------------------------------------------------------------------------------------------------------------------|
| Dec                                                                                                  | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                          |
| Comment                                                                                              |      |            |     |              |                                                                                                                      |
| Scheduler Facility Services SSI FUNCTION REQUEST CODES.                                              |      |            |     |              |                                                                                                                      |
| End of Comment                                                                                       |      |            |     |              |                                                                                                                      |
| 0                                                                                                    | (0)  | X'4'       | 0   | SSSF SWBM    | "4" SWB modify of output descriptors                                                                                 |
| Comment                                                                                              |      |            |     |              |                                                                                                                      |
| Scheduler Facility Services SSI Extension Header                                                     |      |            |     |              |                                                                                                                      |
| End of Comment                                                                                       |      |            |     |              |                                                                                                                      |
| 0                                                                                                    | (0)  | X'0'       | 0   | SSSF BGN     | ***                                                                                                                  |
| 0                                                                                                    | (0)  | CHARACTER  | 4   | SSSFID       | Acronym set to 'SSSF'                                                                                                |
| 4                                                                                                    | (4)  | ADDRESS    | 2   | SSSFLEN      | SSSF SSOB extension length Equals Extension header and request dependent area                                        |
| 6                                                                                                    | (6)  | BITSTRING  | 1   | SSSF RSV1    | Reserved for JES2                                                                                                    |
| 7                                                                                                    | (7)  | BITSTRING  | 1   | SSSFVER      | Version number of IAZSSSF                                                                                            |
| 7                                                                                                    | (7)  | X'1'       | 0   | SSSF CVER    | "1" Current version number of IAZSSSF - Version 4.2.0<br>SSSFVER MUST = SSSFCVER                                     |
| 8                                                                                                    | (8)  | SIGNED     | 2   | SSSFREAS     | SSSF Reason code                                                                                                     |
| 10                                                                                                   | (A)  | CHARACTER  | 1   | SSSFREQF     | Function request                                                                                                     |
| 11                                                                                                   | (B)  | BITSTRING  | 1   | SSSF FLG1    | Flag Byte-defined per request                                                                                        |
| 12                                                                                                   | (C)  | SIGNED     | 4   | SSSF RDA (0) | Request Dependent Area Begins here                                                                                   |
| 12                                                                                                   | (C)  | X'C'       | 0   | SSSFHSZE     | ** -SSSF BGN" Header size                                                                                            |
| Comment                                                                                              |      |            |     |              |                                                                                                                      |
| SFS Modify Request Dependent Extension Area<br>Reason Codes for Scheduler Request MODIFY (SSSF MREA) |      |            |     |              |                                                                                                                      |
| End of Comment                                                                                       |      |            |     |              |                                                                                                                      |
| 12                                                                                                   | (C)  | X'0'       | 0   | SSSF MOK     | "0" Modify processing successful                                                                                     |
| 12                                                                                                   | (C)  | X'4'       | 0   | SSSF MTUE    | "4" Modify/Erase TU error                                                                                            |
| 12                                                                                                   | (C)  | X'8'       | 0   | SSSF MJBE    | "8" Modify jobname/jobid error                                                                                       |
| 12                                                                                                   | (C)  | X'C'       | 0   | SSSF MGRP    | "12" Modify groupname error                                                                                          |
| 12                                                                                                   | (C)  | X'10'      | 0   | SSSF MNOS    | "16" No storage to process request                                                                                   |
| Comment                                                                                              |      |            |     |              |                                                                                                                      |
| SSSF FLG1 BIT DEFINITIONS                                                                            |      |            |     |              |                                                                                                                      |
| End of Comment                                                                                       |      |            |     |              |                                                                                                                      |
|                                                                                                      |      | 1... ..    |     | SSSFDEST     | "B'10000000" Destination check indicator                                                                             |
| 12                                                                                                   | (C)  | CHARACTER  | 8   | SSSFJB NM    | JOBNAME                                                                                                              |
| 20                                                                                                   | (14) | CHARACTER  | 8   | SSSFJBID     | JOBID                                                                                                                |
| 28                                                                                                   | (1C) | CHARACTER  | 8   | SSSFGRPN     | Output group name                                                                                                    |
| 36                                                                                                   | (24) | SIGNED     | 2   | SSSFGRP1     | Output group - first ID                                                                                              |
| 38                                                                                                   | (26) | SIGNED     | 2   | SSSFGRP2     | Output group - second ID                                                                                             |
| 40                                                                                                   | (28) | CHARACTER  | 8   | SSSF CART    | CART for WTO responses                                                                                               |
| 48                                                                                                   | (30) | SIGNED     | 4   | SSSF CNID    | Console ID for WTO responses                                                                                         |
| 52                                                                                                   | (34) | SIGNED     | 2   | SSSF MREA    | Error reason code for modify                                                                                         |
| 54                                                                                                   | (36) | SIGNED     | 2   | SSSFMDR1     | Reserved for IBM use                                                                                                 |
| 56                                                                                                   | (38) | CHARACTER  | 8   | SSSFMDR2     | Reserved for IBM use Output descriptor lists are in SWBTU/TU format as required by the SCHEDULER JCL facility (SJF). |
| 64                                                                                                   | (40) | ADDRESS    | 4   | SSSFMDAD     | Address of output descriptor Modify list in SWBTU format                                                             |
| 68                                                                                                   | (44) | ADDRESS    | 4   | SSSF ERAD    | Address of output descriptor Erase list in TU format                                                                 |
| 72                                                                                                   | (48) | SIGNED     | 2   | SSSFMDLN     | Length of Modify list (SWBTU)                                                                                        |
| 74                                                                                                   | (4A) | SIGNED     | 2   | SSSFERLN     | Length of Erase list (TU)                                                                                            |
| 74                                                                                                   | (4A) | X'40'      | 0   | SSSF MRSZ    | ** -SSSF RDA" Size of modify function area                                                                           |

## SSSF Cross Reference

### SSSF Cross Reference

| Name      | Hex<br>Offset | Hex<br>Value |
|-----------|---------------|--------------|
| SSOBSFS   | 0             | 46           |
| SSSF BGN  | 0             | 0            |
| SSSFCART  | 28            |              |
| SSSFCNID  | 30            |              |
| SSSFCVER  | 7             | 1            |
| SSSFDEST  | C             | 80           |
| SSSFDISA  | 0             | 2C           |
| SSSFERAD  | 44            |              |
| SSSFERLN  | 4A            |              |
| SSSFEXC   | 0             | 28           |
| SSSFEXTE  | 0             | C            |
| SSSFFLG1  | B             |              |
| SSSFGRPN  | 1C            |              |
| SSSFGRP1  | 24            |              |
| SSSFGRP2  | 26            |              |
| SSSFHSZE  | C             | C            |
| SSSFID    | 0             | E2E2E2C6     |
| SSSFINRI  | 0             | 24           |
| SSSFINVE  | 0             | 18           |
| SSSFINVF  | 0             | 14           |
| SSSFJBID  | 14            |              |
| SSSFJBNM  | C             |              |
| SSSFLEN   | 4             |              |
| SSSFMDAD  | 40            |              |
| SSSFMDLN  | 48            |              |
| SSSFMDR1  | 36            |              |
| SSSFMDR2  | 38            |              |
| SSSFMGRP  | C             | C            |
| SSSFMJBE  | C             | 8            |
| SSSFMNOS  | C             | 10           |
| SSSFMOK   | C             | 0            |
| SSSFMREA  | 34            |              |
| SSSFMR SZ | 4A            | 40           |
| SSSFMTUE  | C             | 4            |
| SSSFNOAU  | 0             | 20           |
| SSSFNOJ2  | 0             | 10           |
| SSSFNOST  | 0             | 10           |
| SSSFOK    | 0             | 0            |
| SSSFRDA   | C             |              |
| SSSFREAS  | 8             |              |
| SSSFREQF  | A             |              |
| SSSFRSV1  | 6             |              |
| SSSFSWBM  | 0             | 4            |
| SSSFUERR  | 0             | 8            |
| SSSFVER   | 7             |              |

## SSSI Heading Information

**Common Name:** SSOB Extension for Step Initiation  
**Macro ID:** IEFSSSI  
**DSECT Name:** SSSI  
**Owning Component:** Initiator/terminator (SC1B6)  
**Subpool and Key:** User subpool and key  
**Size:** 20 bytes for SSOB plus 16 bytes for SSSI  
**Created by:** IEFSD162  
**Pointed to by:** SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** Parameter list for the subsystem interface.

### SSSI Map

| Offsets |     |            |     |            |                |
|---------|-----|------------|-----|------------|----------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description    |
| 0       | (0) | STRUCTURE  | 16  | SSSI       |                |
| 0       | (0) | SIGNED     | 2   | SSSILEN    | LENGTH OF SSSI |
| 2       | (2) | SIGNED     | 2   | *          | RESERVED       |

Comment

FOLLOWING FIELDS CONTAIN POINTERS TO THE INDICATED DATA,  
NUMBERS IN PARENTHESES INDICATE LENGTH OF AREA POINTED TO.

End of Comment

|    |     |         |   |          |                                                                                                                                     |
|----|-----|---------|---|----------|-------------------------------------------------------------------------------------------------------------------------------------|
| 4  | (4) | ADDRESS | 4 | SSSIPSNM | FOR A NORMAL JOB, POINTER TO NAME ON THE 'EXEC PGM=' STATEMENT. FOR A STARTED JOB, POINTER TO THE ID, UNIT TYPE, OR 'STARTING'. (8) |
| 8  | (8) | ADDRESS | 4 | SSSIPPSN | FOR A NORMAL JOB, POINTER TO NAME ON THE 'EXEC PROC=' STATEMENT (OR BLANKS). FOR A STARTED JOB, POINTER TO BLANKS. (8)              |
| 12 | (C) | ADDRESS | 4 | SSSIPSNO | PTR TO STEP NUMBER(1)                                                                                                               |

### SSSI Constants

| Len | Type    | Value | Name     | Description                         |
|-----|---------|-------|----------|-------------------------------------|
| 2   | DECIMAL |       | SSOBNSSI | NOTIFY SUBSYSTEM OF STEP INITIATION |



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## SSSM Programming Interface information

Programming Interface information

SSSM

End of Programming Interface information

### SSSM Heading Information

**Common Name:** SUBSYSTEM ACCOUNTING PARAMETERS  
**Macro ID:** IEFSSSM  
**DSECT Name:** SSSM  
**Owning Component:** System Management Facilities (SC100)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: 241  
 Key: 0  
 Residency: Below  
**Size:** 16 bytes ('10' in hex)  
 FREQUENCY = 1 per subsystem  
**Created by:** IEEMB832  
**Pointed to by:** SSOBINDV  
**Serialization:** None  
**Function:** THIS MACRO MAPS ADDITIONAL INFORMATION PASSED TO  
 SUBSYSTEMS AS PART OF SMF'S SET PROCESSING

### SSSM Map

| Offsets                                                 |     |            |     |            |                                          |
|---------------------------------------------------------|-----|------------|-----|------------|------------------------------------------|
| Dec                                                     | Hex | Type/Value | Len | Name (Dim) | Description                              |
| 0                                                       | (0) | STRUCTURE  | 0   |            |                                          |
| 0                                                       | (0) | X'3A'      | 0   | SSOBSMAC   | "58" SUBSYSTEM ACCOUNTING FUNCTION ID    |
| Comment                                                 |     |            |     |            |                                          |
| SUBSYSTEM ACCOUNTING RETURN CODES (SSOBRETN)            |     |            |     |            |                                          |
| NO ADDITIONAL SUBSYSTEM ACCOUNTING RETURN CODES DEFINED |     |            |     |            |                                          |
| End of Comment                                          |     |            |     |            |                                          |
| 0                                                       | (0) | X'0'       | 0   | SSSMBGN    | *** SUBSYSTEM ACCOUNTING BEGINNING       |
| 0                                                       | (0) | ADDRESS    | 2   | SSSMLEN    | SUBSYSTEM ACCOUNTING EXTENSION LENGTH    |
| 2                                                       | (2) | BITSTRING  | 8   | SSSMFLGS   | INPUT SOURCE FLAGS                       |
|                                                         |     | 1... ..    |     | SSSMFMFA   | "X'80" SMF ACTIVE                        |
|                                                         |     | ..1. ....  |     | SSSMMEMB   | "X'20" FROM PARMLIB MEMBER               |
|                                                         |     | ...1 ....  |     | SSSMRPLY   | "X'10" FROM OPERATOR REPLY               |
|                                                         |     | .... 1...  |     | SSSMDFLT   | "X'08" FROM DEFAULT                      |
|                                                         |     | .... .1..  |     | SSSMCONF   | "X'04" CHANGED BY CONFLICTING OPTIONS    |
|                                                         |     | .... ..1.  |     | SSSMCHNG   | "X'02" CHANGED BY IPL, SET SMF OR SETSMF |
| 10                                                      | (A) | CHARACTER  | 1   | SSSMOCON   | OLD CONSOLE ID                           |
| 11                                                      | (B) | CHARACTER  | 4   | SSSMCNID   | CONSOLE ID                               |
| 15                                                      | (F) | CHARACTER  | 8   | SSSTOKN    | COMMAND & RESPONSE TOKEN                 |
| 15                                                      | (F) | X'17'      | 0   | SSSMSIZE   | **_SSSMBGN" EXTENSION LENGTH             |



**SSSM Cross Reference**

| <b>Name</b> | <b>Hex<br/>Offset</b> | <b>Hex<br/>Value</b> |
|-------------|-----------------------|----------------------|
| SSOBSMAC    | 0                     | 3A                   |
| SSSMBGN     | 0                     | 0                    |
| SSSMCHNG    | 2                     | 2                    |
| SSSMCNID    | B                     |                      |
| SSSMCONF    | 2                     | 4                    |
| SSSMDFLT    | 2                     | 8                    |
| SSSMFLGS    | 2                     |                      |
| SSSMLEN     | 0                     |                      |
| SSSMMEMB    | 2                     | 20                   |
| SSSMOCON    | A                     |                      |
| SSSMRPLY    | 2                     | 10                   |
| SSSMSIZE    | F                     | 17                   |
| SSSMFMFA    | 2                     | 80                   |
| SSSTOKN     | F                     |                      |



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## SSSO Programming Interface information

Programming Interface information

### SSSO

The following fields are **NOT** programming interface information:

- SSSOFLG3
- SSSOFLG4
- SSSOGRID

End of Programming Interface information

## SSSO Heading Information

**Common Name:** SSOB Extension for Processing SYSOUT Datasets  
**Macro ID:** IEFSSSO  
**DSECT Name:** User specified, optional SSOBEXT if invoked including IEFJSSOB(SO),CONTIG=NO  
**Owning Component:** Subsystem Interface (SC1B6)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: Determined by invoker of IEFSSREQ  
 Key: Determined by invoker of IEFSSREQ  
**Size:** X'B0' bytes with extended SYSOUT data fields (SOEXT=YES)  
 X'78' bytes without extended SYSOUT data fields  
**Created by:** Invoker of IEFSSREQ macro  
**Pointed to by:** SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** Parameter list for the Subsystem Interface for processing sysout datasets.

## SSSO Map

| Offsets |     |            |     |            |                                                                                   |
|---------|-----|------------|-----|------------|-----------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                                                       |
| 0       | (0) | STRUCTURE  | 0   |            |                                                                                   |
| 0       | (0) | X'1'       | 0   | SSOBSOUT   | "1" SYSOUT FUNCTION ID (SSOBFUNC)                                                 |
| 0       | (0) | X'4'       | 0   | SSSOCVER   | "4" CURRENT VERSION NUMBER OF THIS DATA AREA                                      |
| 0       | (0) | X'3'       | 0   | SSSOADDR   | "3" VERSION SINCE WHICH DD NAME IS DEFINED IN THE SSSO EXTENSION                  |
| 0       | (0) | X'4'       | 0   | SSSOGRNM   | "4" FIRST VERSION IN WHICH THE SSSOGRNM, SSSOADDR8 AND SSSOADDR9 FIELDS SUPPORTED |

Comment

PROCESS SYSOUT DATA SETS RETURN CODES (SSOBRETN)

End of Comment

|   |     |           |   |          |                                                             |
|---|-----|-----------|---|----------|-------------------------------------------------------------|
| 0 | (0) | X'0'      | 0 | SSSORTOK | "0" EVERYTHING IS OK                                        |
| 0 | (0) | X'4'      | 0 | SSSOEODS | "4" NO MORE DATA SETS TO SELECT                             |
| 0 | (0) | X'8'      | 0 | SSSONJOB | "8" JOB NOT FOUND                                           |
| 0 | (0) | X'C'      | 0 | SSSOINVA | "12" INVALID SEARCH ARGUMENTS                               |
| 0 | (0) | X'10'     | 0 | SSSOUNAV | "16" UNABLE TO PROCESS NOW                                  |
| 0 | (0) | X'14'     | 0 | SSSODUPJ | "20" DUPLICATE JOB NAMES                                    |
| 0 | (0) | X'18'     | 0 | SSSOINJV | "24" INVALID JOBNAME/JOBID COMBINATION                      |
| 0 | (0) | X'1C'     | 0 | SSSOIDST | "28" INVALID DESTINATION SPECIFIED                          |
| 0 | (0) | X'20'     | 0 | SSSOAUTH | "32" AUTHORIZATION FAILED                                   |
| 0 | (0) | X'24'     | 0 | SSSOTKNM | "36" TOKEN MAP FAILED                                       |
| 0 | (0) | X'0'      | 0 | SSSOBGN  | ***                                                         |
| 0 | (0) | ADDRESS   | 2 | SSSOLEN  | SYSOUT EXTENSION LENGTH                                     |
| 2 | (2) | BITSTRING | 1 | SSSOUFLG | USER SELECTION OPTIONS CLASS ROUTING AND DISPOSITION FLAGS  |
|   |     | 1... .... |   | SSSOSETC | "X'80" USE SSSOCLAS AS DISPOSITION                          |
|   |     | .1.. .... |   | SSSODELC | "X'40" DELETE SELECTED DATA SET                             |
|   |     | ..1. .... |   | SSSOROUT | "X'20" REROUTE SELECTED DATA SET TO DESTINATION IN SSSODEST |
|   |     | ...1 .... |   | SSSOHOLD | "X'10" HOLD ALL SELECTED DATA SETS                          |
|   |     | .... 1... |   | SSSORLSE | "X'08" RELEASE ALL SELECTED DATA SETS                       |

| Offsets                                                                                                                                                                                                                             |      |            |     |            |                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-----|------------|-----------------------------------------------------------------------------|
| Dec                                                                                                                                                                                                                                 | Hex  | Type/Value | Len | Name (Dim) | Description                                                                 |
| Comment                                                                                                                                                                                                                             |      |            |     |            |                                                                             |
| EQU X'07' RESERVED FLAGS                                                                                                                                                                                                            |      |            |     |            |                                                                             |
| End of Comment                                                                                                                                                                                                                      |      |            |     |            |                                                                             |
| 3                                                                                                                                                                                                                                   | (3)  | BITSTRING  | 1   | SSSOVER    | VERSION NUMBER                                                              |
| 4                                                                                                                                                                                                                                   | (4)  | BITSTRING  | 1   | SSSOFLG1   | DATA SET SELECTION CONTROL FLAGS                                            |
|                                                                                                                                                                                                                                     |      | 1... ....  |     | SSSOHLD    | "X'80" SELECTION SHOULD INCLUDE HELD SYSOUT DATA SETS                       |
|                                                                                                                                                                                                                                     |      | .1.. ....  |     | SSSOSCLS   | "X'40" USE CLASS                                                            |
|                                                                                                                                                                                                                                     |      | ..1. ....  |     | SSSODST    | "X'20" USE REMOTE DESTINATION                                               |
| 4                                                                                                                                                                                                                                   | (4)  | X'20'      | 0   | SSSODST    | "SSSODST" ALTERNATE NAME FOR REMOTE DESTINATION                             |
|                                                                                                                                                                                                                                     |      | ...1 ....  |     | SSSOSJBN   | "X'10" USE JOB NAME                                                         |
|                                                                                                                                                                                                                                     |      | .... 1..   |     | SSSOSJBI   | "X'08" USE JOB ID                                                           |
|                                                                                                                                                                                                                                     |      | .... .1..  |     | SSSOSPGM   | "X'04" USE USER WRITER PROGRAM NAME                                         |
|                                                                                                                                                                                                                                     |      | .... ..1.  |     | SSSOSFRM   | "X'02" USE FORM NUMBER                                                      |
| Comment                                                                                                                                                                                                                             |      |            |     |            |                                                                             |
| CAUTION. IF THE SSSOSFR8 BIT IS TURNED ON AND THE JES IS NOT AT THE LEVEL WHICH SUPPORTS 8 BYTE FORMS, THEN THE CALLER WILL GET UNPREDICTABLE RESULTS. THE JES WILL USE THE 4 BYTE FORMS CODE FOR SELECTION (SINCE SSSOSFRM IS ON). |      |            |     |            |                                                                             |
| End of Comment                                                                                                                                                                                                                      |      |            |     |            |                                                                             |
|                                                                                                                                                                                                                                     |      | .... ..1   |     | SSSOSFR8   | "X'01" USE 8 BYTE FORM NUMBER FIELD FOR SELECTION (SSSOSFRM MUST BE ON TOO) |
| 5                                                                                                                                                                                                                                   | (5)  | BITSTRING  | 1   | SSSOFLG2   | CURRENT DATA SET DISPOSITION FLAGS                                          |
|                                                                                                                                                                                                                                     |      | 1... ....  |     | SSSOCTRL   | "X'80" 1 - PROCESSING COMPLETED 0 - RETURN DATA SET NAME                    |
|                                                                                                                                                                                                                                     |      | .1.. ....  |     | SSSOCHKP   | "X'40" USE SSSORBA TO CHECKPOINT RBA OF CURRENT DATA SET IN CLASS           |
|                                                                                                                                                                                                                                     |      | ..1. ....  |     | SSSOEXTD   | "X'20" EXTENDED PROCESS SYSOUT REQUEST                                      |
|                                                                                                                                                                                                                                     |      | ...1 ....  |     | SSSOPSEE   | "X'10" PROCESS SYSOUT EXTENSION EXISTS                                      |
|                                                                                                                                                                                                                                     |      | .... 1..   |     | SSSODDST   | "X'08" DD NAME HAS BEEN SET IN EXT.                                         |
|                                                                                                                                                                                                                                     |      | .... .111  |     | SSSORSV3   | "X'07" RESERVED FLAGS                                                       |
| 6                                                                                                                                                                                                                                   | (6)  | SIGNED     | 2   | SSSOCOPY   | NUMBER OF COPIES                                                            |
| 8                                                                                                                                                                                                                                   | (8)  | CHARACTER  | 8   | SSSOJOBN   | JOB NAME                                                                    |
| 16                                                                                                                                                                                                                                  | (10) | CHARACTER  | 8   | SSSOJOBI   | JOB ID                                                                      |
| 24                                                                                                                                                                                                                                  | (18) | CHARACTER  | 1   | SSSOCLAS   | NAME OF DESTINATION CLASS SPECIFIED VIA THE NEWCLASS PARAMETER              |
| 25                                                                                                                                                                                                                                  | (19) | CHARACTER  | 2   | SSSOMLRL   | MAXIMUM LOGICAL RECORD LENGTH                                               |
| 27                                                                                                                                                                                                                                  | (1B) | CHARACTER  | 1   | SSSOFLGA   | FLAG BYTE                                                                   |
|                                                                                                                                                                                                                                     |      | 1... ....  |     | SSSOWTRN   | "X'80" WRITER NAME                                                          |
|                                                                                                                                                                                                                                     |      | .1.. ....  |     | SSSOUSER   | "X'40" USERID                                                               |
| 28                                                                                                                                                                                                                                  | (1C) | CHARACTER  | 8   | SSSODEST   | REMOTE DESTINATION SPECIFIED VIA THE DEST PARAMETER                         |
| 36                                                                                                                                                                                                                                  | (24) | CHARACTER  | 8   | SSSOPGMN   | USER WRITER NAME                                                            |
| 44                                                                                                                                                                                                                                  | (2C) | CHARACTER  | 8   | SSSORBA    | RBA OF SYSOUT DATA SET                                                      |
| 52                                                                                                                                                                                                                                  | (34) | CHARACTER  | 44  | SSSODSN    | SYSOUT DATA SET NAME                                                        |
| 96                                                                                                                                                                                                                                  | (60) | CHARACTER  | 4   | SSSOFORM   | FORM NUMBER (FIRST 4 BYTES IF 8 CHARACTER NUMBER)                           |
| Comment                                                                                                                                                                                                                             |      |            |     |            |                                                                             |
| SSSOCLSL WILL CONTAIN 1-8 CLASSES WHEN USED FOR REROUTING OR DELETE FUNCTIONS AND WILL CONTAIN ONLY ONE CLASS WHEN USED FOR PRINTING.                                                                                               |      |            |     |            |                                                                             |
| End of Comment                                                                                                                                                                                                                      |      |            |     |            |                                                                             |
| 100                                                                                                                                                                                                                                 | (64) | CHARACTER  | 8   | SSSOCLSL   | CLASS SELECTION LIST FOR DATA SET SELECTION                                 |

# SSSO Map

| Offsets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |            |     |            |                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-----|------------|---------------------------------------------------------------------------------------|
| Dec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                           |
| 108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | (6C) | ADDRESS    | 4   | SSSOWTRC   | A POINTER TO A COMMUNICATION YM02726 AREA FOR THE USER WRITTEN YM02726 WRITER YM02726 |
| 112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | (70) | CHARACTER  | 8   | SSSODSID   | DATA SET ID TO PLACE SYSOUT ON EXTERNAL DEVICES                                       |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |            |     |            |                                                                                       |
| PROCESS SYSOUT EXTENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |            |     |            |                                                                                       |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |            |     |            |                                                                                       |
| 112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | (70) | X'78'      | 0   | SSSOPSE    | *** PROCESS SYSOUT EXTENSION                                                          |
| 120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | (78) | BITSTRING  | 1   | SSSOFLG3   | BDT CONTROL BYTE                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 1... ....  |     | SSSOSGID   | "X'80" SELECT BY GROUP IDENTIFIER                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | .1. ....   |     | SSSOJH     | "X'40" JOB HEADER                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | .1. ....   |     | SSSODSH    | "X'20" DATA SET HEADER                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | ...1 ....  |     | SSSODS     | "X'10" SYSOUT DATA SET                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | .... 1...  |     | SSSOJT     | "X'08" JOB TRAILER                                                                    |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |            |     |            |                                                                                       |
| EQU X'07' RESERVED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |            |     |            |                                                                                       |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |            |     |            |                                                                                       |
| 121                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | (79) | BITSTRING  | 1   | SSSOFLG4   | USER JOB OPTION FLAG                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 1... ....  |     | SSSOJDEL   | "X'80" DELETE SPECIFIED JOB                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | .1. ....   |     | SSSOJREL   | "X'40" RELEASE SPECIFIED JOB                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | .1. ....   |     | SSSOJHLD   | "X'20" HOLD SPECIFIED JOB                                                             |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |            |     |            |                                                                                       |
| EQU X'1F' RESERVED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |            |     |            |                                                                                       |
| <p>THE FIRST RELEASE OF SUPPORT FOR SECURITY TOKENS PROVIDED THE FIELD SSSOJECT AS THE ADDRESS OF THE SECURITY TOKEN AREA WHICH WAS TO BE PROVIDED BY THE CALLER. THERE WAS NO REQUIREMENT THAT THE CALLER PROVIDE THE LENGTH OR VERSION THAT WAS EXPECTED TO BE RETURNED. IT WAS ASSUMED THAT THE CALLER WOULD PROVIDE AN AREA LARGE ENOUGH FOR THE VERSION ONE FORM OF THE SAF TOKEN. THIS NEW SUPPORT WILL ALLOW THE CALLER TO SPECIFY THE LENGTH AND VERSION OF THE SAF TOKEN. THE TOKEN WILL BE TRANSFORMED FROM THE CURRENT VERSION AND LENGTH TO THE VERSION AND LENGTH REQUESTED BY THE CALLER VIA THE TOKENMAP SERVICE OF THE SAF INTERFACE. IN ORDER TO ALLOW MIGRATION OF PROCESS SYSOUT USERS, A TWO STAGE 'COMMIT' IS PROVIDED. THE PSO USER CAN ASK THAT THE LENGTH AND VERSION IN THE AREA POINTED TO BY SSSOJECT BE USED FOR TOKENMAP BY SETTING SSSOTKNR. IF THE JES SERVICING THE REQUEST HAS HAD THE OTHER HALF OF THIS UPDATE, IT WILL RETURN THE DATA IN THE REQUESTED FORMAT AND SET SSSOTKNG THAT SAYS IT DID SO. IF THE PROCESS SYSOUT USER DOES NOT ASK FOR THIS SERVICE, (BY NOT SETTING SSSOTKNR), THE JES WILL COPY THE TOKEN TO THE ADDRESS SPECIFIED IN SSSOJECT ASSUMING THAT THE LENGTH OF THE AREA IS THE SAME AS THE SAF VERSION ONE TOKEN LENGTH</p> |      |            |     |            |                                                                                       |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |            |     |            |                                                                                       |
| 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | (7A) | BITSTRING  | 1   | SSSOFLG5   | FLAGS                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 1... ....  |     | SSSOTKNR   | "X'80" SAF TOKEN LEN/VER SET                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | .1. ....   |     | SSSOTKNG   | "X'40" SAF TOKEN TOKENMAPED                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | ..1. ....  |     | SSSOGNVA   | "X'20" OUTPUT GROUP NAME PROVIDED                                                     |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |            |     |            |                                                                                       |
| EQU X'1F' RESERVED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |            |     |            |                                                                                       |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |            |     |            |                                                                                       |

| Offsets |      |            |     |            |                                                               |
|---------|------|------------|-----|------------|---------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                   |
| 123     | (7B) | CHARACTER  | 1   | SSSORSV6   | RESERVED                                                      |
| 124     | (7C) | CHARACTER  | 8   | SSSOGRID   | GROUP IDENTIFIER (FOR BDT TO JES3 COMMUNICATION ONLY)         |
| 132     | (84) | SIGNED     | 4   | SSSOLNCT   | DATASET LINE COUNT                                            |
| 136     | (88) | CHARACTER  | 8   | SSSOPRCD   | DATASET PROC NAME                                             |
| 144     | (90) | CHARACTER  | 8   | SSSOSTPD   | DATASET STEP NAME                                             |
| 152     | (98) | CHARACTER  | 8   | SSSODDND   | DATASET DD NAME                                               |
| 160     | (A0) | ADDRESS    | 4   | SSSOSECT   | POINTER TO SECURITY TOKEN (SEE EXPLANATION OF SSSOFLG5 ABOVE) |
| 164     | (A4) | CHARACTER  | 8   | SSSOFOR8   | FORM NUMBER                                                   |

Comment

THE FOLLOWING WORD (SSSOACCT) CONTAINS THE ADDRESS OF A STRING OF ACCOUNTING INFORMATION. THE MEMORY POINTED TO IS MANAGED BY THE JES SERVICING THE PSO REQUEST. THE XWTR SHOULD HAVE AMODE 31 TO ACCESS THE MEMORY. THE ACCOUNTING STRING HAS THE FOLLOWING FORMAT:  
 AL1(NUMBER-OF-PAIRS-THAT-FOLLOW)  
 FOLLOWED BY 0 OR MORE ACCOUNTING PAIRS  
 ACCOUNTING PAIRS ARE OF THE FORM:  
 AL1(LENGTH),C'STRING OF LENGTH "LENGTH"  
 A LENGTH OF 0 INDICATES AN OMITTED FIELD

End of Comment

|     |      |         |   |          |                                        |
|-----|------|---------|---|----------|----------------------------------------|
| 172 | (AC) | ADDRESS | 4 | SSSOACCT | ADDRESS OF ACCOUNTING STRING (OR ZERO) |
|-----|------|---------|---|----------|----------------------------------------|

Comment

THE FOLLOWING FIELD HAS THE 26 CHARACTER JES2 JOE NAME (JOB OUTPUT ELEMENT NAME). THE STRING CAN BE USED AS GIVEN IN JES2 COMMANDS WHICH REQUIRE OUTGRP= SPECIFICATIONS. FLAG SSSOIGNVA (IN SSSOFLG5) IS SET IF THE FIELD IS VALID. THE DATA SET RETURNED WITH A GIVEN OUTPUT GROUP NAME WILL NOT NECESSARILY CONTINUE TO HAVE THE GIVEN OUTPUT GROUP NAME IF THIS REQUEST (OR A LATER REQUEST) ASKS FOR HELD DATA SETS (SSSOUFLG ON) AND DATA SET CHARACTERISTICS ARE CHANGED (VIA A NON-ZERO SSSOUFLG).

End of Comment

|     |      |           |    |          |                                                           |
|-----|------|-----------|----|----------|-----------------------------------------------------------|
| 176 | (B0) | CHARACTER | 26 | SSSOIGNM | JES2 OUTPUT GROUP NAME                                    |
| 202 | (CA) | CHARACTER | 14 |          | RESERVED FOR FUTURE USE                                   |
| 202 | (CA) | X'D8'     | 0  | SSSOSIZE | "*-SSSOIGN" SYSOUT EXTENSION LENGTH                       |
| 202 | (CA) | X'D8'     | 0  | SSSOBLN1 | "SSOBHSIZ+SSSOSIZE" SSOB LENGTH=HEADER + SYSOUT EXTENSION |

## SSSO Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| SSOBLN1  | CA         | D8        | SSSODELC | 2          | 40        |
| SSOBSOUT | 0          | 1         | SSSODEST | 1C         |           |
| SSSOACCT | AC         |           | SSSODS   | 78         | 10        |
| SSSOAUTH | 0          | 20        | SSSODSH  | 78         | 20        |
| SSSOBGN  | 0          | 0         | SSSODSID | 70         |           |
| SSSOCHKP | 5          | 40        | SSSODSN  | 34         |           |
| SSSOCLAS | 18         |           | SSSODST  | 4          | 20        |
| SSSOCLSL | 64         |           | SSSODUPJ | 0          | 14        |
| SSSOCOPY | 6          |           | SSSOEODS | 0          | 4         |
| SSSOCTRL | 5          | 80        | SSSOEXTD | 5          | 20        |
| SSSOCVER | 0          | 4         | SSSOFLGA | 1B         |           |
| SSSODDND | 98         |           | SSSOFLG1 | 4          |           |
| SSSODDST | 5          | 8         | SSSOFLG2 | 5          |           |
| SSSODDVR | 0          | 3         | SSSOFLG3 | 78         |           |

## SSSO Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| SSSOFLG4 | 79         |           |
| SSSOFLG5 | 7A         |           |
| SSSOFORM | 60         |           |
| SSSOFOR8 | A4         |           |
| SSSOGNVA | 7A         | 20        |
| SSSOGRID | 7C         |           |
| SSSOGRNM | 0          | 4         |
| SSSOHLD  | 4          | 80        |
| SSSOHOLD | 2          | 10        |
| SSSOIDST | 0          | 1C        |
| SSSOINVA | 0          | C         |
| SSSOINVJ | 0          | 18        |
| SSSOJDEL | 79         | 80        |
| SSSOJH   | 78         | 40        |
| SSSOJHLD | 79         | 20        |
| SSSOJOB  | 10         |           |
| SSSOJOB  | 8          |           |
| SSSOJREL | 79         | 40        |
| SSSOJT   | 78         | 8         |
| SSSOLEN  | 0          |           |
| SSSOLNCT | 84         |           |
| SSSOMLRL | 19         |           |
| SSSONJOB | 0          | 8         |
| SSSOOGNM | B0         |           |
| SSSOPGMN | 24         |           |
| SSSOPRCD | 88         |           |
| SSSOPSE  | 70         | 78        |
| SSSOPSEE | 5          | 10        |
| SSSORBA  | 2C         |           |
| SSSORLSE | 2          | 8         |
| SSSOROUT | 2          | 20        |
| SSSORSV3 | 5          | 7         |
| SSSORSV6 | 7B         |           |
| SSSORTOK | 0          | 0         |
| SSSOSCLS | 4          | 40        |
| SSSOSDST | 4          | 20        |
| SSSOSECT | A0         |           |
| SSSOSETC | 2          | 80        |
| SSSOSFRM | 4          | 2         |
| SSSOSFR8 | 4          | 1         |
| SSSOSGID | 78         | 80        |
| SSSOSIZE | CA         | D8        |
| SSSOSJBI | 4          | 8         |
| SSSOSJBN | 4          | 10        |
| SSSOSPGM | 4          | 4         |
| SSSOSTPD | 90         |           |
| SSSOTKNG | 7A         | 40        |
| SSSOTKNM | 0          | 24        |
| SSSOTKNR | 7A         | 80        |
| SSSOUFLG | 2          |           |
| SSSOUNAV | 0          | 10        |
| SSSOUSER | 1B         | 40        |
| SSSOVER  | 3          |           |
| SSSOWTRC | 6C         |           |
| SSSOWTRN | 1B         | 80        |



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## SSST Programming Interface information

Programming Interface information

### SSST

The following fields are **NOT** programming interface information:

- STATPERF
- STATSTBG
- STATSTCP
- STATSTHL
- STATSTID
- STATSTNX
- STATSTOR
- STATSTPL
- STATSTRP
- STATSTSP
- STATSTTL
- STATTKHL
- STATTKID
- STATTKNX
- STATTKPR
- STATTKRS
- STATTKR2
- STATTKSN
- STATTKTK
- STATTRKP

End of Programming Interface information

## SSST Heading Information

**Common Name:** SSOB Extension for Extended Status  
**Macro ID:** IAZSSST  
**DSECT Name:** STAT  
**Owning Component:** JES Common (SC141)  
**Eye-Catcher ID:** 'STAT'  
 Offset: 4  
 Length: 4  
**Storage Attributes:** Subpool: any  
 Key: Key of SSI caller  
 Residency: Any  
**Size:** See STATSIZE equate  
**Created by:** Caller of SSI  
**Pointed to by:** SSOBINDV in the IEFSSOBH mapping macro  
**Serialization:** None required  
**Function:** Defines the SSOB extension used to request status information for jobs in the JES queue.

## SSST Map

| Offsets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |            |     |             |                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|-----|-------------|-------------------------------------------------------------|
| Dec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Hex | Type/Value | Len | Name (Dim)  | Description                                                 |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (0) | STRUCTURE  | 0   | STAT        | SSOB extension mapping - STAT                               |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |            |     |             |                                                             |
| Extended Status return codes (SSOBRETN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |            |     |             |                                                             |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |            |     |             |                                                             |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (0) | X'0'       | 0   | STATRTOK    | "0" Everything is ok                                        |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (0) | X'4'       | 0   | STATINVA    | "4" Invalid search arguments                                |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (0) | X'8'       | 0   | STATLERR    | "8" Logic error (See the reason codes defined for STATREAS) |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (0) | X'C'       | 0   | STATINVT    | "12" Unsupported call type (STATTYPE)                       |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (0) | ADDRESS    | 2   | STATLEN     | I.Length of status extension                                |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (2) | CHARACTER  | 4   | STATEYE     | I.Eye catcher                                               |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |            |     |             |                                                             |
| <p>There are two 2 byte versions for this SSOB extension. STATVER is the version provided by the caller. They indicate the level of the control block they are passing to the service. As new input fields are added to the service, the caller provided version indicates what the service is to consider valid.</p> <p>STATVERO is the version information returned from the service. This implies what fields the service actually examined and what data is returned. If the service is at a level higher than the level of the caller, STATVERO may be higher than STATVER. In this case, only the fields valid at the STATVER level are actually examined or set.</p> <p>The 2 bytes of version information is a 1 byte level number (changed only when a new release adds significant function) and a 1 byte modifier (changed only when function is added via service).</p> |     |            |     |             |                                                             |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |            |     |             |                                                             |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (6) | SIGNED     | 2   | STATVER (0) | I.SSOB version                                              |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (6) | ADDRESS    | 1   | STATVERL    | I.SSOB version level                                        |

| Offsets |     |            |     |              |                                                                                                                          |
|---------|-----|------------|-----|--------------|--------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim)   | Description                                                                                                              |
| 7       | (7) | ADDRESS    | 1   | STATVERM     | I.SSOB version modifier                                                                                                  |
| 7       | (7) | BITSTRING  | 0   | STATV010     | "X'0100" Initial version of macro                                                                                        |
| 7       | (7) | BITSTRING  | 0   | STATV020     | "X'0200" WLM support                                                                                                     |
| 7       | (7) | BITSTRING  | 0   | STATV030     | "X'0300" Client print support                                                                                            |
| 7       | (7) | X'3'       | 0   | STATCVRL     | "3" Current version level                                                                                                |
| 7       | (7) | X'0'       | 0   | STATCVRM     | "0" Current version modifier                                                                                             |
| 8       | (8) | SIGNED     | 2   | STATVERO     | O.Subsystem version/modifier                                                                                             |
| 10      | (A) | SIGNED     | 1   | STATREAS     | O.Reason code associated with SSOBRETN value of STATLERR                                                                 |
| 10      | (A) | X'4'       | 0   | STATRDST     | "4" STATDEST is not valid                                                                                                |
| 10      | (A) | X'8'       | 0   | STATRJBL     | "8" STATJBIL is not valid                                                                                                |
| 10      | (A) | X'C'       | 0   | STATRJBH     | "12" STATJBIH is not valid                                                                                               |
| 10      | (A) | X'10'      | 0   | STATRJLM     | "16" STATJBIH is less than STATJBIL                                                                                      |
| 10      | (A) | X'14'      | 0   | STATRCLS     | "20" STATCLSL is not a valid job class                                                                                   |
| 10      | (A) | X'18'      | 0   | STATRVOL     | "24" STATSVOL is set but STATVOL is null or STATVOL specifies an volume serial name that is not valid                    |
| 10      | (A) | X'1C'      | 0   | STATRPHZ     | "28" STATPHAZ is not valid or not supported on this subsystem                                                            |
| 10      | (A) | X'20'      | 0   | STATRQUE     | "32" Unable to access job queues                                                                                         |
| 10      | (A) | X'24'      | 0   | STATREYE     | "36" STATEYE is not set to C'STAT'                                                                                       |
| 10      | (A) | X'28'      | 0   | STATRLEN     | "40" STATLEN is too short                                                                                                |
| 10      | (A) | X'2C'      | 0   | STATRJBN     | "44" STATJOBN is not a valid job name                                                                                    |
| 10      | (A) | X'30'      | 0   | STATROWN     | "48" STATOWNR is not a valid userid                                                                                      |
| 10      | (A) | X'34'      | 0   | STATRSYS     | "52" STATSYS is not a valid system name                                                                                  |
| 10      | (A) | X'38'      | 0   | STATRMEM     | "56" STATMEMB is not a valid member name                                                                                 |
| 10      | (A) | X'3C'      | 0   | STATRCST     | "60" STATSEL2 specifies to select only non-batch jobs and batch job class filtering (STATSCLS) was requested.            |
| 10      | (A) | X'40'      | 0   | STATROJB     | "64" STATOJBI is not valid                                                                                               |
| 10      | (A) | X'44'      | 0   | STATRSEC     | "68" STATSECL is not valid                                                                                               |
| 10      | (A) | X'48'      | 0   | STATRORG     | "72" STATORGN is not valid                                                                                               |
| 10      | (A) | X'4C'      | 0   | STATRXEQ     | "76" STATXEQN is not valid                                                                                               |
| 10      | (A) | X'50'      | 0   | STATRPRI     | "80" STATPRIO is not valid                                                                                               |
| 10      | (A) | X'54'      | 0   | STATRSVC     | "84" STATSRVC is not valid                                                                                               |
| 10      | (A) | X'58'      | 0   | STATRSEN     | "88" STATSENV is not valid                                                                                               |
| 10      | (A) | X'5C'      | 0   | STATRSCT     | "92" STATCTKN is not valid                                                                                               |
| 10      | (A) | X'60'      | 0   | STATRSCR     | "96" STATSCRE is not valid                                                                                               |
| 10      | (A) | X'64'      | 0   | STATRSSD     | "100" STATSDDES is not valid                                                                                             |
| 10      | (A) | X'68'      | 0   | STATRSSC     | "104" STATSCLA is not valid                                                                                              |
| 10      | (A) | X'6C'      | 0   | STATRSXW     | "108" STATSWTR is not valid                                                                                              |
| 10      | (A) | X'70'      | 0   | STATRECJ     | "112" STATSCTK & STATSJBI are mutually exclusive                                                                         |
| 11      | (B) | SIGNED     | 1   | STATREA2     | Secondary reason code. This field can be used to further qualify an error.                                               |
| 12      | (C) | BITSTRING  | 1   | STATTYPE (0) | I.Type of call                                                                                                           |
| 12      | (C) | X'1'       | 0   | STATTERS     | "1" Request type of Terse/Quick data to include only job level data. Data returned requires no I/O on behalf of the JES. |

Comment

EQU 2 Reserved for future use

End of Comment

|    |     |         |   |          |                                                                                                                                                                                                                                                                                                                                       |
|----|-----|---------|---|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12 | (C) | X'3'    | 0 | STATMEM  | "3" Request type of memory management The status support provided by the JES does memory management on behalf of the caller. When the caller is finished with the results of its Verbose or Terse request, a memory management call should be made in order that the memory allocated by the JES on behalf of the caller is released. |
| 12 | (C) | X'4'    | 0 | STATOUTT | "4" Request type of Terse/quick data to include information on SYSOUT. Data returned requires no I/O on behalf of the JES. (only valid for STATV030 and above callers)                                                                                                                                                                |
| 13 | (D) | ADDRESS | 3 |          | Reserved for future use and must be zero                                                                                                                                                                                                                                                                                              |

# SSST Map

| Offsets                                                                                                                                                                                                                                                                                                                                                  |      |            |     |            |                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-----|------------|------------------------------------------------------------------------------------------------|
| Dec                                                                                                                                                                                                                                                                                                                                                      | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                    |
| Comment                                                                                                                                                                                                                                                                                                                                                  |      |            |     |            |                                                                                                |
| <p>STATSTRP is an anchor for use by the subsystems that respond to this request. It is expected that the caller will set this to zero the FIRST time an SSOB extension is used and from that point on it will be managed by the subsystems.</p>                                                                                                          |      |            |     |            |                                                                                                |
| End of Comment                                                                                                                                                                                                                                                                                                                                           |      |            |     |            |                                                                                                |
| 16                                                                                                                                                                                                                                                                                                                                                       | (10) | ADDRESS    | 4   | STATSTRP   | Storage management anchor                                                                      |
| Comment                                                                                                                                                                                                                                                                                                                                                  |      |            |     |            |                                                                                                |
| <p>STATTRKP is a chain of diagnostic response areas built by the subsystems. It contains information about each subsystem that responds to a request (including individual return codes). It is expected that the caller will set this to zero the FIRST time an SSOB extension is used and from that point on it will be managed by the subsystems.</p> |      |            |     |            |                                                                                                |
| End of Comment                                                                                                                                                                                                                                                                                                                                           |      |            |     |            |                                                                                                |
| 20                                                                                                                                                                                                                                                                                                                                                       | (14) | ADDRESS    | 4   | STATTRKP   | Diagnostic response area anchor                                                                |
| Comment                                                                                                                                                                                                                                                                                                                                                  |      |            |     |            |                                                                                                |
| Begin input-only fields                                                                                                                                                                                                                                                                                                                                  |      |            |     |            |                                                                                                |
| End of Comment                                                                                                                                                                                                                                                                                                                                           |      |            |     |            |                                                                                                |
| 24                                                                                                                                                                                                                                                                                                                                                       | (18) | BITSTRING  | 1   | STATSEL1   | IS.Job selection flags                                                                         |
|                                                                                                                                                                                                                                                                                                                                                          |      | 1... ....  |     | STATSCLS   | "B'10000000" Use STATCLSL as a filter                                                          |
|                                                                                                                                                                                                                                                                                                                                                          |      | .1... .... |     | STATSDST   | "B'01000000" Use STATDEST as a filter                                                          |
|                                                                                                                                                                                                                                                                                                                                                          |      | ..1. ....  |     | STATSJBN   | "B'00100000" Use STATJOBN as a filter                                                          |
|                                                                                                                                                                                                                                                                                                                                                          |      | ...1 ....  |     | STATSJBI   | "B'00010000" Use STATJBIL and STATJBIH as filters. Mutually exclusive with STATSCTK            |
|                                                                                                                                                                                                                                                                                                                                                          |      | .... 1...  |     | STATSOJI   | "B'00001000" Use STATOJBI as a filter                                                          |
|                                                                                                                                                                                                                                                                                                                                                          |      | .... .1..  |     | STATSOWN   | "B'00000100" Use STATOWNR as a filter                                                          |
|                                                                                                                                                                                                                                                                                                                                                          |      | .... ..1.  |     | STATSSEC   | "B'00000010" Use STATSECL as a filter                                                          |
| 25                                                                                                                                                                                                                                                                                                                                                       | (19) | BITSTRING  | 1   | STATSEL2   | IS.More Job selection flags                                                                    |
|                                                                                                                                                                                                                                                                                                                                                          |      | 1... ....  |     | STATSSTC   | "B'10000000" Select Started Tasks (STCs) (see note in STATSTYP)                                |
|                                                                                                                                                                                                                                                                                                                                                          |      | .1... .... |     | STATSTSU   | "B'01000000" Select Time Sharing Users (TSUs) (see note in STATSTYP)                           |
|                                                                                                                                                                                                                                                                                                                                                          |      | ..1. ....  |     | STATSJOB   | "B'00100000" Select batch jobs (JOBS) (see note in STATSTYP)                                   |
|                                                                                                                                                                                                                                                                                                                                                          |      | ...1 ....  |     | STATSAPC   | "B'00010000" Select APPC Initiator (see note in STATSTYP)                                      |
| Comment                                                                                                                                                                                                                                                                                                                                                  |      |            |     |            |                                                                                                |
| <p>B'00001111' Reserved for future JOB types and must be zero</p>                                                                                                                                                                                                                                                                                        |      |            |     |            |                                                                                                |
| End of Comment                                                                                                                                                                                                                                                                                                                                           |      |            |     |            |                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                          |      | 1111 1111  |     | STATSTYP   | "B'11111111" If none of these bits is on, then selection will be as if ALL of the bits are on. |
| 26                                                                                                                                                                                                                                                                                                                                                       | (1A) | BITSTRING  | 1   | STATSEL3   | IS.More job selection flags                                                                    |
|                                                                                                                                                                                                                                                                                                                                                          |      | 1... ....  |     | STATSPRI   | "B'10000000" Use STATPRIO as a filter                                                          |
|                                                                                                                                                                                                                                                                                                                                                          |      | .1... .... |     | STATSVOL   | "B'01000000" Select Jobs based on the volume serial list in STATVOL                            |
|                                                                                                                                                                                                                                                                                                                                                          |      | ..1. ....  |     | STATSPHZ   | "B'00100000" Use STATPHAZ as a filter                                                          |

| Offsets                                                                                                                                                                                                                                                                                        |      |            |     |            |                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-----|------------|-------------------------------------------------------------------------------------------------------------|
| Dec                                                                                                                                                                                                                                                                                            | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                 |
| Comment                                                                                                                                                                                                                                                                                        |      |            |     |            |                                                                                                             |
| Note: If the following two bits are both on or both off then the hold state of the job will not be considered.                                                                                                                                                                                 |      |            |     |            |                                                                                                             |
| End of Comment                                                                                                                                                                                                                                                                                 |      |            |     |            |                                                                                                             |
|                                                                                                                                                                                                                                                                                                |      | ...1 ....  |     | STATSHLD   | "B'00010000" Select jobs which are held                                                                     |
|                                                                                                                                                                                                                                                                                                |      | .... 1...  |     | STATSNHL   | "B'00001000" Select jobs which are not held                                                                 |
|                                                                                                                                                                                                                                                                                                |      | .... .1..  |     | STATSSYS   | "B'00000100" Select jobs which are active on STATSSYS                                                       |
|                                                                                                                                                                                                                                                                                                |      | .... .1.   |     | STATSMEM   | "B'00000010" Select jobs which are active on STATMEMB                                                       |
|                                                                                                                                                                                                                                                                                                |      | .... ...1  |     | STATSPOS   | "B'00000001" Return queue position information                                                              |
| 27                                                                                                                                                                                                                                                                                             | (1B) | BITSTRING  | 1   | STATSEL4   | IS.More job selection flags                                                                                 |
|                                                                                                                                                                                                                                                                                                |      | 1... ....  |     | STATSORG   | "B'10000000" Use STATORGN as a filter                                                                       |
|                                                                                                                                                                                                                                                                                                |      | .1.. ....  |     | STATSXEQ   | "B'01000000" Use STATXEQN as a filter                                                                       |
|                                                                                                                                                                                                                                                                                                |      | .1. ....   |     | STATSSRV   | "B'00100000" Use STATSRVC as a filter                                                                       |
|                                                                                                                                                                                                                                                                                                |      | ...1 ....  |     | STATSSEN   | "B'00010000" Use STATSENV as a filter                                                                       |
| Comment                                                                                                                                                                                                                                                                                        |      |            |     |            |                                                                                                             |
| B'00001111' Reserved for future use                                                                                                                                                                                                                                                            |      |            |     |            |                                                                                                             |
| End of Comment                                                                                                                                                                                                                                                                                 |      |            |     |            |                                                                                                             |
| 28                                                                                                                                                                                                                                                                                             | (1C) | BITSTRING  | 1   | STATSSL1   | IS.SYSOUT selection flag                                                                                    |
|                                                                                                                                                                                                                                                                                                |      | 1... ....  |     | STATSCTK   | "B'10000000" Use STATCTKN as a filter. Mutually exclusive with STATSJBI                                     |
|                                                                                                                                                                                                                                                                                                |      | .1.. ....  |     | STATSSOW   | "B'01000000" Use STATSCRE as a filter                                                                       |
|                                                                                                                                                                                                                                                                                                |      | .1. ....   |     | STATSSDS   | "B'00100000" Use STATSDS as a filter                                                                        |
|                                                                                                                                                                                                                                                                                                |      | ...1 ....  |     | STATSSCL   | "B'00010000" Use STATSCLA as a filter                                                                       |
|                                                                                                                                                                                                                                                                                                |      | .... 1...  |     | STATSSWR   | "B'00001000" Use STATSWTR as a filter                                                                       |
| Comment                                                                                                                                                                                                                                                                                        |      |            |     |            |                                                                                                             |
| STATSSHL and STATSSNH refer to the HOLD state of the SYSOUT.<br>Hold in this case refers to the hold set by HOLD=YES on the DD card (or OUTDISP=HOLD on the OUTPUT card).<br>Note: If the following two bits are both on or both off then the hold state of the SYSOUT will not be considered. |      |            |     |            |                                                                                                             |
| End of Comment                                                                                                                                                                                                                                                                                 |      |            |     |            |                                                                                                             |
|                                                                                                                                                                                                                                                                                                |      | .... .1..  |     | STATSSHL   | "B'00000100" Select held SYSOUT                                                                             |
|                                                                                                                                                                                                                                                                                                |      | .... .1.   |     | STATSSNH   | "B'00000010" Select non-held SYSOUT                                                                         |
| Comment                                                                                                                                                                                                                                                                                        |      |            |     |            |                                                                                                             |
| B'00000001' Reserved for future use                                                                                                                                                                                                                                                            |      |            |     |            |                                                                                                             |
| End of Comment                                                                                                                                                                                                                                                                                 |      |            |     |            |                                                                                                             |
| 29                                                                                                                                                                                                                                                                                             | (1D) | BITSTRING  | 1   |            | Reserved for future use and must be zero                                                                    |
| 30                                                                                                                                                                                                                                                                                             | (1E) | CHARACTER  | 8   | STATJOBN   | IS*.Jobname used for selection (if STATSJBN on).                                                            |
| 38                                                                                                                                                                                                                                                                                             | (26) | CHARACTER  | 8   | STATJBIL   | IS.Low jobid used for selection (if STATSJBI on).                                                           |
| 46                                                                                                                                                                                                                                                                                             | (2E) | CHARACTER  | 8   | STATJBIH   | IS.High jobid used for selection (if STATSJBI on). This value must be null or at least as high as STATJBIL. |
| 54                                                                                                                                                                                                                                                                                             | (36) | CHARACTER  | 8   | STATOJBI   | IS.Original job id for selection (if STATSOJI on).                                                          |
| 62                                                                                                                                                                                                                                                                                             | (3E) | CHARACTER  | 8   | STATOWNR   | IS*.Owning userid used for selection (if STATSOJN on)                                                       |
| 70                                                                                                                                                                                                                                                                                             | (46) | CHARACTER  | 8   | STATSECL   | IS*.SECLABEL used for selection (if STATSSSEC on)                                                           |
| 78                                                                                                                                                                                                                                                                                             | (4E) | CHARACTER  | 18  | STATDEST   | IS*.Default print or punch destination value used for selection (if STATSDST on).                           |
| 96                                                                                                                                                                                                                                                                                             | (60) | CHARACTER  | 8   | STATORGN   | IS.Origin node name for selection (if STATSORG on)                                                          |
| 104                                                                                                                                                                                                                                                                                            | (68) | CHARACTER  | 8   | STATXEQN   | IS.Execution node name for selection (if STATSXEQ on)                                                       |
| 112                                                                                                                                                                                                                                                                                            | (70) | CHARACTER  | 8   | STATCLSL   | IS.Job class used for selection. The job class is 1 to 8 characters in length                               |

## SSST Map

| Offsets |      |            |     |             |                                                                                                                                                                     |
|---------|------|------------|-----|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)  | Description                                                                                                                                                         |
| 120     | (78) | CHARACTER  | 6   | STATVOL (4) | IS.List of SPOOL volume serial numbers. When STATSVOL is on, jobs are selected if and only if the job has output on at least one of the volumes listed. (JES2 only) |
| 144     | (90) | CHARACTER  | 8   | STATSYS     | IS*.MVS system name where job is active. Used for selection if STASSYS is on                                                                                        |
| 152     | (98) | CHARACTER  | 8   | STATMEMB    | IS*.JES member name where job is active. Used for selection if STASMEM is on                                                                                        |
| 160     | (A0) | BITSTRING  | 1   | STATPRIO    | IS.Job Priority used for selection (if STATSPRI is on)                                                                                                              |
| 161     | (A1) | ADDRESS    | 1   | STATPHAZ    | IS.Job phase. When STATSPHZ is on jobs are selected if and only if they are in this phase.                                                                          |

Comment

Possible values for STATPHAZ

The following are job phases that exist when the job is running under JES3.

End of Comment

|     |      |      |   |             |                                                      |
|-----|------|------|---|-------------|------------------------------------------------------|
| 161 | (A1) | X'1' | 0 | STAT_NOSUB  | "1" No subchain exists                               |
| 161 | (A1) | X'2' | 0 | STAT_FSSCI  | "2" Active in CI in an FSS address space             |
| 161 | (A1) | X'3' | 0 | STAT_PSCBAT | "3" Awaiting postscan (batch)                        |
| 161 | (A1) | X'4' | 0 | STAT_PSCDSL | "4" Awaiting postscan (demsel)                       |
| 161 | (A1) | X'5' | 0 | STAT_FETCH  | "5" Awaiting volume fetch                            |
| 161 | (A1) | X'6' | 0 | STAT_VOLWT  | "6" Awaiting start setup                             |
| 161 | (A1) | X'7' | 0 | STAT_SYSEL  | "7" Awaiting/active in MDS system select processing  |
| 161 | (A1) | X'8' | 0 | STAT_ALLOC  | "8" Awaiting resource allocation                     |
| 161 | (A1) | X'9' | 0 | STAT_VOLUAV | "9" Awaiting unavailable VOL(s)                      |
| 161 | (A1) | X'A' | 0 | STAT_VERIFY | "10" Awaiting volume mounts                          |
| 161 | (A1) | X'B' | 0 | STAT_SYSVER | "11" Awaiting/active in MDS system verify processing |
| 161 | (A1) | X'C' | 0 | STAT_ERROR  | "12" Error during MDS processing                     |
| 161 | (A1) | X'D' | 0 | STAT_SELECT | "13" Awaiting selection on main                      |
| 161 | (A1) | X'E' | 0 | STAT_ONMAIN | "14" Scheduled on main                               |

Comment

EQU 15 Reserved (obsolete - ASP)  
EQU 16 Reserved (obsolete - ASP)

End of Comment

|     |      |       |   |             |                                                     |
|-----|------|-------|---|-------------|-----------------------------------------------------|
| 161 | (A1) | X'11' | 0 | STAT_BRKDWN | "17" Awaiting breakdown                             |
| 161 | (A1) | X'12' | 0 | STAT_RESTRT | "18" Awaiting MDS restart proc.                     |
| 161 | (A1) | X'13' | 0 | STAT_DONE   | "19" Main and MDS proc. complete                    |
| 161 | (A1) | X'14' | 0 | STAT_OUTPT  | "20" Awaiting output service                        |
| 161 | (A1) | X'15' | 0 | STAT_OUTQUE | "21" Awaiting output service WTR                    |
| 161 | (A1) | X'16' | 0 | STAT_OSWAIT | "22" Awaiting rsvd services                         |
| 161 | (A1) | X'17' | 0 | STAT_CMPLT  | "23" Output service complete                        |
| 161 | (A1) | X'18' | 0 | STAT_DEMSEL | "24" Awaiting selection on main (demand select job) |
| 161 | (A1) | X'19' | 0 | STAT_EFWAIT | "25" Ending function rq waiting or i/o completion   |
| 161 | (A1) | X'1A' | 0 | STAT_EFBAD  | "26" Ending function rq not Processed               |
| 161 | (A1) | X'1B' | 0 | STAT_MAXNDX | "27" Maximum rq index value                         |

Comment

The following are job phases that exist when the job is running under JES2. Phases that are common between JES2 and JES3 are listed above and commented below.

End of Comment

|     |      |       |   |            |                                  |
|-----|------|-------|---|------------|----------------------------------|
| 161 | (A1) | X'80' | 0 | STAT_INPUT | "128" Active in input processing |
|-----|------|-------|---|------------|----------------------------------|

Offsets

| Dec | Hex  | Type/Value | Len | Name (Dim)  | Description                |
|-----|------|------------|-----|-------------|----------------------------|
| 161 | (A1) | X'81'      | 0   | STAT_WTCONV | "129" Awaiting conversion  |
| 161 | (A1) | X'82'      | 0   | STAT_CONV   | "130" Active in conversion |

Comment

VOLWT EQU 6 Awaiting SETUP

End of Comment

|     |      |       |   |            |                       |
|-----|------|-------|---|------------|-----------------------|
| 161 | (A1) | X'83' | 0 | STAT_SETUP | "131" Active in SETUP |
|-----|------|-------|---|------------|-----------------------|

Comment

SELECT EQU 13 Awaiting execution  
ONMAIN EQU 14 Actively executing

End of Comment

|     |      |       |   |             |                       |
|-----|------|-------|---|-------------|-----------------------|
| 161 | (A1) | X'84' | 0 | STAT_SPIN   | "132" Active in spin  |
| 161 | (A1) | X'85' | 0 | STAT_WTBKDN | "133" Awaiting output |

Comment

BRKDWN EQU 17 Active in output  
OUTPT EQU 20 Awaiting hardcopy

End of Comment

|     |      |       |   |             |                                     |
|-----|------|-------|---|-------------|-------------------------------------|
| 161 | (A1) | X'86' | 0 | STAT_WTPURG | "134" Awaiting purge                |
| 161 | (A1) | X'87' | 0 | STAT_PURG   | "135" Active in purge               |
| 161 | (A1) | X'88' | 0 | STAT_RECV   | "136" Active on NJE sysout receiver |
| 161 | (A1) | X'89' | 0 | STAT_WTXMIT | "137" Awaiting NJE transmission     |
| 161 | (A1) | X'8A' | 0 | STAT_XMIT   | "138" Active on NJE Job transmitter |

Comment

-----  
The following are job phases are used for selection (STATPHAZ) and are composites of the other phases. The output field STTRPHAZ will never indicate a job is in this phase.  
-----

End of Comment

|     |      |       |   |             |                                       |
|-----|------|-------|---|-------------|---------------------------------------|
| 161 | (A1) | X'FD' | 0 | STAT_EXEC   | "253" Job has not completed execution |
| 161 | (A1) | X'FE' | 0 | STAT_POSTEX | "254" Job has completed execution     |

Comment

The following fields are only honored if the input version is at least version 2 and the JES processing the request is at least at a version 2 level of support.

End of Comment

|     |      |           |    |          |                                                              |
|-----|------|-----------|----|----------|--------------------------------------------------------------|
| 162 | (A2) | CHARACTER | 8  | STATSRVC | IS.WLM service class for selection (if STATSSRV is on)       |
| 170 | (AA) | CHARACTER | 16 | STATSENV | IS*.WLM Scheduling environ for selection (if STATSENV is on) |
| 186 | (BA) | BITSTRING | 2  |          | Reserved for future use and must be zero                     |

## SSST Map

### Offsets

| Dec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Hex   | Type/Value | Len | Name (Dim) | Description                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|-----|------------|---------------------------------------------------------------|
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |            |     |            |                                                               |
| <p>Instead of passing data back to the processing routine in storage obtained by the subsystem, data can be passed to a processing routine one block at a time. The processing routine is given control in AMODE 31 with a PSW key and supervisor state of the caller of the SSI. The register convention are as follows:</p> <p>R0 n/a<br/>           R1 STATPARM parm list address<br/>           R2-R12 n/a<br/>           R13 Available save area<br/>           R14 return address<br/>           R15 entry address</p> <p>Note: Even if you use a processing routine, you still must make a memory management call.</p> |       |            |     |            |                                                               |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |            |     |            |                                                               |
| 188                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (BC)  | ADDRESS    | 4   | STATRTN    | I.Data processing routine                                     |
| 192                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (C0)  | SIGNED     | 4   | STATRPRM   | I.Routine parameter area                                      |
| 196                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (C4)  | SIGNED     | 4   | (4)        | Reserved for future use and must be zero                      |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |            |     |            |                                                               |
| Begin output-only fields                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |            |     |            |                                                               |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |            |     |            |                                                               |
| 212                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (D4)  | ADDRESS    | 4   | STATJOBFB  | O.Address of first Job Queue Element                          |
| 216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (D8)  | SIGNED     | 4   | STATNRJQ   | O.Number of jobs found                                        |
| 220                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (DC)  | SIGNED     | 4   |            | Reserved for future use and must be zero                      |
| 224                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (E0)  | DBL WORD   | 8   | STATPERF   | O.Performance index for last performed request                |
| 232                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (E8)  | SIGNED     | 4   | (12)       | Reserved for future use and must be zero.                     |
| 280                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (118) | DBL WORD   | 8   | (0)        | Ensure size Dword aligned                                     |
| 280                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (118) | X'118'     | 0   | STATSIZE1  | **"-STAT" Original size of SSOB extension                     |
| 280                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (118) | X'118'     | 0   | STATSIZE2  | **"-STAT" Version 2 size of SSOB extension                    |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |            |     |            |                                                               |
| Begin SYSOUT input only fields                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |            |     |            |                                                               |
| The following fields are only honored if the input version and the JES processing the request are at a STATV030 or higher level of support.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |            |     |            |                                                               |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |            |     |            |                                                               |
| 280                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (118) | ADDRESS    | 4   | STATCTKN   | IS. Address of client token for selection (if STATSCTK on).   |
| 284                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (11C) | CHARACTER  | 8   | STATSCRE   | IS*.SYSOUT owner (creator) for selection (if STATSSOW is on). |
| 292                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (124) | CHARACTER  | 18  | STATSDES   | IS*.SYSOUT destination for selection (if STATSSDS is on).     |
| 310                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (136) | CHARACTER  | 8   | STATSCLA   | IS. SYSOUT class for selection (if STATSSCL is on).           |
| 318                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (13E) | CHARACTER  | 8   | STATSWTR   | IS*.SYSOUT writer name for selection (if STATSSWR is on).     |
| 326                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (146) | BITSTRING  | 2   |            | Reserved for future use and must be zero                      |
| 328                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (148) | SIGNED     | 4   | (32)       | Reserved for future use and must be zero                      |
| 328                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (148) | X'1C8'     | 0   | STATSIZE3  | **"-STAT" Version 3 size of SSOB extension                    |
| 328                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (148) | X'1C8'     | 0   | STATSIZE   | **"-STAT" Length of enhanced status SSOB ext                  |
| 328                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (148) | X'1C8'     | 0   | SSSTLEN8   | "SSOBHSIZ+STATSIZE" Total SSOB Length w/ST Ext                |

### Offsets

| Dec | Hex | Type/Value | Len | Name (Dim) | Description                |
|-----|-----|------------|-----|------------|----------------------------|
| 0   | (0) | STRUCTURE  | 0   | STATSTOR   | , Storage management DSECT |
| 0   | (0) | CHARACTER  | 8   | STATSTID   | Full eyecatcher            |
| 8   | (8) | ADDRESS    | 2   | STATSTHL   | Length of header area      |



## Offsets

| Dec | Hex  | Type/Value | Len | Name (Dim)   | Description                                     |
|-----|------|------------|-----|--------------|-------------------------------------------------|
| 10  | (A)  | ADDRESS    | 2   |              | Reserved for future use                         |
| 12  | (C)  | BITSTRING  | 1   | STATSTSP     | Subpool of area                                 |
| 12  | (C)  | X'E6'      | 0   | STATSTPL     | "230" Recommended subpool to use                |
| 13  | (D)  | ADDRESS    | 3   | STATSTTL     | Total length of area (this includes the header) |
| 16  | (10) | ADDRESS    | 4   | STATSTNX     | Pointer to next area                            |
| 20  | (14) | ADDRESS    | 4   | STATSTCP     | Pointer to 1st available byte in this area      |
| 24  | (18) | ADDRESS    | 4   | STATSTBG (0) | Start of data area                              |

## Offsets

| Dec | Hex  | Type/Value | Len | Name (Dim) | Description                          |
|-----|------|------------|-----|------------|--------------------------------------|
| 0   | (0)  | STRUCTURE  | 0   | STATTRAK   | , Diagnostic data DSECT              |
| 0   | (0)  | CHARACTER  | 8   | STATTKID   | Full eyecatcher                      |
| 8   | (8)  | ADDRESS    | 2   | STATTKHL   | Length of header area                |
| 10  | (A)  | BITSTRING  | 2   | STATTKVR   | Copy of STATVERO                     |
| 12  | (C)  | ADDRESS    | 4   | STATTKNX   | Address of next area                 |
| 16  | (10) | CHARACTER  | 4   | STATTKSN   | Subsystem name                       |
| 20  | (14) | SIGNED     | 1   | STATTKRS   | Copy of STATREAS                     |
|     |      | 1111 1111  |     | STATTKSK   | "X'FF" Reason code if member skipped |
| 21  | (15) | SIGNED     | 1   | STATTKR2   | Copy of STATREA2                     |
| 22  | (16) | BITSTRING  | 2   |            | Reserved for future use              |
| 24  | (18) | BITSTRING  | 8   | STATTKTK   | Token for use by subsystem           |
| 32  | (20) | DBL WORD   | 8   | STATTKPR   | Copy of STATPERF                     |
| 32  | (20) | X'28'      | 0   | STATTKND   | *** End of area                      |

## Offsets

| Dec | Hex | Type/Value | Len | Name (Dim) | Description                  |
|-----|-----|------------|-----|------------|------------------------------|
| 0   | (0) | STRUCTURE  | 0   | STATPARM   | , Routine parm list          |
| 0   | (0) | SIGNED     | 2   | STATPSIZ   | Size of parameter list       |
| 2   | (2) | BITSTRING  | 2   | STATPVER   | Copy of STATVERO             |
| 4   | (4) | SIGNED     | 4   | STATPPRM   | Parm passed in STATRPRM      |
| 8   | (8) | SIGNED     | 4   | STATPWRK   | Work area                    |
| 12  | (C) | ADDRESS    | 4   | STATPELM   | Addr of Job Queue Element    |
| 12  | (C) | X'10'      | 0   | STATPLEN   | ** -STATPARM" Length of area |

## Offsets

| Dec | Hex  | Type/Value | Len | Name (Dim) | Description                                            |
|-----|------|------------|-----|------------|--------------------------------------------------------|
| 0   | (0)  | STRUCTURE  | 0   | STATJQ     | , Job data section prolog                              |
| 0   | (0)  | CHARACTER  | 4   | STJQEYE    | Eye catcher                                            |
| 4   | (4)  | ADDRESS    | 2   | STJQOHDR   | Offset to first section                                |
| 6   | (6)  | BITSTRING  | 2   |            | Reserved for future use                                |
| 8   | (8)  | ADDRESS    | 4   | STJQNEXT   | Address of next Job Queue Element                      |
| 12  | (C)  | ADDRESS    | 4   | STJQSE     | Address of first SYSOUT element                        |
| 16  | (10) | CHARACTER  | 4   | STJQOSS    | Name of Subsystem which created this Job Queue Element |
| 20  | (14) | ADDRESS    | 4   |            | Reserved for future use                                |
| 20  | (14) | X'18'      | 0   | STJQSIZE   | ** -STATJQ" Size of prologue                           |

# SSST Map

| Offsets                                           |     |            |     |            |                                         |
|---------------------------------------------------|-----|------------|-----|------------|-----------------------------------------|
| Dec                                               | Hex | Type/Value | Len | Name (Dim) | Description                             |
| Comment                                           |     |            |     |            |                                         |
| Section type flags                                |     |            |     |            |                                         |
| General conventions for section number assignment |     |            |     |            |                                         |
| Bits Value meaning                                |     |            |     |            |                                         |
| -----                                             |     |            |     |            |                                         |
| 0-1 00 job level section                          |     |            |     |            |                                         |
| 01 SYSOUT level section                           |     |            |     |            |                                         |
| 2 0 quick/terse data section                      |     |            |     |            |                                         |
| 1 reserved                                        |     |            |     |            |                                         |
| 3-7 00000 overall header section                  |     |            |     |            |                                         |
| xxxxx section number                              |     |            |     |            |                                         |
| End of Comment                                    |     |            |     |            |                                         |
|                                                   |     | .... ....  |     | STHD1HDR   | "B'00000000" First Header Section type  |
|                                                   |     | .... ...1  |     | STTRTERS   | "B'00000001" Job level terse section    |
|                                                   |     | .... ..1.  |     | STJ2TERS   | "B'00000010" JES2 Terse section type    |
|                                                   |     | .... ..11  |     | STAFFIN    | "B'00000011" Affinity section type      |
|                                                   |     | .... .1..  |     | STSCHEM    | "B'00000100" Scheduling section         |
|                                                   |     | .1.. ....  |     | STSH1HDR   | "B'01000000" First SYSOUT section type  |
|                                                   |     | .1.. ...1  |     | STSTTERS   | "B'01000001" SYSOUT level terse section |
|                                                   |     | .1.. ..1.  |     | STS2TERS   | "B'01000010" JES2 SYSOUT section        |
|                                                   |     | .1.. ..11  |     | STS3TERS   | "B'01000011" JES3 SYSOUT section        |

| Offsets |     |            |     |            |                                                  |
|---------|-----|------------|-----|------------|--------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                      |
| 0       | (0) | STRUCTURE  | 0   | STATJQHD   | , Job data section header                        |
| 0       | (0) | ADDRESS    | 2   | STHDLEN    | Length of entire job header (Max value is 65535) |
| 2       | (2) | ADDRESS    | 1   | STHDTYPE   | Type of this header                              |
| 3       | (3) | ADDRESS    | 1   | STHDMOD    | Modifier                                         |
| 3       | (3) | X'0'       | 0   | STHD1MOD   | "0" First Header Section modifier                |
| 3       | (3) | X'4'       | 0   | STHDSIZE   | "*-STATJQHD" Size of First Header Section        |

| Offsets |      |            |     |            |                                                                |
|---------|------|------------|-----|------------|----------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                    |
| 0       | (0)  | STRUCTURE  | 0   | STATJQTR   | , Job data terse section                                       |
| 0       | (0)  | ADDRESS    | 2   | STTRLEN    | Length of terse section                                        |
| 2       | (2)  | ADDRESS    | 1   | STTRTYPE   | Type of this header                                            |
| 3       | (3)  | ADDRESS    | 1   | STTRMOD    | Modifier                                                       |
| 3       | (3)  | X'0'       | 0   | STTRTMOD   | "0" Terse section modifier                                     |
| 4       | (4)  | CHARACTER  | 8   | STTRNAME   | Job Name                                                       |
| 12      | (C)  | CHARACTER  | 8   | STTRJID    | Job Identifier                                                 |
| 20      | (14) | CHARACTER  | 8   | STTROJID   | Original Job Identifier                                        |
| 28      | (1C) | CHARACTER  | 8   | STTRCLAS   | Job Class                                                      |
| 36      | (24) | CHARACTER  | 8   | STTRONOD   | Origin Node (node of submittal)                                |
| 44      | (2C) | CHARACTER  | 8   | STTRXNOD   | Execution Node                                                 |
| 52      | (34) | CHARACTER  | 8   | STTRPRND   | Default Print Node                                             |
| 60      | (3C) | CHARACTER  | 8   | STTRPRRE   | Default Print Remote Name                                      |
| 68      | (44) | CHARACTER  | 8   | STTRPUND   | Default Punch Node                                             |
| 76      | (4C) | CHARACTER  | 8   | STTRPURE   | Default Punch Remote Name                                      |
| 84      | (54) | CHARACTER  | 8   | STTROUID   | Owner userid                                                   |
| 92      | (5C) | CHARACTER  | 8   | STTRSECL   | SECLABEL for job                                               |
| 100     | (64) | CHARACTER  | 8   | STTRSYS    | MVS system on which the job is active (blanks if not active)   |
| 108     | (6C) | CHARACTER  | 8   | STTRMEM    | JES2 member on which the job is active (blanks if not active)  |
| 116     | (74) | CHARACTER  | 18  | STTRDEVN   | Name of device job is active on (if job is active on a device) |
| 134     | (86) | ADDRESS    | 1   | STTRPHAZ   | Phase job is in (see STAT_ equates for an enumeration)         |
| 135     | (87) | ADDRESS    | 1   | STTRHOLD   | Job hold indicator                                             |
| 135     | (87) | X'1'       | 0   | STTRJHNL   | "1" Job is not held                                            |
| 135     | (87) | X'2'       | 0   | STTRJHLD   | "2" Job is held                                                |
| 135     | (87) | X'3'       | 0   | STTRJDUP   | "3" Job held for duplicate job name                            |

| Offsets |      |            |     |            |                                          |
|---------|------|------------|-----|------------|------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                              |
| 136     | (88) | ADDRESS    | 1   | STTRJTYP   | Job type                                 |
| 136     | (88) | X'1'       | 0   | STTRSTC    | "1" Started Task (STC)                   |
| 136     | (88) | X'2'       | 0   | STTRTSU    | "2" Time Sharing User (TSU)              |
| 136     | (88) | X'3'       | 0   | STTRJOB    | "3" Batch job (JOB)                      |
| 136     | (88) | X'4'       | 0   | STTRAPPC   | "4" APPC Initiator                       |
| 137     | (89) | BITSTRING  | 1   | STTRPRIO   | Job priority                             |
| 138     | (8A) | BITSTRING  | 1   | STTRARMS   | Jobs ARM status                          |
|         |      | 1... ..    |     | STTRARMR   | "B'10000000" Job is ARM registered       |
|         |      | .1.. ..    |     | STTRARMW   | "B'01000000" Job is awaiting ARM restart |
| 139     | (8B) | BITSTRING  | 1   | STTRMISC   | Miscellaneous indicators                 |
|         |      | 1... ..    |     | STTRMSPN   | "B'10000000" JESLOG is spinable          |

Comment

-----  
 The max return code consists of a 1 byte indicator of how the job completed followed by a 3 byte code. The code is available only for conditions followed by a '+' sign. If the job ABENDED or failed in end of memory, either the first 12 bits of STTRMXCC are set to the System ABEND code or the last 12 bits are set to the user ABEND code. If the job ended by completion code, STTRMXCC is completion code of the last step executed.  
 -----

End of Comment

|     |      |           |   |              |                               |
|-----|------|-----------|---|--------------|-------------------------------|
| 140 | (8C) | SIGNED    | 4 | STTRMXRC (0) | Max return code               |
| 140 | (8C) | BITSTRING | 1 | STTRXIND     | Job completion indicator      |
|     |      | 1... ..   |   | STTRXAB      | "X'80" ABEND code exists      |
|     |      | .1.. ..   |   | STTRXCDE     | "X'40" Completion code exists |

Comment

X'3F' Specific completion type

End of Comment

|     |      |           |   |          |                                          |
|-----|------|-----------|---|----------|------------------------------------------|
| 140 | (8C) | X'0'      | 0 | STTRXUNK | "0" No completion info                   |
| 140 | (8C) | X'1'      | 0 | STTRXNRM | "1" Job ended normally +                 |
| 140 | (8C) | X'2'      | 0 | STTRXCC  | "2" Job ended by CC +                    |
| 140 | (8C) | X'3'      | 0 | STTRXJCL | "3" Job had a JCL error                  |
| 140 | (8C) | X'4'      | 0 | STTRXCAN | "4" Job was canceled                     |
| 140 | (8C) | X'5'      | 0 | STTRXABN | "5" Job ABENDED +                        |
| 140 | (8C) | X'6'      | 0 | STTRXCAB | "6" Converter ABENDED                    |
| 140 | (8C) | X'7'      | 0 | STTRXSEC | "7" Security error                       |
| 140 | (8C) | X'8'      | 0 | STTRXEOM | "8" Job failed in EOM +                  |
| 141 | (8D) | BITSTRING | 3 | STTRMXCC | Completion code (set for '+' conditions) |
| 141 | (8D) | X'90'     | 0 | STTRSIZE | "*-STATJQTR" Size of Terse Information   |

Offsets

| Dec | Hex | Type/Value | Len | Name (Dim) | Description                                                                        |
|-----|-----|------------|-----|------------|------------------------------------------------------------------------------------|
| 0   | (0) | STRUCTURE  | 0   | STATJ2TR   | , JES2 terse data area                                                             |
| 0   | (0) | ADDRESS    | 2   | STJ2LEN    | Length of JES2 terse section                                                       |
| 2   | (2) | ADDRESS    | 1   | STJ2TYPE   | Type of this header                                                                |
| 3   | (3) | ADDRESS    | 1   | STJ2MOD    | Modifier                                                                           |
| 3   | (3) | X'0'       | 0   | STJ2TMOD   | "0" JES2 Terse section modifier                                                    |
| 4   | (4) | BITSTRING  | 1   | STJ2FLG1   | General flag byte                                                                  |
|     |     | 1... ..    |     | STJ21PRO   | "B'10000000" Job is protected                                                      |
|     |     | .1.. ..    |     | STJ21IND   | "B'01000000" Job is set to independent mode                                        |
|     |     | .1. ....   |     | STJ21SYS   | "B'00100000" Job represents a system data set                                      |
|     |     | ...1 ....  |     | STJ21CNW   | "B'00010000" Job can be converted only by CNVT PCEs that can wait for OS resources |

## SSST Map

### Offsets

| Dec | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                    |
|-----|------|------------|-----|------------|------------------------------------------------------------------------------------------------|
| 5   | (5)  | BITSTRING  | 3   |            | Reserved for future use                                                                        |
| 8   | (8)  | BITSTRING  | 4   | STJ2JKEY   | Job key                                                                                        |
| 12  | (C)  | BITSTRING  | 8   | STJ2SPOL   | Spool data token                                                                               |
| 20  | (14) | SIGNED     | 4   | STJ2SPAC   | Number of track groups of spool space used by this job (if set to -1 then count not available) |
| 20  | (14) | X'18'      | 0   | STJ2SIZE   | ** -STATJ2TR" Length of section                                                                |

### Offsets

| Dec | Hex | Type/Value | Len | Name (Dim)   | Description                           |
|-----|-----|------------|-----|--------------|---------------------------------------|
| 0   | (0) | STRUCTURE  | 0   | STATAFFS     | , Member affinity data area           |
| 0   | (0) | ADDRESS    | 2   | STAFLEN      | Length of affinity section            |
| 2   | (2) | ADDRESS    | 1   | STAFATYPE    | Type of this header                   |
| 3   | (3) | ADDRESS    | 1   | STAFMOD      | Modifier                              |
| 3   | (3) | X'0'       | 0   | STAFMOD      | "0" Affinity section modifier         |
| 4   | (4) | ADDRESS    | 2   | STAFNUM      | Number of member names                |
| 6   | (6) | BITSTRING  | 2   |              | Reserved                              |
| 8   | (8) | CHARACTER  | 8   | STAFMEMB (0) | First member name                     |
| 8   | (8) | X'8'       | 0   | STAFSIZE     | ** -STATAFFS" Length of basic section |

### Offsets

| Dec | Hex | Type/Value | Len | Name (Dim) | Description                                                    |
|-----|-----|------------|-----|------------|----------------------------------------------------------------|
| 0   | (0) | STRUCTURE  | 0   | STATSCHD   | , Scheduling data area                                         |
| 0   | (0) | ADDRESS    | 2   | STSCLEN    | Length of scheduling data                                      |
| 2   | (2) | ADDRESS    | 1   | STSCATYPE  | Type of this header                                            |
| 3   | (3) | ADDRESS    | 1   | STSCMOD    | Modifier                                                       |
| 3   | (3) | X'0'       | 0   | STSCMOD    | "0" Scheduling data modifier                                   |
| 4   | (4) | BITSTRING  | 1   | STSCAHL    | Reasons why job won't run                                      |
|     |     | 1... ....  |     | STSCJCLS   | "B'10000000" Job class held                                    |
|     |     | .1.. ....  |     | STSCJCLM   | "B'01000000" Job class limit reached                           |
|     |     | ..1. ....  |     | STSCJSCH   | "B'00100000" Scheduling environment                            |
|     |     | ...1 ....  |     | STSCJAFF   | "B'00010000" System affinity                                   |
|     |     | .... 1...  |     | STSCJSPL   | "B'00001000" SPOOLS not available                              |
|     |     | .... .1..  |     | STSCJBSY   | "B'00000100" Job busy on device                                |
|     |     | .... ...1  |     | STSCNOSY   | "B'00000001" No system with the right combination of resources |
| 5   | (5) | BITSTRING  | 1   | STSCFLG1   | Flag byte                                                      |
|     |     | 1... ....  |     | STSC1JCM   | "B'10000000" Jobclass mode of JQE Off = JES, On = WLM          |
| 6   | (6) | BITSTRING  | 2   |            | Reserved                                                       |
| 8   | (8) | CHARACTER  | 8   | STSCSRVC   | WLM service class                                              |

Comment

STSCESTT is the estimated time to execution. This value is only available if the following are true:

- Job is awaiting execution
- Job is scheduled to a WLM managed job class
- Job is not held (duplicate job name, operator hold, etc)
- Member it has affinity to is available
- The scheduling environment is available

End of Comment

|    |      |           |    |          |                                        |
|----|------|-----------|----|----------|----------------------------------------|
| 16 | (10) | SIGNED    | 4  | STSCESTT | Estimated time to execution in seconds |
| 20 | (14) | CHARACTER | 16 | STSCSENV | WLM Scheduling environment             |

**Offsets**

| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
|-----|-----|------------|-----|------------|-------------|
|-----|-----|------------|-----|------------|-------------|

Comment

STSCQPOS is the position of the job on the WLM service class queue. STSCQNUM is the total number of jobs on the service class queue. Jobs which are not currently eligible to execute are not included in these counts. The count values are only returned if the flag STATSPPOS is set in STATSEL3 on input.

These values are only set to a non-zero value when the following are true:

- Job is awaiting execution
- Job is scheduled to a WLM managed job class
- Job is not held (job hold or class queue hold)
- Member it has affinity to is available
- The scheduling environment is available

End of Comment

|    |      |        |   |          |                                                 |
|----|------|--------|---|----------|-------------------------------------------------|
| 36 | (24) | SIGNED | 4 | STSCQPOS | Position of this job on WLM service class queue |
| 40 | (28) | SIGNED | 4 | STSCQNUM | Number of jobs on WLM WLM service class queue   |
| 44 | (2C) | SIGNED | 4 | STSCQACT | Number of active jobs in this WLM service class |

Comment

STSCAVGQ and STSCQDLY are the component parts used in calculating the estimated time to execution, and are set only when STSCESTT is also set.

End of Comment

|    |      |        |   |          |                                                                       |
|----|------|--------|---|----------|-----------------------------------------------------------------------|
| 48 | (30) | SIGNED | 4 | STSCAVGQ | Average queue time for this job's srvcass in seconds                  |
| 52 | (34) | SIGNED | 4 | STSCQTIM | Queue time for this job in TOD clock units (bit 31 = 1.04... seconds) |
| 52 | (34) | X'38'  | 0 | STSCSIZE | **"-STATSCHED" Length of basic section                                |

**Offsets**

| Dec | Hex | Type/Value | Len | Name (Dim)  | Description                           |
|-----|-----|------------|-----|-------------|---------------------------------------|
| 0   | (0) | STRUCTURE  | 0   | STATSCHS    | , Schedule systems section            |
| 0   | (0) | ADDRESS    | 2   | STSSLEN     | Length of sched sys section           |
| 2   | (2) | ADDRESS    | 1   | STSSSTYPE   | Type of this header                   |
| 3   | (3) | ADDRESS    | 1   | STSSMOD     | Modifier                              |
| 3   | (3) | X'1'       | 0   | STSSSTMOD   | "1" Schedulable system section        |
| 4   | (4) | ADDRESS    | 2   | STSSNUM     | Number of system names                |
| 6   | (6) | BITSTRING  | 2   |             | Reserved                              |
| 8   | (8) | CHARACTER  | 8   | STSSSYS (0) | First system name                     |
| 8   | (8) | X'8'       | 0   | STSSSIZE    | **"-STATSCHS" Length of basic section |

**Offsets**

| Dec | Hex  | Type/Value | Len | Name (Dim) | Description                                  |
|-----|------|------------|-----|------------|----------------------------------------------|
| 0   | (0)  | STRUCTURE  | 0   | STATSE     | , SYSOUT data section prolog                 |
| 0   | (0)  | CHARACTER  | 4   | STSEEYE    | Eye catcher                                  |
| 4   | (4)  | ADDRESS    | 2   | STSEOHDR   | Offset to first section                      |
| 6   | (6)  | BITSTRING  | 2   |            | Reserved for future use                      |
| 8   | (8)  | ADDRESS    | 4   | STSEJNXT   | Address of next SYSOUT data element          |
| 12  | (C)  | ADDRESS    | 4   | STSEJOB    | Address of associated job queue data element |
| 16  | (10) | ADDRESS    | 4   |            | Reserved for future use                      |
| 16  | (10) | X'14'      | 0   | STSESIZE   | **"-STATSE" Size of prologue                 |

## SSST Map

| Offsets |     |            |     |            |                                                     |
|---------|-----|------------|-----|------------|-----------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                         |
| 0       | (0) | STRUCTURE  | 0   | STATSEHD   | , SYSOUT section header                             |
| 0       | (0) | ADDRESS    | 2   | STSHLEN    | Length of entire SYSOUT header (Max value is 65535) |
| 2       | (2) | ADDRESS    | 1   | STSHTYPE   | Type of this header                                 |
| 3       | (3) | ADDRESS    | 1   | STSHMOD    | Modifier                                            |
| 3       | (3) | X'0'       | 0   | STSH1MOD   | "0" 1st Header Section modifier                     |
| 3       | (3) | X'4'       | 0   | STSHSIZE   | "*-STATSEHD" Size of 1st Header Section             |

| Offsets |      |            |     |              |                                                                                        |
|---------|------|------------|-----|--------------|----------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                            |
| 0       | (0)  | STRUCTURE  | 0   | STATSETR     | , SYSOUT terse section                                                                 |
| 0       | (0)  | ADDRESS    | 2   | STSTLEN      | Length of terse section                                                                |
| 2       | (2)  | ADDRESS    | 1   | STSTTYPE     | Type of this header                                                                    |
| 3       | (3)  | ADDRESS    | 1   | STSTMOD      | Modifier                                                                               |
| 3       | (3)  | X'0'       | 0   | STSTTMOD     | "0" Terse section modifier                                                             |
| 4       | (4)  | CHARACTER  | 8   | STSTOUID     | SYSOUT owner (creator)                                                                 |
| 12      | (C)  | CHARACTER  | 8   | STSTSECL     | SECLABEL for SYSOUT                                                                    |
| 20      | (14) | CHARACTER  | 18  | STSTDEST     | SYSOUT destination                                                                     |
| 38      | (26) | CHARACTER  | 8   | STSTCLAS     | SYSOUT class                                                                           |
| 46      | (2E) | SIGNED     | 4   | STSTNREC     | Record count                                                                           |
| 50      | (32) | SIGNED     | 4   | STSTPAGE     | Page count                                                                             |
| 54      | (36) | SIGNED     | 4   | STSTLNCT     | Line count                                                                             |
| 58      | (3A) | SIGNED     | 4   | STSTBYCT (2) | Byte count after blank truncation 63 bit right justified                               |
| 66      | (42) | CHARACTER  | 8   | STSTFORM     | Forms                                                                                  |
| 74      | (4A) | CHARACTER  | 8   | STSTFCB      | FCB                                                                                    |
| 82      | (52) | CHARACTER  | 8   | STSTUCS      | UCS                                                                                    |
| 90      | (5A) | CHARACTER  | 8   | STSTXWTR     | External writer name                                                                   |
| 98      | (62) | CHARACTER  | 8   | STSTPMDE     | Processing mode                                                                        |
| 106     | (6A) | CHARACTER  | 8   | STSTFLSH     | Flash                                                                                  |
| 114     | (72) | CHARACTER  | 4   | STSTCHAR (4) | Printer translate table                                                                |
| 130     | (82) | CHARACTER  | 4   | STSTMDF      | MODIFY=(modname)                                                                       |
| 134     | (86) | BITSTRING  | 1   | STSTMDC      | MODIFY=(,trc)                                                                          |
| 135     | (87) | BITSTRING  | 3   |              | Reserved for future use                                                                |
| 138     | (8A) | CHARACTER  | 8   | STSTSYS      | MVS system on which the SYSOUT is active (blanks if not active)                        |
| 146     | (92) | CHARACTER  | 8   | STSTMEM      | JES member on which the SYSOUT is active (blanks if not active)                        |
| 154     | (9A) | CHARACTER  | 18  | STSTDEVN     | Name of device on which the SYSOUT is active (blanks if not active)                    |
| 172     | (AC) | BITSTRING  | 1   | STSTHSTA     | SYSOUT hold state                                                                      |
|         |      | 1... ....  |     | STSTHOPR     | "B'10000000" SYSOUT is held due to operator command                                    |
|         |      | .1.. ....  |     | STSTHUSR     | "B'01000000" SYSOUT is currently held (eg HOLD=YES on the DD or OUTDISP=HOLD or LEAVE) |
|         |      | ..1. ....  |     | STSTHSYS     | "B'00100000" SYSOUT is in a system hold (see STSTHRSN for reason).                     |
|         |      | ...1 ....  |     | STSTHTSO     | "B'00010000" SYSOUT is held for TSO, JES3 only                                         |
|         |      | .... 1...  |     | STSTHXWT     | "B'00001000" SYSOUT is held for external writer. JES3 only                             |
| 173     | (AD) | BITSTRING  | 1   | STSTHRSN     | Reason for system hold (see fields OHLDJxxx in IAZOHL for meaning)                     |
| 174     | (AE) | BITSTRING  | 1   | STSTDISP     | Output disposition                                                                     |
|         |      | 1... ....  |     | STSTDHLD     | "B'10000000" OUTDISP=HOLD                                                              |
|         |      | .1.. ....  |     | STSTDLVE     | "B'01000000" OUTDISP=LEAVE                                                             |
|         |      | ..1. ....  |     | STSTDWRT     | "B'00100000" OUTDISP=WRITE                                                             |
|         |      | ...1 ....  |     | STSTDKEP     | "B'00010000" OUTDISP=KEEP                                                              |
| 175     | (AF) | BITSTRING  | 1   | STSTFLG1     | General flag byte                                                                      |
|         |      | 1... ....  |     | STST1BRT     | "B'10000000" BURST=YES                                                                 |
|         |      | .1.. ....  |     | STST1DSI     | "B'01000000" 3540 held data set                                                        |
|         |      | ..1. ....  |     | STST1IPA     | "B'00100000" Destination has an IPADDR                                                 |
|         |      | ...1 ....  |     | STST1CPD     | "B'00010000" Schedulable element has page mode data                                    |
|         |      | .... 1...  |     | STST1SPN     | "B'00001000" SPIN data set                                                             |
| 176     | (B0) | BITSTRING  | 1   | STSTPRIO     | SYSOUT priority                                                                        |

**Offsets**

| Dec                                                                                                                                                                                                                                                   | Hex  | Type/Value | Len | Name (Dim) | Description              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-----|------------|--------------------------|
| Comment                                                                                                                                                                                                                                               |      |            |     |            |                          |
| <p>The SYSOUT identifier (STSTSOID) is a EBCDIC value associated with this SYSOUT that can be used in operator commands. The exact contents vary based on whether JES2 or JES3 owns the SYSOUT and the release of JES processing the SSI request.</p> |      |            |     |            |                          |
| End of Comment                                                                                                                                                                                                                                        |      |            |     |            |                          |
| 177                                                                                                                                                                                                                                                   | (B1) | CHARACTER  | 44  | STSTSOID   | EBCDIC SYSOUT identifier |

|                                                                                                                                                                                                                                                                                                                                                                                                                         |      |           |    |          |                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|----|----------|-----------------------------------------|
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                 |      |           |    |          |                                         |
| <p>The SYSOUT client token (STSTCTKN) is a token that can be used on various APIs to access a specific piece of SYSOUT. The token returned may NOT be the same as the one returned on a SYSOUT allocation or used in ENF processing. It may also be different from the TOKEN passed for selection in STATCTKN. If you are tracking SYSOUT with a token received from allocation, do NOT replace it with this token.</p> |      |           |    |          |                                         |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                          |      |           |    |          |                                         |
| 221                                                                                                                                                                                                                                                                                                                                                                                                                     | (DD) | BITSTRING | 80 | STSTCTKN | SYSOUT client token                     |
| 221                                                                                                                                                                                                                                                                                                                                                                                                                     | (DD) | X'12D'    | 0  | STSTSIZE | **"-STATSETR" Size of Terse Information |

**Offsets**

| Dec | Hex  | Type/Value | Len | Name (Dim) | Description                                                                            |
|-----|------|------------|-----|------------|----------------------------------------------------------------------------------------|
| 0   | (0)  | STRUCTURE  | 0   | STATSJ2T   | , JES2 terse data area                                                                 |
| 0   | (0)  | ADDRESS    | 2   | STS2LEN    | Len of JES2 terse section                                                              |
| 2   | (2)  | ADDRESS    | 1   | STS2TYPE   | Type of this header                                                                    |
| 3   | (3)  | ADDRESS    | 1   | STS2MOD    | Modifier                                                                               |
| 3   | (3)  | X'0'       | 0   | STS2TMOD   | "0" JES2 Terse section modifier                                                        |
| 4   | (4)  | BITSTRING  | 1   | STS2FLG1   | General flags                                                                          |
|     |      | 1... ....  |     | STS21DSH   | "B'10000000" JOE has been cloned (all data sets must be processed identically by SAPI) |
|     |      | .1.. ....  |     | STS21TSO   | "B'01000000" JOE is available for TSO OUTPUT processing                                |
| 5   | (5)  | CHARACTER  | 26  | STS2OGNM   | SYSOUT group name                                                                      |
| 31  | (1F) | BITSTRING  | 4   | STS2CRTM   | JOE creation time (STCK format)                                                        |
| 31  | (1F) | X'23'      | 0   | STS2SIZE   | **"-STATSJ2T" Length of section                                                        |

**Offsets**

| Dec | Hex | Type/Value | Len | Name (Dim) | Description                         |
|-----|-----|------------|-----|------------|-------------------------------------|
| 0   | (0) | STRUCTURE  | 0   | STATSJ3T   | , JES3 terse data area              |
| 0   | (0) | ADDRESS    | 2   | STS3LEN    | Len of JES3 terse section           |
| 2   | (2) | ADDRESS    | 1   | STS3TYPE   | Type of this header                 |
| 3   | (3) | ADDRESS    | 1   | STS3MOD    | Modifier                            |
| 3   | (3) | X'0'       | 0   | STS3TMOD   | "0" JES3 Terse section modifier     |
| 4   | (4) | BITSTRING  | 1   | STS3FLG1   | General flags                       |
|     |     | 1... ....  |     | STS31XSY   | "B'10000000" Extended keywords used |
| 4   | (4) | X'5'       | 0   | STS3SIZE   | **"-STATSJ3T" Length of section     |

## SSST Cross Reference

### SSST Cross Reference

| Name         | Hex<br>Offset | Hex<br>Value | Name     | Hex<br>Offset | Hex<br>Value |
|--------------|---------------|--------------|----------|---------------|--------------|
| SSSTLEN8     | 148           | 1C8          | STATJQTR | 0             |              |
| STAFFIN      | 14            | 3            | STATJ2TR | 0             |              |
| STAFLEN      | 0             | 0            | STATLEN  | 0             | 1C8          |
| STAFMEMB     | 8             |              | STATLERR | 0             | 8            |
| STAFMOD      | 3             |              | STATMEM  | C             | 3            |
| STAFNUM      | 4             |              | STATMEMB | 98            |              |
| STAFSIZE     | 8             | 8            | STATNRJQ | D8            | 0            |
| STAFTMOD     | 3             | 0            | STATOJBI | 36            | 40404040     |
| STAFTYPE     | 2             |              | STATORGN | 60            | 40404040     |
| STAT         | 0             |              | STATOUTT | C             | 4            |
| STAT_ALLOC   | A1            | 8            | STATOWNR | 3E            | 40404040     |
| STAT_BRKDOWN | A1            | 11           | STATPARM | 0             |              |
| STAT_CMPLT   | A1            | 17           | STATPELM | C             |              |
| STAT_CONV    | A1            | 82           | STATPERF | E0            | 0            |
| STAT_DEMSEL  | A1            | 18           | STATPHAZ | A1            |              |
| STAT_DONE    | A1            | 13           | STATPLEN | C             | 10           |
| STAT_EFBAD   | A1            | 1A           | STATPPRM | 4             |              |
| STAT_EFWAIT  | A1            | 19           | STATPRIO | A0            |              |
| STAT_ERROR   | A1            | C            | STATPSIZ | 0             |              |
| STAT_EXEC    | A1            | FD           | STATPVER | 2             |              |
| STAT_FETCH   | A1            | 5            | STATPWRK | 8             |              |
| STAT_FSSCI   | A1            | 2            | STATRCLS | A             | 14           |
| STAT_INPUT   | A1            | 80           | STATRCST | A             | 3C           |
| STAT_MAXNDX  | A1            | 1B           | STATRDST | A             | 4            |
| STAT_NOSUB   | A1            | 1            | STATREAS | A             | 0            |
| STAT_ONMAIN  | A1            | E            | STATREA2 | B             | 0            |
| STAT_OSWAIT  | A1            | 16           | STATRECJ | A             | 70           |
| STAT_OUTPT   | A1            | 14           | STATREYE | A             | 24           |
| STAT_OUTQUE  | A1            | 15           | STATRJBH | A             | C            |
| STAT_POSTEX  | A1            | FE           | STATRJBL | A             | 8            |
| STAT_PSCBAT  | A1            | 3            | STATRJBN | A             | 2C           |
| STAT_PSCDSL  | A1            | 4            | STATRJLM | A             | 10           |
| STAT_PURG    | A1            | 87           | STATRLEN | A             | 28           |
| STAT_RECV    | A1            | 88           | STATRMEM | A             | 38           |
| STAT_RESTRT  | A1            | 12           | STATROJB | A             | 40           |
| STAT_SELECT  | A1            | D            | STATRORG | A             | 48           |
| STAT_SETUP   | A1            | 83           | STATROWN | A             | 30           |
| STAT_SPIN    | A1            | 84           | STATRPHZ | A             | 1C           |
| STAT_SYSSEL  | A1            | 7            | STATRPRI | A             | 50           |
| STAT_SYSVER  | A1            | B            | STATRPRM | C0            | 0            |
| STAT_VERIFY  | A1            | A            | STATRQUE | A             | 20           |
| STAT_VOLUAV  | A1            | 9            | STATRSCR | A             | 60           |
| STAT_VOLWT   | A1            | 6            | STATRSCT | A             | 5C           |
| STAT_WTBKDN  | A1            | 85           | STATRSEC | A             | 44           |
| STAT_WTCONV  | A1            | 81           | STATRSEN | A             | 58           |
| STAT_WTPURG  | A1            | 86           | STATRSSC | A             | 68           |
| STAT_WTXMIT  | A1            | 89           | STATRSSD | A             | 64           |
| STAT_XMIT    | A1            | 8A           | STATRSVC | A             | 54           |
| STATAFFS     | 0             |              | STATRSXW | A             | 6C           |
| STATCLSL     | 70            | 40404040     | STATRSYS | A             | 34           |
| STATCTKN     | 118           |              | STATRTN  | BC            |              |
| STATCVRL     | 7             | 3            | STATRTOK | 0             | 0            |
| STATCVRM     | 7             | 0            | STATRVOL | A             | 18           |
| STATDEST     | 4E            | 40404040     | STATRXEQ | A             | 4C           |
| STATEYE      | 2             | E2E3C1E3     | STATSAPC | 19            | 10           |
| STATINVA     | 0             | 4            | STATSCHD | 0             |              |
| STATINVT     | 0             | C            | STATSCHS | 0             |              |
| STATJBIH     | 2E            | 40404040     | STATSCLA | 136           | 40404040     |
| STATJBIL     | 26            | 40404040     | STATSCLS | 18            | 80           |
| STATJOBFB    | D4            |              | STATSCRE | 11C           | 40404040     |
| STATJOBNA    | 1E            | 40404040     | STATSCTK | 1C            | 80           |
| STATJQ       | 0             |              | STATSDES | 124           | 40404040     |
| STATJQHD     | 0             |              | STATSDST | 18            | 40           |



| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| STATSE   | 0          |           | STATTKSN | 10         |           |
| STATSECL | 46         | 40404040  | STATTKTK | 18         |           |
| STATSEHD | 0          |           | STATTKVR | A          |           |
| STATSEL1 | 18         | 0         | STATTRAK | 0          |           |
| STATSEL2 | 19         | 0         | STATTRKP | 14         |           |
| STATSEL3 | 1A         | 0         | STATTYPE | C          | 1         |
| STATSEL4 | 1B         | 0         | STATVER  | 6          |           |
| STATSENV | AA         | 40404040  | STATVERL | 6          |           |
| STATSETR | 0          |           | STATVERM | 7          |           |
| STATSHLD | 1A         | 10        | STATVERO | 8          | 0         |
| STATSIZE | 148        | 1C8       | STATVOL  | 78         | 40404040  |
| STATSIZ1 | 118        | 118       | STATV010 | 7          | 100       |
| STATSIZ2 | 118        | 118       | STATV020 | 7          | 200       |
| STATSIZ3 | 148        | 1C8       | STATV030 | 7          | 300       |
| STATSJBI | 18         | 10        | STATXEQN | 68         | 40404040  |
| STATSJBN | 18         | 20        | STHDLEN  | 0          |           |
| STATSJOB | 19         | 20        | STHDMOD  | 3          |           |
| STATSJ2T | 0          |           | STHDSIZE | 3          | 4         |
| STATSJ3T | 0          |           | STHDTYPE | 2          |           |
| STATSMEM | 1A         | 2         | STHD1HDR | 14         | 0         |
| STATSNHL | 1A         | 8         | STHD1MOD | 3          | 0         |
| STATSOJI | 18         | 8         | STJQEYE  | 0          | E2D1D8C5  |
| STATSORG | 1B         | 80        | STJQNEXT | 8          |           |
| STATSOWN | 18         | 4         | STJQOHR  | 4          | 18        |
| STATSPHZ | 1A         | 20        | STJQOSS  | 10         | 40404040  |
| STATSPOS | 1A         | 1         | STJQSE   | C          |           |
| STATSPRI | 1A         | 80        | STJQSIZE | 14         | 18        |
| STATSRVC | A2         | 40404040  | STJ2FLG1 | 4          | 0         |
| STATSSCL | 1C         | 10        | STJ2JKEY | 8          | 0         |
| STATSSDS | 1C         | 20        | STJ2LEN  | 0          | 18        |
| STATSSEC | 18         | 2         | STJ2MOD  | 3          |           |
| STATSSEN | 1B         | 10        | STJ2SIZE | 14         | 18        |
| STATSSHL | 1C         | 4         | STJ2SPAC | 14         | 0         |
| STATSSL1 | 1C         | 0         | STJ2SPOL | C          | 0         |
| STATSSNH | 1C         | 2         | STJ2TERS | 14         | 2         |
| STATSSOW | 1C         | 40        | STJ2TMOD | 3          | 0         |
| STATSSRV | 1B         | 20        | STJ2TYPE | 2          |           |
| STATSSTC | 19         | 80        | STJ21CNW | 4          | 10        |
| STATSSWR | 1C         | 8         | STJ21IND | 4          | 40        |
| STATSSYS | 1A         | 4         | STJ21PRO | 4          | 80        |
| STATSTBG | 18         |           | STJ21SYS | 4          | 20        |
| STATSTCP | 14         |           | STSCAHL  | 4          | 0         |
| STATSTHL | 8          |           | STSCAVGQ | 30         |           |
| STATSTID | 0          | E2E3C1E3  | STSCESTT | 10         |           |
| STATSTNX | 10         |           | STSCFLG1 | 5          | 0         |
| STATSTOR | 0          |           | STSCHE   | 14         | 4         |
| STATSTPL | C          | E6        | STSCJAFF | 4          | 10        |
| STATSTRP | 10         |           | STSCJBSY | 4          | 4         |
| STATSTSP | C          |           | STSCJCLM | 4          | 40        |
| STATSTSU | 19         | 40        | STSCJCLS | 4          | 80        |
| STATSTTL | D          |           | STSCJSCH | 4          | 20        |
| STATSTYP | 19         | FF        | STSCJSPL | 4          | 8         |
| STATSVOL | 1A         | 40        | STSCLEN  | 0          | 0         |
| STATSWTR | 13E        | 40404040  | STSCMOD  | 3          |           |
| STATSXEQ | 1B         | 40        | STSCNOSY | 4          | 1         |
| STATSYS  | 90         |           | STSCQACT | 2C         |           |
| STATTERS | C          | 1         | STSCQNUM | 28         |           |
| STATTKHL | 8          |           | STSCQPOS | 24         |           |
| STATTKID | 0          | E2E3C1E3  | STSCQTIM | 34         |           |
| STATTKND | 20         | 28        | STSCSENV | 14         | 40404040  |
| STATTKNX | C          |           | STSCSIZE | 34         | 38        |
| STATTKPR | 20         |           | STSCSRVC | 8          | 40404040  |
| STATTKRS | 14         |           | STSCTMOD | 3          | 0         |
| STATTKR2 | 15         |           | STSCTYPE | 2          |           |
| STATTKSK | 14         | FF        | STSC1JCM | 5          | 80        |

## SSST Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| STSEEYE  | 0          | E2D6E4E3  | STS2CRTM | 1F         | 0         |
| STSEJNXT | 8          |           | STS2FLG1 | 4          | 0         |
| STSEJOB  | C          |           | STS2LEN  | 0          | 23        |
| STSEOHDR | 4          | 14        | STS2MOD  | 3          |           |
| STSESIZE | 10         | 14        | STS2OGNM | 5          | 40404040  |
| STSHLEN  | 0          |           | STS2SIZE | 1F         | 23        |
| STSHMOD  | 3          |           | STS2TERS | 14         | 42        |
| STSHSIZE | 3          | 4         | STS2TMOD | 3          | 0         |
| STSHTYPE | 2          |           | STS2TYPE | 2          |           |
| STSH1HDR | 14         | 40        | STS21DSH | 4          | 80        |
| STSH1MOD | 3          | 0         | STS21TSO | 4          | 40        |
| STSSLEN  | 0          | 0         | STS3FLG1 | 4          | 0         |
| STSSMOD  | 3          |           | STS3LEN  | 0          | 5         |
| STSSNUM  | 4          |           | STS3MOD  | 3          |           |
| STSSSIZE | 8          | 8         | STS3SIZE | 4          | 5         |
| STSSSYS  | 8          |           | STS3TERS | 14         | 43        |
| STSSTMOD | 3          | 1         | STS3TMOD | 3          | 0         |
| STSSTYPE | 2          |           | STS3TYPE | 2          |           |
| STSTBYCT | 3A         | 0         | STS31XSY | 4          | 80        |
| STSTCHAR | 72         | 40404040  | STTRAPPC | 88         | 4         |
| STSTCLAS | 26         | 40404040  | STTRARMR | 8A         | 80        |
| STSTCTKN | DD         | 0         | STTRARMS | 8A         | 0         |
| STSTDEST | 14         | 40404040  | STTRARMW | 8A         | 40        |
| STSTDEVN | 9A         | 40404040  | STTRCLAS | 1C         | 40404040  |
| STSTDHLD | AE         | 80        | STTRDEVN | 74         | 40404040  |
| STSTDISP | AE         | 0         | STTRHOLD | 87         |           |
| STSTDKEP | AE         | 10        | STTRJDUP | 87         | 3         |
| STSDLVE  | AE         | 40        | STTRJHLD | 87         | 2         |
| STSTDWRT | AE         | 20        | STTRJID  | C          | 40404040  |
| STSTFCB  | 4A         | 40404040  | STTRJNHL | 87         | 1         |
| STSTFLG1 | AF         | 0         | STTRJOB  | 88         | 3         |
| STSTFLSH | 6A         | 40404040  | STTRJTYP | 88         |           |
| STSTFORM | 42         | 40404040  | STTRLEN  | 0          | 90        |
| STSTHOPR | AC         | 80        | STTRMEM  | 6C         | 40404040  |
| STSTHRSN | AD         | 0         | STTRMISC | 8B         | 0         |
| STSTHSTA | AC         | 0         | STTRMOD  | 3          |           |
| STSTHSYS | AC         | 20        | STTRMSPN | 8B         | 80        |
| STSTHTSO | AC         | 10        | STTRMXCC | 8D         |           |
| STSTHUSR | AC         | 40        | STTRMXRC | 8C         |           |
| STSTHXWT | AC         | 8         | STTRNAME | 4          | 40404040  |
| STSTLEN  | 0          | 12D       | STTROJID | 14         | 40404040  |
| STSTLNCT | 36         | 0         | STTRONOD | 24         | 40404040  |
| STSTMEM  | 92         | 40404040  | STTROUID | 54         | 40404040  |
| STSTMOD  | 3          |           | STTRPHAZ | 86         |           |
| STSTMDC  | 86         | 0         | STTRPRIO | 89         | 0         |
| STSTMDF  | 82         | 40404040  | STTRPRND | 34         | 40404040  |
| STSTNREC | 2E         | 0         | STTRPRRE | 3C         | 40404040  |
| STSTOUID | 4          | 40404040  | STTRPUND | 44         | 40404040  |
| STSTPAGE | 32         | 0         | STTRPURE | 4C         | 40404040  |
| STSTPMDE | 62         | 40404040  | STTRSECL | 5C         | 40404040  |
| STSTPRIO | B0         | 0         | STTRSIZE | 8D         | 90        |
| STSTSECL | C          | 40404040  | STTRSTC  | 88         | 1         |
| STSTSIZE | DD         | 12D       | STTRSYS  | 64         | 40404040  |
| STSTSOID | B1         | 40404040  | STTRTERS | 14         | 1         |
| STSTSYS  | 8A         | 40404040  | STTRTMOD | 3          | 0         |
| STSTTERS | 14         | 41        | STTRTSU  | 88         | 2         |
| STSTTMOD | 3          | 0         | STTRTYPE | 2          |           |
| STSTTYPE | 2          |           | STTRXAB  | 8C         | 80        |
| STSTUCS  | 52         | 40404040  | STTRXABN | 8C         | 5         |
| STSTXWTR | 5A         | 40404040  | STTRXCAB | 8C         | 6         |
| STST1BRT | AF         | 80        | STTRXCAN | 8C         | 4         |
| STST1CPD | AF         | 10        | STTRXCC  | 8C         | 2         |
| STST1DSI | AF         | 40        | STTRXCDE | 8C         | 40        |
| STST1IPA | AF         | 20        | STTRXEOM | 8C         | 8         |
| STST1SPN | AF         | 8         | STTRXIND | 8C         |           |

| <b>Name</b> | <b>Hex<br/>Offset</b> | <b>Hex<br/>Value</b> |
|-------------|-----------------------|----------------------|
| STTRXJCL    | 8C                    | 3                    |
| STTRXNOD    | 2C                    | 40404040             |
| STTRXNRM    | 8C                    | 1                    |
| STTRXSEC    | 8C                    | 7                    |
| STTRXUNK    | 8C                    | 0                    |



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## SSS2 Programming Interface information

Programming Interface information

SSS2

End of Programming Interface information

## SSS2 Heading Information

**Common Name:** SSOB Extension for SYSOUT Application Program Interface (SAPI)  
**Macro ID:** IAZSSS2  
**DSECT Name:** SSS2  
**Owning Component:** JES Common (SC141)  
**Eye-Catcher ID:** 'SSS2'  
 Offset: 4  
 Length: 4  
**Storage Attributes:** Subpool: any  
 Key: Key of SSI caller  
 Residency: Any  
**Size:** See SSS2SIZE equate  
**Created by:** Caller of SSI  
**Pointed to by:** SSOBINDV in the IEFSSOBH mapping macro  
**Serialization:** None required  
**Function:** Defines the SSOB extension used to request SYSOUT data sets from JES.

## SSS2 Map

| Offsets                                                                                                                                                                                                                                                                                                                             |     |            |     |             |                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|-----|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec                                                                                                                                                                                                                                                                                                                                 | Hex | Type/Value | Len | Name (Dim)  | Description                                                                                                                                             |
| 0                                                                                                                                                                                                                                                                                                                                   | (0) | STRUCTURE  | 0   | SSS2        | SSOB extension mapping - SSS2                                                                                                                           |
| Comment                                                                                                                                                                                                                                                                                                                             |     |            |     |             |                                                                                                                                                         |
| Process SYSOUT data sets return codes (SSOBRETN)<br>If a return code > 4 is given, and the SSS2JEST field is non-zero, the application should make a "cleanup" call. A "cleanup" call is requested by the application by setting bit SSS2CTRL in SSS2MSC1 after setting all fields defined by SSS2INPC and SSS2DISC to binary zeros |     |            |     |             |                                                                                                                                                         |
| End of Comment                                                                                                                                                                                                                                                                                                                      |     |            |     |             |                                                                                                                                                         |
| 0                                                                                                                                                                                                                                                                                                                                   | (0) | X'0'       | 0   | SSS2RTOK    | "0" Everything is ok                                                                                                                                    |
| 0                                                                                                                                                                                                                                                                                                                                   | (0) | X'4'       | 0   | SSS2EODS    | "4" No more data sets to select                                                                                                                         |
| 0                                                                                                                                                                                                                                                                                                                                   | (0) | X'8'       | 0   | SSS2INVA    | "8" Invalid search arguments                                                                                                                            |
| 0                                                                                                                                                                                                                                                                                                                                   | (0) | X'C'       | 0   | SSS2UNAV    | "12" Unable to process now                                                                                                                              |
| 0                                                                                                                                                                                                                                                                                                                                   | (0) | X'10'      | 0   | SSS2DUPJ    | "16" Duplicate jobnames (This RC can occur only if SSS2SDUP is on). The duplicate job may or may not have characteristics matching the SSS2 filter set. |
| 0                                                                                                                                                                                                                                                                                                                                   | (0) | X'14'      | 0   | SSS2IDST    | "20" Invalid destination specified                                                                                                                      |
| Comment                                                                                                                                                                                                                                                                                                                             |     |            |     |             |                                                                                                                                                         |
| SS2AUTH EQU 24 Authorization failed                                                                                                                                                                                                                                                                                                 |     |            |     |             |                                                                                                                                                         |
| End of Comment                                                                                                                                                                                                                                                                                                                      |     |            |     |             |                                                                                                                                                         |
| 0                                                                                                                                                                                                                                                                                                                                   | (0) | X'1C'      | 0   | SSS2TKNM    | "28" Token map failed. Application will not be allowed to allocate to data set & DISP=(,KEEP) will be forced                                            |
| 0                                                                                                                                                                                                                                                                                                                                   | (0) | X'20'      | 0   | SSS2LERR    | "32" Logic error (See the reason codes defined for SSS2REAS)                                                                                            |
| 0                                                                                                                                                                                                                                                                                                                                   | (0) | X'24'      | 0   | SSS2ICLS    | "36" SSS2CLAS not A-Z and not 0-9                                                                                                                       |
| 0                                                                                                                                                                                                                                                                                                                                   | (0) | X'28'      | 0   | SSS2BDIS    | "40" Disposition settings incorrect (See the reason codes defined for SSS2REAS)                                                                         |
| 0                                                                                                                                                                                                                                                                                                                                   | (0) | X'2C'      | 0   | SSS2CLON    | "44" Disposition for data set group not uniform (See SSS2DSH). DISP=(,KEEP) will be forced with no override disposition information honored             |
| 0                                                                                                                                                                                                                                                                                                                                   | (0) | ADDRESS    | 2   | SSS2LEN     | I.Length of Sysout extension                                                                                                                            |
| 2                                                                                                                                                                                                                                                                                                                                   | (2) | SIGNED     | 1   | SSS2VER (0) | I.SSOB version                                                                                                                                          |
| 2                                                                                                                                                                                                                                                                                                                                   | (2) | X'1'       | 0   | SSS2IVER    | "1" Initial version number                                                                                                                              |

## Offsets

| Dec | Hex | Type/Value | Len | Name (Dim) | Description                                                                    |
|-----|-----|------------|-----|------------|--------------------------------------------------------------------------------|
| 2   | (2) | X'2'       | 0   | SSS2VCTP   | "2" Version supporting Client Print                                            |
| 2   | (2) | X'2'       | 0   | SSS2CVER   | "SSS2VCTP" Current version number                                              |
| 3   | (3) | SIGNED     | 1   | SSS2REAS   | O.Reason code associated with SSOBRETN value of SSS2LERR, SSS2BDIS or SSS2EODS |

Comment

-----  
Begin SSS2LERR reason codes  
-----

End of Comment

|   |     |       |   |          |                                                                                                                   |
|---|-----|-------|---|----------|-------------------------------------------------------------------------------------------------------------------|
| 3 | (3) | X'4'  | 0 | SSS2RENI | "4" SSS2JEST zero, but SSS2DSN not null                                                                           |
| 3 | (3) | X'8'  | 0 | SSS2REIP | "8" SSS2SIPA and SSS2SIPN are mutually exclusive                                                                  |
| 3 | (3) | X'C'  | 0 | SSS2RALO | "12" Prior data set still allocated                                                                               |
| 3 | (3) | X'10' | 0 | SSS2RDUP | "16" SSS2SDUP on in SSS2SEL1 and wild cards used in SSS2JOBN                                                      |
| 3 | (3) | X'14' | 0 | SSS2RJBI | "20" SSS2JBIH < SSS2JBIL & SSS2SJBI on                                                                            |
| 3 | (3) | X'18' | 0 | SSS2RCRE | "24" SSS2CREA has error & SSS2SCRE on                                                                             |
| 3 | (3) | X'1C' | 0 | SSS2RLEN | "28" SSS2LEN is less than SSS2SIZE                                                                                |
| 3 | (3) | X'20' | 0 | SSS2RTYP | "32" SSS2TYPE is not valid                                                                                        |
| 3 | (3) | X'24' | 0 | SSS2RDES | "36" SSS2DEST has error & SSS2SDST on                                                                             |
| 3 | (3) | X'28' | 0 | SSS2RJNM | "40" SSS2JOBN has error & SSS2SJBN on                                                                             |
| 3 | (3) | X'2C' | 0 | SSS2RFRM | "44" SSS2FORM has error & SSS2SFRM on                                                                             |
| 3 | (3) | X'30' | 0 | SSS2RPGM | "48" SSS2PGMN has error & SSS2SPGM on                                                                             |
| 3 | (3) | X'34' | 0 | SSS2RPRM | "52" SSS2PRMO has error & SSS2SPRM on                                                                             |
| 3 | (3) | X'38' | 0 | SSS2RCLS | "56" SSS2CLSL has error & SSS2SCLS on                                                                             |
| 3 | (3) | X'3C' | 0 | SSS2RFCB | "60" SSS2FCB has error & SSS2SFCB on                                                                              |
| 3 | (3) | X'40' | 0 | SSS2RUCS | "64" SSS2UCS has error & SSS2SUCS on                                                                              |
| 3 | (3) | X'44' | 0 | SSS2RCHR | "68" SSS2CHAR has error & SSS2SCHR on                                                                             |
| 3 | (3) | X'48' | 0 | SSS2RMO  | "72" SSS2MOD has error & SSS2SMOD on                                                                              |
| 3 | (3) | X'4C' | 0 | SSS2RFL  | "76" SSS2FLSH has error & SSS2SFLS on                                                                             |
| 3 | (3) | X'50' | 0 | SSS2RLPM | "80" SSS2LMIN or SSS2LMAX is negative & SSS2SLIN is on -- or -- SSS2PMIN or SSS2PMAX is negative & SSS2SPAG is on |
| 3 | (3) | X'54' | 0 | SSS2RLPG | "84" SSS2LMIN > SSS2LMAX & SSS2SLIN on -- or -- SSS2PMIN > SSS2PMAX & SSS2SPAG on                                 |
| 3 | (3) | X'58' | 0 | SSS2RDE2 | "88" SSS2DES2 has error & SSS2TYPE is SSS2BULK & SSS2ROUT on                                                      |
| 3 | (3) | X'5C' | 0 | SSS2RVOL | "92" SSS2VOL has error & SSS2SVOL on                                                                              |
| 3 | (3) | X'60' | 0 | SSS2REYE | "96" SSS2EYE does not have "SSS2"                                                                                 |
| 3 | (3) | X'64' | 0 | SSS2RCTK | "100" SSS2CTKN bad & SSS2SCTK on                                                                                  |
| 3 | (3) | X'68' | 0 | SSS2RBRO | "104" SSS2SBRO on and SSS2TYPE is not SSS2PUGE                                                                    |
| 3 | (3) | X'6C' | 0 | SSS2RECJ | "108" SSS2SCTK & SSS2SJBI are mutually exclusive                                                                  |
| 3 | (3) | X'70' | 0 | SSS2RODS | "112" SSS2ODST has error & SSS2SODS on                                                                            |

Comment

Reason codes through 180 reserved for SSS2LERR

-----  
End of SSS2LERR reason codes  
----------  
Begin SSS2BDIS reason codes  
-----

End of Comment

|   |     |       |   |           |                                          |
|---|-----|-------|---|-----------|------------------------------------------|
| 3 | (3) | X'B8' | 0 | SSS2RDCL  | "184" SSS2DCLS has error                 |
| 3 | (3) | X'BC' | 0 | SSS2RDFR  | "188" SSS2DFOR has error                 |
| 3 | (3) | X'C0' | 0 | SSS2RDPG  | "192" SSS2DPGM has error                 |
| 3 | (3) | X'C4' | 0 | SSS2RDDDS | "196" SSS2DDES has error                 |
| 3 | (3) | X'C8' | 0 | SSS2RDHR  | "200" Both SSS2DHLD & SSS2DRLS specified |

## SSS2 Map

| Offsets                                                                                                                                                                                                                                                                                                                                     |      |            |     |              |                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-----|--------------|----------------------------------------------------------------------------------------------------------------------|
| Dec                                                                                                                                                                                                                                                                                                                                         | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                          |
| Comment                                                                                                                                                                                                                                                                                                                                     |      |            |     |              |                                                                                                                      |
| Reason codes through 236 reserved for SSS2BDIS                                                                                                                                                                                                                                                                                              |      |            |     |              |                                                                                                                      |
| -----                                                                                                                                                                                                                                                                                                                                       |      |            |     |              |                                                                                                                      |
| End of SSS2BDIS reason codes                                                                                                                                                                                                                                                                                                                |      |            |     |              |                                                                                                                      |
| -----                                                                                                                                                                                                                                                                                                                                       |      |            |     |              |                                                                                                                      |
| Begin SSS2EODS reason codes                                                                                                                                                                                                                                                                                                                 |      |            |     |              |                                                                                                                      |
| The following SSS2EODS reason codes are applicable                                                                                                                                                                                                                                                                                          |      |            |     |              |                                                                                                                      |
| only when SSS2CTKN is used as a filter:                                                                                                                                                                                                                                                                                                     |      |            |     |              |                                                                                                                      |
| SSS2RENM                                                                                                                                                                                                                                                                                                                                    |      |            |     |              |                                                                                                                      |
| SSS2RENS                                                                                                                                                                                                                                                                                                                                    |      |            |     |              |                                                                                                                      |
| -----                                                                                                                                                                                                                                                                                                                                       |      |            |     |              |                                                                                                                      |
| End of Comment                                                                                                                                                                                                                                                                                                                              |      |            |     |              |                                                                                                                      |
| 3                                                                                                                                                                                                                                                                                                                                           | (3)  | X'F0'      | 0   | SSS2RENM     | "240" No matching output                                                                                             |
| 3                                                                                                                                                                                                                                                                                                                                           | (3)  | X'F4'      | 0   | SSS2RENS     | "244" Matching output not selectable                                                                                 |
| Comment                                                                                                                                                                                                                                                                                                                                     |      |            |     |              |                                                                                                                      |
| Reason codes through 252 reserved for SSS2EODS                                                                                                                                                                                                                                                                                              |      |            |     |              |                                                                                                                      |
| -----                                                                                                                                                                                                                                                                                                                                       |      |            |     |              |                                                                                                                      |
| End of SSS2EODS reason codes                                                                                                                                                                                                                                                                                                                |      |            |     |              |                                                                                                                      |
| -----                                                                                                                                                                                                                                                                                                                                       |      |            |     |              |                                                                                                                      |
| End of Comment                                                                                                                                                                                                                                                                                                                              |      |            |     |              |                                                                                                                      |
| 4                                                                                                                                                                                                                                                                                                                                           | (4)  | CHARACTER  | 4   | SSS2EYE      | I.Eye catcher                                                                                                        |
| 8                                                                                                                                                                                                                                                                                                                                           | (8)  | CHARACTER  | 8   | SSS2APPL     | I.For application use. Either leave as binary zeros or supply an EBCDIC value which can be used for display purposes |
| 16                                                                                                                                                                                                                                                                                                                                          | (10) | BITSTRING  | 20  | SSS2APL1     | I.For application use.                                                                                               |
| Comment                                                                                                                                                                                                                                                                                                                                     |      |            |     |              |                                                                                                                      |
| -----                                                                                                                                                                                                                                                                                                                                       |      |            |     |              |                                                                                                                      |
| Applicable to each of the different type of calls defined for SSS2TYPE are the following:                                                                                                                                                                                                                                                   |      |            |     |              |                                                                                                                      |
| (1) The availability of data sets to select are considered those that are available at the time the search for a data set matching the selection criteria begins. That is, if a data set matching the selection criteria is created while the search is in progress, it is possible that the data set will not be found during this search. |      |            |     |              |                                                                                                                      |
| (2) The availability of data sets to select are considered those that are not currently being processed.                                                                                                                                                                                                                                    |      |            |     |              |                                                                                                                      |
| (3) The use of the token returned from Extended Status (SSI 80) can result in an EOD return code (SSS2EODS) returned to the user. This can result when the SYSOUT available at the time Extended Status was used has been processed by the time this call was made (SSS2RENM) or is currently being processed (SSS2RENS).                   |      |            |     |              |                                                                                                                      |
| -----                                                                                                                                                                                                                                                                                                                                       |      |            |     |              |                                                                                                                      |
| End of Comment                                                                                                                                                                                                                                                                                                                              |      |            |     |              |                                                                                                                      |
| 36                                                                                                                                                                                                                                                                                                                                          | (24) | BITSTRING  | 1   | SSS2TYPE (0) | I.Type of call                                                                                                       |



Offsets

| Dec                                                                                                                                                                                                                                                                                                                                                                                                    | Hex  | Type/Value | Len | Name (Dim)   | Description                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-----|--------------|------------------------------------------|
| Comment                                                                                                                                                                                                                                                                                                                                                                                                |      |            |     |              |                                          |
| <p>Request type of put/get. Find a data set matching the selection criteria.<br/>See above comments for SSS2TYPE for information about selection of matching SYSOUT.</p>                                                                                                                                                                                                                               |      |            |     |              |                                          |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                         |      |            |     |              |                                          |
| 36                                                                                                                                                                                                                                                                                                                                                                                                     | (24) | X'1'       | 0   | SSS2PUGE     | "1" Request type of Put/Get              |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                |      |            |     |              |                                          |
| <p>Request type of Count. Find data sets matching the selection criteria and count the number of data sets and the number of lines, pages, bytes, and records in those data sets.<br/>SAF checks are not made for the data sets.<br/>Counts are only a snapshot at the time the JES processes the request.<br/>See above comments for SSS2TYPE for information about selection of matching SYSOUT.</p> |      |            |     |              |                                          |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                         |      |            |     |              |                                          |
| 36                                                                                                                                                                                                                                                                                                                                                                                                     | (24) | X'2'       | 0   | SSS2COUN     | "2" Request type of Count.               |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                |      |            |     |              |                                          |
| <p>Bulk modify request. Find data sets matching the selection criteria and dispose of them as indicated in flag SSS2UFLG. No data sets will be made available to the caller.<br/>See above comments for SSS2TYPE for information about selection of matching SYSOUT.</p>                                                                                                                               |      |            |     |              |                                          |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                         |      |            |     |              |                                          |
| 36                                                                                                                                                                                                                                                                                                                                                                                                     | (24) | X'3'       | 0   | SSS2BULK     | "3" Bulk modify request.                 |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                |      |            |     |              |                                          |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                         |      |            |     |              |                                          |
| 37                                                                                                                                                                                                                                                                                                                                                                                                     | (25) | ADDRESS    | 3   |              | Reserved for future use and must be zero |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                |      |            |     |              |                                          |
| Begin optional input-only fields                                                                                                                                                                                                                                                                                                                                                                       |      |            |     |              |                                          |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                         |      |            |     |              |                                          |
| 40                                                                                                                                                                                                                                                                                                                                                                                                     | (28) | SIGNED     | 4   | SSS2INPT (0) | Beginning of input fields                |

## SSS2 Map

### Offsets

| Dec                                                                                                                                                                                                                                                                                                                                                             | Hex  | Type/Value | Len | Name (Dim) | Description                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-----|------------|-------------------------------------------------------------------|
| Comment                                                                                                                                                                                                                                                                                                                                                         |      |            |     |            |                                                                   |
| -----                                                                                                                                                                                                                                                                                                                                                           |      |            |     |            |                                                                   |
| <p>Address of an ECB to be POSTed when work is selected which satisfies the selection criteria that was in this SSOB when the return code of SSS2EODS was last returned. The ECB can be in private or common storage. Caller is allowed to free the memory for this ECB only after making a call with SSS2CTRL on in SSS2MSC1</p>                               |      |            |     |            |                                                                   |
| -----                                                                                                                                                                                                                                                                                                                                                           |      |            |     |            |                                                                   |
| End of Comment                                                                                                                                                                                                                                                                                                                                                  |      |            |     |            |                                                                   |
| 40                                                                                                                                                                                                                                                                                                                                                              | (28) | ADDRESS    | 4   | SSS2ECBP   | I.ECB address (see above)                                         |
| Comment                                                                                                                                                                                                                                                                                                                                                         |      |            |     |            |                                                                   |
| -----                                                                                                                                                                                                                                                                                                                                                           |      |            |     |            |                                                                   |
| <p>It is expected that SSS2RBA with the attendant SSS2CHKP bit will be used by applications as a mechanism for interrupting the normal processing of a group of data sets. The most JES-efficient use of this approach is to process and delete data sets and to use the RBA mechanism only when the application wants to defer processing to a later time.</p> |      |            |     |            |                                                                   |
| -----                                                                                                                                                                                                                                                                                                                                                           |      |            |     |            |                                                                   |
| End of Comment                                                                                                                                                                                                                                                                                                                                                  |      |            |     |            |                                                                   |
| 44                                                                                                                                                                                                                                                                                                                                                              | (2C) | BITSTRING  | 8   | SSS2RBA    | IO.Relative Byte Address of first record to be read (See RPLRBAR) |
| Comment                                                                                                                                                                                                                                                                                                                                                         |      |            |     |            |                                                                   |
| <p>SSS2UFLG is meaningful only if SSS2BULK is specified in SSS2TYPE</p>                                                                                                                                                                                                                                                                                         |      |            |     |            |                                                                   |
| -----                                                                                                                                                                                                                                                                                                                                                           |      |            |     |            |                                                                   |
| End of Comment                                                                                                                                                                                                                                                                                                                                                  |      |            |     |            |                                                                   |
| 52                                                                                                                                                                                                                                                                                                                                                              | (34) | BITSTRING  | 1   | SSS2UFLG   | IBM.User disposition flags                                        |
|                                                                                                                                                                                                                                                                                                                                                                 |      | 1... ....  |     | SSS2SETC   | "B'10000000" Use SSS2CLAS as the new class                        |
|                                                                                                                                                                                                                                                                                                                                                                 |      | .1.. ....  |     | SSS2DELC   | "B'01000000" Delete selected data set(s)                          |
|                                                                                                                                                                                                                                                                                                                                                                 |      | ..1. ....  |     | SSS2ROUT   | "B'00100000" Use SSS2DES2 as the new data set destination         |
|                                                                                                                                                                                                                                                                                                                                                                 |      | ...1 ....  |     | SSS2RLSE   | "B'00010000" Release selected data sets                           |
| Comment                                                                                                                                                                                                                                                                                                                                                         |      |            |     |            |                                                                   |
| <p>B'00001111' Reserved for future use and must X</p>                                                                                                                                                                                                                                                                                                           |      |            |     |            |                                                                   |
| -----                                                                                                                                                                                                                                                                                                                                                           |      |            |     |            |                                                                   |
| End of Comment                                                                                                                                                                                                                                                                                                                                                  |      |            |     |            |                                                                   |
| 53                                                                                                                                                                                                                                                                                                                                                              | (35) | BITSTRING  | 1   | (2)        | Reserved for future use and must be zero                          |
| 55                                                                                                                                                                                                                                                                                                                                                              | (37) | BITSTRING  | 1   | SSS2SEL1   | IS.Data set selection flags                                       |
| Comment                                                                                                                                                                                                                                                                                                                                                         |      |            |     |            |                                                                   |
| <p>Selection from one, two, or three queues can be specified. Held output and output destined for writers will be intermixed. The order of output with respect to held and non-held is not predictable.</p>                                                                                                                                                     |      |            |     |            |                                                                   |
| -----                                                                                                                                                                                                                                                                                                                                                           |      |            |     |            |                                                                   |
| End of Comment                                                                                                                                                                                                                                                                                                                                                  |      |            |     |            |                                                                   |

| Offsets                                      |      |            |     |            |                                                                                                                                                                                                                                            |
|----------------------------------------------|------|------------|-----|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec                                          | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                                                |
|                                              |      | 1... ..    |     | SSS2SHLD   | "B'10000000" Select "HOLD/LEAVE" output (JES2); Select "hold for TSO" output (JES3)                                                                                                                                                        |
|                                              |      | .1... ..   |     | SSS2SXWH   | "B'01000000" Select "hold for XWTR". In a JES2 environment, this has the same meaning as SSS2SHLD.                                                                                                                                         |
|                                              |      | 11... ..   |     | SSS2SHOL   | "B'11000000" Select from the hold queue. Specifying this setting guarantees that held output will be returned regardless of the JES servicing this request.                                                                                |
|                                              |      | ..1. ....  |     | SSS2SWTR   | "B'00100000" Select "WRITE/KEEP" output (JES2); Select from the writer queue if JES3.                                                                                                                                                      |
| 55                                           | (37) | X'E0'      | 0   | SSS2SAWT   | "SSS2SHLD+SSS2SXWH+SSS2SWTR" Select from all the above. If none of the three bits is set, then the request will be handled as if SSS2SWTR were specified.                                                                                  |
|                                              |      | ...1 ....  |     | SSS2SCLS   | "B'00010000" Use SSS2CLSL as the class selection list                                                                                                                                                                                      |
|                                              |      | .... 1...  |     | SSS2SDST   | "B'00001000" Use SSS2DEST as a filter                                                                                                                                                                                                      |
|                                              |      | .... .1..  |     | SSS2SJBK   | "B'00000100" Use SSS2JOBK as a filter                                                                                                                                                                                                      |
|                                              |      | .... .11.  |     | SSS2SDUP   | "B'00000110" Use SSS2JOBK as a filter, but give RC of SSS2DUPJ if duplicate jobs. This setting meaningful only if SSS2JOBK has no wild card characters. This setting is not used for a Bulk Modify (SSS2BULK) or Count (SSS2COUN) request. |
|                                              |      | .... ..1.  |     | SSS2SDU2   | "B'00000010" Give RC of SSS2DUPJ if duplicate job. This bit meaningful only if SSS2JOBK also set on                                                                                                                                        |
|                                              |      | .... ...1  |     | SSS2SJBI   | "B'00000001" Use SSS2JBIL and SSS2JBIH as filters. Mutually exclusive with SSS2SCTK                                                                                                                                                        |
| 56                                           | (38) | BITSTRING  | 1   | SSS2SEL2   | IS.More data set selection flags                                                                                                                                                                                                           |
|                                              |      | 1... ..    |     | SSS2SPGM   | "B'10000000" Use SSS2PGMN as a filter                                                                                                                                                                                                      |
|                                              |      | .1... ..   |     | SSS2SFRM   | "B'01000000" Use SSS2FORM as a filter                                                                                                                                                                                                      |
|                                              |      | ..1. ....  |     | SSS2SCRE   | "B'00100000" Use SSS2CREA as a filter                                                                                                                                                                                                      |
|                                              |      | ...1 ....  |     | SSS2SPRM   | "B'00010000" Use SSS2PRMO as a filter                                                                                                                                                                                                      |
|                                              |      | .... 1...  |     | SSS2SIPA   | "B'00001000" Only select output which has an Internet Protocol (IP) address                                                                                                                                                                |
|                                              |      | .... .1..  |     | SSS2SIPN   | "B'00000100" Only select output which has no IP address. This setting is mutually exclusive with SSS2SIPA                                                                                                                                  |
|                                              |      | .... ..1.  |     | SSS2SFCB   | "B'00000010" Use SSS2FCB as a filter                                                                                                                                                                                                       |
|                                              |      | .... ...1  |     | SSS2SUCS   | "B'00000001" Use SSS2UCS as a filter                                                                                                                                                                                                       |
| 57                                           | (39) | BITSTRING  | 1   | SSS2SEL3   | IS.More data set selection flags                                                                                                                                                                                                           |
|                                              |      | 1... ..    |     | SSS2SSTC   | "B'10000000" Include Started Tasks (STCs) (see note in SSS2STYP)                                                                                                                                                                           |
|                                              |      | .1... ..   |     | SSS2STSU   | "B'01000000" Include Time Sharing Users (TSUs) (see note in SSS2STYP)                                                                                                                                                                      |
|                                              |      | ..1. ....  |     | SSS2SJOB   | "B'00100000" Include batch jobs (JOBs) (see note in SSS2STYP)                                                                                                                                                                              |
|                                              |      | ...1 ....  |     | SSS2SAPC   | "B'00010000" Include APPC output (see note in SSS2STYP)                                                                                                                                                                                    |
| Comment                                      |      |            |     |            |                                                                                                                                                                                                                                            |
| B'00001111' Reserved for future output types |      |            |     |            |                                                                                                                                                                                                                                            |
| End of Comment                               |      |            |     |            |                                                                                                                                                                                                                                            |
|                                              |      | 1111 1111  |     | SSS2STYP   | "B'11111111" If none of these bits is on, then selection will be as if ALL of the bits are on.                                                                                                                                             |
| 58                                           | (3A) | BITSTRING  | 1   | SSS2SEL4   | IS.More data set selection flags                                                                                                                                                                                                           |
|                                              |      | 1... ..    |     | SSS2SMOD   | "B'10000000" Use SSS2MOD as a filter (SSS2NMOD in SSS2RET2 on if the JES does not support)                                                                                                                                                 |
|                                              |      | .1... ..   |     | SSS2SFLS   | "B'01000000" Use SSS2FLSH as a filter                                                                                                                                                                                                      |
|                                              |      | ..1. ....  |     | SSS2SAGE   | "B'00100000" Data sets selected must be at least as old as the value in SSS2AGE.                                                                                                                                                           |
|                                              |      | ...1 ....  |     | SSS2SLIN   | "B'00010000" Use minimum and maximum line counts specified in SSS2LMIN and SSS2LMAX as a data set group filter                                                                                                                             |
|                                              |      | .... 1...  |     | SSS2SPAG   | "B'00001000" Use minimum and maximum page counts specified in SSS2PMIN and SSS2PMAX as a data set group filter                                                                                                                             |
|                                              |      | .... .1..  |     | SSS2SPRI   | "B'00000100" Select output based on priority                                                                                                                                                                                               |

## SSS2 Map

| Offsets                                                                                                                                                                                                                                                                           |      |            |     |              |                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-----|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec                                                                                                                                                                                                                                                                               | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                   |      | .... ..1.  |     | SSS2SVOL     | "B'00000010" Select output based on the volume serial list in SSS2VOL (SSS2NVOL in SSS2RET2 on if the JES does not support)                                                            |
|                                                                                                                                                                                                                                                                                   |      | .... ..1   |     | SSS2SCHR     | "B'00000001" Use Printer translation tables in SSS2CHAR as a filter (SSS2NCHR in SSS2RET2 on if the JES does not support)                                                              |
| 59                                                                                                                                                                                                                                                                                | (3B) | BITSTRING  | 1   | SSS2SEL5     | IS.More data set selection flags                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                   |      | 1... ....  |     | SSS2SCPN     | "B'10000000" Only select output which is not a CPDS (Composed Page Data Set)                                                                                                           |
| Comment                                                                                                                                                                                                                                                                           |      |            |     |              |                                                                                                                                                                                        |
| <p>-----</p> <p>This filter can be used as the only input or in conjunction with the use of additional filters. If other filters are used, they must all match the SYSOUT attributes.</p> <p>-----</p>                                                                            |      |            |     |              |                                                                                                                                                                                        |
| End of Comment                                                                                                                                                                                                                                                                    |      |            |     |              |                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                   |      | .1.. ....  |     | SSS2SCTK     | "B'01000000" Use SSS2CTKN as a filter Mutually exclusive with SSS2SJBI                                                                                                                 |
|                                                                                                                                                                                                                                                                                   |      | ..1. ....  |     | SSS2SBRO     | "B'00100000" Application intent is to browse                                                                                                                                           |
|                                                                                                                                                                                                                                                                                   |      | ...1 ....  |     | SSS2SODS     | "B'00010000" Use SSS2ODST as a filter                                                                                                                                                  |
| 60                                                                                                                                                                                                                                                                                | (3C) | BITSTRING  | 1   | (2)          | Reserved for future use and must be zero                                                                                                                                               |
| 62                                                                                                                                                                                                                                                                                | (3E) | BITSTRING  | 1   | SSS2MSC1     | IS.Current data set misc. flags                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                   |      | 1... ....  |     | SSS2CTRL     | "B'10000000" On - Processing complete Off- Return data set name                                                                                                                        |
|                                                                                                                                                                                                                                                                                   |      | .11. ....  |     | SSS2FSWB     | "B'01100000" Return token for SJFREQ calls in field SSS2SWBT. This also means that the address of the SWBTUREQ buffer is returned in field SSS2SWTU                                    |
|                                                                                                                                                                                                                                                                                   |      | ..1. ....  |     | SSS2FSWT     | "B'00100000" Return address of SWBTUREQ buffer in field SSS2SWTU                                                                                                                       |
|                                                                                                                                                                                                                                                                                   |      | ...1 ....  |     | SSS2NJEH     | "B'00010000" Return address of NJE data set and job headers if available (SSS2NJED for data set header; SSS2NJEJ for job header) (SSS2NNHD in SSS2RET2 on if the JES does not support) |
| Comment                                                                                                                                                                                                                                                                           |      |            |     |              |                                                                                                                                                                                        |
| <p>B'00001111' Reserved for future use and must X</p>                                                                                                                                                                                                                             |      |            |     |              |                                                                                                                                                                                        |
| End of Comment                                                                                                                                                                                                                                                                    |      |            |     |              |                                                                                                                                                                                        |
| 63                                                                                                                                                                                                                                                                                | (3F) | BITSTRING  | 1   | (3)          | Reserved for future use and must be zero                                                                                                                                               |
| 66                                                                                                                                                                                                                                                                                | (42) | CHARACTER  | 8   | SSS2JOBN     | IS*.Jobname used for selection (if SSS2SJBN on)                                                                                                                                        |
| Comment                                                                                                                                                                                                                                                                           |      |            |     |              |                                                                                                                                                                                        |
| <p>-----</p> <p>jobid's are of the form: xxxnnnnn<br/>         where xxx is JOB, JO, or J<br/>         nnnnn is 1 to 7 digits<br/>         embedded and trailing blanks are OK<br/>         To influence the type of job selected, use the settings in SSS2SEL3.</p> <p>-----</p> |      |            |     |              |                                                                                                                                                                                        |
| End of Comment                                                                                                                                                                                                                                                                    |      |            |     |              |                                                                                                                                                                                        |
| 74                                                                                                                                                                                                                                                                                | (4A) | CHARACTER  | 8   | SSS2JBIL     | IS.Low jobid used for selection (if SSS2SJBI on).                                                                                                                                      |
| 82                                                                                                                                                                                                                                                                                | (52) | CHARACTER  | 8   | SSS2JBIH     | IS.High jobid used for selection (if SSS2SJBI on). This value must be null or at least as high as SSS2JBIL.                                                                            |
| 90                                                                                                                                                                                                                                                                                | (5A) | CHARACTER  | 8   | SSS2CREA     | IS*.Owning userid used for selection (if SSS2SCRE on) This is the SAF userid of the creating unit of work                                                                              |
| 98                                                                                                                                                                                                                                                                                | (62) | CHARACTER  | 8   | SSS2PRMO (4) | IS*.1 to 4 PRMODEs used for selection (if SSS2SPRM on). A sparse list is supported                                                                                                     |

| Offsets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |            |     |              |                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|-----|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Hex   | Type/Value | Len | Name (Dim)   | Description                                                                                                                                                                                    |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (62)  | X'62'      | 0   | SSS2PRMC     | "SSS2PRMO,*-SSS2PRMO,C'C" PRMODEs                                                                                                                                                              |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |            |     |              |                                                                                                                                                                                                |
| <p>-----</p> <p>In JES2, the userid portion of the destination can contain the generic characters ' ' and '?'. This can match SYSOUT with a route code that contains a corresponding userid routing. However, destinations of the format 'R ', 'RM ', 'RMT ', 'U ', and 'N ' will not match SYSOUT with a route code of remote, special local, local, anylocal, or NJE. Also, wildcards are not supported for destinations defined by DESTID initialization statements. For more information, see z/OS JES2 Initialization &amp; Tuning Guide's chapter, Controlling JES2 Processes.</p> <p>-----</p> |       |            |     |              |                                                                                                                                                                                                |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |            |     |              |                                                                                                                                                                                                |
| 130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (82)  | CHARACTER  | 18  | SSS2DEST     | IS*.Destination value used for selection (if SSS2SDST on). The format is node.userid or node.remote                                                                                            |
| 148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (94)  | BITSTRING  | 18  |              | Reserved for future use and must zero                                                                                                                                                          |
| 166                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (A6)  | CHARACTER  | 18  | SSS2DES2     | IBM.Destination value used for new destination (if SSS2ROUT on). The format is node.userid or node.remote                                                                                      |
| 184                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (B8)  | CHARACTER  | 8   | SSS2PGMN     | IS*.User writer name used for selection (if SSS2SPGM is on).                                                                                                                                   |
| 192                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (C0)  | CHARACTER  | 8   | SSS2FORM (8) | IS*.Form numbers used for selection (if SSS2SFRM is on). A sparse list is supported                                                                                                            |
| 192                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (C0)  | X'C0'      | 0   | SSS2FORC     | "SSS2FORM,*-SSS2FORM,C'C" Form numbers                                                                                                                                                         |
| 256                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (100) | BITSTRING  | 8   |              | Reserved for future use and must be zero                                                                                                                                                       |
| 264                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (108) | BITSTRING  | 8   |              | Reserved for future use and must be zero                                                                                                                                                       |
| 272                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (110) | CHARACTER  | 36  | SSS2CLSL     | IS.Sysout class list used for selection (if SSS2SCLS is on).                                                                                                                                   |
| 308                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (134) | CHARACTER  | 1   | SSS2CLAS     | IBM.New class if SSS2SETC is on.                                                                                                                                                               |
| 309                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (135) | BITSTRING  | 7   |              | Really reserved for future SYSOUT class use.                                                                                                                                                   |
| 316                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (13C) | SIGNED     | 4   | SSS2LMIN     | IS.Minimum line count for data set group (if SSS2SLIN is on)                                                                                                                                   |
| 320                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (140) | SIGNED     | 4   | SSS2LMAX (0) | IS.Maximum line count for data set group (if SSS2SLIN is on)                                                                                                                                   |
| 324                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (144) | SIGNED     | 4   | SSS2PMIN     | IS.Minimum page count for data set group (if SSS2SPAG is on)                                                                                                                                   |
| 328                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (148) | SIGNED     | 4   | SSS2PMAX (0) | IS.Maximum page count for data set group (if SSS2SPAG is on)                                                                                                                                   |
| 332                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (14C) | CHARACTER  | 4   | SSS2FCB      | IS.FCB image name used for selection (if SSS2SFCB is on)                                                                                                                                       |
| 336                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (150) | CHARACTER  | 4   | SSS2UCS      | IS.UCS image name used for selection (if SSS2SUCS is on)                                                                                                                                       |
| 340                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (154) | CHARACTER  | 4   | SSS2CHAR (4) | IS.Printer translate table selection (if SSS2SCHR is on). Supported only by JES3. A sparse list is supported                                                                                   |
| 340                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (154) | X'154'     | 0   | SSS2CHAC     | "SSS2CHAR,*-SSS2CHAR,C'C" Printer translate tables                                                                                                                                             |
| 356                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (164) | CHARACTER  | 4   | SSS2MOD      | IS.Modify image used for selection (if SSS2SMOD is on) Supported only by JES3.                                                                                                                 |
| 360                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (168) | CHARACTER  | 4   | SSS2FLSH     | IS.Flash cartridge ID for selection (if SSS2SFLS is on)                                                                                                                                        |
| 364                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (16C) | ADDRESS    | 4   | SSS2SECT     | I.Zero or an address of where the JES should place the security token. If the address of the token is provided, the version and length are presumed to be in the token.                        |
| 368                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (170) | BITSTRING  | 4   | SSS2AGE      | IS.Minimum age of data sets to be selected (if SSS2SAGE is on). The low order bit represents 1.048576 seconds.                                                                                 |
| 372                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (174) | CHARACTER  | 6   | SSS2VOL (4)  | IS.List of SPOOL volume serial numbers. When SSS2SVOL is on, jobs are selected if and only if the job has output on at least one of the volumes listed. (JES2 only) A sparse list is supported |
| 372                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (174) | X'174'     | 0   | SSS2VOLC     | "SSS2VOL,*-SSS2VOL,C'C" Volume serials                                                                                                                                                         |

## SSS2 Map

### Offsets

| Dec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Hex   | Type/Value | Len | Name (Dim)   | Description                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|-----|--------------|------------------------------------------------------------------------------------------|
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |            |     |              |                                                                                          |
| <p>The contents of the token pointed to by field SSS2CTKN are created by JES. The token allows for a quicker method of finding the associated data set. The tokens should not be compared or otherwise used except on SAPI or Extended Status calls. Two different tokens obtained via different means can point to the same data set. The token may have been obtained via:</p> <ul style="list-style-type: none"> <li>o A previous Extended Status request (see field STSTCTKN)</li> <li>o As the output of a PUT/GET request (in field SSS2DSTR)</li> <li>o Dynamic Allocation that specified the DALRTCTK text unit</li> </ul>                                                                |       |            |     |              |                                                                                          |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |            |     |              |                                                                                          |
| 396                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (18C) | ADDRESS    | 4   | SSS2CTKN     | IS.Address of client token used for selection (if SSS2SCTK is on).                       |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |            |     |              |                                                                                          |
| <p>Origin node is the NJE node of work submission. It is not the node of execution.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |            |     |              |                                                                                          |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |            |     |              |                                                                                          |
| 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (190) | CHARACTER  | 8   | SSS2ODST     | IS*.Origin node name used for selection (if SSS2SODS is on)                              |
| 408                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (198) | SIGNED     | 4   | (9)          | Reserved for future use and must be zero                                                 |
| 408                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (198) | X'28'      | 0   | SSS2INPC     | "SSS2INPT,*-SSS2INPT,C'X'" All input fields                                              |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |            |     |              |                                                                                          |
| <p>Begin optional disposition fields. These field are used to determine what is to be done with the data set that was last returned to the application and which is now being disposed of. If this is the first put/get call, then there is no "last" data set and so the following information is ignored. Settings in SSS2DSP1 and other dispositions are honored if and only if the keep bit (SSS2DKPE) is on. If SSS2DKPE is off and the data set has OUTDISP=KEEP then the data set will have OUTDISP=LEAVE after processing. If SSS2DKPE is off and the data set does not have OUTDISP=KEEP then the data set will be deleted regardless of other disposition settings in this section.</p> |       |            |     |              |                                                                                          |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |            |     |              |                                                                                          |
| 444                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (1BC) | SIGNED     | 4   | SSS2DISP (0) | Beginning of disposition fields                                                          |
| 444                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (1BC) | BITSTRING  | 1   | SSS2DSP1     | ID.Flags describing the disposition for the data set whose name is currently in SSS2DSN. |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | 1... ....  |     | SSS2DKPE     | "B'10000000" Keep the data set                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | .1... .... |     | SSS2RHLD     | "B'01000000" Keep the data set and make it non-selectable (system hold)                  |

Offsets

| Dec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Hex   | Type/Value | Len | Name (Dim) | Description                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|-----|------------|-----------------------------------------------------------------------------------------------------------------|
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |            |     |            |                                                                                                                 |
| <p>SSS2RNPR on means that the JES will not return the data set to the application address space again. The application should treat this as a suggestion (not iron clad) to the JES. The data set could be seen again by the application if:</p> <ul style="list-style-type: none"> <li>o The JES is restarted</li> <li>o The application is restarted</li> <li>o Some characteristic is changed by the operator or another application.</li> </ul>                                                                                                                                                                                                                                           |       |            |     |            |                                                                                                                 |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |            |     |            |                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ..1.  | ....       |     | SSS2RNPR   | "B'00100000" Keep the data set and leave it selectable, but never return to this Sysout API address space again |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |            |     |            |                                                                                                                 |
| <p>-----<br/> SSS2DHLD and SSS2RLS are mutually exclusive<br/> -----</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |            |     |            |                                                                                                                 |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |            |     |            |                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ...1  | ....       |     | SSS2DHLD   | "B'00010000" Hold the data set                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ....  | 1...       |     | SSS2DRLS   | "B'00001000" Release the data set                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ....  | .1..       |     | SSS2CHKP   | "B'00000100" Use SSS2RBA to checkpoint the data set position. Next data set returned will have SSS2DSF on       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ....  | ..1.       |     | SSS2DNWR   | "B'00000010" Set writer name to a null value                                                                    |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |            |     |            |                                                                                                                 |
| <p>SSS2RNPT on means that the JES will not return the data set to the application thread again. A thread begins with the first receipt of a token in field SSS2JEST and ends when the thread calls JES with the SSS2CTRL flag set. Other threads will be able to obtain the data set, provided their selection criteria allow it.</p> <p>The application should treat this as a suggestion (not iron clad) to the JES. The data set could be seen again by the thread if:</p> <ul style="list-style-type: none"> <li>o The JES is restarted</li> <li>o Some characteristic is changed by the operator or another application or thread.</li> <li>o Selection by token is requested</li> </ul> |       |            |     |            |                                                                                                                 |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |            |     |            |                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ....  | ...1       |     | SSS2RNPT   | "B'00000001" Leave the data set selectable, but never return to this Sysout API thread again                    |
| 445                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (1BD) | BITSTRING  | 1   | (3)        | Reserved for future use and must be zero                                                                        |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |            |     |            |                                                                                                                 |
| <p>The following fields are used to change a subset of the data set characteristics. These only have meaning if the data set is kept (SSS2DKEP on in SSS2DSP1).</p> <p>A null value (all blanks or all X'00') is taken to mean that no override is desired for character fields. A value of zero for a binary field is taken to mean that no override is desired.</p>                                                                                                                                                                                                                                                                                                                         |       |            |     |            |                                                                                                                 |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |            |     |            |                                                                                                                 |

## SSS2 Map

| Offsets |       |            |     |            |                                                                     |
|---------|-------|------------|-----|------------|---------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim) | Description                                                         |
| 448     | (1C0) | CHARACTER  | 1   | SSS2DCLS   | ID.New class                                                        |
| 449     | (1C1) | BITSTRING  | 7   |            | Really reserved for future use and must be zero                     |
| 456     | (1C8) | CHARACTER  | 8   | SSS2DFOR   | ID.New forms                                                        |
| 464     | (1D0) | CHARACTER  | 8   | SSS2DPGM   | ID.New user writer name                                             |
| 472     | (1D8) | CHARACTER  | 18  | SSS2DDES   | ID.New destination. The format is node.userid or node.remote        |
| 490     | (1EA) | SIGNED     | 2   | SSS2CLFT   | ID.Number of copies left to process Values > 255 are treated as 255 |
| 492     | (1EC) | SIGNED     | 4   | (12)       | Reserved for future use and must be zero                            |
| 492     | (1EC) | X'1BC'     | 0   | SSS2DISC   | "SSS2DISP,*-SSS2DISP,C'X'" Disposition fields                       |

Comment

-----  
End of optional disposition fields.  
-----

Begin output-only fields

End of Comment

|     |       |        |   |              |                            |
|-----|-------|--------|---|--------------|----------------------------|
| 540 | (21C) | SIGNED | 4 | SSS2OUTP (0) | O.Beginning of output area |
|-----|-------|--------|---|--------------|----------------------------|

Comment

The JES token returned in SSS2JEST is the linking mechanism that ties SAPI requests and DYNALLOC requests together. In addition, the token is what ties the stream of requests together. SAPI is designed such that for a given call of type SSS2PUGE, the last data set returned to the caller (for this stream) is disposed of before the next data set is provided.

The application must provide DALSSREQ (supplying the JES subsystem name (e.g. JES2 or JESA or JES3)) and a dynamic allocation text unit pointer which points to the address supplied in SSS2BTOK. In addition a text unit with DALDSNAM which uses the data set name returned in SSS2DSN must be supplied.

R1 ---> A(RBpointer) High order bit on

```

|
+-----+
|
V
RB (request block)
.
.
.
S99TXTPP address of text pointers
|
+-----> A(text1)
|
+----> AL2(DALDSNAM,1,44)
      CL4'data set name'
A(text2)
|
+----> AL2(DALSSREQ,1,4)
      CL4'subsystem name'
A(value copied from field SSS2BTOK)
|
+----> AL2(DALBRTKN,7,....)
.
.
.
. high order bit on for last pointer

```

End of Comment



| Offsets |       |            |     |              |                                                                                                                                                                  |
|---------|-------|------------|-----|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim)   | Description                                                                                                                                                      |
| 540     | (21C) | BITSTRING  | 12  | SSS2JEST     | O.JES token associated with this SAPI request. A zero value here implies that this is a new request. A new request implies that the SSS2DSN is null.             |
| 552     | (228) | ADDRESS    | 4   | SSS2BTOK     | O.Address of a JES initialized data area which must be pointed to by a dynamic allocation text unit pointer.                                                     |
| 556     | (22C) | SIGNED     | 2   | SSS2COPY     | O.Total number of copies requested by creator. A data set will be returned via this interface only once no matter how many copies were specified by the creator. |
| 558     | (22E) | SIGNED     | 2   |              | Reserved for future use and must be zero                                                                                                                         |
| 560     | (230) | SIGNED     | 1   | SSS2CPYG (8) | O.Copy groups                                                                                                                                                    |
| 568     | (238) | CHARACTER  | 8   | SSS2JOBR     | O.Jobname of selected job                                                                                                                                        |
| 576     | (240) | CHARACTER  | 8   | SSS2JBIR     | O.Job ID of selected job                                                                                                                                         |
| 584     | (248) | CHARACTER  | 8   | SSS2OJBI     | O.Original jobid of selected job. (Original id may be different from current jobid) (JES3 always returns blanks)                                                 |
| 592     | (250) | CHARACTER  | 8   | SSS2CRER     | O.Owning userid of data set selected                                                                                                                             |
| 600     | (258) | CHARACTER  | 8   | SSS2JDVT     | O.JCL Definition Vector Table                                                                                                                                    |
| 608     | (260) | CHARACTER  | 8   | SSS2PRMR     | O.PRMODE of data set selected                                                                                                                                    |
| 616     | (268) | CHARACTER  | 18  | SSS2DESR     | O.Destination of selected data set. The format is node.userid or node.remote                                                                                     |
| 634     | (27A) | CHARACTER  | 8   | SSS2PGMR     | O.Writer name of selected data set                                                                                                                               |
| 642     | (282) | CHARACTER  | 8   | SSS2FORR     | O.Form number of selected data set                                                                                                                               |
| 650     | (28A) | CHARACTER  | 8   | SSS2TJN      | O.APPC Transaction Program Jobname that created this data set                                                                                                    |
| 658     | (292) | CHARACTER  | 8   | SSS2TJID     | O.APPC Transaction Program Job ID that created this data set                                                                                                     |
| 666     | (29A) | CHARACTER  | 44  | SSS2DSN      | O.Data set name of selected data set. Must be blanks or zeros if SSS2JEST is zero. No assumptions should be made regarding the format of the data set name       |
| 710     | (2C6) | SIGNED     | 2   |              | Reserved for future use and must be zero                                                                                                                         |
| 712     | (2C8) | SIGNED     | 4   | SSS2SEGM     | O.Segment id (zero if data set not segmented)                                                                                                                    |
| 716     | (2CC) | SIGNED     | 4   | SSS2WRTN     | O.SWB Processing Error - Return Code. Reason code field SSS2WRSN also set                                                                                        |
| 716     | (2CC) | X'0'       | 0   | SSS2WOK      | "0" Processing successful                                                                                                                                        |
| 716     | (2CC) | X'4'       | 0   | SSS2WERR     | "4" Processing failed                                                                                                                                            |

Comment

-----  
SSS2WRSN has the following values:  
SSSSCCRR where SSSCCRR is defined as:  
SSSS Reason code from SJF service RR  
or a qualifier for a JES service error  
CC Return code from SJF service RR -  
00 if RR is 4 or 8  
RR indicates the SJF service or JES service  
4 = JES SPOOL I/O Error  
8 = JES Memory management error  
12 = SWB\_MERGE  
16 = PUTSWB  
20 = JDTEXTTRACT  
24 = SWBTUREQ RETRIEVE  
-----

End of Comment

|     |       |           |   |          |                                                                                   |
|-----|-------|-----------|---|----------|-----------------------------------------------------------------------------------|
| 720 | (2D0) | SIGNED    | 4 | SSS2WRSN | O.SWB Processing Error - Reason Code set to non-zero only if SSS2WRTN is non-zero |
| 724 | (2D4) | CHARACTER | 1 | SSS2CLAR | O.Sysout class of selected data set                                               |
| 725 | (2D5) | BITSTRING | 7 |          | Really reserved for future use and must be zero                                   |
| 732 | (2DC) | SIGNED    | 2 | SSS2MLRL | O.Maximum logical record length (LRECL)                                           |
| 734 | (2DE) | CHARACTER | 8 | SSS2DSID | O.DSID for the selected data set                                                  |
| 742 | (2E6) | BITSTRING | 1 | SSS2RET1 | O.Returned flags                                                                  |
|     |       | 1... ..   |   | SSS2GNVA | "B'10000000" An output group name has been returned in SSS2OGNM (JES2 only)       |

# SSS2 Map

| Offsets |       |            |     |            |                                                                                                                                                                                                                                        |
|---------|-------|------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                                            |
|         |       | .1.. ....  |     | SSS2DSCL   | "B'01000000" Line count, page count, byte count, and record count (SSS2LNCT, SSS2PGCT, SSS2BYCT, and SSS2RCCT) are accurate. This bit will not be on if there was an abnormal termination or the data was created on a different node. |
|         |       | ..1. ....  |     | SSS2DSF    | "B'00100000" First data set in output group                                                                                                                                                                                            |
|         |       | ..11 ....  |     | SSS2DSC    | "B'00110000" Output group being continued                                                                                                                                                                                              |
|         |       | .... 1...  |     | SSS2DSL    | "B'00001000" Last data set in output group                                                                                                                                                                                             |
|         |       | .... .1..  |     | SSS2IP     | "B'00000100" An Internet Protocol (IP) destination is available in the SJF data. See (SSS2SWBT and SSS2SWTU)                                                                                                                           |
|         |       | .... ..1.  |     | SSS2BRST   | "B'00000010" BURST=YES specified                                                                                                                                                                                                       |
|         |       | .... ...1  |     | SSS2OPTJ   | "B'00000001" OPTCD=J specified                                                                                                                                                                                                         |
| 743     | (2E7) | BITSTRING  | 1   | SSS2RET2   | O.Returned flags                                                                                                                                                                                                                       |
|         |       | 1... ....  |     | SSS2NCHR   | "B'10000000" Selection using printer translation tables not supported Turned on only if JES does not support and SSS2SCHR is on                                                                                                        |
|         |       | .1.. ....  |     | SSS2NVOL   | "B'01000000" Selecting output based on a volume serial list not supported Turned on only if JES does not support and SSS2SVOL is on                                                                                                    |
|         |       | ..1. ....  |     | SSS2NNHD   | "B'00100000" Returning addresses of NJE headers not supported Turned on only if JES does not support and SSS2NJEH is on                                                                                                                |
|         |       | ...1 ....  |     | SSS2NMOD   | "B'00010000" Selecting output based on Copy modification not supported Turned on only if JES does not support and SSS2SMOD is on                                                                                                       |
|         |       | .... 1...  |     | SSS2NPRI   | "B'00001000" Selecting output in priority order not supported. Turned on only if JES does not support and SSS2SPRI is on                                                                                                               |
|         |       | .... .1..  |     | SSS2NIPA   | "B'00000100" IP Address selection not supported. Turned on if JES does not support and SSS2SIPA or SSS2SIPN are on                                                                                                                     |
| 744     | (2E8) | BITSTRING  | 1   | SSS2RET3   | O.Returned flags                                                                                                                                                                                                                       |
|         |       | 1... ....  |     | SSS2RSTC   | "B'10000000" Data set created by a started task (STC)                                                                                                                                                                                  |
|         |       | .1.. ....  |     | SSS2RTSU   | "B'01000000" Data set created by a time sharing user (TSU)                                                                                                                                                                             |
|         |       | ..1. ....  |     | SSS2RJOB   | "B'00100000" Data set created by a batch job                                                                                                                                                                                           |
| 745     | (2E9) | BITSTRING  | 1   | SSS2RET4   | O.Returned flags                                                                                                                                                                                                                       |
|         |       | 1... ....  |     | SSS2CPDS   | "B'10000000" Data set has page mode data                                                                                                                                                                                               |
|         |       | .1.. ....  |     | SSS2SPUN   | "B'01000000" Data set was spun at close                                                                                                                                                                                                |
|         |       | ..1. ....  |     | SSS2DSH    | "B'00100000" All data sets in the current output group must be unallocated identically                                                                                                                                                 |
| 746     | (2EA) | BITSTRING  | 1   | SSS2RET5   | O.Queue where data set resides                                                                                                                                                                                                         |
|         |       | 1... ....  |     | SSS2RHLV   | "B'10000000" Data set on "HOLD/LEAVE" queue (JES2) or "hold @OW32461 for TSO" queue (JES3) @OW32461                                                                                                                                    |
|         |       | .1.. ....  |     | SSS2RXWH   | "B'01000000" Data set on "hold for @OW32461 XWTR" queue. This @OW32461 bit will never be on in a JES2 environment.                                                                                                                     |
|         |       | 11.. ....  |     | SSS2RHOL   | "B'11000000" Data set on one of the held queues if one of these bits is on.                                                                                                                                                            |
|         |       | ..1. ....  |     | SSS2RWTR   | "B'00100000" Data set on "WRITE/KEEP" queue (JES2) or "writer" queue if JES3                                                                                                                                                           |

Comment

EQU B'00011111' Reserved for future use

End of Comment

747 (2EB) BITSTRING 1 Reserved for future use and must be zero

Comment

The following four count fields are valid only if SSS2DSCL is on in SSS2RET1.  
The fields represent counts for the single data set returned if SSS2TYPE is SSS2PUGE. The fields represent the total for all data sets selected if SSS2TYPE is SSS2COUN.

End of Comment

## Offsets

| Dec | Hex   | Type/Value | Len | Name (Dim)   | Description                                                                                |
|-----|-------|------------|-----|--------------|--------------------------------------------------------------------------------------------|
| 748 | (2EC) | SIGNED     | 4   | SSS2LNCT     | O.Line count                                                                               |
| 752 | (2F0) | SIGNED     | 4   | SSS2PGCT     | O.Page count                                                                               |
| 756 | (2F4) | SIGNED     | 4   | SSS2BYCT (2) | O.Byte count after blank truncation 63 bit right justified                                 |
| 764 | (2FC) | SIGNED     | 4   | SSS2RCCT     | O.Record count (JES3 only)                                                                 |
| 768 | (300) | CHARACTER  | 8   | SSS2PRCD     | O.Procname for the step creating this data set                                             |
| 776 | (308) | CHARACTER  | 8   | SSS2STPD     | O.Stepname for the step creating this data set                                             |
| 784 | (310) | CHARACTER  | 8   | SSS2DDND     | O.DDNAME for the data set creation                                                         |
| 792 | (318) | BITSTRING  | 8   | SSS2SWBT     | O.Token used for SJFREQ services. This field is filled in if flag SSS2FSWB is set.         |
| 800 | (320) | ADDRESS    | 4   | SSS2SWTU     | O.Address of the SWBTU block. This field is filled in if flag SSS2FSWT or SSS2FSWB is set. |

Comment

-----  
Data in SSS2PRIV is installation dependent data  
-----

End of Comment

|     |       |           |   |          |                                                                    |
|-----|-------|-----------|---|----------|--------------------------------------------------------------------|
| 804 | (324) | BITSTRING | 8 | SSS2PRIV | IO.Copied from/to SAPPRIV if JES2, copied from/to COWPRIV if JES3. |
| 812 | (32C) | CHARACTER | 4 | SSS2CHR1 | O.Printer translate table 1                                        |
| 816 | (330) | CHARACTER | 4 | SSS2CHR2 | O.Printer translate table 2                                        |
| 820 | (334) | CHARACTER | 4 | SSS2CHR3 | O.Printer translate table 3                                        |
| 824 | (338) | CHARACTER | 4 | SSS2CHR4 | O.Printer translate table 4                                        |

Comment

The data set returned with a given output group name will not necessarily continue to have the given output group name if this request keeps the data set.

End of Comment

|     |       |           |    |          |                                                                                                                                      |
|-----|-------|-----------|----|----------|--------------------------------------------------------------------------------------------------------------------------------------|
| 828 | (33C) | CHARACTER | 26 | SSS2OGNM | O.JES2 output group name                                                                                                             |
| 854 | (356) | BITSTRING | 2  |          | Reserved for future use and must be zero                                                                                             |
| 856 | (358) | CHARACTER | 4  | SSS2RMOD | O.Printer copy modification                                                                                                          |
| 860 | (35C) | SIGNED    | 1  | SSS2MODT | O.Printer table reference character                                                                                                  |
| 861 | (35D) | CHARACTER | 4  | SSS2RFLS | O.Printer flash cartridge ID                                                                                                         |
| 865 | (361) | SIGNED    | 1  | SSS2FLSC | O.Number of flash copies                                                                                                             |
| 866 | (362) | SIGNED    | 1  | SSS2PRIO | O.Data set priority                                                                                                                  |
| 867 | (363) | SIGNED    | 1  | SSS2LINC | O.Lines/page (JES2 only)                                                                                                             |
| 868 | (364) | BITSTRING | 4  | SSS2TOD  | O.Date and time of data set availability in TOD format (i.e. this value is the high order word of the TOD clock obtained via a STCK) |
| 872 | (368) | SIGNED    | 4  | SSS2CDS  | O.Count of work units (JOEs/OSes) which match the selection criteria.                                                                |
| 876 | (36C) | ADDRESS   | 4  | SSS2NJED | O.Address of NJE data set header. This field will be non-zero if a data set header is available and SSS2NJEH flag is on              |
| 880 | (370) | CHARACTER | 4  | SSS2FCBR | O.Forms Control Buf (FCB) Set to asterisks (*****) if default FCB is returned                                                        |
| 884 | (374) | CHARACTER | 4  | SSS2UCSR | O.Univ Character Set (UCS) Set to asterisks (*****) if default UCS is returned                                                       |
| 888 | (378) | ADDRESS   | 4  | SSS2DSTR | O.Address of data set token                                                                                                          |
| 892 | (37C) | SIGNED    | 4  | (9)      | Reserved for future use and must be zero.                                                                                            |

Comment

Begin JOB level output-only fields

End of Comment

|     |       |           |    |          |                                          |
|-----|-------|-----------|----|----------|------------------------------------------|
| 928 | (3A0) | CHARACTER | 20 | SSS2PNAM | O.Programmer name from the JOB statement |
| 948 | (3B4) | CHARACTER | 8  | SSS2ROOM | O.Job level room number                  |
| 956 | (3BC) | CHARACTER | 8  | SSS2NOTN | O.Job notify node                        |

## SSS2 Map

| Offsets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |            |     |            |                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|-----|------------|-----------------------------------------------------------------------------------------------------------------|
| Dec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Hex   | Type/Value | Len | Name (Dim) | Description                                                                                                     |
| 964                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (3C4) | CHARACTER  | 8   | SSS2NOTU   | O.Job notify userid                                                                                             |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |            |     |            |                                                                                                                 |
| <p>Accounting information is provided in "SMF" format, just as it is in type 5 and type 30 SMF records.</p> <p>AL1(number-of-pairs-that-follow)<br/> followed by 0 or more pairs of the form:<br/> AL1(length),CLlength'string'<br/> A length of 0 indicates an omitted field</p> <p>Example: Accounting information of (X3600,42,,FERN)</p> <p>DC AL1(4) Nr of fields<br/> DC AL1(5),CL5'X3600' field 1<br/> DC AL1(2),CL2'42' field 2<br/> DC AL1(0) field 3 (null)<br/> DC AL1(4),CL4'FERN' field 4</p> |       |            |     |            |                                                                                                                 |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |            |     |            |                                                                                                                 |
| 972                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (3CC) | ADDRESS    | 4   | SSS2ACCT   | O.Address of encoded accounting information.                                                                    |
| 976                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (3D0) | CHARACTER  | 8   | SSS2XEQ    | O.Node where job executed                                                                                       |
| 984                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (3D8) | CHARACTER  | 8   | SSS2ORG    | O.Node where job entered network                                                                                |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |            |     |            |                                                                                                                 |
| <p>-----<br/> Time and date are local, not UCT/GMT<br/> -----</p>                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |            |     |            |                                                                                                                 |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |            |     |            |                                                                                                                 |
| 992                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (3E0) | SIGNED     | 4   | SSS2TIME   | O.Time on input processor for the selected job. This is in hundredths of seconds since midnight.                |
| 996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (3E4) |            | 4   | SSS2DATE   | O.Date on input processor for the selected job. This is in the form 0cyydddF                                    |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |            |     |            |                                                                                                                 |
| <p>-----<br/> SSS2SYS and SSS2MBR not available if job came from net or was reloaded.<br/> -----</p>                                                                                                                                                                                                                                                                                                                                                                                                       |       |            |     |            |                                                                                                                 |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |            |     |            |                                                                                                                 |
| 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (3E8) | CHARACTER  | 8   | SSS2SYS    | O.System name of the MVS image where the job output was created                                                 |
| 1008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (3F0) | CHARACTER  | 4   | SSS2MBR    | O.Member name of the JES2 image where the job output was created                                                |
| 1012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (3F4) | ADDRESS    | 4   | SSS2NJEJ   | O.Address of NJE job header. This field will be non-zero if the job header is available and SSS2NJEH flag is on |
| 1016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (3F8) | CHARACTER  | 8   | SSS2NACT   | O.Net account (from NETACCT)                                                                                    |
| 1024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (400) | CHARACTER  | 8   | SSS2USID   | O.JMR User Id                                                                                                   |
| 1032                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (408) | SIGNED     | 4   | (8)        | Reserved for future use and must be zero.                                                                       |
| 1032                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (408) | X'21C'     | 0   | SSS2OUTC   | "SSS2OUTP,*-SSS2OUTP,C'X'" All output fields                                                                    |
| 1032                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (408) | X'428'     | 0   | SSS2SIZE   | **-"SSS2" This is minimal size of SSS2                                                                          |
| 1032                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (408) | X'428'     | 0   | SSS21SIZ   | **-"SSS2" Minimum length of version 1 SSS2                                                                      |

## SSS2 Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value | Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|----------|---------------|--------------|
| SSS2     | 0             |              | SSS2FLSC | 361           | 0            |
| SSS2ACCT | 3CC           |              | SSS2FLSH | 168           | 40404040     |
| SSS2AGE  | 170           | 0            | SSS2FORC | C0            | C0           |
| SSS2APL1 | 10            | 0            | SSS2FORM | C0            | 40404040     |
| SSS2APPL | 8             | 40404040     | SSS2FORR | 282           | 40404040     |
| SSS2BDIS | 0             | 28           | SSS2FSWB | 3E            | 60           |
| SSS2BRST | 2E6           | 2            | SSS2FSWT | 3E            | 20           |
| SSS2BTOK | 228           |              | SSS2GNVA | 2E6           | 80           |
| SSS2BULK | 24            | 3            | SSS2ICLS | 0             | 24           |
| SSS2BYCT | 2F4           | 0            | SSS2IDST | 0             | 14           |
| SSS2CDS  | 368           | 0            | SSS2INPC | 198           | 28           |
| SSS2CHAC | 154           | 154          | SSS2INPT | 28            |              |
| SSS2CHAR | 154           | 40404040     | SSS2INVA | 0             | 8            |
| SSS2CHKP | 1BC           | 4            | SSS2IP   | 2E6           | 4            |
| SSS2CHR1 | 32C           | 40404040     | SSS2IVER | 2             | 1            |
| SSS2CHR2 | 330           | 40404040     | SSS2JBIH | 52            | 40404040     |
| SSS2CHR3 | 334           | 40404040     | SSS2JBIL | 4A            | 40404040     |
| SSS2CHR4 | 338           | 40404040     | SSS2JBIR | 240           | 40404040     |
| SSS2CLAR | 2D4           | 40           | SSS2JDVT | 258           | 40404040     |
| SSS2CLAS | 134           | 40           | SSS2JEST | 21C           | 0            |
| SSS2CLFT | 1EA           | 0            | SSS2JOBN | 42            | 40404040     |
| SSS2CLON | 0             | 2C           | SSS2JOBK | 238           | 40404040     |
| SSS2CLSL | 110           | 40404040     | SSS2LEN  | 0             | 428          |
| SSS2COPY | 22C           | 0            | SSS2LERR | 0             | 20           |
| SSS2COUN | 24            | 2            | SSS2LINC | 363           | 0            |
| SSS2CPDS | 2E9           | 80           | SSS2LMAX | 140           | 7FFFFFFF     |
| SSS2CPYG | 230           | 0            | SSS2LMIN | 13C           | 0            |
| SSS2CREA | 5A            | 40404040     | SSS2LNCT | 2EC           | 0            |
| SSS2CRER | 250           | 40404040     | SSS2MBR  | 3F0           | 40404040     |
| SSS2CTKN | 18C           |              | SSS2MLRL | 2DC           | 0            |
| SSS2CTRL | 3E            | 80           | SSS2MOD  | 164           | 40404040     |
| SSS2CVER | 2             | 2            | SSS2MODT | 35C           | 0            |
| SSS2DATE | 3E4           | C            | SSS2MSC1 | 3E            | 0            |
| SSS2DCLS | 1C0           | 40           | SSS2NACT | 3F8           | 40404040     |
| SSS2DDES | 1D8           | 40404040     | SSS2NCHR | 2E7           | 80           |
| SSS2DDND | 310           | 40404040     | SSS2NIPA | 2E7           | 4            |
| SSS2DELC | 34            | 40           | SSS2NJED | 36C           |              |
| SSS2DESR | 268           | 40404040     | SSS2NJEH | 3E            | 10           |
| SSS2DEST | 82            | 40404040     | SSS2NJEJ | 3F4           |              |
| SSS2DES2 | A6            | 40404040     | SSS2NMOD | 2E7           | 10           |
| SSS2DFOR | 1C8           | 40404040     | SSS2NNHD | 2E7           | 20           |
| SSS2DHLA | 1BC           | 10           | SSS2NOTN | 3BC           | 40404040     |
| SSS2DISC | 1EC           | 1BC          | SSS2NOTU | 3C4           | 40404040     |
| SSS2DISP | 1BC           |              | SSS2NPRI | 2E7           | 8            |
| SSS2DKPE | 1BC           | 80           | SSS2NVOL | 2E7           | 40           |
| SSS2DNWR | 1BC           | 2            | SSS2ODST | 190           | 40404040     |
| SSS2DPGM | 1D0           | 40404040     | SSS2OGNM | 33C           | 40404040     |
| SSS2DRLS | 1BC           | 8            | SSS2OJBI | 248           | 40404040     |
| SSS2DSC  | 2E6           | 30           | SSS2OPTJ | 2E6           | 1            |
| SSS2DSCL | 2E6           | 40           | SSS2ORG  | 3D8           | 40404040     |
| SSS2DSF  | 2E6           | 20           | SSS2OUTC | 408           | 21C          |
| SSS2DSH  | 2E9           | 20           | SSS2OUTP | 21C           |              |
| SSS2DSID | 2DE           | 40404040     | SSS2PGCT | 2F0           | 0            |
| SSS2DSL  | 2E6           | 8            | SSS2PGMN | B8            | 40404040     |
| SSS2DSN  | 29A           | 40404040     | SSS2PGMR | 27A           | 40404040     |
| SSS2DSP1 | 1BC           | 0            | SSS2PMAX | 148           | 7FFFFFFF     |
| SSS2DSTR | 378           |              | SSS2PMIN | 144           | 0            |
| SSS2DUPJ | 0             | 10           | SSS2PNAM | 3A0           | 40404040     |
| SSS2ECBP | 28            |              | SSS2PRCD | 300           | 40404040     |
| SSS2EODS | 0             | 4            | SSS2PRIO | 362           | 0            |
| SSS2EYE  | 4             | E2E2E2F2     | SSS2PRIV | 324           | 0            |
| SSS2FCB  | 14C           | 40404040     | SSS2PRMC | 62            | 62           |
| SSS2FCBR | 370           | 40404040     | SSS2PRMO | 62            | 40404040     |

## SSS2 Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| SSS2PRMR | 260        | 40404040  | SSS2SCHR | 3A         | 1         |
| SSS2PUGE | 24         | 1         | SSS2SCLS | 37         | 10        |
| SSS2RALO | 3          | C         | SSS2SCPN | 3B         | 80        |
| SSS2RBA  | 2C         | 0         | SSS2SCRE | 38         | 20        |
| SSS2RBRO | 3          | 68        | SSS2SCTK | 3B         | 40        |
| SSS2RCCT | 2FC        | 0         | SSS2SDST | 37         | 8         |
| SSS2RCHR | 3          | 44        | SSS2SDUP | 37         | 6         |
| SSS2RCLS | 3          | 38        | SSS2SDU2 | 37         | 2         |
| SSS2RCRE | 3          | 18        | SSS2SECT | 16C        |           |
| SSS2RCTK | 3          | 64        | SSS2SEGM | 2C8        | 0         |
| SSS2RDCL | 3          | B8        | SSS2SEL1 | 37         | 0         |
| SSS2RDDS | 3          | C4        | SSS2SEL2 | 38         | 0         |
| SSS2RDES | 3          | 24        | SSS2SEL3 | 39         | 0         |
| SSS2RDE2 | 3          | 58        | SSS2SEL4 | 3A         | 0         |
| SSS2RDFR | 3          | BC        | SSS2SEL5 | 3B         | 0         |
| SSS2RDHR | 3          | C8        | SSS2SETC | 34         | 80        |
| SSS2RDPG | 3          | C0        | SSS2SFCB | 38         | 2         |
| SSS2RDUP | 3          | 10        | SSS2SFLS | 3A         | 40        |
| SSS2REAS | 3          |           | SSS2SFRM | 38         | 40        |
| SSS2RECJ | 3          | 6C        | SSS2SHLD | 37         | 80        |
| SSS2REIP | 3          | 8         | SSS2SHOL | 37         | C0        |
| SSS2RENI | 3          | 4         | SSS2SIPA | 38         | 8         |
| SSS2RENM | 3          | F0        | SSS2SIPN | 38         | 4         |
| SSS2RENS | 3          | F4        | SSS2SIZE | 408        | 428       |
| SSS2RET1 | 2E6        | 0         | SSS2SJBI | 37         | 1         |
| SSS2RET2 | 2E7        | 0         | SSS2SJBN | 37         | 4         |
| SSS2RET3 | 2E8        | 0         | SSS2SJOB | 39         | 20        |
| SSS2RET4 | 2E9        | 0         | SSS2SLIN | 3A         | 10        |
| SSS2RET5 | 2EA        | 0         | SSS2SMOD | 3A         | 80        |
| SSS2REYE | 3          | 60        | SSS2SODS | 3B         | 10        |
| SSS2RFCB | 3          | 3C        | SSS2SPAG | 3A         | 8         |
| SSS2RFL  | 3          | 4C        | SSS2SPGM | 38         | 80        |
| SSS2RFLS | 35D        | 40404040  | SSS2SPRI | 3A         | 4         |
| SSS2RFRM | 3          | 2C        | SSS2SPRM | 38         | 10        |
| SSS2RHLD | 1BC        | 40        | SSS2SPUN | 2E9        | 40        |
| SSS2RHLV | 2EA        | 80        | SSS2SSTC | 39         | 80        |
| SSS2RHOL | 2EA        | C0        | SSS2STPD | 308        | 40404040  |
| SSS2RJBI | 3          | 14        | SSS2STSU | 39         | 40        |
| SSS2RJNM | 3          | 28        | SSS2STYP | 39         | FF        |
| SSS2RJOB | 2E8        | 20        | SSS2SUCS | 38         | 1         |
| SSS2RLEN | 3          | 1C        | SSS2SVOL | 3A         | 2         |
| SSS2RLPG | 3          | 54        | SSS2SWBT | 318        | 0         |
| SSS2RLPM | 3          | 50        | SSS2SWTR | 37         | 20        |
| SSS2RLSE | 34         | 10        | SSS2SWTU | 320        |           |
| SSS2RMO  | 3          | 48        | SSS2SXWH | 37         | 40        |
| SSS2RMOD | 358        | 40404040  | SSS2SYS  | 3E8        | 40404040  |
| SSS2RNPR | 1BC        | 20        | SSS2TIME | 3E0        | 0         |
| SSS2RNPT | 1BC        | 1         | SSS2TJID | 292        | 40404040  |
| SSS2RODS | 3          | 70        | SSS2TJN  | 28A        | 40404040  |
| SSS2ROOM | 3B4        | 40404040  | SSS2TKNM | 0          | 1C        |
| SSS2ROUT | 34         | 20        | SSS2TOD  | 364        | 0         |
| SSS2RPGM | 3          | 30        | SSS2TYPE | 24         | 1         |
| SSS2RPRM | 3          | 34        | SSS2UCS  | 150        | 40404040  |
| SSS2RSTC | 2E8        | 80        | SSS2UCSR | 374        | 40404040  |
| SSS2RTOK | 0          | 0         | SSS2UFLG | 34         | 0         |
| SSS2RTSU | 2E8        | 40        | SSS2UNAV | 0          | C         |
| SSS2RTYP | 3          | 20        | SSS2USID | 400        | 40404040  |
| SSS2RUCS | 3          | 40        | SSS2VCTP | 2          | 2         |
| SSS2RVOL | 3          | 5C        | SSS2VER  | 2          | 2         |
| SSS2RWTR | 2EA        | 20        | SSS2VOL  | 174        | 40404040  |
| SSS2RXWH | 2EA        | 40        | SSS2VOLC | 174        | 174       |
| SSS2SAGE | 3A         | 20        | SSS2WERR | 2CC        | 4         |
| SSS2SAPC | 39         | 10        | SSS2WOK  | 2CC        | 0         |
| SSS2SAWT | 37         | E0        | SSS2WRSN | 2D0        | 0         |
| SSS2SBRO | 3B         | 20        | SSS2WRTN | 2CC        | 0         |

| <b>Name</b> | <b>Hex<br/>Offset</b> | <b>Hex<br/>Value</b> |
|-------------|-----------------------|----------------------|
| SSS2XEQ     | 3D0                   | 40404040             |
| SSS21SIZ    | 408                   | 428                  |





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**SSTA Programming Interface information**

Programming Interface information

**SSTA**

End of Programming Interface information

## SSTA Heading Information

**Common Name:** Tape Allocation Subsystem Interface Mapping  
**Macro ID:** IEFSSSTA  
**DSECT Name:** SSTA - SSTA Header SSTADDA - DD array entry SSTADRA - Device request array entry SSTAEDA - Eligible device array entry  
**Owning Component:** Allocation (SC1B4)  
**Eye-Catcher ID:** SSTA  
Offset: 0  
Length: 4

**Storage Attributes:** Main Storage: No  
Virtual Storage: Yes  
Auxiliary Storage: Yes  
Subpool: 230  
Key: 1  
Data Space: No  
Residency: Any

**Size:** 52 decimal for SSTA Header  
32 decimal for each DD array entry  
(number of entries is in SSTANDDS)  
20 decimal for each device request array entry  
(number of entries is in SSTANDRA)  
12 decimal for each eligible device array entry  
(number of entries is in SSTANEDA)

**Created by:** IEFAB483  
**Pointed to by:** Upon entry to the Tape Allocation Subsystem general purpose register 1 points to the SSOB. The SSOBINDV field points to the SSTA.

**Serialization:** ENQ -  
Major Name: SYSIEFSD  
Minor Name: Q4  
Scope : SYSTEM  
Mode : Shared  
Minor Name: CHNGDEVS  
Scope : SYSTEM  
Mode : Shared  
Minor Name: DDRTPUR  
Scope : SYSTEM  
Mode : Shared  
Minor Name: DDRDA (if DA requests)  
Scope : SYSTEM  
Mode : Shared  
LOCKS -  
Allocation group locks held  
Coupling Facility generic locks held

**Function:**

Provides data shared by Allocation and the Tape Allocation Subsystem in order to build the information needed to solve a tape allocation request. The Tape Allocation Subsystem can influence the allocation selection by adding new criteria to consider when the allocation algorithm solves the requests.

To do this, the subsystem must know the relative importance of each of the criteria that IBM considers as well as what criteria is applied to each request/device combination.

The relative importance that IBM considers is kept in the SSTAIBMM mask. Each bit is defined as a specific criteria and when the bit is on the criteria is being applied to that request/device combination.

The table below gives the relative importance of each of the subsystem criteria as related to the IBM criteria (highest to lowest criteria)

| Order | IBM                                           | Subsystem |
|-------|-----------------------------------------------|-----------|
| ----- | -----                                         | -----     |
| 1     |                                               | SSTAINEL  |
| 2     | SSTADMND                                      |           |
| 3     |                                               | SSTAUS01  |
| 4     |                                               | SSTAUS02  |
| 5     | SSTAONUN                                      |           |
| 6     |                                               | SSTAUS03  |
| 7     |                                               | SSTAUS04  |
| 8     | SSTANAFH                                      |           |
| 9     |                                               | SSTAUS05  |
| 10    |                                               | SSTAUS06  |
| 11    | SSTASPCM                                      |           |
| 12    |                                               | SSTAUS07  |
| 13    |                                               | SSTAUS08  |
| 14    | (Generic device type, not specified by a bit) |           |
| 15    |                                               | SSTAUS09  |

## Heading Information

|    |          |          |
|----|----------|----------|
| 16 |          | SSTAUS10 |
| 17 | SSTAACL1 |          |
| 18 |          | SSTAUS11 |
| 19 |          | SSTAUS12 |
| 20 | SSTAACL2 |          |
| 21 |          | SSTAUS13 |
| 22 |          | SSTAUS14 |
| 23 | SSTAACL3 |          |
| 24 |          | SSTAUS15 |
| 25 |          | SSTAUS16 |
| 26 | SSTAVOLM |          |
| 27 |          | SSTAUS17 |
| 28 |          | SSTAUS18 |
| 29 | SSTANVOL |          |
| 30 |          | SSTAUS19 |
| 31 |          | SSTAUS20 |
| 32 | SSTAWVOL |          |
| 33 |          | SSTAUS21 |
| 34 |          | SSTAUS22 |
| 35 | SSTAAVOL |          |
| 36 |          | SSTAUS23 |
| 37 |          | SSTAUS24 |
| 38 | SSTANAS  |          |
| 39 |          | SSTAUS25 |
| 40 |          | SSTAUS26 |

If the subsystem wants its own criteria considered more important than a specific IBM criteria then it just sets the bit in the User mask that is higher in priority for the request/device combination that the subsystem wishes the criteria to be applied to.

There are instances where bits can have multiple meanings in the IBM criteria. An example would be the SSTAVOLM bit. If the request is for a specific tape volume the bit means one thing. If the request is for a nonspecific tape volume the bit means something different. In all cases where there are multiple bit meanings there is no possibility of overlapping criteria. The actual meanings as applied to a specific entry is determined by the device request array entry for which this is an eligible device array entry. The SSTAPRV and SSTASPEC bits will indicate whether the request is a specific, private/nonspecific, or scratch request.

## SSTA Map

| Offsets |      |            |     |            |                                                                                                                                         |
|---------|------|------------|-----|------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                             |
| 0       | (0)  | STRUCTURE  | 0   | SSTA       | Tape Allocation SSI parameters                                                                                                          |
| 0       | (0)  | CHARACTER  | 4   | SSTAID     | Identifier 'SSTA'                                                                                                                       |
| 4       | (4)  | BITSTRING  | 1   | SSTAVERS   | SSTA version.                                                                                                                           |
| 5       | (5)  | BITSTRING  | 1   | SSTAFLGS   | SSI call information flags.                                                                                                             |
|         |      | 1... ....  |     | SSTAFCAL   | "X'80" First call for this job step or dynamic allocation request                                                                       |
|         |      | .1.. ....  |     | SSTARECV   | "X'40" This call from Recovery Allocation processing                                                                                    |
|         |      | ..1. ....  |     | SSTATRTY   | "X'20" This call from Tape Allocation retry processing                                                                                  |
|         |      | ...1 ....  |     | SSTAARTY   | "X'10" This call from Common Allocation retry processing                                                                                |
| 6       | (6)  | CHARACTER  | 2   |            | reserved                                                                                                                                |
| 8       | (8)  | CHARACTER  | 8   | SSTASNAM   | System name                                                                                                                             |
| 16      | (10) | CHARACTER  | 8   | SSTAJNAM   | Job name                                                                                                                                |
| 24      | (18) | CHARACTER  | 16  | SSTASTNM   | 8-byte Job step name followed by 8 reserved bytes or 8-byte Procedure name followed by 8-byte Job step name (See TIOCTSTEP in IEFTIOT1) |
| 40      | (28) | BITSTRING  | 4   | SSTASTPN   | Step number                                                                                                                             |
| 44      | (2C) | BITSTRING  | 4   | SSTANDDS   | Number of DD's                                                                                                                          |
| 48      | (30) | ADDRESS    | 4   | SSTADDAP   | Pointer to the first DD array entry for this job/step                                                                                   |
| 48      | (30) | X'34'      | 0   | SSTAHDRL   | "*-SSTA" Length of the SSTA Header.                                                                                                     |

| Offsets |      |            |     |            |                                                                                                                          |
|---------|------|------------|-----|------------|--------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                              |
| 0       | (0)  | STRUCTURE  | 0   | SSTADDA    | DD array entry                                                                                                           |
| 0       | (0)  | CHARACTER  | 8   | SSTADDN    | DD name                                                                                                                  |
| 8       | (8)  | ADDRESS    | 4   | SSTAJFCP   | Pointer to the JFCB for this DD array entry                                                                              |
| 12      | (C)  | BITSTRING  | 4   | SSTACPOS   | Concatenation position                                                                                                   |
| 16      | (10) | BITSTRING  | 1   | SSTADDF1   | DD level information byte 1                                                                                              |
|         |      | 1... ....  |     | SSTANNEW   | "X'80" DISP=NEW indicator                                                                                                |
|         |      | .1.. ....  |     | SSTAMOD    | "X'40" DISP=MOD indicator                                                                                                |
|         |      | ..1. ....  |     | SSTAOLD    | "X'20" DISP=OLD indicator                                                                                                |
|         |      | ...1 ....  |     | SSTAGDGS   | "X'10" GDG single request                                                                                                |
|         |      | .... 1..   |     | SSTAGALL   | "X'08" Part of GDG all request                                                                                           |
|         |      | .... .1..  |     | SSTAGDGA   | "X'04" Generated DD                                                                                                      |
|         |      | .... ..1.  |     | SSTAVLAF   | "X'02" Volume affinity indicator                                                                                         |
|         |      | .... ...1  |     | SSTAVAFF   | "X'01" Intra-step volume affinity                                                                                        |
| 17      | (11) | BITSTRING  | 1   | SSTADDF2   | DD level information byte 2                                                                                              |
|         |      | 1... ....  |     | SSTAUNAF   | "X'80" Unit affinity indicator                                                                                           |
|         |      | .1.. ....  |     | SSTAUARM   | "X'40" Unit affinity has been removed, but this condition is not permanent (i.e. the SIOT still indicates unit affinity) |
| 18      | (12) | CHARACTER  | 2   |            | reserved                                                                                                                 |
| 20      | (14) | BITSTRING  | 4   | SSTANDRA   | Number of device request arrays                                                                                          |
| 24      | (18) | ADDRESS    | 4   | SSTADRAP   | Pointer to the first device request array entry for this DD                                                              |
| 28      | (1C) | ADDRESS    | 4   | SSTADDAN   | Pointer to the next DD array entry                                                                                       |
| 28      | (1C) | X'20'      | 0   | SSTADDAL   | "*-SSTADDA" Length of one (1) DD Array entry.                                                                            |

## SSTA Map

| Offsets |      |            |     |            |                                                                         |
|---------|------|------------|-----|------------|-------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                             |
| 0       | (0)  | STRUCTURE  | 0   | SSTADRA    | Device request array entry                                              |
| 0       | (0)  | CHARACTER  | 6   | SSTAVOLI   | Volume serial number                                                    |
| 6       | (6)  | BITSTRING  | 2   | SSTANDEV   | Number of devices eligible                                              |
| 8       | (8)  | BITSTRING  | 1   | SSTAREQT   | Device request information flags                                        |
|         |      | 1... ....  |     | SSTAPRV    | "X'80" Private request                                                  |
|         |      | .1.. ....  |     | SSTASPEC   | "X'40" Specific volume needed                                           |
|         |      | ..1. ....  |     | SSTADEFR   | "X'20" Volume mounting deferred                                         |
|         |      | ...1 ....  |     | SSTAALOC   | "X'10" Entry already allocated                                          |
|         |      | .... 1...  |     | SSTASKIP   | "X'08" This entry being skipped                                         |
| 9       | (9)  | BITSTRING  | 1   | SSTAUREQ   | User supplied request level overrides                                   |
|         |      | 1... ....  |     | SSTAUDFR   | "X'80" Force request to defer mounting.                                 |
|         |      | .1.. ....  |     | SSTAUPRF   | "X'40" Indicates to use SSTAPREF in place of random clumping avoidance. |
| 10      | (A)  | BITSTRING  | 2   | SSTAVUID   | Volume unit id for affinity                                             |
| 12      | (C)  | ADDRESS    | 4   | SSTADEVP   | Pointer to the first eligible device array entry for this request       |
| 16      | (10) | ADDRESS    | 4   | SSTADRAN   | Pointer to the next device request array entry for this DD              |
| 16      | (10) | X'14'      | 0   | SSTADRAL   | "*-SSTADRA" Length of one (1) Device Request Array entry.               |

| Offsets |     |            |     |               |                                                                                                                                              |
|---------|-----|------------|-----|---------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim)    | Description                                                                                                                                  |
| 0       | (0) | STRUCTURE  | 0   | SSTAEDA       | Eligible device array                                                                                                                        |
| 0       | (0) | CHARACTER  | 4   | SSTADNUM      | Device number in EBCDIC                                                                                                                      |
| 4       | (4) | BITSTRING  | 3   | SSTAIBMM (0)  | IBM applied mask                                                                                                                             |
| 4       | (4) | BITSTRING  | 1   | SSTAIBM1      | First byte of the IBM mask                                                                                                                   |
|         |     | 1... ....  |     | SSTADSK       | "X'80" This device skipped for request                                                                                                       |
|         |     | .1.. ....  |     | SSTADMND      | "X'40" This device demanded by this request                                                                                                  |
|         |     | ..1. ....  |     | SSTAONUN      | "X'20" Online/Unallocated device                                                                                                             |
|         |     | ...1 ....  |     | SSTANAFH      | "X'10" Not assigned to foreign host                                                                                                          |
|         |     | .... 1...  |     | SSTASPCM      | "X'08" Volume mounted is one needed for this request                                                                                         |
|         |     | .... .1..  |     | SSTAACL1      | "X'04" Either no ACL is installed and this is a specific request or the ACL is active and this is a nonspecific request (public or private). |
|         |     | .... ..1.  |     | SSTAACL2      | "X'02" The installed ACL is inactive.                                                                                                        |
|         |     | .... ...1  |     | SSTAACL3      | "X'01" Either the ACL is active and this is a specific request or no ACL is installed and this is a nonspecific request (public or private). |
| 5       | (5) | BITSTRING  | 1   | SSTAIBM2      | Second byte of the IBM mask.                                                                                                                 |
|         |     | 1... ....  |     | SSTAVOLM      | "X'80" Either the last volume mounted is needed OR the volume mounted is Public, was not PASSEd or RETAINed, and this is a Scratch Request.  |
|         |     | .1.. ....  |     | SSTANVOL      | "X'40" No volume is mounted and the last volume mounted is not needed.                                                                       |
|         |     | ..1. ....  |     | SSTAWVOL      | "X'20" The wrong volume is mounted for a specific request but the last volume mounted matches.                                               |
|         |     | ...1 ....  |     | SSTAAVOL      | "X'10" Either the wrong volume is mounted and the last one does not match, or any volume is mounted and this is a private request.           |
|         |     | .... 1...  |     | SSTANAS       | "X'08" This device is not automatically switchable                                                                                           |
| 6       | (6) | BITSTRING  | 1   | SSTAIBM3      | Third byte of the IBM mask (currently reserved)                                                                                              |
| 7       | (7) | BITSTRING  | 1   | SSTAPREF      | Optional value to use as a replacement for random clumping avoidance.                                                                        |
| 8       | (8) | BITSTRING  | 4   | SSTAUSRMM (0) | User applied mask                                                                                                                            |
| 8       | (8) | BITSTRING  | 1   | SSTAUSE1      | First byte of the User mask                                                                                                                  |
|         |     | 1... ....  |     | SSTAINEL      | "X'80" Mark device ineligible                                                                                                                |
|         |     | .1.. ....  |     | SSTAUS01      | "X'40" User factor 1 should be assigned                                                                                                      |
|         |     | ..1. ....  |     | SSTAUS02      | "X'20" User factor 2 should be assigned                                                                                                      |
|         |     | ...1 ....  |     | SSTAUS03      | "X'10" User factor 3 should be assigned                                                                                                      |
|         |     | .... 1...  |     | SSTAUS04      | "X'08" User factor 4 should be assigned                                                                                                      |
|         |     | .... .1..  |     | SSTAUS05      | "X'04" User factor 5 should be assigned                                                                                                      |
|         |     | .... ..1.  |     | SSTAUS06      | "X'02" User factor 6 should be assigned                                                                                                      |
|         |     | .... ...1  |     | SSTAUS07      | "X'01" User factor 7 should be assigned                                                                                                      |
| 9       | (9) | BITSTRING  | 1   | SSTAUSE2      | Second byte of the User mask                                                                                                                 |

| Offsets |     |            |     |            |                                                           |
|---------|-----|------------|-----|------------|-----------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                               |
|         |     | 1... ....  |     | SSTAUS08   | "X'80" User factor 8 should be assigned                   |
|         |     | .1.. ....  |     | SSTAUS09   | "X'40" User factor 9 should be assigned                   |
|         |     | ..1. ....  |     | SSTAUS10   | "X'20" User factor 10 should be assigned                  |
|         |     | ...1 ....  |     | SSTAUS11   | "X'10" User factor 11 should be assigned                  |
|         |     | .... 1..   |     | SSTAUS12   | "X'08" User factor 12 should be assigned                  |
|         |     | .... .1..  |     | SSTAUS13   | "X'04" User factor 13 should be assigned                  |
|         |     | .... ..1.  |     | SSTAUS14   | "X'02" User factor 14 should be assigned                  |
|         |     | .... ...1  |     | SSTAUS15   | "X'01" User factor 15 should be assigned                  |
| 10      | (A) | BITSTRING  | 1   | SSTAUSE3   | Third byte of the User mask                               |
|         |     | 1... ....  |     | SSTAUS16   | "X'80" User factor 16 should be assigned                  |
|         |     | .1.. ....  |     | SSTAUS17   | "X'40" User factor 17 should be assigned                  |
|         |     | ..1. ....  |     | SSTAUS18   | "X'20" User factor 18 should be assigned                  |
|         |     | ...1 ....  |     | SSTAUS19   | "X'10" User factor 19 should be assigned                  |
|         |     | .... 1..   |     | SSTAUS20   | "X'08" User factor 20 should be assigned                  |
|         |     | .... .1..  |     | SSTAUS21   | "X'04" User factor 21 should be assigned                  |
|         |     | .... ..1.  |     | SSTAUS22   | "X'02" User factor 22 should be assigned                  |
|         |     | .... ...1  |     | SSTAUS23   | "X'01" User factor 23 should be assigned                  |
| 11      | (B) | BITSTRING  | 1   | SSTAUSE4   | Fourth byte of the User mask                              |
|         |     | 1... ....  |     | SSTAUS24   | "X'80" User factor 24 should be assigned                  |
|         |     | .1.. ....  |     | SSTAUS25   | "X'40" User factor 25 should be assigned                  |
|         |     | ..1. ....  |     | SSTAUS26   | "X'20" User factor 26 should be assigned                  |
| 11      | (B) | X'C'       | 0   | SSTAEDAL   | **SSTAEDA" Length of one (1) Eligible Device Array entry. |

Comment

Constants

End of Comment

|    |     |           |   |          |                                   |
|----|-----|-----------|---|----------|-----------------------------------|
| 12 | (C) | CHARACTER | 4 | SSTACHAR | Eye catcher                       |
| 12 | (C) | X'3'      | 0 | SSTAVERC | "03" Current SSTA version number. |
| 12 | (C) | X'4E'     | 0 | SSOBTALC | "78" Function code                |

### SSTA Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| SSOBTALC | C          | 4E        | SSTAFCAL | 5          | 80        |
| SSTA     | 0          |           | SSTAFLGS | 5          |           |
| SSTAACL1 | 4          | 4         | SSTAGALL | 10         | 8         |
| SSTAACL2 | 4          | 2         | SSTAGDGA | 10         | 4         |
| SSTAACL3 | 4          | 1         | SSTAGDGS | 10         | 10        |
| SSTAALOC | 8          | 10        | SSTAHDR1 | 30         | 34        |
| SSTAARTY | 5          | 10        | SSTAIBMM | 4          |           |
| SSTAAVOL | 5          | 10        | SSTAIBM1 | 4          |           |
| SSTACHAR | C          | E2E2E3C1  | SSTAIBM2 | 5          |           |
| SSTACPOS | C          |           | SSTAIBM3 | 6          |           |
| SSTADDA  | 0          |           | SSTAID   | 0          |           |
| SSTADDAL | 1C         | 20        | SSTAINEL | 8          | 80        |
| SSTADDAN | 1C         |           | SSTAJFCP | 8          |           |
| SSTADDAP | 30         |           | SSTAJNAM | 10         |           |
| SSTADDF1 | 10         |           | SSTAMOD  | 10         | 40        |
| SSTADDF2 | 11         |           | SSTANAFH | 4          | 10        |
| SSTADDN  | 0          |           | SSTANAS  | 5          | 8         |
| SSTADFR  | 8          | 20        | SSTANDDS | 2C         |           |
| SSTADVP  | C          |           | SSTANDEV | 6          |           |
| SSTADMND | 4          | 40        | SSTANDRA | 14         |           |
| SSTADNUM | 0          |           | SSTANEW  | 10         | 80        |
| SSTADRA  | 0          |           | SSTANVOL | 5          | 40        |
| SSTADRAL | 10         | 14        | SSTAOLD  | 10         | 20        |
| SSTADRAN | 10         |           | SSTAONUN | 4          | 20        |
| SSTADRAP | 18         |           | SSTAPREF | 7          |           |
| SSTADSK  | 4          | 80        | SSTAPRV  | 8          | 80        |
| SSTAEDA  | 0          |           | SSTARECV | 5          | 40        |
| SSTAEDAL | B          | C         | SSTAREQT | 8          |           |

## SSTA Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| SSTASKIP | 8          | 8         |
| SSTASNAM | 8          |           |
| SSTASPCM | 4          | 8         |
| SSTASPEC | 8          | 40        |
| SSTASTNM | 18         |           |
| SSTASTPN | 28         |           |
| SSTATRTY | 5          | 20        |
| SSTAUARM | 11         | 40        |
| SSTAUDFR | 9          | 80        |
| SSTAUNAF | 11         | 80        |
| SSTAUPRF | 9          | 40        |
| SSTAUREQ | 9          |           |
| SSTAUSE1 | 8          |           |
| SSTAUSE2 | 9          |           |
| SSTAUSE3 | A          |           |
| SSTAUSE4 | B          |           |
| SSTAUSRM | 8          |           |
| SSTAUS01 | 8          | 40        |
| SSTAUS02 | 8          | 20        |
| SSTAUS03 | 8          | 10        |
| SSTAUS04 | 8          | 8         |
| SSTAUS05 | 8          | 4         |
| SSTAUS06 | 8          | 2         |
| SSTAUS07 | 8          | 1         |
| SSTAUS08 | 9          | 80        |
| SSTAUS09 | 9          | 40        |
| SSTAUS10 | 9          | 20        |
| SSTAUS11 | 9          | 10        |
| SSTAUS12 | 9          | 8         |
| SSTAUS13 | 9          | 4         |
| SSTAUS14 | 9          | 2         |
| SSTAUS15 | 9          | 1         |
| SSTAUS16 | A          | 80        |
| SSTAUS17 | A          | 40        |
| SSTAUS18 | A          | 20        |
| SSTAUS19 | A          | 10        |
| SSTAUS20 | A          | 8         |
| SSTAUS21 | A          | 4         |
| SSTAUS22 | A          | 2         |
| SSTAUS23 | A          | 1         |
| SSTAUS24 | B          | 80        |
| SSTAUS25 | B          | 40        |
| SSTAUS26 | B          | 20        |
| SSTAVAFF | 10         | 1         |
| SSTAVERC | C          | 3         |
| SSTAVERS | 4          |           |
| SSTAVLAF | 10         | 2         |
| SSTAVOLI | 0          |           |
| SSTAVOLM | 5          | 80        |
| SSTAVUID | A          |           |
| SSTAWVOL | 5          | 20        |



## SSUS Heading Information

**Common Name:** SSOB Extension for Remote Destination Validity Check  
**Macro ID:** IEFSSUS  
**DSECT Name:** SSUS  
**Owning Component:** Allocation (SC1B4)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: Determined by invoker  
 Key: Determined by invoker  
 Residency: Determined by invoker  
**Size:** 72 bytes  
**Created by:** Users of the Remote Userid Validity Check  
 Function  
**Pointed to by:** SSOBINDV field of the SSOB Data Area  
**Serialization:** None  
**Function:** Provides input to Subsystem Remote Destination  
 Validity Check

### SSUS Map

| Offsets |      |            |     |            |                                                                                  |
|---------|------|------------|-----|------------|----------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                      |
| 0       | (0)  | STRUCTURE  | 32  | SSUS       |                                                                                  |
| 0       | (0)  | CHARACTER  | 16  | SSUSV0     | Version 0 area                                                                   |
| 0       | (0)  | SIGNED     | 2   | SSUSLEN    | LENGH OF SSUS                                                                    |
| 2       | (2)  | BITSTRING  | 1   | SSUSFLG1   | FLAG BYTE                                                                        |
|         |      | 1... ....  |     | SSUS1NOD   | IF ON, THE NODE NAME IS TO BE RETURNED IN THE SSOB                               |
|         |      | .1.. ....  |     | SSUSCVXE   | DESTINATION CONVERSION EXTENSION EXISTS                                          |
|         |      | ..11 1111  |     | *          | RESERVED                                                                         |
| 3       | (3)  | UNSIGNED   | 1   | SSUSVER    | Version number                                                                   |
| 4       | (4)  | SIGNED     | 4   | *          | RESERVED                                                                         |
| 8       | (8)  | CHARACTER  | 8   | SSUSUSER   | REMOTE DEST TO BE VERIFIED                                                       |
| 16      | (10) | CHARACTER  | 16  | SSUSV1     | Version 1 additions                                                              |
| 16      | (10) | CHARACTER  | 8   | SSUSNODE   | NODE NAME RETURNED BY SSI                                                        |
| 24      | (18) | CHARACTER  | 8   | SSUSRMT    | EBCDIC NODE NAME ('RNNNNNNN'), IF ANY, ASSOCIATED WITH THE PASSED DESTID PEO2642 |
| 32      | (20) | CHARACTER  | 0   | *          | END OF EXTENSION                                                                 |

### SSUS Constants

| Len | Type    | Value | Name     | Description                               |
|-----|---------|-------|----------|-------------------------------------------|
| 2   | DECIMAL |       | SSOBUSER | REMOTE DESTINATION FUNCTION ID (SSOBFUNC) |

Comment

REMOTE DESTINATION VALIDITY CHECK RETURN CODES (SSOBRETN)

End of Comment

|   |         |   |          |                                                                  |
|---|---------|---|----------|------------------------------------------------------------------|
| 4 | DECIMAL | 0 | SSUSRTOK | VALID REQUEST                                                    |
| 4 | DECIMAL | 4 | SSUSNOUS | INVALID DESTINATION                                              |
| 4 | DECIMAL | 8 | SSUSINCP | SUBSYSTEM COULD NOT COMPLETE THE VALIDITY CHECK                  |
| 1 | DECIMAL | 1 | SSUSCVER | Current version number                                           |
| 1 | DECIMAL | 1 | SSUSNDRM | First version in which the SSUSNODE ans SSUSRMT fields are valid |

## SSUS Cross Reference

### SSUS Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| SSUS     | 0             |              |
| SSUSCVXE | 2             | 40           |
| SSUSFLG1 | 2             |              |
| SSUSLEN  | 0             |              |
| SSUSNODE | 10            |              |
| SSUSRMT  | 18            |              |
| SSUSUSER | 8             |              |
| SSUSVER  | 3             |              |
| SSUSV0   | 0             |              |
| SSUSV1   | 10            |              |
| SSUS1NOD | 2             | 80           |

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## SSVI Programming Interface information

Programming Interface information

SSVI

End of Programming Interface information

## SSVI Heading Information

**Common Name:** Subsystem Version Information SSOB Extension  
**Macro ID:** IEFSSVI  
**DSECT Name:** SSVI, SSVIVDAT  
**Owning Component:** Subsystem Interface - SSI (SC1B6)  
**Eye-Catcher ID:** SSVI  
 Offset: 4  
 Length: 4 bytes  
**Storage Attributes:** Subpool: Any  
 Key: Key of caller of SSI  
 Residency: Any  
**Size:** 48 decimal + system variable output  
 section + installation variable output  
 section  
 FREQUENCY = 1 per function code 54 SSI call  
**Created by:** The invoker of IEFSSREQ  
**Pointed to by:** SSOBINDV in the IEFSSOBH mapping macro  
**Serialization:** None  
**Function:** This mapping macro defines the parameters used for SSI function code 54, SubSystem Version Information. This function code is intended to be a mechanism to determine relatively static information about a subsystem.

## SSVI Map

| Offsets |     |            |     |            |                                                           |
|---------|-----|------------|-----|------------|-----------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                               |
| 0       | (0) | STRUCTURE  | 0   |            |                                                           |
| 0       | (0) | X'36'      | 0   | SSOBSSVI   | "54" Subsystem Version information function ID (SSOBFUNC) |
| 0       | (0) | X'E2E5C9'  | 0   | SSVICID    | "C'SSVI'" Macro constant id                               |
| 0       | (0) | X'1'       | 0   | SSVIVONE   | "1" Version one                                           |
| 0       | (0) | X'2'       | 0   | SSVIVTWO   | "2" Version two                                           |
| 0       | (0) | X'2'       | 0   | SSVICVER   | "SSVIVTWO" Latest version                                 |

Comment

Subsystem Version information Return codes (SSOBRETN)

End of Comment

|   |     |       |   |          |                                                                                            |
|---|-----|-------|---|----------|--------------------------------------------------------------------------------------------|
| 0 | (0) | X'0'  | 0 | SSVIOK   | "0" Information returned                                                                   |
| 0 | (0) | X'8'  | 0 | SSVINSTR | "8" Not enough storage to finish request Use SSVIRLEN to determine correct amount required |
| 0 | (0) | X'10' | 0 | SSVIPARM | "16" Invalid SSVI parameter list                                                           |
| 0 | (0) | X'18' | 0 | SSVIABLG | "24" Abend or logical error occurred in the service routine                                |

Comment

SSOB extension mapping - SSVI

End of Comment

|   |     |           |   |          |                                   |
|---|-----|-----------|---|----------|-----------------------------------|
| 0 | (0) | X'0'      | 0 | SSVI     | *** SSOB extension mapping - SSVI |
| 0 | (0) | X'0'      | 0 | SSVIHEAD | *** Header information            |
| 0 | (0) | SIGNED    | 2 | SSVILEN  | Length of entire area             |
| 2 | (2) | BITSTRING | 1 | SSVIVER  | Version of mapping for caller     |
| 3 | (3) | CHARACTER | 1 | SSVIRSV1 | Reserved                          |
| 4 | (4) | CHARACTER | 4 | SSVIID   | SSOB extension id - "SSVI"        |
| 4 | (4) | X'8'      | 0 | SSVIFDAT | *** Fixed data information        |

| Offsets |      |            |     |            |                                                                                                                             |
|---------|------|------------|-----|------------|-----------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                 |
| 8       | (8)  | SIGNED     | 2   | SSVIRLEN   | Return or required length. Set to amount of storage required to respond to the SSVI request when SSOBRETN is either 0 or 8. |
| 10      | (A)  | BITSTRING  | 1   | SSVIRVER   | Version of mapping for subsystem                                                                                            |
| 11      | (B)  | CHARACTER  | 1   | SSVIRSV2   | Reserved                                                                                                                    |
| 12      | (C)  | SIGNED     | 2   | SSVIFLEN   | Length of fixed section                                                                                                     |
| 14      | (E)  | SIGNED     | 2   | SSVIASID   | V2.Address Space ID associated with the subsystem, if any. Set to (X'FFFF') if A. S. Abended                                |
| 16      | (10) | CHARACTER  | 8   | SSVIVERS   | Version of product (e.g. 'SP4.3.0')                                                                                         |
| 24      | (18) | CHARACTER  | 8   | SSVIFMID   | FMID of product                                                                                                             |
| 32      | (20) | CHARACTER  | 8   | SSVICNAM   | Common name of subsystem                                                                                                    |
| 40      | (28) | SIGNED     | 4   | SSVIUDOF   | Offset to the installation section from the start of the SSVI                                                               |
| 44      | (2C) | SIGNED     | 4   | SSVISDOF   | Offset to the system section from the start of the SSVI                                                                     |
| 44      | (2C) | X'30'      | 0   | SSVIVER1   | *** End of version 1 fixed header mapping                                                                                   |

Comment

Product level and Service level are intended to be used as indicators of the relative level of the subsystem. These numbers have no inherent meaning other than determining whether the subsystem is at a particular level. The product level is guaranteed to increase by at least one for each release of the subsystem. The service level is guaranteed to start at zero for a new product level and to increase by at least one when significant maintenance is applied during the life of a particular release.

End of Comment

|    |      |           |    |          |                                               |
|----|------|-----------|----|----------|-----------------------------------------------|
| 48 | (30) | SIGNED    | 1  | SSVIPLVL | V2.zero or the product level                  |
| 49 | (31) | SIGNED    | 1  | SSVISLVL | V2.zero or the service level                  |
| 50 | (32) | BITSTRING | 14 |          | V2.Reserved for future use                    |
| 50 | (32) | X'40'     | 0  | SSVIVER2 | *** V2.End of version 2 fixed header mapping  |
| 50 | (32) | X'40'     | 0  | SSVIMSIZ | "SSVIVER2-SSVI" Minimum required input length |
| 50 | (32) | X'40'     | 0  | SSVIFSIZ | ** -SSVI" Length of SSVI fixed header section |

#### Offsets

| Dec | Hex | Type/Value | Len | Name (Dim)  | Description                   |
|-----|-----|------------|-----|-------------|-------------------------------|
| 0   | (0) | STRUCTURE  | 0   | SSVIDDAT    | Variable data section mapping |
| 0   | (0) | SIGNED     | 2   | SSVIVLEN    | Length of the variable data   |
| 2   | (2) | CHARACTER  | 1   | SSVIDAT (0) | Data area                     |

### SSVI Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| SSOBSSVI | 0          | 36        | SSVIOK   | 0          | 0         |
| SSVI     | 0          | 0         | SSVIPARM | 0          | 10        |
| SSVIABLG | 0          | 18        | SSVIPLVL | 30         |           |
| SSVIASID | E          |           | SSVIRLEN | 8          |           |
| SSVICID  | 0          | E2E5C9    | SSVIRSV1 | 3          |           |
| SSVICNAM | 20         |           | SSVIRSV2 | B          |           |
| SSVICVER | 0          | 2         | SSVIRVER | A          |           |
| SSVIDAT  | 2          |           | SSVISDOF | 2C         |           |
| SSVIFDAT | 4          | 8         | SSVISLVL | 31         |           |
| SSVIFLEN | C          |           | SSVIUDOF | 28         |           |
| SSVIFMID | 18         |           | SSVIDDAT | 0          |           |
| SSVIFSIZ | 32         | 40        | SSVIVER  | 2          |           |
| SSVIHEAD | 0          | 0         | SSVIVERS | 10         |           |
| SSVIID   | 4          |           | SSVIVER1 | 2C         | 30        |
| SSVILEN  | 0          |           | SSVIVER2 | 32         | 40        |
| SSVIMSIZ | 32         | 40        | SSVIVLEN | 0          |           |
| SSVINSTR | 0          | 8         | SSVIVONE | 0          | 1         |

## SSVI Cross Reference

| Name    | Hex<br>Offset | Hex<br>Value |
|---------|---------------|--------------|
| SSVITWO | 0             | 2            |

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## SSVS Programming Interface information

Programming Interface information

### SSVS

**ONLY** the following fields are part of the programming interface information:

- SSVSLEN
- SSVSNUM
- SSVSSCTP

End of Programming Interface information

## SSVS Heading Information

**Common Name:** Subsystem Verification Service  
**Macro ID:** IEFSSVS  
**DSECT Name:** None  
**Owning Component:** Subsystem Interface (SC1B6)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: Any  
 Key: Key of caller of SSI  
 Residency: Any  
**Size:** 8 (SSVSSIZS) or 20 (SSVSSIZE) bytes  
**Created by:** The invoker of IEFSSREQ  
**Pointed to by:** SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** Maps the SSOB extension for the Subsystem Verification function request (SSI function code 15 (SSOBVERS))

## SSVS Map

| Offsets                                        |      |            |     |            |                                                                                                                                                                                         |
|------------------------------------------------|------|------------|-----|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec                                            | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                             |
| 0                                              | (0)  | STRUCTURE  | 0   |            |                                                                                                                                                                                         |
| 0                                              | (0)  | X'F'       | 0   | SSOBVERS   | "15" FUNCTION ID (SSOBFUNC)                                                                                                                                                             |
| Comment                                        |      |            |     |            |                                                                                                                                                                                         |
| SUBSYSTEM VERIFICATION RETURN CODES (SSOBRETN) |      |            |     |            |                                                                                                                                                                                         |
| End of Comment                                 |      |            |     |            |                                                                                                                                                                                         |
| 0                                              | (0)  | X'0'       | 0   | SSVSSNAM   | "0" SSIB CONTAINS A SUBSYSTEM NAME, FIELD SSVSSCTP IS SET, AND (1) IF SSVSSTRT IS OFF, BIT SSVSUPSS IS SET OR (2) IF SSVSSTRT IS ON, THE SUBSYSTEM IS ACTIVE AND SUPPORTS JOB SELECTION |
| 0                                              | (0)  | X'4'       | 0   | SSVSJBNM   | "4" NAME IS NOT NAME OF A SUBSYSTEM                                                                                                                                                     |
| 0                                              | (0)  | X'8'       | 0   | SSVSNACT   | "8" SUBSYSTEM IS NOT ACTIVE (VALID ONLY IF SSVSSTRT IS ON). FIELDS SSVSSCTP AND SSVSNUM ARE SET.                                                                                        |
| 0                                              | (0)  | X'C'       | 0   | SSVSNSEL   | "12" SUBSYSTEM DOES NOT SUPPORT JOB SELECTION (VALID ONLY IF SSVSSTRT IS ON). FIELDS SSVSSCTP AND SSVSNUM ARE SET.                                                                      |
| 0                                              | (0)  | X'0'       | 0   | SSVSBGN    | ***                                                                                                                                                                                     |
| 0                                              | (0)  | ADDRESS    | 2   | SSVSLEN    | VS EXTENSION LENGTH                                                                                                                                                                     |
| 2                                              | (2)  | BITSTRING  | 1   | SSVSFLG1   | FLAG BYTE                                                                                                                                                                               |
|                                                |      | 1... ..    |     | SSVSUPSS   | "X'80" SET BY MASTER SUBSYSTEM TO INDICATE THAT THE SPECIFIED SUBSYSTEM REQUIRES THE USE OF THE PRIMARY SUBSYSTEM'S SERVICES (E.G. SYSOUT)                                              |
|                                                |      | .1.. ..    |     | SSVSSTRT   | "X'40" TEST NAME IN SSIBJID FOR ACTIVE SUBSYSTEM THAT SUPPORTS INTERNAL READER DATASETS                                                                                                 |
| 3                                              | (3)  | BITSTRING  | 1   | SSVSFLG2   | RESERVED FLAG BYTE                                                                                                                                                                      |
| 4                                              | (4)  | ADDRESS    | 4   | SSVSSCTP   | PTR TO SSCT OF THE SPECIFIED SUBSYSTEM-RETURNED BY THE MASTER SUBSYSTEM                                                                                                                 |
| 4                                              | (4)  | X'8'       | 0   | SSVSSIZS   | ** -SSVSBGN" SHORT FORM LENGTH                                                                                                                                                          |
| 4                                              | (4)  | X'8'       | 0   | SSVSADD    | *** ADD ON TO VS EXTENSION                                                                                                                                                              |
| 8                                              | (8)  | SIGNED     | 2   | SSVSNUM    | Subsystem's index for use with subsystem affinity service ON SSCVT CHAIN                                                                                                                |
| 10                                             | (A)  | SIGNED     | 2   | SSVSRES1   | RESERVED                                                                                                                                                                                |
| 12                                             | (C)  | SIGNED     | 4   | SSVSRES2   | RESERVED                                                                                                                                                                                |
| 16                                             | (10) | SIGNED     | 4   | SSVSRES3   | RESERVED                                                                                                                                                                                |
| 16                                             | (10) | X'14'      | 0   | SSVSSIZE   | ** -SSVSBGN" LONG FORM LENGTH                                                                                                                                                           |
| 16                                             | (10) | X'14'      | 0   | SSOBLN1A   | "SSOBHSIZ+SSVSSIZE" TOTAL SSOB LENGTH                                                                                                                                                   |



**SSVS Cross Reference**

| <b>Name</b> | <b>Hex<br/>Offset</b> | <b>Hex<br/>Value</b> |
|-------------|-----------------------|----------------------|
| SSOBLN1A    | 10                    | 14                   |
| SSOBVERS    | 0                     | F                    |
| SSVSADD     | 4                     | 8                    |
| SSVSBGN     | 0                     | 0                    |
| SSVSFLG1    | 2                     |                      |
| SSVSFLG2    | 3                     |                      |
| SSVSJBNM    | 0                     | 4                    |
| SSVSLEN     | 0                     |                      |
| SSVSNACT    | 0                     | 8                    |
| SSVSNSEL    | 0                     | C                    |
| SSVSNUM     | 8                     |                      |
| SSVSRES1    | A                     |                      |
| SSVSRES2    | C                     |                      |
| SSVSRES3    | 10                    |                      |
| SSVSSCTP    | 4                     |                      |
| SSVSSIZE    | 10                    | 14                   |
| SSVSSIZS    | 4                     | 8                    |
| SSVSSNAM    | 0                     | 0                    |
| SSVSSTRT    | 2                     | 40                   |
| SSVSUPSS    | 2                     | 80                   |



## SSVT Heading Information

**Common Name:** Subsystem Vector Table  
**Macro ID:** IEFJSSVT  
**DSECT Name:** SSVT  
**Owning Component:** Subsystem Interface (SC1B6)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Main Storage: No  
 Virtual Storage: Yes  
 Auxiliary Storage: Yes  
 Subpool: Determined by caller of IEFSSVT. Must reside in common storage.  
 Key: 0  
 Data Space: No  
 Residency: ANY  
**Size:** 260 bytes (decimal) plus 4 bytes for each function routine address slot reserved when the table is created. Maximum size 1284 bytes (decimal).  
**Created by:** Subsystem Interface  
**Pointed to by:** - SSCTSSVT field of the SSCVT data area  
**Serialization:** The SSVT should be accessed only through the services provided by the IEFSSI and IEFSSVT macros.  
**Function:** Indicates the SSI functions supported by the associated subsystem

### SSVT Map

| Offsets |     |            |     |            |                                                                    |
|---------|-----|------------|-----|------------|--------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                                        |
| 0       | (0) | STRUCTURE  | 0   | SSVT       |                                                                    |
| 0       | (0) | X'0'       | 0   | SSVTBEGN   | ***                                                                |
| 0       | (0) | SIGNED     | 2   | SSVTRSV1   | RESERVED                                                           |
| 2       | (2) | SIGNED     | 2   | SSVTFNUM   | Maximum number of function routines supported by this vector table |

Comment

256 BYTE FUNCTION MATRIX -

THE SSOB FUNCTION ID MINUS ONE IS USED AS AN OFFSET INTO THIS MATRIX.

MATRIX FUNCTION BYTE =0 : THE FUNCTION SPECIFIED IN THE SSOB IS NOT SUPPORTED BY THIS SUBSYSTEM.

MATRIX FUNCTION BYTE ≠0 : THE VALUE (FUNCTION BYTE-1) 4 IS ADDED TO THE ADDRESS OF SSVTFRTN TO OBTAIN THE ADDRESS OF THE WORD CONTAINING THE FUNCTION ROUTINE POINTER FOR THIS REQUEST.

End of Comment

|      |       |           |   |              |                                                                                                                                                                                       |
|------|-------|-----------|---|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4    | (4)   | BITSTRING | 1 | SSVTFCOD (0) | FUNCTION MATRIX                                                                                                                                                                       |
| 4    | (4)   | X'104'    | 0 | SSVTFSIZ     | **-SSVTBEGN" SSVT FIXED AREA SIZE                                                                                                                                                     |
| 260  | (104) | SIGNED    | 4 | SSVTFRTN     | SSVTFRTN IS THE FIRST WORD OF A VARIABLE LENGTH MATRIX CONTAINING FUNCTION ROUTINE POINTERS FOR FUNCTIONS SUPPORTED BY THIS SUBSYSTEM. THE MATRIX CAN BE A MAXIMUM OF 256 WORDS LONG. |
| 1284 | (504) | X'504'    | 0 | SSVTSIZE     | **"-SSVTBEGN" MAXIMUM SSVT SIZE                                                                                                                                                       |



## SSWA Heading Information

**Common Name:** Subsystem Scheduler Work Area  
**Macro ID:** IEFJSSWA  
**DSECT Name:** SSWA  
**Owning Component:** Initiator/terminator (SC1B6)  
**Subpool and Key:** SWA (Subpool 236 or 237) and key 1  
**Size:** Variable length  
**Created by:** IEFVDA, IEFDB414  
**Pointed to by:** SIOTSSWA field of the SIOT data area  
 SSAGSSWA field of the SSARB data area  
**Serialization:** None  
**Function:** Contains the data coded as part of a SUBSYS DD card or its dynamic allocation equivalent.

### SSWA Map

| Offsets |     |            |     |            |                                     |
|---------|-----|------------|-----|------------|-------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                         |
| 0       | (0) | STRUCTURE  | *   | SSWA       | SUBSYSTEM SCHEDULER WORK AREA       |
| 0       | (0) | CHARACTER  | 8   | SSWAHDR    | FIXED LENGTH HEADER                 |
| 0       | (0) | SIGNED     | 2   | SSWATYPE   | TYPE FIELD                          |
| 2       | (2) | CHARACTER  | 4   | SSWASSNM   | SUBSYSTEM NAME                      |
| 6       | (6) | SIGNED     | 2   | SSWAPRNO   | NO OF LEN-PARM PAIRS@G29AN2F        |
| 8       | (8) | CHARACTER  | *   | SSWAPREN   | FIRST LEN-PARM ENTRY@G29AN2F        |
| 8       | (8) | UNSIGNED   | 1   | SSWAPLEN   | LENGTH OF FIRST (OR ONLY) PARAMETER |
| 9       | (9) | CHARACTER  | *   | SSWAPVAL   | VALUE OF FIRST (OR ONLY) PARAMETER  |

| Offsets |     |            |     |            |                              |
|---------|-----|------------|-----|------------|------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                  |
| 0       | (0) | STRUCTURE  | *   | SSWAIFLD   | INDIVIDUAL LEN-PARM PAIR MAP |
| 0       | (0) | UNSIGNED   | 1   | SSWAILEN   | LEN OF PARM ITEM             |
| 1       | (1) | CHARACTER  | *   | SSWAIPRM   | VALUE OF PARM ITEM           |

### SSWA Constants

| Len                                                                                             | Type    | Value | Name     | Description         |
|-------------------------------------------------------------------------------------------------|---------|-------|----------|---------------------|
| Comment                                                                                         |         |       |          |                     |
| THE FOLLOWING DECLARE DEFINES THE VALUE OF THE TYPE FIELD(SSWATYPE) FOR A SYSTEM GENERATED SSWA |         |       |          |                     |
| End of Comment                                                                                  |         |       |          |                     |
| 2                                                                                               | DECIMAL | 1     | SSWASYST | SYSTEM CREATED SSWA |

## SSWA Cross Reference

### SSWA Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| SSWA     | 0             |              |
| SSWAHDR  | 0             |              |
| SSWAIFLD | 0             |              |
| SSWAILEN | 0             |              |
| SSWAIPRM | 1             |              |
| SSWAPLEN | 8             |              |
| SSWAPREN | 8             |              |
| SSWAPRNO | 6             |              |
| SSWAPVAL | 9             |              |
| SSWASSNM | 2             |              |
| SSWATYPE | 0             |              |

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# SSWT Programming Interface Information

Programming Interface Information

SSWT

End of Programming Interface Information

## SSWT Heading Information

**Common Name:** SSOB Extension for Write to Operator  
**Macro ID:** IEFSSWT  
**DSECT Name:** SSWT  
**Owning Component:** JES3 (SC1BA)  
**Subpool and Key:** User subpool and key  
**Size:** 20 bytes for SSOB plus 16 bytes for SSWT  
**Created by:** IEAVSWCH, IEAVVWTO, IEAVMWTO, IEEMB804  
**Pointed to by:** SSOBINDV field of the SSOB data area  
**Serialization:** None  
**Function:** Parameter list for the subsystem interface.

### SSWT Map

| Offsets                                   |     |            |     |            |                                                                                                                     |
|-------------------------------------------|-----|------------|-----|------------|---------------------------------------------------------------------------------------------------------------------|
| Dec                                       | Hex | Type/Value | Len | Name (Dim) | Description                                                                                                         |
| 0                                         | (0) | STRUCTURE  | 0   |            |                                                                                                                     |
| 0                                         | (0) | X'9'       | 0   | SSOBWTO    | "9" WTO FUNCTION ID (SSOBFUNC)                                                                                      |
| 0                                         | (0) | X'21'      | 0   | SSOBCONS   | "33" CONSOLE STATUS FUNCTION ID                                                                                     |
| 0                                         | (0) | X'22'      | 0   | SSOBWTL    | "34" WTL FUNCTION ID                                                                                                |
| Comment                                   |     |            |     |            |                                                                                                                     |
| WRITE TO OPERATOR RETURN CODES (SSOBRETN) |     |            |     |            |                                                                                                                     |
| End of Comment                            |     |            |     |            |                                                                                                                     |
| 0                                         | (0) | X'0'       | 0   | SSWTRTOK   | "0" FUNCTION 9: CONTINUE NORMAL WTO PROCESSING AND HARDCOPY THE MESSAGE FUNCTION 34: CONTINUE NORMAL WTO PROCESSING |
| 0                                         | (0) | X'4'       | 0   | SSWTNDSP   | "4" FUNCTION 9: DO NOT DISPLAY THE WTO, BUT MCS SHOULD HARDCOPY IT FUNCTION 34: BYPASS WTO PROCESSING               |
| 0                                         | (0) | X'8'       | 0   | SSWTOKNH   | "8" FUNCTION 9: DISPLAY THE WTO AND DO NOT HARDCOPY IT                                                              |
| 0                                         | (0) | X'C'       | 0   | SSWTNDNH   | "12" FUNCTION 9: DO NOT DISPLAY THE WTO AND DO NOT HARDCOPY IT                                                      |
| 0                                         | (0) | X'0'       | 0   | SSWTBGN    | ***                                                                                                                 |
| 0                                         | (0) | ADDRESS    | 2   | SSWTLEN    | WTO EXTENSION LENGTH                                                                                                |
| 2                                         | (2) | BITSTRING  | 1   | SSWTFLG1   | FIRST GENERAL FLAG AREA                                                                                             |
|                                           |     | 1... ..    |     | SSWTPSB1   | "X'80" FOR USE BY THE PRIMARY SUBSYSTEM (REPLACES WQEMCSK AND WMJMCS2C BITS OF THE WQE)                             |
|                                           |     | .1.. ....  |     | SSWTPRSP   | "X'40" PRTY WAS SPECIFIED ON WTO                                                                                    |
|                                           |     | ..1. ....  |     | SSWTMPFS   | "X'20" MESSAGE IS TO BE SUPPRESSED DUE TO MPF                                                                       |
|                                           |     | ...1 ....  |     | SSWTMPFP   | "X'10" MESSAGE WAS PROCESSED BY MPF AND IS NOT TO BE SUPPRESSED                                                     |
|                                           |     | .... 1...  |     | SSWTNMOD   | "X'08" THE CHARACTERISTICS OF THE MESSAGE MAY NOT BE MODIFIED BY THE PRIMARY SUBSYSTEM                              |
|                                           |     | .... .1..  |     | SSWTSNSP   | "X'04" SYSTEM NAME WAS SPECIFIED ON WTO                                                                             |
|                                           |     | .... ..1.  |     | SSWTSISP   | "X'02" SYSTEM ID WAS SPECIFIED ON WTO                                                                               |
| 3                                         | (3) | ADDRESS    | 1   | SSWTVRSN   | VERSION LEVEL                                                                                                       |
| 3                                         | (3) | X'1'       | 0   | SSWT211    | "1" VERSION LEVEL FOR OS/VS2 JBB2110                                                                                |
| 3                                         | (3) | X'2'       | 0   | SSWT220    | "2" VERSION LEVEL FOR OS/VS2 JBB2220                                                                                |
| 3                                         | (3) | X'2'       | 0   | SSWTVRID   | "SSWT220" VERSION LEVEL VALUE                                                                                       |



| Offsets                                                                                                                                                                                                          |      |            |     |            |                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-----|------------|-----------------------------------------|
| Dec                                                                                                                                                                                                              | Hex  | Type/Value | Len | Name (Dim) | Description                             |
| Comment                                                                                                                                                                                                          |      |            |     |            |                                         |
| FOLLOWING WTO SUBSYSTEM INTERFACES MAY EXIST -<br>- SINGLE WTO OR FIRST LINE OF MULTI-LINE WTO:<br>SSWTMIN, SSWTORE ARE 0<br>- SECOND TO N-TH LINE OF MULTI-LINE WTO:<br>SSWTORE IS 0<br>- WTOR:<br>SSWTMIN IS 0 |      |            |     |            |                                         |
| End of Comment                                                                                                                                                                                                   |      |            |     |            |                                         |
| 4                                                                                                                                                                                                                | (4)  | ADDRESS    | 4   | SSWTWQE    | WQE ADDRESS (MAJOR)                     |
| 8                                                                                                                                                                                                                | (8)  | ADDRESS    | 4   | SSWTMIN    | MINOR WQE ADDRESS                       |
| 12                                                                                                                                                                                                               | (C)  | ADDRESS    | 4   | SSWTORE    | OPERATOR REPLY ELEMENT ADDRESS          |
| 16                                                                                                                                                                                                               | (10) | SIGNED     | 2   | SSWTPRTY   | PRIORITY TO BE ASSIGNED TO THIS MESSAGE |
| 18                                                                                                                                                                                                               | (12) | CHARACTER  | 2   | SSWTRSV1   | RESERVED                                |
| 18                                                                                                                                                                                                               | (12) | X'14'      | 0   | SSWTSIZE   | "*-SSWTBGN" WTO EXTENSION LENGTH        |
| 18                                                                                                                                                                                                               | (12) | X'14'      | 0   | SSOBLN6    | "SSOBHSIZ+SSWTSIZE" TOTAL SSOB LENGTH   |

### SSWT Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| SSOBCONS | 0          | 21        |
| SSOBLN6  | 12         | 14        |
| SSOBWTL  | 0          | 22        |
| SSOBWTO  | 0          | 9         |
| SSWTBGN  | 0          | 0         |
| SSWTFLG1 | 2          |           |
| SSWTLEN  | 0          |           |
| SSWTMIN  | 8          |           |
| SSWTMPFP | 2          | 10        |
| SSWTMPFS | 2          | 20        |
| SSWTNDNH | 0          | C         |
| SSWTNDSP | 0          | 4         |
| SSWTNMOD | 2          | 8         |
| SSWTOKNH | 0          | 8         |
| SSWTORE  | C          |           |
| SSWTPRSP | 2          | 40        |
| SSWTPRTY | 10         |           |
| SSWTPSB1 | 2          | 80        |
| SSWTRSV1 | 12         |           |
| SSWTRTOK | 0          | 0         |
| SSWTSISP | 2          | 2         |
| SSWTSIZE | 12         | 14        |
| SSWTSNSP | 2          | 4         |
| SSWTVRID | 3          | 2         |
| SSWTVRSN | 3          |           |
| SSWTWQE  | 4          |           |
| SSWT211  | 3          | 1         |
| SSWT220  | 3          | 2         |



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## STAB Programming Interface Information

Programming Interface Information

STAB

End of Programming Interface Information

## STAB Heading Information

**Common Name:** CTRACE Subname Table mapping  
**Macro ID:** ITTSTAB  
**DSECT Name:** ITTSTAB  
**Owning Component:** Component Trace (SCTRC)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: 253  
**Size:** 264 bytes  
**Created by:** ITTOOCT/ITTCTSER or IPCS CTRACE subcommand  
**Pointed to by:** CTSSSNTP if the start/stop routine is invoked  
 CTXISNP if IPCS CTRACE subcommand processing  
  
**Note:** Only used if the trace is a SUB trace.  
**Serialization:** None  
**Function:** Mapping of the subname node for the TRACE being processed.

## STAB Map

| Offsets |     |            |     |             |                                                                                       |
|---------|-----|------------|-----|-------------|---------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim)  | Description                                                                           |
| 0       | (0) | STRUCTURE  | 0   | ITTSTAB     |                                                                                       |
| 0       | (0) | CHARACTER  | 1   | STABLEN (8) | * Array with the length of each subname in the SUBNSTRG.                              |
| 8       | (8) | CHARACTER  | 256 | STABSTRG    | * List of subnames. Use STABLEN to determine the length and location of each subname. |

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## STCB Programming Interface information

Programming Interface information

### STCB

**ONLY** the following fields are part of the programming interface information:

- STCBDB2
- STCBFLC0
- STCBFLG2
- STCBFLG6
- STCBFPFL
- STCBIPKF
- STCBIPKM
- STCBOTCB
- STCBTTCB
- STCBVREQ
- STCBVTME

End of Programming Interface information

## STCB Heading Information

**Common Name:** Secondary Task Control Block (TCB)  
**Macro ID:** IHASTCB  
**DSECT Name:** STCB  
**Owning Component:** Task Management (SC1CL)  
**Eye-Catcher ID:** STCB  
 Offset: 0  
 Length: 4  
**Storage Attributes:** Subpool: 253 (ELSQA)  
 Key: 0  
 Residency: Above 16 MB line  
**Size:** OFFSET OF STCBEND MINUS THE OFFSET OF STCB  
**Created by:** IEAVEMIN  
 IEAVEATO  
 IEAMSWCB  
**Pointed to by:** TCBSTCB field of the TCB data areas  
**Serialization:** Depends on the field  
**Function:** The secondary task control block (STCB) allows task-related information to be kept above 16 megabytes.

## STCB Map

| Offsets |      |            |     |              |                                                                                                                                       |
|---------|------|------------|-----|--------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                                           |
| 0       | (0)  | STRUCTURE  | 0   | STCB         | SECONDARY TCB                                                                                                                         |
| 0       | (0)  | DBL WORD   | 8   | STCBEGIN (0) | BEGINNING OF STCB                                                                                                                     |
| 0       | (0)  | CHARACTER  | 4   | STCBSTCB     | ACRONYM IN EBCDIC -STCB-                                                                                                              |
| 4       | (4)  | ADDRESS    | 4   | STCBRACP     | POINTER TO RACF DATA FOR THIS TASK. OWNERSHIP: RACF. SERIALIZATION: NONE.                                                             |
| 8       | (8)  | ADDRESS    | 4   | STCBDIVF     | POINTER TO 1ST DOA (DIV OBJECT ACCESS CONTROL BLOCK) FOR TCB. OWNERSHIP: DIV. SERIALIZATION: CML LOCK.                                |
| 12      | (C)  | ADDRESS    | 4   | STCBDIVL     | POINTER TO LAST DOA FOR TCB. OWNERSHIP: DIV. SERIALIZATION: CML LOCK.                                                                 |
| 16      | (10) | BITSTRING  | 2   | STCBAFNS     | ORIGINAL CPU AFFINITY SAVE AREA USED TO SAVE TCBAFFN                                                                                  |
| 18      | (12) | SIGNED     | 2   | STCBCTSC     | Number of consecutive dispatches remaining for this task                                                                              |
| 20      | (14) | ADDRESS    | 4   | STCBVSSA     | ADDRESS OF VECTOR STATUS SAVE AREA OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: LOCAL LOCK TO WRITE AND TCBACTIV TO READ              |
| 24      | (18) | BITSTRING  | 1   | STCBVAFN     | VECTOR AFFINITY AND STATUS SAVED INDICATORS OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: TASK MODE IS TCBACTIV SRB MODE IS LOCAL LOCK |
|         |      | 1... ....  |     | STCBVMCK     | "X'80" VECTOR STATUS LOST DUE TO MACHINE CHECK                                                                                        |
|         |      | .1.. ....  |     | STCBSLID     | "X'40" LOGICAL CPU ID MASK                                                                                                            |
|         |      | ..1. ....  |     | STCBVISA     | "X'20" VECTOR STATUS SAVED IN VSSA                                                                                                    |
|         |      | .... 1111  |     | STCBSLCI     | "X'0F" IF STCBSLID IS ON THEN THIS NIBBLE IS THE PHYSICAL CPU ID                                                                      |
| 25      | (19) | BITSTRING  | 1   | STCBFLG1     | FLAG BYTE OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: TASK MODE IS TCBACTIV SRB MODE IS LOCAL LOCK                                   |
|         |      | 1... ....  |     | STCBPIQ      | "X'80" INDICATES TO STAGE 3 EXIT EFFECTOR THAT IRB QUEUEING IS PROHIBITED. USE ONLY FOR ASYMMETRIC FEATURE PROCESSING.                |
|         |      | .1.. ....  |     | STCBVFRV     | "X'40" INDICATES THE USER IS NOT RACF AUTHORIZED TO THE VECTOR FACILITY                                                               |
|         |      | ..1. ....  |     | STCBVFRD     | "X'20" INDICATES THE VECTOR SLIH HAS PERFORMED THE RACF AUTHORIZATION CHECKING                                                        |
|         |      | ...1 ....  |     | STCBSST      | "X'10" Indicates that the task is a Subspace task.                                                                                    |

| Offsets |      |            |     |             |                                                                                                                                                                                                                                                                                  |
|---------|------|------------|-----|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)  | Description                                                                                                                                                                                                                                                                      |
|         |      | .... 1...  |     | STCBCLUP    | "X'08" Cleanup only 991006                                                                                                                                                                                                                                                       |
|         |      | .... .1..  |     | STCBILM     | "X'04" Some ILM work done for this                                                                                                                                                                                                                                               |
| 26      | (1A) | BITSTRING  | 2   |             | Reserved                                                                                                                                                                                                                                                                         |
| 28      | (1C) | ADDRESS    | 4   | STCBVFRB    | ADDRESS OF THE RB STOPPED BY THE VECTOR SLIH<br>PENDING VECTOR ENVIRONMENT CREATION.<br>OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION:<br>DISP LOCK                                                                                                                               |
| 32      | (20) | ADDRESS    | 4   | STCBALOV    | WORK UNIT ACCESS LIST VIRTUAL ADDRESS.<br>OWNERSHIP: PC/AUTH. SERIALIZATION: TCBACTIV.                                                                                                                                                                                           |
| 36      | (24) | ADDRESS    | 4   | STCBALD     | WORK UNIT ACCESS LIST DESIGNATOR. BITS 1-24 WITH<br>SEVEN ZEROES APPENDED ON THE RIGHT FORM THE<br>31-BIT REAL ADDRESS OF THE WORKUNIT'S ACCESS<br>LIST. BITS 25-31 REPRESENT THE NUMBER OF 128 BYTE<br>ACCESS LISTS, MINUS ONE. OWNERSHIP: PC/AUTH.<br>SERIALIZATION: TCBACTIV. |
| 40      | (28) | ADDRESS    | 4   | STCBDUCV    | VIRTUAL ADDRESS OF THE DUCT. OWNERSHIP:<br>SUPERVISOR CONTROL. SERIALIZATION: TCBACTIV.                                                                                                                                                                                          |
| 44      | (2C) | ADDRESS    | 4   | STCBDUCR    | REAL ADDRESS OF THE DUCT. OWNERSHIP:<br>SUPERVISOR CONTROL. SERIALIZATION: TCBACTIV.                                                                                                                                                                                             |
| 48      | (30) | BITSTRING  | 64  | STCBARS (0) | ACCESS REGISTER SAVEAREA. OWNERSHIP:<br>SUPERVISOR CONTROL. SERIALIZATION: DISABLEMENT.                                                                                                                                                                                          |
| 48      | (30) | SIGNED     | 4   | STCBAR0     | ACCESS REGISTER 0 SAVE AREA.                                                                                                                                                                                                                                                     |
| 52      | (34) | SIGNED     | 4   | STCBAR1     | ACCESS REGISTER 1 SAVE AREA.                                                                                                                                                                                                                                                     |
| 56      | (38) | SIGNED     | 4   | STCBAR2     | ACCESS REGISTER 2 SAVE AREA.                                                                                                                                                                                                                                                     |
| 60      | (3C) | SIGNED     | 4   | STCBAR3     | ACCESS REGISTER 3 SAVE AREA.                                                                                                                                                                                                                                                     |
| 64      | (40) | SIGNED     | 4   | STCBAR4     | ACCESS REGISTER 4 SAVE AREA.                                                                                                                                                                                                                                                     |
| 68      | (44) | SIGNED     | 4   | STCBAR5     | ACCESS REGISTER 5 SAVE AREA.                                                                                                                                                                                                                                                     |
| 72      | (48) | SIGNED     | 4   | STCBAR6     | ACCESS REGISTER 6 SAVE AREA.                                                                                                                                                                                                                                                     |
| 76      | (4C) | SIGNED     | 4   | STCBAR7     | ACCESS REGISTER 7 SAVE AREA.                                                                                                                                                                                                                                                     |
| 80      | (50) | SIGNED     | 4   | STCBAR8     | ACCESS REGISTER 8 SAVE AREA.                                                                                                                                                                                                                                                     |
| 84      | (54) | SIGNED     | 4   | STCBAR9     | ACCESS REGISTER 9 SAVE AREA.                                                                                                                                                                                                                                                     |
| 88      | (58) | SIGNED     | 4   | STCBAR10    | ACCESS REGISTER 10 SAVE AREA.                                                                                                                                                                                                                                                    |
| 92      | (5C) | SIGNED     | 4   | STCBAR11    | ACCESS REGISTER 11 SAVE AREA.                                                                                                                                                                                                                                                    |
| 96      | (60) | SIGNED     | 4   | STCBAR12    | ACCESS REGISTER 12 SAVE AREA.                                                                                                                                                                                                                                                    |
| 100     | (64) | SIGNED     | 4   | STCBAR13    | ACCESS REGISTER 13 SAVE AREA.                                                                                                                                                                                                                                                    |
| 104     | (68) | SIGNED     | 4   | STCBAR14    | ACCESS REGISTER 14 SAVE AREA.                                                                                                                                                                                                                                                    |
| 108     | (6C) | SIGNED     | 4   | STCBAR15    | ACCESS REGISTER 15 SAVE AREA.                                                                                                                                                                                                                                                    |
| 112     | (70) | ADDRESS    | 4   | STCBLSSD    | VIRTUAL ADDRESS OF THE LSSD FOR THE TASK.<br>OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION:<br>LOCAL LOCK.                                                                                                                                                                        |
| 116     | (74) | ADDRESS    | 4   | STCBLSDP    | LINKAGE STACK ENTRY DESCRIPTOR (LSED) POINTER.<br>OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION:<br>DISABLEMENT.                                                                                                                                                                  |
| 120     | (78) | DBL WORD   | 8   | STCBRME (0) | TASK RELATED RESOURCE MANAGER QUEUE POINTERS.<br>OWNERSHIP: RTM. SERIALIZATION: LOCAL LOCK.                                                                                                                                                                                      |
| 120     | (78) | ADDRESS    | 4   | STCBRMEF    | POINTER TO HEAD OF TASK RELATED RESOURCE<br>MANAGER QUEUE.                                                                                                                                                                                                                       |
| 124     | (7C) | ADDRESS    | 4   | STCBRMEL    | POINTER TO TAIL OF TASK RELATED RESOURCE<br>MANAGER QUEUE.                                                                                                                                                                                                                       |
| 128     | (80) | ADDRESS    | 4   | STCBESTK    | VIRTUAL ADDRESS OF THE LINKAGE STACK ENTRY<br>DESCRIPTOR (LSED) REPRESENTING AN EMPTY LINKAGE<br>STACK. OWNERSHIP: SUPERVISOR CONTROL.<br>SERIALIZATION: N/A.                                                                                                                    |
| 132     | (84) | BITSTRING  | 1   | STCBFLG2    | FLAG BYTE OWNERSHIP: RTM,CSV. SERIALIZATION:<br>LOCAL LOCK.                                                                                                                                                                                                                      |
|         |      | 1... ....  |     | STCBRMET    | "X'80" IF ON, INDICATES TASK IS IN TERMINATION AND NO<br>FURTHER RESOURCE MANAGER REQUESTS WILL BE<br>HONORED.                                                                                                                                                                   |
|         |      | .1.. ....  |     | STCBINRT    | "X'40" The task is processing within RTLS. An IRB must not<br>issue a CSVRTLS request.                                                                                                                                                                                           |
|         |      | ..1. ....  |     | STCBPROP    | "X'20" ATTACH is propagating the PKM.                                                                                                                                                                                                                                            |
| 133     | (85) | BITSTRING  | 1   | STCBFLG3    | FLAG BYTE OWNERSHIP: RTM. SERIALIZATION: TCBACTIV                                                                                                                                                                                                                                |
|         |      | 1... ....  |     | STCBNCNL    | "X'80" TASK IS NOT SUBJECT TO CANCEL OR DETACH.                                                                                                                                                                                                                                  |
|         |      | .1.. ....  |     | STCBNOAB    | "X'40" NCNL EXTENSION                                                                                                                                                                                                                                                            |

## STCB Map

| Offsets |      | Type/Value                          | Len | Name (Dim)                       | Description                                                                                                                                                                 |
|---------|------|-------------------------------------|-----|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  |                                     |     |                                  |                                                                                                                                                                             |
|         |      | ..1. ....                           |     | STCBRTNC                         | "X'20" ABTERMS OF THIS TASK ARE TO BE DEFERRED WHILE RTM2 PROCESSING IS ACTIVE                                                                                              |
| 134     | (86) | SIGNED                              | 2   | STCBNSTP                         | COUNT OF REQUESTS TO IGNORE SRB TO TASK PERCOLATIONS OWNERSHIP: RTM. SERIALIZATION: TCBACTIV                                                                                |
| 136     | (88) | ADDRESS                             | 4   | STCBTLSD                         | ADDRESS OF TASK RELATED LSSD FOR THE LINKAGE STACK FROM DREF STORAGE                                                                                                        |
| 140     | (8C) | ADDRESS                             | 4   | STCBTLSP                         | ADDRESS OF TASK RELATED INITIAL LSED FOR THE LINKAGE STACK FROM DREF STORAGE                                                                                                |
| 144     | (90) | CHARACTER                           | 16  | STCBTTKN                         | TOKEN FOR THIS TASK OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: LOCAL LOCK                                                                                                 |
| 160     | (A0) | ADDRESS                             | 4   | STCBALOC                         | POINTER TO DYNAMIC STORAGE BUFFER OWNERSHIP: ALLOCATION SERIALIZATION: NONE                                                                                                 |
| 164     | (A4) | BITSTRING                           | 2   | STCBR0A4                         | RESERVED.                                                                                                                                                                   |
| 166     | (A6) | BITSTRING                           | 2   | STCBTAFA                         | Transient feature affinity. SERIALIZATION: TCBACTIV OWNERSHIP: SUPERVISOR CONTROL                                                                                           |
| 168     | (A8) | DBL WORD                            | 8   | STCBVTME                         | VECTOR TIME. OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: TCBACTIV                                                                                                          |
| 176     | (B0) | SIGNED                              | 4   | STCBMEMC                         | Count of XCF members under this task. OWNERSHIP: XCF. SERIALIZATION: Compare-and-Swap.                                                                                      |
| 180     | (B4) | BITSTRING<br>1... ....              | 1   | STCBXCFF<br>STCBSUSM             | XCF FLAG. OWNERSHIP: XCF. SERIALIZATION: TCBACTIV. "X'80" Bit flag for use by XCF.                                                                                          |
| 181     | (B5) | BITSTRING<br>1... ....              | 1   | STCBFLG4<br>STCBENFL             | Flag byte 4. "X'80" If on, indicates task issued ENF listen request. Ownership: ENF. Serialization: None.                                                                   |
| 182     | (B6) | BITSTRING<br>1... ....              | 1   | STCBFLG5<br>STCBUNCK             | Flag byte 5. "X'80" If on, user requests no checkpoint. Ownership: Scheduler/Allocation. Serialization: None.                                                               |
|         |      | .1.. ....                           |     | STCBENCK                         | "X'40" If on, checkpoint not honored due to environmental constraints. Ownership: Scheduler/Allocation. Serialization: None.                                                |
|         |      | ..1. ....                           |     | STCBOPTC                         | "X'20" If on, indicates task is running under control of the OpenMVS Ptrace debugger. Ownership: OpenMVS. Serialization: Compare-and-Swap                                   |
| 183     | (B7) | BITSTRING<br>1... ....              | 1   | STCBFLG6<br>STCBSATF             | Flag byte 6. Serialization: None "X'80" If on, indicates that RACF should check TCBNCTL in this TCB rather than finding the jobstep TCB when performing program protection. |
| 184     | (B8) | ADDRESS                             | 4   | STCBDFTS                         | ADDRESS OF THE DFP-SMSX STRUCTURE FOR THE TASK. OWNERSHIP: DFP. SERIALIZATION: NONE                                                                                         |
| 188     | (BC) | ADDRESS                             | 4   | STCBJSAB                         | ADDRESS OF JOB SCHEDULER ADDRESS SPACE BLOCK. OWNERSHIP: CONTROLLING JOB SCHEDULER. SERIALIZATION: SEE MACRO IAZXJSAB.                                                      |
| 192     | (C0) | ADDRESS                             | 4   | STCBTTCB                         | TCPIP STCB Extension Ownership: TCPIP Serialization: Compare and Swap when this task is activated as a TCPIP client                                                         |
| 196     | (C4) | SIGNED                              | 4   | STCBRGSV (0)                     | Registration Services Indicators Ownership: Registration Services Serialization: RegServ Lock.                                                                              |
| 196     | (C4) | BITSTRING<br>1... ....<br>.1.. .... | 1   | STCBRGS1<br>STCBRGRM<br>STCBRGEM | First Byte of Indicators "X'80" Task has registered as one or more resource managers. "X'40" Task has registered as one or more exit managers.                              |
| 197     | (C5) | BITSTRING                           | 3   | STCBRGS2                         | Unused but reserved by CRG                                                                                                                                                  |
| 200     | (C8) | ADDRESS                             | 4   | STCBNTTP                         | Address of task level Name/Token header. Ownership: Supervisor Control. Serialization: Local lock.                                                                          |
| 204     | (CC) | SIGNED                              | 4   | STCBCON#                         | NUMBER OF IXLCONN IN EFFECT FOR THIS TASK. OWNERSHIP: SYSTEM LOCK MANAGER. SERIALIZATION: TCBACTIV.                                                                         |
| 208     | (D0) | SIGNED                              | 4   | STCBRCTS (0)                     | REFERENCE PATTERN COUNTS. OWNERSHIP: RSM. SERIALIZATION: RSMAD LOCK FOR THE ADDRESS SPACE OF THE TASK.                                                                      |
| 208     | (D0) | SIGNED                              | 2   | STCBARCT                         | NUMBER OF REFERENCE PATTERNS SPECIFIED FOR ADDRESS SPACE VIRTUAL STORAGE.                                                                                                   |
| 210     | (D2) | SIGNED                              | 2   | STCBDRCT                         | NUMBER OF REFERENCE PATTERNS SPECIFIED FOR DATA SPACE VIRTUAL STORAGE.                                                                                                      |



| Offsets |       |            |     |            |                                                                                                                                                                                                                                                           |
|---------|-------|------------|-----|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                                                               |
| 212     | (D4)  | BITSTRING  | 4   | STCBDFP    | RESERVED FOR USE BY DFP. OWNERSHIP: DFP. SERIALIZATION: LOCAL LOCK.                                                                                                                                                                                       |
|         |       | 1... ....  |     | STCBOAM    | "X'80" TASK IS A USER OF OAM RESOURCES.                                                                                                                                                                                                                   |
| 216     | (D8)  | ADDRESS    | 4   | STCBOTCB   | Address of OpenMVS Task Control Block. Ownership: OpenMVS. Serialization: Local lock.                                                                                                                                                                     |
| 220     | (DC)  | ADDRESS    | 4   | STCBCDXH   | ADDRESS OF THE JOB PACK QUEUE CDE EXTENSIONS HASH TABLE. OWNERSHIP: CONTENTS SUPERVISOR (CSV) SERIALIZATION: LOCAL LOCK.                                                                                                                                  |
| 224     | (E0)  | ADDRESS    | 4   | STCBSJST   | ADDRESS OF THE LOCAL STORAGE OBTAINED BY THE SJF CONTROL MODULE. OWNERSHIP: SCHEDULER JCL FACILITY. SERIALIZATION: NONE.                                                                                                                                  |
| 228     | (E4)  | ADDRESS    | 4   | STCBATAD   | Address of the ATTACH SVC in the routine which created this task.                                                                                                                                                                                         |
| 232     | (E8)  | ADDRESS    | 4   | STCBWEB    | Address of task's WEB. SERIALIZATION: Disablement. OWNERSHIP: Task Management.                                                                                                                                                                            |
| 236     | (EC)  | SIGNED     | 4   | STCBSEQN   | RB Sequence Number Counter. Ownership: Supervisor Control. Serialization: Compare-and-Swap.                                                                                                                                                               |
| 240     | (F0)  | SIGNED     | 2   | STCBXCNT   | EXCP count per TCB. Ownership: EXCP. Serialization: Local lock.                                                                                                                                                                                           |
| 242     | (F2)  | BITSTRING  | 1   | STCBCONS   | Console Flag. Ownership: Consoles. Serialization: None.                                                                                                                                                                                                   |
|         |       | 1... ....  |     | STCBWTO    | "X'80" Jobstep TCB issued a WTO                                                                                                                                                                                                                           |
| 243     | (F3)  | BITSTRING  | 1   | STCBFLG7   | Flag byte 7.                                                                                                                                                                                                                                              |
|         |       | 1... ....  |     | STCBRTLS   | "X'80" Internal use only                                                                                                                                                                                                                                  |
|         |       | .1.. ....  |     | STCBRTLA   | "X'40" Internal use only                                                                                                                                                                                                                                  |
| 244     | (F4)  | SIGNED     | 4   | STCBPECB   | ECB used internally by RTM processing during task termination. Ownership: RTM. Serialization: Local lock.                                                                                                                                                 |
| 248     | (F8)  | ADDRESS    | 4   | STCBIXGL   | Pointer to SLC task related information. Ownership: System Logger. Serialization: Local lock.                                                                                                                                                             |
| 252     | (FC)  | ADDRESS    | 4   | STCBDETA   | Address of Task being Detached by this Task. Ownership: Detach Serialization: Local Lock                                                                                                                                                                  |
| 256     | (100) | ADDRESS    | 4   | STCBPQUE   | Address of the next Task that requires Parallel Detach protection Ownership: RTM Serialization: Local Lock                                                                                                                                                |
| 260     | (104) | CHARACTER  | 4   | STCBR104   | Reserved.                                                                                                                                                                                                                                                 |
| 264     | (108) | ADDRESS    | 4   | STCBSTSB   | Address of the STSB (IWMSTSB). Ownership: WLM Serialization: WLMQ lock.                                                                                                                                                                                   |
| 268     | (10C) | CHARACTER  | 8   | STCBEUTK   | Execution unit token for this task Ownership: WLM                                                                                                                                                                                                         |
| 276     | (114) | ADDRESS    | 4   | STCBENCR   | Address of the root task in the current attach chain. NOTE: This field is only valid if this task's WEBTYPE=WEBTETCB. Ownership: Supervisor Serialization: TCBACTIV (executing under task in module IEAVJOIN.)                                            |
| 280     | (118) | SIGNED     | 4   | STCBENCC   | Count of subtasks that have joined the root task's enclave via attach. NOTE: This field is only valid for the root tcb (STCBENCR). Also, it is only valid if the root tcb's WEBTYPE is WEBTETCB. Ownership: Supervisor Serialization: Enclave queue lock. |
| 284     | (11C) | ADDRESS    | 4   | STCBDB2    | Token used by DB/2. Serialization: TCBACTIV                                                                                                                                                                                                               |
| 288     | (120) | CHARACTER  | 4   | STCBR120   | Reserved.                                                                                                                                                                                                                                                 |
| 292     | (124) | CHARACTER  | 4   | STCBPMOM   | Address of purge-only Mother Task Ownership: RTM Serialization: local lock                                                                                                                                                                                |
| 296     | (128) | CHARACTER  | 4   | STCBOFLG   | Openedition flags                                                                                                                                                                                                                                         |
| 300     | (12C) | ADDRESS    | 4   | STCBBCBA   | Address of SOMObjects data structure Ownership: SOMObjects for OS/390 Serialization: CS                                                                                                                                                                   |
| 304     | (130) | BITSTRING  | 4   | STCBFLCS   | CS-serialized flags                                                                                                                                                                                                                                       |
| 304     | (130) | BITSTRING  | 1   | STCBFLC0   | Byte 0 of CS-serialized flags                                                                                                                                                                                                                             |
|         |       | 1... ....  |     | STCBTRST   | "X'80" RACF program control trust                                                                                                                                                                                                                         |
|         |       | .1.. ....  |     | STCBNTRS   | "X'40" RACF program control non-trust                                                                                                                                                                                                                     |
|         |       | ..1. ....  |     | STCBPSEN   | "X'20" Copy of RCVTPSEN at the time the task was attached. Valid only for jobstep task                                                                                                                                                                    |
|         |       | ...1 ....  |     | STCBPSBA   | "X'10" RACF basic program security                                                                                                                                                                                                                        |
| 305     | (131) | BITSTRING  | 1   | STCBFLC1   | Byte 1 of CS-serialized flags                                                                                                                                                                                                                             |
| 306     | (132) | BITSTRING  | 1   | STCBFLC2   | Byte 2 of CS-serialized flags                                                                                                                                                                                                                             |
| 307     | (133) | BITSTRING  | 1   | STCBFLC3   | Byte 3 of CS-serialized flags                                                                                                                                                                                                                             |

## STCB Cross Reference

| Offsets |       |            |     |             |                                                                                                                                                    |
|---------|-------|------------|-----|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim)  | Description                                                                                                                                        |
| 308     | (134) | BITSTRING  | 4   | STCBVREQ    | State of outstanding VTAM requests for this task. Ownership: VTAM Serialization: Modified only by VTAM requests running under this task.           |
| 312     | (138) | CHARACTER  | 100 | STCBAFPR    | FP save area: 1,3,5,7-15,FPCR                                                                                                                      |
| 412     | (19C) | BITSTRING  | 1   | STCBFPFL    | FP Flags                                                                                                                                           |
|         |       | 1... ....  |     | STCBBFP     | "X'80" Extended FP saving rqd                                                                                                                      |
|         |       | ...1 ....  |     | STCBVSS     | "X'10" Vector status saving. This bit reflects the STCBVISA value, in the same byte as STCBBFP so that the dispatcher can check both with one test |
| 413     | (19D) | BITSTRING  | 1   | STCBIPKF    | Initial PKF. This is used to deal with propagating PKM. If you change TCBPKF, you should change STCBIPKF to match if you want PKM propagation.     |
| 414     | (19E) | BITSTRING  | 2   | STCBIPKM    | Initial PKM. This is used to deal with propagating PKM. If you change TCBPKF, you should change STCBIPKM to match if you want PKM propagation.     |
| 416     | (1A0) | BITSTRING  | 64  | STCBG64H    | High halves of 64-bit GPRs                                                                                                                         |
| 480     | (1E0) | DBL WORD   | 8   | STCBEND (0) | END OF STCB.                                                                                                                                       |

## STCB Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| STCB     | 0          |           | STCBENCC | 118        |           |
| STCBAFNS | 10         |           | STCBENCK | B6         | 40        |
| STCBAFPR | 138        |           | STCBENCR | 114        |           |
| STCBALD  | 24         |           | STCBEND  | 1E0        |           |
| STCBALOC | A0         |           | STCBENFL | B5         | 80        |
| STCBALOV | 20         |           | STCBESTK | 80         |           |
| STCBARCT | D0         |           | STCBEUTK | 10C        |           |
| STCBARS  | 30         |           | STCBFLCS | 130        |           |
| STCBAR0  | 30         |           | STCBFLC0 | 130        |           |
| STCBAR1  | 34         |           | STCBFLC1 | 131        |           |
| STCBAR10 | 58         |           | STCBFLC2 | 132        |           |
| STCBAR11 | 5C         |           | STCBFLC3 | 133        |           |
| STCBAR12 | 60         |           | STCBFLG1 | 19         |           |
| STCBAR13 | 64         |           | STCBFLG2 | 84         |           |
| STCBAR14 | 68         |           | STCBFLG3 | 85         |           |
| STCBAR15 | 6C         |           | STCBFLG4 | B5         |           |
| STCBAR2  | 38         |           | STCBFLG5 | B6         |           |
| STCBAR3  | 3C         |           | STCBFLG6 | B7         |           |
| STCBAR4  | 40         |           | STCBFLG7 | F3         |           |
| STCBAR5  | 44         |           | STCBFPFL | 19C        |           |
| STCBAR6  | 48         |           | STCBG64H | 1A0        |           |
| STCBAR7  | 4C         |           | STCBILM  | 19         | 4         |
| STCBAR8  | 50         |           | STCBINRT | 84         | 40        |
| STCBAR9  | 54         |           | STCBIPKF | 19D        |           |
| STCBATAD | E4         |           | STCBIPKM | 19E        |           |
| STCBBCBA | 12C        |           | STCBIXGL | F8         |           |
| STCBBFP  | 19C        | 80        | STCBJSAB | BC         |           |
| STCBCDXH | DC         |           | STCBLSDP | 74         |           |
| STCBCLUP | 19         | 8         | STCBLSSD | 70         |           |
| STCBCON# | CC         |           | STCBMEMC | B0         |           |
| STCBCONS | F2         |           | STCBNCNL | 85         | 80        |
| STCBCTSC | 12         |           | STCBNOAB | 85         | 40        |
| STCBDB2  | 11C        |           | STCBNSTP | 86         |           |
| STCBDETA | FC         |           | STCBNTRS | 130        | 40        |
| STCBDFP  | D4         |           | STCBNTTP | C8         |           |
| STCBDFTS | B8         |           | STCBOAM  | D4         | 80        |
| STCBDIVF | 8          |           | STCBOFLG | 128        |           |
| STCBDIVL | C          |           | STCBOPTC | B6         | 20        |
| STCBDRCT | D2         |           | STCBOTCB | D8         |           |
| STCBDUCR | 2C         |           | STCBPECB | F4         |           |
| STCBDUCV | 28         |           | STCBPIQ  | 19         | 80        |
| STCBEGIN | 0          |           | STCBPMOM | 124        |           |

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| STCBPQUE | 100           |              |
| STCBPROP | 84            | 20           |
| STCBPSBA | 130           | 10           |
| STCBPSEN | 130           | 20           |
| STCBRACP | 4             |              |
| STCBRCTS | D0            |              |
| STCBRGEM | C4            | 40           |
| STCBRGRM | C4            | 80           |
| STCBRGSV | C4            |              |
| STCBRGS1 | C4            |              |
| STCBRGS2 | C5            |              |
| STCBRME  | 78            |              |
| STCBRMEF | 78            |              |
| STCBRMEL | 7C            |              |
| STCBRMET | 84            | 80           |
| STCBRTL  | F3            | 40           |
| STCBRTLS | F3            | 80           |
| STCBRTNC | 85            | 20           |
| STCBROA4 | A4            |              |
| STCBR104 | 104           |              |
| STCBR120 | 120           |              |
| STCBSATF | B7            | 80           |
| STCBSEQN | EC            |              |
| STCBSJST | E0            |              |
| STCBSLCI | 18            | F            |
| STCBSLID | 18            | 40           |
| STCBSST  | 19            | 10           |
| STCBSTCB | 0             |              |
| STCBSTSB | 108           |              |
| STCBSUSM | B4            | 80           |
| STCBTAF  | A6            |              |
| STCBTLSD | 88            |              |
| STCBTLSP | 8C            |              |
| STCBTRST | 130           | 80           |
| STCBTTCB | C0            |              |
| STCBTTKN | 90            |              |
| STCBUNCK | B6            | 80           |
| STCBVAFN | 18            |              |
| STCBVFRB | 1C            |              |
| STCBVFRD | 19            | 20           |
| STCBVFRV | 19            | 40           |
| STCBVISA | 18            | 20           |
| STCBVMCK | 18            | 80           |
| STCBVREQ | 134           |              |
| STCBVSS  | 19C           | 10           |
| STCBVSSA | 14            |              |
| STCBVTME | A8            |              |
| STCBWEB  | E8            |              |
| STCBWTO  | F2            | 80           |
| STCBXCFF | B4            |              |
| STCBXCNT | F0            |              |



## STKE Heading Information

**Common Name:** PCLINK Stack Element (STKE)  
**Macro ID:** IHASTKE  
**DSECT Name:** STKE  
**Owning Component:** PC/AUTH (SCXMS)  
**Eye-Catcher ID:** STKE  
 Offset: 0  
 Length: 4  
**Storage Attributes:** Subpool: For local pools: 255 For global pool: 239  
 Key: For local pools: 0 For global pool: 0  
**Size:** 56 bytes  
**Created by:** IEAVXSTK  
**Pointed to by:** PSASTKE, XSBSTKE, STKHAEP, STKEPREV  
 When the STKE is on the free queue, the origin is STKHAEP and the link field is STKEPREV.  
 When the STKE is in use, the origin is PSASTKE or XSBSTKE and the link field is STKEPREV.  
**Serialization:** None  
**Function:** Maps the local and global PCLINK stack elements, which form the control blocks for the PCLINK STACK/UNSTACK/EXTRACT services.

## STKE Map

| Offsets |      |            |     |            |                                                                                                                               |
|---------|------|------------|-----|------------|-------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                   |
| 0       | (0)  | STRUCTURE  | 56  | STKE       | BEGINNING OF STACK ELEMENT                                                                                                    |
| 0       | (0)  | CHARACTER  | 4   | STKESTKE   | STKE acronym, STKE in all extents except the first which has STKP instead                                                     |
| 4       | (4)  | ADDRESS    | 4   | STKEHEAD   | ADDRESS OF POOL HEADER                                                                                                        |
| 8       | (8)  | CHARACTER  | 8   | STKEINFO   | STACK INFORMATION FOR PREVIOUS STKE (PSASTKE OR XSBSTKE HAS THE CORRESPONDING INFORMATION FOR THE TOP STKE FOR AN RB OR SRB.) |
| 8       | (8)  | UNSIGNED   | 2   | STKEPTKN   | TOKEN OF PRIOR ELEMENT                                                                                                        |
| 10      | (A)  | BITSTRING  | 2   | STKEPASD   | ASID OF PRIOR ELEMENT                                                                                                         |
| 12      | (C)  | ADDRESS    | 4   | STKEPREV   | ADDRESS OF PRIOR ELEMENT (IF IN USE) OR NEXT FREE ELEMENT (IF NOT IN USE)                                                     |
| 16      | (10) | BITSTRING  | 1   | STKEPGMM   | PROGRAM MASK FROM PSW OF CALLER                                                                                               |
| 17      | (11) | BITSTRING  | 1   | STKERSV1   | RESERVED                                                                                                                      |
| 18      | (12) | BITSTRING  | 2   | STKEASID   | ASID OF POOL                                                                                                                  |
| 20      | (14) | ADDRESS    | 4   | STKESA     | PREVIOUS SAVE AREA                                                                                                            |
| 24      | (18) | ADDRESS    | 4   | STKERET    | RETURN ADDRESS                                                                                                                |
| 28      | (1C) | UNSIGNED   | 4   | STKEPR15   | PARAMETER REGISTER 15                                                                                                         |
| 32      | (20) | UNSIGNED   | 4   | STKEPRM0   | PARAMETER REGISTER 0                                                                                                          |
| 36      | (24) | UNSIGNED   | 4   | STKEPRM1   | PARAMETER REGISTER 1                                                                                                          |
| 40      | (28) | BITSTRING  | 4   | STKEKEY    |                                                                                                                               |
| 40      | (28) | BITSTRING  | 3   | STKERE2    | BITS 8-31 OF REG 2 OF CALLER                                                                                                  |
| 43      | (2B) | BITSTRING  | 1   | STKEKEY2   | PSW KEY OF CALLER IN BITS 0-3                                                                                                 |
| 44      | (2C) | BITSTRING  | 2   | STKEKMSK   | PSW KEY MASK (PKM) OF CALLER                                                                                                  |
| 46      | (2E) | BITSTRING  | 2   | STKECASD   | PASID OF CALLER                                                                                                               |
| 48      | (30) | ADDRESS    | 4   | STKELPTR   | LATENT PARAMETER POINTER                                                                                                      |
| 52      | (34) | ADDRESS    | 4   | STKEEPA    | ENTRY POINT ADDRESS. IF BIT0=1, 31-BIT ADDRESSING MODE. IF BIT0=0, 24-BIT ADDRESSING MODE AND BITS 1-7 ARE UNPREDICTABLE      |
| 56      | (38) | CHARACTER  | 0   | STKEEND    | END OF STKE                                                                                                                   |

## STKE Cross Reference

### STKE Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| STKE     | 0             |              |
| STKEASID | 12            |              |
| STKECASD | 2E            |              |
| STKEEND  | 38            |              |
| STKEEPA  | 34            |              |
| STKEHEAD | 4             |              |
| STKEINFO | 8             |              |
| STKEKEY  | 28            |              |
| STKEKEY2 | 2B            |              |
| STKEKMSK | 2C            |              |
| STKELPTR | 30            |              |
| STKEPASD | A             |              |
| STKEPGMM | 10            |              |
| STKEPREV | C             |              |
| STKEPRM0 | 20            |              |
| STKEPRM1 | 24            |              |
| STKEPR15 | 1C            |              |
| STKEPTKN | 8             |              |
| STKEREG2 | 28            |              |
| STKERET  | 18            |              |
| STKERSV1 | 11            |              |
| STKESA   | 14            |              |
| STKESTKE | 0             |              |

## SVCTABLE Heading Information

**Common Name:** SVC Table Entry  
**Macro ID:** IHASVC  
**DSECT Name:** SVC Table Entry: SVCENTRY SVC Update Recording Table Entry: SVCURT  
**Owning Component:** Supervisor Control (SC1C5)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: Nucleus  
 Key: 0  
 Residency: Above 16M  
**Size:** SVC table: 8 bytes per entry, 256 entries  
 SVC update recording table: 24 bytes per entry, 256 entries  
**Created by:** SVC table: IEAVSVCT  
 SVC update recording table: IEAVSVCR  
**Pointed to by:** SVC table: SCVTSVCT field of the SCVT data area  
 SVC update recording table: SCVTSVCR field of the SCVT data area  
**Serialization:** Controlled by the SVC table update service (IEAVESTU)  
**Function:** SVC table: Each entry contains information for a particular SVC function--the SVC entry point address, type, APF authorized, and locks needed before the module can be executed. SVC update recording table: Each entry contains a record of an update of the corresponding SVC table entry.  
 Note: Entries in the SVC table are updated at IPL time from the SYS1.PARMLIB member IEASVCnn, or dynamically by the SVCUPDTE macro.

## SVCTABLE Map

| Offsets |     | Type/Value | Len | Name (Dim)   | Description                                                                      |
|---------|-----|------------|-----|--------------|----------------------------------------------------------------------------------|
| Dec     | Hex |            |     |              |                                                                                  |
| 0       | (0) | STRUCTURE  | 0   | SVCENTRY     |                                                                                  |
| 0       | (0) | ADDRESS    | 4   | SVCEP        | SVC ENTRY POINT ADDRESS                                                          |
|         |     | 1... ....  |     | SVCAMODE     | "X'80" AMODE INDICATOR                                                           |
| 4       | (4) | SIGNED     | 2   | SVCATTR1 (0) | ATTRIBUTES                                                                       |
| 4       | (4) | BITSTRING  | 1   | SVCTP        | TYPE FIELD                                                                       |
|         |     | .... ....  |     | SVCTP1       | "X'00" TYPE 1 SVC                                                                |
|         |     | 1... ....  |     | SVCTP2       | "X'80" TYPE 2 SVC                                                                |
|         |     | 11.. ....  |     | SVCTP34      | "X'C0" TYPE 3 OR 4 SVC                                                           |
|         |     | ..1. ....  |     | SVCTP6       | "X'20" TYPE 6 SVC                                                                |
|         |     | .... 1..   |     | SVCAFP       | "X'08" APF AUTHORIZED 1-AUTHORIZED                                               |
|         |     | .... .1..  |     | SVCESR       | "X'04" SVC IS A PART OF THE ESR                                                  |
|         |     | .... ..1.  |     | SVCNP        | "X'02" NON-PREEMPTIVE SVC                                                        |
|         |     | .... ...1  |     | SVCASF       | "X'01" SVC CAN BE ASSISTED                                                       |
| 5       | (5) | BITSTRING  | 1   | SVCATTR3     | ATTRIBUTES                                                                       |
|         |     | 1... ....  |     | SVCAR        | "X'80" SVC MAY BE ISSUED IN AR ASC MODE                                          |
|         |     | .... ...1  |     | SVCSSES      | "X'01" Only applies to a subsystem screening table. Must be off for SVC entries. |
| 6       | (6) | SIGNED     | 2   | SVCLOCKS     | LOCK ATTRIBUTES                                                                  |
|         |     | 1... ....  |     | SVCLL        | "X'80" LOCAL LOCK NEEDED                                                         |
|         |     | .1.. ....  |     | SVCCMS       | "X'40" CMS LOCK NEEDED                                                           |
|         |     | ..1. ....  |     | SVCOPT       | "X'20" OPT LOCK NEEDED                                                           |
|         |     | ...1 ....  |     | SVCALLOC     | "X'10" SALLOC LOCK NEEDED                                                        |
|         |     | .... 1...  |     | SVCDISP      | "X'08" DISP LOCK NEEDED                                                          |

## SVCTABLE Cross Reference

| Offsets                     |     |            |     |            |                                                       |
|-----------------------------|-----|------------|-----|------------|-------------------------------------------------------|
| Dec                         | Hex | Type/Value | Len | Name (Dim) | Description                                           |
| Comment                     |     |            |     |            |                                                       |
| MAPPING FOR ESR TABLE ENTRY |     |            |     |            |                                                       |
| End of Comment              |     |            |     |            |                                                       |
| 6                           | (6) | X'0'       | 0   | SVCESRAD   | "SVCEP,4" ADDRESS OF ESR TABLE IF SVCESR IS ON        |
| 6                           | (6) | X'4'       | 0   | SVCESRMX   | "SVCATTR1,4" MAXIMUM ESR NUMBER SUPPORTED BY THIS ESR |

| Offsets |      |            |     |             |                                                                                                                               |
|---------|------|------------|-----|-------------|-------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)  | Description                                                                                                                   |
| 0       | (0)  | STRUCTURE  | 0   | SVCURT      |                                                                                                                               |
| 0       | (0)  | DBL WORD   | 8   | (0)         |                                                                                                                               |
| 0       | (0)  | CHARACTER  | 24  | SVCURTE (0) | ENTRY FOR 1 SVC                                                                                                               |
| 0       | (0)  | SIGNED     | 4   | SVCURES (0) | UR table for ESR                                                                                                              |
| 0       | (0)  | CHARACTER  | 8   | SVCUROL     | OLD SVC TABLE ENTRY                                                                                                           |
| 8       | (8)  | SIGNED     | 4   | SVCURRET    | RETURN ADDRESS IN CALLER OF DYNAMIC SVC UPDATE SERVICE                                                                        |
| 12      | (C)  | SIGNED     | 4   | SVCURNEW    | NEW SVC ENTRY POINT ADDRESS IF THIS MATCHES SVCEP IN SVC TABLE ENTRY, THEN DATA REPRESENTS CHANGE DATA FOR THAT ENTRY         |
| 16      | (10) | SIGNED     | 4   | SVCURDAT    | CVTDATE FOR UPDATE                                                                                                            |
| 20      | (14) | SIGNED     | 2   | SVCURCNT    | COUNT OF UPDATES FOR SVC                                                                                                      |
| 22      | (16) | CHARACTER  | 2   | SVCURSX     | SUFFIX OF SYS1.PARMLIB MEM. CONTAINING SVCPARM STATEMENT IF REQUEST TO UPDATE SVC ENTRY WAS VIA IEASVCxx SYS1.PARMLIB MEMBERS |

## SVCTABLE Cross Reference

| Name     | Hex Offset | Hex Value | Name    | Hex Offset | Hex Value |
|----------|------------|-----------|---------|------------|-----------|
| SVCALLOC | 6          | 10        | SVCURSX | 16         |           |
| SVCAMODE | 0          | 80        | SVCURT  | 0          |           |
| SVCAPF   | 4          | 8         | SVCURTE | 0          |           |
| SVCAR    | 5          | 80        |         |            |           |
| SVCASF   | 4          | 1         |         |            |           |
| SVCATTR1 | 4          |           |         |            |           |
| SVCATTR3 | 5          |           |         |            |           |
| SVCCMS   | 6          | 40        |         |            |           |
| SVCDISP  | 6          | 8         |         |            |           |
| SVCENTRY | 0          |           |         |            |           |
| SVCEP    | 0          |           |         |            |           |
| SVCESR   | 4          | 4         |         |            |           |
| SVCESRAD | 6          | 0         |         |            |           |
| SVCESRMX | 6          | 4         |         |            |           |
| SVCLL    | 6          | 80        |         |            |           |
| SVCLOCKS | 6          |           |         |            |           |
| SVCNP    | 4          | 2         |         |            |           |
| SVCOPT   | 6          | 20        |         |            |           |
| SVCSSSR  | 5          | 1         |         |            |           |
| SVCTP    | 4          |           |         |            |           |
| SVCTP1   | 4          | 0         |         |            |           |
| SVCTP2   | 4          | 80        |         |            |           |
| SVCTP34  | 4          | C0        |         |            |           |
| SVCTP6   | 4          | 20        |         |            |           |
| SVCURCNT | 14         |           |         |            |           |
| SVCURDAT | 10         |           |         |            |           |
| SVCURES  | 0          |           |         |            |           |
| SVCURNEW | C          |           |         |            |           |
| SVCUROL  | 0          |           |         |            |           |
| SVCURRET | 8          |           |         |            |           |



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## SVT Programming Interface information

Programming Interface information

### SVT

**ONLY** the following field is part of the programming interface information:

- SVTSSTSV

End of Programming Interface information

## SVT Heading Information

**Common Name:** Supervisor Vector Table  
**Macro ID:** IHASVT  
**DSECT Name:** SVT  
**Owning Component:** Supervisor Control (SC1C5)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Residency: Nucleus  
**Size:** Offset of SVTEND minus offset of SVT  
**Created by:** IEAVESVT  
**Pointed to by:** CVTSVT field of the CVT data area  
 PSASVT field of the PSA data area  
**Serialization:** SVTDSREQ - Dispatcher lock  
 SVTGSMQ, GSPL, LSMQ, SVTWAS - Compare & Swap  
 SVTDACTV - Disablement  
 SVTPWAIT - Disablement  
**Function:** Contains service routine addresses and control blocks used by Supervisor Control.

## SVT Map

| Offsets |      |            |     |              |                                                                                                                                           |
|---------|------|------------|-----|--------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                                               |
| 0       | (0)  | STRUCTURE  | 0   | SVT          |                                                                                                                                           |
| 0       | (0)  | ADDRESS    | 4   | SVTISECT     | "V(IEAVEINT)" ADDRESS OF INTERSECT ROUTINE                                                                                                |
| 4       | (4)  | ADDRESS    | 4   | SVTGSC1      | "V(IEAVESC3)" ADDRESS OF GLOBAL SCHEDULE ROUTINE FOR ENABLED USERS                                                                        |
| 8       | (8)  | ADDRESS    | 4   | SVTGSC2      | "V(IEAVESC4)" ADDRESS OF GLOBAL SCHEDULE ROUTINE FOR DISABLED USERS                                                                       |
| 12      | (C)  | BITSTRING  | 4   | SVTR00C      | Reserved. SERIALIZATION: None OWNERSHIP: Supervisor Control                                                                               |
| 16      | (10) | ADDRESS    | 4   | SVTWEEF      | Address of the first WEB Extent Element Pool. SERIALIZATION: Compare and Swap or Global Recovery protocols. OWNERSHIP: Supervisor Control |
| 20      | (14) | ADDRESS    | 4   | SVTRSCS      | "V(IEAVRSCS)" RESUME CONDITIONAL ENTRY PT                                                                                                 |
| 24      | (18) | SIGNED     | 4   | SVTJSTEQ     | JOB STEP TIME EXCEEDED QUE                                                                                                                |
| 28      | (1C) | SIGNED     | 4   | SVTDSREQ (0) | DISPATCHER SERIALIZATION REQUIRED                                                                                                         |
| 28      | (1C) | BITSTRING  | 1   | SVTSRQ1      | FIRST BYTE OF SVTDSREQ                                                                                                                    |
|         |      | 1.. ..     |     | SVTDSG4      | "X'80" SIGNAL WAITING PROCESSORS                                                                                                          |
|         |      | .1.. ..    |     | SVTDFLT      | "X'40" DEFAULT GLOBAL INTERSECT                                                                                                           |
| 29      | (1D) | BITSTRING  | 1   | SVTSRQ2      | SECOND BYTE OF SVTDSREQ                                                                                                                   |
|         |      | 1.. ..     |     | SVTDSG3      | "X'80" SIGNAL WAITING PROCESSORS                                                                                                          |
|         |      | .... ..1.  |     | SVTSRM1      | "X'02" SRM IS INTERSECTING                                                                                                                |
|         |      | .... ..1   |     | SVTQVER      | "X'01" Q VERIFICATION INTERSECTING                                                                                                        |
| 30      | (1E) | BITSTRING  | 1   | SVTSRQ3      | THIRD BYTE OF SVTDSREQ                                                                                                                    |
|         |      | 1.. ..     |     | SVTDSG2      | "X'80" SIGNAL WAITING PROCESSORS                                                                                                          |
|         |      | .1.. ..    |     | SVTRCTI      | "X'40" RCT INTERSECTING                                                                                                                   |
|         |      | .1. ....   |     | SVTTCBV      | "X'20" TCB VERIFICATION INTERSECTING                                                                                                      |
|         |      | ..1 ....   |     | SVTACHA      | "X'10" ASCB CHAP INTERSECTING                                                                                                             |
|         |      | .... ..1.. |     | SVTMTER      | "X'04" MEMTERM INTERSECTING                                                                                                               |
|         |      | .... ..1.  |     | SVTMINI      | "X'02" MEMORY INIT INTERSECTING                                                                                                           |
|         |      | .... ..1   |     | SVTCBVE      | "X'01" CONTROL BLOCK VERIFICATION INTER                                                                                                   |
| 31      | (1F) | BITSTRING  | 1   | SVTSRQ4      | FOURTH BYTE OF SVTDSREQ                                                                                                                   |
|         |      | 1.. ..     |     | SVTDSG1      | "X'80" SIGNAL WAITING WAITING PROCESSORS                                                                                                  |
|         |      | .1.. ..    |     | SVTDETA      | "X'40" DETACH INTERSECTING                                                                                                                |
|         |      | ..1. ....  |     | SVTATTA      | "X'20" ATTACH INTERSECTING                                                                                                                |
|         |      | ..1 ....   |     | SVTRTM2      | "X'10" RTM2 INTERSECTING                                                                                                                  |
|         |      | .... 1..   |     | SVTRTM1      | "X'08" RTM1 INTERSECTING                                                                                                                  |
|         |      | .... ..1.. |     | SVTCHAP      | "X'04" TCB CHAP INTERSECTING                                                                                                              |
|         |      | .... ..1.  |     | SVTSTAT      | "X'02" STATUS INTERSECTING                                                                                                                |
|         |      | .... ..1   |     | SVTPURD      | "X'01" PURGE DQ INTERSECTING                                                                                                              |

| Offsets |      |            |     |               |                                                                                                                                     |  |
|---------|------|------------|-----|---------------|-------------------------------------------------------------------------------------------------------------------------------------|--|
| Dec     | Hex  | Type/Value | Len | Name (Dim)    | Description                                                                                                                         |  |
| 32      | (20) | DBL WORD   | 8   | SVTGSRB (0)   | GLOBAL SRB QUEUES                                                                                                                   |  |
| 32      | (20) | SIGNED     | 4   | SVTGSMQ       | GLOBAL SERVICE MANAGEMENT QUEUE                                                                                                     |  |
| 36      | (24) | BITSTRING  | 4   | SVTGSPL       | No longer used. Must remain x'FFFFFFF'.<br>SERIALIZATION: None<br>OWNERSHIP: Supervisor Control                                     |  |
| 40      | (28) | SIGNED     | 4   | SVTLSMQ       | LOCAL SERVICE MANAGEMENT QUEUE                                                                                                      |  |
| 44      | (2C) | SIGNED     | 4   | SVTWAS (0)    | WAIT ADDRESS SPACE VECTOR USED TO SIGP MEMORY SWITCH TO WAITING PROCESSOR                                                           |  |
| 44      | (2C) | SIGNED     | 4   | SVTWAS00 (16) | WASV                                                                                                                                |  |
| 108     | (6C) | SIGNED     | 4   | (0)           |                                                                                                                                     |  |
| 108     | (6C) | BITSTRING  | 4   |               | PREVIOUSLY SVTDACTV - MUST ALWAYS REMAIN NONZERO                                                                                    |  |
| 112     | (70) | SIGNED     | 2   | SVTAPCP       | Initial value for the number of WEBs that must be on a WUQ as a gating factor for AWM SIGP<br>SERIALIZATION: NONE<br>OWNERSHIP: SRM |  |
| 114     | (72) | BITSTRING  | 1   | SVTLASTS      | Last CP signalled for alternate wait management                                                                                     |  |
| 115     | (73) | BITSTRING  | 5   | SVTR073       | RESERVED.                                                                                                                           |  |
| 120     | (78) | ADDRESS    | 4   | SVTCRSCR      | "V(IEAVCRSC)" Address of the Supervisor Checkpoint/Restart SRB Check Routine.                                                       |  |
| 124     | (7C) | BITSTRING  | 4   |               | PREVIOUSLY SVTPWAIT - MUST ALWAYS REMAIN NONZERO                                                                                    |  |
| 128     | (80) | SIGNED     | 4   | SVTWPSCT      | - Count of SIGPs to waiting processors due to timeout between waits<br>SERIALIZATION: NONE                                          |  |
| 132     | (84) | SIGNED     | 4   | SVTMSWCT      | - Count of SIGPs to waiting processors due to WUQADD<br>SERIALIZATION: NONE                                                         |  |
| 136     | (88) | ADDRESS    | 4   | SVTACTR       | "V(IEAVRT05)" ADDRESS OF ACCUMULATED CPU TIME SERVICE ROUTINE USED BY TIMEUSED MACRO                                                |  |
| 140     | (8C) | ADDRESS    | 4   | SVTISECR      | "V(IEAVEINR)" INTERSECT RESET ROUTINE                                                                                               |  |
| 144     | (90) | SIGNED     | 4   | SVTXASCB      | ADDRESS OF PC/AUTH ASCB.                                                                                                            |  |
| 148     | (94) | SIGNED     | 4   | SVTXMD        | ADDRESS OF CROSS MEMORY DIRECTORY (XMD) (IN PC/AUTH ADDRESS SPACE).                                                                 |  |
| 152     | (98) | ADDRESS    | 4   | SVTGSPH       | "V(IEASTKH)" ADDRESS OF GLOBAL STACK POOL HEADER FOR PCLINK SERVICE.                                                                |  |
| 156     | (9C) | SIGNED     | 2   | SVTMCADS      | MAXIMUM NUMBER OF ALE SLOTS IN A PASN ACCESS LIST RESERVED FOR CADs. INITIALIZED TO 25. MAY BE CHANGED BY IEAVNP09.                 |  |
| 158     | (9E) | SIGNED     | 2   | SVTMPALE      | NUMBER OF NON-CADs PASN ACCESS LIST ENTRIES. INITIALIZED BY IEAVNP09.                                                               |  |
| 160     | (A0) | ADDRESS    | 4   | SVTBBER       | "V(IEAVEBBR)" ADDRESS OF THE BIND BREAK ROUTINE.                                                                                    |  |
| 164     | (A4) | ADDRESS    | 4   | SVTLASCB      | ADDRESS OF LOCASCB SERVICE ROUTINE.                                                                                                 |  |
| 168     | (A8) | BITSTRING  | 4   | SVTCMCKM      | CMSET CONSTANT FOR ICMA CHECK.                                                                                                      |  |
| 172     | (AC) | ADDRESS    | 4   | SVTCMST1      | ADDRESS OF CMSET SET ROUTINE.                                                                                                       |  |
| 176     | (B0) | ADDRESS    | 4   | SVTCMRT1      | ADDRESS OF CMSET RESET, CHKAUTH=YES ROUTINE.                                                                                        |  |
| 180     | (B4) | ADDRESS    | 4   | SVTCMRT2      | ADDRESS OF CMSET RESET, CHKAUTH=NO ROUTINE.                                                                                         |  |
| 184     | (B8) | ADDRESS    | 4   | SVTCMSTR      | ADDRESS OF CMSET SSARTO ROUTINE.                                                                                                    |  |
| 188     | (BC) | ADDRESS    | 4   | SVTCMSBR      | ADDRESS OF CMSET SSARBACK ROUTINE.                                                                                                  |  |
| 192     | (C0) | ADDRESS    | 4   | SVTCDSPE      | ADDRESS OF CALLDISP ROUTINE FOR ENABLED CALLERS.                                                                                    |  |
| 196     | (C4) | ADDRESS    | 4   | SVTCDSPD      | ADDRESS OF CALLDISP ROUTINE FOR DISABLED CALLERS.                                                                                   |  |
| 200     | (C8) | ADDRESS    | 4   | SVTSRBSV      | "V(IEAVESTS)" ADDRESS OF SRBSTAT SAVE ROUTINE.                                                                                      |  |
| 204     | (CC) | ADDRESS    | 4   | SVTSRBRS      | "V(IEAVESTR)" ADDRESS OF SRBSTAT RESTORE ROUTINE.                                                                                   |  |
| 208     | (D0) | ADDRESS    | 4   | SVTAFFST      | "V(IEAVESAS)" ADDRESS OF SSAFF SET ROUTINE.                                                                                         |  |
| 212     | (D4) | ADDRESS    | 4   | SVTAFFOB      | "V(IEAVESAF)" ADDRESS OF SSAFF OBTAIN ROUTINE.                                                                                      |  |
| 216     | (D8) | ADDRESS    | 4   | SVTSRDBG      | "V(IEAVSPM1)" ADDRESS OF GETSRB ROUTINE.                                                                                            |  |
| 220     | (DC) | ADDRESS    | 4   | SVTSSRDBG     | "V(IEAVSPM2)" ADDRESS OF FREESSRB ROUTINE.                                                                                          |  |
| 224     | (E0) | ADDRESS    | 4   | SVTSRBF       | "V(IEAVSPM3)" ADDRESS OF GETESRB ROUTINE.                                                                                           |  |
| 228     | (E4) | ADDRESS    | 4   | SVTSSRBF      | "V(IEAVSPM4)" ADDRESS OF FREESSRB ROUTINE                                                                                           |  |
| 232     | (E8) | DBL WORD   | 8   | SVTSRBP (0)   | SUPERVISOR SRB POOL HEADER. SERIALIZATION - CDS.                                                                                    |  |
| 232     | (E8) | SIGNED     | 4   | SVTSRBS       | SRB POOL ELEMENT SYNC COUNT                                                                                                         |  |
| 236     | (EC) | SIGNED     | 4   | SVTSRBA       | ADDRESS OF FIRST AVAILABLE SRB.                                                                                                     |  |
| 240     | (F0) | SIGNED     | 4   | SVTSRBE (0)   | SRB POOL EXTENT COUNTS. SERIALIZATION - SALLOC.                                                                                     |  |
| 240     | (F0) | SIGNED     | 2   | SVTSRBM       | MAX SRB POOL EXTENTS.                                                                                                               |  |
| 242     | (F2) | SIGNED     | 2   | SVTSRBC       | CURRENT SRB POOL EXTENTS.                                                                                                           |  |

## SVT Map

| Offsets                                                                                                                                                                                                                                                                                                                                                                                   |       |            |     |              |                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|-----|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec                                                                                                                                                                                                                                                                                                                                                                                       | Hex   | Type/Value | Len | Name (Dim)   | Description                                                                                                                                                                                                                                                           |
| 244                                                                                                                                                                                                                                                                                                                                                                                       | (F4)  | SIGNED     | 4   | SVTR0F4      | Reserved. Formerly SVTSSRBE/M/C                                                                                                                                                                                                                                       |
| 248                                                                                                                                                                                                                                                                                                                                                                                       | (F8)  | BITSTRING  | 8   | SVTR0F8      | Reserved. Formerly SVTSSRBP/S/A                                                                                                                                                                                                                                       |
| 256                                                                                                                                                                                                                                                                                                                                                                                       | (100) | CHARACTER  | 4   | SVTSVT       | SVT ACRONYM.                                                                                                                                                                                                                                                          |
| 260                                                                                                                                                                                                                                                                                                                                                                                       | (104) | ADDRESS    | 4   | SVTRSUA      | "V(IEAVRSUA)" ADDRESS OF RESUME ROUTINE FOR ASYNCHRONOUS UNCONDITIONAL OPTION.                                                                                                                                                                                        |
| 264                                                                                                                                                                                                                                                                                                                                                                                       | (108) | ADDRESS    | 4   | SVTRSCA      | "V(IEAVRSCA)" ADDRESS OF RESUME ROUTINE FOR ASYNCHRONOUS CONDITIONAL OPTION.                                                                                                                                                                                          |
| 268                                                                                                                                                                                                                                                                                                                                                                                       | (10C) | ADDRESS    | 4   | SVTRSUS      | "V(IEAVRSUS)" ADDRESS OF RESUME ROUTINE FOR SYNCHRONOUS UNCONDITIONAL OPTION WITH ASCB SPECIFIED.                                                                                                                                                                     |
| 272                                                                                                                                                                                                                                                                                                                                                                                       | (110) | BITSTRING  | 4   | SVTDSBCT (0) | - MAXIMUM NUMBER OF WEBs the DISPATCHER CAN PROCESS BEFORE INVOKING RECOVERY.                                                                                                                                                                                         |
| Comment                                                                                                                                                                                                                                                                                                                                                                                   |       |            |     |              |                                                                                                                                                                                                                                                                       |
| <p>7FFF0026 is the initial value of SVTDSBCT, but will be replaced by the SRM RIM, during NIP. The low half of the value is an approximation of the number of instructions required during the dispatcher work search processing to look at one WEB from the WUQ. The high half of this value is used only until this value is replaced, and serves just to make this a large number.</p> |       |            |     |              |                                                                                                                                                                                                                                                                       |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                            |       |            |     |              |                                                                                                                                                                                                                                                                       |
| 272                                                                                                                                                                                                                                                                                                                                                                                       | (110) | BITSTRING  | 1   |              | -                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                           |       | 1... ....  |     | SVTCHKWP     | "X'80" CHECK WAITING PROCESSOR IF ON                                                                                                                                                                                                                                  |
| 273                                                                                                                                                                                                                                                                                                                                                                                       | (111) | BITSTRING  | 2   |              | -                                                                                                                                                                                                                                                                     |
| 275                                                                                                                                                                                                                                                                                                                                                                                       | (113) | BITSTRING  | 1   |              | -                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                           |       | .... ...1  |     | SVTAWM       | "X'01" ALTERNATE WAIT MANAGEMENT ENABLED FLAG (SVTDSBCT LOW BIT) SET BY SRM SERIALIZATION: NONE                                                                                                                                                                       |
| 276                                                                                                                                                                                                                                                                                                                                                                                       | (114) | BITSTRING  | 4   | SVTMCBCT     | - Maximum number of times to loop on a locked WEB before invoking Global Recovery. The last byte of this field should be equal to the number of instructions executed by the dispatcher in its worksearch loop used to lock a WEB. SERIALIZATION: None OWNERSHIP: SRM |
| 280                                                                                                                                                                                                                                                                                                                                                                                       | (118) | SIGNED     | 4   | SVTFW1 (0)   | FULLWORD SERIALIZED BY CS.                                                                                                                                                                                                                                            |
| 280                                                                                                                                                                                                                                                                                                                                                                                       | (118) | BITSTRING  | 1   | SVTCS1       | FIRST BYTE OF CS WORD.                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                           |       | 1... ....  |     | SVTXMSOP     | "X'80" PC/AUTH SERVICE ROUTINES OPERABLE.                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                           |       | .1. ....   |     | SVTXMSUP     | "X'40" PC/AUTH ADDRESS SPACE INITIALIZED.                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                           |       | ..1. ....  |     | SVTXMCMF     | "X'20" CROSS MEMORY CONNECTIONS MANAGER HAS FAILED. REUSABILITY FUNCTIONS ARE NOT OPERATIONAL. SERIALIZED BY PC/AUTH LOCAL LOCK. SET BY IEAVXMCM RECOVERY. 1                                                                                                          |
| 281                                                                                                                                                                                                                                                                                                                                                                                       | (119) | BITSTRING  | 3   | SVTR119      | RESERVED. SERIALIZATION - CS.                                                                                                                                                                                                                                         |
| 284                                                                                                                                                                                                                                                                                                                                                                                       | (11C) | ADDRESS    | 4   | SVTDSPC      | "V(IEAVDSPC)" ADDRESS OF DISPATCHER ENTRY POINT FOR STOP ROUTINE CALLERS.                                                                                                                                                                                             |
| 288                                                                                                                                                                                                                                                                                                                                                                                       | (120) | SIGNED     | 4   | SVTAFTFTR    | VIRTUAL ADDRESS OF ADDRESS SPACE FIRST TABLE (AFT) CONTAINING REAL ADDRESSES.                                                                                                                                                                                         |
| 292                                                                                                                                                                                                                                                                                                                                                                                       | (124) | SIGNED     | 4   | SVTAFTV      | VIRTUAL ADDRESS OF ADDRESS SPACE FIRST TABLE (AFT) CONTAINING VIRTUAL ADDRESSES.                                                                                                                                                                                      |
| 296                                                                                                                                                                                                                                                                                                                                                                                       | (128) | ADDRESS    | 4   | SVTSSEM      | "V(IEAVESSE)" ADDRESS OF SPACE SWITCH EVENT MANAGER.                                                                                                                                                                                                                  |
| 300                                                                                                                                                                                                                                                                                                                                                                                       | (12C) | ADDRESS    | 4   | SVTISSAT     | "V(IEAISSAT)" ADDRESS OF INITIAL SUBSYSTEM AFFINITY TABLE FOR ALL TASKS.                                                                                                                                                                                              |
| 304                                                                                                                                                                                                                                                                                                                                                                                       | (130) | SIGNED     | 4   | SVTSSTSV     | LENGTH REQUIRED FOR SRB STATUS SAVE AREA.                                                                                                                                                                                                                             |
| 308                                                                                                                                                                                                                                                                                                                                                                                       | (134) | SIGNED     | 4   | SVTWTSS      | Short wait time slice                                                                                                                                                                                                                                                 |
| 312                                                                                                                                                                                                                                                                                                                                                                                       | (138) | SIGNED     | 4   | SVTMDLQ      | MEMORY DELETE QUEUE HEADER FOR ASCBS THAT CANNOT BE FREED.                                                                                                                                                                                                            |
| 316                                                                                                                                                                                                                                                                                                                                                                                       | (13C) | SIGNED     | 4   | SVTSLWLN     | SLIP/PER WORK AREA LENGTH REQUIRED FOR EACH PROCESSOR                                                                                                                                                                                                                 |
| 320                                                                                                                                                                                                                                                                                                                                                                                       | (140) | ADDRESS    | 4   | SVTSRBMD     | "V(IEAVESTM)" ADDRESS OF SRBSTAT MODIFY ROUTINE.                                                                                                                                                                                                                      |
| 324                                                                                                                                                                                                                                                                                                                                                                                       | (144) | BITSTRING  | 2   | SVTR144      | RESERVED.                                                                                                                                                                                                                                                             |
| 326                                                                                                                                                                                                                                                                                                                                                                                       | (146) | SIGNED     | 2   | SVTNSLX      | NUMBER OF SYSTEM LXs BEYOND THE HIGHEST SYSTEM FUNCTION TABLE LX.                                                                                                                                                                                                     |

| Offsets |       |            |     |               |                                                                                                                                                                    |
|---------|-------|------------|-----|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim)    | Description                                                                                                                                                        |
| 328     | (148) | ADDRESS    | 4   | SVTSET1       | "V(IEAVSET1)" ADDRESS OF STATUS ENTRY POINT TO SIGPCPUS ROUTINE.                                                                                                   |
| 332     | (14C) | ADDRESS    | 4   | SVTISECG      | "V(IEAVEING)" ADDRESS OF INTERSECT GLOBAL ENTRY POINT                                                                                                              |
| 336     | (150) | ADDRESS    | 4   | SVTISECL      | "V(IEAVEINL)" ADDRESS OF INTERSECT LOCAL ENTRY POINT                                                                                                               |
| 340     | (154) | ADDRESS    | 4   | SVTSWUQ       | System WUQ (SWUQ) header address. INITIALIZED: IEAVINIT<br>SERIALIZATION: WEB Lock Protocol OWNERSHIP: Supervisor Control                                          |
| 344     | (158) | ADDRESS    | 4   | SVTCMST2      | Address of CMSET SET,DIE=YES routine.                                                                                                                              |
| 348     | (15C) | ADDRESS    | 4   | SVTBEST@      | Address of XES Back End Schedule Table (BEST).<br>SERIALIZATION: XES-determined protocol OWNERSHIP: XES                                                            |
| 352     | (160) | DBL WORD   | 8   | (0)           | INSURE DOUBLEWORD BDY                                                                                                                                              |
| 352     | (160) | BITSTRING  | 1   | SVTDACTV (16) | DISPATCHER ACTIVE INDICATOR                                                                                                                                        |
|         |       | .1.. ....  |     | SVTDLID       | "X'40" HIGH ORDER BIT OF PROCESSOR ID MAY BE CHECKED AS A FAST TEST OF DISPATCHER ACTIVE                                                                           |
|         |       | ..1. ....  |     | SVTDPRMT      | "X'20" TASK TIME SLICE FLAG 1=TASK TIME SLICE HAS EXPIRED BIT SET BY EXTERNAL FLIH AND RESET BY THE DISPATCHER                                                     |
|         |       | ...1 ....  |     | SVTDSCAN      | "X'10" WORK QUEUE RESCAN REQUIRED BIT IS SET AND RESET BY THE DISPATCHER ONLY WHILE ACTIVE IS ALREADY HELD.                                                        |
| 352     | (160) | X'160'     | 0   | SVTDACT1      | "SVTDACTV,16,C'X" REDEFINE SVTDACTV AS A SIXTEEN BYTE FIELD                                                                                                        |
| 368     | (170) | DBL WORD   | 8   | (0)           | INSURE DOUBLEWORD BDY                                                                                                                                              |
| 368     | (170) | BITSTRING  | 1   | SVTPWAIT (16) | PROCESSOR WAITING INDICATOR                                                                                                                                        |
|         |       | ..1. ....  |     | SVTPWTCK      | "X'20" WAIT TASK TIME SLICE FLAG 1=WAIT TASK TIME SLICE HAS EXPIRED BIT IS SET BY THE EXTERNAL FLIH AND RESET BY THE DISPATCHER VIA A MOVE IMMEDIATE INSTRUCTION   |
|         |       | ...1 ....  |     | SVTPWSTS      | "X'10" WAIT TASK TIME SLICE FLAG 1=WAIT TASK TIME SLICE WAS A SHORT ONE. BIT IS SET BY THE DISPATCHER AND RESET BY THE DISPATCHER VIA A MOVE IMMEDIATE INSTRUCTION |
| 368     | (170) | X'170'     | 0   | SVTPWAT1      | "SVTPWAIT,16,C'X" REDEFINE SVTPWAIT AS A SIXTEEN BYTE FIELD                                                                                                        |
| 384     | (180) | SIGNED     | 4   | SVTWPBM       | WAITING PROCESSOR BIT MASK, BIT POSITION CORRESPONDS TO CPU ID. LOW ORDER HALF WORD MUST BE ZERO OWNERSHIP - SUPERVISOR CONTROL SERIALIZATION - COMPARE AND SWAP   |
| 388     | (184) | SIGNED     | 4   | SVTSNCT2      | COUNT OF THE NUMBER OF ASCBS SAFETY NET ADDED TO TRQ WITH ASCBSSSS ON                                                                                              |
| 392     | (188) | ADDRESS    | 4   | SVTCMRT3      | Address of CMSET RESET, CHKAUTH=YES,DIE=YES routine.                                                                                                               |
| 396     | (18C) | ADDRESS    | 4   | SVTCMRT4      | Address of CMSET RESET, CHKAUTH=NO,DIE=YES routine.                                                                                                                |
| 400     | (190) | ADDRESS    | 4   | SVTSUSC       | "V(IEAVSUSC)" GENERALIZED STOP ENTRY POINT ADDRESS                                                                                                                 |
| 404     | (194) | ADDRESS    | 4   | SVTRSTC       | "V(IEAVRSTC)" GENERALIZED RESET ENTRY POINT ADDRESS                                                                                                                |
| 408     | (198) | ADDRESS    | 4   | SVTCBLS       | "V(IEAVCBLS)" ADDRESS OF CONTROL BLOCK LENGTH TABLE. OWNERSHIP - SUPERVISOR CONTROL SERIALIZATION - N/A                                                            |
| 412     | (19C) | SIGNED     | 4   | SVTSNCNT      | COUNT OF THE NUMBER ASCBS SAFETY NET ADDED TO TRQ                                                                                                                  |
| 416     | (1A0) | BITSTRING  | 1   | SVTSPCP (16)  | CPUS CAUSING EXCESSIVE SPIN. OWNERSHIP - RECONFIGURATION SERIALIZATION - DISABLEMENT                                                                               |
| 432     | (1B0) | ADDRESS    | 4   | SVTLSLO       | "V(IEAVLSLO)" ADDRESS OF THE LINKAGE STACK MANAGER LOCAL OBTAIN ROUTINE.                                                                                           |
| 436     | (1B4) | ADDRESS    | 4   | SVTLSLR       | "V(IEAVLSLR)" ADDRESS OF THE LINKAGE STACK MANAGER LOCAL RETURN ROUTINE.                                                                                           |
| 440     | (1B8) | ADDRESS    | 4   | SVTLSGO       | "V(IEAVLSGO)" ADDRESS OF THE LINKAGE STACK MANAGER GLOBAL OBTAIN ROUTINE.                                                                                          |
| 444     | (1BC) | ADDRESS    | 4   | SVTLSGR       | "V(IEAVLSGR)" ADDRESS OF THE LINKAGE STACK MANAGER GLOBAL RETURN ROUTINE.                                                                                          |
| 448     | (1C0) | BITSTRING  | 4   | SVTR1C0       | RESERVED                                                                                                                                                           |

## SVT Map

| Offsets |       |            |     |             |                                                                                                                                                                                 |
|---------|-------|------------|-----|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim)  | Description                                                                                                                                                                     |
| 452     | (1C4) | ADDRESS    | 4   | SVTLSIO     | "V(IEAVLSIO)" ADDRESS OF THE LINKAGE STACK MANAGER INTERRUPT HANDLER LS OBTAIN ROUTINE.                                                                                         |
| 456     | (1C8) | ADDRESS    | 4   | SVTLSIR     | "V(IEAVLSIR)" ADDRESS OF THE LINKAGE STACK MANAGER INTERRUPT HANDLER LS RETURN ROUTINE.                                                                                         |
| 460     | (1CC) | BITSTRING  | 4   | SVTR1CC     | RESERVED                                                                                                                                                                        |
| 464     | (1D0) | DBL WORD   | 8   | SVTGLAL (0) | GLOBAL ACCESS LIST POOL HEADER - SERIALIZATION CDS.                                                                                                                             |
| 464     | (1D0) | ADDRESS    | 4   | SVTGLALP    | ADDRESS OF FIRST AVAILABLE GLOBAL POOL ACCESS LIST.                                                                                                                             |
| 468     | (1D4) | SIGNED     | 4   | SVTGALPS    | SYNC COUNT FIELD FOR COMPARE DOUBLE AND SWAP OF SVTGLALP.                                                                                                                       |
| 472     | (1D8) | BITSTRING  | 4   | SVTGLPMX    | MAXIMUM NUMBER OF BYTES BY WHICH GLOBAL ACCESS LIST POOL MAY BE EXPANDED.                                                                                                       |
| 476     | (1DC) | ADDRESS    | 4   | SVTXAPM1    | "V(IEAVXAPM)" ADDRESS OF ACCESS LIST POOL MANAGER EXPAND (IEAVXAPM) SERVICE.                                                                                                    |
| 480     | (1E0) | ADDRESS    | 4   | SVTXAPM2    | "V(IEAVXAP2)" ADDRESS OF ACCESS LIST POOL MANAGER RETURN (IEAVXAP2) SERVICE.                                                                                                    |
| 484     | (1E4) | ADDRESS    | 4   | SVTINIT     | "V(IEAVINIT)" ADDRESS OF IEAVINIT.                                                                                                                                              |
| 488     | (1E8) | ADDRESS    | 4   | SVTXAACR    | "V(IEAVXAAC)" ADDRESS OF ALET TO ASCB CONVERSION ROUTINE (IEAVXAAC).                                                                                                            |
| 492     | (1EC) | ADDRESS    | 4   | SVTOENTY    | ORIGIN OF THE ASVT ENTRY TABLE OF ASCB'S.                                                                                                                                       |
| 496     | (1F0) | ADDRESS    | 4   | SVTSTKN     | ADDRESS OF THE STKN TABLE.                                                                                                                                                      |
| 500     | (1F4) | ADDRESS    | 4   | SVTSTKNE    | LAST ENTRY OF STKN TABLE.                                                                                                                                                       |
| 504     | (1F8) | SIGNED     | 4   | SVTMEOUT    | SYSTEM SPIN LOOP TIMEOUT VALUE IN SECONDS, INITIALIZED BY IEEVESAI                                                                                                              |
| 508     | (1FC) | ADDRESS    | 4   | SVTNALD     | NULL ACCESS LIST REAL ADDRESS AND LENGTH. BITS 0-25 WITH SIX ZEROS APPENDED ON THE RIGHT FORM THE ADDRESS. BITS 26-31 REPRESENT THE NUMBER OF 128 BYTE ACCESS LISTS, MINUS ONE. |
| 512     | (200) | ADDRESS    | 4   | SVTNALV     | NULL ACCESS LIST VIRTUAL ADDRESS.                                                                                                                                               |
| 516     | (204) | ADDRESS    | 4   | SVTDS0E1    | ADDRESS OF DISPATCHER DIAGNOSTIC EXIT-1 (GIVEN CONTROL FOR UNLOCKED TASK DISPATCHES).                                                                                           |
| 520     | (208) | ADDRESS    | 4   | SVTDS0E2    | ADDRESS OF DISPATCHER DIAGNOSTIC EXIT-2 (GIVEN CONTROL FOR LOCKED TASK DISPATCHES).                                                                                             |
| 524     | (20C) | ADDRESS    | 4   | SVTDS0E3    | ADDRESS OF DISPATCHER DIAGNOSTIC EXIT-3 (GIVEN CONTROL FOR SRB DISPATCHES).                                                                                                     |
| 528     | (210) | ADDRESS    | 4   | SVTDS0E4    | ADDRESS OF DISPATCHER DIAGNOSTIC EXIT-4 (GIVEN CONTROL FOR SSRB DISPATCHES).                                                                                                    |
| 532     | (214) | ADDRESS    | 4   | SVTDS0E5    | ADDRESS OF DISPATCHER DIAGNOSTIC EXIT-5 (GIVEN CONTROL FOR WAIT TASK DISPATCHES).                                                                                               |
| 536     | (218) | ADDRESS    | 4   | SVTASECT    | ADDRESS OF THE ASE CONTROL TABLE.                                                                                                                                               |
| 540     | (21C) | ADDRESS    | 4   | SVTEXP3     | "V(IEAVEXP3)" ADDRESS OF IEAVEXP3 SUBROUTINE IN EXIT PROLOGUE (LSED COMPARISON ROUTINE).                                                                                        |
| 544     | (220) | ADDRESS    | 4   | SVTEMRQ     | "V(IEAVEMRQ)" ADDRESS OF MEMORY REQUEST                                                                                                                                         |
| 548     | (224) | ADDRESS    | 4   | SVTLSCO     | "V(IEAVLSCO)" ADDRESS OF LS CONSTANTS TABLE                                                                                                                                     |
| 552     | (228) | ADDRESS    | 4   | SVTLSLC     | "V(IEAVLSLC)" ADDRESS OF THE LINKAGE STACK LOCATE SERVICE ROUTINE.                                                                                                              |
| 556     | (22C) | ADDRESS    | 4   | SVTNLSSD    | "V(IEAVNLSD)" ADDRESS OF NULL LS LSSD                                                                                                                                           |
| 560     | (230) | ADDRESS    | 4   | SVTNLSDP    | "V(IEAVNLSP)" ADDRESS OF NULL LS LSED                                                                                                                                           |
| 564     | (234) | ADDRESS    | 4   | SVTQV4      | "V(IEAVEQV4)" ADDRESS OF SINGLE SPACE DOUBLE LINKED QUEUE VERIFICATION ROUTINE.                                                                                                 |
| 568     | (238) | ADDRESS    | 4   | SVTQV5      | "V(IEAVEQV5)" ADDRESS OF MULTIPLE SPACE DOUBLE LINKED QUEUE VERIFICATION ROUTINE.                                                                                               |
| 572     | (23C) | ADDRESS    | 4   | SVTCASTE    | VIRTUAL ADDRESS OF THE BLOCK OF CADS ASTES. INITIALIZED BY IEAVNP09.                                                                                                            |
| 576     | (240) | ADDRESS    | 4   | SVTGSCH9    | "V(IEAVESC9)" ADDRESS OF GLOBAL SCHEDULE WITH STOKEN ENTRY POINT FOR ENABLED CALLERS.                                                                                           |
| 580     | (244) | ADDRESS    | 4   | SVTGSCHA    | "V(IEAVESCA)" ADDRESS OF GLOBAL SCHEDULE WITH STOKEN ENTRY POINT FOR DISABLED CALLERS.                                                                                          |
| 584     | (248) | ADDRESS    | 4   | SVTLSCHB    | "V(IEAVESCB)" ADDRESS OF LOCAL SCHEDULE WITH STOKEN ENTRY POINT FOR ENABLED CALLERS.                                                                                            |
| 588     | (24C) | ADDRESS    | 4   | SVTLSCHC    | "V(IEAVESCC)" ADDRESS OF LOCAL SCHEDULE WITH STOKEN ENTRY POINT FOR DISABLED CALLERS.                                                                                           |

| Offsets |       |            |     |            |                                                                                                                                                |
|---------|-------|------------|-----|------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim) | Description                                                                                                                                    |
| 592     | (250) | ADDRESS    | 4   | SVTQV6     | "V(IEAVEQV6)" ADDRESS OF THE SINGLE SPACE SINGLE LINKED QUEUE VERIFICATION ROUTINE.                                                            |
| 596     | (254) | ADDRESS    | 4   | SVTESCD    | "V(IEAVESCD)" ADDRESS OF IEAVESCD, THE NEW SCHEDULE ENTRY POINT FOR FEATURE (ENABLED GLOBAL).                                                  |
| 600     | (258) | ADDRESS    | 4   | SVTESCE    | "V(IEAVESCE)" ADDRESS OF IEAVESCE, THE NEW SCHEDULE ENTRY POINT FOR FEATURE (DISABLED GLOBAL).                                                 |
| 604     | (25C) | ADDRESS    | 4   | SVTESCF    | "V(IEAVESCF)" ADDRESS OF IEAVESCF, THE NEW SCHEDULE ENTRY POINT FOR FEATURE (ENABLED LOCAL).                                                   |
| 608     | (260) | ADDRESS    | 4   | SVTESCG    | "V(IEAVESCG)" ADDRESS OF IEAVESCG, THE NEW SCHEDULE ENTRY POINT FOR FEATURE (DISABLED LOCAL).                                                  |
| 612     | (264) | ADDRESS    | 4   | SVTCPUF    | "V(IEAVCPUF)" - ADDRESS OF IEAMCPUF SERVICE ROUTINE (IEAVCPUF). OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: NONE.                            |
| 616     | (268) | ADDRESS    | 4   | SVTERMF    | "V(IEAVERMF)" - ADDRESS OF IEAMRMF3 SERVICE ROUTINE (IEAVERMF). OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: NONE.                            |
| 620     | (26C) | ADDRESS    | 4   | SVTEFCN    | "V(IEAVEFCN)" - ADDRESS OF IEAMFCNT SERVICE ROUTINE (IEAVEFCN). OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: NONE.                            |
| 624     | (270) | ADDRESS    | 4   | SVTTWRM    | "V(IEAVTWRM)" - ADDRESS OF THE TAWQ WEB ADDRESS SPACE RESOURCE MANAGER ROUTINE (IEAVTWRM). OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: NONE. |
| 628     | (274) | ADDRESS    | 4   | SVTCPTM    | Count down timer start value 4096 for bit 51, 4K mics = 4 ms                                                                                   |
| 632     | (278) | ADDRESS    | 4   | SVTTODDL   | TOD time to check for SIGP                                                                                                                     |
| 636     | (27C) | SIGNED     | 4   | SVTTODST   | TOD time stamp last check                                                                                                                      |
| 640     | (280) | DBL WORD   | 8   | SVTEND (0) | END OF SVT.                                                                                                                                    |

## SVT Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| SVT      | 0          |           | SVTCMST2 | 158        |           |
| SVTACHA  | 1E         | 10        | SVTCPTM  | 274        |           |
| SVTACTR  | 88         |           | SVTCPUF  | 264        |           |
| SVTAFFOB | D4         |           | SVTCRSCR | 78         |           |
| SVTAFFST | D0         |           | SVTCS1   | 118        | 0         |
| SVTAFTR  | 120        | 0         | SVTDACTV | 160        | 0         |
| SVTAFTV  | 124        | 0         | SVTDACT1 | 160        | 160       |
| SVTAPCP  | 70         | 4         | SVTDETA  | 1F         | 40        |
| SVTASECT | 218        |           | SVTDFLT  | 1C         | 40        |
| SVTATTA  | 1F         | 20        | SVTDLID  | 160        | 40        |
| SVTAWM   | 113        | 1         | SVTDPRMT | 160        | 20        |
| SVTBBER  | A0         |           | SVTDSBCT | 110        |           |
| SVTBEST@ | 15C        |           | SVTDSCAN | 160        | 10        |
| SVTCASTE | 23C        |           | SVTDSG1  | 1F         | 80        |
| SVTCBLS  | 198        |           | SVTDSG2  | 1E         | 80        |
| SVTCBVE  | 1E         | 1         | SVTDSG3  | 1D         | 80        |
| SVTCDSPD | C4         |           | SVTDSG4  | 1C         | 80        |
| SVTCDSPD | C0         |           | SVTDSPC  | 11C        |           |
| SVTCHAP  | 1F         | 4         | SVTDSREQ | 1C         |           |
| SVTCHKWP | 110        | 80        | SVTDS0E1 | 204        |           |
| SVTCMCKM | A8         | 80000000  | SVTDS0E2 | 208        |           |
| SVTCMRT1 | B0         |           | SVTDS0E3 | 20C        |           |
| SVTCMRT2 | B4         |           | SVTDS0E4 | 210        |           |
| SVTCMRT3 | 188        |           | SVTDS0E5 | 214        |           |
| SVTCMRT4 | 18C        |           | SVTEFCN  | 26C        |           |
| SVTCMSBR | BC         |           | SVTEMRQ  | 220        |           |
| SVTCMSTR | B8         |           | SVTEND   | 280        |           |
| SVTCMST1 | AC         |           | SVTERMF  | 268        |           |

## SVT Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| SVTESCD  | 254        |           | SVTRSUA  | 104        |           |
| SVTESCE  | 258        |           | SVTRSUS  | 10C        |           |
| SVTESCF  | 25C        |           | SVTRTM1  | 1F         | 8         |
| SVTESCG  | 260        |           | SVTRTM2  | 1F         | 10        |
| SVTEXP3  | 21C        |           | SVTR0F4  | F4         | 0         |
| SVTFW1   | 118        |           | SVTR0F8  | F8         | 0         |
| SVTGALPS | 1D4        | 0         | SVTR00C  | C          | 0         |
| SVTGLAL  | 1D0        |           | SVTR073  | 73         | 0         |
| SVTGLALP | 1D0        |           | SVTR1CC  | 1CC        | 0         |
| SVTGLPMX | 1D8        | C00       | SVTR1C0  | 1C0        | 0         |
| SVTGSCHA | 244        |           | SVTR119  | 119        | 0         |
| SVTGSCH1 | 4          |           | SVTR144  | 144        | 0         |
| SVTGSCH2 | 8          |           | SVTSET1  | 148        |           |
| SVTGSCH9 | 240        |           | SVTSLWLN | 13C        | 0         |
| SVTGSMQ  | 20         | 0         | SVTSNCNT | 19C        | 0         |
| SVTGSPH  | 98         |           | SVTSNCT2 | 184        | 0         |
| SVTGSPPL | 24         | FFFFFFFF  | SVTSPCP  | 1A0        | 0         |
| SVTGSRB  | 20         |           | SVTSRBA  | EC         | 0         |
| SVTINIT  | 1E4        |           | SVTSRBC  | F2         | 0         |
| SVTISECG | 14C        |           | SVTSRBE  | F0         |           |
| SVTISECL | 150        |           | SVTSRBF  | E0         |           |
| SVTISECR | 8C         |           | SVTSRBG  | D8         |           |
| SVTISECT | 0          |           | SVTSRBM  | F0         | 3         |
| SVTISSAT | 12C        |           | SVTSRBMD | 140        |           |
| SVTJSTEQ | 18         | 0         | SVTSRBP  | E8         |           |
| SVTLASCB | A4         |           | SVTSRBR5 | CC         |           |
| SVTLASTS | 72         | 0         | SVTSRBS  | E8         | 0         |
| SVTLSCHB | 248        |           | SVTSRBSV | C8         |           |
| SVTLSCHC | 24C        |           | SVTSRM1  | 1D         | 2         |
| SVTLSCO  | 224        |           | SVTSRQ1  | 1C         | 0         |
| SVTLSGO  | 1B8        |           | SVTSRQ2  | 1D         | 0         |
| SVTLSGR  | 1BC        |           | SVTSRQ3  | 1E         | 0         |
| SVTLSIO  | 1C4        |           | SVTSRQ4  | 1F         | 0         |
| SVTLSIR  | 1C8        |           | SVTSSEM  | 128        |           |
| SVTLSLC  | 228        |           | SVTSSRBF | E4         |           |
| SVTL5LO  | 1B0        |           | SVTSSRBG | DC         |           |
| SVTL5LR  | 1B4        |           | SVTSSTSV | 130        | 510       |
| SVTL5MQ  | 28         | 0         | SVTSTAT  | 1F         | 2         |
| SVTMCADS | 9C         | 19        | SVTSTKN  | 1F0        |           |
| SVTMCBCT | 114        | 7FFF0003  | SVTSTKNE | 1F4        |           |
| SVTMDLQ  | 138        | 0         | SVTSUSC  | 190        |           |
| SVTMEOUT | 1F8        | 0         | SVTSVT   | 100        | E2E5E340  |
| SVTMINI  | 1E         | 2         | SVTSWUQ  | 154        |           |
| SVTMPALE | 9E         | 0         | SVTTCBV  | 1E         | 20        |
| SVTMSWCT | 84         | 0         | SVTTODDL | 278        |           |
| SVTMTER  | 1E         | 4         | SVTTODST | 27C        | 0         |
| SVTNALD  | 1FC        |           | SVTTWRM  | 270        |           |
| SVTNALV  | 200        |           | SVTWAS   | 2C         |           |
| SVTNLSDP | 230        |           | SVTWAS00 | 2C         | 0         |
| SVTNLSSD | 22C        |           | SVTWEEF  | 10         |           |
| SVTN5LX  | 146        | A5        | SVTW5PBM | 180        | 0         |
| SVTOENTY | 1EC        |           | SVTW5PCT | 80         | 0         |
| SVTPURD  | 1F         | 1         | SVTWTSS  | 134        | 0         |
| SVTPWAIT | 170        | 0         | SVTXAACR | 1E8        |           |
| SVTPWAT1 | 170        | 170       | SVTXAPM1 | 1DC        |           |
| SVTPWSTS | 170        | 10        | SVTXAPM2 | 1E0        |           |
| SVTPWTCK | 170        | 20        | SVTXASCB | 90         | 0         |
| SVTQVER  | 1D         | 1         | SVTXMCMF | 118        | 20        |
| SVTQV4   | 234        |           | SVTXMD   | 94         | 0         |
| SVTQV5   | 238        |           | SVTXMSOP | 118        | 80        |
| SVTQV6   | 250        |           | SVTXMSUP | 118        | 40        |
| SVTRCTI  | 1E         | 40        |          |            |           |
| SVTRSCA  | 108        |           |          |            |           |
| SVTRSCS  | 14         |           |          |            |           |
| SVTRSTC  | 194        |           |          |            |           |



## SXT Heading Information

**Common Name:** VSM Cell Pool Secondary Extent  
**Macro ID:** IGVSXT  
**DSECT Name:** SXT  
**Owning Component:** Virtual Storage Manager (SC1CH)  
**Subpool and Key:** User supplied  
**Size:** 24 bytes  
**Created by:** IGVCPBLD and IGVCPEXT  
**Pointed to by:** SPDSXT  
**Serialization:** LOCAL/CML lock for local cell pools  
 VSMPAG for pageable global cell pools  
 VSMFIX for fixed global cell pools  
**Function:** Describes the secondary cell pool extent.

### SXT Map

| Offsets |      |            |     |            |                      |
|---------|------|------------|-----|------------|----------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description          |
| 0       | (0)  | STRUCTURE  | *   | SXT        |                      |
| 0       | (0)  | CHARACTER  | 24  | SXTHDR     | USER SUPPLIED HEADER |
| 24      | (18) | CHARACTER  | *   | SXTPOOL    | POOL CELLS           |



## SYMPQ Heading Information

**Common Name:** DAE Symptom Queue Element  
**Macro ID:** ADYSYMP  
**DSECT Name:** SYMPQ  
**Owning Component:** DUMP ANALYSIS AND ELIMINATION (SC143)  
**Eye-Catcher ID:** SQ  
 Offset: 0  
 Length: 2  
**Storage Attributes:** Subpool: 239, 231  
 Key: 0  
 Residency: ANY  
**Size:** LENGTH(SYMPQ)  
**Created by:** ADYTRNS  
**Pointed to by:** DSCSYMPP  
**Serialization:** Compare Double & Swap  
**Function:** Maps the record, in main storage, of an error incident which DAE either copied from the DAE data set or constructed following an error incident which met the criteria for minimum symptom data.

### SYMPQ Map

| Offsets |      |            |     |            |                                                                                  |
|---------|------|------------|-----|------------|----------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                      |
| 0       | (0)  | STRUCTURE  | 216 | SYMPQ      | SYMPTOM QUEUE ENTRY                                                              |
| 0       | (0)  | ADDRESS    | 4   | SYMPQNXT   | PTR-NEXT ENTRY IN SYMPQ                                                          |
| 4       | (4)  | CHARACTER  | 2   | SYMPID     | INDIVIDUAL ACRONYM FOR EACH ELEMENT                                              |
| 6       | (6)  | CHARACTER  | 21  | SYMPORIG   | IDENTIFICATION OF THE ORIGINAL OCCURRENCE OF THIS PROBLEM.                       |
| 6       | (6)  | CHARACTER  | 10  | SYMPERID   | ORIGINAL ERROR ID                                                                |
| 6       | (6)  | UNSIGNED   | 2   | SYMPOSEQ   | ERROR ID SEQUENCE NUMBER                                                         |
| 8       | (8)  | UNSIGNED   | 2   | SYMPOCID   | ERROR ID CPU ID                                                                  |
| 10      | (A)  | UNSIGNED   | 2   | SYMPOAS    | ERROR ID ADDRESS SPACE ID                                                        |
| 12      | (C)  | SIGNED     | 4   | SYMPTOTIM  | ORIGINAL TIME (BINARY NUMBER TENTHS OF A SECOND SINCE MIDNIGHT).                 |
| 16      | (10) | CHARACTER  | 4   | SYMPODAT   | ORIGINAL DATE (PACKED DECIMAL JULIAN 00YYDDDF)                                   |
| 20      | (14) | CHARACTER  | 6   | SYMPOCPU   | CPUID-ORIGINAL FOUND                                                             |
| 26      | (1A) | BITSTRING  | 1   | SYMPOFLG   | FLAGS                                                                            |
|         |      | 1... ....  |     | SYMPSVCD   | AN SVC DUMP CREATED THE ORIGINAL DOCUMENTATION                                   |
|         |      | .1.. ....  |     | SYMPSSYM   | A SYSDUMP CREATED THE ORIGINAL DOCUMENTATION                                     |
|         |      | ..1. ....  |     | SYMPTRUM   | ORIGINAL SYMPTOM STRING WAS TRUNCATED                                            |
|         |      | ...1 1111  |     | *          | RESERVED                                                                         |
| 27      | (1B) | CHARACTER  | 10  | SYMPCURR   | LAST OCCURRENCE DATA                                                             |
| 27      | (1B) | SIGNED     | 4   | SYMPDTIM   | TIME - MOST RECENT OCCURRENCE (BINARY NUMBER TENTHS OF A SECOND SINCE MIDNIGHT). |
| 31      | (1F) | CHARACTER  | 4   | SYMPDDAT   | DATE - MOST RECENT OCCURRENCE (PACKED DECIMAL JULIAN 00YYDDDF)                   |
| 35      | (23) | SIGNED     | 2   | SYMPDCNT   | COUNT- OF OCCURRENCES                                                            |
| 37      | (25) | SIGNED     | 2   | SYMPSCNT   | COUNT-SYMPTOMS IN SYMPQC                                                         |
| 39      | (27) | SIGNED     | 2   | SYMPSLN    | LENGTH-SYMPTOMS IN SYMPQC PLUS A TRAILING BLANK                                  |
| 41      | (29) | CHARACTER  | 150 | SYMPQC     | SYMPTOMS IN MVS LOCAL FMT                                                        |
| 191     | (BF) | CHARACTER  | 1   | SYMPFLAG   | Flags                                                                            |
|         |      | 1... ....  |     | SYMPTKDP   | Take the next Dump flag                                                          |
|         |      | .1.. ....  |     | SYMPRCDA   | This entry was added because of RECORDALL                                        |
|         |      | ..1. ....  |     | SYMPPART   | This entry represents a partial or empty dump - do not suppress                  |
|         |      | ...1 ....  |     | SYMPDUM    | This entry represents a dummy entry, do not suppress                             |
| 192     | (C0) | ADDRESS    | 4   | SYMPFREQ   | Address of EventList                                                             |
| 196     | (C4) | CHARACTER  | 4   | *          | RESERVED                                                                         |

## SYMPQ Constants • SYMPQ Cross Reference

| Offsets |      |            |     |            |                                   |
|---------|------|------------|-----|------------|-----------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                       |
| 200     | (C8) | CHARACTER  | 8   | SYMPSYSNO  | System Name - Original occurrence |
| 208     | (D0) | CHARACTER  | 8   | SYMPSYSNL  | System Name - Last Occurrence     |

| Offsets |      |                        |     |                               |                                |
|---------|------|------------------------|-----|-------------------------------|--------------------------------|
| Dec     | Hex  | Type/Value             | Len | Name (Dim)                    | Description                    |
| 0       | (0)  | STRUCTURE              | 65  | SYMPX                         | Symptom Queue Extension        |
| 0       | (0)  | CHARACTER              | 8   | SYMPXTIMESTAMP                | Time Stamp of Event            |
| 0       | (0)  | UNSIGNED               | 4   | SYMPXTIMESTAMPL               | Left fullword                  |
| 8       | (8)  | CHARACTER              | 13  | SYMPXLAST                     | Data Sent to remote systems    |
| 8       | (8)  | CHARACTER              | 12  | SYMPXLAST2                    |                                |
| 8       | (8)  | UNSIGNED               | 4   | SYMPXLASTCOUNT                | Count of Events at last notify |
| 12      | (C)  | CHARACTER              | 8   | SYMPXLASTNOTIFYTIME           | Last Notify Time (or 0)        |
| 12      | (C)  | UNSIGNED               | 4   | SYMPXLASTNOTIFYTIMEL          | Left Word                      |
| 20      | (14) | CHARACTER<br>1... .... | 1   | SYMPXFLAGS<br>SYMPXNOTIFYFLAG | Indicates NOTIFY just done     |
| 21      | (15) | CHARACTER              | 44  | SYMPXDATASETNAME              | Original Dump Dataset Name     |

### SYMPQ Constants

| Len | Type      | Value                    | Name        | Description                                                    |
|-----|-----------|--------------------------|-------------|----------------------------------------------------------------|
| 2   | CHARACTER | SQ                       | SYMPIDV     | ACRONYM TO BE FILLED INTO SYMPID WHEN EACH ELEMENT IS CREATED. |
| 4   | DECIMAL   | 239                      | SYMPQSP     | SYMPTOM QUEUE SUBPOOL FOR SVC DUMP ELEMENTS.                   |
| 4   | DECIMAL   | 231                      | SYMPQSPSYSM | SYMPTOM QUEUE SUBPOOL FOR SYSMDUMP ELEMENTS.                   |
| 24  | CHARACTER | DAE SYMPTOM QUEU E CELLS | SYMPQCPH    | HEADER FOR SYMPTOM QUEUE CELL POOL EXTENTS.                    |

### SYMPQ Cross Reference

| Name     | Hex Offset | Hex Value | Name                 | Hex Offset | Hex Value |
|----------|------------|-----------|----------------------|------------|-----------|
| SYMPCURR | 1B         |           | SYMPSCNT             | 25         |           |
| SYMPDCNT | 23         |           | SYMPSLN              | 27         |           |
| SYMPDDAT | 1F         |           | SYMPSVCD             | 1A         | 80        |
| SYMPDTIM | 1B         |           | SYMPSSYSM            | 1A         | 40        |
| SYMPDUM  | BF         | 10        | SYMPSYSNL            | D0         |           |
| SYMPERID | 6          |           | SYMPSYSNO            | C8         |           |
| SYMPFLAG | BF         |           | SYMPTKDP             | BF         | 80        |
| SYMPFREQ | C0         |           | SYMPTRUM             | 1A         | 20        |
| SYMPID   | 4          |           | SYMPX                | 0          |           |
| SYMPOAS  | A          |           | SYMPXDATASETNAME     |            |           |
| SYMPOCID | 8          |           |                      | 15         |           |
| SYMPOCPU | 14         |           | SYMPXFLAGS           | 14         |           |
| SYMPODAT | 10         |           | SYMPXLAST            | 8          |           |
| SYMPOFLG | 1A         |           | SYMPXLASTCOUNT       |            |           |
| SYMPORIG | 6          |           |                      | 8          |           |
| SYMPOSEQ | 6          |           | SYMPXLASTNOTIFYTIME  |            |           |
| SYMPOTIM | C          |           |                      | C          |           |
| SYMPPART | BF         | 20        | SYMPXLASTNOTIFYTIMEL |            |           |
| SYMPQ    | 0          |           |                      | C          |           |
| SYMPQC   | 29         |           | SYMPXLAST2           | 8          |           |
| SYMPQNXT | 0          |           | SYMPXNOTIFYFLAG      |            |           |
| SYMPRCDA | BF         | 40        |                      | 14         | 80        |

| Name             | Hex<br>Offset | Hex<br>Value |
|------------------|---------------|--------------|
| SYMPXTIMESTAMP   | 0             |              |
| SYMPXTIMESTAMPPL | 0             |              |



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## S99PARMS Programming Interface information

Programming Interface information

### S99PARMS

The following field is **NOT** programming interface information:

- S99EMSGP

End of Programming Interface information

## S99PARMS Heading Information

**Common Name:** Dynamic Allocation (SVC 99) Parameter List  
**Macro ID:** IEFZB4D0  
**DSECT Name:** S99RB, S99RBP, S99TUPL, S99TUNIT, S99TUFLD, S99RBX  
**Owning Component:** Allocation (SC1B4)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Main Storage: No  
 Subpool: User defined  
 Key: User's key  
 Residency: Any  
**Size:** S99RB: 24 bytes  
 S99RBX: 36 bytes  
**Created by:** Callers of dynamic allocation  
**Pointed to by:** Register 1 points to a pointer to this parameter list upon entry to SVC 99.  
**Serialization:** None  
**Function:** Input required by dynamic allocation, specifically the dynamic allocation control routine, IEFDB400.

## S99PARMS Map

| Offsets |     |            |     |            |                               |
|---------|-----|------------|-----|------------|-------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                   |
| 0       | (0) | STRUCTURE  | 0   | S99RBP     |                               |
| 0       | (0) | SIGNED     | 4   | S99RBPTR   | REQUEST BLOCK POINTER         |
|         |     | 1... ....  |     | S99RBPND   | "X'80" LAST POINTER INDICATOR |

| Offsets |     |            |     |              |                                                                                                                           |
|---------|-----|------------|-----|--------------|---------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim)   | Description                                                                                                               |
| 0       | (0) | STRUCTURE  | 0   | S99RB        | REQUEST BLOCK                                                                                                             |
| 0       | (0) | SIGNED     | 4   | (0)          |                                                                                                                           |
| 0       | (0) | CHARACTER  | 1   | S99RBLN      | LENGTH OF REQUEST BLOCK                                                                                                   |
| 1       | (1) | CHARACTER  | 1   | S99VERB      | VERB CODE                                                                                                                 |
|         |     | .... ..1   |     | S99VRBAL     | "X'01" ALLOCATION                                                                                                         |
|         |     | .... ..1.  |     | S99VRBUN     | "X'02" UNALLOCATION                                                                                                       |
|         |     | .... ..11  |     | S99VRBCC     | "X'03" CONCATENATION                                                                                                      |
|         |     | .... ..1.. |     | S99VRBDC     | "X'04" DECONCATENATION                                                                                                    |
|         |     | .... ..1.1 |     | S99VRBRI     | "X'05" REMOVE IN-USE                                                                                                      |
|         |     | .... ..11. |     | S99VRBDN     | "X'06" DDNAME ALLOCATION                                                                                                  |
|         |     | .... ..111 |     | S99VRBIN     | "X'07" INFORMATION RETRIEVAL                                                                                              |
| 2       | (2) | CHARACTER  | 2   | S99FLAG1 (0) | FLAGS                                                                                                                     |
| 2       | (2) | CHARACTER  | 1   | S99FLG11     | FIRST FLAGS BYTE                                                                                                          |
|         |     | 1... ....  |     | S99ONCNV     | "X'80" ALLOC FUNCTION-DO NOT USE AN EXISTING ALLOCATION THAT DOES NOT HAVE THE CONVERTIBLE ATTRIBUTE TO SATISFY A REQUEST |
|         |     | ..1.. .... |     | S99NOCNV     | "X'40" ALLOC FUNCTION-DO NOT USE AN EXISTING ALLOCATION TO SATISFY THE REQUEST                                            |
|         |     | ..1. ....  |     | S99NOMNT     | "X'20" ALLOC FUNCTION-DO NOT MOUNT VOLUMES OR CONSIDER OFFLINE UNITS (THIS FLAG OVERRIDES S99MOUNT AND S99OFFLN BELOW)    |
|         |     | ...1 ....  |     | S99JBSYS     | "X'10" ALLOC FUNC-JOB RELATED SYSOUT                                                                                      |
|         |     | .... 1...  |     | S99CNENQ     | "X'08" ALL FUNCTIONS-ISSUE A CONDITIONAL ENQ ON TIOT RESOURCE. IF NOT AVAILABLE, RETURN AN ERROR CODE TO USER.            |
|         |     | .... ..1.. |     | S99GDGNT     | "X'04" ALLOC FUNCTION - IGNORE THE GDG NAME TABLE AND PERFORM A LOCATE FOR THE GDG BASE LEVEL.                            |



| Offsets |      |            |     |                                  |                                                                                                                                                                                                          |
|---------|------|------------|-----|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)                       | Description                                                                                                                                                                                              |
|         |      | .... ..1.  |     | S99MSGLO                         | "X'02" All functions - ignore the MSGLEVEL parameter in the JCT and use MSGLEVEL=(,0)                                                                                                                    |
| 3       | (3)  | CHARACTER  | 1   | S99NOMIG<br>S99FLG12<br>S99NOSYM | "X'01" ALLOC function - do not recall migrated data sets<br>SECOND BYTE OF FLAGS<br>"X'80" Allocate, unallocate, info retrieval - do not perform symbolic substitution                                   |
|         |      | ..1. ....  |     | S99ACUCB                         | "X'40" Alloc function-use Actual UCB addresses                                                                                                                                                           |
| 4       | (4)  | CHARACTER  | 4   | S99RSC (0)                       | "X'20" Request that the DSAB for this allocation be placed above the 16MB line.<br>REASON CODE FIELDS                                                                                                    |
| 4       | (4)  | BITSTRING  | 2   | S99ERROR                         | ERROR REASON CODE                                                                                                                                                                                        |
| 6       | (6)  | BITSTRING  | 2   | S99INFO                          | INFORMATION REASON CODE                                                                                                                                                                                  |
| 8       | (8)  | SIGNED     | 4   | S99TXTPP                         | ADDR OF LIST OF TEXT UNIT PTRS                                                                                                                                                                           |
| 12      | (C)  | SIGNED     | 4   | S99S99X                          | ADDR OF REQ BLK EXTENSION                                                                                                                                                                                |
| 16      | (10) | CHARACTER  | 4   | S99FLAG2 (0)                     | FLAGS FOR AUTHORIZED FUNCTIONS                                                                                                                                                                           |
| 16      | (10) | CHARACTER  | 1   | S99FLG21                         | FIRST BYTE OF FLAGS                                                                                                                                                                                      |
|         |      | 1... ....  |     | S99WTVOL                         | "X'80" ALLOC FUNCTION-WAIT FOR VOLUMES                                                                                                                                                                   |
|         |      | ..1. ....  |     | S99WTDSN                         | "X'40" ALLOC FUNCTION-WAIT FOR DSNNAME                                                                                                                                                                   |
|         |      | ..1. ....  |     | S99NORES                         | "X'20" ALLOC FUNCTION-DO NOT DO DATA SET RESERVATION                                                                                                                                                     |
|         |      | .... ..1   |     | S99WTUNT                         | "X'10" ALLOC FUNCTION-WAIT FOR UNITS                                                                                                                                                                     |
|         |      | .... 1..   |     | S99OFFLN                         | "X'08" ALLOC FUNCTION-CONSIDER OFFLINE UNITS                                                                                                                                                             |
|         |      | .... ..1.  |     | S99TIONQ                         | "X'04" ALL FUNCTIONS-TIOT ENQ ALREADY DONE                                                                                                                                                               |
|         |      | .... ..1.  |     | S99CATLG                         | "X'02" ALLOC FUNCTION-SET SPECIAL CATALOG DATA SET INDICATORS                                                                                                                                            |
| 17      | (11) | CHARACTER  | 1   | S99MOUNT<br>S99FLG22<br>S99UDEVT | "X'01" ALLOC FUNCTION-MAY MOUNT VOLUME<br>SECOND BYTE OF FLAGS<br>"X'80" ALLOCATION FUNCTION-UNIT NAME PARM IS A DEVICE TYPE                                                                             |
|         |      | ..1. ....  |     | S99PCINT                         | "X'40" ALLOC FUNCTION-ALLOC PRIVATE CATALOG TO INITIATOR                                                                                                                                                 |
|         |      | ..1. ....  |     | S99DYNDI                         | "X'20" ALLOC FUNCTION-NO JES3 DSN INTEGRITY PROCESS                                                                                                                                                      |
|         |      | .... ..1   |     | S99TIOEX                         | "X'10" ALLOC FUNCTION - XTIO ENTRY REQUESTED (FOR SYSTEM PROGRAM USE ONLY)                                                                                                                               |
|         |      | .... 1..   |     | S99ASERR                         | "X'08" Unit Allocation / Unallocation Service (IEFAB4C1/IEFDB440) - Ignore Coupling Facility READ/WRITE failure when processing RELEASE function for Autoswitchable device (FOR SYSTEM PROGRAM USE ONLY) |
| 18      | (12) | CHARACTER  | 1   | S99FLG23                         | THIRD BYTE OF FLAGS                                                                                                                                                                                      |
| 19      | (13) | CHARACTER  | 1   | S99FLG24                         | FOURTH BYTE OF FLAGS                                                                                                                                                                                     |
| 19      | (13) | X'14'      | 0   | S99RBEND                         | *** END MARKER                                                                                                                                                                                           |

Comment

#### SVC 99 FLAG BIT MASKS

- A '1' DENOTES DEFINED BITS
- USED TO TEST FOR BIT SETTINGS

End of Comment

|           |          |                                    |
|-----------|----------|------------------------------------|
| 1111 1111 | S99MSK11 | "B'11111111" BIT MASK FOR S99FLG11 |
| 111. .... | S99MSK12 | "B'11100000" BIT MASK FOR S99FLG12 |
| 1111 1111 | S99MSK21 | "B'11111111" BIT MASK FOR S99FLG21 |
| 1111 1... | S99MSK22 | "B'11111000" BIT MASK FOR S99FLG22 |
| .... .... | S99MSK23 | "B'00000000" BIT MASK FOR S99FLG23 |
| .... .... | S99MSK24 | "B'00000000" BIT MASK FOR S99FLG24 |

Comment

#### SVC 99 FLAG RESERVED BIT MASKS

- A '1' DENOTES RESERVED BITS
- USED TO TEST FOR INVALID USE OF RESERVED FIELDS

End of Comment

## S99PARMS Map

| Offsets |     |            |     |            |                                           |
|---------|-----|------------|-----|------------|-------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                               |
|         |     | .... ....  |     | S99NOT11   | "B'00000000" INVERSE BITMASK FOR S99FLG11 |
|         |     | ...1 1111  |     | S99NOT12   | "B'00011111" INVERSE BITMASK FOR S99FLG12 |
|         |     | .... ....  |     | S99NOT21   | "B'00000000" INVERSE BITMASK FOR S99FLG21 |
|         |     | .... .111  |     | S99NOT22   | "B'00000111" INVERSE BITMASK FOR S99FLG22 |
|         |     | 1111 1111  |     | S99NOT23   | "B'11111111" INVERSE BITMASK FOR S99FLG23 |
|         |     | 1111 1111  |     | S99NOT24   | "B'11111111" INVERSE BITMASK FOR S99FLG24 |

| Offsets |     |            |     |            |                                       |
|---------|-----|------------|-----|------------|---------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                           |
| 0       | (0) | STRUCTURE  | 0   | S99TUPL    | TEXT UNIT POINTER LIST                |
| 0       | (0) | SIGNED     | 4   | S99TUPTR   | TEXT UNIT POINTER                     |
|         |     | 1... ....  |     | S99TUPLN   | "X'80" LAST TEXT UNIT POINTER IN LIST |

| Offsets |     |            |     |              |                                  |
|---------|-----|------------|-----|--------------|----------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim)   | Description                      |
| 0       | (0) | STRUCTURE  | 0   | S99TUNIT     | TEXT UNIT                        |
| 0       | (0) | BITSTRING  | 2   | S99TUKEY     | KEY                              |
| 2       | (2) | BITSTRING  | 2   | S99TUNUM     | NO. OF LENGTH+PARAMETER ENTRIES  |
| 4       | (4) | CHARACTER  | 1   | S99TUENT (0) | ENTRY OF LENGTH+PARAMETER        |
| 4       | (4) | BITSTRING  | 2   | S99TULNG     | LENGH OF 1ST (OR ONLY) PARAMETER |
| 6       | (6) | CHARACTER  | 1   | S99TUPAR     | 1ST (OR ONLY) PARAMETER          |

| Offsets |     |            |     |            |                     |
|---------|-----|------------|-----|------------|---------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description         |
| 0       | (0) | STRUCTURE  | 0   | S99TUFLD   |                     |
| 0       | (0) | BITSTRING  | 2   | S99TULEN   | LENGTH OF PARAMETER |
| 2       | (2) | CHARACTER  | 1   | S99TUPRM   | PARAMETER           |

| Offsets |      |            |     |             |                                                      |
|---------|------|------------|-----|-------------|------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)  | Description                                          |
| 0       | (0)  | STRUCTURE  | 0   | S99RBX      | REQUEST BLOCK EXTENSION                              |
| 0       | (0)  | CHARACTER  | 6   | S99EID      | CONTROL BLOCK ID ='S99RBX'                           |
| 6       | (6)  | CHARACTER  | 1   | S99EVER     | VERSION NUMBER                                       |
|         |      | .... ...1  |     | S99RBXVR    | "X'01" CURRENT VERSION NUMBER                        |
| 7       | (7)  | CHARACTER  | 1   | S99EOPTS    | PROCESSING OPTIONS                                   |
|         |      | 1... ....  |     | S99EIMSG    | "X'80" ISSUE MSG BEFORE RETURNING TO CALLER          |
|         |      | .1. ....   |     | S99ERMSG    | "X'40" RETURN MSG TO CALLER                          |
|         |      | .1. ....   |     | S99ELSTO    | "X'20" USER STORAGE SHOULD BE BELOW 16M BOUNDRY      |
|         |      | ...1 ....  |     | S99EMKEY    | "X'10" USER SPECIFIED STORAGE KEY FOR MESSAGE BLOCKS |
|         |      | .... 1...  |     | S99EMSUB    | "X'08" USER SPECIFIED SUBPOOL FOR MESSAGE BLOCKS     |
|         |      | .... .1..  |     | S99EWTP     | "X'04" USE WTO FOR MESSAGE OUTPUT                    |
| 8       | (8)  | CHARACTER  | 1   | S99ESUBP    | SUBPOOL FOR MESSAGE BLOCKS                           |
| 9       | (9)  | CHARACTER  | 1   | S99EKEY     | STORAGE KEY FOR MESSAGE BLOCKS                       |
| 10      | (A)  | CHARACTER  | 1   | S99EMGSV    | SEVERITY LEVEL FOR MESSAGES PROCESSING               |
|         |      | .... ....  |     | S99XINFO    | "X'00" INFORMATIONAL MSG SEVERITY                    |
|         |      | .... .1..  |     | S99XWARN    | "X'04" WARNING MESSAGE SEVERITY                      |
|         |      | .... 1...  |     | S99XSEVE    | "X'08" SEVERE MESSAGE SEVERITY                       |
| 11      | (B)  | CHARACTER  | 1   | S99ENMSG    | NUMBER OF MESSAGE BLOCKS RETURNED                    |
| 12      | (C)  | SIGNED     | 4   | S99ECPL     | ADDRESS OF CPPL                                      |
| 16      | (10) | CHARACTER  | 4   | S99EMRC (0) | MESSAGE SERVICE RETURN CODE                          |
| 16      | (10) | CHARACTER  | 1   | S99ERCR     | RESERVED                                             |
| 17      | (11) | CHARACTER  | 1   | S99ERCM     | RESERVED                                             |
| 18      | (12) | CHARACTER  | 1   | S99ERCO     | RETURN CODE DEALING WITH MESSAGE OUTPUT              |
| 19      | (13) | CHARACTER  | 1   | S99ERCF     | RETURN CODE DEALING WITH STORAGE FOR MESSAGE BLOCKS  |
| 20      | (14) | SIGNED     | 4   | S99EWRC     | PUTLINE/WTO RETURN CODE                              |

| Offsets |      |            |     |              |                                                |
|---------|------|------------|-----|--------------|------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                    |
| 24      | (18) | SIGNED     | 4   | S99EMSGP     | MESSAGE BLOCK POINTER                          |
| 28      | (1C) | SIGNED     | 4   | S99ESIRC (0) | INFORMATION RETRIEVAL RETURN CODE FOR SJF KEYS |
| 28      | (1C) | BITSTRING  | 2   | S99EERR      | ERROR REASON CODE                              |
| 30      | (1E) | BITSTRING  | 2   | S99EINFO     | INFORMATION REASON CODE                        |
| 32      | (20) | BITSTRING  | 4   | S99ERSN      | SMS REASON CODE                                |

## S99PARMS Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| S99ACUCB | 3          | 40        | S99NORES | 10         | 20        |
| S99ASERR | 11         | 8         | S99NOSYM | 3          | 80        |
| S99CATLG | 10         | 2         | S99NOT11 | 13         | 0         |
| S99CNENQ | 2          | 8         | S99NOT12 | 13         | 1F        |
| S99DSABA | 3          | 20        | S99NOT21 | 13         | 0         |
| S99DYNDI | 11         | 20        | S99NOT22 | 13         | 7         |
| S99ECPPL | C          |           | S99NOT23 | 13         | FF        |
| S99EERR  | 1C         |           | S99NOT24 | 13         | FF        |
| S99EID   | 0          |           | S99OFFLN | 10         | 8         |
| S99EIMSG | 7          | 80        | S99ONCNV | 2          | 80        |
| S99EINFO | 1E         |           | S99PCINT | 11         | 40        |
| S99EKEY  | 9          |           | S99RB    | 0          |           |
| S99ELSTO | 7          | 20        | S99RBEND | 13         | 14        |
| S99EMGSV | A          |           | S99RBLN  | 0          |           |
| S99EMKEY | 7          | 10        | S99RBP   | 0          |           |
| S99EMRC  | 10         |           | S99RBPND | 0          | 80        |
| S99EMSGP | 18         |           | S99RBPTR | 0          |           |
| S99EMSUB | 7          | 8         | S99RBX   | 0          |           |
| S99ENMSG | B          |           | S99RBXVR | 6          | 1         |
| S99EOPTS | 7          |           | S99RSC   | 4          |           |
| S99ERCF  | 13         |           | S99S99X  | C          |           |
| S99ERCM  | 11         |           | S99TIOEX | 11         | 10        |
| S99ERCO  | 12         |           | S99TIONQ | 10         | 4         |
| S99ERCR  | 10         |           | S99TUENT | 4          |           |
| S99ERMSG | 7          | 40        | S99TUFLD | 0          |           |
| S99ERROR | 4          |           | S99TUKEY | 0          |           |
| S99ERSN  | 20         |           | S99TULEN | 0          |           |
| S99ESIRC | 1C         |           | S99TULNG | 4          |           |
| S99ESUBP | 8          |           | S99TUNIT | 0          |           |
| S99EVER  | 6          |           | S99TUNUM | 2          |           |
| S99EWRC  | 14         |           | S99TUPAR | 6          |           |
| S99EWTP  | 7          | 4         | S99TUPL  | 0          |           |
| S99FLAG1 | 2          |           | S99TUPLN | 0          | 80        |
| S99FLAG2 | 10         |           | S99TUPRM | 2          |           |
| S99FLG11 | 2          |           | S99TUPTR | 0          |           |
| S99FLG12 | 3          |           | S99TXTPP | 8          |           |
| S99FLG21 | 10         |           | S99UDEVT | 11         | 80        |
| S99FLG22 | 11         |           | S99VERB  | 1          |           |
| S99FLG23 | 12         |           | S99VRBAL | 1          | 1         |
| S99FLG24 | 13         |           | S99VRBCC | 1          | 3         |
| S99GDGNT | 2          | 4         | S99VRBDC | 1          | 4         |
| S99INFO  | 6          |           | S99VRBDN | 1          | 6         |
| S99JBSYS | 2          | 10        | S99VRBIN | 1          | 7         |
| S99MOUNT | 10         | 1         | S99VRBRI | 1          | 5         |
| S99MSGL0 | 2          | 2         | S99VRBUN | 1          | 2         |
| S99MSK11 | 13         | FF        | S99WTDSN | 10         | 40        |
| S99MSK12 | 13         | E0        | S99WTUNT | 10         | 10        |
| S99MSK21 | 13         | FF        | S99WTVOL | 10         | 80        |
| S99MSK22 | 13         | F8        | S99XINFO | A          | 0         |
| S99MSK23 | 13         | 0         | S99XSEVE | A          | 8         |
| S99MSK24 | 13         | 0         | S99XWARN | A          | 4         |
| S99NOCNV | 2          | 40        |          |            |           |
| S99NOMIG | 2          | 1         |          |            |           |
| S99NOMNT | 2          | 20        |          |            |           |



## TAXE Heading Information

**Common Name:** TSO Terminal Attention Exit Element  
**Macro ID:** IKJTAXE  
**DSECT Name:** TAXE  
**Owning Component:** Region Control Task (SC1CU)  
**Subpool and Key:** 253 and key 0  
**Size:** 144 bytes  
**Created by:** IEAVAX00  
**Pointed to by:** RCTDTAXE field of the RCTD data area.  
**Serialization:** Local Lock  
**Function:** This data area consists of an IRB, an IQE, and a work area. It maps an entire TAXE with the exception of the RB prefix because of its varying size and since it is not required when referencing the TAXE. The TAXE contains information necessary for scheduling attention exits and is used to queue STAX exit requests.

### TAXE Map

| Offsets          |      |            |     |            |                                                                 |
|------------------|------|------------|-----|------------|-----------------------------------------------------------------|
| Dec              | Hex  | Type/Value | Len | Name (Dim) | Description                                                     |
| 0                | (0)  | STRUCTURE  | 144 | TAXE       |                                                                 |
| Comment          |      |            |     |            |                                                                 |
| STANDARD IRB     |      |            |     |            |                                                                 |
| End of Comment   |      |            |     |            |                                                                 |
| 0                | (0)  | CHARACTER  | 96  | TAXEIRB    | IRB                                                             |
| 96               | (60) | ADDRESS    | 4   | TAXENIQE   | PTR NEXT AVAILABLE IQE                                          |
| Comment          |      |            |     |            |                                                                 |
| STANDARD IQE     |      |            |     |            |                                                                 |
| End of Comment   |      |            |     |            |                                                                 |
| 100              | (64) | CHARACTER  | 44  | TAXEWORK   | LABEL USED WHEN CLEARING WORK AREA YO2752                       |
| 100              | (64) | ADDRESS    | 4   | TIQELNK    | ADDR OF NEXT IQE ON IQE QUEUE YO2752                            |
| 104              | (68) | ADDRESS    | 4   | TIQEPARM   | PARM TO ASYNCHRONOUS EXIT ROUTINE YO2752                        |
| 108              | (6C) | ADDRESS    | 4   | TIQEIRB    | ADDR OF IRB TO BE SCHED. YO2752                                 |
| 112              | (70) | ADDRESS    | 4   | TAXETCB    | PTR TO TCB YO2752                                               |
| Comment          |      |            |     |            |                                                                 |
| WORK AREA OF IRB |      |            |     |            |                                                                 |
| End of Comment   |      |            |     |            |                                                                 |
| 116              | (74) | CHARACTER  | 1   | *          | ZA17748                                                         |
| 117              | (75) | ADDRESS    | 3   | TAXELNK    | PTR TO NEXT TAXE ON QUE ZA17748                                 |
| 120              | (78) | ADDRESS    | 4   | TAXEPARM   | PTR TO STAX PARM LIST                                           |
| 120              | (78) | ADDRESS    | 4   | TAXESTAX   | ADDR OF STAX PARM LIST                                          |
| 124              | (7C) | ADDRESS    | 4   | TAXEEXIT   | PTR TO USER ATTENTION EXIT ROUTINE YO2752                       |
|                  |      | 1... ....  |     | TAXEEXM    | ADDRESSING MODE OF USER EXIT ROUTINE                            |
| 128              | (80) | CHARACTER  | 4   | *          | FLAGS                                                           |
| 128              | (80) | CHARACTER  | 1   | TAXESTAT   | STATUS OF PROGRAM ISSUING THE STAX SVC YO2752                   |
|                  |      | 1... ....  |     | TAXEFKEY   | STATUS FLAG FOR PROB KEY YO2752                                 |
|                  |      | .1. ....   |     | TAXEFMOD   | STATUS FLAG FOR PROB MODE YO2752                                |
|                  |      | ...1. .... |     | TAXEFREQ   | STATUS FLAG FOR REQUESTED TAXE YO2752                           |
|                  |      | ...1 ....  |     | TAXERESM   | ON-ATTENTION PROLOGUE MUST NOT GO TO USER ATTENTION EXIT YO2752 |

## TAXE Cross Reference

| Offsets |      |            |     |            |                                                           |
|---------|------|------------|-----|------------|-----------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                               |
|         |      | .... 1...  |     | TAXESCHD   | ON-TAXE HAS BEEN SCHEDULED BUT IS NOT IN USER CODE YO2752 |
|         |      | .... .1..  |     | TAXEATTN   | ON-ATTN IN EFFECT FOR CLIST                               |
|         |      | .... ..1.  |     | TAXECLST   | ON- TAXE CAN HANDLE CLIST ATTN EXITS                      |
|         |      | .... ...1  |     | TAXEIGNI   | INITIAL TAXE IGNORE STATUS                                |
| 129     | (81) | CHARACTER  | 1   | TAXEST2    | SECOND STATUS BYTE                                        |
|         |      | 1... ....  |     | TAXEIGNC   | CURRENT TAXE IGNORE STATUS                                |
|         |      | .1.. ....  |     | TAXETPLV   | ON - THIS IS A TOPLEVL ATTENTION EXIT                     |
|         |      | ..11 1111  |     | *          | RESERVED                                                  |
| 130     | (82) | CHARACTER  | 2   | *          | RESERVED                                                  |
| 132     | (84) | ADDRESS    | 4   | TAXETAIE   | PTR TO TAIE YO2752                                        |
| 136     | (88) | ADDRESS    | 4   | TAXEIBUF   | PTR TO USER INPUT BUFFER YO2752                           |
| 140     | (8C) | ADDRESS    | 4   | TAXEUSER   | PTR TO USER PARAMETER YO2752                              |
| 144     | (90) | CHARACTER  | 0   | TAXEEND    | TAXE WILL BE IN DBL WDS YO2752                            |

## TAXE Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| TAXE     | 0          |           |
| TAXEATTN | 80         | 04        |
| TAXECLST | 80         | 02        |
| TAXEEND  | 90         |           |
| TAXEEXIT | 7C         |           |
| TAXEEXM  | 7C         | 80        |
| TAXEFKEY | 80         | 80        |
| TAXEFMOD | 80         | 40        |
| TAXEFREQ | 80         | 20        |
| TAXEIBUF | 88         |           |
| TAXEIGNC | 81         | 80        |
| TAXEIGNI | 80         | 01        |
| TAXEIRB  | 0          |           |
| TAXELNK  | 75         |           |
| TAXENIQE | 60         |           |
| TAXEPARM | 78         |           |
| TAXERESM | 80         | 10        |
| TAXESCHD | 80         | 08        |
| TAXESTAT | 80         |           |
| TAXESTAX | 78         |           |
| TAXEST2  | 81         |           |
| TAXETAIE | 84         |           |
| TAXETCB  | 70         |           |
| TAXETPLV | 81         | 40        |
| TAXEUSER | 8C         |           |
| TAXEWORK | 64         |           |
| TIQEIRB  | 6C         |           |
| TIQELNK  | 64         |           |
| TIQEPARM | 68         |           |

## TBVT Heading Information

**Common Name:** System trace buffer vector table and trace buffer

**Macro ID:** IHATBVT

**DSECT Name:** TBVT, TBUF

**Owning Component:** System trace (SC142)

**Eye-Catcher ID:** TBVT  
 Offset: 0  
 Length: 4

**Storage Attributes:** Subpool: 245 (created by IEAVNIP0), 255 (created by IEAVETEA)  
 Key: 0  
 Residency: LOC(ANY)

**Size:** 64 bytes for the TBVT plus 4096 bytes for the TBUF

**Created by:** IEAVNIP0 - NUCLEUS initialization  
 IEAVETEA - System trace environment alteration routine  
 INITIALIZATION =  
 The creator of the TBVT must initialize TBVTID with the acronym 'TBVT' and TBVTBLVL with the constant TBVTBLVLN.  
 The creator of the tbuf must initialize TBUFID with the acronym 'TBUF'.

**Pointed to by:** TBVT <== PSATBVTR, PSATBVTV, TBVTBWRD, TBVTFWRD, TBVTNXTR, TBVTNXTV, TOBPTBVT  
 TBUF <== TBVTCR12, TBVTBUFV

**Serialization:** TBVT The queueing fields are serialized by disablement on the processor, the trace spin lock and the system trace address space local lock, or the trace spin lock and the system trace address space local lock if the processor is not alive (CSDCPUAL).  
 The buffer status fields (TBVTENT1 and fields in TBVTBST) are serialized by disablement on the processor and zeroed tracing control bits in control register 12, or the trace spin lock and the system trace address space local lock if the processor is not alive (CSDCPUAL).  
 TBUF Disablement on the processor and zeroed tracing control bits in control register 12.

**Function:** TBVT contains information to maintain accountability of a 4K trace buffer and the TBVT queue.  
 TBUF contains trace table entries (TTES).

### TBVT Map

| Offsets |     |            |     |            |                             |
|---------|-----|------------|-----|------------|-----------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                 |
| 0       | (0) | STRUCTURE  | 80  | TBVT       | TRACE BUFFER VECTOR TABLE.  |
| 0       | (0) | CHARACTER  | 4   | TBVTID     | TBVT EBCDIC IDENTIFIER.     |
| 4       | (4) | UNSIGNED   | 1   | TBVTBLVL   | CONTROL BLOCK LEVEL NUMBER. |
| 5       | (5) | CHARACTER  | 1   | *          | UNUSED                      |
| 6       | (6) | UNSIGNED   | 2   | TBVTPID    | PROCESSOR IDENTIFIER.       |
| 8       | (8) | CHARACTER  | 8   | TBVTC12E   | TRACE BYTES 0-3             |
| 8       | (8) | BITSTRING  | 4   | TBVT120    | BYTES 0-3 OF TRACE          |
|         |     | 1... ....  |     | TBVTBRE    | ESAME BRANCH TRACE OPTION   |
|         |     | .1.. ....  |     | TBVTMOE    | ESAME MODE TRACE OPTION     |

## TBVT Map

| Offsets |      |                                                 |     |            |                                                                                                                                                                          |
|---------|------|-------------------------------------------------|-----|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value                                      | Len | Name (Dim) | Description                                                                                                                                                              |
| 12      | (C)  | ADDRESS                                         | 4   | TBVT121    | REAL BUFFER ADDRESS AND TRACE OPTION FLAGS IN CONTROL REGISTER 12 FORMAT.                                                                                                |
| 12      | (C)  | BITSTRING<br>1... ....                          | 3   | *          | BRANCH TRACE OPTION (NOT ESAME). BIT 0                                                                                                                                   |
| 15      | (F)  | BITSTRING<br>1111 11..<br>.... ..1.<br>.... ..1 | 1   | *          |                                                                                                                                                                          |
| 16      | (10) | CHARACTER                                       | 8   | TBVTFRWD   | ASID TRACE OPTION. BIT 30.                                                                                                                                               |
| 16      | (10) | ADDRESS                                         | 4   | TBVTNXTR   | EXPLICIT TRACE OPTION. BIT 31.                                                                                                                                           |
| 20      | (14) | ADDRESS                                         | 4   | TBVTNXTV   | TBVT FORWARD QUEUE POINTERS.                                                                                                                                             |
| 24      | (18) | ADDRESS                                         | 4   | TBVTBWRD   | REAL ADDRESS OF NEXT TBVT.                                                                                                                                               |
| 28      | (1C) | ADDRESS                                         | 4   | TBVTBUFV   | VIRTUAL ADDRESS OF NEXT TBVT.                                                                                                                                            |
| 32      | (20) | CHARACTER                                       | 24  | TBVTBST    | VIRTUAL ADDRESS OF PREVIOUS TBVT.                                                                                                                                        |
| 32      | (20) | CHARACTER                                       | 8   | TBVT34     | VIRTUAL ADDRESS OF 4K BUFFER ASSOCIATED WITH THIS TBVT.                                                                                                                  |
| 32      | (20) | CHARACTER                                       | 2   | TBVTBFGS   | BUFFER STATUS. (COPIED TO TTCHBST AND TFWABST)                                                                                                                           |
| 32      | (20) | CHARACTER                                       | 1   | TBVTBFG1   | CONTROL REGISTERS 3 AND 4 AT TIME BUFFER BECAME CURRENT.                                                                                                                 |
|         |      | 1... ....                                       |     | TBVTPLST   | STATE FLAGS.                                                                                                                                                             |
|         |      | .1... ....                                      |     | TBVT12C    | STATE FLAGS.                                                                                                                                                             |
|         |      |                                                 |     |            | PREVIOUS TBVT(S) LOST FLAG.                                                                                                                                              |
| 33      | (21) | CHARACTER                                       | 1   | TBVTBFG2   | CONTROL REGISTER 12 HAS THE CURRENT VALUE OF TBVTENT1. IF THE BUFFER IS NOT THE CURRENT BUFFER, CONTROL INFORMATION HAS BEEN LOST, THE END OF THE TRACE DATA IS UNKNOWN. |
| 34      | (22) | UNSIGNED                                        | 2   | TBVTBSA    | STATE FLAGS.                                                                                                                                                             |
| 36      | (24) | UNSIGNED                                        | 2   | TBVTBHA    | SASID AT TIME BUFFER BECAME CURRENT.                                                                                                                                     |
| 38      | (26) | UNSIGNED                                        | 2   | TBVTBPA    | HASID AT TIME BUFFER BECAME CURRENT.                                                                                                                                     |
| 40      | (28) | ADDRESS                                         | 4   | TBVTBTB    | PASID AT TIME BUFFER BECAME CURRENT.                                                                                                                                     |
| 44      | (2C) | SIGNED                                          | 4   | TBVTBCNT   | PSATOLD AT TIME BUFFER BECAME CURRENT.                                                                                                                                   |
| 48      | (30) | CHARACTER                                       | 8   | TBVTBTOD   | BUFFER USE COUNT.                                                                                                                                                        |
| 56      | (38) | CHARACTER                                       | 8   | TBVTBSAT   | TIME OF DAY BUFFER BECAME CURRENT.                                                                                                                                       |
| 64      | (40) | CHARACTER                                       | 8   | TBVTENTE   | TIME OF DAY BUFFER BECAME SATURATED.                                                                                                                                     |
| 64      | (40) | BITSTRING                                       | 4   | TBVTENT0   | CR12. AS THIS IS USED AS THE TARGET OF STCTG, IT MUST BE ON A DOUBLEWORD BOUNDARY                                                                                        |
| 68      | (44) | ADDRESS                                         | 4   | TBVTENT1   | WORD 0 OF ESAME CR12                                                                                                                                                     |
|         |      |                                                 |     |            | WORD 1 OF ESAME CR12. REAL ADDRESS OF NEXT AVAILABLE ENTRY SLOT IN TRACE BUFFER (IN CONTROL REGISTER 12 FORMAT) AT THE LAST SUSPEND OR TRACE INTERRUPT FOR THE BUFFER.   |
| 72      | (48) | CHARACTER                                       | 8   | TBVTWORK   | WORK AREA. AS THIS IS USED AS THE TARGET OF STCTG, IT MUST BE ON A DOUBLEWORD BOUNDARY                                                                                   |
| 80      | (50) | CHARACTER                                       | 0   | TBVTEND    | END OF TBVT.                                                                                                                                                             |

| Offsets |        |            |      |            |                           |
|---------|--------|------------|------|------------|---------------------------|
| Dec     | Hex    | Type/Value | Len  | Name (Dim) | Description               |
| 0       | (0)    | STRUCTURE  | 4096 | TBUF       | TRACE BUFFER.             |
| 0       | (0)    | CHARACTER  | 4092 | TBUFDATA   | TRACE BUFFER DATA (TTES). |
| 4092    | (FFC)  | CHARACTER  | 4    | TBUFID     | TBUF EBCDIC IDENTIFIER.   |
| 4096    | (1000) | CHARACTER  | 0    | TBUFEND    | END OF TBUF.              |







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# TBWC Programming Interface Information

Programming Interface Information

TBWC

End of Programming Interface Information

## TBWC Heading Information

**Common Name:** CTRACE Trace Buffer Writer Control area  
**Macro ID:** ITTTBWC  
**DSECT Name:** TBWC  
**Owning Component:** CTRACE (SCTRC)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: Determined by component  
 Key: Determined by component  
 Residency: Determined by component  
**Size:** 8 bytes  
**Created by:** The TBWC is created by the component that is using the CTRACE writer services.  
**Pointed to by:** Private pointer (or data register), in containing module.  
**Serialization:** None  
**Function:** The TBWC is used as the communication area between the exploiting component and CTrace. This area indicates the status of a particular trace buffer.

## TBWC Map

| Offsets |     |            |     |             |                                                                                                     |
|---------|-----|------------|-----|-------------|-----------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim)  | Description                                                                                         |
| 0       | (0) | STRUCTURE  | 0   | TBWC        | , Ctrace trace buffer writer control area                                                           |
| 0       | (0) | BITSTRING  | 1   | TBWCUSRF    | Flags set by the user of CTRACEWR                                                                   |
|         |     | 1... ....  |     | TBWCUTRC    | "X'80" =1 Component is tracing in the trace buffer                                                  |
|         |     | .1.. ....  |     | TBWCUFUL    | "X'40" =1 Trace buffer is full                                                                      |
| 1       | (1) | BITSTRING  | 1   | TBWCCTRF    | Flags set by CTRACEWR and cleared by the user                                                       |
|         |     | 1... ....  |     | TBWCPCAP    | "X'80" =1 CTRACEWR is in the process of capturing the trace buffer                                  |
|         |     | .1.. ....  |     | TBWCPCAVL   | "X'40" =1 The trace buffer has been captured and is now available to be filled again                |
| 2       | (2) | BITSTRING  | 2   | TBWCRSN     | Reason code. Non-zero when CTRACE determines that the buffer is being reused before it is captured. |
| 4       | (4) | SIGNED     | 4   | TBWCSEQ     | This sequence number is incremented each time the component starts to fill the trace buffer         |
| 8       | (8) | DBL WORD   | 8   | TBWCEND (0) | - End of TBWC                                                                                       |

## TBWC Cross Reference

| Name      | Hex Offset | Hex Value |
|-----------|------------|-----------|
| TBWC      | 0          |           |
| TBWCPCAVL | 1          | 40        |
| TBWCPCAP  | 1          | 80        |
| TBWCCTRF  | 1          |           |
| TBWCEND   | 8          |           |
| TBWCRSN   | 2          |           |
| TBWCSEQ   | 4          |           |
| TBWCUFUL  | 0          | 40        |
| TBWCUSRF  | 0          |           |
| TBWCUTRC  | 0          | 80        |

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## TCB Programming Interface information

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Programming Interface information

### TCB

**ONLY** the following fields are part of the programming interface information:

- TCBAFFN
- TCBANDSP
- TCBARC
- TCBACK
- TCBBITCB
- TCBCELAP
- TCBCMP
- TCBCMPF
- TCBDEB
- TCBFLGS8
- TCBGRES
- TCBGRS
- TCBJLB
- TCBJSCBB
- TCBJSTCB
- TCBLEVEL
- TCBLLS
- TCBLTC
- TCBNTC
- TCBOTC
- TCBPIE
- TCBPKF
- TCBRBP
- TCBRV316
- TCBSENV
- TCBSTCB
- TCBSVCA2
- TCBSVCS
- TCBSVCSP
- TCBTCB
- TCBTCBID
- TCBTCT
- TCBTID
- TCBTIO
- TCBUSER

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End of Programming Interface information

## Heading Information

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### TCB Heading Information

**Common Name:** TASK CONTROL BLOCK  
**Macro ID:** IKJTCB  
**DSECT Name:** TCBFIX (DSECT card precedes prefix). The label, TCB, should be used in the USING statement for the TCB proper. TCBXTNT2 is the DSECT name for common extension.  
**Owning Component:** Task Management (SC1CL)  
**Eye-Catcher ID:** TCB  
Offset: 256  
Length: 4  
**Storage Attributes:** Subpool: 253  
Key: 0  
Residency: Below 16 MB line  
**Size:** 408 bytes  
**Created by:** IEAMSWCB, ATTACH

|                       |                                                                                                                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pointed to by:</b> | ASMTCBPT field of the ASMVT data area                                                                                                                                                                                            |
|                       | ASXBFTCB field of the ASXB data area (first TCB)                                                                                                                                                                                 |
|                       | ASXBLTCB field of the ASXB data area (last TCB)                                                                                                                                                                                  |
|                       | CVTSLIDA field of the CVT data area (supervisor lock TCB)                                                                                                                                                                        |
|                       | CVTWTCB field of the CVT data area (dummy WAIT TCB)                                                                                                                                                                              |
|                       | DEBTCBAD field of the DEB data area                                                                                                                                                                                              |
|                       | DSABTCBP field of the DSAB data area                                                                                                                                                                                             |
|                       | EVNTTCBP field of the EVNT data area                                                                                                                                                                                             |
|                       | JSCBTCBP field of the JSCB data area (initiator TCB)                                                                                                                                                                             |
|                       | LCTTCBAD field of the LCT data area                                                                                                                                                                                              |
|                       | ORETCB field of the ORE data area                                                                                                                                                                                                |
|                       | PQETCB field of the PQE data area                                                                                                                                                                                                |
|                       | PSATNEW field of the PSA data area (new TCB to dispatch)                                                                                                                                                                         |
|                       | PSATOLD field of the PSA data area (current TCB<br>dispatched)                                                                                                                                                                   |
|                       | QELTCB field of the QEL data area                                                                                                                                                                                                |
|                       | QPLTCB field of the QPL data area                                                                                                                                                                                                |
|                       | RBLINK field of the RB data area                                                                                                                                                                                                 |
|                       | RQETCB field of the RQE data area                                                                                                                                                                                                |
|                       | SCVTCTCB field of the SCVT data area (Comm Task TCB)                                                                                                                                                                             |
|                       | SMCAWTCB field of the SMCA data area (SMF writer TCB)                                                                                                                                                                            |
|                       | SQETCB field of the SQE data area                                                                                                                                                                                                |
|                       | SSETCBA field of the EOT SSOB data area (terminating TCB)                                                                                                                                                                        |
|                       | TAXETCB field of the TAXE data area                                                                                                                                                                                              |
|                       | TCBTCB field of the TCB data area (next TCB)                                                                                                                                                                                     |
|                       | TCBJSTCB field of the TCB data area (jobstep TCB)                                                                                                                                                                                |
|                       | TCBNTC field of the TCB data area (sister TCB)                                                                                                                                                                                   |
|                       | TCBOTC field of the TCB data area (originating TCB)                                                                                                                                                                              |
|                       | TCBLTC field of the TCB data area (subtask TCB)                                                                                                                                                                                  |
|                       | TCBBACK field of the TCB data area (previous TCB)                                                                                                                                                                                |
|                       | TCCWTCB field of the TCCW data area                                                                                                                                                                                              |
|                       | TCTTCB field of the TCT data area                                                                                                                                                                                                |
|                       | TIOCLDS field of the TIOCRPT data area (line<br>disconnect TCB)                                                                                                                                                                  |
|                       | TQETCB field of the TQE data area                                                                                                                                                                                                |
|                       | TSBWTCB field of the TSB data area (waiting TCB)                                                                                                                                                                                 |
|                       | TSBCTCB field of the TSB data area (TPUT TCB)                                                                                                                                                                                    |
|                       | UCMPXA field of the UCM data area (comm task TCB)                                                                                                                                                                                |
|                       | WEBUPTR field of the WEB data area                                                                                                                                                                                               |
|                       | WQETCB field of the WQE data area                                                                                                                                                                                                |
|                       | WQEJSTCB field of the WQE data area<br>(associated jobstep TCB)                                                                                                                                                                  |
| <b>Serialization:</b> | Depends on the field                                                                                                                                                                                                             |
| <b>Function:</b>      | The task control block (TCB) serves as a repository<br>for information and pointers associated with a task.<br>Various components of the control program place<br>information in the TCB and obtain information from<br>the TCB. |

## TCB Map

| Offsets |       | Type/Value | Len | Name (Dim) | Description   |
|---------|-------|------------|-----|------------|---------------|
| Dec     | Hex   |            |     |            |               |
| -32     | (-20) | STRUCTURE  | 0   | TCBFIX     | , - TCBPTR-32 |

# TCB Map

| Offsets        |       |            |     |            |                                                                                                                                                                                 |
|----------------|-------|------------|-----|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec            | Hex   | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                     |
| -32            | (-20) | CHARACTER  | 32  | TCBFRS (0) | - FLOATING POINT REGISTER SAVE AREA                                                                                                                                             |
| -32            | (-20) | DBL WORD   | 8   | TCBFRS0    | - SAVE AREA FOR FLOATING POINT REGISTER 0                                                                                                                                       |
| -24            | (-18) | DBL WORD   | 8   | TCBFRS2    | - SAVE AREA FOR FLOATING POINT REGISTER 2                                                                                                                                       |
| -16            | (-10) | DBL WORD   | 8   | TCBFRS4    | - SAVE AREA FOR FLOATING POINT REGISTER 4                                                                                                                                       |
| -8             | (-8)  | DBL WORD   | 8   | TCBFRS6    | - SAVE AREA FOR FLOATING POINT REGISTER 6                                                                                                                                       |
| -8             | (-8)  | X'20'      | 0   | TCBPXLEN   | **TCBFIX" LENGTH OF PREFIX SECTION                                                                                                                                              |
| Comment        |       |            |     |            |                                                                                                                                                                                 |
| TCB PROPER     |       |            |     |            |                                                                                                                                                                                 |
| End of Comment |       |            |     |            |                                                                                                                                                                                 |
| 0              | (0)   | DBL WORD   | 8   | (0)        |                                                                                                                                                                                 |
| 0              | (0)   | X'20'      | 0   | TCB        | *** - TCBPTR                                                                                                                                                                    |
| 0              | (0)   | ADDRESS    | 4   | TCBRBP     | - ADDRESS OF THE RB FOR EXECUTING PROGRAM. THIS OFFSET FIXED BY ARCHITECTURE.                                                                                                   |
| 4              | (4)   | ADDRESS    | 4   | TCBPIE     | - Address of SPIE/ESPIE Control Area Ownership: RTM<br>Serialization: Local Lock                                                                                                |
| 8              | (8)   | ADDRESS    | 4   | TCBDEB     | - ADDRESS OF THE DEB QUEUE                                                                                                                                                      |
| 12             | (C)   | ADDRESS    | 4   | TCBTIO     | - ADDRESS OF THE TASK I/O TABLE (TIOT)                                                                                                                                          |
| 16             | (10)  | BITSTRING  | 4   | TCBCMP (0) | - TASK COMPLETION CODE AND INDICATORS                                                                                                                                           |
| 16             | (10)  | BITSTRING  | 1   | TCBCMPF    | - INDICATOR FLAGS                                                                                                                                                               |
|                |       | 1... ....  |     | TCBCREQ    | "X'80" - A DUMP HAS BEEN REQUESTED                                                                                                                                              |
|                |       | .1.. ....  |     | TCBCSTEP   | "X'40" - A STEP ABEND HAS BEEN REQUESTED                                                                                                                                        |
|                |       | ..1. ....  |     | TCBCPP     | "X'20" - SOME PROBLEM PROGRAM STORAGE WAS OVERLAID BY THE SECOND LOAD OF ABEND. A FIRST LOAD OVERLAY IS INDICATED IN TCBFLGS FIELD (OFFSET 29 DECIMAL). (OS/VS1)                |
|                |       | ...1 ....  |     | TCBDMPO    | "X'20" - DUMP OPTIONS WERE PROVIDED ON CALLRTM OR SETRP MACRO                                                                                                                   |
|                |       | .... 1...  |     | TCBSTCC    | "X'10" - COMPLETION CODE IS NOT TO BE STORED IN TCBCMPC (OFFSET 17 DECIMAL) IF AN ABEND IS ENCOUNTERED. THIS IS TO PREVENT AN OVERLAY OF THE ORIGINAL COMPLETION CODE. (OS/VS1) |
|                |       | .... 1..   |     | TCBNOCC    | "X'10" - A COMPLETION CODE WAS NOT PROVIDED ON CALLRTM MACRO. A DEFAULT CODE IS BEING USED.                                                                                     |
|                |       | .... 1..   |     | TCBCDBL    | "X'08" - A DOUBLE ABEND HAS OCCURRED (OS/VS1)                                                                                                                                   |
|                |       | .... .1..  |     | TCBCASID   | "X'08" - ABEND WAS SCHEDULED VIA CROSS MEMORY ABTERM                                                                                                                            |
|                |       | .... .1..  |     | TCBCWTO    | "X'04" - A DUMP MESSAGE (WTO) IS TO BE ISSUED TO THE OPERATOR (OS/VS1)                                                                                                          |
|                |       | .... .1..  |     | TCBRV316   | "X'04" - INDICATES REASON CODE (TCBARC) IS VALID                                                                                                                                |
|                |       | .... .1..  |     | TCBCIND    | "X'02" - ABEND TO OUTPUT AN INDICATIVE DUMP (OS/VS1)                                                                                                                            |
|                |       | .... ...1  |     | TCBCMSG    | "X'01" - AN ABEND MESSAGE IS PROVIDED TO BE PRINTED BY ABDUMP (OS/VS1)                                                                                                          |
| 17             | (11)  | BITSTRING  | 3   | TCBCMPC    | - SYSTEM COMPLETION CODE IN FIRST 12 BITS, USER COMPLETION CODE IN LAST 12 BITS                                                                                                 |
| 20             | (14)  | ADDRESS    | 4   | TCBTRN (0) | - ADDRESS OF TESTRAN CONTROL CORE TABLE                                                                                                                                         |
| 20             | (14)  | BITSTRING  | 1   | TCBABF     | - FLAG BYTE                                                                                                                                                                     |
|                |       | 1... ....  |     | TCBMOD91   | "X'80" - BOTH TESTRAN AND DECIMAL SIMULATOR ON A MOD 91                                                                                                                         |
|                |       | .1.. ....  |     | TCBNOCHK   | "X'40" - SUPPRESS TAKING CHECKPOINTS FOR THIS STEP (JOB STEP TCB)                                                                                                               |
|                |       | ..1. ....  |     | TCBGRPH    | "X'20" - GAM/SP ACTIVE FOR THIS TASK                                                                                                                                            |
|                |       | .... 1...  |     | TCBTCPP    | "X'08" - TCAM POST-PENDING (RORI)                                                                                                                                               |
|                |       | .... .1..  |     | TCBTCP     | "X'04" - TEST TASK - USED BY TEST SVC                                                                                                                                           |
|                |       | .... .1..  |     | TCBOLTEP   | "X'02" - OLTEP FUNCTIONS REQUIRE CLEANUP BEFORE ABNORMAL TERMINATION CAN BE INVOKED                                                                                             |
| 21             | (15)  | ADDRESS    | 3   | TCBTRNB    | - ADDRESS OF TESTRAN CONTROL CORE TABLE                                                                                                                                         |
| 24             | (18)  | ADDRESS    | 4   | TCBMSS (0) | - ADDRESS OF LAST SPQE ON MSS QUEUE                                                                                                                                             |
| 24             | (18)  | BITSTRING  | 1   | TCBTCP     | - HIGH ORDER BYTE OF TCBMSS                                                                                                                                                     |
| 25             | (19)  | ADDRESS    | 3   | TCBMSSB    | - SAME AS TCBMSS                                                                                                                                                                |



| Offsets |      |            |     |             |                                                                                                                                                                                                                    |
|---------|------|------------|-----|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)  | Description                                                                                                                                                                                                        |
| 28      | (1C) | BITSTRING  | 1   | TCBPKF      | - STORAGE PROTECTION KEY FOR THIS TASK. IF THERE IS NO STORAGE PROTECTION, ALL BITS ARE ZERO.                                                                                                                      |
|         |      | 1111 ....  |     | TCBFLAG     | "X'F0" - STORAGE PROTECTION KEY                                                                                                                                                                                    |
|         |      | .... 1111  |     | TCBZERO     | "X'0F" - MUST BE ZERO                                                                                                                                                                                              |
| 29      | (1D) | BITSTRING  | 5   | TCBFLGS (0) | - FLAG BYTE FIELDS                                                                                                                                                                                                 |
| 29      | (1D) | BITSTRING  | 1   | TCBFLGS1    | - FIRST TCB FLAG BYTE                                                                                                                                                                                              |
|         |      | 1... ....  |     | TCBFA       | "X'80" - May be on when a task is being abnormally terminated. Do NOT use this bit as an indicator in any program. It is not a GUPI, and may not be relied upon. See the TCBDYING bit for program use.             |
|         |      | .1.. ....  |     | TCBFE       | "X'40" - On when the system is calling resource managers during abnormal termination.                                                                                                                              |
|         |      | ..1. ....  |     | TCBFERA     | "X'20" - ENTER ABEND ERASE ROUTINE WHEN IN CONTROL AGAIN                                                                                                                                                           |
|         |      | ...1 ....  |     | TCBNONPR    | "X'10" - TASK IS NON-PREEMPTABLE                                                                                                                                                                                   |
|         |      | .... 1...  |     | TCBPDUMP    | "X'08" - PREVENT DUMP INDICATOR                                                                                                                                                                                    |
|         |      | .... .1..  |     | TCBFT       | "X'04" - TOP TASK IN TREE BEING ABTERMED                                                                                                                                                                           |
|         |      | .... .1.   |     | TCBFS       | "X'02" - ABTERM DUMP COMPLETED PROBLEM PROGRAM STORAGE HAS BEEN OVERLAID TO PROCESS ABEND (OS/V51)                                                                                                                 |
|         |      | .... ...1  |     | TCBFX       | "X'01" - PROHIBIT QUEUEING OF ASYNCHRONOUS EXITS FOR THIS TASK                                                                                                                                                     |
| 30      | (1E) | BITSTRING  | 1   | TCBFLGS2    | - SECOND FLAG BYTE                                                                                                                                                                                                 |
|         |      | 1... ....  |     | TCBFOINP    | "X'80" - THE TASK IS ABENDING AND IS IN THE PROCESS OF (1) OPEN FOR DUMP DATA SET PROCESSING, (2) CLOSE FOR USER DATA SET OR (3) PURGE FOR ENQ'ED RESOURCES. THIS BIT IS USED IN CONJUNCTION WITH TCBSTACK. ICB374 |
|         |      | .1.. ....  |     | TCBFSTI     | "X'40" - SECOND JOB STEP INTERVAL HAS EXPIRED (INITIATOR TCB)                                                                                                                                                      |
|         |      | ..1. ....  |     | TCBFABOP    | "X'20" - IF 1, THE SYSABEND DUMP DATA SET HAS BEEN OPENED FOR ABEND. IF 0, THE SYSUDUMP DUMP DATA SET WAS OPENED. THIS BIT IS ONLY USED FOR THE JOB STEP TCB AND IS USED IN CONJUNCTION WITH TCBFDSOP BIT. YM0651  |
|         |      | ...1 ....  |     | TCBFSMC     | "X'10" - TASK HAS ISSUED A SYSTEM-MUST-COMPLETE AND SET ALL OTHER TASKS IN THE SYSTEM NONDISPATCHABLE                                                                                                              |
|         |      | .... 1...  |     | TCBFJMC     | "X'08" - TASK HAS ISSUED A STEP-MUST-COMPLETE AND TURNED OFF ALL OTHER TASKS IN THE STEP                                                                                                                           |
|         |      | .... .1..  |     | TCBFDSOP    | "X'04" - SYSABEND OPEN FOR JOB STEP                                                                                                                                                                                |
|         |      | .... .1.   |     | TCBFETXR    | "X'02" - ETXR TO BE SCHEDULED                                                                                                                                                                                      |
|         |      | .... ...1  |     | TCBFTS      | "X'01" - THIS TASK IS A MEMBER OF A TIME-SLICED GROUP                                                                                                                                                              |
| 31      | (1F) | BITSTRING  | 1   | TCBFLGS3    | - THIRD FLAG BYTE. SERIALIZATION - TCBACTIV OR TASK NONDISPATCHABLE AND LOCAL LOCK                                                                                                                                 |
|         |      | 1... ....  |     | TCBFMS      | "X'80" - ALL PSW'S IN SUPERVISOR STATE                                                                                                                                                                             |
|         |      | .1.. ....  |     | TCBRT1S     | "X'40" - RTM1 HAS INVOKED SLIP FOR A TASK IN EUT MODE. RTM2 MAY BYPASS SLIP PROCESSING OWNERSHIP - RTM                                                                                                             |
|         |      | ..1. ....  |     | TCBABTRM    | "X'20" - ABTERM BIT TO PREVENT MULTIPLE ABENDS                                                                                                                                                                     |
|         |      | ...1 ....  |     | TCBFXSET    | "X'10" - TCBFX WAS SET BY STATUS MCSTEP                                                                                                                                                                            |
|         |      | .... .1..  |     | TCBKEY9     | "X'04" - TCB was attached using KEY=NINE and so is to be treated as having a different key than the attacher                                                                                                       |
|         |      | .... .1.   |     | TCBENQRM    | "X'02" - ENQ/DEQ RESOURCE MANAGER HAS RECEIVED CONTROL. NO FURTHER DIRECTED ENQS ALLOWED. SERIALIZATION - TCBACTIV AND CMSEQDQ CLASS LOCK. OWNERSHIP - GRS.                                                        |
|         |      | .... ...1  |     | TCBDWSTA    | "X'01" - THIS TASK WAS DETACHED WITH STAE=YES OPTION ICB315                                                                                                                                                        |
| 32      | (20) | BITSTRING  | 1   | TCBFLGS4    | - NONDISPATCHABILITY FLAGS                                                                                                                                                                                         |
|         |      | 1... ....  |     | TCBNDUMP    | "X'80" - ABDUMP NONDISPATCHABILITY INDICATOR                                                                                                                                                                       |
|         |      | .1.. ....  |     | TCBSE1      | "X'40" - SER1 NONDISPATCHABILITY INDICATOR                                                                                                                                                                         |
|         |      | ..1. ....  |     | TCBRQENA    | "X'20" - I/O RQE'S EXHAUSTED                                                                                                                                                                                       |

# TCB Map

| Offsets |      |            |     |            |                                                                                                                                                                                                                                                                                                      |
|---------|------|------------|-----|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                                                                                                          |
|         |      | ...1 ....  |     | TCBHNDSP   | "X'10" - TASK OR JOB STEP IS MOMENTARILY 'FROZEN' UNTIL THE REQUIRED RESOURCES ARE AVAILABLE. THE BIT IS SET THROUGH THE USE OF THE 'STATUS' SVC ICB453                                                                                                                                              |
|         |      | .... 1...  |     | TCBUXNDV   | "X'08" - TASK IS TEMPORARILY NONDISPATCHABLE BECAUSE SMF TIME LIMIT OR SYSOUT LIMIT USER EXIT ROUTINE IS BEING EXECUTED FOR THIS STEP                                                                                                                                                                |
|         |      | .... .1..  |     | TCBRBWF    | "X'04" - TOP RB IS IN WAIT STATE                                                                                                                                                                                                                                                                     |
|         |      | .... ...1  |     | TCBONDSP   | "X'01" - TASK TERMINATING AND NONDISPATCHABLE BECAUSE EITHER OPEN FOR DUMP DATA SET IS IN PROCESS OR CLOSE BY ABEND IS IN PROCESS                                                                                                                                                                    |
| 33      | (21) | BITSTRING  | 1   | TCBFLGS5   | - MORE NONDISPATCHABILITY FLAGS. IF ANY BIT IN THIS BYTE IS 1, THE TASK IS NONDISPATCHABLE.                                                                                                                                                                                                          |
|         |      | 1... ....  |     | TCBFC      | "X'80" - TASK TERMINATED                                                                                                                                                                                                                                                                             |
|         |      | .1.. ....  |     | TCBABWF    | "X'40" - ABNORMAL WAIT                                                                                                                                                                                                                                                                               |
|         |      | .1.. ....  |     | TCBUXNDF   | "X'40" - TASK IS TEMPORARILY NONDISPATCHABLE BECAUSE SMF TIME LIMIT OR SYSOUT LIMIT USER EXIT ROUTINE IS BEING EXECUTED FOR THIS STEP. THIS BIT IS SET TO 1 IN ALL TCB'S EXCEPT JOB STEP TCB.                                                                                                        |
|         |      | ..1. ....  |     | TCBPAGE    | (OS/VS1) ICB263<br>"X'20" - TASK IS NONDISPATCHABLE DUE TO EXCESSIVE PAGING RATE                                                                                                                                                                                                                     |
|         |      | ...1 ....  |     | TCBANDSP   | "X'10" - TASK IS TEMPORARILY NONDISPATCHABLE BECAUSE IT WAS ATTACHED UNDER THE DISP=NO OPERAND                                                                                                                                                                                                       |
|         |      | .... 1...  |     | TCBSYS     | "X'08" - ANOTHER TASK IS IN SYSTEM-MUST-COMPLETE STATUS OR A SUMMARY BIT FOR FIELD TCBSYSCT                                                                                                                                                                                                          |
|         |      | .... .1..  |     | TCBSTP     | "X'04" - ANOTHER TASK IN THIS JOB STEP IS IN STEP-MUST-COMPLETE STATUS                                                                                                                                                                                                                               |
|         |      | .... ..1.  |     | TCBFCD1    | "X'02" - INITIATOR WAITING FOR REGION                                                                                                                                                                                                                                                                |
|         |      | .... ...1  |     | TCBPNDSP   | "X'01" - PRIMARY NONDISPATCHABILITY BIT. THIS BIT IS SET TO 1 IF ANY OF THE SECONDARY NONDISPATCHABILITY BITS (OFFSETS 173, 174, 175, 200 OR 201 DECIMAL) IS SET TO 1. THIS BIT IS SET TO 0 IF A SECONDARY NONDISPATCHABILITY BIT IS SET TO 0 AND ALL OTHER SECONDARY NONDISPATCHABILITY BITS ARE 0. |
| 34      | (22) | SIGNED     | 1   | TCBLMP     | - TASK LIMIT PRIORITY                                                                                                                                                                                                                                                                                |
| 35      | (23) | SIGNED     | 1   | TCBDSP     | - DISPATCHING PRIORITY FOR THIS TASK                                                                                                                                                                                                                                                                 |
| 36      | (24) | ADDRESS    | 4   | TCBLLS     | - ADDRESS OF LAST LOAD LIST ELEMENT (LLE) IN LOAD LIST                                                                                                                                                                                                                                               |
| 40      | (28) | ADDRESS    | 4   | TCBJLB     | - ADDRESS OF A JOBLIB DCB                                                                                                                                                                                                                                                                            |
| 44      | (2C) | ADDRESS    | 4   | TCBJPQ (0) | - ADDRESS OF LAST CDE FOR JOB PACK AREA (JPA) CONTROL QUEUE                                                                                                                                                                                                                                          |
| 44      | (2C) | BITSTRING  | 1   | TCBPURGE   | - HIGH ORDER BYTE                                                                                                                                                                                                                                                                                    |
|         |      | 1... ....  |     | TCBJPQF    | "X'80" - JPQ PURGE FLAG                                                                                                                                                                                                                                                                              |
| 45      | (2D) | ADDRESS    | 3   | TCBJPQB    | - LOW ORDER 24-BITS OF TCBJPQ                                                                                                                                                                                                                                                                        |
| 48      | (30) | CHARACTER  | 64  | TCBGRS (0) | - GENERAL REGISTER SAVE AREA. THIS OFFSET FIXED BY ARCHITECTURE.                                                                                                                                                                                                                                     |
| 48      | (30) | SIGNED     | 4   | TCBGRS0    | - SAVE AREA FOR GENERAL REGISTER 0                                                                                                                                                                                                                                                                   |
| 52      | (34) | SIGNED     | 4   | TCBGRS1    | - SAVE AREA FOR GENERAL REGISTER 1                                                                                                                                                                                                                                                                   |
| 56      | (38) | SIGNED     | 4   | TCBGRS2    | - SAVE AREA FOR GENERAL REGISTER 2                                                                                                                                                                                                                                                                   |
| 60      | (3C) | SIGNED     | 4   | TCBGRS3    | - SAVE AREA FOR GENERAL REGISTER 3                                                                                                                                                                                                                                                                   |
| 64      | (40) | SIGNED     | 4   | TCBGRS4    | - SAVE AREA FOR GENERAL REGISTER 4                                                                                                                                                                                                                                                                   |
| 68      | (44) | SIGNED     | 4   | TCBGRS5    | - SAVE AREA FOR GENERAL REGISTER 5                                                                                                                                                                                                                                                                   |
| 72      | (48) | SIGNED     | 4   | TCBGRS6    | - SAVE AREA FOR GENERAL REGISTER 6                                                                                                                                                                                                                                                                   |
| 76      | (4C) | SIGNED     | 4   | TCBGRS7    | - SAVE AREA FOR GENERAL REGISTER 7                                                                                                                                                                                                                                                                   |
| 80      | (50) | SIGNED     | 4   | TCBGRS8    | - SAVE AREA FOR GENERAL REGISTER 8                                                                                                                                                                                                                                                                   |
| 84      | (54) | SIGNED     | 4   | TCBGRS9    | - SAVE AREA FOR GENERAL REGISTER 9                                                                                                                                                                                                                                                                   |
| 88      | (58) | SIGNED     | 4   | TCBGRS10   | - SAVE AREA FOR GENERAL REGISTER 10                                                                                                                                                                                                                                                                  |
| 92      | (5C) | SIGNED     | 4   | TCBGRS11   | - SAVE AREA FOR GENERAL REGISTER 11                                                                                                                                                                                                                                                                  |
| 96      | (60) | SIGNED     | 4   | TCBGRS12   | - SAVE AREA FOR GENERAL REGISTER 12                                                                                                                                                                                                                                                                  |
| 100     | (64) | SIGNED     | 4   | TCBGRS13   | - SAVE AREA FOR GENERAL REGISTER 13                                                                                                                                                                                                                                                                  |
| 104     | (68) | SIGNED     | 4   | TCBGRS14   | - SAVE AREA FOR GENERAL REGISTER 14                                                                                                                                                                                                                                                                  |

| Offsets |      |                                                                                                                  |     |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------|------|------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value                                                                                                       | Len | Name (Dim)                                                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 108     | (6C) | SIGNED                                                                                                           | 4   | TCBGRS15                                                                                              | - SAVE AREA FOR GENERAL REGISTER 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 112     | (70) | ADDRESS                                                                                                          | 4   | TCBFSA (0)                                                                                            | - ADDRESS OF THE FIRST PROBLEM PROGRAM SAVE AREA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 112     | (70) | SIGNED                                                                                                           | 1   |                                                                                                       | - FIRST BYTE OF TCBFSA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 113     | (71) | ADDRESS                                                                                                          | 3   | TCBFSA B                                                                                              | - ADDRESS OF THE FIRST PROBLEM PROGRAM SAVE AREA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 116     | (74) | ADDRESS                                                                                                          | 4   | TCBTCB                                                                                                | - Queue of TCBs in an address space. Note: The queue is not maintained in priority order.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 120     | (78) | ADDRESS<br>1... ....                                                                                             | 4   | TCBTME<br>TCBTQET                                                                                     | - ADDRESS OF THE TIMER QUEUE ELEMENT (TQE)<br>"X'80" - IF ZERO, TASK TYPE TQE. IF ONE, REAL/WAIT TYPE TQE.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 124     | (7C) | ADDRESS                                                                                                          | 4   | TCBJSTCB (0)                                                                                          | - ADDRESS OF FIRST JOB STEP TCB OR OF THIS TCB IF KEY ZERO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 124     | (7C) | BITSTRING                                                                                                        | 1   |                                                                                                       | - HIGH ORDER BYTE OF TCBJSTCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 125     | (7D) | ADDRESS                                                                                                          | 3   | TCBJSTCA                                                                                              | - LOW ORDER 24 BITS OF TCBJSTCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 128     | (80) | ADDRESS                                                                                                          | 4   | TCBNTC                                                                                                | - ADDRESS OF THE TCB FOR THE TASK PREVIOUSLY ATTACHED BY THE TASK THAT ATTACHED THIS TASK. FOR EXAMPLE, IF TASK A ATTACHED TASK B AND THEN TASK C, THIS FIELD IN TASK C'S TCB POINTS TO TASK B'S TCB, AND THIS FIELD IN TASK B'S TCB IS ZERO.                                                                                                                                                                                                                                                                                                          |
| 132     | (84) | ADDRESS                                                                                                          | 4   | TCBOTC                                                                                                | - ADDRESS OF THE TCB FOR THE TASK (THE ORIGINATING TASK) THAT ATTACHED THIS TASK. THIS FIELD IS ZERO IN THE TCB FOR A SYSTEM TASK.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 136     | (88) | ADDRESS                                                                                                          | 4   | TCBLTC                                                                                                | - ADDRESS OF THE TCB FOR THE TASK LAST ATTACHED BY THIS TASK. NOTE - IF A TASK (THE ORIGINATING TASK) HAS ATTACHED OTHER TASKS, THE TCB'S FOR THE OTHER TASKS ARE ON THE SUBTASK QUEUE OF THE ORIGINATING TASK. TCBLTC IN THE TCB FOR THE ORIGINATING TASK POINTS TO THE LAST TCB (THE TCB FOR THE LAST ATTACHED TASK) IN THE SUBTASK QUEUE. IN EACH TCB ON THE SUBTASK QUEUE, EXCEPT THE FIRST TCB, TCBNTC POINTS TO THE PRECEDING TCB ON THE QUEUE.                                                                                                  |
| 140     | (8C) | ADDRESS                                                                                                          | 4   | TCBIQE                                                                                                | - ADDRESS OF AN INTERRUPTION QUEUE ELEMENT (IQE) FOR SCHEDULING THE ETXR ROUTINE OF THE TASK THAT ATTACHED THIS TASK.                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 144     | (90) | ADDRESS                                                                                                          | 4   | TCBECB                                                                                                | - ADDRESS OF THE ECB THAT WILL BE POSTED BY THE SUPERVISOR'S TASK TERMINATION ROUTINES WHEN NORMAL OR ABNORMAL TERMINATION OCCURS.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 148     | (94) | BITSTRING<br>1... ....<br>.1.. ....<br><br>..1. ....<br><br>...1 ....<br>.... 1...<br>.... ..1.<br><br>.... ...1 | 1   | TCBTSFLG<br>TCBTSTSK<br>TCBSTPPR<br><br>TCBATT<br><br>TCBTIOTG<br>TCBSMCP<br>TCBDYDSP<br><br>TCBCPUBN | - TIME SHARING FLAGS<br>"X'80" - SWAPPED TIME SHARING TASK (OS/V51)<br>"X'40" - TASK SHOULD BE MADE NONDISPATCHABLE VIA TCBSTPP WHEN IT IS NO LONGER RUNNING A PRIVILEGED PROGRAM<br>"X'20" - TASK SHOULD NOT HAVE ATTENTION EXITS SCHEDULED ON IT BY EXIT EFFECTOR. THIS OFFSET FIXED BY ARCHITECTURE.<br>"X'10" - PURGE TGET/TPUT AFTER ATTENTION<br>"X'08" - STATUS MCSTEP PENDING, TASK IS SUSPENDED<br>"X'02" - M195 TASK IS MEMBER OF DYNAMIC DISPATCHING GROUP ICB262<br>"X'01" - FOR M195, ZERO MEANS I/O BOUND AND ONE MEANS CPU BOUND ICB262 |
| 149     | (95) | SIGNED                                                                                                           | 1   | TCBSTPCT                                                                                              | - NUMBER OF SETTASK STARTS WHICH MUST BE ISSUED BEFORE TASK IS MADE DISPATCHABLE - FIELD NOT RESTRICTED TO TSO                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 150     | (96) | SIGNED                                                                                                           | 1   | TCBTSLP                                                                                               | - LIMIT PRIORITY OF TIME SHARING TASK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 151     | (97) | BITSTRING                                                                                                        | 1   | TCBTSDP                                                                                               | - DISPATCHING PRIORITY OF TIME SHARING TASK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 152     | (98) | ADDRESS                                                                                                          | 4   | TCBRD                                                                                                 | POINTER TO DPQE MINUS 8 FOR THE JOB STEP SERIALIZATION - THE LOCAL LOCK. OWNERSHIP - VSM.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 152     | (98) | X'B8'                                                                                                            | 0   | TCBPQE                                                                                                | "TCBRD" SAME AS TCBRD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 156     | (9C) | ADDRESS                                                                                                          | 4   | TCBAE                                                                                                 | LIST ORIGIN OF AQE(S) FOR THIS TASK SERIALIZATION - THE LOCAL LOCK. OWNERSHIP - VSM.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 156     | (9C) | X'BC'                                                                                                            | 0   | TCBAQE                                                                                                | "TCBAE" SAME AS TCBAE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## TCB Map

| Offsets |      |            |     |              |                                                                                                                                                                                                                          |
|---------|------|------------|-----|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                                                                                                                              |
| 160     | (A0) | ADDRESS    | 4   | TCBSTAB (0)  | - ADDRESS OF THE CURRENT STAE CONTROL BLOCK                                                                                                                                                                              |
| 160     | (A0) | BITSTRING  | 1   | TCBNSTAE     | - FLAGS INTERNAL TO STAE ROUTINE                                                                                                                                                                                         |
|         |      | 1... ....  |     | TCBSTABE     | "X'80" - ABEND ENTERED BECAUSE OF ERROR IN STAE PROCESSING                                                                                                                                                               |
|         |      | .1.. ....  |     | TCBQUIES     | "X'40" - STAE INVOKED PURGE I/O ROUTINE WITH QUIESCE I/O OPTION                                                                                                                                                          |
|         |      | ..1. ....  |     | TCB33E       | "X'20" - A 33E ABEND HAS OCCURRED FOR TASK                                                                                                                                                                               |
|         |      | ...1 ....  |     | TCBPPSUP     | "X'10" - 1=SUPERVISOR MODE,0=PROBLEM PROGRAM MODE INDICATOR TO SYNCH OF THE MODE OF THE USER EXIT                                                                                                                        |
|         |      | .... 1...  |     | TCBHALT      | "X'08" - PURGE I/O ROUTINE DID NOT SUCCESSFULLY QUIESCE I/O, BUT I/O WAS HALTED                                                                                                                                          |
|         |      | .... .1..  |     | TCBSYNCH     | "X'04" - SYNCH ISSUED BY ASIR TO SCHEDULE EXIT ROUTINE                                                                                                                                                                   |
|         |      | .... ...1  |     | TCBSTCUR     | "X'01" - STAE RECURSION VALID ICB443                                                                                                                                                                                     |
| 161     | (A1) | ADDRESS    | 3   | TCBSTABB     | - ADDRESS OF THE CURRENT STAE CONTROL BLOCK                                                                                                                                                                              |
| 164     | (A4) | ADDRESS    | 4   | TCBTCT (0)   | - ADDRESS OF THE TIMING CONTROL TABLE (TCT) IF SYSTEM MANAGEMENT FACILITIES (SMF) DATA IS BEING COLLECTED FOR THE TASK. ZERO IF SMF DATA IS NOT BEING COLLECTED FOR THE TASK. SERIALIZATION: LOCAL LOCK.                 |
| 164     | (A4) | BITSTRING  | 1   | TCBTCTGF     | - FLAG BYTE FOR TIMING CONTROL TABLE ICB318                                                                                                                                                                              |
|         |      | 1... ....  |     | TCBSMFGF     | "X'80" - IF ZERO, THE TCT CORE TABLE IS NOT TO BE UPDATED BY GETMAIN/FREEMAIN. IF ONE, THE TCT CORE TABLE IS TO BE UPDATED BY GETMAIN/FREEMAIN. ICB318                                                                   |
| 165     | (A5) | ADDRESS    | 3   | TCBTCTB      | - ADDRESS OF THE TIMING CONTROL TABLE (TCT) IF SYSTEM MANAGEMENT FACILITIES (SMF) DATA IS BEING COLLECTED FOR THE TASK. ZERO IF SMF DATA IS NOT BEING COLLECTED FOR THE TASK OR FOR OS/VS1, IF SMF IS NOT IN THE SYSTEM. |
| 168     | (A8) | ADDRESS    | 4   | TCBUSER      | - A WORD AVAILABLE TO THE USER                                                                                                                                                                                           |
| 172     | (AC) | BITSTRING  | 4   | TCBSCNDY (0) | - SECONDARY NONDISPATCHABILITY BITS. IF ANY BIT IN THE FOLLOWING FOUR BYTES IS 1, THE PRIMARY NONDISPATCHABILITY BIT (OFFSET 33.7 DECIMAL) IS 1, AND THE TASK IS NONDISPATCHABLE.                                        |
| 172     | (AC) | BITSTRING  | 4   | TCBNDSP (0)  | - SAME AS TCBSCNDY                                                                                                                                                                                                       |
| 172     | (AC) | BITSTRING  | 1   | TCBNDSP0     | - BYTE 0                                                                                                                                                                                                                 |
| 173     | (AD) | BITSTRING  | 1   | TCBNDSP1     | - BYTE 1                                                                                                                                                                                                                 |
|         |      | 1... ....  |     | TCBDARTN     | "X'80" - THE TASK IS TEMPORARILY NONDISPATCHABLE - DAMAGE ASSESSMENT ROUTINE (DAR)                                                                                                                                       |
| 173     | (AD) | X'80'      | 0   | TNONDISP     | "TCBDARTN" * ALIAS *                                                                                                                                                                                                     |
|         |      | .1.. ....  |     | TCBDARPN     | "X'40" - THE TASK IS PERMANENTLY NONDISPATCHABLE - DAMAGE ASSESSMENT ROUTINE (DAR)                                                                                                                                       |
| 173     | (AD) | X'40'      | 0   | PNONDISP     | "TCBDARPN" * ALIAS *                                                                                                                                                                                                     |
|         |      | ..1. ....  |     | TCBRSTND     | "X'20" - THE TASK IS TEMPORARILY NONDISPATCHABLE - RECOVERY MANAGEMENT SUPPORT AND SYSTEM ERROR RECOVERY (RMS/SER)                                                                                                       |
|         |      | ...1 ....  |     | TCBRSPND     | "X'10" - THE TASK IS PERMANENTLY NONDISPATCHABLE - RECOVERY MANAGEMENT SUPPORT AND SYSTEM ERROR RECOVERY (RMS/SER) (IF THIS BIT IS ON THEN THE PREVIOUS BIT MUST BE ON TOO)                                              |
|         |      | .... 1...  |     | TCBDDRND     | "X'08" - THE TASK IS IN DEVICE ALLOCATION AND DYNAMIC DEVICE RECONFIGURATION (DDR) HAS MADE IT NONDISPATCHABLE - RECOVERY MANAGEMENT SUPPORT AND SYSTEM ERROR RECOVERY (RMS/SER) (OS/VS1)                                |
|         |      | .... .1..  |     | TCBTPSP      | "X'04" - DISPATCHING OF TCAM TASK MUST BE DELAYED UNTIL TCAM I/O APPENDAGE OR SVC ROUTINE HAS COMPLETED EXECUTION (TCAM IN MULTIPROCESSING ENVIRONMENT)                                                                  |
|         |      | .... ...1. |     | TCBPIEND     | "X'02" - SRB IS TO BE SCHEDULED TO PERFORM PIE/PICA PROCESSING (FIRST LEVEL INTERRUPT HANDLER)                                                                                                                           |

| Offsets |      |            |     |             |                                                                                                                                                                        |
|---------|------|------------|-----|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)  | Description                                                                                                                                                            |
|         |      | .... ...1  |     | TCBABTIN    | "X'01" - THE TASK IS TEMPORARILY NONDISPATCHABLE WHILE BEING SET UP FOR ABTERM                                                                                         |
| 174     | (AE) | BITSTRING  | 1   | TCBNDSP2    | - BYTE 2                                                                                                                                                               |
|         |      | 1... ....  |     | TCBABD      | "X'80" - ABDUMP IS PROCESSING (OS/V51)                                                                                                                                 |
|         |      | .1... .... |     | TCBSTPP     | "X'40" - TASK SET NONDISPATCHABLE BY SETTASK                                                                                                                           |
|         |      | ..1. ....  |     | TCBNDSVC    | "X'20" - TASK IS NONDISPATCHABLE BECAUSE SVC DUMP IS EXECUTING FOR ANOTHER TASK                                                                                        |
|         |      | ...1 ....  |     | TCBNDSVC    | "X'10" - TASK IS NONDISPATCHABLE BECAUSE IT IS BEING SWAPPED OUT                                                                                                       |
|         |      | .... 1...  |     | TCBIWAIT    | "X'08" - TASK IS NONDISPATCHABLE DUE TO AN INPUT WAIT                                                                                                                  |
|         |      | .... .1..  |     | TCBOWAIT    | "X'04" - TASK IS NONDISPATCHABLE DUE TO AN OUTPUT WAIT                                                                                                                 |
|         |      | .... ..1.  |     | TCBDSS      | "X'02" - DYNAMIC SUPPORT SYSTEM (DSS) HAS SET THIS TASK NONDISPATCHABLE ICB313                                                                                         |
|         |      | .... ...1  |     | TCBABE      | "X'01" - ABEND ROUTINE WAS ENTERED FOR THIS TASK WHILE THE DCB FOR SYSABEND (OR SYSUDUMP) DATA SET WAS BEING OPENED FOR ANOTHER TASK (OS/V51)                          |
| 175     | (AF) | BITSTRING  | 1   | TCBNDSP3    | - BYTE 3                                                                                                                                                               |
|         |      | 1... ....  |     | TCBLJSND    | "X'80" - TASK IS ABENDING AND NONDISPATCHABLE BECAUSE IT HAS A JOB STEP SUBTASK. TCBONDSP MUST ALSO BE ON.                                                             |
|         |      | .1... .... |     | TCBNDNYI    | "X'40" - RCT TASK IS NONDISPATCHABLE BECAUSE ADDRESS SPACE IS NOT YET INITIALIZED FULLY                                                                                |
|         |      | ..1. ....  |     | TCBSRBND    | "X'20" - TCB NONDISPATCHABLE BECAUSE SRB'S ARE STOPPED                                                                                                                 |
|         |      | ...1 ....  |     | TCBSLPER    | "X'10" - SET NONDISPATCHABLE SO THAT SLIP/PER CAN ALTER RB PSW PER BIT                                                                                                 |
|         |      | .... 1...  |     | TCBS3MR     | "X'08" - STAGE 3 EXIT EFFECTOR MUST RUN TO SYNCHRONIZE ATTENTION INTERRUPT                                                                                             |
|         |      | .... .1..  |     | TCBAREQ     | "X'04" - TSO AUTHORIZED REQUEST PROCESSING ACTIVE                                                                                                                      |
|         |      | .... ..1.  |     | TCBNDSMF    | "X'02" - Indicates task is stopped because its CPU or continuous wait time has been exceeded. SMF determines whether to grant extension or abend task. Ownership: SMF. |
|         |      | .... ...1  |     | TCBNDINT    | "X'01" - INITIATOR SETS THIS BIT TO PREVENT JOB STEP EXECUTION IN ORDER TO DO CANCEL PROCESSING (CAN CANCEL LOOP)                                                      |
| 176     | (B0) | SIGNED     | 4   | TCBMDIDS    | - RESERVED FOR MODEL-DEPENDENT SUPPORT AND FOR IBM PROPRIETARY PROGRAMMING SUPPORT ICBXXX                                                                              |
| 180     | (B4) | ADDRESS    | 4   | TCBJSCB (0) | - ADDRESS OF THE JOB STEP CONTROL BLOCK                                                                                                                                |
| 180     | (B4) | BITSTRING  | 1   | TCBRECDE    | - ABEND RECURSION BYTE ICB456                                                                                                                                          |
|         |      | 1... ....  |     | TCBREC      | "X'80" - VALID REENTRY TO ABEND IF NON-ZERO VALUE IN FOLLOWING 7 BITS ICB456                                                                                           |
|         |      | .... ...1  |     | TCBOPEN     | "X'01" - OPEN DUMP DATA SET ICB456                                                                                                                                     |
|         |      | .... ..1.  |     | TCBCLOSD    | "X'02" - CLOSE DIRECT SYSOUT ON TAPE ICB456                                                                                                                            |
|         |      | .... ...11 |     | TCBCLOSE    | "X'03" - CLOSE OPEN DATA SETS ICB456                                                                                                                                   |
|         |      | .... .1..  |     | TCBCLOSF    | "X'04" - RESERVED. ICB456                                                                                                                                              |
|         |      | .... .1.1  |     | TCBGREC     | "X'05" - GRAPHICS ICB456                                                                                                                                               |
|         |      | .... ..111 |     | TCBADUMP    | "X'07" - ABDUMP ICB456                                                                                                                                                 |
|         |      | .... 1...  |     | TCBPTAXE    | "X'08" - PURGE TAXE ICB456                                                                                                                                             |
|         |      | .... 1..1  |     | TCBMESG     | "X'09" - MESSAGE RECURSION ICB456                                                                                                                                      |
|         |      | .... 1.1.  |     | TCBDYNAM    | "X'0A" - DD-DYNAM TIOT CLEANUP ICB456                                                                                                                                  |
|         |      | .... 1.11  |     | TCBDAMSG    | "X'0B" - ABEND IS ISSUING A WTOR ASKING WHETHER THE JOB STEP TASK SHOULD WAIT FOR THE DUMP AREA (OS/V51)                                                               |
|         |      | .... 11..  |     | TCBQTIP     | "X'0C" - PURGE TSO INTERPARTITION POSTS ICB456                                                                                                                         |
|         |      | .... 11.1  |     | TCBTCAMP    | "X'0D" - PURGE TCAM INTERPARTITION POSTS ICB456                                                                                                                        |
|         |      | .... 111.  |     | TCBINDRC    | "X'0E" - INDICATIVE DUMP (LOAD 8 OF ABEND) HAS ABENDED. ABEND WILL HANDLE THIS ABEND. (OS/V51)                                                                         |
|         |      | .... 1111  |     | TCBSAVCD    | "X'0F" - ASIR RECURSION. SAVE OLD COMPLETION CODE ICB456                                                                                                               |
|         |      | ...1 ....  |     | TCBTYP1W    | "X'10" - TYPE 1 MESSAGE WRITE TO PROGRAMMER ICB456                                                                                                                     |

# TCB Map

| Offsets |      | Type/Value | Len | Name (Dim)  | Description                                                                                                                                                                                                                                                               |
|---------|------|------------|-----|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  |            |     |             |                                                                                                                                                                                                                                                                           |
|         |      | ..1. ....  |     | TCBWTPSE    | "X'20" - WRITE-TO-PROGRAMMER (WTP) FAILED. JOB STEP TIMER EXPIRED DURING JOB STEP ABEND AND THE STAE EXIT IS DENIED. (OS/VS1)                                                                                                                                             |
|         |      | ..1. ...1  |     | TCBVTAM1    | "X'21" - ABEND IS ENTERING FIRST VTAM INTERFACE, ISTRAAA1, FOR TERMINATION OF TASK OR SUBTASK (OS/VS1)                                                                                                                                                                    |
|         |      | ..1. ..1.  |     | TCBVTAM2    | "X'22" - ABEND IS ENTERING SECOND VTAM INTERFACE, ISTRAAA2, BECAUSE ISTRAAA1 ABENDED (OS/VS1)                                                                                                                                                                             |
|         |      | ..1. ..11  |     | TCBVTAM3    | "X'23" - ABEND IS ENTERING FIRST VTAM INTERFACE, ISTRAAA0, BECAUSE VTAM ABENDED (OS/VS1)                                                                                                                                                                                  |
|         |      | ..1. .1..  |     | TCBVTAM4    | "X'24" - ABEND IS ENTERING SECOND VTAM INTERFACE, ISTRAAA2, BECAUSE ISTRAAA0 ABENDED (OS/VS1)                                                                                                                                                                             |
|         |      | ..11 ....  |     | TCBNOSTA    | "X'30" - STAE/STAI NOT TO BE HONORED ICB456                                                                                                                                                                                                                               |
|         |      | ..11 ...1  |     | TCBSTRET    | "X'31" - RETURN FROM DUMP PROCESSING ICB456                                                                                                                                                                                                                               |
|         |      | ..11 ..1.  |     | TCBCONVR    | "X'32" - CONVERT TO STEP ABEND ICB456                                                                                                                                                                                                                                     |
|         |      | ..11 ..11  |     | TCBDARET    | "X'33" - RETURN FROM DAMAGE ASSESSMENT ROUTINES ICB456                                                                                                                                                                                                                    |
|         |      | ..11 .1..  |     | TCBTYP1R    | "X'34" - RETURN FROM TYPE 1 MESSAGE MODULE ICB456                                                                                                                                                                                                                         |
|         |      | ..11 .1.1  |     | TCBNEWRB    | "X'35" - ABEND ISSUED SVC 13 TO TRANSFER CONTROL (XCTL) TO A NON-ABEND MODULE ICB456                                                                                                                                                                                      |
|         |      | .1.. ....  |     | TCBMCCNS    | "X'40" - A MUST COMPLETE TASK HAS ABNORMALLY TERMINATED WITHOUT ENOUGH STORAGE FOR 2 RB'S FOR A WTOR ASKING WHETHER THE TASK'S RESOURCES ARE CRITICAL. THE RESOURCES ARE ASSUMED TO BE CRITICAL, AND THE PARTITION IS MARKED PERMANENTLY NONDISPATCHABLE. (OS/VS1) ICB492 |
| 181     | (B5) | ADDRESS    | 3   | TCBJSCBB    | - ADDRESS OF THE JOB STEP CONTROL BLOCK                                                                                                                                                                                                                                   |
| 184     | (B8) | ADDRESS    | 4   | TCBSSAT     | - ADDRESS OF THE SUBSYSTEM AFFINITY TABLE (SSAT). SERIALIZATION - TCBACTIV. OWNERSHIP - TASK MANAGEMENT.                                                                                                                                                                  |
| 188     | (BC) | ADDRESS    | 4   | TCBIOBRC    | - ADDRESS OF IOB RESTORE CHAIN FOR I/O QUIESCED BY EOT YM2840                                                                                                                                                                                                             |
| 192     | (C0) | ADDRESS    | 4   | TCBEXCPD    | - ADDRESS OF EXCP DEBUG AREA YM4297                                                                                                                                                                                                                                       |
| 196     | (C4) | ADDRESS    | 4   | TCBEXT1 (0) | - ADDRESS OF OS-OS/VS COMMON TCB EXTENSION ICB311                                                                                                                                                                                                                         |
| 196     | (C4) | BITSTRING  | 1   |             | - RESERVED.                                                                                                                                                                                                                                                               |
| 197     | (C5) | ADDRESS    | 3   | TCBEXT1A    | - ADDRESS OF OS-OS/VS COMMON TCB EXTENSION ICB311                                                                                                                                                                                                                         |

Comment

OS/VS1 - OS/VS2 COMMON SECTION

End of Comment

|     |      |           |   |             |                                                                                                                                                                              |
|-----|------|-----------|---|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200 | (C8) | BITSTRING | 4 | TCBBITS (0) | - FLAG BYTES. IF A BIT IN THE FOLLOWING TWO BYTES IS SET TO 1, THE PRIMARY NONDISPATCHABILITY BIT (OFFSET 33.7 DECIMAL) IS SET TO 1, AND THE TASK IS NONDISPATCHABLE.        |
| 200 | (C8) | BITSTRING | 1 | TCBNDSP4    | - SECONDARY NONDISPATCHABILITY FLAGS COMMON TO OS/VS1 AND OS/VS2. COORDINATED WITH PRIMARY NONDISPATCHABILITY FLAG TCBPNDSP. THIS BYTE IS NOT CURRENTLY SUPPORTED BY OS/VS2. |
| 201 | (C9) | BITSTRING | 1 | TCBNDSP5    | - SECONDARY NONDISPATCHABILITY FLAGS UNIQUE TO OS/VS1 OR OS/VS2. COORDINATED WITH PRIMARY NONDISPATCHABILITY FLAG TCBPNDSP. THIS BYTE IS NOT CURRENTLY SUPPORTED BY OS/VS2.  |
| 202 | (CA) | BITSTRING | 1 | TCBFLGS6    | - TASK-RELATED FLAGS                                                                                                                                                         |
|     |      | 1... .... |   | TCBRV       | "X'80" - THE PARTITION IS FIXED IN REAL STORAGE. VIRTUAL ADDRESSES ARE EQUAL TO REAL ADDRESSES.                                                                              |
|     |      | .1.. .... |   | TCBPIE17    | "X'40" - PAGE FAULT INTERRUPT IS TO BE PASSED TO THE TASK'S INTERRUPT EXIT AND AN 8-BYTE PICA IS IN EFFECT FOR THIS TASK ICB339                                              |
|     |      | ..1. .... |   | TCBCPU      | "X'20" - TASK IS CPU-BOUND MEMBER OF AUTOMATIC PRIORITY GROUP (APG)                                                                                                          |

| Offsets |      |            |     |             |                                                                                                                                               |
|---------|------|------------|-----|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)  | Description                                                                                                                                   |
|         |      | ...1 ....  |     | TCBSPVLK    | "X'10" - TASK SCHEDULED FOR ABTERM WHILE OWNING SUPERVISOR LOCK                                                                               |
|         |      | .... .1..  |     | TCBMIGR     | "X'04" - REGION SELECTED FOR MIGRATION FROM PRIMARY PAGING DEVICE                                                                             |
|         |      | .... .1.   |     | TCBAPG      | "X'02" - TASK IS IN AUTOMATIC PRIORITY GROUP (APG)                                                                                            |
|         |      | .... ...1  |     | TCBNTJS     | "X'01" - JOB STEP TASK BUT NOT HIGHEST IN FAILING TREE                                                                                        |
| 203     | (CB) | BITSTRING  | 1   | TCBFLGS7    | - TASK-RELATED FLAGS                                                                                                                          |
|         |      | 1... ....  |     | TCBGPECB    | "X'80" - TASK IS IN AN ECB WAIT FOR A GETPART ICB339                                                                                          |
|         |      | ..1. ....  |     | TCBSVCSP    | "X'20" - IF 1, SVC SCREENING IS TO BE PROPAGATED TO SUBTASKS                                                                                  |
|         |      | ...1 ....  |     | TCBSTACK    | "X'10" - SET IN JOB STEP TCB TO INDICATE THAT A TASK IN THE JOB STEP IS IN SERIAL ABEND PROCESSING. USED IN CONJUNCTION WITH TCBFOINP. ICB374 |
|         |      | .... 1...  |     | TCBSVCS     | "X'08" - IF 1, SVC SCREENING IS REQUIRED FOR THE TASK. THIS OFFSET FIXED BY ARCHITECTURE.                                                     |
|         |      | .... .1..  |     | TCBRSTSK    | "X'04" - RESIDENT SYSTEM TASK                                                                                                                 |
|         |      | .... .1.   |     | TCBADMP     | "X'02" - ALL OTHER TASKS IN JOB STEP HAVE BEEN SET NONDISPATCHABLE BY ABDUMP. THIS BIT IS SET TO CONTROL JOB STEP DURING THE DUMPING PROCESS. |
|         |      | .... ...1  |     | TCBGTOFM    | "X'01" - GENERALIZED TRACE FACILITY (GTF) TRACING HAS BEEN TEMPORARILY DISABLED UNDER THIS TASK ICB402                                        |
| 204     | (CC) | BITSTRING  | 1   | TCBDAR      | - DAMAGE ASSESSMENT ROUTINE (DAR) FLAGS                                                                                                       |
|         |      | 1... ....  |     | TCBDARP     | "X'80" - PRIMARY DAR RECURSION. DAR HAS BEEN ENTERED FOR THIS TASK.                                                                           |
|         |      | .1.. ....  |     | TCBDARS     | "X'40" - SECONDARY DAR RECURSION. IF DAR IS REENTERED, THIS TASK WILL BE SET NONDISPATCHABLE.                                                 |
|         |      | ..1. ....  |     | TCBDARD     | "X'20" - A DUMP HAS BEEN REQUESTED FOR A WRITER OR SCHEDULER ABEND, AND THE USER HAS PROVIDED NO SYSABEND DD CARD (OS/VS1)                    |
|         |      | ...1 ....  |     | TCBDARC     | "X'10" - RECURSION PERMITTED IN CLOSE - AFTER DAR PROCESSING COMPLETED (PCP)                                                                  |
|         |      | ...1 ....  |     | TCBDARMC    | "X'10" - DAR HAS BEEN ENTERED TO HANDLE A VALID RECURSION IN MUST-COMplete STATUS THROUGH ABEND ICB264                                        |
|         |      | .... 1...  |     | TCBDARO     | "X'08" - SYSTEM ERROR TASK IS FAILING. DAR DUMP SHOULD NOT REQUEST ANY ERROR RECOVERY PROCEDURE (ERP) PROCESSING.                             |
|         |      | .... .1..  |     | TCBDARWT    | "X'04" - A WTO OPERATION WITH A 'REINSTATEMENT FAILURE' MESSAGE IS IN PROCESS FOR DAR ICB264                                                  |
|         |      | .... .1.   |     | TCBDARMS    | "X'02" - WTO OPERATION WITH A 'DAR IN PROGRESS' MESSAGE IS IN PROCESS FOR DAR (OS/VS1)                                                        |
|         |      | .... ...1  |     | TCBXSVC     | "X'01" - THE DUMP SVC ROUTINE IS EXECUTING FOR THIS TASK                                                                                      |
| 205     | (CD) | BITSTRING  | 1   | TCBRVS37    | - RESERVED FOR USER                                                                                                                           |
| 206     | (CE) | SIGNED     | 1   | TCBSYSCT    | - NUMBER OF OUTSTANDING SYSTEM-MUST-COMplete REQUESTS (ICB497) YM3883                                                                         |
| 207     | (CF) | SIGNED     | 1   | TCBSTMCT    | - NUMBER OF OUTSTANDING STEP-MUST-COMplete REQUESTS (ICB497) YM3883                                                                           |
| 208     | (D0) | ADDRESS    | 4   | TCBEXT2 (0) | - ADDRESS OF OS/VS1 - OS/VS2 COMMON EXTENSION ICB311                                                                                          |
| 208     | (D0) | BITSTRING  | 1   |             | - FIRST BYTE OF TCBEXT2                                                                                                                       |
| 209     | (D1) | ADDRESS    | 3   | TCBEXT2A    | - ADDRESS OF OS/VS1 - OS/VS2 COMMON EXTENSION ICB311                                                                                          |

Comment

OS/VS2 TCB OVERLAY

End of Comment

# TCB Map

| Offsets |      |            |     |             |                                                                                                                                                                                                                                  |
|---------|------|------------|-----|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)  | Description                                                                                                                                                                                                                      |
| 212     | (D4) | SIGNED     | 4   | TCBAECB     | - ABEND ECB. POSTED BY A MOTHER TASK IN RTM2 PROCESSING WHEN A DAUGHTER IS WAITING TO TERMINATE IT.                                                                                                                              |
| 216     | (D8) | ADDRESS    | 4   | TCBXS       | - ADDRESS OF CURRENT XSB FOR TASK. SERIALIZATION                                                                                                                                                                                 |
| 220     | (DC) | ADDRESS    | 4   | TCBBACK     | - TCBACTIV. OWNERSHIP - SUPERVISOR.<br>- ADDRESS OF PREVIOUS TCB ON READY QUEUE. ZERO IN TOP TCB.                                                                                                                                |
| 224     | (E0) | ADDRESS    | 4   | TCBRTWA     | - POINTER TO CURRENT RTM2 WORK AREA                                                                                                                                                                                              |
| 228     | (E4) | ADDRESS    | 4   | TCBNSSP     | - NORMAL STACK SAVE AREA POINTER. SERIALIZATION - TCBACTIV. OWNERSHIP - SUPERVISOR.                                                                                                                                              |
|         |      | 1... ....  |     | TCBNSSQA    | "X'80" - NORMAL STACK SAVED IN SQA INDICATOR.                                                                                                                                                                                    |
| 232     | (E8) | ADDRESS    | 4   | TCBXLAS     | - ASCB ADDRESS OF THE CML LOCK HELD WHILE TCB SUSPENDED OR INTERRUPTED. SERIALIZATION - TCBACTIV. OWNERSHIP - SUPERVISOR.                                                                                                        |
| 236     | (EC) | CHARACTER  | 1   | TCBABCUR    | - ABEND RECURSION BYTE                                                                                                                                                                                                           |
| 237     | (ED) | SIGNED     | 1   | TCBFJMCT    | - NUMBER OF OUTSTANDING STEP-MUST-COMplete REQUESTS ISSUED BY THE TASK                                                                                                                                                           |
| 238     | (EE) | CHARACTER  | 1   | TCBTID      | - The task identifier as specified on the TID parameter of ATTACH or ATTACHX. The following task identifiers are for internal use only:                                                                                          |
| 238     | (EE) | X'FF'      | 0   | TCBPAGID    | "255" - ID FOR PAGING SUPERVISOR TASK ICB403                                                                                                                                                                                     |
| 238     | (EE) | X'FE'      | 0   | TCBSYERR    | "254" - ID FOR SYSTEM ERROR TASK ICB403                                                                                                                                                                                          |
| 238     | (EE) | X'FD'      | 0   | TCBCOMM     | "253" - ID FOR COMMUNICATIONS TASK ICB403                                                                                                                                                                                        |
| 238     | (EE) | X'FC'      | 0   | TCBIORMS    | "252" - ID FOR I/O RMS TASK ICB403                                                                                                                                                                                               |
| 238     | (EE) | X'FB'      | 0   | TCBMASTR    | "251" - ID FOR MASTER SCHEDULER TASK ICB403                                                                                                                                                                                      |
| 238     | (EE) | X'FA'      | 0   | TCBJES      | "250" - ID FOR JOB ENTRY SUBSYSTEM (JES) MONITOR TASK ICB403                                                                                                                                                                     |
| 238     | (EE) | X'F9'      | 0   | TCBDSSID    | "249" - ID FOR DYNAMIC SUPPORT SYSTEM (DSS) TASK ICB403                                                                                                                                                                          |
| 238     | (EE) | X'F8'      | 0   | TCBLOGID    | "248" - ID FOR SYSTEM LOG TASK                                                                                                                                                                                                   |
| 239     | (EF) | BITSTRING  | 1   | TCBFLGS8    | - GUPI FLAG BYTE FIELD SERIALIZATION - TCBACTIV (Must be running under this TCB when updating this field.)                                                                                                                       |
|         |      | 1... ....  |     | TCBDYING    | "X'80" - IF ON, INDICATES THAT THE SYSTEM HAS DETERMINED THAT THIS TASK WILL BE TERMINATING (NORMALLY OR ABNORMALLY) AND ITS MAINLINE PROCESSING WILL NOT BE ALLOWED TO RUN AGAIN. OWNERSHIP - RTM.                              |
|         |      | .1.. ....  |     | TCBNOIRB    | "X'40" - If on, IRBs will not be queued to this TCB. A program setting this flag MUST save its current value and restore that value either when that program can tolerate IRBs being queued or before the current RB terminates. |
|         |      | ..1. ....  |     | TCBJTCBA    | "X'20" - If on, this is the attach of the JSTCB by the initiator                                                                                                                                                                 |
| 240     | (F0) | SIGNED     | 4   | TCBXSCT (0) | - DISPATCHER INTERSECT CONTROL WORD                                                                                                                                                                                              |
| 240     | (F0) | BITSTRING  | 1   | TCBXSCT1    | - FLAG BYTE                                                                                                                                                                                                                      |
|         |      | 1... ....  |     | TCBACTIV    | "X'80" - BIT ON MEANS THIS TCB IS CURRENTLY ACTIVE ON A CPU. USED TO SYNCHRONIZE SOME STATUS SAVING AND DISPATCHABILITY INDICATORS WHEN ACTIVE OR NOT UNDER THE LOCAL LOCK.                                                      |
|         |      | .1.. ....  |     | TCBS3A      | "X'40" - STAGE 3 EXIT EFFECTOR/RESUME/TCTL INTERSECT FLAG                                                                                                                                                                        |
|         |      | ..1. ....  |     | TCBLLREQ    | "X'20" - TASK REQUESTED LOCAL LOCK                                                                                                                                                                                               |
|         |      | .... 1...  |     | TCBTDORM    | "X'08" - Turned on to detect dormant Tasks by Parallel Detach processing. Turned off by the Dispatcher during Task dispatch                                                                                                      |
| 241     | (F1) | BITSTRING  | 1   | TCBXSCT2    | - FLAG BYTE                                                                                                                                                                                                                      |
|         |      | 1... ....  |     | TCBCMLF     | "X'80" - CML RESOURCE MANAGER PROCESSING COMPLETE FOR THIS CML LOCK HOLDER.                                                                                                                                                      |
|         |      | .1.. ....  |     | TCBLLNEW    | "X'40" - Lock Manager has given this task the local lock, but its status is in the TCB, not the IHSA. SERIALIZATION: TCBACTIV OWNERSHIP: Task Management                                                                         |
| 242     | (F2) | SIGNED     | 2   | TCBCCPVI    | - ID OF THE CURRENT CPU RUNNING THIS TASK. USED FOR RECOVERY AND CPU AFFINITY.                                                                                                                                                   |
| 244     | (F4) | ADDRESS    | 4   | TCBFOE (0)  | - ADDRESS OF FIRST FIX OWNERSHIP ELEMENT (FOE) IN LIST FOR THIS TASK ICB339                                                                                                                                                      |
| 244     | (F4) | BITSTRING  | 1   |             | - RESERVED.                                                                                                                                                                                                                      |



| Offsets |       |            |     |              |                                                                                                                                                                                                                                                                                          |
|---------|-------|------------|-----|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim)   | Description                                                                                                                                                                                                                                                                              |
| 245     | (F5)  | ADDRESS    | 3   | TCBFOEA      | - ADDRESS OF FIRST FIX OWNERSHIP ELEMENT (FOE) IN LIST FOR THIS TASK ICB339                                                                                                                                                                                                              |
| 248     | (F8)  | ADDRESS    | 4   | TCBSWA       | - ADDRESS OF FIRST SCHEDULER WORK AREA (SWA) SPQE ON SWA SPQE CHAIN                                                                                                                                                                                                                      |
| 252     | (FC)  | ADDRESS    | 4   | TCBSTAWA     | - ESTAE ROUTINE WORK AREA POINTER                                                                                                                                                                                                                                                        |
| 256     | (100) | CHARACTER  | 4   | TCBTCBID     | - CONTAINS BLOCK ID - 'TCB '                                                                                                                                                                                                                                                             |
| 260     | (104) | ADDRESS    | 4   | TCBRM12      | - POINTER TO PARAMETER AREAS PASSED FROM RTM1 TO RTM2                                                                                                                                                                                                                                    |
| 264     | (108) | BITSTRING  | 4   | TCBESTAE (0) | - AREA TO CONTAIN RECOVERY DATA FOR RTM                                                                                                                                                                                                                                                  |
| 264     | (108) | CHARACTER  | 1   | TCBSCBKY     | - KEY IN WHICH SYNCH IS TO PASS CONTROL TO THE USER EXIT                                                                                                                                                                                                                                 |
| 265     | (109) | BITSTRING  | 1   | TCBESTRM     | - ESTAE TERM OPTIONS                                                                                                                                                                                                                                                                     |
|         |       | 1... ....  |     | TCBETERM     | "X'80" - ESTAE EXIT ENTERED WITH TERM OPTION                                                                                                                                                                                                                                             |
|         |       | .1... .... |     | TCBSTAFX     | "X'40" - SERIALIZED BY TCB ACTIVE                                                                                                                                                                                                                                                        |
| 266     | (10A) | SIGNED     | 1   | TCBERTYP     | - TYPE OF ERROR CAUSING ENTRY TO THE RTM. SET BY RTM1.                                                                                                                                                                                                                                   |
| 267     | (10B) | SIGNED     | 1   | TCBMODE      | - MASK INDICATING MODE OF SYSTEM AT TIME OF ERROR. SEE IHART1W/MODE FOR INDIVIDUAL BIT DEFINITIONS.                                                                                                                                                                                      |
| 268     | (10C) | ADDRESS    | 4   | TCBUKYSP     | - ADDRESS OF SPQE'S FOR SUBPOOLS 229 AND 230 (USER KEY STORAGE IN THE PRIVATE AREA)                                                                                                                                                                                                      |
| 272     | (110) | BITSTRING  | 2   | TCBPROPF (0) | - Flags propagated                                                                                                                                                                                                                                                                       |
| 272     | (110) | BITSTRING  | 1   | TCBPROP0     | - Byte 0 of TCBPROPF                                                                                                                                                                                                                                                                     |
|         |       | 1... ....  |     | TCBBITCB     | "X'80" - This task is "below" the initiator TCB                                                                                                                                                                                                                                          |
| 273     | (111) | BITSTRING  | 1   | TCBPROP1     | - Byte 1 of TCBPROPF                                                                                                                                                                                                                                                                     |
| 274     | (112) | BITSTRING  | 2   | TCBAFFN      | - CPU AFFINITY INDICATOR                                                                                                                                                                                                                                                                 |
| 276     | (114) | BITSTRING  | 1   | TCBFBYT1     | - FLAG BYTE. SERIALIZATION - TCBACTIV OR TASK NONDISPATCHABLE AND LOCAL LOCK                                                                                                                                                                                                             |
|         |       | 1... ....  |     | TCBEOTFM     | "X'80" - END OF TASK FLAG FOR FREEMAIN. SET TO 1 BY TASK TERMINATION AT START OF TERMINATION PROCESSING AND RESET TO 0 AT FINISH. INDICATES THAT A FREEMAIN ON A BLOCK OF LOCAL STORAGE THAT IS STILL FIXED BY RSM SHOULD RESULT IN A RETURN CODE OF 8 RATHER THAN ABNORMAL TERMINATION. |
|         |       | .1... .... |     | TCBRM1E      | "X'40" - RTM1 IS CURRENTLY PROCESSING EUT FRR'S FOR THIS TASK                                                                                                                                                                                                                            |
|         |       | ..1. ....  |     | TCBNDIOS     | "X'20" - TASK HAS BEEN SET NONDISPATCHABLE VIA STATUSND WHILE SVC 16 (PURGE) SCANS THE RB CHAIN PURGING APPENDAGE-SCHEDULED ASYNCHRONOUS EXIT ROUTINES RUNNING UNDER AN IRB/RQE OR NON-RESIDENT ERP'S RUNNING UNDER THE SIRB.                                                            |
|         |       | ...1 ....  |     | TCBPGNLY     | "X'10" - SET BY RTM2 TO INDICATE ONLY PURGE PHASE TO BE PERFORMED                                                                                                                                                                                                                        |
|         |       | .... 1...  |     | TCBRM2       | "X'08" - SET BY RTM2 TO INDICATE RTM2 HAS BEEN ENTERED FOR THIS TASK                                                                                                                                                                                                                     |
|         |       | .... .1..  |     | TCBEOT       | "X'04" - SET BY RTM2 TO INDICATE TO EXIT THAT END OF TASK PROCESSING IS COMPLETE                                                                                                                                                                                                         |
|         |       | .... ..1.  |     | TCBSATTN     | "X'02" - SYNCHRONIZATION OF ATTENTION INTERRUPT REQUIRED BY EXIT PROLOG                                                                                                                                                                                                                  |
|         |       | .... ...1  |     | TCBLLH       | "X'01" - Task was interrupted holding the local lock.                                                                                                                                                                                                                                    |
| 277     | (115) | BITSTRING  | 1   | TCBFBYT2     | - FLAG BYTE. SERIALIZATION - TCBACTIV OR TASK NONDISPATCHABLE AND LOCAL LOCK                                                                                                                                                                                                             |
|         |       | 1... ....  |     | TCBCNCB      | "X'80" - SET BY RTM2 IN THE JOB STEP TCB WHEN IT HAS BEEN ENTERED ON THE TCB FOR AN X22 ABEND                                                                                                                                                                                            |
|         |       | .1... .... |     | TCBFMW       | "X'40" - MOTHER WAITING FLAG. TURNED ON IN A SUBTASK IN RTM2 PROCESSING WHEN AN ANCESTOR TASK IS WAITING TO ABEND IT.                                                                                                                                                                    |
|         |       | ..1. ....  |     | TCBFDW       | "X'20" - DAUGHTER WAITING FLAG. TURNED ON IN A MOTHER TASK IN RTM2 PROCESSING WHEN A DAUGHTER IS WAITING TO ABEND IT.                                                                                                                                                                    |
|         |       | ...1 ....  |     | TCBFPRAP     | "X'10" - SET BY RTM2 TO PREVENT PERCOLATION TO THE TASK OF AN ASYNCHRONOUS ABEND                                                                                                                                                                                                         |

## TCB Map

| Offsets |       | Type/Value                                                    | Len | Name (Dim)                                             | Description                                                                                                                                                                                                    |
|---------|-------|---------------------------------------------------------------|-----|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex   |                                                               |     |                                                        |                                                                                                                                                                                                                |
|         |       | .... 1...                                                     |     | TCBRT1NR                                               | "X'08" - IF 1, ERROR PROPAGATED FROM RTM1 IS NON-RETRYABLE                                                                                                                                                     |
|         |       | .... .1..                                                     |     | TCBECBNV                                               | "X'04" - IF 1, ECB POINTED TO BY TCBECEB IS NOT TO BE VALIDITY CHECKED. IF 0, ECB POINTED TO BY TCBECEB IS TO BE VALIDITY CHECKED.                                                                             |
|         |       | .... ..1.                                                     |     | TCBSSPC                                                | "X'02" - STATUS STOP PENDING, TASK HOLDS A CML LOCK OR IS IN FUNCTION MUST COMPLETE MODE.                                                                                                                      |
|         |       | .... ...1                                                     |     | TCBRTM1C                                               | "X'01" - A TASK WITH EUT FRRS HAS BEEN CANCELLED. THIS FLAG PASSES THE CANCEL REQUEST FROM RTM1 TO RTM2.                                                                                                       |
| 278     | (116) | BITSTRING<br>1... ....<br>.1.. ....                           | 1   | TCBFBY3<br>TCBEXP<br>TCBNCTL                           | - FLAG BYTE<br>"X'80" - EXPANDED VERSION OF THE TCB<br>"X'40" - IF 1, INDICATES USER PROGRAM IS LOADED UNDER THIS TASK OR A LOWER TASK. OWNERSHIP: RACF                                                        |
| 279     | (117) | ..1. ....<br>BITSTRING<br>1... ....                           | 1   | TCBRTMDE<br>TCBFBY4<br>TCBPMC                          | "X'20" - DETACH HAS BEEN CALLED BY RTM<br>- FLAG BYTE. SERIALIZATION: TCBACTIV.<br>"X'80" - IF 1, INDICATES TASK IS IN PROCESS MUST COMPLETE MODE.                                                             |
| 280     | (118) | .1.. ....<br>ADDRESS                                          | 4   | TCBNOJLB<br>TCBRPT                                     | "X'40" - If 1, indicates that TCBJLB is not to be used<br>- ADDRESS OF RADIX PARTITION TREE FOR LOCAL STORAGE MANAGEMENT                                                                                       |
| 284     | (11C) | ADDRESS                                                       | 4   | TCBVAT                                                 | - ADDRESS OF THE VAT (VSAM). THERE IS ONE VAT PER JOB STEP TCB.                                                                                                                                                |
| 288     | (120) | ADDRESS                                                       | 4   | TCBSWASA                                               | - ADDRESS OF SAVE AREA USED BY SWA MANAGER                                                                                                                                                                     |
| 292     | (124) | ADDRESS                                                       | 4   | TCBSVCA2                                               | - ADDRESS OF SVC SCREENING TABLE                                                                                                                                                                               |
| 296     | (128) | ADDRESS                                                       | 4   | TCBERD                                                 | EXTENDED REGION DESCRIPTOR. SERIALIZATION - THE LOCAL LOCK. OWNERSHIP - VSM.                                                                                                                                   |
| 300     | (12C) | ADDRESS                                                       | 4   | TCBEAE                                                 | EXTENDED ALLOCATED ELEMENT QUEUE ANCHOR. SERIALIZATION - THE LOCAL LOCK. OWNERSHIP - VSM.                                                                                                                      |
| 304     | (130) | ADDRESS                                                       | 4   | TCBARC                                                 | REASON CODE FOR ABEND OWNERSHIP - RTM                                                                                                                                                                          |
| 308     | (134) | SIGNED                                                        | 4   | TCBGRES                                                | - TASK GLOBAL RESOURCE COUNT - NUMBER OF GLOBAL RESOURCES OWNED BY THIS TASK                                                                                                                                   |
| 312     | (138) | ADDRESS                                                       | 4   | TCBSTCB                                                | ADDRESS OF STCB                                                                                                                                                                                                |
| 316     | (13C) | CHARACTER                                                     | 8   | TCBTTIME                                               | - TCB'S ACCUMULATED CPU TIME                                                                                                                                                                                   |
| 324     | (144) | ADDRESS                                                       | 4   | TCBCELAP                                               | - COMMON EXECUTION LIBRARY ANCHOR POINTER                                                                                                                                                                      |
| 328     | (148) | BITSTRING                                                     | 2   | TCBR148                                                | - RESERVED                                                                                                                                                                                                     |
| 330     | (14A) | BITSTRING<br>1... ....                                        | 1   | TCBRBYT1<br>TCBPVICT                                   | - RTM Flag byte Ownership: RTM Serialization: Local lock.<br>"X'80" - If 1, indicates that the associated task has received an ABEND13E as a result of Parallel Detach processing. Used by both RTM1 and RTM2. |
|         |       | .1.. ....                                                     |     | TCBPKING                                               | "X'40" - If 1, indicates that the associated Task has been marked as responsible for the removal of its subtasks (in RTM processing)                                                                           |
|         |       | ..1. ....                                                     |     | TCBPCAND                                               | "X'20" - If 1, indicates that this Task has requested Parallel Detach protection and should be on the queue pointed to by ASSBPTAR                                                                             |
|         |       | ...1 ....                                                     |     | TCBPTOP                                                | "X'10" - If 1, indicates that this Task is at the top of a Task structure that was Parallel Detached                                                                                                           |
| 331     | (14B) | BITSTRING<br>.... ..1.<br>.... ..1.<br>.... ..11<br>.... ..11 | 1   | TCBLEVEL<br>TCBVS02A<br>TCBVS02B<br>TCBVS03<br>TCBVERS | - LEVEL NUMBER OF TCB<br>"X'02" - JBB2110 (NOT IN BASE)<br>"X'02" - JBB2125<br>"X'03" - JBB2133<br>"X'03" - LEVEL OF THIS MAPPING                                                                              |
| 332     | (14C) | ADDRESS                                                       | 4   | TCBBDT                                                 | - ADDRESS OF BDT'S GSD LINKAGE CONTROL BLOCK                                                                                                                                                                   |
| 336     | (150) | SIGNED                                                        | 4   | TCBNDXP                                                | - COUNT OF NUMBER OF CONSECUTIVE DISPATCHES REQUIRED ON A CP BEFORE THE TASK SHOULD BE REDISPATCHED ON AN AXP. OWNER: SUPERVISOR CONTROL SERIALIZATION: TCBACTIV BIT OF FIELD TCBSXCT1                         |
| 340     | (154) | ADDRESS                                                       | 4   | TCBSENV                                                | - ADDRESS OF ACEE FOR THE TASK. THE ACEE DESCRIBES THE RACF AUTHORIZATION FOR THE TASK. OWNER: RACF SERIALIZATION: NONE, ONLY UPDATED BY TASK ITSELF                                                           |

| Offsets |       |            |     |            |                                         |
|---------|-------|------------|-----|------------|-----------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim) | Description                             |
| 344     | (158) | DBL WORD   | 8   | (0)        |                                         |
| 344     | (158) | X'158'     | 0   | TCBMNLEN   | "*-TCB" - LENGTH OF MAIN SECTION OF TCB |

| Offsets |      |            |     |            |                                                                                                                                                                                            |
|---------|------|------------|-----|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                |
| 0       | (0)  | STRUCTURE  | 0   | TCBXTNT2   | , - START OF EXTENSION                                                                                                                                                                     |
| 0       | (0)  | ADDRESS    | 4   | TCBGTF (0) | - ADDRESS OF GENERALIZED TRACE FACILITY (GTF)<br>TEMPORARY TRACE BUFFER ICB312                                                                                                             |
| 0       | (0)  | BITSTRING  | 1   | TCBTFLG    | - GTF FLAG BYTE ICB312                                                                                                                                                                     |
|         |      | 1... ....  |     | TCBASYNC   | "X'80" - GTF ASYNCHRONOUS GATHER ROUTINE IS IN CONTROL ICB312                                                                                                                              |
|         |      | .1... .... |     | TCBERRTN   | "X'40" - GTF ASYNCHRONOUS GATHER ERROR ROUTINE IS IN CONTROL ICB312                                                                                                                        |
|         |      | ..1. ....  |     | TCBDSPIT   | "X'20" - MACHINE CHECK INTERRUPTION HANDLER SHOULD UNCONDITIONALLY BRANCH TO THE DISPATCHER ICB312                                                                                         |
| 1       | (1)  | ADDRESS    | 3   | TCBGTF A   | - ADDRESS OF GTF TEMPORARY TRACE BUFFER ICB312                                                                                                                                             |
| 4       | (4)  | BITSTRING  | 1   |            | - RESERVED.                                                                                                                                                                                |
| 5       | (5)  | BITSTRING  | 3   | TCBRCMP    | - MOST RECENT ABEND COMPLETION CODE (INCLUDING VALID RECURSIONS IN STAE) ICB411                                                                                                            |
| 8       | (8)  | ADDRESS    | 4   | TCBEVENT   | - ADDRESS OF EVENT TABLES QUEUE                                                                                                                                                            |
| 12      | (C)  | SIGNED     | 4   | TCBRTMCT   | - COUNT OF TOKENS USED FOR ESTAE. SERIALIZATION - CS. OWNERSHIP - RTM.                                                                                                                     |
| 16      | (10) | ADDRESS    | 4   | TCBTQE     | - ADDRESS OF A REUSABLE TASK-RELATED TQE                                                                                                                                                   |
| 20      | (14) | ADDRESS    | 4   | TCBCAUF    | - ADDRESS OF SUBSYSTEM FACILITY CONTROL BLOCK                                                                                                                                              |
| 24      | (18) | ADDRESS    | 4   | TCBPERCP   | - POINTER TO A QUEUE OF SPIS. AN SPI REPRESENTS THE PERCOLATION OF AN SRB'S FRR TO THE RELATED TASK. SERIALIZATION - TCBACTIV OR TASK NONDISPATCHABLE AND LOCAL LOCK. OWNERSHIP - RTM.     |
|         |      | 1... ....  |     | TCBRCVRY   | "X'80" - TASK IS IN RECOVERY. SERIALIZATION - TCBACTIV. OWNERSHIP - RTM.                                                                                                                   |
| 28      | (1C) | SIGNED     | 4   | TCBPERCT   | - COUNT OF SRB MODE FRRS WAITING TO PERCOLATE TO THIS TASK, BUT NOT REPRESENTED IN SPI QUEUE (TCBPERCP). SERIALIZATION - TCBACTIV OR TASK NONDISPATCHABLE AND LOCAL LOCK. OWNERSHIP - RTM. |
| 32      | (20) | DBL WORD   | 8   | (0)        | - FORCE LENGTH EQUATE TO DOUBLE WORD ICB362                                                                                                                                                |
| 32      | (20) | X'20'      | 0   | TCBX2LEN   | "*-TCBXTNT2" LENGTH OF COMMON EXTENSION                                                                                                                                                    |
| 32      | (20) | X'198'     | 0   | TCBLEN     | "TCBPXLEN+TCBMNLEN+TCBX2LEN" - TCB LENGTH INCLUDING PREFIX END OF TCB                                                                                                                      |

## TCB Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| PNONDISP | AD         | 40        | TCBAPG   | CA         | 2         |
| TCB      | 0          | 20        | TCBAQE   | 9C         | BC        |
| TCBABCUR | EC         |           | TCBARC   | 130        |           |
| TCBABD   | AE         | 80        | TCBAREQ  | AF         | 4         |
| TCBABE   | AE         | 1         | TCBASYNC | 0          | 80        |
| TCBABF   | 14         |           | TCBATT   | 94         | 20        |
| TCBABTIN | AD         | 1         | TCBACK   | DC         |           |
| TCBABTRM | 1F         | 20        | TCBBDT   | 14C        |           |
| TCBABWF  | 21         | 40        | TCBBITCB | 110        | 80        |
| TCBACTIV | F0         | 80        | TCBBITS  | C8         |           |
| TCBADMP  | CB         | 2         | TCBCASID | 10         | 8         |
| TCBADUMP | B4         | 7         | TCBCAUF  | 14         |           |
| TCBAE    | 9C         |           | TCBCCPVI | F2         |           |
| TCBAECB  | D4         |           | TCBCDBL  | 10         | 8         |
| TCBAFFN  | 112        |           | TCBCELAP | 144        |           |
| TCBANDSP | 21         | 10        | TCBCIND  | 10         | 2         |

## TCB Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| TCBCLOSD | B4         | 2         | TCBFBY3  | 116        |           |
| TCBCLOSE | B4         | 3         | TCBFBY4  | 117        |           |
| TCBCLOSF | B4         | 4         | TCBFC    | 21         | 80        |
| TCBCMLF  | F1         | 80        | TCBFCD1  | 21         | 2         |
| TCBCMP   | 10         |           | TCBFDSOP | 1E         | 4         |
| TCBCMPC  | 11         |           | TCBFDW   | 115        | 20        |
| TCBCMPF  | 10         |           | TCBFE    | 1D         | 40        |
| TCBCMSG  | 10         | 1         | TCBFERA  | 1D         | 20        |
| TCBCNCB  | 115        | 80        | TCBFETXR | 1E         | 2         |
| TCBCOMM  | EE         | FD        | TCBFI    | -20        |           |
| TCBCONVR | B4         | 32        | TCBFJMC  | 1E         | 8         |
| TCBCPP   | 10         | 20        | TCBFJMCT | ED         |           |
| TCBCPU   | CA         | 20        | TCBFLAG  | 1C         | F0        |
| TCBCPUBN | 94         | 1         | TCBFLGS  | 1D         |           |
| TCBCREQ  | 10         | 80        | TCBFLGS1 | 1D         |           |
| TCBCSTEP | 10         | 40        | TCBFLGS2 | 1E         |           |
| TCBCWTO  | 10         | 4         | TCBFLGS3 | 1F         |           |
| TCBDAMSG | B4         | B         | TCBFLGS4 | 20         |           |
| TCBDAR   | CC         |           | TCBFLGS5 | 21         |           |
| TCBDARC  | CC         | 10        | TCBFLGS6 | CA         |           |
| TCBDARD  | CC         | 20        | TCBFLGS7 | CB         |           |
| TCBDARET | B4         | 33        | TCBFLGS8 | EF         |           |
| TCBDARMC | CC         | 10        | TCBFMW   | 115        | 40        |
| TCBDARMS | CC         | 2         | TCBFOE   | F4         |           |
| TCBDARO  | CC         | 8         | TCBFOEA  | F5         |           |
| TCBDARP  | CC         | 80        | TCBFOINP | 1E         | 80        |
| TCBDARPN | AD         | 40        | TCBFPRAP | 115        | 10        |
| TCBDARS  | CC         | 40        | TCBFRS   | -20        |           |
| TCBDARTN | AD         | 80        | TCBFRS0  | -20        |           |
| TCBDARWT | CC         | 4         | TCBFRS2  | -18        |           |
| TCBDDRND | AD         | 8         | TCBFRS4  | -10        |           |
| TCBDEB   | 8          |           | TCBFRS6  | -8         |           |
| TCBDMPO  | 10         | 20        | TCBFS    | 1D         | 2         |
| TCBDSP   | 23         |           | TCBFSA   | 70         |           |
| TCBDSFIT | 0          | 20        | TCBFSAB  | 71         |           |
| TCBDSS   | AE         | 2         | TCBFSSM  | 1F         | 80        |
| TCBDSSID | EE         | F9        | TCBFSSMC | 1E         | 10        |
| TCBDWSTA | 1F         | 1         | TCBFSTI  | 1E         | 40        |
| TCBDYDSP | 94         | 2         | TCBFT    | 1D         | 4         |
| TCBDYING | EF         | 80        | TCBFTS   | 1E         | 1         |
| TCBDYNAM | B4         | A         | TCBFX    | 1D         | 1         |
| TCBEAE   | 12C        |           | TCBFXSET | 1F         | 10        |
| TCBECB   | 90         |           | TCBGPECB | CB         | 80        |
| TCBECBNV | 115        | 4         | TCBGREC  | B4         | 5         |
| TCBENQRM | 1F         | 2         | TCBGRES  | 134        |           |
| TCBEOT   | 114        | 4         | TCBGRPH  | 14         | 20        |
| TCBEOTFM | 114        | 80        | TCBGRS   | 30         |           |
| TCBERD   | 128        |           | TCBGRS0  | 30         |           |
| TCBERRTN | 0          | 40        | TCBGRS1  | 34         |           |
| TCBERTYP | 10A        |           | TCBGRS10 | 58         |           |
| TCBESTAE | 108        |           | TCBGRS11 | 5C         |           |
| TCBESTRM | 109        |           | TCBGRS12 | 60         |           |
| TCBETERM | 109        | 80        | TCBGRS13 | 64         |           |
| TCBEVENT | 8          |           | TCBGRS14 | 68         |           |
| TCBEXCPD | C0         |           | TCBGRS15 | 6C         |           |
| TCBEXP   | 116        | 80        | TCBGRS2  | 38         |           |
| TCBEXSVC | CC         | 1         | TCBGRS3  | 3C         |           |
| TCBEXT1  | C4         |           | TCBGRS4  | 40         |           |
| TCBEXT1A | C5         |           | TCBGRS5  | 44         |           |
| TCBEXT2  | D0         |           | TCBGRS6  | 48         |           |
| TCBEXT2A | D1         |           | TCBGRS7  | 4C         |           |
| TCBFA    | 1D         | 80        | TCBGRS8  | 50         |           |
| TCBFABOP | 1E         | 20        | TCBGRS9  | 54         |           |
| TCBFBY1  | 114        |           | TCBGTF   | 0          |           |
| TCBFBY2  | 115        |           | TCBGTF   | 1          |           |

| Name      | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|-----------|------------|-----------|----------|------------|-----------|
| TCBGTOFM  | CB         | 1         | TCBNTC   | 80         |           |
| TCBHALT   | A0         | 8         | TCBNTJS  | CA         | 1         |
| TCBHNDSP  | 20         | 10        | TCBOLTEP | 14         | 2         |
| TCBINDRC  | B4         | E         | TCBONDSP | 20         | 1         |
| TCBIOBRC  | BC         |           | TCBOPEN  | B4         | 1         |
| TCBIORMS  | EE         | FC        | TCBOTC   | 84         |           |
| TCBIQE    | 8C         |           | TCBOWAIT | AE         | 4         |
| TCBIWAIT  | AE         | 8         | TCBPAGE  | 21         | 20        |
| TCBJES    | EE         | FA        | TCBPAGID | EE         | FF        |
| TCBJLB    | 28         |           | TCBPCAND | 14A        | 20        |
| TCBJPQ    | 2C         |           | TCBPDUMP | 1D         | 8         |
| TCBJPQB   | 2D         |           | TCBPERCP | 18         |           |
| TCBJPQF   | 2C         | 80        | TCBPERCT | 1C         |           |
| TCBJSCB   | B4         |           | TCBPGNLY | 114        | 10        |
| TCBJSCBB  | B5         |           | TCBPIE   | 4          |           |
| TCBJSTCA  | 7D         |           | TCBPIEND | AD         | 2         |
| TCBJSTCB  | 7C         |           | TCBPIE17 | CA         | 40        |
| TCBJTCBA  | EF         | 20        | TCBPKF   | 1C         |           |
| TCBKEY9   | 1F         | 4         | TCBPKING | 14A        | 40        |
| TCBLEN    | 20         | 198       | TCBPMC   | 117        | 80        |
| TCBLEVEL  | 14B        |           | TCBPNDSP | 21         | 1         |
| TCBLJSND  | AF         | 80        | TCBPPSUP | A0         | 10        |
| TCBLLH    | 114        | 1         | TCBPQE   | 98         | B8        |
| TCBLLNEW  | F1         | 40        | TCBPROPF | 110        |           |
| TCBLLREQ  | F0         | 20        | TCBPROP0 | 110        |           |
| TCBLLS    | 24         |           | TCBPROP1 | 111        |           |
| TCBLMP    | 22         |           | TCBPTAXE | B4         | 8         |
| TCBLOGID  | EE         | F8        | TCBPTOP  | 14A        | 10        |
| TCBLTC    | 88         |           | TCBPURGE | 2C         |           |
| TCBMASTR  | EE         | FB        | TCBPVICT | 14A        | 80        |
| TCBMCCNS  | B4         | 40        | TCBPXLEN | -8         | 20        |
| TCBMDIDS  | B0         |           | TCBQTIP  | B4         | C         |
| TCBMESG   | B4         | 9         | TCBQUIES | A0         | 40        |
| TCBMIGR   | CA         | 4         | TCBRBP   | 0          |           |
| TCBMNLEN  | 158        | 158       | TCBRBWF  | 20         | 4         |
| TCBMODE   | 10B        |           | TCBRBYT1 | 14A        |           |
| TCBMOD91  | 14         | 80        | TCBRCMP  | 5          |           |
| TCBMSS    | 18         |           | TCBRCVRY | 18         | 80        |
| TCBMSSB   | 19         |           | TCBRD    | 98         |           |
| TCBNCTL   | 116        | 40        | TCBREC   | B4         | 80        |
| TCBNDAXP  | 150        |           | TCBRECDE | B4         |           |
| TCBNDINT  | AF         | 1         | TCBRPT   | 118        |           |
| TCBNDIOS  | 114        | 20        | TCBRQENA | 20         | 20        |
| TCBNDNY1  | AF         | 40        | TCBRSPND | AD         | 10        |
| TCBNDSMF  | AF         | 2         | TCBRSTND | AD         | 20        |
| TCBNDSP   | AC         |           | TCBRSTSK | CB         | 4         |
| TCBNDSP0  | AC         |           | TCBRSV37 | CD         |           |
| TCBNDSP1  | AD         |           | TCBRTMCT | C          |           |
| TCBNDSP2  | AE         |           | TCBRTMDE | 116        | 20        |
| TCBNDSP3  | AF         |           | TCBRTM1C | 115        | 1         |
| TCBNDSP4  | C8         |           | TCBRTM1E | 114        | 40        |
| TCBNDSP5  | C9         |           | TCBRTM12 | 104        |           |
| TCBND SVC | AE         | 20        | TCBRTM2  | 114        | 8         |
| TCBNDTS   | AE         | 10        | TCBRTWA  | E0         |           |
| TCBNDUMP  | 20         | 80        | TCBRT1NR | 115        | 8         |
| TCBNEW RB | B4         | 35        | TCBRT1S  | 1F         | 40        |
| TCBNOCC   | 10         | 10        | TCBRV    | CA         | 80        |
| TCBNOCHK  | 14         | 40        | TCBRV316 | 10         | 4         |
| TCBNOIRB  | EF         | 40        | TCBR148  | 148        |           |
| TCBNOJLB  | 117        | 40        | TCBSATTN | 114        | 2         |
| TCBNONPR  | 1D         | 10        | TCBSAVCD | B4         | F         |
| TCBNOSTA  | B4         | 30        | TCBSCBKY | 108        |           |
| TCBNSSP   | E4         |           | TCBSCNDY | AC         |           |
| TCBNSSQA  | E4         | 80        | TCBSENV  | 154        |           |
| TCBNSTAE  | A0         |           | TCBSER   | 20         | 40        |

## TCB Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| TCBSLPER | AF         | 10        | TCBVS02A | 14B        | 2         |
| TCBSMCP  | 94         | 8         | TCBVS02B | 14B        | 2         |
| TCBSMFGF | A4         | 80        | TCBVS03  | 14B        | 3         |
| TCBSPVLK | CA         | 10        | TCBVTAM1 | B4         | 21        |
| TCBSRBND | AF         | 20        | TCBVTAM2 | B4         | 22        |
| TCBSSAT  | B8         |           | TCBVTAM3 | B4         | 23        |
| TCBSSPC  | 115        | 2         | TCBVTAM4 | B4         | 24        |
| TCBSTAB  | A0         |           | TCBWTPSE | B4         | 20        |
| TCBSTABB | A1         |           | TCBXLAS  | E8         |           |
| TCBSTABE | A0         | 80        | TCBXSAB  | D8         |           |
| TCBSTACK | CB         | 10        | TCBXSCT  | F0         |           |
| TCBSTAFX | 109        | 40        | TCBXSCT1 | F0         |           |
| TCBSTAWA | FC         |           | TCBXSCT2 | F1         |           |
| TCBSTCB  | 138        |           | TCBXTNT2 | 0          |           |
| TCBSTCC  | 10         | 10        | TCBX2LEN | 20         | 20        |
| TCBSTCUR | A0         | 1         | TCBZERO  | 1C         | F         |
| TCBSTMCT | CF         |           | TCB33E   | A0         | 20        |
| TCBSTP   | 21         | 4         | TNONDISP | AD         | 80        |
| TCBSTPCT | 95         |           |          |            |           |
| TCBSTPP  | AE         | 40        |          |            |           |
| TCBSTPPR | 94         | 40        |          |            |           |
| TCBSTRET | B4         | 31        |          |            |           |
| TCBSVCA2 | 124        |           |          |            |           |
| TCBSVCS  | CB         | 8         |          |            |           |
| TCBSVCSP | CB         | 20        |          |            |           |
| TCBSWA   | F8         |           |          |            |           |
| TCBSWASA | 120        |           |          |            |           |
| TCBSYERR | EE         | FE        |          |            |           |
| TCBSYNCH | A0         | 4         |          |            |           |
| TCBSYS   | 21         | 8         |          |            |           |
| TCBSYSCT | CE         |           |          |            |           |
| TCBS3A   | F0         | 40        |          |            |           |
| TCBS3MR  | AF         | 8         |          |            |           |
| TCBTCAMP | B4         | D         |          |            |           |
| TCBTCB   | 74         |           |          |            |           |
| TCBTCBID | 100        |           |          |            |           |
| TCBTCP   | 14         | 4         |          |            |           |
| TCBTCPP  | 14         | 8         |          |            |           |
| TCBTCT   | A4         |           |          |            |           |
| TCBTCTB  | A5         |           |          |            |           |
| TCBTCTGF | A4         |           |          |            |           |
| TCBTDORM | F0         | 8         |          |            |           |
| TCBTFLG  | 0          |           |          |            |           |
| TCBTID   | EE         |           |          |            |           |
| TCBTIO   | C          |           |          |            |           |
| TCBTIOTG | 94         | 10        |          |            |           |
| TCBTME   | 78         |           |          |            |           |
| TCBTSP   | AD         | 4         |          |            |           |
| TCBTQE   | 10         |           |          |            |           |
| TCBTQET  | 78         | 80        |          |            |           |
| TCBTRN   | 14         |           |          |            |           |
| TCBTRNB  | 15         |           |          |            |           |
| TCBTSDP  | 97         |           |          |            |           |
| TCBTSFLG | 94         |           |          |            |           |
| TCBTSLP  | 96         |           |          |            |           |
| TCBTSTSK | 94         | 80        |          |            |           |
| TCBTTIME | 13C        |           |          |            |           |
| TCBTYP1R | B4         | 34        |          |            |           |
| TCBTYP1W | B4         | 10        |          |            |           |
| TCBUKYSP | 10C        |           |          |            |           |
| TCBUSER  | A8         |           |          |            |           |
| TCBUXNDF | 21         | 40        |          |            |           |
| TCBUXNDV | 20         | 8         |          |            |           |
| TCBVAT   | 11C        |           |          |            |           |
| TCBVERS  | 14B        | 3         |          |            |           |

## TCCW Heading Information

**Common Name:** Translation Control Block  
**Macro ID:** IECDTCCW  
**DSECT Name:** TCCW  
**Owning Component:** Execute Channel Program Processor (SC1C6)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: 226  
 Key: 0  
 Residency: Below 16Mb  
**Size:** 160 or 248 bytes (if bit TCCWLBLK is on, then the block is 248 bytes)  
**Created by:** Callers of the CCW translation module (IECVTCCW)  
**Pointed to by:** RQETCCW field of the RQE data area  
**Serialization:** LOCAL lock  
**Function:** The TCCW block is the translation control block which contains all the information required to translate virtual CCWS to real CCWS, re-translate addresses or unfix data areas. This block is provided by the caller of the CCW translator. The caller can provide either an 160 byte or 248 byte block (248 byte block preferred).

## TCCW Map

| Offsets                       |      |            |     |            |                                                              |
|-------------------------------|------|------------|-----|------------|--------------------------------------------------------------|
| Dec                           | Hex  | Type/Value | Len | Name (Dim) | Description                                                  |
| 0                             | (0)  | STRUCTURE  | 0   | TCCW       |                                                              |
| 0                             | (0)  | ADDRESS    | 4   | TCCWTCB    | TCB address associated with request                          |
| 4                             | (4)  | BITSTRING  | 1   | TCCWOPTN   | CCW Translation option byte and TCCW error return codes..... |
| Comment                       |      |            |     |            |                                                              |
| TCCW translation options----- |      |            |     |            |                                                              |
| End of Comment                |      |            |     |            |                                                              |
|                               | .... | ....       |     | TCCWXLAT   | "X'00" .Translate CCWs                                       |
|                               | .... | .1..       |     | TCCWCSWX   | "X'04" .Translate CSW or passes address                      |
|                               | .... | 1..        |     | TCCWUNFX   | "X'08" .Unfix data area - Set up free list                   |
|                               | .... | 11..       |     | TCCWGTMN   | "X'0C" .TCCW block request to caller and return to continue  |
|                               | ...1 | ....       |     | TCCWSATR   | "X'10" .Single address translation                           |
| Comment                       |      |            |     |            |                                                              |
| TCCW error return codes-----  |      |            |     |            |                                                              |
| End of Comment                |      |            |     |            |                                                              |
|                               | 1..  | ....       |     | TCCWPGER   | "X'80" .Page fix error                                       |
|                               | 1..1 | ....       |     | TCCWTRER   | "X'90" .translation error                                    |
|                               | 1.1. | ....       |     | TCCWIDAE   | "X'A0" .IDA bit error in virtual Chan Pgm                    |
|                               | 1.11 | ....       |     | TCCWPRIV   | "X'B0" .Privileged CCW                                       |
|                               | 11.. | ....       |     | TCCWERRC   | "X'C0" .Reserved                                             |
|                               | 11.1 | ....       |     | TCCWVMER   | "X'D0" .Valmap error                                         |
|                               | 111. | ....       |     | TCCWVLER   | "X'E0" .Val ck error in virtual chan pgm                     |
|                               | 1111 | ....       |     | TCCWERRF   | "X'F0" .Reserved                                             |

## TCCW Map

| Offsets |      |            |     |              |                                             |
|---------|------|------------|-----|--------------|---------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                 |
| 5       | (5)  | ADDRESS    | 3   | TCCWUCB      | Associated UCB address                      |
| 8       | (8)  | ADDRESS    | 4   | TCCWBEB      | 1st BEB block address                       |
| 12      | (C)  | ADDRESS    | 4   | TCCWFIX      | 1st Fix list block address                  |
| 16      | (10) | ADDRESS    | 4   | TCCWFVC      | 1st virtual CCW address                     |
| 20      | (14) | ADDRESS    | 4   | TCCWFRC      | 1st real CCW address                        |
| 24      | (18) | ADDRESS    | 4   | TCCWPLKR     | Next available Fix entry address            |
| 28      | (1C) | ADDRESS    | 4   | TCCWINDA     | 1st IDAL block address                      |
| 32      | (20) | ADDRESS    | 4   | TCCWTICL     | Unresolved TIC list address                 |
| 36      | (24) | ADDRESS    | 4   | TCCWINDR     | Next available IDAW entry address           |
| 40      | (28) | ADDRESS    | 4   | TCCWCCWR     | Next available real CCW address             |
| 44      | (2C) | BITSTRING  | 1   | TCCWMOBDB    | Translator flag byte-----                   |
|         |      | 1... ....  |     | TCCWFCHN     | "X'80" - Free block chain constructed       |
|         |      | .1.. ....  |     | TCCWVLCK     | "X'40" - Virtual CP validity check          |
|         |      | ..1. ....  |     | TCCWLBLK     | "X'20" - 248 byte large block provided      |
|         |      | ...1 ....  |     | TCCWNVAL     | "X'10" - Skip privileged operation checking |
|         |      | .... 1...  |     | TCCWIDAX     | "X'08" - 4K 8-byte IDAWs                    |
|         |      | .... .1..  |     | TCCWPC10     | "X'04" - An invalid IDAL entry required     |
|         |      | .... ..1.  |     | TCCWPGCK     | "X'02" - Page fix/unfixing active           |
|         |      | .... ...1  |     | TCCWVIDA     | "X'01" - Virtual IDAW with bit 0 on         |
| 45      | (2D) | BITSTRING  | 1   | TCCWCCWL     | Number of CCW entries left in BEB           |
| 46      | (2E) | BITSTRING  | 1   | TCCWINDL     | Number of IDAW entries left in IDAL         |
| 47      | (2F) | BITSTRING  | 1   | TCCWEFOP     | Numeric portion of current command          |
| 48      | (30) | ADDRESS    | 4   | TCCWCCWA     | Next virtual CCW address                    |
| 52      | (34) | ADDRESS    | 4   | TCCWTICA     | TIC-ed to address                           |
| 56      | (38) | ADDRESS    | 4   | TCCWLOCA     | Low compare address                         |
| 60      | (3C) | ADDRESS    | 4   | TCCWHICA     | High compare address                        |
| 64      | (40) | ADDRESS    | 4   | TCCWCBEB     | Current BEB pointer                         |
| 68      | (44) | ADDRESS    | 4   | TCCWOPTR (0) | Previous CCW address and cmd code           |
| 68      | (44) | BITSTRING  | 1   | TCCWOPBT     | Previous CCW operation command code         |
| 69      | (45) | ADDRESS    | 3   | TCCWPCCW     | Previous CCW address                        |
| 72      | (48) | BITSTRING  | 32  | TCCWSAVE (0) | Additional block request save area          |
| 72      | (48) | ADDRESS    | 4   | TCCWSAVD     | - Save area for register 13                 |
| 76      | (4C) | ADDRESS    | 4   | TCCWSAV4     | - Save area for register 4                  |
| 80      | (50) | ADDRESS    | 4   | TCCWSAV5     | - Save area for register 5                  |
| 84      | (54) | ADDRESS    | 4   | TCCWSAV6     | - Save area for register 6                  |
| 88      | (58) | ADDRESS    | 4   | TCCWSAV7     | - Save area for register 7                  |
| 92      | (5C) | ADDRESS    | 4   | TCCWSAV8     | - Save area for register 8                  |
| 96      | (60) | ADDRESS    | 4   | TCCWSAV9     | - Save area for register 9                  |
| 100     | (64) | ADDRESS    | 4   | TCCWSAVA     | - Save area for register 10                 |
| 104     | (68) | BITSTRING  | 56  | TCCWRGSV (0) | Translator register save area               |
| 104     | (68) | ADDRESS    | 4   | TCCWREG1     | - Save area for register 1                  |
| 108     | (6C) | ADDRESS    | 4   | TCCWREG2     | - Save area for register 2                  |
| 112     | (70) | ADDRESS    | 4   | TCCWREG3     | - Save area for register 3                  |
| 116     | (74) | ADDRESS    | 4   | TCCWREG4     | - Save area for register 4                  |
| 120     | (78) | ADDRESS    | 4   | TCCWREG5     | - Save area for register 5                  |
| 124     | (7C) | ADDRESS    | 4   | TCCWREG6     | - Save area for register 6                  |
| 128     | (80) | ADDRESS    | 4   | TCCWREG7     | - Save area for register 7                  |
| 132     | (84) | ADDRESS    | 4   | TCCWREG8     | - Save area for register 8                  |
| 136     | (88) | ADDRESS    | 4   | TCCWREG9     | - Save area for register 9                  |
| 140     | (8C) | ADDRESS    | 4   | TCCWREGA     | - Save area for register 10                 |
| 144     | (90) | ADDRESS    | 4   | TCCWREGB     | - Save area for register 11                 |
| 148     | (94) | ADDRESS    | 4   | TCCWREGC     | - Save area for register 12                 |
| 152     | (98) | ADDRESS    | 4   | TCCWREGD     | - Save area for register 13                 |
| 156     | (9C) | ADDRESS    | 4   | TCCWREG E    | - Save area for register 14                 |
| 156     | (9C) | X'A0'      | 0   | TCCWBL       | "*-TCCW" TCCW block length                  |
| 160     | (A0) | ADDRESS    | 4   | TCCWREGX (4) | - Remaining save area (used by IECVPBLK     |
| 176     | (B0) | ADDRESS    | 4   | TCCWLSTA     | - Lowest beginning address                  |
| 180     | (B4) | ADDRESS    | 4   | TCCWHSTA     | - Highest ending address                    |



| Offsets                                                                                                                                                                            |      |            |     |            |                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-----|------------|---------------------------------------------------------------|
| Dec                                                                                                                                                                                | Hex  | Type/Value | Len | Name (Dim) | Description                                                   |
| Comment                                                                                                                                                                            |      |            |     |            |                                                               |
| The following fields are used to manage the blocks that are obtained from the requestor's private area. These blocks are used as BEBs.                                             |      |            |     |            |                                                               |
| End of Comment                                                                                                                                                                     |      |            |     |            |                                                               |
| 184                                                                                                                                                                                | (B8) | ADDRESS    | 4   | TCCWPAGF   | - Address of first page                                       |
| 188                                                                                                                                                                                | (BC) | ADDRESS    | 4   | TCCWPAGL   | - Address of last page                                        |
| 192                                                                                                                                                                                | (C0) | BITSTRING  | 1   | TCCWBLKN   | - Index of next block in last private block                   |
| 193                                                                                                                                                                                | (C1) | BITSTRING  | 1   | TCCWRESV   | - Reserved                                                    |
| 194                                                                                                                                                                                | (C2) | BITSTRING  | 2   | TCCWLBCT   | - Count of IECVEXSM managed large blocks used by this request |
| Comment                                                                                                                                                                            |      |            |     |            |                                                               |
| The RQEX is placed immediately after the TCCW in a large block. For this reason, the TCCW can never be expanded such that the RQEX and TCCW no longer fit in a single large block. |      |            |     |            |                                                               |
| End of Comment                                                                                                                                                                     |      |            |     |            |                                                               |

### TCCW Cross Reference

| Name     | Hex Offset | Hex Value | Name      | Hex Offset | Hex Value |
|----------|------------|-----------|-----------|------------|-----------|
| TCCW     | 0          |           | TCCWPGCK  | 2C         | 2         |
| TCCWBEB  | 8          |           | TCCWPGER  | 4          | 80        |
| TCCWBL   | 9C         | A0        | TCCWPLKR  | 18         |           |
| TCCWBLKN | C0         |           | TCCWPRIV  | 4          | B0        |
| TCCWCBE  | 40         |           | TCCWREGA  | 8C         |           |
| TCCWCCWA | 30         |           | TCCWREGB  | 90         |           |
| TCCWCCWL | 2D         |           | TCCWREGC  | 94         |           |
| TCCWCCWR | 28         |           | TCCWREGD  | 98         |           |
| TCCWCSWX | 4          | 4         | TCCWREG E | 9C         |           |
| TCCWEFOP | 2F         |           | TCCWREGX  | A0         |           |
| TCCWERRC | 4          | C0        | TCCWREG1  | 68         |           |
| TCCWERRF | 4          | F0        | TCCWREG2  | 6C         |           |
| TCCWFCHN | 2C         | 80        | TCCWREG3  | 70         |           |
| TCCWFIX  | C          |           | TCCWREG4  | 74         |           |
| TCCWFRC  | 14         |           | TCCWREG5  | 78         |           |
| TCCWFVC  | 10         |           | TCCWREG6  | 7C         |           |
| TCCWGTMN | 4          | C         | TCCWREG7  | 80         |           |
| TCCWHICA | 3C         |           | TCCWREG8  | 84         |           |
| TCCWHSTA | B4         |           | TCCWREG9  | 88         |           |
| TCCWIDAE | 4          | A0        | TCCWRESV  | C1         |           |
| TCCWIDAX | 2C         | 8         | TCCWRGSV  | 68         |           |
| TCCWINDA | 1C         |           | TCCWSATR  | 4          | 10        |
| TCCWINDL | 2E         |           | TCCWSAVA  | 64         |           |
| TCCWINDR | 24         |           | TCCWSAVD  | 48         |           |
| TCCWLBCT | C2         |           | TCCWSAVE  | 48         |           |
| TCCWLBLK | 2C         | 20        | TCCWSAV4  | 4C         |           |
| TCCWLOCA | 38         |           | TCCWSAV5  | 50         |           |
| TCCWLSTA | B0         |           | TCCWSAV6  | 54         |           |
| TCCWMOB  | 2C         |           | TCCWSAV7  | 58         |           |
| TCCWNVAL | 2C         | 10        | TCCWSAV8  | 5C         |           |
| TCCWOPBT | 44         |           | TCCWSAV9  | 60         |           |
| TCCWOPTN | 4          |           | TCCWTCB   | 0          |           |
| TCCWOPTR | 44         |           | TCCWTICA  | 34         |           |
| TCCWPAGF | B8         |           | TCCWTICL  | 20         |           |
| TCCWPAGL | BC         |           | TCCWTRER  | 4          | 90        |
| TCCWPCCW | 45         |           | TCCWUCB   | 5          |           |
| TCCWPC10 | 2C         | 4         | TCCWUNFX  | 4          | 8         |

## TCCW Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| TCCWVIDA | 2C            | 1            |
| TCCWVLCK | 2C            | 40           |
| TCCWVLER | 4             | E0           |
| TCCWVMER | 4             | D0           |
| TCCWXLAT | 4             | 0            |

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## TCT Programming Interface information

Programming Interface information

### TCT

**ONLY** the following field is part of the programming interface information:

- TCTJMR

End of Programming Interface information

## TCT Heading Information

**Common Name:** SMF TIMING CONTROL TABLE  
**Macro ID:** IEFTCT  
**DSECT Name:** SMFTCT  
**Owning Component:** System Management Facilities (SC100)  
**Eye-Catcher ID:** "TCT "  
 Offset: 208 ('D0' in hex)  
 Length: 8 bytes  
**Storage Attributes:** Subpool: 255  
 Key: 0  
 Residency: Below  
**Size:** 652 bytes ('284' in hex)  
 - 600 Common Section  
 - 52 Storage Table  
 FREQUENCY = 1 per address space  
**Created by:** IEFSMFIE  
**Pointed to by:** TCBTCT  
**Serialization:** Compare and Swap on some fields.  
**Function:** This mapping macro is composed of three control blocks (TCT, TCT I/O Measurement table, and Extended TCT I/O table). The TCT consists of a common section (SMFTCT), storage table (TCTCORE), OpenMVS Process table (TCTOMVS), and ARM table (TCTARM). SMFTCT and TCTCORE are one structure and are contiguous in storage. TCTOMVS is not contiguous with SMFTCT or TCTCORE. However, the TCTOMVS and TCTARM are contiguous. The TCT I/O Measurement table (TCTTIOT) and Extended TCT I/O table (ETCTIOT) are separate structures mapped within the IEFTCT mapping macro and pointed to from fields within the TCT. However, they are NOT contiguous in storage to the TCT or each other.

## TCT Map

| Offsets |     |            |     |            |                                                                                                  |
|---------|-----|------------|-----|------------|--------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                                                                      |
| 0       | (0) | STRUCTURE  | 0   | SMFTCT     | , - START OF TCT                                                                                 |
| 0       | (0) | CHARACTER  | 3   | TCTQA      | - QUEUE ADDRESS OF TCT                                                                           |
| 3       | (3) | BITSTRING  | 1   | TCTEXP (0) | - JOB/STEP TIME INDICATOR MASK                                                                   |
| 3       | (3) | BITSTRING  | 1   | TCTSW      | - TCT SWITCHES                                                                                   |
|         |     | 1... ....  |     | TCTJUSTI   | "BIT0" - TQE JOB/STEP TIME INDICATOR. IF 0, TQE CONTAINS STEP TIME. IF 1, TQE CONTAINS JOB TIME. |
|         |     | .1.. ....  |     | TCTIEX     | "BIT1" - ERROR IN TCT I/O TABLE I/O COUNTS (OS/VS2) MDC017                                       |
|         |     | ..1. ....  |     | TCTISK30   | "BIT2,,C'X'" - TYPE 30 INTERVAL RECORD SKIPPED                                                   |
|         |     | ...1 ....  |     | TCTISK32   | "BIT3,,C'X'" - TYPE 32 INTERVAL RECORD SKIPPED                                                   |
|         |     | .... 1...  |     | TCTIABD    | "BIT4,,C'X'" - PREVIOUS INTERVAL ABENDED                                                         |
|         |     | .... .1..  |     | TCTSTPRN   | "BIT5,,C'X'" - STEP RAN INDICATOR                                                                |
|         |     | .... ..1.  |     | TCTACTRT   | "BIT6,,C'X'" - IEFACTRT IN CONTROL INDICATOR                                                     |
|         |     | .... ...1  |     | TCTDCOPN   | "BIT7,,C'X'" - DMPCHCK RTN IN CONTROL INDICATOR                                                  |
| 4       | (4) | ADDRESS    | 4   | TCTTCB     | - ADDRESS OF THE INITIATOR TCB                                                                   |
| 8       | (8) | ADDRESS    | 4   | TCTCRTBL   | - ADDRESS OF THE TCT STORAGE TABLE                                                               |

| Offsets |      |            |     |              |                                                                                                                                              |
|---------|------|------------|-----|--------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                                                  |
| 12      | (C)  | ADDRESS    | 4   | TCTIOTBL     | - ADDRESS OF THE TCT I/O TABLE. TCT I/O TABLE IS NOT NECESSARILY CONTIGUOUS WITH THE TCT.                                                    |
| 16      | (10) | SIGNED     | 4   | TCTPOOL (0)  | - SUBPOOL/LENGTH FOR TCT PROPER                                                                                                              |
| 16      | (10) | SIGNED     | 2   |              | - SUBPOOL IN WHICH THE TCT RESIDES                                                                                                           |
| 18      | (12) | SIGNED     | 2   | TCTSZE       | - SIZE IN BYTES OF THE TCT AND THE TCT STORAGE TABLE                                                                                         |
| 20      | (14) | ADDRESS    | 4   | TCTUTL       | - ADDRESS OF USER TIME LIMIT ROUTINE                                                                                                         |
| 24      | (18) | ADDRESS    | 4   | TCTUDATA     | - ADDRESS OF A ONE-WORD PARAMETER LIST WHICH POINTS TO THE JOB MANAGEMENT RECORD (JMR)                                                       |
| 28      | (1C) | ADDRESS    | 4   | TCTJMR       | - ADDRESS OF THE JOB MANAGEMENT RECORD                                                                                                       |
| 32      | (20) | SIGNED     | 4   | TCTCPUS (0)  | ACCUM SESSION CPU SERVICE(OS/VS2)                                                                                                            |
| 32      | (20) | BITSTRING  | 4   | TCTRSV08     | - *** TCTUSO FIELD RESERVED IN OS/VS ***                                                                                                     |
| 36      | (24) | SIGNED     | 4   | TCTJSTX (0)  | - AMOUNT OF TIME THAT JOB OR STEP HAS BEEN EXTENDED BY USER EXIT IEFUTL (32-BIT UNSIGNED BINARY NUMBER) (OS/VS2) MDC005                      |
| 36      | (24) | SIGNED     | 4   | TCTSTOF      | - OVERFLOW FIELD FOR USER-SUPPLIED STEP TIME EXTENSIONS (OS/VS1) MDC001                                                                      |
| 40      | (28) | SIGNED     | 4   | TCTTJLM (0)  | - CONTAINS REMAINING JOB TIME (32-BIT UNSIGNED BINARY NUMBER) (OS/VS2) MDC006                                                                |
| 40      | (28) | SIGNED     | 4   | TCTSACT      | - A RUNNING TOTAL OF THE USER-SUPPLIED STEP TIME EXTENSIONS EXPRESSED IN TIMER UNITS (OS/VS1) MDC002                                         |
| 44      | (2C) | SIGNED     | 4   | TCTIOCS (0)  | ACCUM SESSION I/O SERVICE(OS/VS2)                                                                                                            |
| 44      | (2C) | SIGNED     | 4   | TCTWLMT      | - THE JOB OR STEP MAXIMUM WAIT TIME LIMIT AS SPECIFIED IN SMFDEFLT, EXPRESSED IN TIMER UNITS (OS/VS1) RESERVED - SET TO ZERO (OS/VS2) MDC016 |
| 48      | (30) | SIGNED     | 4   | TCTLIN       | - TSO - COUNT OF LINES OF TERMINAL INPUT                                                                                                     |
| 52      | (34) | SIGNED     | 4   | TCTLOUT      | - TSO - COUNT OF LINES OF TERMINAL OUTPUT                                                                                                    |
| 56      | (38) | SIGNED     | 4   | TCTAST       | - THE TIME OF DAY (TO ONE HUNDREDTH OF A SECOND) THAT DEVICE ALLOCATION STARTED ICB365                                                       |
| 60      | (3C) | SIGNED     | 4   | TCTPPST      | - THE TIME OF DAY (TO ONE HUNDREDTH OF A SECOND) THAT THE PROBLEM PROGRAM WAS INITIALLY LOADED INTO MAIN STORAGE ICB365                      |
| 64      | (40) | CHARACTER  | 20  | TCTPGSMF (0) | - SMF REGION-RELATED STATISTICS (OS/VS1) MDC007                                                                                              |
| 64      | (40) | SIGNED     | 4   | TCTAJS (0)   | - ACCUMULATED SESSION SERVICE TIME (OS/VS2) (MDC019) YM7459                                                                                  |
| 64      | (40) | SIGNED     | 4   | TCTPGIN      | - TOTAL PAGE-INS FOR THIS REGION (INCLUDING SWAP-INS) (OS/VS1) MDC007                                                                        |
| 68      | (44) | SIGNED     | 4   | TCTACT (0)   | - ACCUMULATED ACTIVE TIME (OS/VS2) (MDC020) YM7459                                                                                           |
| 68      | (44) | SIGNED     | 4   | TCTPGOUT     | - TOTAL PAGE-OUTS FOR THIS REGION (INCLUDING SWAP-OUTS) (OS/VS1) MDC008                                                                      |
| 72      | (48) | SIGNED     | 4   | TCTATR (0)   | - ACCUMULATED TRANSACTION RESIDENCY TIME (OS/VS2) (MDC302)                                                                                   |
| 72      | (48) | SIGNED     | 4   | TCTRGNS      | - TOTAL SWAPS PERFORMED FOR THIS TSO USER (SWAP-INS + SWAP-OUTS) (OS/VS1) MDC009                                                             |
| 76      | (4C) | SIGNED     | 4   | TCTMSOS (0)  | ACCUM SESSION MAIN STORAGE SERVICE (OS/VS2)                                                                                                  |
| 76      | (4C) | SIGNED     | 4   | TCTSIN       | - TOTAL PAGES SWAPPED-IN FOR THIS TSO USER (OS/VS1) MDC010                                                                                   |
| 80      | (50) | SIGNED     | 4   | TCTSRBS (0)  | ACCUM SESSION SRB SERVICE (OS/VS2)                                                                                                           |
| 80      | (50) | SIGNED     | 4   | TCTSOUT      | - TOTAL PAGES SWAPPED-OUT FOR THIS TSO USER (OS/VS1) MDC011                                                                                  |
| 84      | (54) | SIGNED     | 4   | TCTPDASD     | - NO OF MOUNTS FOR NONSPECIFIC DASD                                                                                                          |
| 88      | (58) | SIGNED     | 4   | TCTRDASD     | - NO OF MOUNTS FOR SPECIFIC DASD                                                                                                             |
| 92      | (5C) | SIGNED     | 4   | TCTPTAPE     | - NO OF MOUNTS FOR NONSPECIFIC TAPE                                                                                                          |
| 96      | (60) | SIGNED     | 4   | TCTRTAPE     | - NO OF MOUNTS FOR SPECIFIC TAPE                                                                                                             |
| 100     | (64) | SIGNED     | 4   | TCTPMSS      | - NO OF MOUNTS FOR NONSPECIFIC MSS                                                                                                           |
| 104     | (68) | SIGNED     | 4   | TCTRMSS      | - NO OF MOUNTS FOR SPECIFIC MSS                                                                                                              |
| 108     | (6C) | SIGNED     | 4   | TCTEJST      | - LAST VALUE OF ELAPSED TCB TIME                                                                                                             |
| 112     | (70) | SIGNED     | 4   | TCTSRBT      | - LAST VALUE OF ELAPSED SRB TIME                                                                                                             |
| 116     | (74) | SIGNED     | 4   | TCTSVTEP     | - LAST VALUE OF TOTAL BLOCK COUNT                                                                                                            |
| 120     | (78) | SIGNED     | 4   | TCTLINSV     | - LAST VALUE OF TPUT COUNT                                                                                                                   |
| 124     | (7C) | SIGNED     | 4   | TCTLOUTS     | - LAST VALUE OF TGET COUNT                                                                                                                   |
| 128     | (80) | SIGNED     | 4   | TCTTRAN      | - LAST VALUE OF FOREGROUND TRANS                                                                                                             |
| 132     | (84) | SIGNED     | 4   | TCTITCB      | - INITIATOR TCB TIME                                                                                                                         |

# TCT Map

| Offsets |       |            |     |              |                                                                                                        |
|---------|-------|------------|-----|--------------|--------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim)   | Description                                                                                            |
| 136     | (88)  | SIGNED     | 4   | TCTISRB      | - INITIATOR SRB TIME                                                                                   |
| 140     | (8C)  | SIGNED     | 4   | TCTT30J      | - ADDRESS OF JOB TOTAL TYPE 30 RCD                                                                     |
| 144     | (90)  | SIGNED     | 4   | TCTT30S      | - ADDRESS OF STEP TOTAL TYPE 30 RCD                                                                    |
| 148     | (94)  | SIGNED     | 4   | TCTT30H      | - ADDRESS OF EXCP HOLD TYPE 30 RCD                                                                     |
| 152     | (98)  | SIGNED     | 4   | TCTLCTAD     | - ADDRESS OF LCT                                                                                       |
| 156     | (9C)  | SIGNED     | 4   | TCTT32J      | - ADDRESS OF JOB TOTAL TYPE 32 RCD                                                                     |
| 160     | (A0)  | SIGNED     | 4   | TCTT32S      | - ADDRESS OF STEP TOTAL TYPE 32 RCD                                                                    |
| 164     | (A4)  | SIGNED     | 4   | TCT32SP      | - SUBPOOL AND SIZE OF TYPE 32 RCDS                                                                     |
| 168     | (A8)  | SIGNED     | 4   | TCT32BLK     | - ADDRESS OF DETAIL CONTROL BLOCK                                                                      |
| 172     | (AC)  | SIGNED     | 4   | TCTLRRCT     | - LAST VALUE OF THE ADDRESS SPACE RE-READ COUNT                                                        |
| 176     | (B0)  | SIGNED     | 4   | TCTIOSAV     | - ADDRESS OF SAVE AREA FOR IEASMFEX                                                                    |
| 180     | (B4)  | SIGNED     | 4   | TCTDCTI      | - LAST VALUE OF DEVICE CONNECT TIME                                                                    |
| 184     | (B8)  | SIGNED     | 4   | TCTTIMER     | - ADDRESS OF SMF TIMER ELEMENT                                                                         |
| 188     | (BC)  | SIGNED     | 4   | TCTMRSP      | - SUBPOOL AND SIZE OF TIMER ELT                                                                        |
| 192     | (C0)  | SIGNED     | 4   | TCTPARMS     | - ADDRESS OF TIMER PARAMETER LIST                                                                      |
| 196     | (C4)  | SIGNED     | 4   | TCTPRMSP     | - SUBPOOL AND SIZE OF PARM LIST                                                                        |
| 200     | (C8)  | CHARACTER  | 8   | TCTSNAM      | STEP NAME OF CURRENT STEP                                                                              |
| 208     | (D0)  | CHARACTER  | 8   | TCTTCT       | TCT IDENTIFIER FIELD                                                                                   |
| 216     | (D8)  | SIGNED     | 4   | TCTMSCT      | - NUMBER OF TIMES I/O MEASUREMENTS HAVE BEEN<br>TURNED OFF AT JOB START                                |
|         |       | 1... ....  |     | TCTMSOFF     | "X'80" I/O MEASUREMENTS ARE ON                                                                         |
| 220     | (DC)  | SIGNED     | 4   | TCTEIP       | - ELAPSED I/O INTERRUPT TIME                                                                           |
| 224     | (E0)  | SIGNED     | 4   | TCTERCT      | - ELAPSED RCT CPU TIME                                                                                 |
| 228     | (E4)  | SIGNED     | 4   | TCTRQSV      | Pointer to sysevent REQSVDAT parameter list                                                            |
| 232     | (E8)  | SIGNED     | 4   | TCTE39PP     | Pointer to sysevent REQPGDAT parameter list                                                            |
| 236     | (EC)  | CHARACTER  | 4   | TCTXR0DC     | RESERVED                                                                                               |
| 240     | (F0)  | SIGNED     | 4   | TCTADMFW     | Number of pages moved with ADMF WRITE                                                                  |
| 244     | (F4)  | SIGNED     | 4   | TCTADMFR     | Number of pages moved with ADMF READ                                                                   |
| 248     | (F8)  | SIGNED     | 4   | TCTEHPT      | - ELAPSED HIPERSPACE PROCESSING TIME                                                                   |
| 252     | (FC)  | SIGNED     | 4   | TCTEVFUT     | - LAST VALUE ELAPSED VF USAGE TIME                                                                     |
| 256     | (100) | SIGNED     | 4   | TCTEVFAT     | - LAST VALUE ELAPSED VF AFFINITY TIME                                                                  |
| 260     | (104) | SIGNED     | 4   | TCTIVFUT     | - INITIATOR VF USAGE TIME                                                                              |
| 264     | (108) | SIGNED     | 4   | TCTIVFAT     | - INITIATOR VF AFFINITY TIME                                                                           |
| 268     | (10C) | SIGNED     | 4   | TCTINTST     | - INTERVAL START TIME                                                                                  |
| 272     | (110) | SIGNED     | 4   | TCTINTDT     | - INTERVAL START DATE                                                                                  |
| 276     | (114) | CHARACTER  | 32  | TCTEINFO (0) | ETCTIOT INFORMATION                                                                                    |
| 276     | (114) | SIGNED     | 4   | TCTFETIO     | - ADDRESS OF FIRST ETCTIOT BLOCK                                                                       |
| 280     | (118) | SIGNED     | 4   | TCTLETIO     | - ADDRESS OF LAST ETCTIOT BLOCK                                                                        |
| 284     | (11C) | SIGNED     | 2   | TCTESUBP     | - ETCTIOT SUBPOOL                                                                                      |
| 286     | (11E) | SIGNED     | 2   | TCTELEN      | - LENGTH OF ONE ETCTIOT BLOCK                                                                          |
| 288     | (120) | SIGNED     | 4   | TCTEBLK      | - NUMBER OF ETCTIOT 4K BLOCKS                                                                          |
| 292     | (124) | SIGNED     | 4   | TCTEFAVL     | - 1ST AVAILABLE ETCTIOT TOKEN                                                                          |
| 296     | (128) | SIGNED     | 4   | TCTELAVL     | - LAST AVAILABLE ETCTIOT TOKEN                                                                         |
| 300     | (12C) | SIGNED     | 4   | TCTENAVL     | - NUMBER OF AVAILABLE ETCTIOT ENTRIES                                                                  |
| 304     | (130) | CHARACTER  | 4   | TCTEFLGS     | - ETCTIOT FLAGS                                                                                        |
|         |       | 1... ....  |     | TCTCOMP      | "X'80" - TCTIOT BEING MOVED INDICATOR                                                                  |
|         |       | .1.. ....  |     | TCTDUMMY     | "X'40" - When set by IEFIB660, this flag represents a Dummy<br>TCTIOT. It will be checked by IEFDB4F9. |
| 308     | (134) | SIGNED     | 4   | TCTANSC      | - INTEGRATED CRYPTO SERVICE COUNT                                                                      |
| 312     | (138) | BITSTRING  | 1   | TCTMRFL (2)  | PREVIOUS INTERVAL TIMER BIT FLAGS                                                                      |
|         |       | 1... ....  |     | TCTCTF       | "X'80" SMF30CPT TIMER INVALID                                                                          |
|         |       | .1.. ....  |     | TCTCSF       | "X'40" SMF30CPS TIMER INVALID                                                                          |
|         |       | ..1. ....  |     | TCTVUF       | "X'20" SMF30JVU TIMER INVALID                                                                          |
|         |       | ...1 ....  |     | TCTVAF       | "X'10" SMF30JVA TIMER INVALID                                                                          |
|         |       | .... 1...  |     | TCTISF       | "X'08" SMF30ISB TIMER INVALID                                                                          |
|         |       | .... .1..  |     | TCTICF       | "X'04" SMF30ICU TIMER INVALID                                                                          |
|         |       | .... ..1.  |     | TCTIVF       | "X'02" SMF30IVU TIMER INVALID                                                                          |
|         |       | .... ...1  |     | TCTIAF       | "X'01" SMF30IVA TIMER INVALID                                                                          |
|         |       | 1... ....  |     | TCTIIF       | "X'80" SMF30IIP TIMER INVALID                                                                          |
|         |       | .1.. ....  |     | TCTHFP       | "X'40" SMF30HPT TIMER INVALID                                                                          |
|         |       | ..1. ....  |     | TCTRCF       | "X'20" SMF30RCT TIMER INVALID                                                                          |
|         |       | ...1 ....  |     | TCTASF       | "X'10" SMF30ASR TIMER INVALID                                                                          |
|         |       | .... 1...  |     | TCTENF       | "X'08" SMF30ENC TIMER INVALID                                                                          |
|         |       | .... .1..  |     | TCTDEF       | "X'04" SMF30DET TIMER INVALID                                                                          |

| Offsets |       |                        |     |                     |                                                                                             |
|---------|-------|------------------------|-----|---------------------|---------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value             | Len | Name (Dim)          | Description                                                                                 |
| 314     | (13A) | BITSTRING<br>1... .... | 1   | TCTFLAGS<br>TCTTCT2 | TCT Flags<br>"X'80" DSABTCT2 should be used to contain the offset to the lookup table entry |
| 315     | (13B) | BITSTRING              | 1   | TCTSRMSP            | Subpool for TCTRQSV, TCTE39PP                                                               |
| 316     | (13C) | SIGNED                 | 4   | TCTT33SP            | Address of Type 33 TP Work Area                                                             |
| 320     | (140) | SIGNED                 | 4   | TCTT33J             | Address of Type 33 TP JOB Record                                                            |
| 324     | (144) | SIGNED                 | 4   | TCTT33S             | Address of Type 33 TP STEP Record                                                           |
| 328     | (148) | SIGNED                 | 4   | TCTTPTYP            | APPC TP Type (Standard/Multi)                                                               |
| 332     | (14C) | SIGNED                 | 4   | TCTTPTCB            | Last Value of TCB Time for TP                                                               |
| 336     | (150) | SIGNED                 | 4   | TCTTPSRB            | Last Value of SRB Time for TP                                                               |
| 340     | (154) | SIGNED                 | 4   | TCTTPEXP            | Last Value of EXCP Count for TP                                                             |
| 344     | (158) | SIGNED                 | 4   | TCTTPDCT            | Last Value of Dev Conn Time for TP                                                          |
| 348     | (15C) | SIGNED                 | 4   | TCTTPNUM            | Number of Transactions Processed                                                            |
| 352     | (160) | SIGNED                 | 4   | TCTTPCON            | Number of Conversations                                                                     |
| 356     | (164) | SIGNED                 | 4   | TCTTPTAC            | Number of Active Cons                                                                       |
| 360     | (168) | SIGNED                 | 4   | TCTTPCNA            | Number of Cons Allocated                                                                    |
| 364     | (16C) | SIGNED                 | 4   | TCTTPSEN            | Number of Sends for TP                                                                      |
| 368     | (170) | CHARACTER              | 8   | TCTTPDAT            | Amount of Data Sent                                                                         |
| 376     | (178) | SIGNED                 | 4   | TCTTPREC            | Number of Recvs for TP                                                                      |
| 380     | (17C) | CHARACTER              | 8   | TCTTPDAR            | Amount of Data Received                                                                     |
| 388     | (184) | CHARACTER              | 4   | TCTSUBNM            | Scheduler of Job                                                                            |
| 392     | (188) | ADDRESS                | 4   | TCTOMVSP            | Address of TCTOMVS Table                                                                    |
| 396     | (18C) | ADDRESS                | 4   | TCTT30PH            | Address of T30AREA for Process Data                                                         |
| 400     | (190) | ADDRESS                | 4   | TCTT30SE            | Address of T30AREA for Step EXCP Data                                                       |
| 404     | (194) | ADDRESS                | 4   | TCTT30SP            | Address of T30AREA for Step Process Data                                                    |
| 408     | (198) | ADDRESS                | 4   | TCTT30JE            | Address of T30AREA for Job EXCP Data                                                        |
| 412     | (19C) | ADDRESS                | 4   | TCTT30JP            | Address of T30AREA for Job Process Data                                                     |
| 416     | (1A0) | CHARACTER              | 8   | TCTISS              | SMF Interval Start Time (STCK Format)                                                       |
| 424     | (1A8) | SIGNED                 | 4   | TCT30CN             | Last Number of Conversations                                                                |
| 428     | (1AC) | SIGNED                 | 4   | TCT30CNA            | Last Number of Cons Allocated                                                               |
| 432     | (1B0) | SIGNED                 | 4   | TCT30SEN            | Last Number of Sends for TP                                                                 |
| 436     | (1B4) | CHARACTER              | 8   | TCT30DAT            | Last Amount of Data Sent                                                                    |
| 444     | (1BC) | SIGNED                 | 4   | TCT30REC            | Last Number of Recvs for TP                                                                 |
| 448     | (1C0) | CHARACTER              | 8   | TCT30DAR            | Last Amount of Data Received                                                                |
| 456     | (1C8) | SIGNED                 | 4   | TCT30ATR            | Last Number of Transactions Processed                                                       |
| 460     | (1CC) | SIGNED                 | 4   | TCTUACL             | Usage ACA Lockword                                                                          |
| 464     | (1D0) | ADDRESS                | 4   | TCTUACA             | Address of First ACA for job                                                                |
| 468     | (1D4) | ADDRESS                | 4   | TCTUTCAC            | Addr of 1st TCA on consolidated chain                                                       |
| 472     | (1D8) | ADDRESS                | 4   | TCTUTCA             | Address of First TCA on chain                                                               |
| 476     | (1DC) | ADDRESS                | 4   | TCTUFCAC            | Addr of 1st FCA on consolidated chain                                                       |
| 480     | (1E0) | ADDRESS                | 4   | TCTUFCA             | Address of First FCA on chain                                                               |
| 484     | (1E4) | SIGNED                 | 4   | TCTRSMTG            | Usage RESMGR Token                                                                          |
| 488     | (1E8) | ADDRESS                | 4   | TCTUTIMR            | Usage Timer Element                                                                         |
| 492     | (1EC) | ADDRESS                | 4   | TCTUTPRM            | Usage Timer ParmArea                                                                        |
| 496     | (1F0) | ADDRESS                | 4   | TCTT30UH            | Address of T30AREA Hold area for Usage Entries                                              |
| 500     | (1F4) | ADDRESS                | 4   | TCTT30US            | Address of T30AREA Step Hold Area for Usage Entries                                         |
| 504     | (1F8) | ADDRESS                | 4   | TCTT30UJ            | Address of T30AREA Job Hold Area for Usage Entries                                          |
| 508     | (1FC) | ADDRESS                | 4   | TCTARM              | Address of TCTARM table                                                                     |
| 512     | (200) | ADDRESS                | 4   | TCTT30AH            | Address of T30AREA for ARM Data                                                             |
| 516     | (204) | ADDRESS                | 4   | TCTT30SA            | Address of T30AREA for Step ARM Data                                                        |
| 520     | (208) | ADDRESS                | 4   | TCTT30JA            | Address of T30AREA for Job ARM Data                                                         |
| 524     | (20C) | SIGNED                 | 4   | TCTASST             | Additional SRB Service Time                                                                 |
| 528     | (210) | SIGNED                 | 4   | TCTECPT             | Enclave CPU Time                                                                            |
| 532     | (214) | SIGNED                 | 4   | TCTETIM             | Enclave Transaction Active Time                                                             |
| 536     | (218) | SIGNED                 | 4   | TCTECPU             | Enclave CPU Service Units                                                                   |
| 540     | (21C) | SIGNED                 | 4   | TCTETC              | Enclave Transaction Count                                                                   |
| 544     | (220) | SIGNED                 | 4   | TCTASSTC            | Additional SRB Service Time (Cumulative)                                                    |
| 548     | (224) | SIGNED                 | 4   | TCTECPTC            | Enclave CPU Time (Cumulative) including dependent enclave time                              |
| 552     | (228) | SIGNED                 | 4   | TCTDET              | Dependent enclave CPU time                                                                  |
| 556     | (22C) | SIGNED                 | 4   | TCT30AIC            | Saved copy of RQSVAIC                                                                       |
| 560     | (230) | SIGNED                 | 4   | TCT30AID            | Saved copy of RQSVAID                                                                       |
| 564     | (234) | SIGNED                 | 4   | TCT30AIW            | Saved copy of RQSVAIW                                                                       |
| 568     | (238) | SIGNED                 | 4   | TCT30AIS            | Saved copy of RQSVAIS                                                                       |

# TCT Map

| Offsets |       |            |     |            |                                                      |
|---------|-------|------------|-----|------------|------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim) | Description                                          |
| 572     | (23C) | SIGNED     | 4   | TCT30EIC   | Saved copy of RQSVEIC                                |
| 576     | (240) | SIGNED     | 4   | TCT30EID   | Saved copy of RQSVEID                                |
| 580     | (244) | SIGNED     | 4   | TCT30EIW   | Saved copy of RQSVEIW                                |
| 584     | (248) | SIGNED     | 4   | TCT30EIS   | Saved copy of RQSVEIS                                |
| 588     | (24C) | SIGNED     | 4   | TCTT30SR   | Address of STEP area for Remote System Data entries. |
| 592     | (250) | SIGNED     | 4   | TCTT30JR   | Address of JOB area for Remote System Data entries.  |
| 596     | (254) | SIGNED     | 4   |            | pad to doubleword boundary                           |
| 596     | (254) | X'258'     | 0   | TCTEND     | *** END OF TCT MAPPING                               |
| 596     | (254) | X'258'     | 0   | TCTCOMZ    | **SMFTCT" - LENGTH OF TCT COMMON SECTION             |

Comment

## TCT STORAGE TABLE

A SEPARATE TABLE IS USED TO DESCRIBE THE STORAGE OBTAINED FOR A TASK. THE STORAGE TABLE IS CONTIGUOUS TO THE TCT. IT IS POINTED TO BY THE TCTCRTBL FIELD IN THE TCT COMMON SECTION.

| End of Comment |       |           |   |             |                                                                                                                                    |
|----------------|-------|-----------|---|-------------|------------------------------------------------------------------------------------------------------------------------------------|
| 600            | (258) | DBL WORD  | 8 | TCTCORE (0) | - START OF TCT STORAGE TABLE POINTED TO BY TCTCRTBL                                                                                |
| 600            | (258) | SIGNED    | 4 | TCTLWM      | - MAX VIRTUAL STORAGE IN USER SUBPOOLS BELOW 16M                                                                                   |
| 604            | (25C) | SIGNED    | 4 | TCTHWM      | - MAX VIRTUAL STORAGE IN SWA AND LSQA BELOW 16M                                                                                    |
| 608            | (260) | SIGNED    | 2 | TCTMINC     | - THE MINIMUM DIFFERENCE (IN 2K BLOCKS) BETWEEN TCTLWM AND TCTHWM. THIS FIGURE REPRESENTS THE UNUSED PORTION OF THE USER'S REGION. |
| 610            | (262) | SIGNED    | 2 | TCTRSV00    | - RESERVED. REGION FIELD INCREASED TO FULLWORD AND MOVED TO THE END OF THE TCT STORAGE TABLE                                       |
| 612            | (264) | ADDRESS   | 4 | TCTRBA      | - FOR A V=V PROBLEM PROGRAM, LOWEST ADDRESS IN PRIVATE AREA. FOR A V=R PROBLEM PROGRAM, LOWEST ADDRESS IN REGION. (OS/VS2) MDC012  |
| 616            | (268) | SIGNED    | 4 | TCTEHWM     | - MAX VIRTUAL STORAGE IN SWA AND LSQA ABOVE 16M                                                                                    |
| 620            | (26C) | SIGNED    | 4 | TCTELWM     | - MAX VIRTUAL STORAGE IN USER SUBPOOLS ABOVE 16M                                                                                   |
| 624            | (270) | SIGNED    | 4 | TCTRGNB     | PRIVATE AREA BELOW 16M IN BYTES                                                                                                    |
| 628            | (274) | SIGNED    | 4 | TCTERGNB    | PRIVATE AREA ABOVE 16M IN BYTES                                                                                                    |
| 632            | (278) | SIGNED    | 4 | TCTRSZ      | ORIGINAL REGION REQUEST IN 2K BLOCKS                                                                                               |
| 636            | (27C) | SIGNED    | 4 | TCTRSV01    | - RESERVED                                                                                                                         |
| 640            | (280) | DBL WORD  | 8 | TCTMEM      | - MEMLIMIT IN MB                                                                                                                   |
| 648            | (288) | CHARACTER | 1 | TCTMEMS     | - SOURCE OF MEMLIMIT                                                                                                               |
| 649            | (289) | CHARACTER | 3 | TCTRSV02    | - RESERVED                                                                                                                         |
| 649            | (289) | X'34'     | 0 | TCTCREZ     | **TCTCORE" - LENGTH OF TCT STORAGE TABLE                                                                                           |
| 649            | (289) | X'28C'    | 0 | TCTBIG      | **SMFTCT" - COMBINED LENGTH OF TCT COMMON SECTION AND TCT STORAGE TABLE                                                            |



## Offsets

| Dec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Hex   | Type/Value | Len | Name (Dim)   | Description                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|-----|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |            |     |              |                                                                                                                                                            |
| <p>TCT INPUT/OUTPUT MEASUREMENT TABLE</p> <p>THE TCT I/O MEASUREMENT TABLE (TCTTIOT) IS COMPOSED OF THE TCT I/O LOOKUP TABLE AND THE TCT I/O COUNTER TABLE. IT IS USED TO COLLECT I/O MEASUREMENTS AT THE DD LEVEL. THE TCTTIOT IS NOT CONTIGIOUS TO THE TCT. THE TCTIOTBL FIELD IN THE TCT COMMON SECTION POINTS TO THE TCTTIOT.</p> <p>THE TCTTIOT IS CREATED BY IEFIB660 IN SUBPOOL 255/KEY 0 AND RESIDES ABOVE THE 16M LINE.</p> <p>THE TCT I/O LOOKUP TABLE CONTAINS 1 COMMON SECTION AND A DD LOOKUP TABLE. THE DD LOOKUP TABLE IS AN ARRAY WITH EACH ELEMENT REPRESENTING ONE DD ENTRY IN THE TIOT (IEFTIOT). SMF REFERENCES THESE DD LOOK-UP ENTRIES TO FIND THE FIRST DEVICE ENTRY IN THE TCT I/O COUNTER TABLE ASSOCIATED WITH A PARTICULAR DD.</p> <p>THE TCT I/O COUNTER TABLE CONSISTS OF ONE DD ENTRY PER ENTRY IN THE DD LOOK-UP TABLE. EACH DD ENTRY CONSISTS OF 1 OR MORE 24 BYTE DEVICE ENTRIES WHICH REPRESENT THE UCBS ASSOCIATED WITH THE DD. THERE IS ONE 8 BYTE OUTPUT LIMIT EXTENSION WHICH IS USED BY GPD.</p> <p>THE SIZE OF THE TCTTIOT IS DEPENDENT ON THE NUMBER OF DDS PER JOB. THERE IS 1 DD LOOKUP TABLE PER DD AND 1 DEVICE ENTRY PER DEVICE (UCB) PER DD.</p> |       |            |     |              |                                                                                                                                                            |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |            |     |              |                                                                                                                                                            |
| 649                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (289) | X'28C'     | 0   | TCTTIOT      | *** - BEGINNING OF TCT I/O TABLE                                                                                                                           |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |            |     |              |                                                                                                                                                            |
| TCT I/O LOOKUP TABLE (ONE TABLE PER DD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |            |     |              |                                                                                                                                                            |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |            |     |              |                                                                                                                                                            |
| 652                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (28C) | SIGNED     | 4   | TCTPLEXT (0) | - SUBPOOL/LENGTH OF TCT I/O TABLE                                                                                                                          |
| 652                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (28C) | BITSTRING  | 1   |              | - SUBPOOL IN WHICH THE TCT I/O TABLE RESIDES                                                                                                               |
| 653                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (28D) | BITSTRING  | 3   | TCTSZEXT     | SIZE IN BYTES OF TCT I/O TABLE                                                                                                                             |
| 656                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (290) | SIGNED     | 4   | TCTSZLKP     | - NUMBER OF DEVICE ENTRIES IN THE TCT TCTDDLLEN TABLE TIMES 24                                                                                             |
| 656                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (290) | X'8'       | 0   | TCTCOMIO     | ** - TCTTIOT" - LENGTH OF TCT I/O TABLE COMMON SECTION                                                                                                     |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |            |     |              |                                                                                                                                                            |
| DD LOOKUP TABLE ENTRY (ONE ENTRY PER DD ENTRY IN THE TIOT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |            |     |              |                                                                                                                                                            |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |            |     |              |                                                                                                                                                            |
| 656                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (290) | X'294'     | 0   | TCTIODSP     | *** - START OF DD LOOKUP TABLE ENTRY                                                                                                                       |
| 660                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (294) | SIGNED     | 4   | TCTDCBTD     | - OFFSET FROM THE TIOT ORIGIN TO THE TIOT ENTRY FOR THE DD STATEMENT ASSOCIATED WITH THE ACCESSED DATA SET NOTE: THE TIOT ENTRIES MAY -NOT- BE CONTIGUOUS. |
| 664                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (298) | SIGNED     | 4   | TCTIOTSD     | - OFFSET FROM THE TCT I/O TABLE ORIGIN TO THE DD ENTRY, WITHIN THE TCT I/O COUNTER TABLE, ASSOCIATED WITH THE ACCESSED DATA SET                            |
| 668                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (29C) | SIGNED     | 4   | TCTDCBLE     | - END OF TCT I/O LOOKUP TABLE (ZEROS)                                                                                                                      |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |            |     |              |                                                                                                                                                            |
| TCT I/O COUNTER TABLE (ONE ENTRY PER DD ENTRY IN THE DD LOOK-UP TABLE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |            |     |              |                                                                                                                                                            |
| DEVICE ENTRY (ONE ENTRY PER DEVICE (UCB) PER DD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |            |     |              |                                                                                                                                                            |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |            |     |              |                                                                                                                                                            |

# TCT Map

| Offsets |       |            |     |            |                                                                                                                                                                                                                                                             |
|---------|-------|------------|-----|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                                                                 |
| 668     | (29C) | X'2A0'     | 0   | TCTDDENT   | *** - START OF TCT I/O COUNTER TABLE (DEVICE ENTRY)                                                                                                                                                                                                         |
| 672     | (2A0) | SIGNED     | 4   | TCTUCBP    | - ADDRESS OF THE UCB ASSOCIATED WITH THIS DEVICE                                                                                                                                                                                                            |
| 676     | (2A4) | SIGNED     | 1   | TCTSCTR    | - NUMBER OF DEVICES ASSOCIATED WITH THIS DD STATEMENT. THIS NUMBER REPRESENTS THE NUMBER OF DEVICE ENTRIES WITHIN THIS DD ENTRY. THIS FIELD CONTAINS ZEROS IN ALL BUT ITS FIRST APPEARANCE IN ANY DD ENTRY. X'FF' INDICATES SYSIN DATA SET (OS/VS1). ICB375 |
| 677     | (2A5) | BITSTRING  | 1   | TCTFLGS    | - FLAG BYTE MDC013                                                                                                                                                                                                                                          |
|         |       | 1... ....  |     | TCTDDIND   | "X'80" - END OF CONCATENATED DD STRING (OS/VS1) MDC014                                                                                                                                                                                                      |
|         |       | .1.. ....  |     | TCTVAMDS   | "X'40" - VAM DATA SET ENTRY. TCTUCBP FIELD IS ZERO WHEN THIS BIT IS ONE. MDC015                                                                                                                                                                             |
|         |       | ..1. ....  |     | TCTNOCNT   | "X'20" - IF ON, DO NOT COUNT THE EXCP (OS/VS1) (MDC301)                                                                                                                                                                                                     |
|         |       | ...1 ....  |     | TCTRSV22   | "X'10',C'X" - RESERVED                                                                                                                                                                                                                                      |
|         |       | .... 1..   |     | TCTRSV23   | "X'08',C'X" - RESERVED                                                                                                                                                                                                                                      |
|         |       | .... .1..  |     | TCTRSV24   | "X'04',C'X" - RESERVED                                                                                                                                                                                                                                      |
|         |       | .... ..1.  |     | TCTRSV25   | "X'02',C'X" - RESERVED                                                                                                                                                                                                                                      |
|         |       | .... ...1  |     | TCTRSV26   | "X'01',C'X" - RESERVED                                                                                                                                                                                                                                      |
|         |       | 678        |     | (2A6)      | SIGNED                                                                                                                                                                                                                                                      |
|         |       | 1... ....  |     | TCTCBSZ    | "X'80" CHANGED BLOCK SIZE IF ON                                                                                                                                                                                                                             |
| 680     | (2A8) | SIGNED     | 4   | TCTDCTR    | - COUNTER FOR EXCP'S ISSUED AGAINST THIS UCB (DEVICE)                                                                                                                                                                                                       |
| 684     | (2AC) | SIGNED     | 4   | TCTDCTRS   | - SAVED EXCP COUNT FOR THIS ENTRY                                                                                                                                                                                                                           |
| 688     | (2B0) | SIGNED     | 4   | TCTCONN    | - DEVICE CONNECT TIME                                                                                                                                                                                                                                       |
| 692     | (2B4) | SIGNED     | 4   | TCTCONNS   | - SAVED DEVICE CONNECT TIME                                                                                                                                                                                                                                 |
| 696     | (2B8) | BITSTRING  | 8   | TCTXBLKS   | BLOCKSIZE >32K FOR THIS DD NAME                                                                                                                                                                                                                             |
| 696     | (2B8) | X'20'      | 0   | TCTDDLEN   | **TCTUCBP"                                                                                                                                                                                                                                                  |

Comment

OUTPUT LIMIT EXTENSION

End of Comment

|     |       |           |   |          |                                                                                                                                                    |
|-----|-------|-----------|---|----------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 704 | (2C0) | BITSTRING | 4 | TCTRSV10 | - *** TCTOUTLM FIELD RESERVED IN OS/VS ***                                                                                                         |
| 708 | (2C4) | SIGNED    | 1 | TCTEXRLD | - A BINARY NUMBER OF EXTENTS RELEASED BY THE DADSM RELEASE ROUTINE. COLLECTED ONLY IF RLSE WAS SPECIFIED IN THE SPACE PARAMETER FOR THIS DATA SET. |
| 709 | (2C5) | SIGNED    | 3 | TCTTKRLD | - A BINARY NUMBER OF TRACKS RELEASED BY THE DADSM RELEASE ROUTINE. COLLECTED ONLY IF RLSE WAS SPECIFIED IN THE SPACE PARAMETER FOR THIS DATA SET.  |

## Offsets

| Dec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Hex   | Type/Value | Len | Name (Dim)   | Description                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|-----|--------------|--------------------------------------------------------|
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |            |     |              |                                                        |
| <p>EXTENDED TCTIOT CONTROL BLOCK</p> <p>THE ETCTIOT IS A CHAIN OF 4K BLOCKS. EACH 4K BLOCK CONSISTS OF A 16 BYTE HEADER AND AN ARRAY OF A MAXIMUM OF 340 ELEMENTS. EACH ELEMENT IS 12 BYTES IN LENGTH AND REPRESENTS A DD ENTRY IN THE TCTIOT.</p> <p>THE ETCTIOT IS NOT CONTIGUOUS TO THE TCT COMMON SECTION OR THE TCTIOT. THE FIRST ETCTIOT IS POINTED TO BY THE TCTFETIO FIELD IN THE TCT COMMON SECTION. ADDITIONAL FIELDS EXIST IN THE TCT COMMON SECTION WHICH DESCRIBE THE ETCTIOT CHAIN. THE ETCTIOT IS CREATED BY IEFIB660 IN SUBPOOL 255 AND KEY 0. THE CHAIN RESIDES ABOVE THE 16M LINE.</p> <p>THERE IS 1 ETCTIOT CHAIN PER ADDRESS SPACE. THE SIZE OF THE CHAIN IS BASED ON THE NUMBER OF DDS PER JOB:</p> <p>MINIMUM CHAIN = 1 4K BLOCK (1 4096 = 4096 BYTES)</p> <p>AVERAGE CHAIN = 1 4K BLOCK (AVERAGE JOB &lt; 100 DDS)</p> <p>MAXIMUM CHAIN = 10 4K BLOCKS (10 4096 = 40,960 BYTES)</p> <p>= MAXIMUM CHAIN IS BASED ON 3273 DDS</p> <p>ETCTIOT HEADER (ONE HEADER PER BLOCK)</p> |       |            |     |              |                                                        |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |            |     |              |                                                        |
| 709                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2C5) | X'2C8'     | 0   | ETCTIOT      | *** - EXTENDED TCTIOT                                  |
| 709                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2C5) | X'2C8'     | 0   | ETCTHDR      | *** - ETCTIOT HEADER SECTION                           |
| 712                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2C8) | CHARACTER  | 7   | ETCTID       | - ETCTIOT IDENTIFIER = 'ETCTIOT'                       |
| 719                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2CF) | CHARACTER  | 1   | ETCTVER      | - ETCTIOT VERSION NUMBER = X'01'                       |
| 720                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2D0) | SIGNED     | 4   | ETCTFCHN     | - NEXT ETCTIOT BLOCK ADDRESS                           |
| 724                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2D4) | SIGNED     | 4   | ETCTBCHN     | - PREVIOUS ETCTIOT BLOCK ADDRESS                       |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |            |     |              |                                                        |
| <p>ETCTIOT ELEMENT (MAXIMUM OF 340 12 BYTE ELEMENTS PER BLOCK)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |            |     |              |                                                        |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |            |     |              |                                                        |
| 724                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2D4) | X'2D8'     | 0   | ETCTNTRY     | *** ETCTIOT DD ENTRY                                   |
| 728                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2D8) | SIGNED     | 4   | ETCTNEXT     | - NEXT TOKEN                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | 1... ..    |     | ETCTIUSE     | "X'80" - ENTRY IN USE (1=IN USE)                       |
| 732                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2DC) | SIGNED     | 4   | ETCTDSAB     | - DSAB ADDRESS OF ENTRY                                |
| 736                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2E0) | SIGNED     | 4   | ETCTSTIO     | - TCTIOT DD LOOKUP ENTRY OFFSET                        |
| Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |            |     |              |                                                        |
| <p>TCTOMVS - TCT OpenMVS Process Data Table</p> <p>The OpenMVS Process Data Table is 104 bytes.</p> <p>Size should always be a multiple of 8.</p> <p>THE TCT OpenMVS PROCESS DATA TABLE (TCTOMVS) IS POINTED TO BY TCTOMVSP IN THE TCT COMMON SECTION.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |            |     |              |                                                        |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |            |     |              |                                                        |
| 736                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2E0) | X'2E4'     | 0   | TCTOMVS      | *** - TCT OpenMVS Table                                |
| 740                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2E4) | CHARACTER  | 8   | TCTOMVSH (0) | - TCT OpenMVS Header Section                           |
| 740                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2E4) | CHARACTER  | 4   | TCTOID       | Control Block ID 'TCTO'                                |
| 744                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2E8) | SIGNED     | 4   | TCTOSPLN (0) | Control Block Subpool and Length                       |
| 744                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2E8) | BITSTRING  | 1   | TCTOSP       | - Subpool                                              |
| 745                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2E9) | BITSTRING  | 3   | TCTOLN       | - Length                                               |
| 748                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2EC) | CHARACTER  | 96  | TCTOMVSD (0) | - TCT OpenMVS Data Section                             |
| 748                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2EC) | SIGNED     | 4   | TCTOPI       | - Process ID                                           |
| 752                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2F0) | SIGNED     | 4   | TCTOPG       | - Process Group ID                                     |
| 756                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2F4) | SIGNED     | 4   | TCTOUI       | - Process User ID                                      |
| 760                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2F8) | SIGNED     | 4   | TCTOUG       | - Process User Group ID                                |
| 764                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (2FC) | SIGNED     | 4   | TCTOSI       | - Process Session ID                                   |
| 768                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (300) | SIGNED     | 4   | TCTOSC       | - Number of syscalls requested                         |
| 772                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (304) | SIGNED     | 4   | TCTOST       | - Total CPU Time accumulated by the syscalls requested |

## TCT Map

| Offsets |       |            |     |            |                                                                    |
|---------|-------|------------|-----|------------|--------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim) | Description                                                        |
| 776     | (308) | SIGNED     | 4   | TCTODR     | - Number of directory I/O blocks read                              |
| 780     | (30C) | SIGNED     | 4   | TCTOFR     | - Number of I/O blocks read for standard files                     |
| 784     | (310) | SIGNED     | 4   | TCTOFW     | - Number of I/O blocks written for standard files                  |
| 788     | (314) | SIGNED     | 4   | TCTOPR     | - Number of I/O blocks read for pipe files                         |
| 792     | (318) | SIGNED     | 4   | TCTOPW     | - Number of I/O blocks written for pipe files                      |
| 796     | (31C) | SIGNED     | 4   | TCTOSR     | - Number of I/O blocks read for special files                      |
| 800     | (320) | SIGNED     | 4   | TCTOSW     | - Number of I/O blocks written for special files                   |
| 804     | (324) | SIGNED     | 4   | TCTOLL     | - Number of path name Lookup calls to the logical file system      |
| 808     | (328) | SIGNED     | 4   | TCTOLP     | - Number of path name Lookup calls to the physical file system     |
| 812     | (32C) | SIGNED     | 4   | TCTOGL     | - Number of path name Generation calls to the logical file system  |
| 816     | (330) | SIGNED     | 4   | TCTOGP     | - Number of path name Generation calls to the physical file system |
| 820     | (334) | SIGNED     | 4   | TCTOPP     | - OpenMVS parent process ID number                                 |
| 824     | (338) | SIGNED     | 4   | TCTOKR     | - Number of I/O blocks read for Remote socket by the process       |
| 828     | (33C) | SIGNED     | 4   | TCTOKW     | - Number of I/O blocks written for Remote socket by the process    |
| 832     | (340) | SIGNED     | 4   | TCTOMS     | - Number of message queues bytes sent                              |
| 836     | (344) | SIGNED     | 4   | TCTOMR     | - Number of message queues bytes received                          |
| 840     | (348) | SIGNED     | 4   | TCTOSY     | - Number of sync() function calls                                  |

Comment

TCTARM - TCT ARM Data Table

The ARM data table is 88 bytes.

The TCT ARM Data Table (TCTARM) is pointed to by TCTARMP in the TCT common section.

End of Comment

|     |       |           |    |              |                                                                                                                                                                                                            |
|-----|-------|-----------|----|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 840 | (348) | X'34C'    | 0  | TCTARM       | *** - TCT ARM Table                                                                                                                                                                                        |
| 844 | (34C) | CHARACTER | 4  | TCTAID       | Control Block ID 'TCTA'                                                                                                                                                                                    |
| 848 | (350) | SIGNED    | 4  | TCTASPLN (0) | Control Block Subpool and Length                                                                                                                                                                           |
| 848 | (350) | BITSTRING | 1  | TCTASP       | - Subpool                                                                                                                                                                                                  |
| 849 | (351) | BITSTRING | 3  | TCTALN       | - Length                                                                                                                                                                                                   |
| 852 | (354) | CHARACTER | 80 | TCTARMD (0)  | - TCT ARM Data                                                                                                                                                                                             |
| 852 | (354) | CHARACTER | 16 | TCTARNM      | Element Name                                                                                                                                                                                               |
| 868 | (364) | CHARACTER | 8  | TCTARTP      | Element Type                                                                                                                                                                                               |
| 876 | (36C) | CHARACTER | 16 | TCTARRG      | Restart Group for Element                                                                                                                                                                                  |
| 892 | (37C) | CHARACTER | 8  | TCTARSN      | The system name for the system on which the element was initially started. blank, for the initial start                                                                                                    |
| 900 | (384) | SIGNED    | 4  | TCTARGET     | - Time (local) Element requested REGISTER Function, in hundredths of a second                                                                                                                              |
| 904 | (388) |           | 1  | TCTARGD      | - Date Element requested REGISTER Function, in the form 0cyydddF (where 'F' is the sign)                                                                                                                   |
| 908 | (38C) | SIGNED    | 4  | TCTARWT      | - Time (local) Element requested WAITPRED function, in hundredths of a second Note that this is the time that the function was requested, not satisfied. 0, if the element has not requested the function. |
| 912 | (390) |           | 1  | TCTARWD      | - Date Element requested WAITPRED function, in the following format: 0cyydddF (where 'F' is the sign) 0, if the element has not requested the function.                                                    |
| 916 | (394) | SIGNED    | 4  | TCTARYT      | - Time (local) Element was READY, in hundredths of a second 0, if the element is not yet READY                                                                                                             |
| 920 | (398) |           | 1  | TCTARYD      | - Date Element was READY, in the following format: 0cyydddF (where 'F' is the sign) 0, if the element is not yet READY                                                                                     |
| 924 | (39C) | SIGNED    | 4  | TCTARTT      | - Time (local) Element was DEREGISTERED, in hundredths of a second 0, if the element is not yet DEREGISTERED or ended abnormally.                                                                          |
| 928 | (3A0) |           | 1  | TCTARTD      | - Date Element was DEREGISTERED, in the following format: 0cyydddF (where 'F' is the sign) 0, if the element is not yet DEREGISTERED or ended abnormally.                                                  |

## TCT Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| ETCTBCHN | 2D4        |           | TCTDDIND | 2A5        | 80        |
| ETCTDSAB | 2DC        |           | TCTDDLEN | 2B8        | 20        |
| ETCTFCHN | 2D0        |           | TCTDEF   | 138        | 4         |
| ETCTHDR  | 2C5        | 2C8       | TCTDET   | 228        |           |
| ETCTID   | 2C8        |           | TCTDUMMY | 130        | 40        |
| ETCTIOT  | 2C5        | 2C8       | TCTEBLK  | 120        |           |
| ETCTIUSE | 2D8        | 80        | TCTECPT  | 210        |           |
| ETCTNEXT | 2D8        |           | TCTECPTC | 224        |           |
| ETCTNTRY | 2D4        | 2D8       | TCTECPU  | 218        |           |
| ETCTSTIO | 2E0        |           | TCTEFAVL | 124        |           |
| ETCTVER  | 2CF        |           | TCTEFLGS | 130        |           |
| SMFTCT   | 0          |           | TCTEHPT  | F8         |           |
| TCTACT   | 44         |           | TCTEHWMM | 268        |           |
| TCTACTRT | 3          | 2         | TCTEIIP  | DC         |           |
| TCTADMFR | F4         |           | TCTEINFO | 114        |           |
| TCTADMFW | F0         |           | TCTEJST  | 6C         |           |
| TCTAID   | 34C        |           | TCTELAVL | 128        |           |
| TCTAJS   | 40         |           | TCTELEN  | 11E        |           |
| TCTALN   | 351        |           | TCTELWM  | 26C        |           |
| TCTANSC  | 134        |           | TCTENAVL | 12C        |           |
| TCTARGD  | 388        |           | TCTEND   | 254        | 258       |
| TCTARGT  | 384        |           | TCTENF   | 138        | 8         |
| TCTARM   | 348        | 34C       | TCTERCT  | E0         |           |
| TCTARMD  | 354        |           | TCTERGNB | 274        |           |
| TCTARMP  | 1FC        |           | TCTESUBP | 11C        |           |
| TCTARNM  | 354        |           | TCTETC   | 21C        |           |
| TCTARRG  | 36C        |           | TCTETIM  | 214        |           |
| TCTARSN  | 37C        |           | TCTEVFAT | 100        |           |
| TCTARTD  | 3A0        |           | TCTEVFUT | FC         |           |
| TCTARTP  | 364        |           | TCTEXP   | 3          |           |
| TCTARTT  | 39C        |           | TCTEXRLD | 2C4        |           |
| TCTARWD  | 390        |           | TCTE39PP | E8         |           |
| TCTARWT  | 38C        |           | TCTFETIO | 114        |           |
| TCTARYD  | 398        |           | TCTFLAGS | 13A        |           |
| TCTARYT  | 394        |           | TCTFLGS  | 2A5        |           |
| TCTASF   | 138        | 10        | TCTHPF   | 138        | 40        |
| TCTASP   | 350        |           | TCTHWM   | 25C        |           |
| TCTASPLN | 350        |           | TCTIABD  | 3          | 8         |
| TCTASST  | 20C        |           | TCTIAF   | 138        | 1         |
| TCTASSTC | 220        |           | TCTICF   | 138        | 4         |
| TCTAST   | 38         |           | TCTIEX   | 3          | 40        |
| TCTATR   | 48         |           | TCTIIF   | 138        | 80        |
| TCTBIG   | 289        | 28C       | TCTINTDT | 110        |           |
| TCTBLKSZ | 2A6        |           | TCTINTST | 10C        |           |
| TCTCBSZ  | 2A6        | 80        | TCTIOCS  | 2C         |           |
| TCTCOMIO | 290        | 8         | TCTIODSP | 290        | 294       |
| TCTCOMP  | 130        | 80        | TCTIOSAV | B0         |           |
| TCTCOMZ  | 254        | 258       | TCTIOTBL | C          |           |
| TCTCONN  | 2B0        |           | TCTIOTSD | 298        |           |
| TCTCONNS | 2B4        |           | TCTISF   | 138        | 8         |
| TCTCORE  | 258        |           | TCTISK30 | 3          | 20        |
| TCTCPUS  | 20         |           | TCTISK32 | 3          | 10        |
| TCTCREZ  | 289        | 34        | TCTISRB  | 88         |           |
| TCTCRTBL | 8          |           | TCTISS   | 1A0        |           |
| TCTCSF   | 138        | 40        | TCTITCB  | 84         |           |
| TCTCTF   | 138        | 80        | TCTIVF   | 138        | 2         |
| TCTDCBLE | 29C        |           | TCTIVFAT | 108        |           |
| TCTDCBTD | 294        |           | TCTIVFUT | 104        |           |
| TCTDCOPN | 3          | 1         | TCTJMR   | 1C         |           |
| TCTDCTI  | B4         |           | TCTJSTI  | 3          | 80        |
| TCTDCTR  | 2A8        |           | TCTJSTX  | 24         |           |
| TCTDCTRS | 2AC        |           | TCTLCTAD | 98         |           |
| TCTDDENT | 29C        | 2A0       | TCTLETIO | 118        |           |

## TCT Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| TCTLIN   | 30         |           | TCTRSV00 | 262        |           |
| TCTLINSV | 78         |           | TCTRSV01 | 27C        |           |
| TCTLOUT  | 34         |           | TCTRSV02 | 289        |           |
| TCTLOUTS | 7C         |           | TCTRSV08 | 20         |           |
| TCTLRRCT | AC         |           | TCTRSV10 | 2C0        |           |
| TCTLWM   | 258        |           | TCTRSV22 | 2A5        | 10        |
| TCTMEM   | 280        |           | TCTRSV23 | 2A5        | 8         |
| TCTMEMS  | 288        |           | TCTRSV24 | 2A5        | 4         |
| TCTMINC  | 260        |           | TCTRSV25 | 2A5        | 2         |
| TCTMSCT  | D8         |           | TCTRSV26 | 2A5        | 1         |
| TCTMSOFF | D8         | 80        | TCTRSZ   | 278        |           |
| TCTMSOS  | 4C         |           | TCTRTAPE | 60         |           |
| TCTNOCNT | 2A5        | 20        | TCTSACT  | 28         |           |
| TCTODR   | 308        |           | TCTSCTR  | 2A4        |           |
| TCTOFR   | 30C        |           | TCTSIN   | 4C         |           |
| TCTOFW   | 310        |           | TCTSNAME | C8         |           |
| TCTOGL   | 32C        |           | TCTSOUT  | 50         |           |
| TCTOGP   | 330        |           | TCTSRBS  | 50         |           |
| TCTOID   | 2E4        |           | TCTSRBT  | 70         |           |
| TCTOKR   | 338        |           | TCTSRMSP | 13B        |           |
| TCTOKW   | 33C        |           | TCTSTOF  | 24         |           |
| TCTOLL   | 324        |           | TCTSTPRN | 3          | 4         |
| TCTOLN   | 2E9        |           | TCTSUBNM | 184        |           |
| TCTOLP   | 328        |           | TCTSVTEP | 74         |           |
| TCTOMR   | 344        |           | TCTSW    | 3          |           |
| TCTOMS   | 340        |           | TCTSZE   | 12         |           |
| TCTOMVS  | 2E0        | 2E4       | TCTSZEXT | 28D        |           |
| TCTOMVSD | 2EC        |           | TCTSZLKP | 290        |           |
| TCTOMVSH | 2E4        |           | TCTTCB   | 4          |           |
| TCTOMVSP | 188        |           | TCTTCT   | D0         |           |
| TCTOPG   | 2F0        |           | TCTTCT2  | 13A        | 80        |
| TCTOPI   | 2EC        |           | TCTTIMER | B8         |           |
| TCTOPP   | 334        |           | TCTTIOT  | 289        | 28C       |
| TCTOPR   | 314        |           | TCTTJLM  | 28         |           |
| TCTOPW   | 318        |           | TCTTKRLD | 2C5        |           |
| TCTOSC   | 300        |           | TCTTMRFL | 138        |           |
| TCTOSI   | 2FC        |           | TCTTMRSP | BC         |           |
| TCTOSP   | 2E8        |           | TCTTPCNA | 168        |           |
| TCTOSPLN | 2E8        |           | TCTTPCON | 160        |           |
| TCTOSR   | 31C        |           | TCTTPDAR | 17C        |           |
| TCTOST   | 304        |           | TCTTPDAT | 170        |           |
| TCTOSW   | 320        |           | TCTTPDCT | 158        |           |
| TCTOSY   | 348        |           | TCTTPEXP | 154        |           |
| TCTOUG   | 2F8        |           | TCTTPNUM | 15C        |           |
| TCTOUI   | 2F4        |           | TCTTPREC | 178        |           |
| TCTPARMS | C0         |           | TCTTPSEN | 16C        |           |
| TCTPDASD | 54         |           | TCTTPSRB | 150        |           |
| TCTPGIN  | 40         |           | TCTTPTAC | 164        |           |
| TCTPGOUT | 44         |           | TCTTPTCB | 14C        |           |
| TCTPGSMF | 40         |           | TCTTPTYT | 148        |           |
| TCTPLEXT | 28C        |           | TCTTRAN  | 80         |           |
| TCTPMSS  | 64         |           | TCTT30AH | 200        |           |
| TCTPOOL  | 10         |           | TCTT30H  | 94         |           |
| TCTPPST  | 3C         |           | TCTT30J  | 8C         |           |
| TCTPRMSP | C4         |           | TCTT30JA | 208        |           |
| TCTPTAPE | 5C         |           | TCTT30JE | 198        |           |
| TCTQA    | 0          |           | TCTT30JP | 19C        |           |
| TCTRBA   | 264        |           | TCTT30JR | 250        |           |
| TCTRCF   | 138        | 20        | TCTT30PH | 18C        |           |
| TCTRDASD | 58         |           | TCTT30S  | 90         |           |
| TCTRGNB  | 270        |           | TCTT30SA | 204        |           |
| TCTRGNS  | 48         |           | TCTT30SE | 190        |           |
| TCTRMSS  | 68         |           | TCTT30SP | 194        |           |
| TCTRQSV  | E4         |           | TCTT30SR | 24C        |           |
| TCTRSMGT | 1E4        |           | TCTT30UH | 1F0        |           |

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| TCTT30UJ | 1F8        |           |
| TCTT30US | 1F4        |           |
| TCTT32J  | 9C         |           |
| TCTT32S  | A0         |           |
| TCTT33J  | 140        |           |
| TCTT33S  | 144        |           |
| TCTT33SP | 13C        |           |
| TCTUACA  | 1D0        |           |
| TCTUACL  | 1CC        |           |
| TCTUCBP  | 2A0        |           |
| TCTUDATA | 18         |           |
| TCTUFCA  | 1E0        |           |
| TCTUFCAC | 1DC        |           |
| TCTUTCA  | 1D8        |           |
| TCTUTCAC | 1D4        |           |
| TCTUTIMR | 1E8        |           |
| TCTUTL   | 14         |           |
| TCTUTPRM | 1EC        |           |
| TCTVAF   | 138        | 10        |
| TCTVAMDS | 2A5        | 40        |
| TCTVUF   | 138        | 20        |
| TCTWLMT  | 2C         |           |
| TCTXBLKS | 2B8        |           |
| TCTXR0DC | EC         |           |
| TCT30AIC | 22C        |           |
| TCT30AID | 230        |           |
| TCT30AIS | 238        |           |
| TCT30AIW | 234        |           |
| TCT30ATR | 1C8        |           |
| TCT30CN  | 1A8        |           |
| TCT30CNA | 1AC        |           |
| TCT30DAR | 1C0        |           |
| TCT30DAT | 1B4        |           |
| TCT30EIC | 23C        |           |
| TCT30EID | 240        |           |
| TCT30EIS | 248        |           |
| TCT30EIW | 244        |           |
| TCT30REC | 1BC        |           |
| TCT30SEN | 1B0        |           |
| TCT32BLK | A8         |           |
| TCT32SP  | A4         |           |





## TDCM Heading Information

**Common Name:** PAGEABLE DISPLAY CONTROL MODULE MAPPING MACRO  
**Macro ID:** IEETDCM  
**DSECT Name:** DCMSTRT, DCMSCCTA, DCMSCCTC, DCMORDER  
**Owning Component:** DIDOCS (SC1C4)  
**Eye-Catcher ID:** TDCM  
 Offset: 0  
 Length: 4  
**Storage Attributes:** Subpool: 229  
 Key: 0  
**Size:** Base section: X'5D8' bytes  
 SIB section: ((10+# cols) \* # rows) \* 2  
 DOM ids section: 18 bytes per row  
 SCT section: 4 bytes per row  
 SSCT section: 2 bytes per row  
 Query Response: 344 bytes  
 Adjunct Orders: 22 bytes per row  
 MCT section: 4 bytes per row  
 MCS/SMCS Input : 264 bytes  
 BLENT Area: 304 bytes for screen sizes under  
 46x80. 320 bytes for screen  
 sizes 46x80 to 91x80. Max of  
 560 bytes for screen size of  
 255x255.  
**Created by:** IEECVFTW  
**Pointed to by:** DCMADTRN IN RDCM  
**Serialization:** LOCAL AND CMS LOCKS  
**Function:** THIS MACRO MAPS THE PAGEABLE DISPLAY  
 CONTROL MODULE (TDCM).

### TDCM Map

| Offsets |      |            |      |            |                                  |
|---------|------|------------|------|------------|----------------------------------|
| Dec     | Hex  | Type/Value | Len  | Name (Dim) | Description                      |
| 0       | (0)  | STRUCTURE  | 1496 | DCMSTRT    |                                  |
| 0       | (0)  | CHARACTER  | 4    | DCMOACRO   | CNTL BLK ACRONYM 'TDCM'          |
| 4       | (4)  | CHARACTER  | 1    | DCMFLG1    | TDCM AREA INDICATORS             |
|         |      | 1... ....  |      | *          | RESERVED                         |
|         |      | .1.. ....  |      | *          | RESERVED                         |
|         |      | ..1. ....  |      | *          | RESERVED                         |
|         |      | ...1 ....  |      | *          | RESERVED                         |
|         |      | .... 1..   |      | *          | RESERVED                         |
|         |      | .... .1..  |      | *          | RESERVED                         |
|         |      | .... ..1.  |      | DCMOUTPT   | TDCM UPDATED FOR OUTPUT ONLY     |
|         |      | .... ...1  |      | *          | RESERVED                         |
| 5       | (5)  | CHARACTER  | 1    | DCMATI     | SAVED UCB ATTN INDEX             |
| 6       | (6)  | CHARACTER  | 2    | *          | RESERVED                         |
| 8       | (8)  | ADDRESS    | 4    | DCMWTINT   | DCMWTINT INITIAL VALUE           |
| 12      | (C)  | SIGNED     | 2    | DCMLNCNT   | NUMBER OF LINES TO BLANK         |
| 14      | (E)  | CHARACTER  | 1    | DCMLNNUM   | FIRST LINE TO BLANK              |
| 15      | (F)  | UNSIGNED   | 1    | DCMGFLG    | HOLDMODE INDICATORS              |
|         |      | 1... ....  |      | DCMHOLD    | CONSOLE IS IN HOLDMODE           |
|         |      | .1.. ....  |      | DCMMWISS   | MESSAGE IEE159I HAS BEEN ISSUED  |
|         |      | ..11 1111  |      | *          | RESERVED                         |
| 16      | (10) | SIGNED     | 4    | DCMPACK    | AREA TO PLACE NUMBER FOR PACKING |
| 20      | (14) | SIGNED     | 4    | DCMCVBIN   | AREA FOR CONVERSION TO BINARY    |

# TDCM Map

## Offsets

| Dec                                                                                                 | Hex  | Type/Value | Len | Name (Dim)  | Description                      |
|-----------------------------------------------------------------------------------------------------|------|------------|-----|-------------|----------------------------------|
| Comment                                                                                             |      |            |     |             |                                  |
| TIMER COMMUNICATION FIELD                                                                           |      |            |     |             |                                  |
| End of Comment                                                                                      |      |            |     |             |                                  |
| 24                                                                                                  | (18) | CHARACTER  | 1   | DCMTIMES    | TIME RTNS INDICATOR BYTE         |
|                                                                                                     |      | 1... ....  |     | DCMTIMER    | TIME ELAPSED FOR THIS DISPLAY    |
|                                                                                                     |      | .1.. ....  |     | DCMOPTTI    | OPTIONS TO TI RTN                |
|                                                                                                     |      | ..1. ....  |     | *           | RESERVED                         |
|                                                                                                     |      | ...1 ....  |     | DCMOTTMM    | OPTIONS OR TI RTNS TO MSG MODULE |
|                                                                                                     |      | .... 1..   |     | *           | RESERVED                         |
|                                                                                                     |      | .... .1..  |     | DCMTASYN    | TIMER SET FOR ASYNC ERROR MSG    |
|                                                                                                     |      | .... ..1.  |     | DCMOCTTI    | OPEN-CLOSE TO TI RTN             |
|                                                                                                     |      | .... ...1  |     | DCMRMTTI    | ROLL MODE TO TIMER ROUTINE       |
| Comment                                                                                             |      |            |     |             |                                  |
| CONTROL BLOCK VERSION IDENTIFICATION                                                                |      |            |     |             |                                  |
| End of Comment                                                                                      |      |            |     |             |                                  |
| 25                                                                                                  | (19) | UNSIGNED   | 1   | DCMTVERN    | CONTROL BLOCK VERSION            |
| 26                                                                                                  | (1A) | SIGNED     | 2   | *           | RESERVED                         |
| Comment                                                                                             |      |            |     |             |                                  |
| ADDRESS TABLE                                                                                       |      |            |     |             |                                  |
| End of Comment                                                                                      |      |            |     |             |                                  |
| 28                                                                                                  | (1C) | ADDRESS    | 4   | *           | RESERVED                         |
| 32                                                                                                  | (20) | ADDRESS    | 4   | DCMDOMP     | ADDRESS OF FIRST DOM NUMBER      |
| 36                                                                                                  | (24) | ADDRESS    | 4   | DCMAMTAB    | ADDRESS OF FIRST SCT ENTRY       |
| 40                                                                                                  | (28) | ADDRESS    | 4   | DCMADSEC    | ADDRESS OF FIRST SSCT ENTRY      |
| 44                                                                                                  | (2C) | ADDRESS    | 4   | DCMADDRL    | ADDRESS OF LAST SCT ENTRY        |
| 48                                                                                                  | (30) | ADDRESS    | 4   | DCMASC      | POINTER TO SCREEN IMAGE BUFFER   |
| 52                                                                                                  | (34) | ADDRESS    | 4   | DCMLSCRN    | POINTER TO LAST BUFFER LINE      |
| 56                                                                                                  | (38) | ADDRESS    | 4   | DCMWTBUF    | SCREEN LENGTH POINTER            |
| 60                                                                                                  | (3C) | ADDRESS    | 4   | DCMAINS     | POINTER TO INSTRUCTION LINE      |
| 64                                                                                                  | (40) | ADDRESS    | 4   | DCMAENTR    | POINTER TO ENTRY AREA            |
| 68                                                                                                  | (44) | ADDRESS    | 4   | DCMAWARN    | POINTER TO WARNING LINE          |
| 72                                                                                                  | (48) | ADDRESS    | 4   | DCMADCHP    | ADDRESS OF CHANNEL PROGRAM AREA  |
| 76                                                                                                  | (4C) | ADDRESS    | 4   | DCMPFKLN    | POINTER TO PFK LINE              |
| 80                                                                                                  | (50) | SIGNED     | 4   | DCMCXSVE    | CXSA SAVE AREA                   |
| 84                                                                                                  | (54) | ADDRESS    | 4   | DCMADOPN    | ADDRESS OF COMMAND OPERAND       |
| 88                                                                                                  | (58) | SIGNED     | 4   | DCMDSAV (5) | SAVE AND WORK AREA               |
| Comment                                                                                             |      |            |     |             |                                  |
| INPUT BUFFER FOR ISSUING SVC 34 AND SVC 35<br>FIELDS DCMWQEXP THROUGH DCMINPUT MUST REMAIN IN ORDER |      |            |     |             |                                  |
| End of Comment                                                                                      |      |            |     |             |                                  |
| 108                                                                                                 | (6C) | SIGNED     | 4   | DCMWQEXP    | ENSURE FULL WORD BOUNDARY        |
| 108                                                                                                 | (6C) | SIGNED     | 2   | DCMINLGN    | FIELD FOR INPUT LENGTH           |
| 110                                                                                                 | (6E) | SIGNED     | 2   | DCMMCSFL    | MCS FLAGS FIELD                  |
| 112                                                                                                 | (70) | CHARACTER  | 128 | DCMINPUT    | INPUT MESSAGE TEXT               |
| Comment                                                                                             |      |            |     |             |                                  |
| GENERAL LENGTH VALUES                                                                               |      |            |     |             |                                  |
| End of Comment                                                                                      |      |            |     |             |                                  |
| 240                                                                                                 | (F0) | SIGNED     | 2   | DCMLGNTH    | LENGTH OF A LINE                 |
| 242                                                                                                 | (F2) | SIGNED     | 2   | DCMBAINC    | ADDRESS TO INSERT CURSOR         |

Offsets

| Dec | Hex   | Type/Value | Len | Name (Dim) | Description                     |
|-----|-------|------------|-----|------------|---------------------------------|
| 244 | (F4)  | SIGNED     | 2   | DCMSSCTL   | LENGTH OF ONE SSCT ENTRY        |
| 246 | (F6)  | SIGNED     | 2   | DCMBADLN   | BUFFER ADDR TO BEGIN MSG WRITE  |
| 248 | (F8)  | SIGNED     | 2   | DCMBYTCT   | NUMBER OF BYTES TO WRITE        |
| 250 | (FA)  | SIGNED     | 2   | DCMADNUM   | NEXT LINE NUMBER                |
| 252 | (FC)  | SIGNED     | 2   | DCMAXLGN   | MAXIMUM LINE LENGTH             |
| 254 | (FE)  | SIGNED     | 2   | DCMMSGAL   | NUMBER OF LINES IN MESSAGE AREA |
| 256 | (100) | SIGNED     | 2   | DCMRMINC   | INCREMENT INTO RMI              |
| 258 | (102) | SIGNED     | 2   | DCMSCTCN   | LENGTH OF ONE SCT ENTRY         |
| 260 | (104) | SIGNED     | 2   | DCMCORLN   | LENGTH OF TDCM LINE IN CORE     |
| 262 | (106) | SIGNED     | 2   | *          | TIME COUNTER                    |
| 264 | (108) | CHARACTER  | 1   | DCMPFKNM   | NUMBER OF KEY BEING PROCESSED   |
| 265 | (109) | CHARACTER  | 1   | DCMPFKKN   | LIST KEY NUMBER                 |

Comment

VALUES FOR OPTIONS

End of Comment

|     |       |           |   |         |                                      |
|-----|-------|-----------|---|---------|--------------------------------------|
| 266 | (10A) | CHARACTER | 2 | DCMDEL  | DEL VALUE                            |
| 268 | (10C) | CHARACTER | 1 | DCMCON  | CON VALUE                            |
| 269 | (10D) | ADDRESS   | 1 | DCMSEG  | SEG VALUE                            |
| 270 | (10E) | ADDRESS   | 1 | DCMDL   | DISPLAY AREA OPTION                  |
| 271 | (10F) | ADDRESS   | 1 | DCMRNUM | ROLL NUMBER VALUE                    |
| 272 | (110) | SIGNED    | 2 | DCMRMTE | ROLL TIME VALUE IN TENTHS OF SECONDS |

Comment

DEFAULT VALUES FOR OPTIONS

End of Comment

|     |       |         |   |          |                                   |
|-----|-------|---------|---|----------|-----------------------------------|
| 274 | (112) | ADDRESS | 1 | DCMSEGDF | SEG DEFAULT                       |
| 275 | (113) | ADDRESS | 1 | DCMRNUMD | RNUM DEFAULT                      |
| 276 | (114) | SIGNED  | 2 | DCMRMTE  | RTME DEFAULT IN TENTHS OF SECONDS |

Comment

MCT TABLE CONSTANTS

End of Comment

|     |       |           |   |          |                         |
|-----|-------|-----------|---|----------|-------------------------|
| 278 | (116) | SIGNED    | 2 | DCMMCTCN | LENGTH OF ONE MCT ENTRY |
| 280 | (118) | CHARACTER | 3 | *        | RESERVED                |

Comment

COMMUNICATIONS AREAS

End of Comment

|           |                |                                     |   |          |                                     |
|-----------|----------------|-------------------------------------|---|----------|-------------------------------------|
| 283       | (11B)          | CHARACTER                           | 1 | DCMOPTST | STATUS OF SCREEN CONTROL OPTIONS    |
|           |                | 1... ..                             |   | DCMOPTVR | DELETE VERIFICATION CON=(Y=1,N=0)   |
|           |                | ..1. ....                           |   | DCMOPTAD | AUTOMATIC DELETION DEL=(Y=1,N=0)    |
|           |                | ..1. ....                           |   | DCMOPTSG | DEFAULT SEGMENT SPECIFIED SEG=(0=0) |
|           |                | ...1 ....                           |   | DCMOPRL  | Roll/Wrap mode? (Y=1, N=0)          |
|           |                | .... 1..                            |   | *        | RESERVED                            |
|           |                | .... .1..                           |   | *        | RESERVED                            |
|           |                | .... ..1.                           |   | *        | RESERVED                            |
|           |                | .... ...1                           |   | *        | RESERVED                            |
|           |                | 284                                 |   | (11C)    | CHARACTER                           |
| 1... ..   | DCMCSC         | CLOSE REQUEST                       |   |          |                                     |
| ..1. .... | DCMCSC         | OPEN REQUEST                        |   |          |                                     |
| ..1. .... | DCMISRPQ       | ISSUE READ PARTITION QUERY          |   |          |                                     |
| ...1 .... | DCMRDRPQ       | READ RESULT OF READ PARTITION QUERY |   |          |                                     |
| .... 1..  | DCMRETIO       | RETURN TO I/O ROUTINE               |   |          |                                     |
| .... .1.. | DCMSWAPT       | TDCM SWAP IS NEEDED                 |   |          |                                     |
| .... ..1. | DCM_REISSUE_IO |                                     |   |          |                                     |

# TDCM Map

| Offsets |       |            |     |                           |                                                               |
|---------|-------|------------|-----|---------------------------|---------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim)                | Description                                                   |
|         |       | .... ...1  |     | DCM_BUFFER_2_ENTRY_NEEDED | I/O JUST ISSUED IS TO be re-issued                            |
| 285     | (11D) | CHARACTER  | 1   | DCMUTILT                  | Data needs to be copied from the input area to the entry area |
|         |       | 1... ....  |     | DCMUTILA                  | INTERNAL FLAGS                                                |
|         |       | .1... .... |     | DCMUTILB                  | THESE BITS ARE                                                |
|         |       | ..1. ....  |     | DCMUTILC                  | INITIALIZED AND USED                                          |
|         |       | ...1 ....  |     | DCMUTILD                  | SOLELY WITHIN                                                 |
|         |       | .... 1...  |     | DCMUTILE                  | EACH MODULE                                                   |
|         |       | .... .1..  |     | DCMUTILF                  | THEY ARE NEVER                                                |
|         |       | .... ..1.  |     | DCMTEST1                  | USED FOR INTERFACE                                            |
|         |       | .... ...1  |     | DCMTEST2                  | FOR TESTING                                                   |
| 286     | (11E) | CHARACTER  | 1   | DCMDSTAT                  | FOR TESTING                                                   |
|         |       | 1... ....  |     | *                         | CURRENT DISPLAY STATUS                                        |
|         |       | .1... .... |     | *                         | RESERVED                                                      |
|         |       | ..1. ....  |     | DCMDSTNM                  | RESERVED                                                      |
|         |       | ...1 ....  |     | DCMDSTNH                  | MESSAGES ARE NUMBERED                                         |
|         |       | .... 1...  |     | *                         | MSGs NUMBERED - HOLD OPTION                                   |
|         |       | .... .1..  |     | DCMDSAUT                  | RESERVED - WAS DCMD SINR                                      |
|         |       | .... ..1.  |     | *                         | AUTOMATIC DELETION TRIED                                      |
|         |       | .... ...1  |     | *                         | RESERVED                                                      |

Comment

MCS INTERFACE FIELD

End of Comment

|     |       |            |   |          |                      |
|-----|-------|------------|---|----------|----------------------|
| 287 | (11F) | CHARACTER  | 1 | DCMMCSST | MCS INTERFACE BYTE   |
|     |       | 1... ....  |   | DCMDUSE  | DIDOCs IN CONTROL    |
|     |       | .1... .... |   | *        | RESERVED             |
|     |       | ..1. ....  |   | *        | RESERVED             |
|     |       | ...1 ....  |   | *        | RESERVED             |
|     |       | .... 1...  |   | *        | RESERVED             |
|     |       | .... .1..  |   | DCMOOMSS | MESSAGE STREAM ENTRY |
|     |       | .... ..1.  |   | *        | RESERVED             |
|     |       | .... ...1  |   | DCMOOSDS | STATUS DISPLAY ENTRY |

Comment

UNIQUE INTERFACE FIELD

End of Comment

|     |       |            |   |          |                                         |
|-----|-------|------------|---|----------|-----------------------------------------|
| 288 | (120) | CHARACTER  | 1 | DCMIOUNQ | UNIQUE IO BYTE                          |
|     |       | 1... ....  |   | *        | RESERVED WAS DCMIO226                   |
|     |       | .1... .... |   | *        | RESERVED                                |
|     |       | ..1. ....  |   | DCMFRSCN | PUT OUTPUT IN HOLD MODE                 |
|     |       | ...1 ....  |   | DCMRDARM | PERFORM READ AFTER RMI                  |
|     |       | .... 1...  |   | DCMW2250 | DEVICE HAS LIGHT PEN                    |
|     |       | .... .1..  |   | DCMINNOR | NORMAL INSTRUCTION LINE                 |
|     |       | .... ..1.  |   | DCMINERR | ERROR INSTRUCTION LINE                  |
|     |       | .... ...1  |   | DCMEWASP | ERASE/WRITE ALTERNATE COMMAND SUPPORTED |

Comment

I/O COMMUNICATION FIELDS

End of Comment

|     |       |            |   |          |                            |
|-----|-------|------------|---|----------|----------------------------|
| 289 | (121) | CHARACTER  | 1 | DCMIOCM1 | IO COMMUNICATIONS BYTE 1   |
|     |       | 1... ....  |   | DCMDORMI | ISSUE RMI                  |
|     |       | .1... .... |   | DCMSOUND | SOUND ALARM                |
|     |       | ..1. ....  |   | DCMWRWRN | WRITE WARNING LINE         |
|     |       | ...1 ....  |   | DCMWRMSG | WRITE FULL MESSAGE AREA    |
|     |       | .... 1...  |   | DCMWRPAR | WRITE PARTIAL MESSAGE AREA |
|     |       | .... .1..  |   | DCMWRINS | WRITE INSTRUCTION LINE     |

| Offsets |       |            |     |                |                                      |
|---------|-------|------------|-----|----------------|--------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim)     | Description                          |
| 290     | (122) | .... ..1.  | 1   | DCMWRENT       | WRITE ENTRY AREA                     |
|         |       | .... ...1  |     | DCMINSC        | INSERT CURSOR                        |
|         |       | CHARACTER  |     | DCMIOCM2       | IO COMMUNICATIONS BYTE 2             |
|         |       | 1... ....  |     | DCMBLENT       | BLANK ENTRY AREA                     |
|         |       | .1.. ....  |     | DCMBLWRL       | BLANK LEFT HALF WARNING LINE         |
|         |       | ..1. ....  |     | DCMBLWRR       | BLANK RIGHT HALF WARNING LINE        |
|         |       | ...1 ....  |     | DCMINSSH       | INIT AND SHIFT INSTRUCTION LINE      |
|         |       | .... 1..   |     | DCMOOL_WRITE   | Write Out-Of_Line Display            |
|         |       | .... .1..  |     | DCMERASE       | PERFORM ERASE                        |
|         |       | .... ..1.  |     | DCMIOCRD       | PERFORM READ                         |
| 291     | (123) | .... ...1  | 1   | DCMWRASY       | WRITE ASYNC ERROR MSG TO MID-SCREEN  |
|         |       | CHARACTER  |     | DCMIOCM3       | IO COMMUNICATIONS BYTE 3             |
|         |       | 1... ....  |     | DCMOOL_REFRESH | Refresh the OOL displays             |
|         |       | .1.. ....  |     | *              | Reserved. Was DCMSSRG                |
|         |       | ..1. ....  |     | DCMEWAND       | ERASE/WRITE ALTERNATE COMMAND NEEDED |
|         |       | ...1 ....  |     | DCMWRPFK       | TDCM WRITE PFK AREA                  |
|         |       | .... 1..   |     | DCMPFKAT       | PFK ATTENTION                        |
|         |       | .... .1..  |     | DCMRDPFK       | PFK AREA READ                        |
|         |       | .... ..1.  |     | DCMCQUED       | MULTIPLE COMMANDS QUEUED             |
|         |       | .... ...1  |     | DCMKPROC       | PFK being proccessed                 |
| 292     | (124) | CHARACTER  | 1   | DCMLINEN       | LINE NUMBER TO BEGIN WRITE           |
| 293     | (125) | CHARACTER  | 1   | DCMCULNO       | LINE IN ENTRY AREA TO INSERT CURSOR  |
| 294     | (126) | CHARACTER  | 1   | DCMPOSCU       | POSITION TO INSERT CURSOR            |

Comment

#### ASYNCHRONOUS ERROR COMMUNICATIONS FIELD

End of Comment

|     |       |           |   |          |                                       |
|-----|-------|-----------|---|----------|---------------------------------------|
| 295 | (127) | CHARACTER | 1 | DCMASYNC | ASYN ERROR COMMUNICATIONS/RETRY BYTE  |
|     |       | 1... .... |   | *        | RESERVED                              |
|     |       | .1.. .... |   | DCMASDA  | DATA CHECK RETRY BIT                  |
|     |       | ..1. .... |   | DCMASIN  | INVALID BUFFER ADDR CHECK RETRY BIT   |
|     |       | ...1 .... |   | DCMASBA  | BUFFER ADDR PARITY CHECK RETRY BIT    |
|     |       | .... 1..  |   | DCMASEWA | PERMANENT ERROR ON EWA DEVICE RETRIED |
|     |       | .... .1.. |   | *        | RESERVED                              |
|     |       | .... ..1. |   | *        | RESERVED                              |
|     |       | .... ...1 |   | *        | RESERVED                              |

Comment

#### COMMUNICATION FIELDS

End of Comment

|           |          |           |                                       |          |                                    |
|-----------|----------|-----------|---------------------------------------|----------|------------------------------------|
| 296       | (128)    | CHARACTER | 1                                     | DCMCOM1  | COMMUNICATIONS BYTE                |
|           |          | 1... .... |                                       | DCMLPENT | ENTER BY LP OR CURSOR              |
|           |          | .1.. .... |                                       | DCMIOPRD | READ PERFORMED                     |
|           |          | ..1. .... |                                       | DCMCOMRM | RMI PERFORMED                      |
|           |          | ...1 .... |                                       | DCMCOMAU | PERFORM AUTO DELETE                |
|           |          | .... 1..  |                                       | DCMCOMRD | PERFORM REGULAR DELETE             |
|           |          | .... .1.. |                                       | DCMCOMNM | NUMBER MESSAGES                    |
|           |          | .... ..1. |                                       | DCMCLEAR | CLEAR KEY WAS PRESSED              |
|           |          | .... ...1 |                                       | DCMCANCL | INDICATE CANCEL TO COMMAND ROUTINE |
|           |          | 297       |                                       | (129)    | CHARACTER                          |
| 1... .... | DCMCM2I  |           | INPUT TO BE PROCESSED                 |          |                                    |
| .1.. .... | DCMSPLIT |           | MSG TO BE SPLIT                       |          |                                    |
| ..1. .... | DCMCOMAR |           | ACCEPTED REPLY                        |          |                                    |
| ...1 .... | DCMREPLC |           | REPEAT LAST COMMAND KEY (PA1) PRESSED |          |                                    |
| .... 1..  | DCMERPF  |           | ERASE PERF-PROC CAN NOW CLOSE DEVICE  |          |                                    |
| .... .1.. | *        |           | Reserved. Was DCMCMIN5                |          |                                    |
| .... ..1. | *        |           | Reserved. Was DCMCBLNK                |          |                                    |
| .... ...1 | DCMAE    |           | CLEANUP FOR ASY ERROR                 |          |                                    |
| 298       | (12A)    |           | CHARACTER                             |          | 1                                  |

# TDCM Map

| Offsets |     |            |     |            |                               |
|---------|-----|------------|-----|------------|-------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                   |
|         |     | 1... ....  |     | DCMCDSP3   | DISPLAY 3 COMPLETED WORK      |
|         |     | .1.. ....  |     | DCMRTPFK   | RETURN TO PFK ROUTINE         |
|         |     | ..1. ....  |     | DCMVLPFK   | VERIFYING LAST COMMAND        |
|         |     | ...1 ....  |     | DCMXINT1   | ENTRY FOR INTERFACE 1 ROUTINE |
|         |     | .... 1..   |     | DCMOLUNV   | O-O-L MSG CAUSED UNVIEW. MSG. |
|         |     | .... .1..  |     | *          | RESERVED                      |
|         |     | .... .1.   |     | DCMOLHLD   | OUT OF LINE MESSAGES HELD     |
|         |     | .... ...1  |     | *          | Reserved. Was DCMCMIN7        |

Comment

## MESSAGE MODULES COMMUNICATION FIELDS

End of Comment

|     |       |           |   |           |                                             |
|-----|-------|-----------|---|-----------|---------------------------------------------|
| 299 | (12B) | CHARACTER | 1 | DCMCMMSG1 | MSG MODULE COMMUNICATIONS BYTE 1            |
|     |       | 1... .... |   | DCMMSGWT  | MOVE IN MESSAGE WAITING                     |
|     |       | .1.. .... |   | DCMUNMSG  | MOVE IN UNVIEWABLE MESSAGE                  |
|     |       | ..1. .... |   | DCMSTEX   | MOVE IN STATUS EXISTS                       |
|     |       | ...1 .... |   | DCMCHOPT  | MOVE IN CHANGE OPTIONS                      |
|     |       | .... 1..  |   | DCMELONG  | MOVE IN ENTRY TOO LONG                      |
|     |       | .... .1.. |   | DCMWRCDL  | MOVE IN CON=N,DEL=Y                         |
|     |       | .... .1.  |   | DCMDELNT  | MOVE IN DEL UNCHANGED, NO TIMER             |
|     |       | .... ...1 |   | *         | RESERVED                                    |
| 300 | (12C) | CHARACTER | 1 | DCMCMMSG2 | MSG MODULE COMMUNICATIONS BYTE 2            |
|     |       | 1... .... |   | DCMDLREQ  | MOVE IN DELETION REQUESTED                  |
|     |       | .1.. .... |   | DCMRQINC  | MOVE IN REQUEST INCONSISTENT                |
|     |       | ..1. .... |   | DCMMSGCR  | MOVE IN INVALID CURSOR OPERATION            |
|     |       | ...1 .... |   | DCMINVOP  | MOVE IN INVALID OPERAND                     |
|     |       | .... 1..  |   | DCMCILLP  | MOVE IN ILLEGAL LP OPERATION                |
|     |       | .... .1.. |   | DCMDELRI  | MOVE IN DELETE REQUEST INCONSISTENT         |
|     |       | .... .1.  |   | DCMASYRT  | MOVE IN ASYN ERROR RETRYABLE                |
|     |       | .... ...1 |   | DCMASYCD  | MOVE IN ASYN ERROR MAYBE RETRYABLE          |
| 301 | (12D) | CHARACTER | 1 | DCMCMMSG3 | MSG MODULE COMMUNICATIONS BYTE 3            |
|     |       | 1... .... |   | DCMCMRLL  | MOVE IN ROLL MODE MESSAGE                   |
|     |       | .1.. .... |   | DCMCDLR1  | NO DELETABLE MESSAGES                       |
|     |       | ..1. .... |   | DCMCDLR2  | INVALID RANGE                               |
|     |       | ...1 .... |   | DCMCDLR3  | SEG EQU TO ZERO                             |
|     |       | .... 1..  |   | DCMCDLR4  | DISPLAY NOT ON SCREEN                       |
|     |       | .... .1.. |   | DCMCDLR5  | INVALID OPERAND                             |
|     |       | .... .1.  |   | *         | RESERVED                                    |
|     |       | .... ...1 |   | DCMDTBSY  | COMMAND REJECTED - TASK BUSY                |
| 302 | (12E) | CHARACTER | 1 | DCMCMMSG4 | MSG MODULE COMMUNICATIONS BYTE 4            |
|     |       | 1... .... |   | DCMPFKNA  | MOVE IN PFK NOT ALLOCATED FOR               |
|     |       | .1.. .... |   | DCMPFKND  | MOVE IN PFK NOT DEFINED                     |
|     |       | ..1. .... |   | DCMPFKNO  | MOVE IN NO PFK ALLOCATION                   |
|     |       | ...1 .... |   | DCMPFKIP  | MOVE IN PFK IN PROCESS                      |
|     |       | .... 1..  |   | DCMNPFKT  | MOVE IN NO PFK TABLES                       |
|     |       | .... .1.. |   | DCMTABND  | MOVE IN PFK TABLE NOT DEFINED               |
|     |       | .... .1.  |   | DCMKRPIP  | MOVE IN K REQUEST INCONSISTENT - PFK IN USE |
|     |       | .... ...1 |   | *         | RESERVED                                    |

Comment

## SVC 34 COMMUNICATIONS FIELD

End of Comment

|     |       |           |   |          |                                    |
|-----|-------|-----------|---|----------|------------------------------------|
| 303 | (12F) | CHARACTER | 1 | DCMSVC34 | SVC 34 COMMUNICATION BYTE          |
|     |       | 1... .... |   | DCMMYCMD | COMMAND TO BE HANDLED BY THIS CONS |
|     |       | .1.. .... |   | DCMINVLD | INVALID K COMMAND                  |
|     |       | ..1. .... |   | DCMTYPE1 | K COMMAND IS NOT ROUTABLE          |
|     |       | ...1 .... |   | *        | RESERVED                           |
|     |       | .... 1..  |   | *        | RESERVED                           |
|     |       | .... .1.. |   | *        | RESERVED                           |
|     |       | .... .1.  |   | *        | RESERVED                           |

Offsets

| Dec | Hex   | Type/Value                                       | Len | Name (Dim) | Description                                                          |
|-----|-------|--------------------------------------------------|-----|------------|----------------------------------------------------------------------|
| 304 | (130) | CHARACTER<br>.... ...1<br>1... ....<br>.111 1111 | 1   | DCMCOM4    | RESERVED<br>COMMUNICATION BYTE<br>Reserved. Was DCMCNTRL<br>RESERVED |

Comment

INDEX FOR I/O ROUTINE

End of Comment

|     |       |           |   |         |                                                                                                                                    |
|-----|-------|-----------|---|---------|------------------------------------------------------------------------------------------------------------------------------------|
| 305 | (131) | CHARACTER | 1 | DCMIOND | INDEX FOR SELECTING THE APPROPRIATE IO ROUTINE<br>X'04'=RESERVED X'08'=RESERVED X'0C'=RESERVED<br>X'10'=3270-TYPE-DEVICE, IECCVETU |
| 306 | (132) | SIGNED    | 2 | DCMTEST | RESERVED FOR TESTING                                                                                                               |

Comment

MODULE ADDRESSES

End of Comment

|     |       |           |     |           |                                             |
|-----|-------|-----------|-----|-----------|---------------------------------------------|
| 308 | (134) | CHARACTER | 120 | DCMADMOD  | STRUCTURE OF MODULE ADDRESSES               |
| 308 | (134) | ADDRESS   | 4   | DCMIORTN  | IECCVETU - APPROPRIATE I/O ROUTINE          |
| 312 | (138) | CHARACTER | 116 | DCMNMDS   | MODULE ADDRESS                              |
| 312 | (138) | ADDRESS   | 4   | *         | RESERVED                                    |
| 316 | (13C) | ADDRESS   | 4   | DCMNPORC  | IECCVET1 - PROCESSOR ROUTINE LOAD ONE       |
| 320 | (140) | ADDRESS   | 4   | DCMNDSP1  | IECCVET2 - DISPLAY ROUTINE 1                |
| 324 | (144) | ADDRESS   | 4   | DCMNDSP2  | IECCVET3 - DISPLAY ROUTINE 2                |
| 328 | (148) | ADDRESS   | 4   | DCMNDSP3  | IECCVET4 - DISPLAY ROUTINE 3                |
| 332 | (14C) | ADDRESS   | 4   | DCMNCMD1  | IECCVET5 - COMMAND ROUTINE 1                |
| 336 | (150) | ADDRESS   | 4   | DCMNDL1   | IECCVET6 - DELETE ROUTINE 1                 |
| 340 | (154) | ADDRESS   | 4   | DCMNDL2   | IECCVET7 - DELETE ROUTINE 2                 |
| 344 | (158) | ADDRESS   | 4   | DCMNDL3   | IECCVET8 - DELETE ROUTINE 3                 |
| 348 | (15C) | ADDRESS   | 4   | DCMNDL4   | IECCVET9 - DELETE ROUTINE 4                 |
| 352 | (160) | ADDRESS   | 4   | DCMNOPT1  | IECCVETA - OPTIONS ROUTINE 1                |
| 356 | (164) | ADDRESS   | 4   | DCMNPFK1  | IECCVFTA - PFK ROUTINE 1                    |
| 360 | (168) | ADDRESS   | 4   | DCMNPFK2  | IECCVFTB - PFK ROUTINE 2                    |
| 364 | (16C) | ADDRESS   | 4   | DCMNERRO  | IECCVETC - ASYNCHRONOUS ERROR ROUTINE       |
| 368 | (170) | ADDRESS   | 4   | DCMNMMSG1 | IECCVETD - MESSAGE ROUTINE 1                |
| 372 | (174) | ADDRESS   | 4   | DCMNMMSG2 | IECCVETE - MESSAGE ROUTINE 2                |
| 376 | (178) | ADDRESS   | 4   | DCMNMMSG3 | IECCVETF - MESSAGE ROUTINE 3                |
| 380 | (17C) | ADDRESS   | 4   | DCMNLPCR  | IECCVETG - LIGHT PEN/CURSOR SERVICE ROUTINE |
| 384 | (180) | ADDRESS   | 4   | DCMNOPL   | IECCVETH - OPEN/CLOSE ROUTINE               |
| 388 | (184) | ADDRESS   | 4   | DCMNCLN   | IECCVETI - CLEANUP MODULE                   |
| 392 | (188) | ADDRESS   | 4   | *         | Reserved                                    |
| 396 | (18C) | ADDRESS   | 4   | DCMNTIMR  | IECCVETK - TIMER INTERPRETER ROUTINE        |
| 400 | (190) | ADDRESS   | 4   | *         | Reserved                                    |
| 404 | (194) | ADDRESS   | 4   | DCMNINT2  | IECCVFTM - INTERFACE 2 ROUTINE              |
| 408 | (198) | ADDRESS   | 4   | DCMNINT3  | IECCVFTN - INTERFACE 3 ROUTINE              |
| 412 | (19C) | ADDRESS   | 4   | *         | Reserved. Was DCMNINT4(FTO)                 |
| 416 | (1A0) | ADDRESS   | 4   | DCMNINT5  | IECCVFTP - INTERFACE 5 ROUTINE              |
| 420 | (1A4) | ADDRESS   | 4   | DCMNINT6  | IECCVFTQ - INTERFACE 6 ROUTINE              |
| 424 | (1A8) | ADDRESS   | 4   | *         | Reserved. Was DCMNINT7(FTT)                 |

Comment

DIDOCs MODULE TRACE AREA

End of Comment

|     |       |           |    |          |                          |
|-----|-------|-----------|----|----------|--------------------------|
| 428 | (1AC) | CHARACTER | 92 | DCMTRACE | TO-AREA FOR TRACE MOVE   |
| 428 | (1AC) | CHARACTER | 2  | *        | OLDEST TRACE ENTRY       |
| 430 | (1AE) | CHARACTER | 90 | DCMTRAC2 | FROM-AREA FOR TRACE MOVE |
| 430 | (1AE) | CHARACTER | 88 | *        |                          |
| 518 | (206) | CHARACTER | 2  | DCMTREN  | CURRENT TRACE ENTRY      |
| 518 | (206) | CHARACTER | 1  | DCMTREN1 | 1ST BYTE OF NEW ENTRY    |

## TDCM Map

### Offsets

| Dec | Hex   | Type/Value | Len | Name (Dim) | Description           |
|-----|-------|------------|-----|------------|-----------------------|
| 519 | (207) | CHARACTER  | 1   | DCMTREN2   | 2ND BYTE OF NEW ENTRY |

Comment

FOLLOWING GROUP OF BYTES ARE DEVICE DEPENDENT

End of Comment

|     |       |           |   |          |                   |
|-----|-------|-----------|---|----------|-------------------|
| 520 | (208) | CHARACTER | 1 | DCMASKEN | ENTER MASK        |
| 521 | (209) | CHARACTER | 1 | DCMASKCN | CANCEL MASK       |
| 522 | (20A) | CHARACTER | 1 | DCMASKCR | CURSOR MASK       |
| 523 | (20B) | CHARACTER | 1 | DCMASKLP | LIGHT PEN MASK    |
| 524 | (20C) | CHARACTER | 1 | DCMSKPF1 | 1ST PFK TYPE MASK |
| 525 | (20D) | CHARACTER | 1 | DCMSKPF2 | 2ND PFK TYPE MASK |
| 526 | (20E) | CHARACTER | 1 | DCMSKPF3 | 3RD PFK TYPE MASK |
| 527 | (20F) | CHARACTER | 1 | DCMSKPF4 | 4TH PFK TYPE MASK |
| 528 | (210) | CHARACTER | 1 | DCMASKCL | CLEAR KEY MASK    |
| 529 | (211) | CHARACTER | 1 | DCMSKPA1 | PA1 KEY MASK      |
| 530 | (212) | CHARACTER | 1 | DCMSKPA3 | PA3 KEY MASK      |
| 531 | (213) | CHARACTER | 1 | DCMSKSRQ | Sys Request key   |
| 532 | (214) | CHARACTER | 4 | *        | RESERVED          |

Comment

ADDRESSES OF PARTS OF THE SCREEN IMAGE BUFFER  
WHEN IN FULL CAPABILITY MODE

End of Comment

|     |       |         |   |          |                                    |
|-----|-------|---------|---|----------|------------------------------------|
| 536 | (218) | ADDRESS | 4 | DCMSADCN | FIRST ADCON IN LIST                |
| 536 | (218) | ADDRESS | 4 | DCMFLLA  | LAST LINE IN MSG AREA              |
| 540 | (21C) | ADDRESS | 4 | DCMFL1A  | LAST LINE IN MSG AREA + 1          |
| 544 | (220) | ADDRESS | 4 | DCMFLSCT | SCT FOR LAST LINE IN MSG AREA      |
| 548 | (224) | ADDRESS | 4 | DCMFST1  | SCT FOR LAST LINE IN MSG AREA + 1  |
| 552 | (228) | ADDRESS | 4 | DCMFSSCT | SSCT FOR LAST LINE IN MSG AREA + 1 |
| 556 | (22C) | ADDRESS | 4 | DCMFENT2 | 2ND LINE OF ENTRY AREA             |
| 560 | (230) | ADDRESS | 4 | DCMFMCT1 | MCT FOR LAST LINE IN MSG AREA + 1  |
| 564 | (234) | ADDRESS | 4 | *(5)     | RESERVED                           |

Comment

ADDRESSES OF PARTS OF THE SCREEN IMAGE BUFFER  
WHEN IN MESSAGE STREAM MODE

End of Comment

|     |       |         |   |          |                                    |
|-----|-------|---------|---|----------|------------------------------------|
| 584 | (248) | ADDRESS | 4 | DCMMLLA  | LAST LINE IN MSG AREA              |
| 588 | (24C) | ADDRESS | 4 | DCMML1A  | LAST LINE IN MSG AREA + 1          |
| 592 | (250) | ADDRESS | 4 | DCMMLSCT | SCT FOR LAST LINE IN MSG AREA      |
| 596 | (254) | ADDRESS | 4 | DCMMSCT1 | SCT FOR LAST LINE IN MSG AREA + 1  |
| 600 | (258) | ADDRESS | 4 | DCMMSST  | SSCT FOR LAST LINE IN MSG AREA + 1 |
| 604 | (25C) | ADDRESS | 4 | DCMMMCT1 | MCT FOR LAST LINE IN MSG AREA + 1  |
| 608 | (260) | ADDRESS | 4 | *(1)     | RESERVED                           |

Comment

ADDRESSES OF PARTS OF THE SCREEN IMAGE BUFFER  
WHEN IN STATUS DISPLAY MODE

End of Comment

|     |       |         |   |          |                                    |
|-----|-------|---------|---|----------|------------------------------------|
| 612 | (264) | ADDRESS | 4 | DCMDLLA  | LAST LINE IN MSG AREA              |
| 616 | (268) | ADDRESS | 4 | DCMDL1A  | LAST LINE IN MSG AREA + 1          |
| 620 | (26C) | ADDRESS | 4 | DCMDLSCT | SCT FOR LAST LINE IN MSG AREA      |
| 624 | (270) | ADDRESS | 4 | DCMDSCT1 | SCT FOR LAST LINE IN MSG AREA + 1  |
| 628 | (274) | ADDRESS | 4 | DCMDSSCT | SSCT FOR LAST LINE IN MSG AREA + 1 |
| 632 | (278) | ADDRESS | 4 | DCMDMCT1 | MCT FOR LAST LINE IN MSG AREA + 1  |
| 636 | (27C) | ADDRESS | 4 | *(1)     | RESERVED                           |



Offsets

| Dec                                                   | Hex   | Type/Value | Len | Name (Dim)     | Description                                                                |
|-------------------------------------------------------|-------|------------|-----|----------------|----------------------------------------------------------------------------|
| Comment                                               |       |            |     |                |                                                                            |
| Miscellaneous Addresses/Fields                        |       |            |     |                |                                                                            |
| End of Comment                                        |       |            |     |                |                                                                            |
| 640                                                   | (280) | ADDRESS    | 4   | DCMLSSCT       | ADDRESS OF LAST SSCT                                                       |
| 644                                                   | (284) | ADDRESS    | 4   | DCMAEORD       | ADDR OF ADJUNCT EXTENDED ORDERS                                            |
| 648                                                   | (288) | ADDRESS    | 4   | DCMQAPTR       | ADDR OF DATA OBTAINED FROM READ PARTITION QUERY                            |
| 652                                                   | (28C) | ADDRESS    | 4   | DCMFIMCT       | ADDRESS OF FIRST MCT                                                       |
| 656                                                   | (290) | ADDRESS    | 4   | DCMLAMCT       | ADDRESS OF LAST MCT                                                        |
| 660                                                   | (294) | ADDRESS    | 4   | DCMOOL_SIB_PTR | ADDRESS OF OUT-OF-LINE SIB                                                 |
| 664                                                   | (298) | ADDRESS    | 4   | DCMOOL_FRST    | POINTER TO FIRST LINE IN OOL SIB                                           |
| 668                                                   | (29C) | SIGNED     | 4   | DCMIORTN_COMM  | I/O ROUTINE COMMUNICATION FIELD                                            |
| 672                                                   | (2A0) | ADDRESS    | 4   | * (2)          | RESERVED                                                                   |
| Comment                                               |       |            |     |                |                                                                            |
| NUMBER OF LINES IN MESSAGE AREA AND ENTRY AREA VALUES |       |            |     |                |                                                                            |
| End of Comment                                        |       |            |     |                |                                                                            |
| 680                                                   | (2A8) | UNSIGNED   | 1   | DCMFNLMA       | MAX NUMBER LINES IN MSG AREA WHEN IN FULL CAPABILITY MODE                  |
| 681                                                   | (2A9) | UNSIGNED   | 1   | DCMMNLMA       | MAX NUMBER LINES IN MSG AREA WHEN IN MESSAGE STREAM MODE                   |
| 682                                                   | (2AA) | UNSIGNED   | 1   | DCMDNLMA       | MAX NUMBER LINES IN MSG AREA WHEN IN STATUS DISPLAY MODE                   |
| 683                                                   | (2AB) | UNSIGNED   | 1   | DCMENTL1       | LINE NUMBER -1 OF 1ST LINE IN ENTRY AREA                                   |
| 684                                                   | (2AC) | UNSIGNED   | 1   | DCMENTL2       | LINE NUMBER -1 OF 2ND LINE IN ENTRY AREA                                   |
| 685                                                   | (2AD) | UNSIGNED   | 1   | DCMINLNM       | LINE NUMBER -1 OF INSTRUCTION LINE                                         |
| 686                                                   | (2AE) | SIGNED     | 2   | *              | RESERVED                                                                   |
| 688                                                   | (2B0) | SIGNED     | 2   | DCMFENRC       | ADDR OF 2ND LINE IN ENTRY AREA IN ROW-COLUMN FORMAT                        |
| 690                                                   | (2B2) | SIGNED     | 2   | DCMENTPO       | OFFSET OF 1ST CHAR IN ENTRY AREA                                           |
| 692                                                   | (2B4) | SIGNED     | 2   | DCMSCRW        | WIDTH OF SCREEN                                                            |
| 694                                                   | (2B6) | SIGNED     | 2   | DCMLENTY       | LENGTH OF ENTRY AREA                                                       |
| 696                                                   | (2B8) | SIGNED     | 4   | *              | RESERVED                                                                   |
| Comment                                               |       |            |     |                |                                                                            |
| Pointers for last command retrieve buffer.            |       |            |     |                |                                                                            |
| End of Comment                                        |       |            |     |                |                                                                            |
| 700                                                   | (2BC) | ADDRESS    | 4   | DCMRBUFC       | Pointer to next command to be executed by the enter function               |
| 704                                                   | (2C0) | ADDRESS    | 4   | DCMRBUFA       | Pointer to last command retrieve buffer                                    |
| 708                                                   | (2C4) | ADDRESS    | 4   | DCMRBUFR       | Pointer to next entry in last command buffer to be retrieved               |
| 712                                                   | (2C8) | ADDRESS    | 4   | DCMRBUFE       | Pointer to next entry in last command buffer to be copied into             |
| 716                                                   | (2CC) | ADDRESS    | 4   | DCMRBFRC       | Pointer to current entry in last command buffer used for retrieve function |
| 720                                                   | (2D0) | CHARACTER  | 108 | *              | Reserved                                                                   |
| Comment                                               |       |            |     |                |                                                                            |
| SAVE AREAS                                            |       |            |     |                |                                                                            |
| End of Comment                                        |       |            |     |                |                                                                            |
| 828                                                   | (33C) | SIGNED     | 4   | DCMTLEN        | TDCM LENGTH                                                                |
| 832                                                   | (340) | CHARACTER  | 6   | DCMAIDSV       | SAVE AREA FOR AID FROM RMI                                                 |
| 838                                                   | (346) | SIGNED     | 2   | *              | RESERVED                                                                   |
| 840                                                   | (348) | ADDRESS    | 4   | DCMTRDCM       | POINTER TO RDCM                                                            |
| 844                                                   | (34C) | ADDRESS    | 4   | DCMNXTOR       | ADDR OF NEXT ADJUNCT EXTENDED ORDER                                        |

# TDCM Map

| Offsets |       |            |     |              |                                                |
|---------|-------|------------|-----|--------------|------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim)   | Description                                    |
| 848     | (350) | UNSIGNED   | 1   | DCMCROW      | CURRENT ROW NUMBER -1                          |
| 849     | (351) | UNSIGNED   | 1   | DCMCCOL      | CURRENT COL NUMBER -1                          |
| 850     | (352) | BITSTRING  | 1   | DCMMFRMF     | FULL CAPABILITY MFORM SAVEAREA                 |
|         |       | 1... ....  |     | DCMMFRFT     | DISPLAY TIME STAMP                             |
|         |       | .1.. ....  |     | DCMMFRFJ     | DISPLAY JOB NAME                               |
|         |       | ..1. ....  |     | DCMMFRFS     | DISPLAY SYSTEM NAME                            |
|         |       | ...1 ....  |     | DCMMFRFX     | DON'T DISPLAY SYSTEM NAME AND JOB NAME         |
|         |       | .... 1111  |     | *            | RESERVED                                       |
| 851     | (353) | CHARACTER  | 2   | DCMDELFC     | FULL CAPABILITY DEL SAVE                       |
| 853     | (355) | CHARACTER  | 1   | DCMCONFC     | FULL CAPABILITY CON SAVE                       |
| 854     | (356) | UNSIGNED   | 1   | DCMSEGFC     | FULL CAPABILITY SEG SAVE                       |
| 855     | (357) | UNSIGNED   | 1   | DCMRNUMF     | FULL CAPABILITY RNUM SAVE                      |
| 856     | (358) | UNSIGNED   | 2   | DCMRTMEF     | FULL CAPABILITY RTME SAVE IN TENTHS OF SECONDS |
| 858     | (35A) | BITSTRING  | 1   | DCMMFRMM     | MESSAGE STREAM MFORM SAVEAREA                  |
|         |       | 1... ....  |     | DCMMFRMT     | DISPLAY TIME STAMP                             |
|         |       | .1.. ....  |     | DCMMFRMJ     | DISPLAY JOB NAME                               |
|         |       | ..1. ....  |     | DCMMFRMS     | DISPLAY SYSTEM NAME                            |
|         |       | ...1 ....  |     | DCMMFRMX     | DON'T DISPLAY SYSTEM NAME AND JOB NAME         |
|         |       | .... 1111  |     | *            | RESERVED                                       |
| 859     | (35B) | CHARACTER  | 2   | DCMDELMS     | MESSAGE STREAM DEL SAVE                        |
| 861     | (35D) | CHARACTER  | 1   | DCMCONMS     | MESSAGE STREAM CON SAVE                        |
| 862     | (35E) | UNSIGNED   | 1   | DCMSEGMS     | MESSAGE STREAM SEG SAVE                        |
| 863     | (35F) | UNSIGNED   | 1   | DCMRNUMM     | MESSAGE STREAM RNUM SAVE                       |
| 864     | (360) | UNSIGNED   | 2   | DCMRTMEM     | MESSAGE STREAM RTME SAVE IN TENTHS OF SECONDS  |
| 866     | (362) | SIGNED     | 2   | DCMQALEN     | LENGTH OF AREA TO HOLD READ PARTITION QUERY    |
| 868     | (364) | SIGNED     | 2   | DCMSTOFF     | START OFFSET OF MULTIPLE COMMAND PARSE         |
| 870     | (366) | SIGNED     | 2   | DCMNDOFF     | END OFFSET OF MULTIPLE COMMAND TEXT            |
| 872     | (368) | UNSIGNED   | 1   | DCMOOL_LINEN | LINE NUMBER OF START OF OOL TO WRITE           |
| 873     | (369) | UNSIGNED   | 3   | *            | Reserved                                       |
| 876     | (36C) | SIGNED     | 4   | DCMOOL_BYTCT | NUMBER OF BYTES TO WRITE FOR AN OOL            |

Comment

THE DCMBUFFER WORK AREA IS TO BE USED ON A MODULE-BY-MODULE BASIS ONLY. THIS AREA MUST NOT BE USED AS A COMMUNICATION MEDIUM. DOING SO WOULD DEFEAT THE PURPOSE OF GIVING THE DIDOCS MODULES A SAFE WORK AREA.

End of Comment

|     |       |           |     |           |                  |
|-----|-------|-----------|-----|-----------|------------------|
| 880 | (370) | CHARACTER | 168 | DCMBUFFER | MODULE WORK AREA |
|-----|-------|-----------|-----|-----------|------------------|

Comment

MCS LOGON COMMUNICATIONS FIELDS

End of Comment

|      |       |           |    |          |                                    |
|------|-------|-----------|----|----------|------------------------------------|
| 1048 | (418) | BITSTRING | 1  | DCMBFLGS | MCS LOGON COMMUNICATIONS FLAGS@L8A |
|      |       | 1... .... |    | DCMWLGPR | GENERATE LOGON PROMPT              |
|      |       | .1.. .... |    | DCMDIDLG | DIDOCS GENERATED LOGON             |
|      |       | ..1. .... |    | DCMLGMSG | WRITE LOGON MESSAGE                |
|      |       | ...1 .... |    | DCMICUPW | INSERT CURSER UNDER PASSWORD       |
|      |       | .... 1... |    | DCMICUGP | INSERT CURSER UNDER GROUP          |
|      |       | .... .1.. |    | DCMICUSC | INSERT CURSER UNDER SECCLASS       |
|      |       | .... ..11 |    | *        | RESERVED                           |
| 1049 | (419) | UNSIGNED  | 1  | DCMEMTYP | ERROR MESSAGE TYPE                 |
| 1050 | (41A) | CHARACTER | 8  | DCMUSRID | USERID ENTERED WITH LOGON          |
| 1058 | (422) | CHARACTER | 26 | DCMPWORD | PASSWORD ENTERED WITH LOGON        |
| 1084 | (43C) | CHARACTER | 8  | DCMGROUP | GROUP ENTERED WITH LOGON           |
| 1092 | (444) | CHARACTER | 8  | DCMSCCLS | SECCLASS ENTERED WITH LOGON        |

Offsets

| Dec                                                                                                                                                                                                                 | Hex   | Type/Value | Len | Name (Dim)     | Description                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|-----|----------------|---------------------------------------------------|
| Comment                                                                                                                                                                                                             |       |            |     |                |                                                   |
| <p>THE DCMWORK WORK AREA IS TO BE USED ON A MODULE-BY-MODULE BASIS ONLY. THIS AREA MUST NOT BE USED AS A COMMUNICATION MEDIUM. DOING SO WOULD DEFEAT THE PURPOSE OF GIVING THE DIDOCS MODULES A SAFE WORK AREA.</p> |       |            |     |                |                                                   |
| End of Comment                                                                                                                                                                                                      |       |            |     |                |                                                   |
| 1100                                                                                                                                                                                                                | (44C) | CHARACTER  | 16  | DCMWORK        | MODULE WORK AREA                                  |
| 1100                                                                                                                                                                                                                | (44C) | CHARACTER  | 4   | DCMWORKA       | WORK AREA A                                       |
| 1104                                                                                                                                                                                                                | (450) | CHARACTER  | 4   | DCMWORKB       | WORK AREA A                                       |
| 1108                                                                                                                                                                                                                | (454) | CHARACTER  | 4   | DCMWORKC       | WORK AREA A                                       |
| 1112                                                                                                                                                                                                                | (458) | CHARACTER  | 4   | DCMWORKD       | WORK AREA A                                       |
| Comment                                                                                                                                                                                                             |       |            |     |                |                                                   |
| <p>DCMCSNM STORES THE COMMAND ASSOCIATION FOR MCS CONSOLE</p>                                                                                                                                                       |       |            |     |                |                                                   |
| End of Comment                                                                                                                                                                                                      |       |            |     |                |                                                   |
| 1116                                                                                                                                                                                                                | (45C) | CHARACTER  | 8   | DCMCSNM        | COMMAND ASSOCIATION                               |
| Comment                                                                                                                                                                                                             |       |            |     |                |                                                   |
| <p>CHANNEL PROGRAM AREA</p>                                                                                                                                                                                         |       |            |     |                |                                                   |
| End of Comment                                                                                                                                                                                                      |       |            |     |                |                                                   |
| 1124                                                                                                                                                                                                                | (464) | CHARACTER  | 3   | DCMPFKC        | SBA-A1-A2 FOR PFK LINE                            |
| 1124                                                                                                                                                                                                                | (464) | CHARACTER  | 1   | *              | SET BUFFER ADDR                                   |
| 1125                                                                                                                                                                                                                | (465) | CHARACTER  | 2   | DCMPFKRC       | ADDR OF PFK LINE IN ROW-COLUMN FORMAT             |
| 1127                                                                                                                                                                                                                | (467) | CHARACTER  | 1   | *              | RESERVED to get to DWORD bdy                      |
| 1128                                                                                                                                                                                                                | (468) | CHARACTER  | 1   | DCMWCC         | WRITE CONTROL CHARACTER                           |
| 1129                                                                                                                                                                                                                | (469) | CHARACTER  | 1   | DCMEWAWC       | WRITE CONTROL CHARACTER FOR ERASE/WRITE ALTERNATE |
| 1130                                                                                                                                                                                                                | (46A) | CHARACTER  | 7   | DCMERSDT       | ERASE SCREEN DATA (SBA-A1-A2-RA-A1-A2-BLANK)      |
| 1137                                                                                                                                                                                                                | (471) | CHARACTER  | 4   | DCMCRSDT       | INSERT CURSOR DATA (SBA-A1-A2-IC)                 |
| 1141                                                                                                                                                                                                                | (475) | CHARACTER  | 1   | DCMWCC_RESTORE |                                                   |
| 1142                                                                                                                                                                                                                | (476) | CHARACTER  | 2   | *              | WCC for restoring keyboard<br>RESERVED            |
| 1144                                                                                                                                                                                                                | (478) | CHARACTER  | 8   | DCMCCWS        | SELECT CCW                                        |
| Comment                                                                                                                                                                                                             |       |            |     |                |                                                   |

DCMCHPGM is used for the CCWs for MCS consoles and Write Structured Fields (WSF) for SMCS consoles. This area must be large enough to contain enough CCWs or WSFs to write an entire screen of data. To calculate the number of CCWs or WSFs needed, the following calculation is used:

$((\text{Max Rows}) (\text{Max Cols})) / (\text{Device Buffer Size})$   
 IEECVFTW can build a TDCM that is 255 rows and 255 columns, however, since DIDOCS can only use 14-bit addressing,  $((\text{Max Rows}) (\text{Max Cols})) < 16384$ . If DIDOCS is ever able to support 16-bit addressing, these calculations will be invalid and must be recalculated. The Device Buffer Size is dependent on the type of console. For MCS consoles, a 7K buffer size is used to perform the calculations:

$$((\text{Max Rows}) (\text{Max Cols})) / (\text{Device Buffer Size})$$

$$16383 / 7168 = 3$$

DCMCHPGM must be big enough to hold 2 CCWs.

## TDCM Map

### Offsets

| Dec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Hex   | Type/Value | Len | Name (Dim) | Description                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|-----|------------|---------------------------------------|
| <p>For SMCS consoles, the Device Buffer Size is variable. It is based on the RU size, and is a minimum of 1K and a maximum of 4K. Using the 1K buffer size:</p> <p>((Max Rows) (Max Cols))/(Device Buffer Size)</p> <p>16383 / 1024 = 16</p> <p>DCMCHPGM must be big enough to hold 15 WSFs. In reality, DCMCHPGM must be slightly larger, because these calculations only take into account the text that is actually written to the screen. There is other information that must also be written, such as the adjunct color orders. DCMCHPGM is actually large enough to hold 25 WSFs for SMCS consoles and 19 CCWs for MCS consoles.</p> |       |            |     |            |                                       |
| End of Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |            |     |            |                                       |
| 1152                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (480) | CHARACTER  | 152 | DCMCHPGM   | CHANNEL PROGRAM AREA                  |
| 1304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (518) | CHARACTER  | 2   | DCMAAREA   | CONVERSION AREA FOR A BUFFER POSITION |
| 1304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (518) | CHARACTER  | 1   | DCMROWA    | ROW POSITION                          |
| 1305                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (519) | CHARACTER  | 1   | DCMCOLA    | COLUMN POSITION                       |
| 1306                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (51A) | CHARACTER  | 2   | *          | RESERVED                              |

### Comment

#### SNA MCS Fields

|                |       |         |   |                   |                                      |
|----------------|-------|---------|---|-------------------|--------------------------------------|
| End of Comment |       |         |   |                   |                                      |
| 1308           | (51C) | ADDRESS | 4 | DCMS_WSFA_PTR     | POINTER TO SMCS WSF AREA             |
| 1312           | (520) | ADDRESS | 4 | DCMS_INAREA_PTR   | POINTER TO INPUT AREA FOR MCS/SMCS   |
| 1316           | (524) | ADDRESS | 4 | DCMS_WSFA_CURPTR  | POINTER TO CURRENT WSF               |
| 1320           | (528) | SIGNED  | 4 | DCMS_WSFA_LEN     | LENGTH OF WSF AREA                   |
| 1324           | (52C) | ADDRESS | 4 | DCMS_BLENTA_PTR   | POINTER TO BUFFER LIST ENTRIES       |
| 1328           | (530) | ADDRESS | 4 | DCMS_BLENT_CURPTR | POINTER TO CURRENT BUFFER LIST ENTRY |
| 1332           | (534) | SIGNED  | 4 | DCMS_BLENT_LEN    | LENGTH OF BUFFER LIST ENTRIES        |
| 1336           | (538) | SIGNED  | 2 | DCMS_REISSUE_CNT  | NUMBER OF TIMES I/O RETRIED          |

### Comment

DCMS\_FLAGS must not contain flags that are used outside of IECEVET1's load module for serialization reasons. Flags that are used outside of IECEVET1 may be placed in DCMS\_FLAGS2 instead.

|                |       |           |   |                                 |                                                |
|----------------|-------|-----------|---|---------------------------------|------------------------------------------------|
| End of Comment |       |           |   |                                 |                                                |
| 1338           | (53A) | BITSTRING | 1 | DCMS_FLAGS                      | SMCS CONSOLE FLAGS                             |
|                |       | 1... .... |   | DCMS_RECV_ISSUED                | A RECEIVE IS OUTSTANDING FOR THIS SMCS CONSOLE |
|                |       | .1.. .... |   | DCMS_RE_RECEIVE                 | Need to go to I/O routine to reissue RECEIVE   |
|                |       | ..1. .... |   | DCMS_ERSET                      | WSF CONTAINS ERASE/RESET                       |
|                |       | ...1 .... |   | DCMS ETF_EXIT                   | I/O ROUTINE TO EXIT TO IECEVETF                |
|                |       | .... 1... |   | DCMS_LU2                        | LU2 TYPE OF DEVICE (AS OPPOSED TO LU0)         |
|                |       | .... .1.. |   | DCMS_LOGON_PROMPT_IN_ENTRY_AREA | Logon prompt is currently in the entry area    |

| Offsets                                                                                                                                                                                                                                                                                                   |       |                        |     |                       |                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------|-----|-----------------------|----------------------------------------------------------------------------------------|
| Dec                                                                                                                                                                                                                                                                                                       | Hex   | Type/Value             | Len | Name (Dim)            | Description                                                                            |
| Comment                                                                                                                                                                                                                                                                                                   |       |                        |     |                       |                                                                                        |
| <p>The CONSOLE local lock must always be held when updating the DCMS_FLAGS2 byte. These flags may be referenced outside of IEECVET1.</p>                                                                                                                                                                  |       |                        |     |                       |                                                                                        |
| End of Comment                                                                                                                                                                                                                                                                                            |       |                        |     |                       |                                                                                        |
| 1339                                                                                                                                                                                                                                                                                                      | (53B) | BITSTRING<br>1... .... | 1   | DCMS_FLAGS2           | SMCS CONSOLE FLAGS 2                                                                   |
|                                                                                                                                                                                                                                                                                                           |       |                        |     | DCMS_OUTPUT_SUSPENDED | SMCS output is suspended                                                               |
|                                                                                                                                                                                                                                                                                                           |       | .1... ....             |     | DCMS_NBB_REQUIRED     | "IN BRACKET" STATE SO I/O MUST START WITH NBB (I.E., WE ARE IN THE MIDDLE OF BRACKETS) |
| 1340                                                                                                                                                                                                                                                                                                      | (53C) | ADDRESS                | 4   | DCMS_MAX_WSF_LEN      | Max size of a WSF                                                                      |
| 1344                                                                                                                                                                                                                                                                                                      | (540) | ADDRESS                | 4   | DCMS_RU_SIZE          | RU Size from BIND                                                                      |
| Comment                                                                                                                                                                                                                                                                                                   |       |                        |     |                       |                                                                                        |
| <p>The following fields contain screen location information when the LOGON prompt is on the screen. It is used for SMCS consoles to put the response to the prompt back into the entry area. These fields are always calculated, but are only used by consoles that support the extended data stream.</p> |       |                        |     |                       |                                                                                        |
| End of Comment                                                                                                                                                                                                                                                                                            |       |                        |     |                       |                                                                                        |
| 1348                                                                                                                                                                                                                                                                                                      | (544) | ADDRESS                | 4   | DCMS_UID_AREA         | Ptr to Entry area for Userid                                                           |
| 1352                                                                                                                                                                                                                                                                                                      | (548) | BITSTRING              | 2   | DCMS_UID_14BIT        | 14-Bit screen address of Userid                                                        |
| 1354                                                                                                                                                                                                                                                                                                      | (54A) | BITSTRING              | 2   | DCMS_UID_12BIT        | 12-Bit screen address of Userid                                                        |
| 1356                                                                                                                                                                                                                                                                                                      | (54C) | ADDRESS                | 4   | DCMS_PWRD_AREA        | Ptr to Entry area for Paswrd                                                           |
| 1360                                                                                                                                                                                                                                                                                                      | (550) | BITSTRING              | 2   | DCMS_PWRD_14BIT       | 14-Bit screen address of Password                                                      |
| 1362                                                                                                                                                                                                                                                                                                      | (552) | BITSTRING              | 2   | DCMS_PWRD_12BIT       | 12-Bit screen address of Password                                                      |
| 1364                                                                                                                                                                                                                                                                                                      | (554) | ADDRESS                | 4   | DCMS_GRP_AREA         | Ptr to Entry area for Group                                                            |
| 1368                                                                                                                                                                                                                                                                                                      | (558) | BITSTRING              | 2   | DCMS_GRP_14BIT        | 14-Bit screen address of Group                                                         |
| 1370                                                                                                                                                                                                                                                                                                      | (55A) | BITSTRING              | 2   | DCMS_GRP_12BIT        | 12-Bit screen address of Group                                                         |
| 1372                                                                                                                                                                                                                                                                                                      | (55C) | ADDRESS                | 4   | DCMS_SECC_AREA        | Ptr to Entry area for SecCls                                                           |
| 1376                                                                                                                                                                                                                                                                                                      | (560) | BITSTRING              | 2   | DCMS_SECC_14BIT       | 14-Bit screen address of SecClass                                                      |
| 1378                                                                                                                                                                                                                                                                                                      | (562) | BITSTRING              | 2   | DCMS_SECC_12BIT       | 12-Bit screen address of SecClass                                                      |
| 1380                                                                                                                                                                                                                                                                                                      | (564) | ADDRESS                | 4   | DCMS_UID_PMPT         | Address of LOGON text in entry area                                                    |
| 1384                                                                                                                                                                                                                                                                                                      | (568) | ADDRESS                | 4   | DCMS_PWRD_PMPT        | Address of PASSWORD text in entry area                                                 |
| 1388                                                                                                                                                                                                                                                                                                      | (56C) | ADDRESS                | 4   | DCMS_GRP_PMPT         | Address of GROUP text in entry area                                                    |
| 1392                                                                                                                                                                                                                                                                                                      | (570) | ADDRESS                | 4   | DCMS_SECC_PMPT        | Address of SECLABEL text in entry area                                                 |
| 1396                                                                                                                                                                                                                                                                                                      | (574) | ADDRESS                | 4   | DCMS_CHGM_PMPT        | Address of OLD/NEW/NEW text in entry area                                              |
| 1400                                                                                                                                                                                                                                                                                                      | (578) | UNSIGNED               | 1   | DCM_UID_TEXT          | Offset within the entry area of LOGON text                                             |
| 1401                                                                                                                                                                                                                                                                                                      | (579) | UNSIGNED               | 1   | DCM_UID_COL           | Offset within the entry area of the userid field                                       |

## TDCM Map

| Offsets |       |            |     |                  |                                                                                                                                                                                   |
|---------|-------|------------|-----|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim)       | Description                                                                                                                                                                       |
| 1402    | (57A) | UNSIGNED   | 1   | DCM_PWRD_TEXT    | Offset within the entry area of PASSWORD text                                                                                                                                     |
| 1403    | (57B) | UNSIGNED   | 1   | DCM_PWRD_COL     | Offset within the entry area of the password field                                                                                                                                |
| 1404    | (57C) | UNSIGNED   | 1   | DCM_CHGM_TEXT    | Offset within the entry area of the OLD/NEW/NEW text                                                                                                                              |
| 1405    | (57D) | UNSIGNED   | 1   | DCM_GRP_TEXT     | Offset within the entry area of the GROUP text                                                                                                                                    |
| 1406    | (57E) | UNSIGNED   | 1   | DCM_GRP_COL      | Offset within the entry area of the group field                                                                                                                                   |
| 1407    | (57F) | UNSIGNED   | 1   | DCM_GRP_END      | Offset within the entry area of the end of the group field (this is used to set the attributes at the end of the field, since GROUP and SECLABEL are not always on the same line) |
| 1408    | (580) | UNSIGNED   | 1   | DCM_SECC_TEXT    | Offset within the entry area of the SECLABEL text                                                                                                                                 |
| 1409    | (581) | UNSIGNED   | 1   | DCM_SECC_COL     | Offset within the entry area of the secclass field                                                                                                                                |
| 1410    | (582) | UNSIGNED   | 1   | DCM_REST_COL     | Offset within the entry area of the end of the secclass field. This is used to set up the attributes of the rest of the entry area                                                |
| 1411    | (583) | UNSIGNED   | 1   | DCM_UID_E_COL    | Offset within the entry area of the cursor position for the userid field                                                                                                          |
| 1412    | (584) | UNSIGNED   | 1   | DCM_PWRD_E_COL   | Offset within the entry area of the cursor position for the password field                                                                                                        |
| 1413    | (585) | UNSIGNED   | 1   | DCM_GRP_E_COL    | Offset within the entry area of the cursor position for the group field                                                                                                           |
| 1414    | (586) | UNSIGNED   | 1   | DCM_GRPEND_E_COL | Offset within the entry area of the end of the group field. This is used to set the attributes of the SECLABEL text.                                                              |
| 1415    | (587) | UNSIGNED   | 1   | DCM_SECC_E_COL   | Offset within the entry area of the cursor position for the secclas field                                                                                                         |
| 1416    | (588) | UNSIGNED   | 1   | DCM_REST_E_COL   | Offset within the entry area of the end of the secclass field. This is used to set the attributes of the remainder of the entry area                                              |
| 1417    | (589) | UNSIGNED   | 1   | DCM_PWRD_E_TEXT  | Offset within the entry area of the PASSWORD text used for setting the attributes of that text                                                                                    |
| 1418    | (58A) | UNSIGNED   | 1   | DCM_GRP_E_TEXT   | Offset within the entry area of the GROUP text used for setting the attributes of that text                                                                                       |
| 1419    | (58B) | UNSIGNED   | 1   | DCM_CHGM_E_TEXT  | Offset within the entry area of the OLD/NEW/NEW text used for setting the attributes of that text                                                                                 |
| 1420    | (58C) | UNSIGNED   | 1   | DCM_SECC_E_TEXT  | Offset within the entry area of the SECLABEL text used for setting the attributes of that text                                                                                    |
| 1421    | (58D) | CHARACTER  | 3   | *                | Reserved                                                                                                                                                                          |

Comment

SENSE code trace for SMCS consoles.

End of Comment

|      |       |           |    |                         |                                                   |
|------|-------|-----------|----|-------------------------|---------------------------------------------------|
| 1424 | (590) | CHARACTER | 72 | DCMS_SENSE_TRACE        | SENSE code trace                                  |
| 1424 | (590) | CHARACTER | 12 | *                       | Oldest trace entry                                |
| 1436 | (59C) | CHARACTER | 60 | DCMS_SENSE_TRACE_2_MOVE | Portion of trace to copy when adding to the table |
| 1436 | (59C) | CHARACTER | 48 | *                       |                                                   |
| 1484 | (5CC) | CHARACTER | 12 | DCMS_LAST_SENSE         | Newest SENSE trace entry                          |
| 1496 | (5D8) | CHARACTER | 0  | *                       | END ON WORD BOUNDARY                              |

| Offsets |     |            |     |            |                                          |
|---------|-----|------------|-----|------------|------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                              |
| 0       | (0) | STRUCTURE  | 4   | DCMSCTA    |                                          |
| 0       | (0) | BITSTRING  | 1   | DCMSCTA1   | FIRST BYTE OF AN SCT                     |
|         |     | 1... ....  |     | DCMMSGOR   | WTOR MESSAGE DISPLAYED                   |
|         |     | .1.. ....  |     | DCMMSGIN   | MESSAGE DISPLAYED IN LINE                |
|         |     | ..1. ....  |     | DCMMSGCN   | MESSAGE CONTINUED ON NEXT NEXT LINE      |
|         |     | ...1 ....  |     | *          | Reserved - Was DCMMSGJK                  |
|         |     | .... 1..   |     | DCMMSGAD   | MESSAGE CAN BE AUTO DELETED              |
|         |     | .... .1..  |     | DCMMSGRD   | REQUEST HAS SPECIFIED MESSAGE BE REMOVED |
|         |     | .... ..1.  |     | DCMMSGIF   | INFORMATIONAL MESSAGE IN LINE            |
|         |     | .... ...1  |     | DCMMSGST   | END OF TABLE INDICATOR                   |

Comment

SECOND BYTE OF AN SCT

End of Comment

|   |     |           |   |          |                                                          |
|---|-----|-----------|---|----------|----------------------------------------------------------|
| 1 | (1) | BITSTRING | 1 | DCMSCTA2 | SECOND BYTE OF AN SCT                                    |
|   |     | 1... .... |   | DCMMSGAC | ACTION MESSAGE                                           |
|   |     | .1.. .... |   | DCMMSGC7 | DESCRIPTOR CODE 7 MESSAGE                                |
|   |     | ..1. .... |   | DCMMSGR2 | RESERVED - WAS DCMMSGDM                                  |
|   |     | ...1 .... |   | DCMMSGUA | URGENT ATTENTION MESSAGE DISPLAYED IN LINE               |
|   |     | .... 1..  |   | DCMMSGEA | EVENTUAL ACTION MESSAGE DISPLAYED IN LINE - WAS DCMMSGIR |
|   |     | .... .1.. |   | DCMMSGCT | THIS IS A CONTINUED LINE                                 |
|   |     | .... ..1. |   | DCMMSGPP | ISSUED BY PROBLEM PROGRAM                                |
|   |     | .... ...1 |   | DCMMSGCL | CONTROL LINE OF AN IN-LINE MLWTO                         |

Comment

THIRD BYTE OF AN SCT

End of Comment

|   |     |           |   |          |                                |
|---|-----|-----------|---|----------|--------------------------------|
| 2 | (2) | BITSTRING | 1 | DCMSCTA3 | THIRD BYTE OF AN SCT           |
|   |     | 1... .... |   | *        | Reserved                       |
|   |     | .1.. .... |   | DCMSEPLN | Separator line is in this line |
|   |     | ..11 1111 |   | *        | Reserved                       |

Comment

FOURTH BYTE OF AN SCT

End of Comment

|   |     |           |   |          |                                          |
|---|-----|-----------|---|----------|------------------------------------------|
| 3 | (3) | BITSTRING | 1 | DCMSCTA4 | FOURTH BYTE OF AN SCT                    |
|   |     | 1... .... |   | DCMMSGCO | MESSAGE COLOR CHANGED BY WTO EXIT        |
|   |     | .1.. .... |   | DCMMSGHI | MESSAGE HIGHLIGHTING CHANGED BY WTO EXIT |
|   |     | ..1. .... |   | DCMMSGIT | MESSAGE INTENSITY CHANGED BY WTO EXIT    |

| Offsets |     |            |     |                       |                                                                                                                                                                     |
|---------|-----|------------|-----|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim)            | Description                                                                                                                                                         |
| 0       | (0) | STRUCTURE  | 2   | DCMSCTC               |                                                                                                                                                                     |
| 0       | (0) | BITSTRING  | 1   | DCMSCTC1              | FIRST BYTE OF AN SSCT                                                                                                                                               |
|         |     | 1... ....  |     | DCMSECCL              | CONTROL LINE OF O-O-L DISPLAY                                                                                                                                       |
|         |     | .1.. ....  |     | DCMSECLL              | LABEL LINE OF O-O-L DISPLAY                                                                                                                                         |
|         |     | ..1. ....  |     | DCMSECDL              | DATA LINE OF O-O-L DISPLAY                                                                                                                                          |
|         |     | ...1 ....  |     | DCMSECBL              | THIS LINE IS BLANKED                                                                                                                                                |
|         |     | .... 1..   |     | DCMSEC_NEEDS_REFORMAT | Line needs to be reformatted before being displayed. Set for a control line when it is first placed in SIB. Once reformatted and displayed, this bit will not be on |
|         |     | .... .1..  |     | *                     | RESERVED - WAS DCMSECYY                                                                                                                                             |
|         |     | .... ..1.  |     | DCMSECDD              | LINE RESERVED FOR DYNAMIC DISPLAY                                                                                                                                   |
|         |     | .... ...1  |     | DCMSECST              | END OF TABLE INDICATOR                                                                                                                                              |

## TDCM Map

### Offsets

| Dec                          | Hex | Type/Value | Len | Name (Dim) | Description            |
|------------------------------|-----|------------|-----|------------|------------------------|
| Comment                      |     |            |     |            |                        |
| SECOND BYTE OF AN SSCT ENTRY |     |            |     |            |                        |
| End of Comment               |     |            |     |            |                        |
| 1                            | (1) | BITSTRING  | 1   | DCMSCTC2   | SECOND BYTE OF AN SSCT |

### Offsets

| Dec | Hex | Type/Value | Len | Name (Dim) | Description                             |
|-----|-----|------------|-----|------------|-----------------------------------------|
| 0   | (0) | STRUCTURE  | 11  | DCMORDER   | EXTENDED ORDERS                         |
| 0   | (0) | CHARACTER  | 3   | DCMSBAO    | SET BUFFER ADDRESS FIELD                |
| 0   | (0) | UNSIGNED   | 1   | DCMSBA     | SET BUFFER ADDRESS ORDER                |
| 1   | (1) | UNSIGNED   | 1   | DCMSBAA1   | SET BUFFER ADDRESS ROW ADDR             |
| 2   | (2) | UNSIGNED   | 1   | DCMSBAA2   | SET BUFFER ADDRESS COL ADDR             |
| 3   | (3) | CHARACTER  | 8   | DCMSFEO    | START FIELD EXTENDED FIELD              |
| 3   | (3) | UNSIGNED   | 1   | DCMSFE     | START FIELD EXTENDED ORDER              |
| 4   | (4) | UNSIGNED   | 1   | DCMSFEN    | NUMBER OF TYPE/VALUE PAIRS WHICH FOLLOW |
| 5   | (5) | UNSIGNED   | 1   | DCMSFEFT   | FIELD ATTRIBUTE TYPE                    |
| 6   | (6) | UNSIGNED   | 1   | DCMSFEFA   | FIELD ATTRIBUTE VALUE                   |
| 7   | (7) | UNSIGNED   | 1   | DCMSFECT   | COLOR ATTRIBUTE TYPE                    |
| 8   | (8) | UNSIGNED   | 1   | DCMSFECA   | COLOR ATTRIBUTE VALUE                   |
| 9   | (9) | UNSIGNED   | 1   | DCMSFEHT   | HIGHLIGHTING ATTRIBUTE TYPE             |
| 10  | (A) | UNSIGNED   | 1   | DCMSFEHA   | HIGHLIGHTING ATTRIBUTE VALUE            |

### Offsets

| Dec | Hex | Type/Value | Len | Name (Dim) | Description                  |
|-----|-----|------------|-----|------------|------------------------------|
| 3   | (3) | STRUCTURE  | 7   | DCMSAO     | SET ATTRIBUTE FIELD          |
| 3   | (3) | UNSIGNED   | 1   | DCMSA1     | SET ATTRIBUTE ORDER          |
| 4   | (4) | UNSIGNED   | 1   | DCMSAHT    | HIGHLIGHTING ATTRIBUTE TYPE  |
| 5   | (5) | UNSIGNED   | 1   | DCMSAHA    | HIGHLIGHTING ATTRIBUTE VALUE |
| 6   | (6) | CHARACTER  | 1   | DCMSADAT   | DATA TO HIGHLIGHT            |
| 7   | (7) | UNSIGNED   | 1   | DCMSA2     | SET ATTRIBUTE ORDER          |
| 8   | (8) | UNSIGNED   | 2   | DCMSARST   | CHARACTER ATTRIBUTE RESET    |

### Offsets

| Dec | Hex | Type/Value | Len | Name (Dim) | Description         |
|-----|-----|------------|-----|------------|---------------------|
| 0   | (0) | STRUCTURE  | 18  | DCMDOMEN   | MAP OF A DOM ENTRY  |
| 0   | (0) | ADDRESS    | 4   | DCMDTCB    | JOBSTEP TCB ADDRESS |
| 4   | (4) | CHARACTER  | 4   | DCMDOMID   | FOUR BYTE DOM ID    |
| 4   | (4) | UNSIGNED   | 1   | DCMDSYID   | SYSTEM ID           |
| 5   | (5) | CHARACTER  | 3   | DCMDMID    | DOM ID              |
| 8   | (8) | CHARACTER  | 6   | DCMDTKAS   | TOKEN AND ASID      |
| 8   | (8) | CHARACTER  | 4   | DCMDTOKN   | DOM TOKEN           |
| 12  | (C) | UNSIGNED   | 2   | DCMDASID   | ASID                |
| 14  | (E) | CHARACTER  | 4   | DCMDRSVD   | RESERVED            |

### Offsets

| Dec | Hex  | Type/Value | Len | Name (Dim) | Description                                       |
|-----|------|------------|-----|------------|---------------------------------------------------|
| 0   | (0)  | STRUCTURE  | 136 | DCMRBUF    | Map of a command retrieve buffer entry            |
| 0   | (0)  | ADDRESS    | 4   | DCMRBUFF   | Pointer to next command retrieve buffer entry     |
| 4   | (4)  | ADDRESS    | 4   | DCMRBUFB   | Pointer to previous command retrieve buffer entry |
| 8   | (8)  | CHARACTER  | 126 | DCMRBUFT   | Command text                                      |
| 134 | (86) | CHARACTER  | 2   | *          | Reserved                                          |



| Offsets |     |            |     |            |                            |
|---------|-----|------------|-----|------------|----------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                |
| 0       | (0) | STRUCTURE  | 4   | DCMMCTEN   |                            |
| 0       | (0) | BITSTRING  | 1   | DCMMCTCO   | FIRST BYTE OF A MCT ENTRY  |
|         |     | 1... ....  |     | DCMBLUE    | MESSAGE COLOR IS BLUE      |
|         |     | .1.. ....  |     | DCMRD      | MESSAGE COLOR IS RED       |
|         |     | ..1. ....  |     | DCMPINK    | MESSAGE COLOR IS PINK      |
|         |     | ...1 ....  |     | DCMGREEN   | MESSAGE COLOR IS GREEN     |
|         |     | .... 1..   |     | DCMTURQ    | MESSAGE COLOR IS TURQUOISE |
|         |     | .... .1..  |     | DCMYELLOW  | MESSAGE COLOR IS YELLOW    |
|         |     | .... ..1.  |     | DCMWHITE   | MESSAGE COLOR IS WHITE     |
|         |     | .... ...1  |     | DCMMCTST   | TABLE STOPPER              |

Comment

SECOND BYTE OF A MCT

End of Comment

|   |     |           |   |          |                            |
|---|-----|-----------|---|----------|----------------------------|
| 1 | (1) | BITSTRING | 1 | DCMMCTHI | SECOND BYTE OF A MCT ENTRY |
|   |     | 1... .... |   | DCMHNONE | NO HIGHLIGHTING IN EFFECT  |
|   |     | .1.. .... |   | DCMBLINK | BLINKING HIGHLIGHTING      |
|   |     | ..1. .... |   | DCMRVIDO | REVERSE VIDEO HIGHLIGHT    |
|   |     | ...1 .... |   | DCMUNDER | UNDERLINE HIGHLIGHT        |

Comment

THIRD BYTE OF A MCT

End of Comment

|   |     |           |   |          |                     |
|---|-----|-----------|---|----------|---------------------|
| 2 | (2) | BITSTRING | 1 | DCMMCTIN | THIRD BYTE OF A MCT |
|   |     | 1... .... |   | DCMINORM | NORMAL INTENSITY    |
|   |     | .1.. .... |   | DCMIHIGH | HIGH INTENSITY      |

Comment

FOURTH BYTE OF A MCT

End of Comment

|   |     |           |   |          |                      |
|---|-----|-----------|---|----------|----------------------|
| 3 | (3) | BITSTRING | 1 | DCMMCTRV | FOURTH BYTE OF A MCT |
|---|-----|-----------|---|----------|----------------------|

Offsets

| Dec | Hex   | Type/Value | Len | Name (Dim)   | Description                                                                                                                                            |
|-----|-------|------------|-----|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0   | (0)   | STRUCTURE  | 264 | DCMS_INAREA  | INPUT AREA                                                                                                                                             |
| 0   | (0)   | CHARACTER  | 6   | DCMS_ORDERS  | 3270 ORDERS ON INPUT                                                                                                                                   |
| 0   | (0)   | CHARACTER  | 1   | DCMS_AID     | ATTENTION ID                                                                                                                                           |
| 1   | (1)   | CHARACTER  | 2   | DCMS_CURSOR  | CURSOR ADDRESS                                                                                                                                         |
| 3   | (3)   | CHARACTER  | 1   | DCMS_SBA     | SET BUFFER ADDRESS ORDER                                                                                                                               |
| 4   | (4)   | CHARACTER  | 2   | DCMS_MODADDR | ADDRESS OF MODIFIED FIELD                                                                                                                              |
| 6   | (6)   | CHARACTER  | 256 | DCMS_ENTRYAR | ENTRY AREA FOR MCS/SMCS CONSOLES. HAS TO BE LARGE ENOUGH TO HANDLE LARGEST 1 LINE ENTRY AREA (255 COLUMNS) OR 2 LINE ENTRY AREA (128 COLUMNS PER LINE) |
| 262 | (106) | CHARACTER  | 2   | *            | FORCE ALIGNMENT                                                                                                                                        |
| 264 | (108) | CHARACTER  | 0   | *            | BOUNDARY ALIGNMENT                                                                                                                                     |

Offsets

| Dec | Hex | Type/Value | Len | Name (Dim)         | Description                 |
|-----|-----|------------|-----|--------------------|-----------------------------|
| 0   | (0) | STRUCTURE  | 7   | DCMS_WSFAREA       | WSF AREA                    |
| 0   | (0) | CHARACTER  | 1   | DCMS_WSF_ID        | WSF ID                      |
| 1   | (1) | CHARACTER  | 6   | DCMS_WSF           | 3270 WRITE STRUCTURED FIELD |
| 1   | (1) | CHARACTER  | 2   | DCMS_WSF_LEN       | LENGTH OF WSF AND DATA      |
| 3   | (3) | CHARACTER  | 2   | DCMS_WSF_OPERATION |                             |

## TDCM Constants

| Offsets |     |            |     |                  |                                                                                                               |
|---------|-----|------------|-----|------------------|---------------------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim)       | Description                                                                                                   |
| 5       | (5) | CHARACTER  | 1   | DCMS_WSF_CMDCODE | Values are: 4000 - 3270 data stream request 0380 - Erase/Reset screen and put device in alternate screen size |
| 6       | (6) | CHARACTER  | 1   | DCMS_WSF_WCC     | COMMAND CODES (EWA, WRITE ETC)<br>WRITE CONTROL CHARACTER                                                     |

| Offsets |       |            |     |                    |                       |
|---------|-------|------------|-----|--------------------|-----------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim)         | Description           |
| 1484    | (5CC) | STRUCTURE  | 12  | DCMS_SENSE         | Sense trace entry     |
| 1484    | (5CC) | CHARACTER  | 2   | DCMS_SENSE_RTNCD   | RTNCD from RPL        |
| 1486    | (5CE) | CHARACTER  | 2   | DCMS_SENSE_FDBK2   | FDBK2 from RPL        |
| 1488    | (5D0) | CHARACTER  | 2   | DCMS_SENSE_SSENSEI | System Sense          |
| 1490    | (5D2) | CHARACTER  | 2   | DCMS_SENSE_SSENSMI | System Sense Modifier |
| 1492    | (5D4) | CHARACTER  | 4   | DCMS_SENSE_USENSEI | User Sense            |

## TDCM Constants

| Len                                                  | Type    | Value | Name     | Description           |
|------------------------------------------------------|---------|-------|----------|-----------------------|
| Comment                                              |         |       |          |                       |
| CONTROL BLOCK VERSIONS - POSSIBLE VALUES OF DCMTVERN |         |       |          |                       |
| End of Comment                                       |         |       |          |                       |
| 1                                                    | DECIMAL | 6     | DCMTVRID | Current Version level |
| 1                                                    | DECIMAL | 1     | DCMTSP21 | OS/VS2 HBB2102 LEVEL  |
| 1                                                    | DECIMAL | 2     | DCMTS212 | OS/VS2 JBB2125 LEVEL  |
| 1                                                    | DECIMAL | 3     | DCMTS220 | OS/VS2 JBB2220 LEVEL  |
| 1                                                    | DECIMAL | 6     | DCMTS713 | JBB7713 Version Level |

| Comment                                                                                                                                                |         |     |                       |                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----|-----------------------|-----------------------------------------|
| The following constants are the lengths of each field (including trailing blanks) and are used to calculate the screen positions of all of the fields. |         |     |                       |                                         |
| End of Comment                                                                                                                                         |         |     |                       |                                         |
| 1                                                                                                                                                      | DECIMAL | 6   | DCM_LENGTH_UID_TEXT   | Length of LOGON text                    |
| 1                                                                                                                                                      | DECIMAL | 9   | DCM_LENGTH_PWRD_TEXT  | Length of PASSWORD text                 |
| 1                                                                                                                                                      | DECIMAL | 12  | DCM_LENGTH_CHGM_TEXT  | Length of OLD/NEW/NEW text              |
| 1                                                                                                                                                      | DECIMAL | 6   | DCM_LENGTH_GRP_TEXT   | Length of GROUP text                    |
| 1                                                                                                                                                      | DECIMAL | 9   | DCM_LENGTH_SECC_TEXT  | Length of SECLABEL text                 |
| 1                                                                                                                                                      | DECIMAL | 9   | DCM_LENGTH_UID_FIELD  | Length of userid field                  |
| 1                                                                                                                                                      | DECIMAL | 27  | DCM_LENGTH_PWRD_FIELD | Length of password field                |
| 1                                                                                                                                                      | DECIMAL | 9   | DCM_LENGTH_GRP_FIELD  | Length of group field                   |
| 1                                                                                                                                                      | DECIMAL | 9   | DCM_LENGTH_SECC_FIELD | Length of secclass field                |
| 4                                                                                                                                                      | DECIMAL | 136 | DCMRBFLN              | Length of command retrieve buffer entry |
| 4                                                                                                                                                      | DECIMAL | 18  | DCMDOMLN              | Length of DOM entry                     |

| Len | Type    | Value | Name            | Description          |
|-----|---------|-------|-----------------|----------------------|
| 4   | DECIMAL | 264   | DCMS_INAREA_LEN | LENGTH OF INPUT AREA |

**TDCM Cross Reference**

| Name                      | Hex Offset | Hex Value | Name      | Hex Offset | Hex Value |
|---------------------------|------------|-----------|-----------|------------|-----------|
| DCM_BUFFER_2_ENTRY_NEEDED | 11C        | 01        | DCMASKCR  | 20A        |           |
| DCM_CHGM_E_TEXT           | 58B        |           | DCMASKEN  | 208        |           |
| DCM_CHGM_TEXT             | 57C        |           | DCMASKLP  | 20B        |           |
| DCM_GRP_COL               | 57E        |           | DCMASYCD  | 12C        | 01        |
| DCM_GRP_E_COL             | 585        |           | DCMASYNC  | 127        |           |
| DCM_GRP_E_TEXT            | 58A        |           | DCMASYRT  | 12C        | 02        |
| DCM_GRP_END               | 57F        |           | DCMATI    | 5          |           |
| DCM_GRP_TEXT              | 57D        |           | DCMAWARN  | 44         |           |
| DCM_GRPEND_E_COL          | 586        |           | DCMAXLGN  | FC         |           |
| DCM_PWRD_COL              | 57B        |           | DCMBADLN  | F6         |           |
| DCM_PWRD_E_COL            | 584        |           | DCMBAINC  | F2         |           |
| DCM_PWRD_E_TEXT           | 589        |           | DCMBFLGS  | 418        |           |
| DCM_PWRD_TEXT             | 57A        |           | DCMBLENT  | 122        | 80        |
| DCM_REISSUE_IO            | 11C        | 02        | DCMBLINK  | 1          | 40        |
| DCM_REST_COL              | 582        |           | DCMBLUE   | 0          | 80        |
| DCM_REST_E_COL            | 588        |           | DCMBLWRL  | 122        | 40        |
| DCM_SECC_COL              | 581        |           | DCMBLWRR  | 122        | 20        |
| DCM_SECC_E_COL            | 587        |           | DCMBUFER  | 370        |           |
| DCM_SECC_E_TEXT           | 58C        |           | DCMBYTCT  | F8         |           |
| DCM_SECC_TEXT             | 580        |           | DCMCANCL  | 128        | 01        |
| DCM_UID_COL               | 579        |           | DCMCCOL   | 351        |           |
| DCM_UID_E_COL             | 583        |           | DCMCCWS   | 478        |           |
| DCM_UID_TEXT              | 578        |           | DCMCDLR1  | 12D        | 40        |
| DCMAAREA                  | 518        |           | DCMCDLR2  | 12D        | 20        |
| DCMADCHP                  | 48         |           | DCMCDLR3  | 12D        | 10        |
| DCMADDRL                  | 2C         |           | DCMCDLR4  | 12D        | 08        |
| DCMADMOD                  | 134        |           | DCMCDLR5  | 12D        | 04        |
| DCMADNUM                  | FA         |           | DCMCDSP3  | 12A        | 80        |
| DCMADOPN                  | 54         |           | DCMCHOPT  | 12B        | 10        |
| DCMADSEC                  | 28         |           | DCMCHPGM  | 480        |           |
| DCMAE                     | 129        | 01        | DCMCILLP  | 12C        | 08        |
| DCMAENTR                  | 40         |           | DCMCLEAR  | 128        | 02        |
| DCMAEORD                  | 284        |           | DCMCMRLL  | 12D        | 80        |
| DCMAIDSV                  | 340        |           | DCMCMMSG1 | 12B        |           |
| DCMAINS                   | 3C         |           | DCMCMMSG2 | 12C        |           |
| DCMAMTAB                  | 24         |           | DCMCMMSG3 | 12D        |           |
| DCMASBA                   | 127        | 10        | DCMCMMSG4 | 12E        |           |
| DCMASCRN                  | 30         |           | DCMCM2I   | 129        | 80        |
| DCMASDA                   | 127        | 40        | DCMCOLA   | 519        |           |
| DCMASEWA                  | 127        | 08        | DCMCOMAR  | 129        | 20        |
| DCMASIN                   | 127        | 20        | DCMCOMAU  | 128        | 10        |
| DCMASKCL                  | 210        |           | DCMCOMNM  | 128        | 04        |
| DCMASKCN                  | 209        |           | DCMCOMRD  | 128        | 08        |
|                           |            |           | DCMCOMRM  | 128        | 20        |
|                           |            |           | DCMCOM1   | 128        |           |
|                           |            |           | DCMCOM2   | 129        |           |
|                           |            |           | DCMCOM3   | 12A        |           |
|                           |            |           | DCMCOM4   | 130        |           |
|                           |            |           | DCMCON    | 10C        |           |
|                           |            |           | DCMCONF   | 355        |           |
|                           |            |           | DCMCONMS  | 35D        |           |
|                           |            |           | DCMCORLN  | 104        |           |
|                           |            |           | DCMCQUED  | 123        | 02        |
|                           |            |           | DCMCROW   | 350        |           |
|                           |            |           | DCMCRSDT  | 471        |           |
|                           |            |           | DCMCS     | 11C        |           |
|                           |            |           | DCMCSC    | 11C        | 80        |
|                           |            |           | DCMCSNM   | 45C        |           |

## TDCM Cross Reference

| Name     | Hex Offset | Hex Value | Name          | Hex Offset | Hex Value |
|----------|------------|-----------|---------------|------------|-----------|
| DCMCSO   | 11C        | 40        | DCMICUGP      | 418        | 08        |
| DCMCULNO | 125        |           | DCMICUPW      | 418        | 10        |
| DCMVCBIN | 14         |           | DCMICUSC      | 418        | 04        |
| DCMCXSVE | 50         |           | DCMIHIGH      | 2          | 40        |
| DCMDASID | C          |           | DCMINERR      | 120        | 02        |
| DCMDEL   | 10A        |           | DCMINLGN      | 6C         |           |
| DCMDELFC | 353        |           | DCMINLNM      | 2AD        |           |
| DCMDELMS | 35B        |           | DCMINNOR      | 120        | 04        |
| DCMDELNT | 12B        | 02        | DCMINORM      | 2          | 80        |
| DCMDELRI | 12C        | 04        | DCMINPUT      | 70         |           |
| DCMDIDLG | 418        | 40        | DCMINSC       | 121        | 01        |
| DCMDL    | 10E        |           | DCMINSSH      | 122        | 10        |
| DCMDLLA  | 264        |           | DCMINVLD      | 12F        | 40        |
| DCMDLL1A | 268        |           | DCMINVOP      | 12C        | 10        |
| DCMDLREQ | 12C        | 80        | DCMIOCM1      | 121        |           |
| DCMDLST  | 26C        |           | DCMIOCM2      | 122        |           |
| DCMDMCT1 | 278        |           | DCMIOCM3      | 123        |           |
| DCMDMID  | 5          |           | DCMIOCRD      | 122        | 02        |
| DCMDNLMA | 2AA        |           | DCMIONDX      | 131        |           |
| DCMDOMEN | 0          |           | DCMIOPRD      | 128        | 40        |
| DCMDOMID | 4          |           | DCMIORTN      | 134        |           |
| DCMDOMPK | 20         |           | DCMIORTN_COMM |            |           |
| DCMDORMI | 121        | 80        |               | 29C        |           |
| DCMDRSVD | E          |           | DCMIOUNQ      | 120        |           |
| DCMDSAUT | 11E        | 04        | DCMISRPQ      | 11C        | 20        |
| DCMDSAV  | 58         |           | DCMKPROC      | 123        | 01        |
| DCMDSCT1 | 270        |           | DCMKRPIP      | 12E        | 02        |
| DCMDSSCT | 274        |           | DCMLAMCT      | 290        |           |
| DCMDSTAT | 11E        |           | DCMLENTY      | 2B6        |           |
| DCMDSTNH | 11E        | 10        | DCMLGMSG      | 418        | 20        |
| DCMDSTNM | 11E        | 20        | DCMLGNTH      | F0         |           |
| DCMDSYID | 4          |           | DCMLINEN      | 124        |           |
| DCMDTBSY | 12D        | 01        | DCMLNCNT      | C          |           |
| DCMDTCB  | 0          |           | DCMLNNUM      | E          |           |
| DCMDTKAS | 8          |           | DCMLPENT      | 128        | 80        |
| DCMDTOKN | 8          |           | DCMLSCRN      | 34         |           |
| DCMDUSE  | 11F        | 80        | DCMLSSCT      | 280        |           |
| DCMELONG | 12B        | 08        | DCMMCSFL      | 6E         |           |
| DCMEMTYP | 419        |           | DCMMCSST      | 11F        |           |
| DCMENTL1 | 2AB        |           | DCMMCTCN      | 116        |           |
| DCMENTL2 | 2AC        |           | DCMMCTCO      | 0          |           |
| DCMENTPO | 2B2        |           | DCMMCTEN      | 0          |           |
| DCMERASE | 122        | 04        | DCMMCTHI      | 1          |           |
| DCMERPF  | 129        | 08        | DCMMCTIN      | 2          |           |
| DCMERSDT | 46A        |           | DCMMCTRV      | 3          |           |
| DCMEWAND | 123        | 20        | DCMMCTST      | 0          | 01        |
| DCMEWASP | 120        | 01        | DCMMFRFJ      | 352        | 40        |
| DCMEWAWC | 469        |           | DCMMFRFS      | 352        | 20        |
| DCMFENRC | 2B0        |           | DCMMFRFT      | 352        | 80        |
| DCMFENT2 | 22C        |           | DCMMFRFX      | 352        | 10        |
| DCMFIMCT | 28C        |           | DCMMFRMF      | 352        |           |
| DCMFLG1  | 4          |           | DCMMFRMJ      | 35A        | 40        |
| DCMFLLA  | 218        |           | DCMMFRMM      | 35A        |           |
| DCMFL1A  | 21C        |           | DCMMFRMS      | 35A        | 20        |
| DCMFLSCT | 220        |           | DCMMFRMT      | 35A        | 80        |
| DCMFMCT1 | 230        |           | DCMMFRMX      | 35A        | 10        |
| DCMFNLMA | 2A8        |           | DCMMLLA       | 248        |           |
| DCMFRSCN | 120        | 20        | DCMML1A       | 24C        |           |
| DCMFST1  | 224        |           | DCMMLSCT      | 250        |           |
| DCMFSSCT | 228        |           | DCMMMCT1      | 25C        |           |
| DCMGFLG  | F          |           | DCMMNLMA      | 2A9        |           |
| DCMGREEN | 0          | 10        | DCMMSCT1      | 254        |           |
| DCMGROUP | 43C        |           | DCMMSGAC      | 1          | 80        |
| DCMHNONE | 1          | 80        | DCMMSGAD      | 0          | 08        |
| DCMHOLD  | F          | 80        | DCMMSGAL      | FE         |           |

| Name           | Hex Offset | Hex Value | Name              | Hex Offset | Hex Value |
|----------------|------------|-----------|-------------------|------------|-----------|
| DCMMSGCL       | 1          | 01        | DCMOPTSG          | 11B        | 20        |
| DCMMSGCN       | 0          | 20        | DCMOPTST          | 11B        |           |
| DCMMSGCO       | 3          | 80        | DCMOPTTI          | 18         | 40        |
| DCMMSGCR       | 12C        | 20        | DCMOPTVR          | 11B        | 80        |
| DCMMSGCT       | 1          | 04        | DCMORDER          | 0          |           |
| DCMMSGC7       | 1          | 40        | DCMOTTMM          | 18         | 10        |
| DCMMSGEA       | 1          | 08        | DCMOUTPT          | 4          | 02        |
| DCMMSGHI       | 3          | 40        | DCMPACK           | 10         |           |
| DCMMSGIF       | 0          | 02        | DCMPFKAT          | 123        | 08        |
| DCMMSGIN       | 0          | 40        | DCMPFKC           | 464        |           |
| DCMMSGIT       | 3          | 20        | DCMPFKIP          | 12E        | 10        |
| DCMMSGOR       | 0          | 80        | DCMPFKKN          | 109        |           |
| DCMMSGPP       | 1          | 02        | DCMPFKLN          | 4C         |           |
| DCMMSGRD       | 0          | 04        | DCMPFKNA          | 12E        | 80        |
| DCMMSGR2       | 1          | 20        | DCMPFKND          | 12E        | 40        |
| DCMMSGST       | 0          | 01        | DCMPFKNM          | 108        |           |
| DCMMSGUA       | 1          | 10        | DCMPFKNO          | 12E        | 20        |
| DCMMSGWT       | 12B        | 80        | DCMPFKRC          | 465        |           |
| DCMSSCT        | 258        |           | DCMPINK           | 0          | 20        |
| DCMMWISS       | F          | 40        | DCMPOSCU          | 126        |           |
| DCMMYCMD       | 12F        | 80        | DCMPWORD          | 422        |           |
| DCMNCLN        | 184        |           | DCMQALEN          | 362        |           |
| DCMNCMD1       | 14C        |           | DCMQAPTR          | 288        |           |
| DCMNDL1        | 150        |           | DCMRBFRC          | 2CC        |           |
| DCMNDL2        | 154        |           | DCMRBUF           | 0          |           |
| DCMNDL3        | 158        |           | DCMRBUFA          | 2C0        |           |
| DCMNDL4        | 15C        |           | DCMRBUFB          | 4          |           |
| DCMNDOFF       | 366        |           | DCMRBUFC          | 2BC        |           |
| DCMNDSP1       | 140        |           | DCMRBUFE          | 2C8        |           |
| DCMNDSP2       | 144        |           | DCMRBUFF          | 0          |           |
| DCMNDSP3       | 148        |           | DCMRBUFR          | 2C4        |           |
| DCMNERR0       | 16C        |           | DCMRBUFT          | 8          |           |
| DCMNINT2       | 194        |           | DCMRDARM          | 120        | 10        |
| DCMNINT3       | 198        |           | DCMRDPFK          | 123        | 04        |
| DCMNINT5       | 1A0        |           | DCMRDRPQ          | 11C        | 10        |
| DCMNINT6       | 1A4        |           | DCMRED            | 0          | 40        |
| DCMNLPCR       | 17C        |           | DCMREPLC          | 129        | 10        |
| DCMNMODS       | 138        |           | DCMRETIO          | 11C        | 08        |
| DCMNMSG1       | 170        |           | DCMRMINC          | 100        |           |
| DCMNMSG2       | 174        |           | DCMRMTTI          | 18         | 01        |
| DCMNMSG3       | 178        |           | DCMRNUM           | 10F        |           |
| DCMNOPCL       | 180        |           | DCMRNUMD          | 113        |           |
| DCMNOPT1       | 160        |           | DCMRNUMF          | 357        |           |
| DCMNPFKT       | 12E        | 08        | DCMRNUMM          | 35F        |           |
| DCMNPFK1       | 164        |           | DCMRROWA          | 518        |           |
| DCMNPFK2       | 168        |           | DCMRQINC          | 12C        | 40        |
| DCMNPROC       | 13C        |           | DCMRTIME          | 110        |           |
| DCMNTIMR       | 18C        |           | DCMRTMED          | 114        |           |
| DCMNXTOR       | 34C        |           | DCMRTMED          | 114        |           |
| DCMOACRO       | 0          |           | DCMRTMED          | 114        |           |
| DCMOCTTI       | 18         | 02        | DCMRTMEM          | 360        |           |
| DCMOLHLD       | 12A        | 02        | DCMRTPFK          | 12A        | 40        |
| DCMOLUNV       | 12A        | 08        | DCMRVIDO          | 1          | 20        |
| DCMOOL_BYTCT   | 36C        |           | DCMS_AID          | 0          |           |
| DCMOOL_FRST    | 298        |           | DCMS_BLENT_CURPTR |            |           |
| DCMOOL_LINEN   | 368        |           |                   | 530        |           |
| DCMOOL_REFRESH |            |           | DCMS_BLENT_LEN    |            |           |
|                | 123        | 80        |                   | 534        |           |
| DCMOOL_SIB_PTR |            |           | DCMS_BLENTA_PTR   |            |           |
|                | 294        |           |                   | 52C        |           |
| DCMOOL_WRITE   | 122        | 08        | DCMS_CHGM_PMPT    |            |           |
| DCMOOMSS       | 11F        | 04        |                   | 574        |           |
| DCMOOSDS       | 11F        | 01        | DCMS_CURSOR       | 1          |           |
| DCMOPRLL       | 11B        | 10        | DCMS_ENTRYAR      | 6          |           |
| DCMOPTAD       | 11B        | 40        | DCMS_ERSET        | 53A        | 20        |
|                |            |           | DCMS ETF_EXIT     |            |           |

## TDCM Cross Reference

| Name                            | Hex Offset | Hex Value | Name                  | Hex Offset | Hex Value |
|---------------------------------|------------|-----------|-----------------------|------------|-----------|
|                                 | 53A        | 10        |                       | 5D4        |           |
| DCMS_FLAGS                      | 53A        |           | DCMS_UID_AREA         |            |           |
| DCMS_FLAGS2                     | 53B        |           |                       | 544        |           |
| DCMS_GRP_AREA                   |            |           | DCMS_UID_PMPT         |            |           |
|                                 | 554        |           |                       | 564        |           |
| DCMS_GRP_PMPT                   |            |           | DCMS_UID_12BIT        |            |           |
|                                 | 56C        |           |                       | 54A        |           |
| DCMS_GRP_12BIT                  |            |           | DCMS_UID_14BIT        |            |           |
|                                 | 55A        |           |                       | 548        |           |
| DCMS_GRP_14BIT                  |            |           | DCMS_WSF              | 1          |           |
|                                 | 558        |           | DCMS_WSF_CMDCODE      |            |           |
| DCMS_INAREA                     | 0          |           |                       | 5          |           |
| DCMS_INAREA_PTR                 |            |           | DCMS_WSF_ID           | 0          |           |
|                                 | 520        |           | DCMS_WSF_LEN          | 1          |           |
| DCMS_LAST_SENSE                 |            |           | DCMS_WSF_OPERATION    |            |           |
|                                 | 5CC        |           |                       | 3          |           |
| DCMS_LOGON_PROMPT_IN_ENTRY_AREA |            |           | DCMS_WSF_WCC          | 6          |           |
|                                 | 53A        | 04        | DCMS_WSFA_CURPTR      |            |           |
| DCMS_LU2                        | 53A        | 08        |                       | 524        |           |
| DCMS_MAX_WSF_LEN                |            |           | DCMS_WSFA_LEN         |            |           |
|                                 | 53C        |           |                       | 528        |           |
| DCMS_MODADDR                    | 4          |           | DCMS_WSFA_PTR         |            |           |
| DCMS_NBB_REQUIRED               |            |           |                       | 51C        |           |
|                                 | 53B        | 40        | DCMS_WSFAREA          | 0          |           |
| DCMS_ORDERS                     | 0          |           | DCMSADAT              | 6          |           |
| DCMS_OUTPUT_SUSPENDED           |            |           | DCMSADCN              | 218        |           |
|                                 | 53B        | 80        | DCMSAHA               | 5          |           |
| DCMS_PWRD_AREA                  |            |           | DCMSAHT               | 4          |           |
|                                 | 54C        |           | DCMSAO                | 3          |           |
| DCMS_PWRD_PMPT                  |            |           | DCMSARST              | 8          |           |
|                                 | 568        |           | DCMSA1                | 3          |           |
| DCMS_PWRD_12BIT                 |            |           | DCMSA2                | 7          |           |
|                                 | 552        |           | DCMSBA                | 0          |           |
| DCMS_PWRD_14BIT                 |            |           | DCMSBAA1              | 1          |           |
|                                 | 550        |           | DCMSBAA2              | 2          |           |
| DCMS_RE_RECEIVE                 |            |           | DCMSBAO               | 0          |           |
|                                 | 53A        | 40        | DCMSCCLS              | 444        |           |
| DCMS_RECV_ISSUED                |            |           | DCMSCRW               | 2B4        |           |
|                                 | 53A        | 80        | DCMSCTA               | 0          |           |
| DCMS_REISSUE_CNT                |            |           | DCMSCTA1              | 0          |           |
|                                 | 538        |           | DCMSCTA2              | 1          |           |
| DCMS_RU_SIZE                    | 540        |           | DCMSCTA3              | 2          |           |
| DCMS_SBA                        | 3          |           | DCMSCTA4              | 3          |           |
| DCMS_SECC_AREA                  |            |           | DCMSCTC               | 0          |           |
|                                 | 55C        |           | DCMSCTCN              | 102        |           |
| DCMS_SECC_PMPT                  |            |           | DCMSCTC1              | 0          |           |
|                                 | 570        |           | DCMSCTC2              | 1          |           |
| DCMS_SECC_12BIT                 |            |           | DCMSEC_NEEDS_REFORMAT |            |           |
|                                 | 562        |           |                       | 0          | 08        |
| DCMS_SECC_14BIT                 |            |           | DCMSECBL              | 0          | 10        |
|                                 | 560        |           | DCMSECCL              | 0          | 80        |
| DCMS_SENSE                      | 5CC        |           | DCMSECDD              | 0          | 02        |
| DCMS_SENSE_FDBK2                |            |           | DCMSECDL              | 0          | 20        |
|                                 | 5CE        |           | DCMSECLL              | 0          | 40        |
| DCMS_SENSE_RTNCN                |            |           | DCMSECST              | 0          | 01        |
|                                 | 5CC        |           | DCMSEG                | 10D        |           |
| DCMS_SENSE_SSENSEI              |            |           | DCMSEGDF              | 112        |           |
|                                 | 5D0        |           | DCMSEGFC              | 356        |           |
| DCMS_SENSE_SSENSMI              |            |           | DCMSEGMS              | 35E        |           |
|                                 | 5D2        |           | DCMSEPLN              | 2          | 40        |
| DCMS_SENSE_TRACE                |            |           | DCMSFE                | 3          |           |
|                                 | 590        |           | DCMSFECA              | 8          |           |
| DCMS_SENSE_TRACE_2_MOVE         |            |           | DCMSFEFT              | 7          |           |
|                                 | 59C        |           | DCMSFEFA              | 6          |           |
| DCMS_SENSE_USENSEI              |            |           | DCMSFEFT              | 5          |           |

## TDCM Cross Reference

| Name           | Hex<br>Offset | Hex<br>Value | Name      | Hex<br>Offset | Hex<br>Value |
|----------------|---------------|--------------|-----------|---------------|--------------|
| DCMSFEHA       | A             |              | DCMWRWRN  | 121           | 20           |
| DCMSFEHT       | 9             |              | DCMWTBUF  | 38            |              |
| DCMSFEN        | 4             |              | DCMWTINT  | 8             |              |
| DCMSFEO        | 3             |              | DCMW2250  | 120           | 08           |
| DCMSKPA1       | 211           |              | DCMXINT1  | 12A           | 10           |
| DCMSKPA3       | 212           |              | DCMYELLOW | 0             | 04           |
| DCMSKPF1       | 20C           |              |           |               |              |
| DCMSKPF2       | 20D           |              |           |               |              |
| DCMSKPF3       | 20E           |              |           |               |              |
| DCMSKPF4       | 20F           |              |           |               |              |
| DCMSKSRQ       | 213           |              |           |               |              |
| DCMSOUND       | 121           | 40           |           |               |              |
| DCMSPLIT       | 129           | 40           |           |               |              |
| DCMSSCTL       | F4            |              |           |               |              |
| DCMSTEX        | 12B           | 20           |           |               |              |
| DCMSTOFF       | 364           |              |           |               |              |
| DCMSTRT        | 0             |              |           |               |              |
| DCMSVC34       | 12F           |              |           |               |              |
| DCMSWAPT       | 11C           | 04           |           |               |              |
| DCMTABND       | 12E           | 04           |           |               |              |
| DCMTASYN       | 18            | 04           |           |               |              |
| DCMTEST        | 132           |              |           |               |              |
| DCMTEST1       | 11D           | 02           |           |               |              |
| DCMTEST2       | 11D           | 01           |           |               |              |
| DCMTIMER       | 18            | 80           |           |               |              |
| DCMTIMES       | 18            |              |           |               |              |
| DCMTLEN        | 33C           |              |           |               |              |
| DCMTRACE       | 1AC           |              |           |               |              |
| DCMTRAC2       | 1AE           |              |           |               |              |
| DCMTRDCM       | 348           |              |           |               |              |
| DCMTREN        | 206           |              |           |               |              |
| DCMTREN1       | 206           |              |           |               |              |
| DCMTREN2       | 207           |              |           |               |              |
| DCMTURQ        | 0             | 08           |           |               |              |
| DCMTVERN       | 19            |              |           |               |              |
| DCMTYPE1       | 12F           | 20           |           |               |              |
| DCMUNDER       | 1             | 10           |           |               |              |
| DCMUNMSG       | 12B           | 40           |           |               |              |
| DCMUSRID       | 41A           |              |           |               |              |
| DCMUTILA       | 11D           | 80           |           |               |              |
| DCMUTILB       | 11D           | 40           |           |               |              |
| DCMUTILC       | 11D           | 20           |           |               |              |
| DCMUTILD       | 11D           | 10           |           |               |              |
| DCMUTILE       | 11D           | 08           |           |               |              |
| DCMUTILF       | 11D           | 04           |           |               |              |
| DCMUTILT       | 11D           |              |           |               |              |
| DCMVLPFK       | 12A           | 20           |           |               |              |
| DCMWCC         | 468           |              |           |               |              |
| DCMWCC_RESTORE |               |              |           |               |              |
|                | 475           |              |           |               |              |
| DCMWHITE       | 0             | 02           |           |               |              |
| DCMWLGPR       | 418           | 80           |           |               |              |
| DCMWORK        | 44C           |              |           |               |              |
| DCMWORKA       | 44C           |              |           |               |              |
| DCMWORKB       | 450           |              |           |               |              |
| DCMWORKC       | 454           |              |           |               |              |
| DCMWORKD       | 458           |              |           |               |              |
| DCMWQEXP       | 6C            |              |           |               |              |
| DCMWRASY       | 122           | 01           |           |               |              |
| DCMWRCDL       | 12B           | 04           |           |               |              |
| DCMWRENT       | 121           | 02           |           |               |              |
| DCMWRINS       | 121           | 04           |           |               |              |
| DCMWRMSG       | 121           | 10           |           |               |              |
| DCMWRPAR       | 121           | 08           |           |               |              |
| DCMWRPFK       | 123           | 10           |           |               |              |





## TEXTUNIT Heading Information

**Common Name:** Dynamic Allocation Text Unit Pointer List  
**Macro ID:** IEFZB4D1  
**DSECT Name:** TXTUPLST, TXTUPELM, TEXTUNIT, TEXTUFLD  
**Owning Component:** Allocation/Unallocation (SC1B4)  
**Eye-Catcher ID:** N/A  
**Offset:** N/A  
**Storage Attributes:** Subpool: N/A  
 Key: N/A  
 Residency: N/A  
**Size:** 18 bytes  
**Created by:** Caller of SVC 99  
**Pointed to by:** S99TXTPP of SVC 99 parameter list  
**Serialization:** N/A  
**Function:** Provides mapping for text unit pointer list.

### TEXTUNIT Map

| Offsets |     |            |     |              |                           |
|---------|-----|------------|-----|--------------|---------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim)   | Description               |
| 0       | (0) | STRUCTURE  | 4   | TXTUPLST (*) | TEXT UNIT POINTER LIST    |
| 0       | (0) | ADDRESS    | 4   | TXTUNITP     | TEXT UNIT POINTER         |
|         |     | 1... ....  |     | TXTUPEND     | ON FOR LAST TEXT UNIT PTR |

| Offsets |     |            |     |            |                                        |
|---------|-----|------------|-----|------------|----------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                            |
| 0       | (0) | STRUCTURE  | 4   | TXTUPELM   | ONE ELEMENT IN TEXT UNIT POINTER LIST  |
| 0       | (0) | ADDRESS    | 4   | TXTPLENT   | ONE TEXT UNIT POINTER                  |
|         |     | 1... ....  |     | TXTPLEND   | ON WHEN THIS IS LAST TEXT UNIT POINTER |

| Offsets |     |            |     |            |                             |
|---------|-----|------------|-----|------------|-----------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                 |
| 0       | (0) | STRUCTURE  | *   | TEXTUNIT   | TEXT UNIT                   |
| 0       | (0) | CHARACTER  | 2   | TEXTUKEY   | KEY                         |
| 2       | (2) | SIGNED     | 2   | TEXTUNUM   | NUMBER OF PARAMETERS        |
| 4       | (4) | CHARACTER  | *   | TEXTUENT   | TEXT ENTRY OF LENGTH PARM   |
| 4       | (4) | SIGNED     | 2   | TEXTULNG   | LENGTH OF 1ST(OR ONLY) PARM |
| 6       | (6) | CHARACTER  | *   | TEXTUPAR   | 1ST (OR ONLY) PARAMETER     |

| Offsets |     |            |     |            |                           |
|---------|-----|------------|-----|------------|---------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description               |
| 0       | (0) | STRUCTURE  | *   | TEXTUFLD   | TEXT ENTRY OF LENGTH+PARM |
| 0       | (0) | SIGNED     | 2   | TEXTULEN   | LENGTH OF FOLLOWING PARM  |
| 2       | (2) | CHARACTER  | *   | TEXTUPRM   | PARAMETER                 |

## TEXTUNIT Cross Reference

### TEXTUNIT Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| TEXTUENT | 4             |              |
| TEXTUFLD | 0             |              |
| TEXTUKEY | 0             |              |
| TEXTULEN | 0             |              |
| TEXTULNG | 4             |              |
| TEXTUNIT | 0             |              |
| TEXTUNUM | 2             |              |
| TEXTUPAR | 6             |              |
| TEXTUPRM | 2             |              |
| TXTPLEND | 0             | 80           |
| TXTPLENT | 0             |              |
| TXTUNITP | 0             |              |
| TXTUPELM | 0             |              |
| TXTUPEND | 0             | 80           |
| TXTUPLST | 0             |              |

## TFWA Heading Information

|                            |                                                                                                                                                                                                                                                                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Common Name:</b>        | System trace formatter work area (TFWA)                                                                                                                                                                                                                          |
| <b>Macro ID:</b>           | IHATFWA                                                                                                                                                                                                                                                          |
| <b>DSECT Name:</b>         | TFWA                                                                                                                                                                                                                                                             |
| <b>Owning Component:</b>   | System trace (SC142)                                                                                                                                                                                                                                             |
| <b>Eye-Catcher ID:</b>     | TFWA                                                                                                                                                                                                                                                             |
|                            | Offset: 0                                                                                                                                                                                                                                                        |
|                            | Length: 4                                                                                                                                                                                                                                                        |
| <b>Storage Attributes:</b> | Subpool: 229 when IEAVETFC is called by SNAP. 0 when IEAVETFC is caller by IPCS.                                                                                                                                                                                 |
|                            | Key: 0 when IEAVETFC is called by SNAP. Key of caller when IEAVETFC is called by IPCS.                                                                                                                                                                           |
| <b>Size:</b>               | 216 bytes                                                                                                                                                                                                                                                        |
| <b>Created by:</b>         | IEAVETFC - System trace table formatter controller<br>INITIALIZATION:<br>The creator of the control block must initialize TFWAID with the acronym 'TFWA' and TFWALEVL with the constant TFWACLVL.                                                                |
| <b>Pointed to by:</b>      | The TFWA is part of the IEAVETFC dynamic workarea. For other routines it is an input parameter.                                                                                                                                                                  |
| <b>Serialization:</b>      | N/A                                                                                                                                                                                                                                                              |
| <b>Function:</b>           | Describe the system trace formatter work area (TFWA) in which data critical to the formatting process is kept. The TFWA is created by the trace table formatter controller (IEAVETFC) and is passed to all modules which execute under the formatter controller. |

## TFWA Map

| Offsets |      |            |     |            |                                                                              |
|---------|------|------------|-----|------------|------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                  |
| 0       | (0)  | STRUCTURE  | 216 | TFWA       | TRACE FORMATTER WORK AREA.                                                   |
| 0       | (0)  | CHARACTER  | 4   | TFWAID     | TFWA ACRONYM.                                                                |
| 4       | (4)  | BITSTRING  | 1   | TFWALEVL   | TFWA LEVEL NUMBER.                                                           |
| 5       | (5)  | UNSIGNED   | 1   | TFWANCPU   | NUMBER OF PROCESSORS REPRESENTED IN THE TRACE TABLE.                         |
| 6       | (6)  | SIGNED     | 2   | TFWACURP   | CURRENT PROCESSOR NUMBER.                                                    |
| 8       | (8)  | ADDRESS    | 4   | TFWAADPL   | POINTER TO SNAP/PRDMP PARMLIST (MAPPED BY IHAABDPL).                         |
| 12      | (C)  | SIGNED     | 2   | TFWAASID   | TRACE ADDRESS SPACE ASID.                                                    |
| 14      | (E)  | SIGNED     | 2   | TFWALLOP   | LINES-LEFT-ON-PAGE COUNT.                                                    |
| 16      | (10) | ADDRESS    | 4   | TFWACURB   | POINTER TO THE CURRENT TRACE OUTPUT BUFFER.                                  |
| 20      | (14) | SIGNED     | 4   | TFWALJFE   | LENGTH OF THE JUST-FILTERED OR FORMATTED TTE.                                |
| 24      | (18) | ADDRESS    | 4   | TFWATTCH   | ADDRESS OF TTCH TO FORMAT.                                                   |
| 28      | (1C) | ADDRESS    | 4   | TFWAWAEF   | ADDRESS OF DYNAMIC WORKAREA OF LENGTH LENDETEF TO BE USED BY IEAVETEF.       |
| 32      | (20) | ADDRESS    | 4   | TFWAWAFA   | ADDRESS OF DYNAMIC WORKAREA OF LENGTH LENDETF A TO BE USED BY IEAVETFA.      |
| 36      | (24) | ADDRESS    | 4   | TFWAWAIF   | ADDRESS OF 4K DYNAMIC WORKAREA TO BE USED BY INDIVIDUAL FORMATTING ROUTINES. |
| 40      | (28) | CHARACTER  | 36  | TFWAFP     | FLAGS AND FOOTPRINTS FOR VRA.                                                |
| 40      | (28) | BITSTRING  | 1   | TFWAFLG1   | FLAG BYTE 1.                                                                 |
|         |      | 1... ....  |     | TFWAALL    | FORMAT TTES FOR ALL ASIDS.                                                   |
|         |      | .1.. ....  |     | TFWACUR    | FORMAT TTES FOR CURRENT ASID.                                                |
|         |      | ..1. ....  |     | TFWAFAS    | FILTER TTES USING AN ASIDLIST.                                               |
|         |      | ...1 ....  |     | TFWASNAP   | SNAP DUMP REQUEST.                                                           |

## TFWA Map

| Offsets |      |            |     |            |                                                                                                                                    |
|---------|------|------------|-----|------------|------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                        |
|         |      | .... 1...  |     | TFWAPDSV   | SVCDUMP/SYSMDUMP (IPCS) REQUEST.                                                                                                   |
|         |      | .... .1..  |     | TFWAPDSA   | STAND-ALONE DUMP (IPCS) REQUEST.                                                                                                   |
|         |      | .... ..1.  |     | TFWABR     | FORMAT BRANCH TTES.                                                                                                                |
|         |      | .... ...1  |     | TFWAUSRN   | EXECUTING USRN FORMAT ROUTINE.                                                                                                     |
| 41      | (29) | BITSTRING  | 1   | TFWAFLG2   | FLAG BYTE 2.                                                                                                                       |
|         |      | 1... ....  |     | TFWAMAIN   | FORMATTER IS IN MAIN LOOP.                                                                                                         |
|         |      | .1.. ....  |     | TFWADONE   | ALL TRACE DATA IS FORMATTED.                                                                                                       |
|         |      | ..1. ....  |     | TFWAPTE1   | THE FIRST TTE HAS NOT YET BEEN PRINTED.                                                                                            |
|         |      | ...1 ....  |     | TFWAATRC   | ASID TRACE FILTERING ROUTINE HAS PRODUCED THE CURRENT TTCH                                                                         |
|         |      | .... 1...  |     | TFWASYNO   | FORMATTER INITIALIZATION HAS FAILED. THEREFORE,CALL IEAVETVP SYNTAX CHECK THE TRACE VERB IF RUNNING UNDER IPCS.                    |
|         |      | .... .1..  |     | TFWADAAP   | DATA AVAILABLE FOR ALL PROCESSORS UNLESS TFWAEOD1 IS ON.                                                                           |
|         |      | .... ..1.  |     | TFWAEOD1   | END OF DATA ENCOUNTERED ON ONE OR MORE PROCESSORS.                                                                                 |
|         |      | .... ...1  |     | TFWAFBSG   | EXECUTING ITRFBSG ENTRY POINT.                                                                                                     |
| 42      | (2A) | BITSTRING  | 1   | TFWAFFP01  | EXECUTION TRACE FOOTPRINTS.                                                                                                        |
|         |      | 1... ....  |     | TFWAETVP   | ENTERED IEAVETVP.                                                                                                                  |
|         |      | .1.. ....  |     | TFWAETNP   | ENTERED IEAVETNP.                                                                                                                  |
|         |      | ..1. ....  |     | TFWAETPW   | ENTERED IEAVETPW.                                                                                                                  |
|         |      | ...1 ....  |     | TFWAETRW   | EXECUTING IEAVETRW.                                                                                                                |
|         |      | .... 1...  |     | TFWAETEF   | EXECUTING IEAVETEF.                                                                                                                |
|         |      | .... .1..  |     | TFWAETFA   | EXECUTING IEAVETFA ENTRY POINT.                                                                                                    |
|         |      | .... ..1.  |     | TFWAETPB   | EXECUTING IEAVETPB ENTRY POINT.                                                                                                    |
|         |      | .... ...1  |     | TFWAFPR    | EXECUTING ITRFPR FORMATTER                                                                                                         |
| 43      | (2B) | BITSTRING  | 1   | TFWAFFP02  | EXECUTION TRACE FOOTPRINTS.                                                                                                        |
|         |      | 1... ....  |     | TFWAFHEX   | EXECUTING ITRFHEX ENTRY POINT.                                                                                                     |
|         |      | .1.. ....  |     | TFWAFEXP   | EXECUTING ITRFEXP ENTRY POINT.                                                                                                     |
|         |      | ..1. ....  |     | TFWADEFU   | EXECUTING ITRFDEFU ENTRY POINT.                                                                                                    |
|         |      | ...1 ....  |     | TFWAEXPL   | EXECUTING AN EXPLICIT TTE FORMATTER.                                                                                               |
|         |      | .... 1...  |     | TFWAFBR    | EXECUTING ITRFBR FORMATTER.                                                                                                        |
|         |      | .... .1..  |     | TFWAFPC    | EXECUTING ITRFPC FORMATTER.                                                                                                        |
|         |      | .... ..1.  |     | TFWAFPT    | EXECUTING ITRFPT FORMATTER.                                                                                                        |
|         |      | .... ...1  |     | TFWASSAR   | EXECUTING ITRFSSAR FORMATTER.                                                                                                      |
| 44      | (2C) | BITSTRING  | 4   | TFWAFFPC   | IEAVETFC EXECUTION TRACE (SEE FOOTETFC DECLARE IN IEAVETFC).                                                                       |
| 48      | (30) | BITSTRING  | 4   | TFWAFPEF   | IEAVETEF EXECUTION TRACE (SEE FOOTETEF DECLARE IN IEAVETEF).                                                                       |
| 52      | (34) | BITSTRING  | 4   | TFWAFVVP   | IEAVETVP EXECUTION TRACE (SEE FOOTETVP DECLARE IN IEAVETVP).                                                                       |
| 56      | (38) | BITSTRING  | 4   | TFWAFPNP   | IEAVETNP EXECUTION TRACE (SEE FOOTETNP DECLARE IN IEAVETNP).                                                                       |
| 60      | (3C) | BITSTRING  | 4   | TFWAFPPW   | IEAVETPW EXECUTION TRACE (SEE FOOTETPW DECLARE IN IEAVETPW).                                                                       |
| 64      | (40) | BITSTRING  | 4   | TFWAFPRW   | IEAVETRW EXECUTION TRACE (SEE FOOTETRW DECLARE IN IEAVETRW).                                                                       |
| 68      | (44) | BITSTRING  | 4   | TFWAFPPFA  | IEAVETFA EXECUTION TRACE (SEE FOOTETFA DECLARE IN IEAVETFA).                                                                       |
| 72      | (48) | BITSTRING  | 4   | TFWAFPIF   | INDIVIDUAL EXPLICIT FORMATTER EXECUTION TRACE. IF USED, THERE WILL BE A DECLARE DEFINED ON TFWAFPOA.                               |
| 76      | (4C) | ADDRESS    | 4   | TFWAASDL   | ADDRESS OF ASIDLIST.                                                                                                               |
| 80      | (50) | SIGNED     | 4   | TFWAASLN   | LENGTH OF GETMAINED ASIDLIST. A NON-ZERO VALUE INDICATES THAT AN ASIDLIST WAS GETMAINED.                                           |
| 84      | (54) | SIGNED     | 2   | TFWAASLL   | COUNT OF ASIDLIST RANGES BEFORE OPTIMIZATION.                                                                                      |
| 86      | (56) | SIGNED     | 2   | TFWAASCT   | COUNT OF ASIDLIST RANGES AFTER OPTIMIZATION.                                                                                       |
| 88      | (58) | UNSIGNED   | 1   | TFWANREG   | NUMBER OF REGISTERS IN THE CURRENT TTE.                                                                                            |
| 89      | (59) | UNSIGNED   | 1   | TFWAGMSP   | GETMAIN SUBPOOL TO BE USED.                                                                                                        |
| 90      | (5A) | CHARACTER  | 2   | TFWAUSRD   | USRN FORMATTER ROUTINE DISABLEMENT ARRAY. BIT N ON MEANS THE USRN FORMATTER ROUTINE IS DISABLED AND ITRFDEFU WILL EXECUTE INSTEAD. |

| Offsets |      |            |     |            |                                                                                     |
|---------|------|------------|-----|------------|-------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                         |
| 92      | (5C) | UNSIGNED   | 4   | TFWANBSP   | NUMBER OF BUFFER SECTIONS (TTCHBS) OF TTCH PER 4K PAGE.                             |
| 96      | (60) | SIGNED     | 2   | TFWAMXMP   | MAXIMUM NUMBER OF PROCESSORS IN THE DUMPED SYSTEM.                                  |
| 98      | (62) | SIGNED     | 2   | TFWASDHA   | HASID AT THE TIME OF THE DUMP.                                                      |
| 100     | (64) | ADDRESS    | 4   | TFWADEVA   | ADDRESS OF DEVICES ARRAY USED FOR I/O AND SCH TTE FILTERING.                        |
| 104     | (68) | CHARACTER  | 24  | TFWAMLVL   | MODID INFORMATION FOR THE MODULE IN CONTROL.                                        |
| 104     | (68) | CHARACTER  | 8   | TFWAMODN   | THE NAME OF THE MODULE (CSECT) CURRENTLY IN CONTROL.                                |
| 112     | (70) | CHARACTER  | 16  | TFWAMDAT   | THE DATE AND LEVEL NUMBER OF THE MODULE CURRENTLY IN CONTROL.                       |
| 128     | (80) | SIGNED     | 4   | TFWATCHL   | LENGTH OF SNAP TTCH.                                                                |
| 132     | (84) | BITSTRING  | 3   | TFWARSV0   | RESERVED.                                                                           |
| 135     | (87) | CHARACTER  | 9   | TFWAJOB    | FULL JOB INITIATION TIMESTAMP VALUE.                                                |
| 135     | (87) | UNSIGNED   | 1   | TFWAJT0F   | JOB START TIMESTAMP OVERFLOW (TIMER WRAP-AROUND) VALUE.                             |
| 136     | (88) | CHARACTER  | 8   | TFWAJTIM   | JOB INITIATION TIMESTAMP FOR THE CURRENT ADDRESS SPACE (WHOSE ASID IS IN ADPLASID). |
| 136     | (88) | BITSTRING  | 4   | TFWAJT1    | HIGH ORDER WORD (MULTIPLES OF 1.048 SECONDS).                                       |
| 140     | (8C) | BITSTRING  | 4   | TFWAJT2    | LOW ORDER WORD OF TFWAJTIM.                                                         |
| 144     | (90) | ADDRESS    | 4   | TFWAWAI2   | ADDRESS OF 512 BYTE WORK AREA USED BY THE USER FORMAT ROUTINES, ITRFN07F.           |
| 148     | (94) | ADDRESS    | 4   | TFWAPS     | ADDRESS OF PROCESSOR DATA SECTIONS.                                                 |
| 152     | (98) | ADDRESS    | 2   | TFWADCPU   | DUMPING CPU ADDRESS                                                                 |
| 154     | (9A) | ADDRESS    | 2   | TFWASCPU   | Selected CPU address                                                                |
| 156     | (9C) | ADDRESS    | 4   | TFWACMOD   | ADDRESS OF TOD CONVERTER MODULE BLSXTOD                                             |

Comment

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 Note: TFWAZONE consolidates CVTLDT0 and CVTLSD0 adjustments, as appropriate, to convert the TOD clock values in the system trace to the zone specified by the user of the IPCS SYSTRACE subcommand.  
 -----

End of Comment

|     |      |            |   |          |                                                                          |
|-----|------|------------|---|----------|--------------------------------------------------------------------------|
| 160 | (A0) | BITSTRING  | 8 | TFWAZONE | TOD adjustment for GMT or local time zones                               |
| 168 | (A8) | BITSTRING  | 1 | TFWACFLG | TIMESTAMP CONVERSION FLAGS                                               |
|     |      | 1... ....  |   | TFWAGMT  | CONVERT TIMESTAMP TO GREENWICH MEAN TIME.                                |
|     |      | .1... .... |   | TFWALCL  | CONVERT TIMESTAMP TO LOCAL TIME.                                         |
|     |      | ..1. ....  |   | TFWA1CPU | Format for only one CPU                                                  |
|     |      | ...1 ....  |   | TFWATLST | SYSTRACE TTCH(LIST) option                                               |
|     |      | .... 1111  |   | *        | RESERVED                                                                 |
| 169 | (A9) | CHARACTER  | 1 | TFWAFLG4 | MORE FLAGS                                                               |
|     |      | 1... ....  |   | TFWAMODE | Format MODE TTEs                                                         |
| 170 | (AA) | SIGNED     | 2 | *        | RESERVED.                                                                |
| 172 | (AC) | ADDRESS    | 4 | TFWACOPA | ADDRESS OF COPROCESSOR DEVICES ARRAY USED FOR I/O AND SCH TTE FILTERING. |
| 176 | (B0) | ADDRESS    | 4 | TFWATCBL | -> BLRIDENT PDE chain for TCB addresses                                  |
| 180 | (B4) | ADDRESS    | 4 | TFWAWEBL | -> BLRIDENT PDE chain for WEB addresses                                  |

Comment

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 Note: TFWATOD0 and TFWATOD9 have been adjusted from the time zone specified by the user to TOD clock values directly comparable to the time stamps in the system trace.  
 -----

End of Comment

|     |      |           |   |          |                                      |
|-----|------|-----------|---|----------|--------------------------------------|
| 184 | (B8) | CHARACTER | 9 | TFWATOD0 | SYSTRACE - First time stamp eligible |
|-----|------|-----------|---|----------|--------------------------------------|

## TFWA Map

| Offsets |      |            |     |            |                                     |
|---------|------|------------|-----|------------|-------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                         |
| 193     | (C1) | CHARACTER  | 9   | TFWATOD9   | SYSTRACE - Last time stamp eligible |
| 202     | (CA) | CHARACTER  | 2   | TFWARSV2   | Reserved.                           |
| 204     | (CC) | ADDRESS    | 4   | TFWASPD    | -> SYSTRACE subcommand PDL          |
| 208     | (D0) | ADDRESS    | 4   | TFWAPTNP   | -> IEAVETNP                         |
| 212     | (D4) | ADDRESS    | 4   | TFWAPTBP   | -> IEAVETPB                         |
| 216     | (D8) | CHARACTER  | 0   | TFWAEND    | END OF TFWA.                        |

| Offsets |      |            |     |              |                                                                                                                                                                                                                    |
|---------|------|------------|-----|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                                                                                                                        |
| 0       | (0)  | STRUCTURE  | 128 | TFWAPDS (16) | PROCESSOR DATA SECTION.                                                                                                                                                                                            |
| 0       | (0)  | CHARACTER  | 2   | TFWAPRID     | EBCDIC PHYSICAL PROCESSOR ID.                                                                                                                                                                                      |
| 2       | (2)  | SIGNED     | 2   | TFWACPPA     | PHYSICAL PROCESSOR ID.                                                                                                                                                                                             |
| 4       | (4)  | BITSTRING  | 1   | TFWAFLG3     | FLAG BYTE 3.                                                                                                                                                                                                       |
|         |      | 1... ....  |     | TFWATTOB     | THE CURRENT TBVT WAS OBTAINED: IF ON, VIA VIRTUAL ADDRESS FROM THE TOB. IF OFF, VIA VIRTUAL ADDRESS FROM THE PSA.                                                                                                  |
|         |      | .1.. ....  |     | TFWAFIMP     | IMPLICIT TRACE ENTRIES MAY BE FORMATTED FOR THIS PROCESSOR. (ON WHEN TRFMFAS IS OFF OR WHEN THE LAST EXPLICIT TTE FOR THE PROCESSOR WAS FORMATTED.)                                                                |
|         |      | ..1. ....  |     | TFWACTTS     | CURRENT TTE TO BE FILTERED OR FORMATTED IS TIMESTAMPED.                                                                                                                                                            |
|         |      | ...1 ....  |     | TFWAEOTD     | END-OF-TRACE-DATA REACHED FOR THIS PROCESSOR.                                                                                                                                                                      |
|         |      | .... 1...  |     | TFWANOC      | SYSTRACE - Suppress CPU                                                                                                                                                                                            |
|         |      | .... .1..  |     | TFWAWUOK     | TFWAWUAD is ready to be used for work unit filtering                                                                                                                                                               |
|         |      | .... ..11  |     | *            | Reserved                                                                                                                                                                                                           |
| 5       | (5)  | BITSTRING  | 1   | TFWAPFG1     | PROCESSOR FLAGS (THIS IS A COPY OF TOBPF1 FOR THE PROCESSOR).                                                                                                                                                      |
|         |      | 1... ....  |     | TFWAP TSA    | PROCESSOR TRACE STRUCTURE IS AVAILABLE.                                                                                                                                                                            |
| 6       | (6)  | CHARACTER  | 2   | *            | RESERVED.                                                                                                                                                                                                          |
| 8       | (8)  | ADDRESS    | 4   | TFWAWBUF     | ADDRESS OF THE 4K WORK BUFFER FOR EACH PROCESSOR. THE 1ST BYTE OF THE BUFFER IS THE BEGINNING OF A TTE.                                                                                                            |
| 12      | (C)  | ADDRESS    | 4   | TFWACTTE     | CURRENT TTE POINTER IN THE WORK BUFFER FOR THE PROCESSOR.                                                                                                                                                          |
| 16      | (10) | ADDRESS    | 4   | TFWAENTY     | ADDRESS OF THE FIRST BYTE PAST THE LAST TTE IN THE PROCESSORS WORK BUFFER.                                                                                                                                         |
| 20      | (14) | CHARACTER  | 24  | TFWABST      | BUFFER STATUS. (COPIED FROM TBVTBST OR TTCHBST)                                                                                                                                                                    |
| 20      | (14) | CHARACTER  | 2   | TFWABFGS     | STATE FLAGS.                                                                                                                                                                                                       |
| 20      | (14) | CHARACTER  | 1   | TFWABFG1     | STATE FLAGS.                                                                                                                                                                                                       |
|         |      | 1... ....  |     | TFWABLST     | AT LEAST ONE 4K BUFFER OF TRACE DATA WAS LOST BETWEEN THE PREVIOUS SUCCESSFUL REFILL OF THE WORK BUFFER (IF ANY) AND THE MOST RECENTLY COMPLETED REFILL OF THE WORK BUFFER.                                        |
|         |      | .1.. ....  |     | TFWACLST     | CONTROL INFORMATION ABOUT THE TRACE BUFFER HAS BEEN LOST. TRACE DATA MAY EXIST IN THE BUFFER BUT THE END OF THE TRACE DATA (TFWAENTY) IS UNKNOWN. THEREFORE, THE BUFFER SHOULD BE FORMATTED IN DEFAULT HEX FORMAT. |
|         |      | ..1. ....  |     | TFWAITTE     | AN INVALID TTE WAS DETECTED BY THE ASID TRACE FILTERING ROUTINE (IEAVETTF).                                                                                                                                        |
| 21      | (15) | CHARACTER  | 1   | TFWABFG2     | STATE FLAGS.                                                                                                                                                                                                       |
| 22      | (16) | SIGNED     | 2   | TFWABSA      | MOST RECENT SASID.                                                                                                                                                                                                 |
| 24      | (18) | SIGNED     | 2   | TFWABHA      | PREVIOUS EXPLICIT TTE HOME ASID.                                                                                                                                                                                   |
| 26      | (1A) | SIGNED     | 2   | TFWABPA      | MOST RECENT PASID.                                                                                                                                                                                                 |
| 28      | (1C) | ADDRESS    | 4   | TFWABTB      | PREVIOUS EXPLICIT TTE TCB ADDRESS RELATED TO HOME.                                                                                                                                                                 |
| 32      | (20) | SIGNED     | 4   | TFWABCNT     | BUFFER USE COUNT.                                                                                                                                                                                                  |
| 36      | (24) | CHARACTER  | 8   | TFWABTOD     | BUFFER TIMESTAMP VALUE FOR THIS PROCESSOR.                                                                                                                                                                         |
| 44      | (2C) | BITSTRING  | 3   | TFWARSV4     | RESERVED.                                                                                                                                                                                                          |
| 47      | (2F) | CHARACTER  | 9   | TFWACURT     | EXTENDED CURRENT TIMESTAMP VALUE.                                                                                                                                                                                  |

| Offsets |      |            |     |            |                                                                                                                                      |
|---------|------|------------|-----|------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                          |
| 47      | (2F) | UNSIGNED   | 1   | TFWACTOF   | CURRENT TIMESTAMP OVERFLOW (TIMER WRAP-AROUND) VALUE.                                                                                |
| 48      | (30) | CHARACTER  | 8   | TFWACTIM   | CURRENT TIMESTAMP VALUE FOR THIS PROCESSOR.                                                                                          |
| 48      | (30) | BITSTRING  | 4   | TFWACTI1   | HIGH ORDER WORD (MULTIPLES OF 1.048 SECONDS).                                                                                        |
| 52      | (34) | BITSTRING  | 4   | TFWACTI2   | LOW ORDER WORD OF CURRENT TIMESTAMP.                                                                                                 |
| 56      | (38) | ADDRESS    | 4   | TFWAWUAD   | Workunit address (TCB or WEB) from previous DSP, SRB, SSRB, or WAIT entry                                                            |
| 60      | (3C) | BITSTRING  | 3   | TFWARSV6   | RESERVED.                                                                                                                            |
| 63      | (3F) | CHARACTER  | 9   | TFWAPRET   | EXTENDED PREVIOUS TIMESTAMP VALUE.                                                                                                   |
| 63      | (3F) | UNSIGNED   | 1   | TFWAPTOF   | PREVIOUS TIMESTAMP OVERFLOW (TIMER WRAP-AROUND) VALUE.                                                                               |
| 64      | (40) | CHARACTER  | 8   | TFWAPTIM   | PREVIOUS TIMESTAMP VALUE FOR THIS PROCESSOR.                                                                                         |
| 64      | (40) | BITSTRING  | 4   | TFWAPT11   | HIGH ORDER WORD (MULTIPLES OF 1.048 SECONDS).                                                                                        |
| 68      | (44) | BITSTRING  | 4   | TFWAPT12   | LOW ORDER WORD OF PREVIOUS TIMESTAMP.                                                                                                |
| 72      | (48) | SIGNED     | 2   | TFWABUFI   | INDEX TO BUFFER SECTION OF TTCH FOR NEXT BUFFER TO BE PROCESSED.                                                                     |
| 74      | (4A) | SIGNED     | 2   | TFWANUMB   | NUMBER OF TRACE BUFFERS TO BE PROCESSED FOR THE PROCESSOR.                                                                           |
| 76      | (4C) | ADDRESS    | 4   | TFWAPTBT   | VIRTUAL ADDRESS OF CURRENT TBVT WHEN TRACE IS SUSPENDED OR INACTIVE ON THIS PROCESSOR. THIS IS A COPY OF TOBPTBVT FOR THE PROCESSOR. |
| 80      | (50) | ADDRESS    | 4   | TFWACTBT   | VIRTUAL ADDRESS OF THE CURRENT TBVT TO BE PROCESSED FOR THE PROCESSOR.                                                               |
| 84      | (54) | ADDRESS    | 4   | TFWANTBT   | REAL ADDRESS OF NEXT TBVT TO BE PROCESSED FOR THE PROCESSOR.                                                                         |
| 88      | (58) | ADDRESS    | 4   | TFWAVTBT   | VIRTUAL ADDRESS OF THE NEXT TBVT TO BE PROCESSED FOR THE PROCESSOR.                                                                  |
| 92      | (5C) | ADDRESS    | 4   | TFWABPTR   | ADDRESS OF BUFFER SECTIONS IN A TTCH FOR THIS PROCESSOR.                                                                             |
| 96      | (60) | CHARACTER  | 32  | TFWARSVP   | RESERVED.                                                                                                                            |
| 128     | (80) | CHARACTER  | 0   | TFWAPEND   | END OF PROCESSOR DATA SECTION.                                                                                                       |

## TFWA Constants

| Len                                           | Type    | Value | Name     | Description                     |
|-----------------------------------------------|---------|-------|----------|---------------------------------|
| Comment                                       |         |       |          |                                 |
| TFWA CONSTANTS AND STATIC LOCAL DECLARATIONS. |         |       |          |                                 |
| End of Comment                                |         |       |          |                                 |
| 4                                             | DECIMAL | 16    | TFWANPS  | NUMBER OF PROCESSORS SUPPORTED. |
| 4                                             | DECIMAL | 1     | TFWACLVL | THE CURRENT TFWA LEVEL NUMBER.  |
| 4                                             | DECIMAL | 4092  | TFWAMAXE | MAXIMUM END-OF-DATA+1 OFFSET.   |

## TFWA Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| TFWA     | 0          |           | TFWABLST | 14         | 80        |
| TFWAADPL | 8          |           | TFWABPA  | 1A         |           |
| TFWAALL  | 28         | 80        | TFWABPTR | 5C         |           |
| TFWAASCT | 56         |           | TFWABR   | 28         | 02        |
| TFWAASDL | 4C         |           | TFWABSA  | 16         |           |
| TFWAASID | C          |           | TFWABST  | 14         |           |
| TFWAASLL | 54         |           | TFWABTB  | 1C         |           |
| TFWAASLN | 50         |           | TFWABTOD | 24         |           |
| TFWAATRC | 29         | 10        | TFWABUFI | 48         |           |
| TFWABCNT | 20         |           | TFWACFLG | A8         |           |
| TFWABFGS | 14         |           | TFWACLST | 14         | 40        |
| TFWABFG1 | 14         |           | TFWACMOD | 9C         |           |
| TFWABFG2 | 15         |           | TFWACOPA | AC         |           |
| TFWABHA  | 18         |           | TFWACPPA | 2          |           |

## TFWA Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| TFWACTBT | 50         |           | TFWAMAIN | 29         | 80        |
| TFWACTIM | 30         |           | TFWAMDAT | 70         |           |
| TFWACTI1 | 30         |           | TFWAMLVL | 68         |           |
| TFWACTI2 | 34         |           | TFWAMODE | A9         | 80        |
| TFWACTOF | 2F         |           | TFWAMODN | 68         |           |
| TFWACTTE | C          |           | TFWAMXMP | 60         |           |
| TFWACTTS | 4          | 20        | TFWANBSP | 5C         |           |
| TFWACUR  | 28         | 40        | TFWANCPU | 5          |           |
| TFWACURB | 10         |           | TFWANOC  | 4          | 08        |
| TFWACURP | 6          |           | TFWANREG | 58         |           |
| TFWACURT | 2F         |           | TFWANTBT | 54         |           |
| TFWADAAP | 29         | 04        | TFWANUMB | 4A         |           |
| TFWADCPU | 98         |           | TFWAPDS  | 0          |           |
| TFWADEFU | 2B         | 20        | TFWAPDSA | 28         | 04        |
| TFWADEVA | 64         |           | TFWAPDSV | 28         | 08        |
| TFWADONE | 29         | 40        | TFWAPEND | 80         |           |
| TFWAEND  | D8         |           | TFWAPFG1 | 5          |           |
| TFWAENTY | 10         |           | TFWAPRET | 3F         |           |
| TFWAEOD1 | 29         | 02        | TFWAPRID | 0          |           |
| TFWAEOTD | 4          | 10        | TFWAPS   | 94         |           |
| TFWAEETF | 2A         | 08        | TFWAPTBT | 4C         |           |
| TFWAETF  | 2A         | 04        | TFWAPTE1 | 29         | 20        |
| TFWAETNP | 2A         | 40        | TFWAPTIM | 40         |           |
| TFWAETPB | 2A         | 02        | TFWAPTI1 | 40         |           |
| TFWAETPW | 2A         | 20        | TFWAPTI2 | 44         |           |
| TFWAETRW | 2A         | 10        | TFWAPTNP | D0         |           |
| TFWAETVP | 2A         | 80        | TFWAPTOF | 3F         |           |
| TFWAEXPL | 2B         | 10        | TFWAPT   | D4         |           |
| TFWAFAS  | 28         | 20        | TFWAP    | 5          | 80        |
| TFWAFBR  | 2B         | 08        | TFWARSVP | 60         |           |
| TFWAFBSG | 29         | 01        | TFWARSV0 | 84         |           |
| TFWAFEXP | 2B         | 40        | TFWARSV2 | CA         |           |
| TFWAFHEX | 2B         | 80        | TFWARSV4 | 2C         |           |
| TFWAFIMP | 4          | 40        | TFWARSV6 | 3C         |           |
| TFWAFLG1 | 28         |           | TFWASCPU | 9A         |           |
| TFWAFLG2 | 29         |           | TFWASDHA | 62         |           |
| TFWAFLG3 | 4          |           | TFWASNAP | 28         | 10        |
| TFWAFLG4 | A9         |           | TFWASPD  | CC         |           |
| TFWAFP   | 28         |           | TFWASSAR | 2B         | 01        |
| TFWAFPC  | 2B         | 04        | TFWASYNO | 29         | 08        |
| TFWAFPEF | 30         |           | TFWATCBL | B0         |           |
| TFWAFPPA | 44         |           | TFWATCHL | 80         |           |
| TFWAFPPC | 2C         |           | TFWATLST | A8         | 10        |
| TFWAFPIF | 48         |           | TFWATOD0 | B8         |           |
| TFWAFPNP | 38         |           | TFWATOD9 | C1         |           |
| TFWAFPPW | 3C         |           | TFWATTCH | 18         |           |
| TFWAFPR  | 2A         | 01        | TFWATTOB | 4          | 80        |
| TFWAFPRW | 40         |           | TFWAUSR  | 5A         |           |
| TFWAFPT  | 2B         | 02        | TFWAUSRN | 28         | 01        |
| TFWAFVP  | 34         |           | TFWAVTBT | 58         |           |
| TFWAFP01 | 2A         |           | TFWAWAEF | 1C         |           |
| TFWAFP02 | 2B         |           | TFWAWAFA | 20         |           |
| TFWAGMSP | 59         |           | TFWAWAIF | 24         |           |
| TFWAGMT  | A8         | 80        | TFWAWAI2 | 90         |           |
| TFWAID   | 0          |           | TFWAWBUF | 8          |           |
| TFWAITTE | 14         | 20        | TFWAWEBL | B4         |           |
| TFWAJOB  | 87         |           | TFWAWUAD | 38         |           |
| TFWAJTIM | 88         |           | TFWAWUOK | 4          | 04        |
| TFWAJT1  | 88         |           | TFWAZONE | A0         |           |
| TFWAJT2  | 8C         |           | TFWA1CPU | A8         | 20        |
| TFWAJTOF | 87         |           |          |            |           |
| TFWALCL  | A8         | 40        |          |            |           |
| TFWALEVL | 4          |           |          |            |           |
| TFWALJFE | 14         |           |          |            |           |
| TFWALLOP | E          |           |          |            |           |



## TICB Heading Information

**Common Name:** TICB - MIH Time Interval Control Block  
**Macro ID:** IOSDTICB  
**DSECT Name:** TICB  
**Owning Component:** IOS (SC1C3)  
**Eye-Catcher ID:** TICB  
 Offset: 0  
 Length: 4  
**Storage Attributes:** Main Storage: YES  
 Virtual Storage: n/a  
 Auxiliary Storage: n/a  
 Subpool: 245  
 Key: 0  
 Residency: Above line  
**Size:** 624  
**Created by:** IOSRMIHT  
**Pointed to by:** MIHATICB  
**Serialization:** Provided by IOSRMIHP processing  
**Function:** Describes the layout of storage obtained and initialized by IOSRMIHT, used by IOSRMIHP to scan the UCBs for missing interrupts, and referenced by IOSRMIHR to determine the MIH recovery action(s).

### TICB Map

| Offsets |     |           |     |            |                                                                                   |
|---------|-----|-----------|-----|------------|-----------------------------------------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                                                                       |
| 0       | (0) | STRUCTURE | 672 | TICB       |                                                                                   |
| 0       | (0) | CHARACTER | 4   | TICBID     | CB identifier ('TICB')                                                            |
| 4       | (4) | ADDRESS   | 4   | TICBECB    | ECB posted when time interval has been terminated                                 |
| 8       | (8) | BITSTRING | 2   | TICBMTCT   | Time count from when processing the last MIH mound pending scan                   |
| 10      | (A) | UNSIGNED  | 1   | TICBCNTR   | One byte counter- Incremented in IOSRMIHP upon entry. Wrap around counter (01-FE) |
| 11      | (B) | CHARACTER | 1   | TICBRSV1   | Reserved - spacer to insure word boundary                                         |
| 12      | (C) | BITSTRING | 4   | TICBPARM   | Action and condition fields for IOSRMIHR                                          |
| 12      | (C) | BITSTRING | 1   | TICBACTN   | ACTION field - Setup by IOSRMIHP.                                                 |
|         |     | 1... .... |     | TICBHC     | Issue HSCH/CSCH as appropriate                                                    |
|         |     | .1.. .... |     | TICBSIM    | Simulate an interrupt                                                             |
|         |     | ..1. .... |     | TICBRDV    | Redrive the device                                                                |
|         |     | ...1 .... |     | TICBRQ     | Requeue the I/O request                                                           |
|         |     | .... 1..  |     | TICBMSG    | Issue a message                                                                   |
|         |     | .... .1.. |     | TICBLOG    | Log the condition on LOGREC                                                       |
|         |     | .... ..1. |     | TICBMSGO   | The device requested message only processing. (Ie: No MIH/IOT recovery actions)   |
|         |     | .... ...1 |     | TICBWAI    | Not an MIH condition, wait another MIH interval                                   |
| 13      | (D) | BITSTRING | 1   | *          | Unused, set to 0                                                                  |
| 14      | (E) | BITSTRING | 1   | *          | Unused, set to 0                                                                  |
| 15      | (F) | BITSTRING | 1   | TICBCOND   | Condition field                                                                   |
|         |     | 1... .... |     | TICBCLRP   | Clear interrupt pending                                                           |
|         |     | .1.. .... |     | TICBHLTP   | Halt interrupt pending                                                            |
|         |     | ..1. .... |     | TICBIDLE   | Idle device, work queued                                                          |
|         |     | ...1 .... |     | TICBSTPD   | Start pending in subchannel                                                       |
|         |     | .... 1..  |     | TICBIOT    | Indicates that I/O timeout processing is in progress                              |
|         |     | .... .1.. |     | TICBMNT    | Mount pending                                                                     |
|         |     | .... ..1. |     | TICBPRIS   | Primary status missing                                                            |

## TICB Cross Reference

| Offsets |       | Type      | Len | Name (Dim) | Description                                                                                                                                       |
|---------|-------|-----------|-----|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex   |           |     |            |                                                                                                                                                   |
|         |       | .... ...1 |     | TICBSECS   | Secondary status missing                                                                                                                          |
| 16      | (10)  | BITSTRING | 4   | TICBPRM1   | Action and condition fields for device dependent exit                                                                                             |
| 16      | (10)  | BITSTRING | 1   | TICBACT1   | Action field - can be modified by the exit routine - contents same as TICBACTN                                                                    |
|         |       | 1111 .... |     | *          | Same as TICBACTN                                                                                                                                  |
|         |       | .... 1... |     | TICBMSG1   | Issue a message                                                                                                                                   |
|         |       | .... .1.. |     | TICBLOG1   | Log the condition in LOGREC                                                                                                                       |
|         |       | .... ..1. |     | *          | Same as TICBACTN                                                                                                                                  |
|         |       | .... ...1 |     | TICBWA11   | Not an MIH condition, wait another MIH interval                                                                                                   |
| 17      | (11)  | BITSTRING | 1   | *          | Unused, set to 0 and ignored                                                                                                                      |
| 18      | (12)  | BITSTRING | 1   | *          | Unused set to 0 and ignored                                                                                                                       |
| 19      | (13)  | BITSTRING | 1   | TICBCON1   | Condition field - set equal to TICBCOND and ignored                                                                                               |
| 20      | (14)  | BITSTRING | 4   | TICBMISC   | Miscellaneous bytes                                                                                                                               |
| 20      | (14)  | BITSTRING | 1   | TICBFLG1   | FLAG BYTE 1                                                                                                                                       |
|         |       | 1... .... |     | TICBTIMS   | Timer started by IOSRMIHI                                                                                                                         |
|         |       | .1.. .... |     | TICBXTME   | IOSXTIME interval caused MIH condition to be detected                                                                                             |
|         |       | ..1. .... |     | TICBIRTO   | MIH timeout due to an IOS recovery operation being delayed                                                                                        |
|         |       | ...1 .... |     | *          | Reserved                                                                                                                                          |
|         |       | .... 1... |     | *          | Reserved                                                                                                                                          |
|         |       | .... .1.. |     | *          | Reserved                                                                                                                                          |
|         |       | .... ..1. |     | *          | Reserved                                                                                                                                          |
|         |       | .... ...1 |     | *          | Reserved                                                                                                                                          |
| 21      | (15)  | BITSTRING | 1   | TICBFLG2   | Flag byte 2 - reserved                                                                                                                            |
| 22      | (16)  | BITSTRING | 1   | TICBRNSC   | MIH condition reason code                                                                                                                         |
| 23      | (17)  | BITSTRING | 1   | TICBRTRY   | Retry count - incremented when a failure occurs during a UCB scan - when the retry limit is reached, the main MIH task is posted for termination. |
| 24      | (18)  | CHARACTER | 8   | TICBTIMB   | Binary time interval (bit 51 equals 1 microsecond)                                                                                                |
| 24      | (18)  | CHARACTER | 4   | TICBTMEH   | Binary time interval, High order                                                                                                                  |
| 28      | (1C)  | CHARACTER | 4   | TICBTMEL   | Binary time interval, low order                                                                                                                   |
| 32      | (20)  | CHARACTER | 128 | TICBTQE    | TQE used for MIH timer                                                                                                                            |
| 160     | (A0)  | CHARACTER | 44  | TICBSRB    | SRB used to schedule entry point IOSRMIH0, IOSRMIH1, IOSRMIH2 OR IOSRMIH3 in module IOSRMIHP                                                      |
| 204     | (CC)  | CHARACTER | 108 | TICBIOSB   | IOSB (w/0 ext) used to perform the subchannel request                                                                                             |
| 312     | (138) | CHARACTER | 52  | TICBSHIB   | SCHIB data from the STSCH request                                                                                                                 |
| 364     | (16C) | ADDRESS   | 4   | TICBETCB   | Address of TCB that got the MIH ENQ during IOSCPARZ nip processing                                                                                |
| 368     | (170) | CHARACTER | 220 | TICBWORK   | Work area for IOSRMIHP                                                                                                                            |
| 588     | (24C) | CHARACTER | 72  | TICBSAVE   | Save area used when IOSRMIHP calls device dependent exit or IOSRMIHR                                                                              |
| 660     | (294) | CHARACTER | 4   | TICBSRC1   | Store Subchannel request return code from IOSVSTSQ, issued in IOSRMIHP.                                                                           |
| 664     | (298) | UNSIGNED  | 4   | TICBWAIT   | Total time waited. Returned by the MIH exit when the secondary timeout value for the device was exceeded.                                         |
| 668     | (29C) | CHARACTER | 4   | *          | Reserved                                                                                                                                          |
| 672     | (2A0) | CHARACTER | 0   | TICBEND    | Force double word boundary                                                                                                                        |

## TICB Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| TICB     | 0          |           | TICBHLTP | F          | 40        |
| TICBACTN | C          |           | TICBID   | 0          |           |
| TICBACT1 | 10         |           | TICBIDLE | F          | 20        |
| TICBCLRP | F          | 80        | TICBIOSB | CC         |           |
| TICBCNTR | A          |           | TICBIOT  | F          | 08        |
| TICBCOND | F          |           | TICBIRTO | 14         | 20        |
| TICBCON1 | 13         |           | TICBLOG  | C          | 04        |
| TICBECB  | 4          |           | TICBLOG1 | 10         | 04        |
| TICBEND  | 2A0        |           | TICBMISC | 14         |           |
| TICBETCB | 16C        |           | TICBMNT  | F          | 04        |
| TICBFLG1 | 14         |           | TICBMSG  | C          | 08        |
| TICBFLG2 | 15         |           | TICBMSGO | C          | 02        |
| TICBHC   | C          | 80        | TICBMSG1 | 10         | 08        |

| <b>Name</b> | <b>Hex<br/>Offset</b> | <b>Hex<br/>Value</b> |
|-------------|-----------------------|----------------------|
| TICBMTCT    | 8                     |                      |
| TICBPARM    | C                     |                      |
| TICBPRIS    | F                     | 02                   |
| TICBPRM1    | 10                    |                      |
| TICBRDV     | C                     | 20                   |
| TICBRQ      | C                     | 10                   |
| TICBRSNC    | 16                    |                      |
| TICBRSV1    | B                     |                      |
| TICBRTRY    | 17                    |                      |
| TICBSAVE    | 24C                   |                      |
| TICBSECS    | F                     | 01                   |
| TICBSHIB    | 138                   |                      |
| TICBSIM     | C                     | 40                   |
| TICBSRB     | A0                    |                      |
| TICBSRC1    | 294                   |                      |
| TICBSTPD    | F                     | 10                   |
| TICBTIMB    | 18                    |                      |
| TICBTIMS    | 14                    | 80                   |
| TICBTMEH    | 18                    |                      |
| TICBTMEL    | 1C                    |                      |
| TICBTQE     | 20                    |                      |
| TICBWAI     | C                     | 01                   |
| TICBWAIT    | 298                   |                      |
| TICBWAI1    | 10                    | 01                   |
| TICBWORK    | 170                   |                      |
| TICBXTME    | 14                    | 40                   |



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## TIOT Programming Interface information

Programming Interface information

### TIOT

**ONLY** the following fields are part of the programming interface information:

- TIOCJSTN
- TIOCSTEP
- TIOEFSRT
- TIOELNGH
- TIOCJOB
- TIOCSTPN
- TIOEJFCB
- TIOEWTCT
- TIOCPSTN
- TIOEDDNM

End of Programming Interface information

## TIOT Heading Information

**Common Name:** Task Input/Output Table  
**Macro ID:** IEFTIOT1  
**DSECT Name:** No DSECT card put out by macro. TIOT1 may be used in the USING statement.  
**Owning Component:** Allocation/unallocation (SC1B4)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Main Storage: No  
 Virtual Storage: Yes  
 Subpool: 237 (obtained from JSCBSWSP)  
 Key: 1  
 Data Space: No  
 Residency: Below (normal TIOT) or Above (XTIOT) 16M  
**Size:** Variable (Installation Defined)  
**Created by:** Device allocation  
**Pointed to by:** TCBTIO field of the TCB data area  
 DCBTIOT field of the DCB data area  
 DSABTIOT field of the DSAB data area (DD entry TIOT)  
 JCTSTIOT field of the JCT data area  
 SMCATIOT field of the SMCA data area (master scheduler TIOT)  
**Serialization:** ENQ on SYSZTIOT  
**Function:** Provides the I/O support routines with pointers to JFCBs and to allocated devices.

- Each DD statement, whether it is a member of a concatenation or not, has its own TIOT DD Entry. There will be one DD statement for each GDG data set for a GDGALL request.
- Within each DD Entry there will be one Device Entry for each device allocated to that DD statement. Single device does not always mean "not a multi-volume" data set. For permres devices (e.g., D/T3390), device and volume are synonymous. However, for tape requests device and volume are NOT synonymous since a tape volume can be mounted on any one of many tape devices.

## TIOT Map

| Offsets |      |            |     |              |                                   |
|---------|------|------------|-----|--------------|-----------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                       |
| 0       | (0)  | STRUCTURE  | 0   |              |                                   |
| 0       | (0)  | SIGNED     | 4   | (0)          |                                   |
| 0       | (0)  | X'0'       | 0   | TIOT1        | *** - TIOTPTR                     |
| 0       | (0)  | CHARACTER  | 8   | TIOCJOB      | - JOB NAME                        |
| 8       | (8)  | CHARACTER  | 16  | TIOCSTEP (0) | - STEP INFORMATION                |
| 8       | (8)  | CHARACTER  | 8   | TIOCSTPN (0) | - 8-BYTE STEP NAME FOR NON-PROCS  |
| 8       | (8)  | CHARACTER  | 8   | TIOCPSTN     | - 8-BYTE PROC STEP NAME FOR PROCS |
| 16      | (10) | CHARACTER  | 8   | TIOJSTN      | - 8-BYTE JOBSTEP NAME FOR PROCS   |

| Offsets                                                                                                                                                                                      |      |            |     |              |                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-----|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec                                                                                                                                                                                          | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                                                                    |
|                                                                                                                                                                                              |      |            |     |              | Comment                                                                                                                                                        |
| DD ENTRY                                                                                                                                                                                     |      |            |     |              |                                                                                                                                                                |
| THERE IS A 16-BYTE DD ENTRY FOR EACH DD STATEMENT IN THE JOB STEP OR PROCEDURE STEP. (REFERENCES TO GDG (ALL) DATA SETS, THE JOBLIB DATA SET OR PGM= .DDNAME CREATE STILL OTHER DD ENTRIES.) |      |            |     |              |                                                                                                                                                                |
| A DD ENTRY INCLUDES A DEVICE ENTRY. BEFORE ALLOCATION, THERE MAY BE SEVERAL DEVICE ENTRIES IN EACH DD ENTRY.                                                                                 |      |            |     |              |                                                                                                                                                                |
|                                                                                                                                                                                              |      |            |     |              | End of Comment                                                                                                                                                 |
| 16                                                                                                                                                                                           | (10) | X'18'      | 0   | TIOENTRY     | *** - TIODDPTR                                                                                                                                                 |
| 24                                                                                                                                                                                           | (18) | SIGNED     | 1   | TIOELNGH     | - LENGTH, IN BYTES, OF THIS ENTRY (INCLUDING ALL DEVICE ENTRIES)                                                                                               |
| 25                                                                                                                                                                                           | (19) | BITSTRING  | 1   | TIOESTTA     | - STATUS BYTE A                                                                                                                                                |
|                                                                                                                                                                                              |      | 1... ....  |     | TIOSLTYP     | "X'80" - NONSTANDARD LABEL (TAPE) (OS/VS1) FREED TIOT ENTRY (OS/VS2)                                                                                           |
|                                                                                                                                                                                              |      | .1.. ....  |     | TIOSPLTP     | "X'40" - DURING ALLOCATION, SPLIT CYLINDER PRIMARY. (THIS IS THE FIRST DD ENTRY FOR A SPLIT CYLINDER.) DURING STEP TERMINATION, NO UNALLOCATION NECESSARY.     |
|                                                                                                                                                                                              |      | ..1. ....  |     | TIOSPLTS     | "X'20" - DURING ALLOCATION, SPLIT CYLINDER SECONDARY. (THIS IS NOT THE FIRST DD ENTRY FOR A SPLIT CYLINDER.) DURING STEP TERMINATION, REWIND BUT NO UNLOADING. |
|                                                                                                                                                                                              |      | ...1 ....  |     | TIOSJBLB     | "X'10" - JOBLIB INDICATOR                                                                                                                                      |
|                                                                                                                                                                                              |      | .... 1..   |     | TIOSDADS     | "X'08" - DADSM ALLOCATION NECESSRY                                                                                                                             |
|                                                                                                                                                                                              |      | .... .1..  |     | TIOSLABL     | "X'04" - LABELED TAPE. IF BIT 0 IS OFF, SL OR SUL. IF BIT 0 IS ALSO ON, AL OR AUL.                                                                             |
|                                                                                                                                                                                              |      | .... ..1.  |     | TIOSDSP1     | "X'02" - REWIND/UNLOAD THE TAPE VOLUME (TAPE) PRIVATE VOLUME (DIRECT ACCESS) MDC001                                                                            |
|                                                                                                                                                                                              |      | .... ...1  |     | TIOSDSP2     | "X'01" - REWIND THE TAPE VOLUME (TAPE) PUBLIC VOLUME (DIRECT ACCESS) MDC002                                                                                    |
| 26                                                                                                                                                                                           | (1A) | CHARACTER  | 2   | TIOERLOC (0) | - RELATIVE LOCATION OF POOL                                                                                                                                    |
| 26                                                                                                                                                                                           | (1A) | CHARACTER  | 1   | TIOEWCT      | - DURING ALLOCATION, NUMBER OF DEVICES REQUESTED FOR THIS DATA SET                                                                                             |
| 27                                                                                                                                                                                           | (1B) | CHARACTER  | 1   | TIOELINK     | - DURING ALLOCATION, LINK TO THE APPROPRIATE PRIME SPLIT, UNIT AFFINITY, VOLUME AFFINITY OR SUBALLOCATE TIOT ENTRY. AFTER ALLOCATION, FLAG BYTE.               |
|                                                                                                                                                                                              |      | 1... ....  |     | TIOSYOUT     | "X'80" - THIS IS A SYSOUT DATA SET THAT CONTAINS DATA (AFTER CLOSE)                                                                                            |
|                                                                                                                                                                                              |      | .1.. ....  |     | TIOTRV01     | "X'40" - RESERVED MDC006                                                                                                                                       |
|                                                                                                                                                                                              |      | ..1. ....  |     | TIOTTERM     | "X'20" - DEVICE IS A TERMINAL                                                                                                                                  |
|                                                                                                                                                                                              |      | ...1 ....  |     | TIOEDYNM     | "X'10" - DYNAM CODED ON DD STATEMENT                                                                                                                           |
|                                                                                                                                                                                              |      | .... 1..   |     | TIOEQNAM     | "X'08" - QNAME CODED ON DD STATEMENT                                                                                                                           |
|                                                                                                                                                                                              |      | .... .1..  |     | TIOESYIN     | "X'04" - ENTRY FOR SPOOLED SYSIN DATA SET (OS/VS1) MDC003                                                                                                      |
|                                                                                                                                                                                              |      | .... ..1.  |     | TIOESYOT     | "X'02" - ENTRY FOR SPOOLED SYSOUT DATA SET (OS/VS1) MDC004                                                                                                     |
|                                                                                                                                                                                              |      | .... ..1.  |     | TIOESSDS     | "X'02" - ENTRY FOR A SUBSYSTEM DATA SET (OS/VS2) MDC005                                                                                                        |
|                                                                                                                                                                                              |      | .... ...1  |     | TIOTREM      | "X'01" - ENTRY FOR A REMOTE DEVICE ICB340                                                                                                                      |
| 28                                                                                                                                                                                           | (1C) | CHARACTER  | 8   | TIOEDDNM     | - DD NAME                                                                                                                                                      |
| 36                                                                                                                                                                                           | (24) | CHARACTER  | 3   | TIOEJFCB     | - SWA virtual address token, mapped by SWAREQ macro. Refer to that macro for further information.                                                              |
| 39                                                                                                                                                                                           | (27) | BITSTRING  | 1   | TIOESTTC     | - STATUS BYTE C. USED DURING ALLOCATION ONLY. SET TO ZEROS AT END OF ALLOCATION.                                                                               |
|                                                                                                                                                                                              |      | 1... ....  |     | TIOSDKCR     | "X'80" - MAIN STORAGE OR DASD ADDRESS                                                                                                                          |
|                                                                                                                                                                                              |      | .1.. ....  |     | TIOSDEFR     | "X'40" - DEFERRED MOUNT                                                                                                                                        |
|                                                                                                                                                                                              |      | ..1. ....  |     | TIOSAFFP     | "X'20" - PRIMARY UNIT AFFINITY                                                                                                                                 |
|                                                                                                                                                                                              |      | ...1 ....  |     | TIOSAFFS     | "X'10" - SECONDARY UNIT AFFINITY                                                                                                                               |
|                                                                                                                                                                                              |      | .... 1..   |     | TIOSVOLP     | "X'08" - PRIMARY VOLUME AFFINITY                                                                                                                               |

# TIOT Map

| Offsets |     |            |     |            |                                    |
|---------|-----|------------|-----|------------|------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                        |
|         |     | .... .1..  |     | TIOSVOLS   | "X'04" - SECONDARY VOLUME AFFINITY |
|         |     | .... ..1.  |     | TIOSBALP   | "X'02" - PRIMARY SUBALLOCATE       |
|         |     | .... ...1  |     | TIOSBALS   | "X'01" - SECONDARY SUBALLOCATE     |

Comment

## DEVICE ENTRIES

1. DURING ALLOCATION -  
ONE DEVICE ENTRY FOR EACH DEVICE REQUIRED, OR FOR EACH PUBLIC DEVICE ELIGIBLE.
2. DURING PROBLEM PROGRAM -  
ONE DEVICE ENTRY FOR EACH ALLOCATED DEVICE.

End of Comment

|    |      |           |   |          |                                                                                                                                                                                                                                                                                                                                                                                  |
|----|------|-----------|---|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 40 | (28) | BITSTRING | 1 | TIOESTTB | - STATUS BYTE B - DURING ALLOCATION AND DURING PROBLEM PROGRAM                                                                                                                                                                                                                                                                                                                   |
|    |      | 1... .... |   | TIOSUSED | "X'80" - DATA SET IS ON DEVICE                                                                                                                                                                                                                                                                                                                                                   |
|    |      | .1.. .... |   | TIOSREQD | "X'40" - DATA SET WILL USE DEVICE                                                                                                                                                                                                                                                                                                                                                |
|    |      | ..1. .... |   | TIOSPVIO | "X'20" - DEVICE VIOLATES SEPARATION                                                                                                                                                                                                                                                                                                                                              |
|    |      | ...1 .... |   | TIOSVLSR | "X'10" - VOLUME SERIAL PRESENT                                                                                                                                                                                                                                                                                                                                                   |
|    |      | .... 1..  |   | TIOSSETU | "X'08" - SETUP MESSAGE REQUIRED                                                                                                                                                                                                                                                                                                                                                  |
|    |      | .... .1.. |   | TIOSMNTD | "X'04" - IF 0, DELETE UNLOADED VOLUME IF UNLOAD REQUIRED. IF 1, RETAIN UNLOADED VOLUME IF UNLOAD REQUIRED.                                                                                                                                                                                                                                                                       |
|    |      | .... ..1. |   | TIOSUNLD | "X'02" - UNLOAD REQUIRED                                                                                                                                                                                                                                                                                                                                                         |
|    |      | .... ...1 |   | TIOSVERF | "X'01" - VERIFICATION REQUIRED                                                                                                                                                                                                                                                                                                                                                   |
| 41 | (29) | ADDRESS   | 3 | TIOEFSRT | - DURING PROBLEM PROGRAM, ADDRESS OF UCB. DURING ALLOCATION, BITS 0-11 CONTAIN OFFSET, IN THE UCB LOOK-UP TABLE, TO AN ADDRESS FOR A DEVICE REQUIRED OR ELIGIBLE FOR THIS DATA SET. THE UCB LOOK-UP TABLE HAS ADDRESSES OF UCB'S. BITS 12-23 CONTAIN OFFSET, IN THE STEP VOLUME TABLE (VOLT), TO THE VOLUME SERIAL NUMBER FOR THE VOLUME REQUIRED OR ELIGIBLE FOR THIS DATA SET. |

Comment

## TIOT POOL ENTRY

End of Comment

|    |      |           |   |          |                                        |
|----|------|-----------|---|----------|----------------------------------------|
| 41 | (29) | X'2C'     | 0 | POOLSTAR | ***                                    |
| 44 | (2C) | CHARACTER | 1 |          | - RESERVED                             |
| 45 | (2D) | SIGNED    | 1 | TIOPNSLT | - NUMBER OF SLOTS FOR POOL             |
| 46 | (2E) | CHARACTER | 1 |          | - RESERVED                             |
| 47 | (2F) | SIGNED    | 1 | TIOPNSRT | - NUMBER OF DEVICES (FILLED SLOTS)     |
| 48 | (30) | CHARACTER | 8 | TIOPPOOL | - POOL NAME                            |
| 56 | (38) | BITSTRING | 1 | TIOPSTTB | - STATUS OF SLOT                       |
| 57 | (39) | ADDRESS   | 3 | TIOPSLOT | - UCB ADDRESS OR EMPTY SLOT            |
| 60 | (3C) | CHARACTER | 4 | TIOTFEND | - FINAL END OF THE TIOT - BINARY ZEROS |



## TIOT Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| POOLSTAR | 29            | 2C           |
| TIOCJSTN | 10            |              |
| TIOCNJOB | 0             |              |
| TIOCPSTN | 8             |              |
| TIOCSTEP | 8             |              |
| TIOCSTPN | 8             |              |
| TIOEDDNM | 1C            |              |
| TIOEDYNM | 1B            | 10           |
| TIOEFSRT | 29            |              |
| TIOEJFCB | 24            |              |
| TIOELINK | 1B            |              |
| TIOELNGH | 18            |              |
| TIOENTRY | 10            | 18           |
| TIOEQNAM | 1B            | 8            |
| TIOERLOC | 1A            |              |
| TIOESSDS | 1B            | 2            |
| TIOESTTA | 19            |              |
| TIOESTTB | 28            |              |
| TIOESTTC | 27            |              |
| TIOESYIN | 1B            | 4            |
| TIOESYOT | 1B            | 2            |
| TIOEWTC  | 1A            |              |
| TIOPNSLT | 2D            |              |
| TIOPNSRT | 2F            |              |
| TIOPPOOL | 30            |              |
| TIOPSLOT | 39            |              |
| TIOPSTTB | 38            |              |
| TIOSAFFP | 27            | 20           |
| TIOSAFFS | 27            | 10           |
| TIOSBALP | 27            | 2            |
| TIOSBALS | 27            | 1            |
| TIOSDADS | 19            | 8            |
| TIOSDEFR | 27            | 40           |
| TIOSDKCR | 27            | 80           |
| TIOSDSP1 | 19            | 2            |
| TIOSDSP2 | 19            | 1            |
| TIOSJBLB | 19            | 10           |
| TIOSLABL | 19            | 4            |
| TIOSLTYP | 19            | 80           |
| TIOSMNTD | 28            | 4            |
| TIOSPLTP | 19            | 40           |
| TIOSPLTS | 19            | 20           |
| TIOSPVIO | 28            | 20           |
| TIOSREQD | 28            | 40           |
| TIOSSETU | 28            | 8            |
| TIOSUNLD | 28            | 2            |
| TIOSUSED | 28            | 80           |
| TIOSVERF | 28            | 1            |
| TIOSVLSR | 28            | 10           |
| TIOSVOLP | 27            | 8            |
| TIOSVOLS | 27            | 4            |
| TIOSYOUT | 1B            | 80           |
| TIOTFEND | 3C            |              |
| TIOTREM  | 1B            | 1            |
| TIOTRV01 | 1B            | 40           |
| TIOTTERM | 1B            | 20           |
| TIOT1    | 0             | 0            |



## TMRB Heading Information

**Common Name:** TIOT Manager Request Block  
**Macro ID:** IEFZB424  
**DSECT Name:** TIOMGRRB  
**Owning Component:** Allocation (SC1B4)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Main Storage: No  
 Virtual Storage: Yes  
 Auxiliary Storage: Yes  
 Key: 1 (Allocation) or 0 (Consoles)  
 Data Space: No  
 Residency: Anywhere (Allocation) or Below (Consoles)  
**Size:** 48 Bytes  
**Created by:** Callers of the TIOT Manager, IEFAB4FC  
**Pointed to by:** Upon entry to IEFAB4FC General Purpose  
 Register 1 points to a pointer to the  
 TIOT Manager Request Block  
**Serialization:** None  
**Function:** The request block contains the input data required by the TIOT  
 Manager, IEFAB4FC. This input includes a function map  
 which indicates the functions which are to be performed  
 for each entry to the TIOT Manager. Other information required  
 depends on the operation as indicated by each field.

### TMRB Map

| Offsets |      |            |     |            |                                                                         |
|---------|------|------------|-----|------------|-------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                             |
| 0       | (0)  | STRUCTURE  | 48  | TIOMGRRB   | TIOT MGR REQUEST BLOCK                                                  |
| 0       | (0)  | BITSTRING  | 2   | TIOMFMAP   | FUNCTION MAP                                                            |
|         |      | 1... ....  |     | TIOMBLD    | CREATE TIOT & QDB                                                       |
|         |      | .1... .... |     | TIOMINIT   | REINITIALIZE TIOT & QDB                                                 |
|         |      | ..1. ....  |     | TIOMALLOC  | ALLOCATE A TIOT DD ENTRY                                                |
|         |      | ...1 ....  |     | TIOMRLSE   | RELEASE A DD ENTRY                                                      |
|         |      | .... 1...  |     | TIOMUPD    | UPDATE TIOT AND QDB                                                     |
|         |      | .... .1..  |     | TIOMCCAT   | CONCATENATE DD ENTRIES                                                  |
|         |      | .... ..1.  |     | TIOMUNAL   | UNALLOCATE (FREE) DSABS                                                 |
|         |      | .... ...1  |     | TIOMFREE   | FREE TIOT & QDB                                                         |
| 1       | (1)  | 1... ....  |     | TIOMRENT   | RELEASE DD ENTRIES WHEN DSABS UNALLOCATED                               |
|         |      | .1.. ....  |     | TIOMDSAO   | USE ONLY DSABS IN INPUT LIST WHEN CONCATENATING                         |
|         |      | ..1. ....  |     | TIOMFDYN   | FREE DYNAMIC ALLOCATION TABLE                                           |
|         |      | ...1 ....  |     | TIOMXTIO   | ALLOCATE XTIO ENTRY                                                     |
|         |      | .... 1...  |     | TIOMDSAA   | Propagation bit for SVC 99 request for DSAB above the 16MB line.        |
|         |      | .... .1..  |     | *          | RESERVED                                                                |
|         |      | .... ..1.  |     | *          | RESERVED                                                                |
|         |      | .... ...1  |     | *          | RESERVED                                                                |
| 2       | (2)  | UNSIGNED   | 2   | TIOMTSZE   | SIZE OF TIOT, REQUIRED INPUT ONLY FOR CREATE FUNCTION                   |
| 4       | (4)  | ADDRESS    | 4   | TIOMJSCP   | POINTER TO JSCB, REQUIRED FOR ALL FUNCTIONS                             |
| 8       | (8)  | ADDRESS    | 4   | TIOMJNMP   | POINTER TO JOB NAME, ONLY REQUIRED FOR CREATE AND INITIALIZE FUNCTIONS  |
| 12      | (C)  | ADDRESS    | 4   | TIOMSNMP   | POINTER TO STEP NAME, ONLY REQUIRED FOR CREATE AND INITIALIZE FUNCTIONS |
| 16      | (10) | ADDRESS    | 4   | TIOMENTP   | PTR TO DD ENTRY TO BE RE-LEASED, REQUIRED FOR RELEASE FUNCTION ONLY     |

## TMRB Cross Reference

| Offsets |      |            |     |            |                                                                                                                                                 |
|---------|------|------------|-----|------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                     |
| 20      | (14) | ADDRESS    | 4   | TIOMDSAP   | PTR TO LIST OF DSABS REQUIRED FOR UNALLOCATE, CONCATENATE AND RELEASE FUNCTIONS. THERE WILL ONLY BE 1 DSAB ON THE LIST FOR THE RELEASE FUNCTION |
| 24      | (18) | ADDRESS    | 4   | TIOMSIOP   | PTR TO FIRST SIOT ON CHAIN, REQUIRED FOR UPDATE FUNCTION                                                                                        |
| 28      | (1C) | ADDRESS    | 4   | TIOMRETP   | PTR TO RETURN INFO AREA, REQUIRED FOR ALLOCATE, CREATE, & INITIALIZE FUNCTIONS                                                                  |
| 32      | (20) | ADDRESS    | 4   | TIOMPSNP   | POINTER TO PROC STEP NAME, REQUIRED ONLY FOR CREATE AND INITIALIZE FUNCTIONS                                                                    |
| 36      | (24) | SIGNED     | 2   | TIOMIUSL   | IN-LINE LIMIT, REQUIRED ONLY FOR CREATE AND INITIALIZE FUNCTIONS                                                                                |
| 38      | (26) | SIGNED     | 2   | TIOMDEVS   | NUMBER OF DEVICES FOR AN ALLOCATE REQUEST                                                                                                       |
| 40      | (28) | ADDRESS    | 4   | TIOMASWA   | ADDRESS OF CURRENT ASWA                                                                                                                         |
| 44      | (2C) | CHARACTER  | 4   | *          | DWORD BOUNDARY                                                                                                                                  |

## TMRB Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| TIOMALOC | 0          | 20        |
| TIOMASWA | 28         |           |
| TIOMBLD  | 0          | 80        |
| TIOMCCAT | 0          | 04        |
| TIOMDEVS | 26         |           |
| TIOMDSAA | 1          | 08        |
| TIOMDSAO | 1          | 40        |
| TIOMDSAP | 14         |           |
| TIOMENTP | 10         |           |
| TIOMFDYN | 1          | 20        |
| TIOMFMAP | 0          |           |
| TIOMFREE | 0          | 01        |
| TIOMGRRB | 0          |           |
| TIOMINIT | 0          | 40        |
| TIOMIUSL | 24         |           |
| TIOMJNMP | 8          |           |
| TIOMJSCP | 4          |           |
| TIOMPSNP | 20         |           |
| TIOMRENT | 1          | 80        |
| TIOMRETP | 1C         |           |
| TIOMRLSE | 0          | 10        |
| TIOMSIOP | 18         |           |
| TIOMSNMP | C          |           |
| TIOMTSZE | 2          |           |
| TIOMUNAL | 0          | 02        |
| TIOMUPD  | 0          | 08        |
| TIOMXTIO | 1          | 10        |

## TMTRC Heading Information

**Common Name:** Task Management Services System Trace Entry Templates  
**Macro ID:** IHATMTRC  
**DSECT Name:** TMWAIT, TMPOST, TMSETS1, TMSETS2, TMCHAP, TMCHPF03  
**Owning Component:** TASK MANAGEMENT (SC1CL)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: 239  
 Key: 0  
 Residency: SQA (above 16m)  
**Size:** 20 bytes per template  
**Created by:** IEAVNIPO  
**Pointed to by:** WSACSTPL field of the Cpu-Related WSAVT  
**Serialization:** Disablement serializes System Trace parameter list  
**Function:** Provides a template for building Task Management Services system trace table entries.

### TMTRC Map

| Offsets |      |            |     |            |                                                                                                     |
|---------|------|------------|-----|------------|-----------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                         |
| 0       | (0)  | STRUCTURE  | 20  | TMWAIT     | IEAVWAIT AND IEAVEWTP ENTRY POINTS OF IEAVEWAT SYSTEM TRACE ENTRY TEMPLATE (SRVID=X0001, AND X0128) |
| 0       | (0)  | ADDRESS    | 4   | TMWTRET    | CALLERS RETURN ADDRESS (ZERO IF IEAVEWTP TO INDICATE PC ENTERED ROUTINE)                            |
| 4       | (4)  | SIGNED     | 4   | TMWTECBA   | ECB ADDRESS OR ECB LIST ADDRESS PROCESSED BY IEAVEWAT                                               |
| 8       | (8)  | SIGNED     | 4   | TMWTCNT    | WAIT COUNT                                                                                          |
| 12      | (C)  | CHARACTER  | 8   | TMWTRSV    | RESERVED                                                                                            |
| 20      | (14) | CHARACTER  | 0   | TMWAITE    | END OF IEAVEWAT SYSTEM TRACE ENTRY TEMPLATE                                                         |

| Offsets |      |            |     |            |                                                                                                                                        |
|---------|------|------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                            |
| 0       | (0)  | STRUCTURE  | 20  | TMPOST     | IEA0PT01, IEA0PT02, IEA0PT03, AND IEAVEPTP ENTRY POINTS OF IEAVEWAT SYSTEM TRACE ENTRY TEMPLATE (SRVID=X0129, X0002, X012A, AND X012B) |
| 0       | (0)  | ADDRESS    | 4   | TMPRET     | CALLERS RETURN ADDRESS (ZERO IF IEAVEPTP TO INDICATE PC ENTERED ROUTINE)                                                               |
| 4       | (4)  | SIGNED     | 4   | TMPTECBA   | ADDRESS OF ECB PROCESSED BY IEAVEPST                                                                                                   |
| 8       | (8)  | SIGNED     | 4   | TMPTSUC    | SYSTEM/USER COMPLETION CODE - IF THE ECB ADDRESS IS ZERO, THIS IS THE RB ADDRESS.                                                      |
| 12      | (C)  | ADDRESS    | 4   | TMPTASCB   | TARGET ASCB ADDRESS OF CROSS-MEMORY POST OR ZERO (NONZERO ONLY IF CROSS-MEMORY POST)                                                   |
| 16      | (10) | ADDRESS    | 4   | TMPTERRT   | ERRRET ROUTINE ADDRESS FOR CROSS-MEMORY POST OR ZERO (NONZERO ONLY IF CROSS-MEMORY POST)                                               |
| 20      | (14) | CHARACTER  | 0   | TMPOSTE    | END OF IEAVEPST SYSTEM TRACE ENTRY TEMPLATE                                                                                            |

| Offsets |     |            |     |            |                                                                            |
|---------|-----|------------|-----|------------|----------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                                                |
| 0       | (0) | STRUCTURE  | 20  | TMSETS1    | IGC07905 ENTRY POINT OF IEAVSETS SYSTEM TRACE ENTRY TEMPLATE (SRVID=X012D) |
| 0       | (0) | ADDRESS    | 4   | TMST1RET   | IGC07905 CALLERS RETURN ADDRESS                                            |
| 4       | (4) | SIGNED     | 4   | TMST1TCB   | TARGET TCB ADDRESS                                                         |
| 8       | (8) | UNSIGNED   | 2   | TMST1IAC   | INPUT ACTION CODE                                                          |
| 10      | (A) | BITSTRING  | 1   | TMST1FLG   | IEAVSETS OPTION FLAG BYTE                                                  |
|         |     | 1... ..    |     | TMST1FSR   | SET/RESET OPERAND INDICATION (0-SET AND 1-RESET)                           |

## TMTRC Map

### Offsets

| Dec | Hex  | Type/Value | Len | Name (Dim) | Description                                 |
|-----|------|------------|-----|------------|---------------------------------------------|
| 11  | (B)  | CHARACTER  | 1   | TMST1RSV   | RESERVED                                    |
| 12  | (C)  | SIGNED     | 2   | TMST1IAS   | INPUT ASID                                  |
| 14  | (E)  | CHARACTER  | 6   | TMST1RV2   | RESERVED                                    |
| 20  | (14) | CHARACTER  | 0   | TMSET1E    | END OF IEAVSETS SYSTEM TRACE ENTRY TEMPLATE |

### Offsets

| Dec | Hex  | Type/Value | Len | Name (Dim) | Description                                                                |
|-----|------|------------|-----|------------|----------------------------------------------------------------------------|
| 0   | (0)  | STRUCTURE  | 20  | TMSETS2    | IEAVSET1 ENTRY POINT OF IEAVSETS SYSTEM TRACE ENTRY TEMPLATE (SRVID=X012E) |
| 0   | (0)  | ADDRESS    | 4   | TMST2RET   | IEAVSET1 CALLERS RETURN ADDRESS                                            |
| 4   | (4)  | SIGNED     | 4   | TMST2ASA   | CURRENTLY DISPATCHED ASCB ADDRESS                                          |
| 8   | (8)  | CHARACTER  | 12  | TMST2RSV   | RESERVED                                                                   |
| 20  | (14) | CHARACTER  | 0   | TMSET2E    | END OF IEAVSETS SYSTEM TRACE ENTRY TEMPLATE                                |

### Offsets

| Dec | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                    |
|-----|------|------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0   | (0)  | STRUCTURE  | 20  | TMCHAP     | ASCBCHAP SYSTEM TRACE ENTRY TEMPLATE (SRVID=X012C)                                                                                                                                                             |
| 0   | (0)  | ADDRESS    | 4   | TMCHPRET   | ASCBCHAP CALLERS RETURN ADDRESS                                                                                                                                                                                |
| 4   | (4)  | SIGNED     | 4   | TMCHPFC    | ASCBCHAP FUNCTION CODE - 0 - MOVE, 1 - ADD, 2 - DELETE, 3 - EXTENDED MOVE 4 - Enclave Move                                                                                                                     |
| 8   | (8)  | CHARACTER  | 8   | TMCHPFDT   | ASCBCHAP function dependend data (ASCB address and dispatching priority for Add and Delete, first move parameter vector entry for Move or Enclave Move, or first extended move table entry for Extended Move.) |
| 8   | (8)  | BITSTRING  | 2   | TMCHPFL    | FOR TMCHPFC=0 or 4: FLAG BITS - HI-ORDER BIT ON INDICATES THE LAST PARAMETER VECTOR ENTRY                                                                                                                      |
| 10  | (A)  | SIGNED     | 2   | TMCHPDP    | FOR TMCHPFC=0,1,2, OR 4: DISPATCHING PRIORITY                                                                                                                                                                  |
| 12  | (C)  | ADDRESS    | 4   | TMCHPAS    | FOR TMCHPFC=0,1, OR 2: ASCB ADDRESS                                                                                                                                                                            |
| 12  | (C)  | ADDRESS    | 4   | TMCHPENC   | FOR TMCHPFC=4: Enclave address                                                                                                                                                                                 |
| 16  | (10) | CHARACTER  | 4   | TMCHPRSV   | RESERVED                                                                                                                                                                                                       |
| 20  | (14) | CHARACTER  | 0   | TMCHAPE    | END OF ASCBCHAP SYSTEM TRACE ENTRY TEMPLATE                                                                                                                                                                    |

### Offsets

| Dec | Hex | Type/Value | Len | Name (Dim) | Description                                                        |
|-----|-----|------------|-----|------------|--------------------------------------------------------------------|
| 8   | (8) | STRUCTURE  | 8   | TMCHPF03   | MAP THE FUNCTION DEPENDENT AREA TO SHOW ITS CONTENTS FOR TMCHPFC=3 |
| 8   | (8) | UNSIGNED   | 1   | TMCHPFUN   | FOR TMCHPFC=3: EXTENDED FUNCTION (4=CHAP UP, 8=CHAP DOWN)          |
| 9   | (9) | UNSIGNED   | 1   | TMCHPTSG   | FOR TMCHPFC=3: TIME SLICE GROUP NUMBER                             |
| 10  | (A) | SIGNED     | 2   | TMCHPCNT   | FOR TMCHPFC=3: NUMBER OF USERS IN THE TIME SLICE GROUP             |
| 12  | (C) | ADDRESS    | 4   | TMCHPNXT   | FOR TMCHPFC=3: POINTER TO NEXT EXTENDED MOVE TABLE ENTRY           |

TMTRC Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| TMCHAP   | 0          |           |
| TMCHAPE  | 14         |           |
| TMCHPAS  | C          |           |
| TMCHPCNT | A          |           |
| TMCHPDP  | A          |           |
| TMCHPENC | C          |           |
| TMCHPFC  | 4          |           |
| TMCHPFDT | 8          |           |
| TMCHPFL  | 8          |           |
| TMCHPFUN | 8          |           |
| TMCHPF03 | 8          |           |
| TMCHPNXT | C          |           |
| TMCHPRET | 0          |           |
| TMCHPRSV | 10         |           |
| TMCHPTSG | 9          |           |
| TMPOST   | 0          |           |
| TMPOSTE  | 14         |           |
| TMPTASCB | C          |           |
| TMPTECBA | 4          |           |
| TMPTERRT | 10         |           |
| TMPTRET  | 0          |           |
| TMPTSUCC | 8          |           |
| TMSETS1  | 0          |           |
| TMSETS2  | 0          |           |
| TMSET1E  | 14         |           |
| TMSET2E  | 14         |           |
| TMST1FLG | A          |           |
| TMST1FSR | A          | 80        |
| TMST1IAC | 8          |           |
| TMST1IAS | C          |           |
| TMST1RET | 0          |           |
| TMST1RSV | B          |           |
| TMST1RV2 | E          |           |
| TMST1TCB | 4          |           |
| TMST2ASA | 4          |           |
| TMST2RET | 0          |           |
| TMST2RSV | 8          |           |
| TMWAIT   | 0          |           |
| TMWAITE  | 14         |           |
| TMWTCNT  | 8          |           |
| TMWTECBA | 4          |           |
| TMWTRET  | 0          |           |
| TMWTRSV  | C          |           |





## TOB Heading Information

**Common Name:** SYSTEM TRACE OPTION BLOCK (TOB)  
**Macro ID:** IHATOB  
**DSECT Name:** TOB  
**Owning Component:** SYSTEM TRACE (SC142)  
**Eye-Catcher ID:** TOB  
 Offset: 0  
 Length: 4

**Storage Attributes:** Subpool: NUCLEUS (Above)  
 Key: 0

**Size:** 80

**Created by:** EXISTS AS NUCLEUS RESIDENT MODULE IEAVETOB  
**Pointed to by:** TRVTTTB  
**Serialization:** GENERAL:  
 WHEN THE TRACE ADDRESS SPACE DOES NOT EXIST OR IS NOT OPERATIONAL AS A CROSS MEMORY ADDRESS SPACE, ALL TOB FIELDS ARE (RE)INITIALIZED UNDER AN ENQ ON THE TRACE RESOURCE.  
 FIELD TOBTRCI IS UPDATED AT ANY TIME VIA COMPARE AND SWAP.  
 FIELD TOBPWAW1 IS UPDATED AT ANY TIME UNDER DISABLEMENT ON THE PROCESSOR.  
 GLOBAL FIELDS:  
 WHEN THE TRACE ADDRESS SPACE IS OPERATIONAL AS A CROSS MEMORY ADDRESS SPACE, THE GLOBAL TRACE STATE FIELDS ARE SERIALIZED BY COMPARE AND SWAP, THE TRACE SPIN LOCK AND/OR SYSTEM TRACE ADDRESS SPACE LOCAL LOCK. SEE THE COMMENT ON THE PARTICULAR FIELD.  
 FIELD TOBTRCI IS UPDATED AT ANY TIME VIA COMPARE AND SWAP.  
 PROCESSOR RELATED FIELDS:  
 WHEN THE TRACE ADDRESS SPACE IS OPERATIONAL AS A CROSS MEMORY ADDRESS SPACE, THE PROCESSOR TRACE STATE FIELDS ARE SERIALIZED BY DISABLEMENT, THE TRACE SPIN LOCK AND/OR SYSTEM TRACE ADDRESS SPACE LOCAL LOCK. SEE THE COMMENT ON THE PARTICULAR FIELD.  
 FIELD TOBPWAW1 IS UPDATED AT ANY TIME UNDER DISABLEMENT ON THE PROCESSOR.

**Function:** CONTAIN THE SYSTEM TRACE CONFIGURATION AND STATE INFORMATION.

### TOB Map

| Offsets |     |            |     |            |                            |
|---------|-----|------------|-----|------------|----------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                |
| 0       | (0) | STRUCTURE  | 80  | TOB        | TRACE OPTION BLOCK.        |
| 0       | (0) | CHARACTER  | 21  | TOBIDENT   | TOB IDENTIFICATION FIELDS. |
| 0       | (0) | CHARACTER  | 4   | TOBID      | TOB EBCDIC IDENTIFIER.     |
| 4       | (4) | CHARACTER  | 8   | TOBDATE    | MODULE DATE.               |
| 12      | (C) | CHARACTER  | 8   | TOBMLVL    | MODULE LEVEL.              |

## TOB Map

| Offsets |      |            |     |            |                                                                                                                                                                                                                                                 |
|---------|------|------------|-----|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                                                     |
| 20      | (14) | UNSIGNED   | 1   | TOBBLVL    | CONTROL BLOCK LEVEL NUMBER.                                                                                                                                                                                                                     |
| 21      | (15) | BITSTRING  | 1   | TOBTRFG1   | TRACE STATUS FLAGS. SERIALIZATION - THE TRACE SPIN LOCK AND THE TRACE ADDRESS SPACE LOCAL LOCK.                                                                                                                                                 |
|         |      | 1... ....  |     | TOBSVACT   | TRACE SERVICES AVAILABLE.                                                                                                                                                                                                                       |
|         |      | .1.. ....  |     | TOBSTACT   | TRACE ACTIVE FLAG.                                                                                                                                                                                                                              |
|         |      | ..11 1111  |     | *          | RESERVED.                                                                                                                                                                                                                                       |
| 22      | (16) | BITSTRING  | 1   | TOBTRFG2   | TRACE PENDING FLAGS. SERIALIZATION - THE TRACE SPIN LOCK AND THE TRACE ADDRESS SPACE LOCAL LOCK.                                                                                                                                                |
|         |      | 1... ....  |     | TOBPNDEA   | TRACE ENVIRONMENT ALTERATION PENDING.                                                                                                                                                                                                           |
|         |      | .1.. ....  |     | TOBPNDOF   | TRACEOFF PENDING.                                                                                                                                                                                                                               |
|         |      | ..11 1111  |     | *          | RESERVED.                                                                                                                                                                                                                                       |
| 23      | (17) | BITSTRING  | 1   | TOBTRFG3   | MISCELLANEOUS TRACE FLAGS.                                                                                                                                                                                                                      |
|         |      | 1... ....  |     | TOBTAST    | TRACE ADDRESS SPACE TERMINATION IN PROGRESS FLAG.                                                                                                                                                                                               |
|         |      | .111 1111  |     | *          | RESERVED.                                                                                                                                                                                                                                       |
| 24      | (18) | BITSTRING  | 4   | TOBTROPT   | Trace options requested in approximately CR12 format. It must never be used without ANDing with the mask needed for the architecture. INITIAL STATE IS X'00000003'. SERIALIZATION - THE TRACE SPIN LOCK AND THE TRACE ADDRESS SPACE LOCAL LOCK. |
| 24      | (18) | CHARACTER  | 1   | TOBTROB0   | BRANCH TRACE OPTION. BIT 0.                                                                                                                                                                                                                     |
|         |      | 1... ....  |     | TOBTRBR    |                                                                                                                                                                                                                                                 |
|         |      | .1.. ....  |     | TOBTRMO    | MODE trace option. Bit 1.                                                                                                                                                                                                                       |
| 25      | (19) | CHARACTER  | 2   | *          |                                                                                                                                                                                                                                                 |
| 27      | (1B) | BITSTRING  | 1   | TOBTROB4   | LAST BYTE OF TRACE OPTIONS REQUESTED.                                                                                                                                                                                                           |
|         |      | 1111 11..  |     | *          | RESERVED.                                                                                                                                                                                                                                       |
|         |      | .... ..1.  |     | TOBTRASD   | ASID TRACE OPTION. BIT 30.                                                                                                                                                                                                                      |
|         |      | .... ...1  |     | TOBTREXP   | EXPLICIT TRACE OPTION. BIT 31.                                                                                                                                                                                                                  |
| 28      | (1C) | UNSIGNED   | 2   | TOBTRPOL   | NUMBER OF PROCESSORS WITH TRACE CURRENTLY ACTIVE AND/OR SUSPENDED. SERIALIZATION - THE TRACE SPIN LOCK AND THE TRACE ADDRESS SPACE LOCAL LOCK.                                                                                                  |
| 30      | (1E) | UNSIGNED   | 2   | TOBTRBUF   | NUMBER OF BUFFERS REQUESTED PER PROCESSOR. SERIALIZATION - THE TRACE SPIN LOCK AND THE TRACE ADDRESS SPACE LOCAL LOCK.                                                                                                                          |
| 32      | (20) | ADDRESS    | 4   | TOBASCB    | TRACE ADDRESS SPACE ASCB ADDRESS.                                                                                                                                                                                                               |
| 36      | (24) | CHARACTER  | 2   | TOBRSDV2   | RESERVED.                                                                                                                                                                                                                                       |
| 38      | (26) | UNSIGNED   | 2   | TOBASID    | TRACE ADDRESS SPACE ASID.                                                                                                                                                                                                                       |
| 40      | (28) | ADDRESS    | 4   | TOBAASC    | THE ALTRTRC (OR CREATING) ADDRESS SPACE ASCB ADDRESS.                                                                                                                                                                                           |
| 44      | (2C) | ADDRESS    | 4   | TOBVSRB    | VERIFICATION SRB ADDRESS. SERIALIZATION - THE TRACE ADDRESS SPACE LOCAL LOCK.                                                                                                                                                                   |
| 48      | (30) | CHARACTER  | 2   | TOBDMPID   | TRACE DUMP ID. SERIALIZATION - THE TRACE ADDRESS SPACE LOCAL LOCK.                                                                                                                                                                              |
| 50      | (32) | CHARACTER  | 2   | TOBRSDV3   | RESERVED.                                                                                                                                                                                                                                       |
| 52      | (34) | SIGNED     | 4   | TOBTRMID   | TRACE TERMINATION MESSAGE ID.                                                                                                                                                                                                                   |
| 56      | (38) | SIGNED     | 4   | TOBTRCI    | TRACE TTE CONTINUATION INFORMATION COUNT. SERIALIZATION - COMPARE AND SWAP.                                                                                                                                                                     |
| 60      | (3C) | ADDRESS    | 4   | TOBPEAD    | ADDRESS OF THE PROCESSOR ENTRIES. SERIALIZATION - THE TRACE SPIN LOCK AND THE TRACE ADDRESS SPACE LOCAL LOCK.                                                                                                                                   |
| 64      | (40) | CHARACTER  | 8   | TOBTTCHQ   | TTCH QUEUE HEADER. SERIALIZATION - THE TRACE ADDRESS SPACE LOCAL LOCK.                                                                                                                                                                          |
| 64      | (40) | ADDRESS    | 4   | TOBTTCHF   | TTCH FORWARD CHAIN.                                                                                                                                                                                                                             |
| 68      | (44) | ADDRESS    | 4   | TOBTTCHB   | TTCH BACKWARD CHAIN.                                                                                                                                                                                                                            |
| 72      | (48) | CHARACTER  | 8   | TOBRSDV4   | RESERVED.                                                                                                                                                                                                                                       |
| 80      | (50) | CHARACTER  | 0   | TOBEND     | END OF TOB.                                                                                                                                                                                                                                     |

| Offsets |      |            |     |            |                                                                                                                                                                                                                                                                                                                 |
|---------|------|------------|-----|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                                                                                                                     |
| 0       | (0)  | STRUCTURE  | 16  | TOBPE (16) | PROCESSOR ENTRY.                                                                                                                                                                                                                                                                                                |
| 0       | (0)  | BITSTRING  | 1   | TOBPFG1    | PROCESSOR FLAGS. SERIALIZATION - DISABLEMENT ON THE PROCESSOR, OR THE TRACE SPIN LOCK AND THE TRACE ADDRESS SPACE LOCAL LOCK IF THE PROCESSOR IS NOT ALIVE (CSDCPUAL).                                                                                                                                          |
|         |      | 1... ..    |     | TOBPTSA    | PROCESSOR TRACE STRUCTURE AVAILABLE.                                                                                                                                                                                                                                                                            |
|         |      | .111 1111  |     | *          | RESERVED.                                                                                                                                                                                                                                                                                                       |
| 1       | (1)  | CHARACTER  | 1   | TOBPRSV1   | RESERVED.                                                                                                                                                                                                                                                                                                       |
| 2       | (2)  | UNSIGNED   | 2   | TOBPBUF    | NUMBER OF BUFFERS FOR THIS PROCESSOR.                                                                                                                                                                                                                                                                           |
|         |      |            |     |            | SERIALIZATION - DISABLEMENT ON THE PROCESSOR, OR THE TRACE SPIN LOCK AND THE TRACE ADDRESS SPACE LOCAL LOCK IF THE PROCESSOR IS NOT ALIVE (CSDCPUAL).                                                                                                                                                           |
| 4       | (4)  | ADDRESS    | 4   | TOBPTBVT   | VIRTUAL POINTER INTO CURRENT TRACE BUFFER VECTOR TABLE (TBVT) QUEUE FOR THE INDEXED PROCESSOR. ADDRESS OF MOST CURRENT TBVT WHEN TRACE IS SUSPENDED OR INACTIVE ON THE PROCESSOR. SERIALIZATION - DISABLEMENT ON THE PROCESSOR, OR THE TRACE ADDRESS SPACE LOCAL LOCK IF THE PROCESSOR IS NOT ALIVE (CSDCPUAL). |
|         |      |            |     |            | PROCESSOR WORK AREA ESAME                                                                                                                                                                                                                                                                                       |
| 8       | (8)  | CHARACTER  | 8   | TOBPWAE    | PROCESSOR WORK AREA ESAME                                                                                                                                                                                                                                                                                       |
| 8       | (8)  | SIGNED     | 4   | TOBPWAW0   | PART OF TOBPWAE                                                                                                                                                                                                                                                                                                 |
| 12      | (C)  | SIGNED     | 4   | TOBPWAW1   | PROCESSOR WORK AREA. SERIALIZATION - DISABLEMENT ON THE PROCESSOR.                                                                                                                                                                                                                                              |
| 16      | (10) | CHARACTER  | 0   | TOBPEND    | END OF PROCESSOR ENTRY.                                                                                                                                                                                                                                                                                         |

**TOB Constants**

| Len | Type    | Value | Name    | Description       |
|-----|---------|-------|---------|-------------------|
| 1   | DECIMAL |       | TOBLVLN | TOB LEVEL NUMBER. |

**TOB Cross Reference**

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| TOB      | 0          |           | TOBSVACT | 15         | 80        |
| TOBAASCB | 28         |           | TOBTAST  | 17         | 80        |
| TOBASCBC | 20         |           | TOBTRASD | 1B         | 02        |
| TOBASID  | 26         |           | TOBTRBR  | 18         | 80        |
| TOBBLVL  | 14         |           | TOBTRBUF | 1E         |           |
| TOBDATE  | 4          |           | TOBTRCI  | 38         |           |
| TOBDMPID | 30         |           | TOBTREXP | 1B         | 01        |
| TOBEND   | 50         |           | TOBTRFG1 | 15         |           |
| TOBID    | 0          |           | TOBTRFG2 | 16         |           |
| TOBIDENT | 0          |           | TOBTRFG3 | 17         |           |
| TOBMLVL  | C          |           | TOBTRMID | 34         |           |
| TOBPBUF  | 2          |           | TOBTRMO  | 18         | 40        |
| TOBPE    | 0          |           | TOBTROB0 | 18         |           |
| TOBPEAD  | 3C         |           | TOBTROB4 | 1B         |           |
| TOBPEND  | 10         |           | TOBTROPT | 18         |           |
| TOBPFG1  | 0          |           | TOBTRPOL | 1C         |           |
| TOBPNDEA | 16         | 80        | TOBTTCHB | 44         |           |
| TOBPNDOF | 16         | 40        | TOBTTCHF | 40         |           |
| TOBPRSV1 | 1          |           | TOBTTCHQ | 40         |           |
| TOBPTBVT | 4          |           | TOBVS RB | 2C         |           |
| TOBPTSA  | 0          | 80        |          |            |           |
| TOBPWAE  | 8          |           |          |            |           |
| TOBPWAW0 | 8          |           |          |            |           |
| TOBPWAW1 | C          |           |          |            |           |
| TOBRSVD2 | 24         |           |          |            |           |
| TOBRSVD3 | 32         |           |          |            |           |
| TOBRSVD4 | 48         |           |          |            |           |
| TOBSTACT | 15         | 40        |          |            |           |



## TOT Heading Information

**Common Name:** System trace operand table (TOT)  
**Macro ID:** IHATOT  
**DSECT Name:** TOT  
**Owning Component:** SYSTEM TRACE (SC142)  
**Eye-Catcher ID:** TOT  
 Offset: 0  
 Length: 4  
**Storage Attributes:** Subpool: NUCLEUS (BELOW THE 16M LINE)  
 Key: 0  
**Size:** 360 BYTES  
**Created by:** EXISTS AS NUCLEUS RESIDENT MODULE IEAVETOT  
**Pointed to by:** PSATOT  
**Serialization:** N/A  
**Function:** Create or map the table of trace operands used when issuing the trace instruction.

### TOT Map

| Offsets |      |            |     |            |                              |
|---------|------|------------|-----|------------|------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                  |
| 0       | (0)  | STRUCTURE  | 392 | TOT        | Trace operand table          |
| 0       | (0)  | CHARACTER  | 4   | TOTID      | TOT EBCDIC identifier        |
| 4       | (4)  | CHARACTER  | 8   | TOTDATE    | Module date                  |
| 12      | (C)  | CHARACTER  | 8   | TOTMLVL    | Module level                 |
| 20      | (14) | UNSIGNED   | 1   | TOTBLVL    | Control block level number   |
| 21      | (15) | CHARACTER  | 3   | TOTRSD1    | Reserved                     |
| 24      | (18) | UNSIGNED   | 4   | TOTNUME    | Number of table entries      |
| 28      | (1C) | UNSIGNED   | 4   | TOTRSD2    | Reserved                     |
| 32      | (20) | CHARACTER  | 0   | TOTTOTE    | Start of table entries       |
| 32      | (20) | CHARACTER  | 8   | TOTSSCH    | TRACE OPERAND FOR TYPE SSCH. |
|         |      | 1... ....  |     | TOTSSCHI   | TRACE INHIBIT BIT.           |
| 40      | (28) | CHARACTER  | 8   | TOTMSCH    | TRACE OPERAND FOR TYPE MSCH. |
|         |      | 1... ....  |     | TOTMSCHI   | TRACE INHIBIT BIT.           |
| 48      | (30) | CHARACTER  | 8   | TOTHSCH    | TRACE OPERAND FOR TYPE HSCH. |
|         |      | 1... ....  |     | TOTHSCHI   | TRACE INHIBIT BIT.           |
| 56      | (38) | CHARACTER  | 8   | TOTCSCH    | TRACE OPERAND FOR TYPE CSCH. |
|         |      | 1... ....  |     | TOTCSCHI   | TRACE INHIBIT BIT.           |
| 64      | (40) | CHARACTER  | 8   | TOTRSCH    | TRACE OPERAND FOR TYPE RSCH. |
|         |      | 1... ....  |     | TOTRSCHI   | TRACE INHIBIT BIT.           |
| 72      | (48) | CHARACTER  | 8   | TOTEXT     | TRACE OPERAND FOR TYPE EXT.  |
|         |      | 1... ....  |     | TOTEXTI    | TRACE INHIBIT BIT.           |
| 80      | (50) | CHARACTER  | 8   | TOTEMS     | TRACE OPERAND FOR TYPE EMS.  |
|         |      | 1... ....  |     | TOTEMSI    | TRACE INHIBIT BIT.           |
| 88      | (58) | CHARACTER  | 8   | TOTSS      | TRACE OPERAND FOR TYPE SS.   |
|         |      | 1... ....  |     | TOTSSI     | TRACE INHIBIT BIT.           |
| 96      | (60) | CHARACTER  | 8   | TOTCALL    | TRACE OPERAND FOR TYPE CALL. |
|         |      | 1... ....  |     | TOTCALLI   | TRACE INHIBIT BIT.           |
| 104     | (68) | CHARACTER  | 8   | TOTCLKC    | TRACE OPERAND FOR TYPE CLKC. |
|         |      | 1... ....  |     | TOTCLKCI   | TRACE INHIBIT BIT.           |
| 112     | (70) | CHARACTER  | 8   | TOTSVC     | TRACE OPERAND FOR TYPE SVC.  |
|         |      | 1... ....  |     | TOTSVCI    | TRACE INHIBIT BIT.           |
| 120     | (78) | CHARACTER  | 8   | TOTSVCR    | TRACE OPERAND FOR TYPE SVCR. |
|         |      | 1... ....  |     | TOTSVCRI   | TRACE INHIBIT BIT.           |
| 128     | (80) | CHARACTER  | 8   | TOTSVCE    | TRACE OPERAND FOR TYPE SVCE. |
|         |      | 1... ....  |     | TOTSVCEI   | TRACE INHIBIT BIT.           |
| 136     | (88) | CHARACTER  | 8   | TOTPGM     | TRACE OPERAND FOR TYPE PGM.  |
|         |      | 1... ....  |     | TOTPGMI    | TRACE INHIBIT BIT.           |
| 144     | (90) | CHARACTER  | 8   | TOTSPER    | TRACE OPERAND FOR TYPE SPER. |

# TOT Map

| Offsets |       |            |     |            |                              |
|---------|-------|------------|-----|------------|------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim) | Description                  |
|         |       | 1... ....  |     | TOTSPERI   | TRACE INHIBIT BIT.           |
| 152     | (98)  | CHARACTER  | 8   | TOTIO      | TRACE OPERAND FOR TYPE IO.   |
|         |       | 1... ....  |     | TOTIOI     | TRACE INHIBIT BIT.           |
| 160     | (A0)  | CHARACTER  | 8   | TOTDSP     | TRACE OPERAND FOR TYPE DSP.  |
|         |       | 1... ....  |     | TOTDSPI    | TRACE INHIBIT BIT.           |
| 168     | (A8)  | CHARACTER  | 8   | TOTSRB     | TRACE OPERAND FOR TYPE SRB.  |
|         |       | 1... ....  |     | TOTSRBI    | TRACE INHIBIT BIT.           |
| 176     | (B0)  | CHARACTER  | 8   | TOTSSRB    | TRACE OPERAND FOR TYPE SSRB. |
|         |       | 1... ....  |     | TOTSSRBI   | TRACE INHIBIT BIT.           |
| 184     | (B8)  | CHARACTER  | 8   | TOTWAIT    | TRACE OPERAND FOR TYPE WAIT. |
|         |       | 1... ....  |     | TOTWAITI   | TRACE INHIBIT BIT.           |
| 192     | (C0)  | CHARACTER  | 8   | TOTMCH     | TRACE OPERAND FOR TYPE MCH.  |
|         |       | 1... ....  |     | TOTMCHI    | TRACE INHIBIT BIT.           |
| 200     | (C8)  | CHARACTER  | 8   | TOTRST     | TRACE OPERAND FOR TYPE RST.  |
|         |       | 1... ....  |     | TOTRSTI    | TRACE INHIBIT BIT.           |
| 208     | (D0)  | CHARACTER  | 8   | TOTACR     | TRACE OPERAND FOR TYPE ACR.  |
|         |       | 1... ....  |     | TOTACRI    | TRACE INHIBIT BIT.           |
| 216     | (D8)  | CHARACTER  | 8   | TOTSUSP    | TRACE OPERAND FOR TYPE SUSP. |
|         |       | 1... ....  |     | TOTSUSPI   | TRACE INHIBIT BIT.           |
| 224     | (E0)  | CHARACTER  | 8   | TOTALTR    | TRACE OPERAND FOR TYPE ALTR. |
|         |       | 1... ....  |     | TOTALTRI   | TRACE INHIBIT BIT.           |
| 232     | (E8)  | CHARACTER  | 8   | TOTSSRV    | TRACE OPERAND FOR TYPE SSRV. |
|         |       | 1... ....  |     | TOTSSRVI   | TRACE INHIBIT BIT.           |
| 240     | (F0)  | CHARACTER  | 8   | TOTUSR0    | TRACE OPERAND FOR TYPE USR0. |
|         |       | 1... ....  |     | TOTUSR0I   | TRACE INHIBIT BIT.           |
| 248     | (F8)  | CHARACTER  | 8   | TOTUSR1    | TRACE OPERAND FOR TYPE USR1. |
|         |       | 1... ....  |     | TOTUSR1I   | TRACE INHIBIT BIT.           |
| 256     | (100) | CHARACTER  | 8   | TOTUSR2    | TRACE OPERAND FOR TYPE USR2. |
|         |       | 1... ....  |     | TOTUSR2I   | TRACE INHIBIT BIT.           |
| 264     | (108) | CHARACTER  | 8   | TOTUSR3    | TRACE OPERAND FOR TYPE USR3. |
|         |       | 1... ....  |     | TOTUSR3I   | TRACE INHIBIT BIT.           |
| 272     | (110) | CHARACTER  | 8   | TOTUSR4    | TRACE OPERAND FOR TYPE USR4. |
|         |       | 1... ....  |     | TOTUSR4I   | TRACE INHIBIT BIT.           |
| 280     | (118) | CHARACTER  | 8   | TOTUSR5    | TRACE OPERAND FOR TYPE USR5. |
|         |       | 1... ....  |     | TOTUSR5I   | TRACE INHIBIT BIT.           |
| 288     | (120) | CHARACTER  | 8   | TOTUSR6    | TRACE OPERAND FOR TYPE USR6. |
|         |       | 1... ....  |     | TOTUSR6I   | TRACE INHIBIT BIT.           |
| 296     | (128) | CHARACTER  | 8   | TOTUSR7    | TRACE OPERAND FOR TYPE USR7. |
|         |       | 1... ....  |     | TOTUSR7I   | TRACE INHIBIT BIT.           |
| 304     | (130) | CHARACTER  | 8   | TOTUSR8    | TRACE OPERAND FOR TYPE USR8. |
|         |       | 1... ....  |     | TOTUSR8I   | TRACE INHIBIT BIT.           |
| 312     | (138) | CHARACTER  | 8   | TOTUSR9    | TRACE OPERAND FOR TYPE USR9. |
|         |       | 1... ....  |     | TOTUSR9I   | TRACE INHIBIT BIT.           |
| 320     | (140) | CHARACTER  | 8   | TOTUSRA    | TRACE OPERAND FOR TYPE USRA. |
|         |       | 1... ....  |     | TOTUSRAI   | TRACE INHIBIT BIT.           |
| 328     | (148) | CHARACTER  | 8   | TOTUSRB    | TRACE OPERAND FOR TYPE USRB. |
|         |       | 1... ....  |     | TOTUSRBI   | TRACE INHIBIT BIT.           |
| 336     | (150) | CHARACTER  | 8   | TOTUSRC    | TRACE OPERAND FOR TYPE USRC. |
|         |       | 1... ....  |     | TOTUSRCI   | TRACE INHIBIT BIT.           |
| 344     | (158) | CHARACTER  | 8   | TOTUSRD    | TRACE OPERAND FOR TYPE USRD. |
|         |       | 1... ....  |     | TOTUSRDI   | TRACE INHIBIT BIT.           |
| 352     | (160) | CHARACTER  | 8   | TOTUSRE    | TRACE OPERAND FOR TYPE USRE. |
|         |       | 1... ....  |     | TOTUSREI   | TRACE INHIBIT BIT.           |
| 360     | (168) | CHARACTER  | 8   | TOTUSRF    | TRACE OPERAND FOR TYPE USRF. |
|         |       | 1... ....  |     | TOTUSRFI   | TRACE INHIBIT BIT.           |
| 368     | (170) | CHARACTER  | 8   | TOTRCVY    | TRACE OPERAND FOR TYPE RCVY. |
|         |       | 1... ....  |     | TOTRCVYI   | TRACE INHIBIT BIT.           |
| 376     | (178) | CHARACTER  | 8   | TOTTIME    | TRACE OPERAND FOR TYPE TIME. |
|         |       | 1... ....  |     | TOTTIMEI   | TRACE INHIBIT BIT.           |
| 384     | (180) | CHARACTER  | 8   | TOTSIGA    | TRACE OPERAND FOR TYPE SIGA. |
|         |       | 1... ....  |     | TOTSIGAI   | TRACE INHIBIT BIT.           |
| 392     | (188) | CHARACTER  | 0   | TOTEND     | End of TOT                   |

## TOT Constants

| Len | Type    | Value | Name    | Description      |
|-----|---------|-------|---------|------------------|
| 1   | DECIMAL | 1     | TOTLVLN | TOT level number |

## TOT Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| TOT      | 0          |           | TOTSVC   | 70         |           |
| TOTACR   | D0         |           | TOTSVCE  | 80         |           |
| TOTACRI  | D0         | 80        | TOTSVCEI | 80         | 80        |
| TOTALTR  | E0         |           | TOTSVCI  | 70         | 80        |
| TOTALTRI | E0         | 80        | TOTSVCR  | 78         |           |
| TOTBLVL  | 14         |           | TOTSVCRI | 78         | 80        |
| TOTCALL  | 60         |           | TOTTIME  | 178        |           |
| TOTCALLI | 60         | 80        | TOTTIMEI | 178        | 80        |
| TOTCLKC  | 68         |           | TOTTOTE  | 20         |           |
| TOTCLKCI | 68         | 80        | TOTUSRA  | 140        |           |
| TOTCSCH  | 38         |           | TOTUSRAI | 140        | 80        |
| TOTCSCHI | 38         | 80        | TOTUSRB  | 148        |           |
| TOTDATE  | 4          |           | TOTUSRBI | 148        | 80        |
| TOTDSP   | A0         |           | TOTUSRC  | 150        |           |
| TOTDSPI  | A0         | 80        | TOTUSRCI | 150        | 80        |
| TOTEMS   | 50         |           | TOTUSRD  | 158        |           |
| TOTEMSI  | 50         | 80        | TOTUSRDI | 158        | 80        |
| TOTEND   | 188        |           | TOTUSRE  | 160        |           |
| TOTEXT   | 48         |           | TOTUSREI | 160        | 80        |
| TOTEXTI  | 48         | 80        | TOTUSRF  | 168        |           |
| TOTHSCH  | 30         |           | TOTUSRFI | 168        | 80        |
| TOTHSCHI | 30         | 80        | TOTUSR0  | F0         |           |
| TOTID    | 0          |           | TOTUSR0I | F0         | 80        |
| TOTIO    | 98         |           | TOTUSR1  | F8         |           |
| TOTIOI   | 98         | 80        | TOTUSR1I | F8         | 80        |
| TOTMCH   | C0         |           | TOTUSR2  | 100        |           |
| TOTMCHI  | C0         | 80        | TOTUSR2I | 100        | 80        |
| TOTMLVL  | C          |           | TOTUSR3  | 108        |           |
| TOTMSCH  | 28         |           | TOTUSR3I | 108        | 80        |
| TOTMSCHI | 28         | 80        | TOTUSR4  | 110        |           |
| TOTNUME  | 18         |           | TOTUSR4I | 110        | 80        |
| TOTPGM   | 88         |           | TOTUSR5  | 118        |           |
| TOTPGMI  | 88         | 80        | TOTUSR5I | 118        | 80        |
| TOTRCVY  | 170        |           | TOTUSR6  | 120        |           |
| TOTRCVYI | 170        | 80        | TOTUSR6I | 120        | 80        |
| TOTRSCH  | 40         |           | TOTUSR7  | 128        |           |
| TOTRSCHI | 40         | 80        | TOTUSR7I | 128        | 80        |
| TOTRSD1  | 15         |           | TOTUSR8  | 130        |           |
| TOTRSD2  | 1C         |           | TOTUSR8I | 130        | 80        |
| TOTRST   | C8         |           | TOTUSR9  | 138        |           |
| TOTRSTI  | C8         | 80        | TOTUSR9I | 138        | 80        |
| TOTSIGA  | 180        |           | TOTWAIT  | B8         |           |
| TOTSIGAI | 180        | 80        | TOTWAITI | B8         | 80        |
| TOTSPER  | 90         |           |          |            |           |
| TOTSPERI | 90         | 80        |          |            |           |
| TOTSRB   | A8         |           |          |            |           |
| TOTSRBI  | A8         | 80        |          |            |           |
| TOTSS    | 58         |           |          |            |           |
| TOTSSCH  | 20         |           |          |            |           |
| TOTSSCHI | 20         | 80        |          |            |           |
| TOTSSI   | 58         | 80        |          |            |           |
| TOTSSRB  | B0         |           |          |            |           |
| TOTSSRBI | B0         | 80        |          |            |           |
| TOTSSRV  | E8         |           |          |            |           |
| TOTSSRVI | E8         | 80        |          |            |           |
| TOTSUSP  | D8         |           |          |            |           |
| TOTSUSPI | D8         | 80        |          |            |           |





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## TPC Programming Interface information

Programming Interface information

### TPC

**ONLY** the following field is part of the programming interface information:

- TPCSDIE

End of Programming Interface information

## TPC Heading Information

**Common Name:** TIMER SUPERVISION WORK AREA  
**Macro ID:** IEAVVTPC  
**DSECT Name:** TPC  
**Owning Component:** TIMER SUPERVISION (SC1CV)  
**Eye-Catcher ID:** ' TPC'  
 Offset: 0  
 Length: 4  
**Storage Attributes:** Subpool: 245  
 Key: 0  
 Residency: below 16 Meg line  
**Size:** 424 BYTES (DECIMAL)  
**Created by:** IEATPC  
**Pointed to by:** CVTTPC  
**Serialization:** Dispatcher lock  
**Function:** PROVIDE DATA MAPPING OF THE TPC.

## TPC Map

| Offsets |      |            |     |            |                                                                                                                                        |
|---------|------|------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                            |
| 0       | (0)  | STRUCTURE  | 0   | TPC        | ,TPCPTR                                                                                                                                |
| 0       | (0)  | DBL WORD   | 8   | IEATPC (0) | TIMER SUPERVISION WORK AREA                                                                                                            |
| 0       | (0)  | CHARACTER  | 4   | TPCTPCA    | TPC IDENTIFICATION                                                                                                                     |
| 4       | (4)  | BITSTRING  | 1   | TPCFLGS1   | TPCA FLAG BYTE 1                                                                                                                       |
|         |      | 1... ....  |     | TPCABND    | "X'80" REAL TQES ABENDED                                                                                                               |
|         |      | .1.. ....  |     | TPCSYNC    | "X'40" SYNC CHECK OCCURRED                                                                                                             |
|         |      | ..1. ....  |     | TPCUNKWN   | "X'20" IO CLOCK STAT UNKNOWN                                                                                                           |
|         |      | ...1 ....  |     | TPCPRMPT   | "X'10" OPERATOR PROMPTING REQUIRED DURING TOD<br>CLOCK INITIALIZATION. CONTROLLED BY SYS1.PARMLIB<br>MEMBER CLOCKXX OPERATOR STATEMENT |
|         |      | .... 1...  |     | TPCIPLSC   | "X'08" TOD SYNC CHECK OCCURRED DURING IPL                                                                                              |
|         |      | .... .1..  |     | TPCSIM     | "X'04" SIMETRID SPECIFIED IN SYS1.PARMLIB MEMBER<br>CLOCKXX                                                                            |
|         |      | .... ..1.  |     | TPCDIAG220 | "X'02" Diagnose 220 is available to retrieve the epoch value.                                                                          |
|         |      | .... ...1  |     | TPCSTCKE   | "X'01" STCKE and related hardware installed                                                                                            |
| 5       | (5)  | BITSTRING  | 2   |            | RESERVED                                                                                                                               |
| 7       | (7)  | BITSTRING  | 1   | TPCCC      | STCK CONDITION CODE                                                                                                                    |
| 8       | (8)  | SIGNED     | 4   | TPCTZORG   | IPL TIME ZONE CONSTANT                                                                                                                 |
| 12      | (C)  | ADDRESS    | 4   | TPCHDCCQ   | HEAD OF REAL TIME QUEUE                                                                                                                |
| 16      | (10) | CHARACTER  | 4   | TPCDMTQE   | DUMMY TQE                                                                                                                              |
| 20      | (14) | ADDRESS    | 4   | DFD        | DUMMY TQE                                                                                                                              |
| 24      | (18) | ADDRESS    | 4   |            | DUMMY TQE                                                                                                                              |
| 28      | (1C) | SIGNED     | 2   |            | DUMMY TQE                                                                                                                              |
| 30      | (1E) | BITSTRING  | 1   |            | DUMMY TQE                                                                                                                              |
| 31      | (1F) | BITSTRING  | 1   |            | DUMMY TQE                                                                                                                              |
| 32      | (20) | BITSTRING  | 8   |            | DUMMY TQE                                                                                                                              |
| 40      | (28) | CHARACTER  | 4   | TPCMNTQE   | MIDNIGHT TQE                                                                                                                           |
| 44      | (2C) | SIGNED     | 4   |            | MIDNIGHT TQE                                                                                                                           |
| 48      | (30) | SIGNED     | 4   |            | MIDNIGHT TQE                                                                                                                           |
| 52      | (34) | SIGNED     | 2   |            | MIDNIGHT TQE                                                                                                                           |
| 54      | (36) | BITSTRING  | 1   |            | MIDNIGHT TQE                                                                                                                           |
| 55      | (37) | BITSTRING  | 1   |            | MIDNIGHT TQE                                                                                                                           |
| 56      | (38) | SIGNED     | 4   | MNIGHT (2) | MIDNIGHT TQE                                                                                                                           |
| 64      | (40) | CHARACTER  | 4   | TPCMFTQE   | RMF TQE                                                                                                                                |
| 68      | (44) | SIGNED     | 4   |            | RMF TQE                                                                                                                                |
| 72      | (48) | SIGNED     | 4   |            | RMF TQE                                                                                                                                |
| 76      | (4C) | SIGNED     | 2   |            | RMF TQE                                                                                                                                |
| 78      | (4E) | BITSTRING  | 1   |            | RMF TQE                                                                                                                                |
| 79      | (4F) | BITSTRING  | 1   |            | RMF TQE                                                                                                                                |

| Offsets |       |            |     |              |                                              |
|---------|-------|------------|-----|--------------|----------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim)   | Description                                  |
| 80      | (50)  | SIGNED     | 4   | (2)          | RMF TQE                                      |
| 88      | (58)  | CHARACTER  | 4   | IEATSELM     | SYSTEM RESOURCES MANAGER TQE                 |
| 92      | (5C)  | SIGNED     | 4   |              | SYSTEM RESOURCES MANAGER TQE                 |
| 96      | (60)  | SIGNED     | 4   |              | SYSTEM RESOURCES MANAGER TQE                 |
| 100     | (64)  | SIGNED     | 2   |              | SYSTEM RESOURCES MANAGER TQE                 |
| 102     | (66)  | BITSTRING  | 1   |              | SYSTEM RESOURCES MANAGER TQE                 |
| 103     | (67)  | BITSTRING  | 1   |              | SYSTEM RESOURCES MANAGER TQE                 |
| 104     | (68)  | SIGNED     | 4   | (2)          | SYSTEM RESOURCES MANAGER TQE                 |
| 112     | (70)  | CHARACTER  | 4   | TPCLMTQE     | TIME LIMIT CHECKING TQE                      |
| 116     | (74)  | SIGNED     | 4   |              | TIME LIMIT CHECKING TQE                      |
| 120     | (78)  | SIGNED     | 4   |              | TIME LIMIT CHECKING TQE                      |
| 124     | (7C)  | SIGNED     | 2   |              | TIME LIMIT CHECKING TQE                      |
| 126     | (7E)  | BITSTRING  | 1   |              | TIME LIMIT CHECKING TQE                      |
| 127     | (7F)  | BITSTRING  | 1   |              | TIME LIMIT CHECKING TQE                      |
| 128     | (80)  | SIGNED     | 4   | (2)          | TIME LIMIT CHECKING TQE                      |
| 136     | (88)  | SIGNED     | 4   | TPCIDCNT     | COUNT OF LAST STIMERM ID ASSIGNED            |
| 140     | (8C)  | ADDRESS    | 4   | TPCSTPC      | ADDRESS OF SECONDARY TIMER WORK AREA (STPC). |
| 144     | (90)  | CHARACTER  | 4   | TPCSSTQE     | ETR SUBSET MONITOR TQE                       |
| 148     | (94)  | SIGNED     | 4   |              | ETR SUBSET MONITOR TQE                       |
| 152     | (98)  | SIGNED     | 4   |              | ETR SUBSET MONITOR TQE                       |
| 156     | (9C)  | SIGNED     | 2   |              | ETR SUBSET MONITOR TQE                       |
| 158     | (9E)  | BITSTRING  | 1   |              | ETR SUBSET MONITOR TQE                       |
| 159     | (9F)  | BITSTRING  | 1   |              | ETR SUBSET MONITOR TQE                       |
| 160     | (A0)  | SIGNED     | 4   | (2)          | ETR SUBSET MONITOR TQE                       |
| 168     | (A8)  | BITSTRING  | 90  | TPCRS0A8     | RESERVED                                     |
| 258     | (102) | SIGNED     | 2   | TPCSYSNM     | HW copy of CPLXSYSNUM                        |
| 260     | (104) | ADDRESS    | 4   | TPCESMR      | "V(IEATESMR)" ADDRESS OF IEATESMR            |
| 264     | (108) | SIGNED     | 4   | TPCWORK (2)  | WORK AREA                                    |
| 272     | (110) | SIGNED     | 4   | TPCMISC (18) | WORK AREA                                    |
| 344     | (158) | ADDRESS    | 4   | TPCVPTR      | "V(IEAVRNEW)" ADDR OF VARY ONLINE ROUTINE    |
| 348     | (15C) | ADDRESS    | 4   | TPCFRRP      | "V(IEAVRFRR)" ADDR OF TIMER FRR              |
| 352     | (160) | SIGNED     | 4   | TPCCRSVAV    | SAVE AREA FOR CR 0                           |
| 356     | (164) | SIGNED     | 4   | TPCTCWA      | ADDR OF TOD WORKAREA                         |
| 360     | (168) | SIGNED     | 4   | TPCRSRB (11) |                                              |
| 404     | (194) | ADDRESS    | 4   | TPCCKQ       | "V(IEAVRCKQ)" ADDRESS OF IEAVRCKQ            |
| 408     | (198) | ADDRESS    | 4   | TPCCLA       | ADDRESS OF IEAVRCLA                          |
| 412     | (19C) | ADDRESS    | 4   | TPCSDIE      | "V(IEAVRDIE)" ADDRESS OF SETDIE              |
| 416     | (1A0) | ADDRESS    | 4   | TPCOCL       | "V(IEAVROCL)" ADDRESS OF IEAVROCL            |
| 420     | (1A4) | ADDRESS    | 4   | TPCTTOC      | "V(IEATTOC)" ADDRESS OF IEATTOC              |

TPC Cross Reference

| Name       | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|------------|------------|-----------|----------|------------|-----------|
| DFD        | 14         |           | TPCMISC  | 110        | 0         |
| IEATPC     | 0          |           | TPCMNTQE | 28         | 40E3D8C5  |
| IEATSELM   | 58         | 40E3D8C5  | TPCOCL   | 1A0        |           |
| MNIGHT     | 38         | 0         | TPCPRMPT | 4          | 10        |
| TPC        | 0          |           | TPCRSRB  | 168        | 0         |
| TPCABND    | 4          | 80        | TPCRS0A8 | A8         |           |
| TPCCC      | 7          | 0         | TPCSDIE  | 19C        |           |
| TPCCKQ     | 194        |           | TPCSIM   | 4          | 4         |
| TPCCLA     | 198        |           | TPCSSTQE | 90         | 40E3D8C5  |
| TPCCRSVAV  | 160        | 0         | TPCSTCKE | 4          | 1         |
| TPCDIAG220 | 4          | 2         | TPCSTPC  | 8C         |           |
| TPCDMTQE   | 10         | 40E3D8C5  | TPCSYNC  | 4          | 40        |
| TPCESMR    | 104        |           | TPCSYSNM | 102        | 0         |
| TPCFLGS1   | 4          | 0         | TPCTCWA  | 164        | 0         |
| TPCFRRP    | 15C        |           | TPCTPCA  | 0          | 40E3D7C3  |
| TPCHDCCQ   | C          |           | TPCTTOC  | 1A4        |           |
| TPCIDCNT   | 88         | 0         | TPCTZORG | 8          | 0         |
| TPCIPLSC   | 4          | 8         | TPCUNKWN | 4          | 20        |
| TPCLMTQE   | 70         | 40E3D8C5  | TPCVPTR  | 158        |           |
| TPCMFTQE   | 40         | 40E3D8C5  | TPCWORK  | 108        | 0         |



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## TQE Programming Interface Information

Programming Interface Information

### TQE

**ONLY** the following fields are part of the programming interface:

- TQEID
- TQEAMODE
- TQEASCB
- TQEDREGS
- TQEEXIT
- TQETCB
- TQEVAL
- TQEXMODE

End of Programming Interface Information

## TQE Heading Information

**Common Name:** Timer Queue Element  
**Macro ID:** IHATQE  
**DSECT Name:** TQE  
**Owning Component:** Timer Supervisor (SC1CV)  
**Subpool and Key:** 253 (task) or 245 (real/wait) and key 0  
 (Residence - above the line)  
**Size:** 128 bytes  
**Created by:** IEAVRT00 (STIMER function) or SETDIE user  
**Pointed to by:** PCCATQEP field of the PCCA data area  
 TQEFLNK field of the TQE data area (forward link)  
 TQEBLNK field of the TQE data area (backward link)  
 TCBTQE field of the TCB data area  
**Serialization:** Dispatcher lock  
**Function:** Each TQE represents a time interval.

## TQE Map

| Offsets |      |            |     |               |                                                                                                                                       |
|---------|------|------------|-----|---------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)    | Description                                                                                                                           |
| 0       | (0)  | STRUCTURE  | 0   | TQE           | ,TQEPTR TIMER QUEUE ELEMENT                                                                                                           |
| 0       | (0)  | DBL WORD   | 8   | (0)           |                                                                                                                                       |
| 0       | (0)  | CHARACTER  | 4   | TQETQE        | TQE IDENTIFICATION                                                                                                                    |
| 4       | (4)  | ADDRESS    | 4   | TQEFLNK       | ADDRESS OF NEXT TQE                                                                                                                   |
| 8       | (8)  | ADDRESS    | 4   | TQEBLNK       | ADDRESS OF PREVIOUS TQE                                                                                                               |
| 12      | (C)  | SIGNED     | 2   | TQE Aid       | REQUESTORS ASID                                                                                                                       |
| 14      | (E)  | BITSTRING  | 1   | TQEFLGS       | TQE FLAG BYTE 1                                                                                                                       |
|         |      | 1... ....  |     | TQEOFF        | "X'80" TQE IS OFF TIMER QUEUE                                                                                                         |
|         |      | .1.. ....  |     | TQETOD        | "X'40" TOD OPTION SPECIFIED                                                                                                           |
|         |      | ..1. ....  |     | TQEGMT        | "X'20" GMT OPTION SPECIFIED                                                                                                           |
|         |      | ...1 ....  |     | TQEWLIM       | "X'10" WAIT LIMIT EXCEEDED                                                                                                            |
|         |      | .... 1..   |     | TQEINCOM      | "X'08" INTERVAL IS COMPLETE                                                                                                           |
|         |      | .... .1..  |     | TQEXITSP      | "X'04" AN EXIT WAS SPECIFIED                                                                                                          |
|         |      | .... ..11  |     | TQETYPE       | "X'03" TQE TYPE 00=TASK TYPE 01=WAIT TYPE 11=REAL TYPE                                                                                |
| 15      | (F)  | BITSTRING  | 1   | TQEFLGS2      | TQE FLAG BYTE 2                                                                                                                       |
|         |      | 1... ....  |     | TQECOMP       | "X'80" REAL TQE IS BEING TIMED                                                                                                        |
|         |      | .1.. ....  |     | TQEUSER       | "X'40" NON SYSTEM TQE                                                                                                                 |
|         |      | ..1. ....  |     | TQEETRSS      | "X'20" ETR SUBSET MONITOR TQE                                                                                                         |
|         |      | ...1 ....  |     | TQEDUM        | "X'10" DUMMY SYSTEM TQE                                                                                                               |
|         |      | .... 1..   |     | TQELM         | "X'08" TIME LIMIT CHECKING SYSTEM TQE                                                                                                 |
|         |      | .... .1..  |     | TQEOPT        | "X'04" SYSTEM RESOURCES MANAGER TQE                                                                                                   |
|         |      | .... ..1.  |     | TQEMF1        | "X'02" RMF SYSTEM TQE                                                                                                                 |
|         |      | .... ...1  |     | TQEMIDN       | "X'01" MIDNIGHT SYSTEM TQE                                                                                                            |
| 16      | (10) | SIGNED     | 4   | TQEVAL (2)    | EXPIRATION TIME OR TIME LEFT                                                                                                          |
| 24      | (18) | ADDRESS    | 4   | TQESADDR      | ADDRESS OF PP SAVE AREA                                                                                                               |
| 28      | (1C) | ADDRESS    | 4   | TQEEXIT       | ADDRESS OF USER EXIT RTN                                                                                                              |
|         |      | 1... ....  |     | TQEXMODE      | "X'80" AMODE OF EXIT ROUTINE                                                                                                          |
| 28      | (1C) | X'1C'      | 0   | TQEECB        | "TQEEXIT" ECB IF WAIT TYPE TQE                                                                                                        |
| 32      | (20) | ADDRESS    | 4   | TQETCB        | ADDRESS OF USER TCB                                                                                                                   |
| 36      | (24) | ADDRESS    | 4   | TQEASCB       | ADDRESS OF USER ASCB                                                                                                                  |
| 40      | (28) | SIGNED     | 4   | TQELHPSW      | FIRST WORD OF CURRENT PSW                                                                                                             |
| 44      | (2C) | CHARACTER  | 44  | TQESRB        | SRB                                                                                                                                   |
| 44      | (2C) | SIGNED     | 4   | TQEDREGS (11) | DIE ENTRY.                                                                                                                            |
| 88      | (58) | BITSTRING  | 1   | TQEFLGS3      | TQE FLAG BYTE 3                                                                                                                       |
|         |      | 1... ....  |     | TQEDIE        | "X'80" DIE TQE                                                                                                                        |
|         |      | .1.. ....  |     | TQEAMODE      | "X'40" EXIT AMODE IN TQEXMODE                                                                                                         |
|         |      | ..1. ....  |     | TQEPURGE      | "X'20" TQE SHOULD BE PURGED BY IEAVRSAE WHEN IT GETS CONTROL AS A RESULT OF AN ERROR DURING STIMER(M) WAIT. SERIALIZATION: LOCAL LOCK |

| Offsets |      |            |     |             |                                                    |
|---------|------|------------|-----|-------------|----------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)  | Description                                        |
| 89      | (59) | BITSTRING  | 2   | TQERS059    | RESERVED                                           |
| 91      | (5B) | BITSTRING  | 1   | TQELEVEL    | - TQE LEVEL INDICATOR                              |
| 92      | (5C) | SIGNED     | 4   | TQEID       | - STIMER REQUEST ID                                |
| 96      | (60) | ADDRESS    | 4   | TQELINK     | - ADDRESS OF NEXT TQE ON ACTIVE TQE (TCBTME) QUEUE |
| 100     | (64) | SIGNED     | 4   | TQEPARAM    | - USER EXIT ROUTINE PARAMETER                      |
| 104     | (68) | BITSTRING  | 12  | TQERS068    | RESERVED                                           |
| 116     | (74) | SIGNED     | 4   | TQERSAVE    | REG SAVE AREA -SETDIE                              |
| 120     | (78) | SIGNED     | 4   | TQESTCK (2) | STCK AREA FOR SETDIE                               |
| 120     | (78) | X'78'      | 0   | TQESTCKL    | "TQESTCK" STCK AREA-LEFT HALF                      |
| 120     | (78) | X'7C'      | 0   | TQESTCKR    | "TQESTCK+4" STCK AREA-RIGHT HALF                   |
| 128     | (80) | CHARACTER  | 1   | TQEEND (0)  | END OF TQE                                         |
| 128     | (80) | X'80'      | 0   | TQELEN      | "TQEEND-TQE" LENGTH OF TQE                         |

### TQE Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| TQE      | 0          |           | TQEXITSP | E          | 4         |
| TQE AID  | C          |           | TQEXMODE | 1C         | 80        |
| TQEAMODE | 58         | 40        |          |            |           |
| TQEASCB  | 24         |           |          |            |           |
| TQE BLNK | 8          |           |          |            |           |
| TQECOMP  | F          | 80        |          |            |           |
| TQEDIE   | 58         | 80        |          |            |           |
| TQEDREGS | 2C         |           |          |            |           |
| TQEDUM   | F          | 10        |          |            |           |
| TQE ECB  | 1C         | 1C        |          |            |           |
| TQEEND   | 80         |           |          |            |           |
| TQEETRSS | F          | 20        |          |            |           |
| TQEEXIT  | 1C         |           |          |            |           |
| TQEFLGS  | E          |           |          |            |           |
| TQEFLGS2 | F          |           |          |            |           |
| TQEFLGS3 | 58         |           |          |            |           |
| TQEFLNK  | 4          |           |          |            |           |
| TQEGMT   | E          | 20        |          |            |           |
| TQEID    | 5C         |           |          |            |           |
| TQEINCOM | E          | 8         |          |            |           |
| TQELEN   | 80         | 80        |          |            |           |
| TQELEVEL | 5B         |           |          |            |           |
| TQELHPSW | 28         |           |          |            |           |
| TQELINK  | 60         |           |          |            |           |
| TQELM    | F          | 8         |          |            |           |
| TQEMF1   | F          | 2         |          |            |           |
| TQEMIDN  | F          | 1         |          |            |           |
| TQE OFF  | E          | 80        |          |            |           |
| TQE OPT  | F          | 4         |          |            |           |
| TQEPARAM | 64         |           |          |            |           |
| TQEPURGE | 58         | 20        |          |            |           |
| TQERSAVE | 74         |           |          |            |           |
| TQERS059 | 59         |           |          |            |           |
| TQERS068 | 68         |           |          |            |           |
| TQESADDR | 18         |           |          |            |           |
| TQESRB   | 2C         |           |          |            |           |
| TQESTCK  | 78         |           |          |            |           |
| TQESTCKL | 78         | 78        |          |            |           |
| TQESTCKR | 78         | 7C        |          |            |           |
| TQETCB   | 20         |           |          |            |           |
| TQETOD   | E          | 40        |          |            |           |
| TQETQE   | 0          |           |          |            |           |
| TQETYPE  | E          | 3         |          |            |           |
| TQEUSER  | F          | 40        |          |            |           |
| TQEVAL   | 10         |           |          |            |           |
| TQEWLIM  | E          | 10        |          |            |           |





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**TRBP Programming Interface information**

Programming Interface information

TRBP

End of Programming Interface information

## TRBP Heading Information

**Common Name:** RESOURCES MANAGER TRANSACTION REPORTING BASIC PARAMETER LIST  
**Macro ID:** IHATRBPL  
**DSECT Name:** TRBP  
**Owning Component:** SYSTEMS RESOURCE MANAGER (SC1CX)  
**Eye-Catcher ID:** NONE  
**Storage Attributes:** Subpool: VARIABLE  
 Key: VARIABLE  
**Size:** 40 BYTES  
**Created by:** ISSUERS OF TRANSACTION-REPORTING SYSEVENTS  
 TRAXRPT AND TRAXFRPT  
**Pointed to by:** THE ADDRESS OF THE TRBP IS CONTAINED IN  
 REGISTER 1 WHEN THE SYSEVENT IS ISSUED.  
**Serialization:** NONE  
**Function:** THE TRBP MAPS THE PARAMETER LIST PASSED BY  
 CALLERS OF THE TRANSACTION REPORTING SYSEVENTS  
 TRAXRPT AND TRAXFRPT. THIS IS A BASIC PARAMETER  
 LIST CONTAINING THE TIME AND TRANSACTION DESCRIPTION.

## TRBP Map

| Offsets |      |            |     |              |                                                   |
|---------|------|------------|-----|--------------|---------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                       |
| 0       | (0)  | STRUCTURE  | 0   | TRBP         |                                                   |
| 0       | (0)  | DBL WORD   | 8   | TRBPSTIM     | - TRANSACTION START TIME (STCK FORMAT)            |
| 0       | (0)  | X'0'       | 0   | TRBPETIM     | "TRBPSTIM" - FULL WORD ELAPSED TIME (1.024 MS)    |
| 0       | (0)  | X'4'       | 0   | TRBPRSVD     | "TRBPSTIM+4" - RESERVED                           |
| 8       | (8)  | DBL WORD   | 8   | TRBPICSP (0) | TRANSACTION DESCRIPTION                           |
| 8       | (8)  | CHARACTER  | 8   | TRBPSSNM     | - SUBSYSTEM NAME                                  |
| 16      | (10) | CHARACTER  | 8   | TRBPTRXN     | - TRANSACTION NAME                                |
| 24      | (18) | CHARACTER  | 8   | TRBPUSID     | - USERID                                          |
| 32      | (20) | CHARACTER  | 8   | TRBPTRXC     | - TRANSACTION CLASS                               |
| 36      | (24) | SIGNED     | 4   | TRBPREF      | FIELD TO PERMIT REFERENCING END OF PARAMETER LIST |
| 40      | (28) | DBL WORD   | 8   | TRBPEND (0)  | - END OF TRBP TABLE                               |
| 40      | (28) | X'28'      | 0   | TRBPLEN      | "TRBPEND-TRBP" - LENGTH OF TRBP TABLE             |

## TRBP Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| TRBP     | 0          |           |
| TRBPEND  | 28         |           |
| TRBPETIM | 0          | 0         |
| TRBPICSP | 8          |           |
| TRBPLEN  | 28         | 28        |
| TRBPREF  | 24         |           |
| TRBPRSVD | 0          | 4         |
| TRBPSSNM | 8          |           |
| TRBPSTIM | 0          |           |
| TRBPTRXC | 20         |           |
| TRBPTRXN | 10         |           |
| TRBPUSID | 18         |           |

## TRCT Heading Information

**Common Name:** System Trace COPYTRC Parameter List  
**Macro ID:** IHATRCT  
**DSECT Name:** TRCT  
**Owning Component:** System Trace (SC142)  
**Subpool and Key:** Any subpool, key 0 (Residence - above 16M line)  
**Size:** 24 bytes  
**Created by:** IEAVTSDM - SVC Dump Trace routine  
 IEAVETNP - System Trace Formatter Dump Data  
 Initialization Routine  
 IEAVETPW - System Trace Formatter Prime Work Buffer Routine  
 IEAVETRW - System Trace Formatter Refill Work Buffer Routine  
**Pointed to by:** Parameter list passed to COPYTRC service.  
**Serialization:** N/A  
**Function:** Contains parameters for system trace table snapshot data extraction routine (IEAVETSD).

### TRCT Map

| Offsets |      |           |     |            |                                                                   |
|---------|------|-----------|-----|------------|-------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                       |
| 0       | (0)  | STRUCTURE | 24  | TRCT       | SYSTEM TRACE DATA COPYTRC PARAMETER LIST.                         |
| 0       | (0)  | CHARACTER | 4   | TRCTID     | TRCT EBCDIC IDENTIFIER.                                           |
| 4       | (4)  | UNSIGNED  | 1   | TRCTBLVL   | CONTROL BLOCK LEVEL NUMBER.                                       |
| 5       | (5)  | CHARACTER | 3   | TRCTRSV1   | RESERVED.                                                         |
| 8       | (8)  | ADDRESS   | 4   | TRCTTTCH   | TTCH ADDRESS.                                                     |
| 12      | (C)  | ADDRESS   | 4   | TRCTFROM   | SOURCE ADDRESS WITHIN TTCH FOR DATA COPY.                         |
| 16      | (10) | UNSIGNED  | 4   | TRCTLEN    | LENGTH OF DATA TO BE COPIED.                                      |
| 20      | (14) | ADDRESS   | 4   | TRCTTO     | TARGET ADDRESS IN PRIMARY ADDRESS SPACE OF INVOKER FOR DATA COPY. |
| 24      | (18) | CHARACTER | 0   | TRCTEND    | END OF TRCT.                                                      |

### TRCT Constants

| Len | Type    | Value | Name     | Description        |
|-----|---------|-------|----------|--------------------|
| 1   | DECIMAL |       | TRCTLVLN | TRCT LEVEL NUMBER. |

## TRCT Constants

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**TREP Programming Interface information**

Programming Interface information

TREP

End of Programming Interface information

## TREP Heading Information

**Common Name:** RESOURCES MANAGER TRANSACTION REPORTING EXTENDED PARAMETER LIST

**Macro ID:** IHATREPL

**DSECT Name:** TREP

**Owning Component:** SYSTEMS RESOURCE MANAGER (SC1CX)

**Eye-Catcher ID:** NONE

**Storage Attributes:** Subpool: VARIABLE  
Key: VARIABLE

**Size:** 72 BYTES

**Created by:** ISSUERS OF TRANSACTION-REPORTING SYSEVENT TRAXERPT

**Pointed to by:** THE ADDRESS OF THE TREP IS CONTAINED IN REGISTER 1 WHEN THE SYSEVENT IS ISSUED.

**Serialization:** NONE

**Function:** THE TREP MAPS THE PARAMETER LIST PASSED BY CALLERS OF THE TRANSACTION REPORTING SYSEVENT TRAXERPT. THIS IS AN EXTENDED PARAMETER LIST CONTAINING THE TIME, TRANSACTION DESCRIPTION, AND SERVICE DATA.

## TREP Map

| Offsets |      |            |     |              |                                                                                |
|---------|------|------------|-----|--------------|--------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                    |
| 0       | (0)  | STRUCTURE  | 0   | TREP         |                                                                                |
| 0       | (0)  | SIGNED     | 4   | TREPREF (0)  | FIELD TO PERMIT REFERENCING FIRST WORD IN PARM LIST                            |
| 0       | (0)  | DBL WORD   | 8   | TREPSTIM     | - TRANSACTION START TIME (STCK FORMAT)                                         |
| 8       | (8)  | DBL WORD   | 8   | TREPICSV (0) | - DESCRIPTION/SERVICE                                                          |
| 8       | (8)  | DBL WORD   | 8   | TREPICSP (0) | - TRANSACTION DESCRIPTION                                                      |
| 8       | (8)  | CHARACTER  | 8   | TREPSSNM     | - SUBSYSTEM NAME                                                               |
| 16      | (10) | CHARACTER  | 8   | TREPTRXN     | - TRANSACTION NAME                                                             |
| 24      | (18) | CHARACTER  | 8   | TREPUSID     | - USERID                                                                       |
| 32      | (20) | CHARACTER  | 8   | TREPTRXC     | - TRANSACTION CLASS                                                            |
| 40      | (28) | DBL WORD   | 8   | TREPSVCE (0) | - SERVICE PARAMETERS                                                           |
| 40      | (28) | DBL WORD   | 8   | TREPCPUT     | - CPU TIME (STCK FORMAT)                                                       |
| 48      | (30) | DBL WORD   | 8   | TREPSRBT     | - SRB TIME (STCK FORMAT)                                                       |
| 56      | (38) | DBL WORD   | 8   | TREPMSOT     | - MAIN STORAGE OCCUPANCY (PAGE-MSECS)                                          |
| 64      | (40) | SIGNED     | 4   | TREPIOCT     | - LOGICAL I/O COUNT                                                            |
| 68      | (44) | CHARACTER  | 1   | TREPFLGS     | - FLAG BITS                                                                    |
|         |      | 1... ....  |     | TREPDCTI     | "BIT0" - 1 IF TREPIOCT CONTAINS DCTI, 0 IF TREPIOCT CONTAINS LOGICAL I/O COUNT |
| 69      | (45) | CHARACTER  | 3   | TREPRSD      | - RESERVED                                                                     |
| 72      | (48) | DBL WORD   | 8   | TREPEND (0)  | - END OF TREP TABLE                                                            |
| 72      | (48) | X'48'      | 0   | TREPLEN      | "TREPEND-TREP" - LENGTH OF TREP TABLE                                          |

## TREP Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| TREP     | 0             |              |
| TREPCPUT | 28            |              |
| TREPDCTI | 44            | 80           |
| TREPEND  | 48            |              |
| TREPFLGS | 44            |              |
| TREPICSP | 8             |              |
| TREPICSV | 8             |              |
| TREPIOCT | 40            |              |
| TREPLEN  | 48            | 48           |
| TREPMSOT | 38            |              |
| TREPREF  | 0             |              |
| TREPRSVD | 45            |              |
| TREPSRBT | 30            |              |
| TREPSSNM | 8             |              |
| TREPSTIM | 0             |              |
| TREPSVCE | 28            |              |
| TREPTRXC | 20            |              |
| TREPTRXN | 10            |              |
| TREPUSID | 18            |              |





## TRFM Heading Information

**Common Name:** System Trace Table Format Request Parameter List  
**Macro ID:** IHATRFM  
**DSECT Name:** TRFM  
**Owning Component:** System Trace (SC142)  
**Subpool and Key:** Any subpool, key 0 (Residence - above 16M line)  
**Size:** 24 bytes  
**Created by:** IEAVAD0C - Supervisor Trace formatting  
**Pointed to by:** Parameter list passed to system trace formatter controller (IEAVETFC).  
**Serialization:** N/A  
**Function:** Contain information about a request to format a system trace table.

### TRFM Map

| Offsets |      |            |     |            |                                                                                                                                                                      |
|---------|------|------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                                          |
| 0       | (0)  | STRUCTURE  | 24  | TRFM       | TRACE TABLE FORMAT REQUEST PARAMETER LIST.                                                                                                                           |
| 0       | (0)  | CHARACTER  | 4   | TRFMID     | TRFM EBCDIC IDENTIFIER.                                                                                                                                              |
| 4       | (4)  | UNSIGNED   | 1   | TRFMBLVL   | CONTROL BLOCK VERSION NUMBER.                                                                                                                                        |
| 5       | (5)  | CHARACTER  | 3   | TRFMRSV1   | RESERVED.                                                                                                                                                            |
| 8       | (8)  | ADDRESS    | 4   | TRFMTTCH   | ADDRESS OF THE TTCH.                                                                                                                                                 |
| 12      | (C)  | ADDRESS    | 4   | TRFMASD    | ADDRESS OF ASIDLIST. THE ASIDLIST CONSISTS OF PAIRS OF ASID RANGES. THE LIST MUST CONTAIN A 0TH ENTRY WITH TWO ZERO ASIDS. THE 0TH ENTRY IS NOT COUNTED IN TRFMASCT. |
| 16      | (10) | BITSTRING  | 1   | TRFMOPT1   | TRACE TABLE FORMAT OPTIONS BYTE 1.                                                                                                                                   |
|         |      | 1... ....  |     | TRFMALL    | FORMAT TTES FOR ALL ASIDS.                                                                                                                                           |
|         |      | .1.. ....  |     | TRFMCUR    | FORMAT TTES FOR THE CURRENT ADDRESS SPACE.                                                                                                                           |
|         |      | ..1. ....  |     | TRFMFAS    | FILTER TTCH TRACE ENTRIES USING ASIDLIST.                                                                                                                            |
|         |      | ...1 ....  |     | TRFMBR     | FORMAT BRANCH TTES.                                                                                                                                                  |
|         |      | .... 1111  |     | *          | RESERVED.                                                                                                                                                            |
| 17      | (11) | BITSTRING  | 1   | TRFMRSV2   | RESERVED.                                                                                                                                                            |
| 18      | (12) | UNSIGNED   | 2   | TRFMASCT   | COUNT OF ASID RANGES IN THE ASIDLIST (EXCLUDING 0TH ENTRY).                                                                                                          |
| 20      | (14) | UNSIGNED   | 4   | TRFMRSV3   | RESERVED.                                                                                                                                                            |
| 24      | (18) | CHARACTER  | 0   | TRFMEND    | END OF TRFM.                                                                                                                                                         |

### TRFM Constants

| Len | Type    | Value | Name     | Description        |
|-----|---------|-------|----------|--------------------|
| 1   | DECIMAL |       | TRFMLVLN | TRFM LEVEL NUMBER. |

### TRFM Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| TRFM     | 0          |           | TRFMRSV2 | 11         |           |
| TRFMALL  | 10         | 80        | TRFMRSV3 | 14         |           |
| TRFMASCT | 12         |           | TRFMTTCH | 8          |           |
| TRFMASD  | C          |           |          |            |           |
| TRFMBLVL | 4          |           |          |            |           |
| TRFMBR   | 10         | 10        |          |            |           |
| TRFMCUR  | 10         | 40        |          |            |           |
| TRFMEND  | 18         |           |          |            |           |
| TRFMFAS  | 10         | 20        |          |            |           |
| TRFMID   | 0          |           |          |            |           |
| TRFMOPT1 | 10         |           |          |            |           |
| TRFMRSV1 | 5          |           |          |            |           |



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## TROB Programming Interface Information

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Programming Interface Information

### TROB

**ONLY** the following fields are part of the programming interface:

- TROBASID
- TROBID
- TROBPASN
- TROBPRID
- TROBRET
- TROBSASN
- TROBTCBA
- TROBTIME
- TROBUNIQ1
- TROBUNIQ2
- TROBUNIQ3

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End of Programming Interface Information

## TROB Heading Information

**Common Name:** System Trace Table Formatter Output Buffer  
**Macro ID:** IHATROB  
**DSECT Name:** TROB  
**Owning Component:** System Trace (SC142)  
**Subpool and Key:** Subpool 229 and key 0 - when IEAVETFC is called by SNAP.  
 Subpool 0 and key of caller - when IEAVETFC is called by print dump. (Residence - above 16M line)  
**Size:** 120 bytes  
**Created by:** IEAVETEF - System Trace Table Entry Filter/Formatter Routine  
**Pointed to by:** TFWACURB (Current Output Buffer). Parameter list passed to users TTE formatter routines.  
**Serialization:** N/A  
**Function:** Map the system trace table formatter output buffer.

## TROB Map

| Offsets |      |            |     |              |                                                      |
|---------|------|------------|-----|--------------|------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                          |
| 0       | (0)  | STRUCTURE  | 0   | TROB         | TRACE OUTPUT BUFFER.                                 |
| 0       | (0)  | CHARACTER  | 2   | TROBPRID     | PROCESSOR IDENTIFIER.                                |
| 2       | (2)  | CHARACTER  | 1   | TROBDNAP     | NONBLANK WHEN DATA NOT AVAILABLE FOR ALL PROCESSORS. |
| 3       | (3)  | CHARACTER  | 117 | TROBREST (0) | ALL BUT THE PROCESSOR ID.                            |
| 3       | (3)  | CHARACTER  | 4   | TROBASID     | ASID.                                                |
| 7       | (7)  | CHARACTER  | 1   | TROBS02      | BLANK.                                               |
| 8       | (8)  | CHARACTER  | 8   | TROBTCBA     | TCB ADDRESS.                                         |
| 16      | (10) | CHARACTER  | 2   | TROBS03      | 2 BLANKS.                                            |
| 18      | (12) | CHARACTER  | 5   | TROBIDEN (0) | TTE IDENTIFIER.                                      |
| 18      | (12) | CHARACTER  | 1   | TROBEYEC     | IMPORTANT TTE EYE-CATCHER.                           |
| 19      | (13) | CHARACTER  | 4   | TROBID       | MNEMONIC/ACRONYM FOR TTE.                            |
| 23      | (17) | CHARACTER  | 1   | TROBS04      | BLANK.                                               |
| 24      | (18) | CHARACTER  | 4   | TROBCDE      | INTERRUPT CODE/DEVICE ADDRESS.                       |
| 28      | (1C) | CHARACTER  | 1   | TROBS05      | BLANK.                                               |
| 29      | (1D) | CHARACTER  | 8   | TROBWD1 (0)  | FULLWORD SLOT NUMBER 1.                              |
| 29      | (1D) | CHARACTER  | 8   | TROBPSW1 (0) | 1ST HALF OF PSW ('PSW-----').                        |
| 29      | (1D) | CHARACTER  | 4   | TROBW1H1 (0) | WORD 1,HALFWORD 1.                                   |
| 29      | (1D) | CHARACTER  | 2   | TROBW1B1 (0) | WORD 1, BYTE 1.                                      |
| 29      | (1D) | CHARACTER  | 2   | TROBCC       | CONDITION CODE.                                      |
| 31      | (1F) | CHARACTER  | 2   | TROBW1B2     | WORD 1, BYTE 2.                                      |
| 33      | (21) | CHARACTER  | 4   | TROBW1H2 (0) | WORD 1,HALFWORD 2.                                   |
| 33      | (21) | CHARACTER  | 2   | TROBW1B3 (0) | WORD 1, BYTE 3.                                      |
| 33      | (21) | CHARACTER  | 2   | TROBDI       | DRIVER ID.                                           |
| 35      | (23) | CHARACTER  | 2   | TROBW1B4     | WORD 1, BYTE 4.                                      |
| 37      | (25) | CHARACTER  | 1   | TROBS06      | BLANK.                                               |
| 38      | (26) | CHARACTER  | 8   | TROBWD2 (0)  | FULLWORD SLOT NUMBER 2.                              |
| 38      | (26) | CHARACTER  | 8   | TROBPSW2 (0) | 2ND HALF OF PSW ('ADDRESS-').                        |
| 38      | (26) | CHARACTER  | 8   | TROBRET (0)  | RETURN ADDRESS.                                      |
| 38      | (26) | CHARACTER  | 4   | TROBW2H1 (0) | WORD 2,HALFWORD 1.                                   |
| 38      | (26) | CHARACTER  | 2   | TROBW2B1     | WORD 2, BYTE 1.                                      |
| 40      | (28) | CHARACTER  | 2   | TROBW2B2     | WORD 2, BYTE 2.                                      |
| 42      | (2A) | CHARACTER  | 4   | TROBW2H2 (0) | WORD 2,HALFWORD 1.                                   |
| 42      | (2A) | CHARACTER  | 2   | TROBW2B3     | WORD 2, BYTE 3.                                      |
| 44      | (2C) | CHARACTER  | 2   | TROBW2B4     | WORD 2, BYTE 4.                                      |
| 46      | (2E) | CHARACTER  | 2   | TROBS07      | 2 BLANKS.                                            |
| 48      | (30) | CHARACTER  | 8   | TROBWD3 (0)  | FULLWORD SLOT NUMBER 3.                              |
| 48      | (30) | CHARACTER  | 8   | TROBUNQ1 (0) | 'UNIQUE-1' SLOT.                                     |
| 48      | (30) | CHARACTER  | 4   | TROBW3H1 (0) | WORD 3,HALFWORD 1.                                   |
| 48      | (30) | CHARACTER  | 2   | TROBW3B1     | WORD 3, BYTE 1.                                      |
| 50      | (32) | CHARACTER  | 2   | TROBW3B2     | WORD 3, BYTE 2.                                      |
| 52      | (34) | CHARACTER  | 4   | TROBW3H2 (0) | WORD 3,HALFWORD 1.                                   |

| Offsets |      |            |     |              |                                                            |
|---------|------|------------|-----|--------------|------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                |
| 52      | (34) | CHARACTER  | 2   | TROBW3B3     | WORD 3, BYTE 3.                                            |
| 54      | (36) | CHARACTER  | 2   | TROBW3B4     | WORD 3, BYTE 4.                                            |
| 56      | (38) | CHARACTER  | 1   | TROBS08      | BLANK.                                                     |
| 57      | (39) | CHARACTER  | 8   | TROBWD4 (0)  | FULLWORD SLOT NUMBER 4.                                    |
| 57      | (39) | CHARACTER  | 8   | TROBUNQ2 (0) | 'UNIQUE-2' SLOT.                                           |
| 57      | (39) | CHARACTER  | 4   | TROBW4H1 (0) | WORD 4,HALFWORD 1.                                         |
| 57      | (39) | CHARACTER  | 2   | TROBW4B1     | WORD 4, BYTE 1.                                            |
| 59      | (3B) | CHARACTER  | 2   | TROBW4B2     | WORD 4, BYTE 2.                                            |
| 61      | (3D) | CHARACTER  | 4   | TROBW4H2 (0) | WORD 4,HALFWORD 1.                                         |
| 61      | (3D) | CHARACTER  | 2   | TROBW4B3     | WORD 4, BYTE 3.                                            |
| 63      | (3F) | CHARACTER  | 2   | TROBW4B4     | WORD 4, BYTE 4.                                            |
| 65      | (41) | CHARACTER  | 1   | TROBS09      | BLANK.                                                     |
| 66      | (42) | CHARACTER  | 8   | TROBWD5 (0)  | FULLWORD SLOT NUMBER 5.                                    |
| 66      | (42) | CHARACTER  | 8   | TROBUNQ3 (0) | 'UNIQUE-3' SLOT.                                           |
| 66      | (42) | CHARACTER  | 4   | TROBW5H1 (0) | WORD 5,HALFWORD 1.                                         |
| 66      | (42) | CHARACTER  | 2   | TROBW5B1     | WORD 5, BYTE 1.                                            |
| 68      | (44) | CHARACTER  | 2   | TROBW5B2     | WORD 5, BYTE 2.                                            |
| 70      | (46) | CHARACTER  | 4   | TROBW5H2 (0) | WORD 5,HALFWORD 1.                                         |
| 70      | (46) | CHARACTER  | 2   | TROBW5B3     | WORD 5, BYTE 3.                                            |
| 72      | (48) | CHARACTER  | 2   | TROBW5B4     | WORD 5, BYTE 4.                                            |
| 74      | (4A) | CHARACTER  | 2   | TROBS10      | 2 BLANKS.                                                  |
| 76      | (4C) | CHARACTER  | 8   | TROBWD6 (0)  | FULLWORD SLOT NUMBER 6.                                    |
| 76      | (4C) | CHARACTER  | 8   | TROBCLHS (0) | PSACLHS.                                                   |
| 76      | (4C) | CHARACTER  | 4   | TROBW6H1 (0) | WORD 6,HALFWORD 1.                                         |
| 76      | (4C) | CHARACTER  | 2   | TROBW6B1     | WORD 6, BYTE 1.                                            |
| 78      | (4E) | CHARACTER  | 2   | TROBW6B2     | WORD 6, BYTE 2.                                            |
| 80      | (50) | CHARACTER  | 4   | TROBW6H2 (0) | WORD 6,HALFWORD 1.                                         |
| 80      | (50) | CHARACTER  | 2   | TROBW6B3     | WORD 6, BYTE 3.                                            |
| 82      | (52) | CHARACTER  | 2   | TROBW6B4     | WORD 6, BYTE 4.                                            |
| 84      | (54) | CHARACTER  | 1   | TROBS11      | BLANK.                                                     |
| 85      | (55) | CHARACTER  | 8   | TROBWD7 (0)  | FULLWORD SLOT NUMBER 7.                                    |
| 85      | (55) | CHARACTER  | 8   | TROBLOCL (0) | PSALOCAL.                                                  |
| 85      | (55) | CHARACTER  | 4   | TROBW7H1 (0) | WORD 7,HALFWORD 1.                                         |
| 85      | (55) | CHARACTER  | 2   | TROBW7B1     | WORD 7, BYTE 1.                                            |
| 87      | (57) | CHARACTER  | 2   | TROBW7B2     | WORD 7, BYTE 2.                                            |
| 89      | (59) | CHARACTER  | 4   | TROBW7H2 (0) | WORD 7,HALFWORD 1.                                         |
| 89      | (59) | CHARACTER  | 2   | TROBW7B3     | WORD 7, BYTE 3.                                            |
| 91      | (5B) | CHARACTER  | 2   | TROBW7B4     | WORD 7, BYTE 4.                                            |
| 93      | (5D) | CHARACTER  | 1   | TROBS12      | BLANK.                                                     |
| 94      | (5E) | CHARACTER  | 26  | TROBS89A (0) | FULLWORD SLOTS 8 9 AND 10.                                 |
| 94      | (5E) | CHARACTER  | 4   | TROBPASN     | PRIMARY ASID (PASID).                                      |
| 98      | (62) | CHARACTER  | 1   | TROBS13      | BLANK.                                                     |
| 99      | (63) | CHARACTER  | 4   | TROBSASN     | SECONDARY ASID (SASID).                                    |
| 103     | (67) | CHARACTER  | 1   | TROBS14      | BLANK.                                                     |
| 104     | (68) | CHARACTER  | 16  | TROBTIME (0) | TIMESTAMP-RECORD.                                          |
| 104     | (68) | CHARACTER  | 8   | TROBTIM1     | TIMESTAMP-RECORD (1ST HALF).                               |
| 112     | (70) | CHARACTER  | 8   | TROBTIM2     | TIMESTAMP-RECORD (2ND HALF).                               |
| 94      | (5E) | CHARACTER  | 8   | TROBWD8      | FULLWORD SLOT NUMBER 8.                                    |
| 102     | (66) | CHARACTER  | 1   | TROBS15      | BLANK.                                                     |
| 103     | (67) | CHARACTER  | 8   | TROBWD9      | FULLWORD SLOT NUMBER 9.                                    |
| 111     | (6F) | CHARACTER  | 1   | TROBS16      | BLANK.                                                     |
| 112     | (70) | CHARACTER  | 8   | TROBWDA      | FULLWORD SLOT NUMBER 10.                                   |
| 112     | (70) | X'5C'      | 0   | TROBEYEV     | "C*" EYE-CATCHER VALUE FOR TTES WITH DEBUGGING IMPORTANCE. |

## TROB Cross Reference

### TROB Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| TROB     | 0          |           | TROBW2H2 | 2A         |           |
| TROBASID | 3          |           | TROBW3B1 | 30         |           |
| TROBCC   | 1D         |           | TROBW3B2 | 32         |           |
| TROBCDE  | 18         |           | TROBW3B3 | 34         |           |
| TROBCLHS | 4C         |           | TROBW3B4 | 36         |           |
| TROBDI   | 21         |           | TROBW3H1 | 30         |           |
| TROBDNAP | 2          |           | TROBW3H2 | 34         |           |
| TROBEYEC | 12         |           | TROBW4B1 | 39         |           |
| TROBEYEV | 70         | 5C        | TROBW4B2 | 3B         |           |
| TROBID   | 13         |           | TROBW4B3 | 3D         |           |
| TROBIDEN | 12         |           | TROBW4B4 | 3F         |           |
| TROBLOCL | 55         |           | TROBW4H1 | 39         |           |
| TROBPASN | 5E         |           | TROBW4H2 | 3D         |           |
| TROBPRID | 0          |           | TROBW5B1 | 42         |           |
| TROBPSW1 | 1D         |           | TROBW5B2 | 44         |           |
| TROBPSW2 | 26         |           | TROBW5B3 | 46         |           |
| TROBREST | 3          |           | TROBW5B4 | 48         |           |
| TROBRET  | 26         |           | TROBW5H1 | 42         |           |
| TROBSASN | 63         |           | TROBW5H2 | 46         |           |
| TROBS02  | 7          |           | TROBW6B1 | 4C         |           |
| TROBS03  | 10         |           | TROBW6B2 | 4E         |           |
| TROBS04  | 17         |           | TROBW6B3 | 50         |           |
| TROBS05  | 1C         |           | TROBW6B4 | 52         |           |
| TROBS06  | 25         |           | TROBW6H1 | 4C         |           |
| TROBS07  | 2E         |           | TROBW6H2 | 50         |           |
| TROBS08  | 38         |           | TROBW7B1 | 55         |           |
| TROBS09  | 41         |           | TROBW7B2 | 57         |           |
| TROBS10  | 4A         |           | TROBW7B3 | 59         |           |
| TROBS11  | 54         |           | TROBW7B4 | 5B         |           |
| TROBS12  | 5D         |           | TROBW7H1 | 55         |           |
| TROBS13  | 62         |           | TROBW7H2 | 59         |           |
| TROBS14  | 67         |           |          |            |           |
| TROBS15  | 66         |           |          |            |           |
| TROBS16  | 6F         |           |          |            |           |
| TROBS89A | 5E         |           |          |            |           |
| TROBTCBA | 8          |           |          |            |           |
| TROBTIME | 68         |           |          |            |           |
| TROBTIM1 | 68         |           |          |            |           |
| TROBTIM2 | 70         |           |          |            |           |
| TROBUNQ1 | 30         |           |          |            |           |
| TROBUNQ2 | 39         |           |          |            |           |
| TROBUNQ3 | 42         |           |          |            |           |
| TROBWDA  | 70         |           |          |            |           |
| TROBWD1  | 1D         |           |          |            |           |
| TROBWD2  | 26         |           |          |            |           |
| TROBWD3  | 30         |           |          |            |           |
| TROBWD4  | 39         |           |          |            |           |
| TROBWD5  | 42         |           |          |            |           |
| TROBWD6  | 4C         |           |          |            |           |
| TROBWD7  | 55         |           |          |            |           |
| TROBWD8  | 5E         |           |          |            |           |
| TROBWD9  | 67         |           |          |            |           |
| TROBW1B1 | 1D         |           |          |            |           |
| TROBW1B2 | 1F         |           |          |            |           |
| TROBW1B3 | 21         |           |          |            |           |
| TROBW1B4 | 23         |           |          |            |           |
| TROBW1H1 | 1D         |           |          |            |           |
| TROBW1H2 | 21         |           |          |            |           |
| TROBW2B1 | 26         |           |          |            |           |
| TROBW2B2 | 28         |           |          |            |           |
| TROBW2B3 | 2A         |           |          |            |           |
| TROBW2B4 | 2C         |           |          |            |           |
| TROBW2H1 | 26         |           |          |            |           |

## TRSN Heading Information

**Common Name:** System Trace SNAPTRC Parameter List  
**Macro ID:** IHATRSN  
**DSECT Name:** TRSN  
**Owning Component:** System Trace (SC142)  
**Subpool and Key:** Any Subpool and key 0 (Residence - above 16M line)  
**Size:** 32 bytes  
**Created by:** Invoker of SNAPTRC or ASIDTRC services.  
 IEAVAD00 - SVC 51 (SNAP or SVCDUMP)  
 IEAVAD01 - SNAP Mainline  
 IEAVTABD - ABDUMP  
 IEAVTRT2 - RTM2 Initialization (SVC 13 entry point)  
 IEAVTSDC - SVC Dump Clean Up Routine  
 IEAVTSDM - SVC Dump Trace Routine  
 IEAVTSDR - SVC Dump Resource Manager  
 IEAVTSDX - SVC Dump Branch Entry  
 IEAVETRM - System Trace Task/Address Space Termination  
 Resource Manager  
**Pointed to by:** Parameter list passed to SNAPTRC and ASIDTRC services.  
**Serialization:** N/A  
**Function:** Contain parameters for SNAPTRC and ASIDTRC services.

### TRSN Map

| Offsets |      |            |     |            |                                                                                                                                              |
|---------|------|------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                  |
| 0       | (0)  | STRUCTURE  | 32  | TRSN       | TRACE SNAPTRC PARAMETER LIST.                                                                                                                |
| 0       | (0)  | CHARACTER  | 4   | TRSNID     | TRSN EBCDIC IDENTIFIER.                                                                                                                      |
| 4       | (4)  | UNSIGNED   | 1   | TRSNBLVL   | CONTROL BLOCK LEVEL NUMBER.                                                                                                                  |
| 5       | (5)  | CHARACTER  | 1   | TRSNRSV1   | RESERVED.                                                                                                                                    |
| 6       | (6)  | CHARACTER  | 2   | TRSNLLID   | ASID OF LOCAL LOCK HELD BY WORK SCHEDULING SRB TO ISSUE SNAPTRC.                                                                             |
| 8       | (8)  | CHARACTER  | 2   | TRSNATYPE  | REQUEST TYPE.                                                                                                                                |
| 10      | (A)  | CHARACTER  | 2   | TRSNASID   | OWNING ASID FOR SNAPTRC TRSNSNAP REQUEST, FILTER ASID FOR ASIDTRC TRSNATRC REQUEST, ASID OF TRACE ADDRESS SPACE RETURNED FOR THESE REQUESTS. |
| 12      | (C)  | ADDRESS    | 4   | TRSNTTCH   | TTCH ADDRESS.                                                                                                                                |
| 16      | (10) | UNSIGNED   | 4   | TRSNLEN    | LENGTH OF TTCH.                                                                                                                              |
| 20      | (14) | ADDRESS    | 4   | TRSNTCB    | ADDRESS OF TERMINATING TCB FOR SNAPTRC TRSNKFR REQUEST.                                                                                      |
| 24      | (18) | CHARACTER  | 8   | TRSNRSV2   | RESERVED.                                                                                                                                    |
| 32      | (20) | CHARACTER  | 0   | TRSNEND    | END OF TRSN.                                                                                                                                 |

## TRSN Constants • TRSN Cross Reference

### TRSN Constants

| Len | Type    | Value | Name     | Description                                                                  |
|-----|---------|-------|----------|------------------------------------------------------------------------------|
| 1   | DECIMAL | 1     | TRSNLVLN | TRSN LEVEL NUMBER.                                                           |
| 1   | DECIMAL | 1     | TRSNSNAP | SNAPTRC REQUEST TYPE TO SNAPSHOT THE TRACE TABLE.                            |
| 1   | DECIMAL | 2     | TRSNATRC | ASIDTRC REQUEST TYPE TO FILTER A TRACE TABLE SNAPSHOT (TTCH).                |
| 1   | DECIMAL | 3     | TRSNFREE | SNAPTRC REQUEST TYPE TO FREE A TTCH.                                         |
| 1   | DECIMAL | 4     | TRSNTKFR | SNAPTRC REQUEST TYPE TO FREE ALL TTCHS OWNED BY THE SPECIFIED TASK AND ASID. |
| 1   | DECIMAL | 5     | TRSNASFR | SNAPTRC REQUEST TYPE TO FREE ALL TTCHS OWNED BY THE SPECIFIED ASID.          |

### TRSN Cross Reference

| Name      | Hex Offset | Hex Value |
|-----------|------------|-----------|
| TRSN      | 0          |           |
| TRSNASID  | A          |           |
| TRSNBLVL  | 4          |           |
| TRSNEND   | 20         |           |
| TRSNID    | 0          |           |
| TRSNLEN   | 10         |           |
| TRSNLLID  | 6          |           |
| TRSNRSV1  | 5          |           |
| TRSNRSV2  | 18         |           |
| TRSNTCB   | 14         |           |
| TRSN TTCH | C          |           |
| TRSN TYPE | 8          |           |



## TRST Heading Information

**Common Name:** System Trace Status Parameter List  
**Macro ID:** IEEZB901  
**DSECT Name:** TRST  
**Owning Component:** System Trace (SC142)  
**Subpool and Key:** Any subpool and key 0 (Residence - above 16M line)  
**Size:** 24 bytes  
**Created by:** IEECB806 - TRACE Command Processor  
**Pointed to by:** Parameter list passed to trace status service.  
**Serialization:** N/A  
**Function:** Contain system trace status information which describes the current state of system trace.

### TRST Map

| Offsets |      |            |     |            |                                                                                  |
|---------|------|------------|-----|------------|----------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                      |
| 0       | (0)  | STRUCTURE  | 24  | TRST       | SYSTEM TRACE STATUS PARAMETER LIST.                                              |
| 0       | (0)  | CHARACTER  | 4   | TRSTID     | TRST EBCDIC IDENTIFIER.                                                          |
| 4       | (4)  | UNSIGNED   | 1   | TRSTBLVL   | CONTROL BLOCK LEVEL NUMBER.                                                      |
| 5       | (5)  | CHARACTER  | 3   | TRSTRSV1   | RESERVED.                                                                        |
| 8       | (8)  | BITSTRING  | 4   | TRSTSTFG   | SYSTEM TRACE STATUS FLAGS.                                                       |
| 8       | (8)  | BITSTRING  | 1   | *          |                                                                                  |
|         |      | 1... ..    |     | TRSTACT    | SYSTEM TRACE ACTIVE.                                                             |
| 9       | (9)  | BITSTRING  | 2   | *          |                                                                                  |
| 11      | (B)  | BITSTRING  | 1   | TRSTSTF4   | STATUS FLAGS BYTE 4.                                                             |
|         |      | 1111 1...  |     | *          |                                                                                  |
|         |      | .... .1..  |     | TRSTBR     | BRANCH TRACING ACTIVE.                                                           |
|         |      | .... ..1.  |     | TRSTAS     | ASID TRACING ACTIVE.                                                             |
|         |      | .... ...1  |     | TRSTEX     | EXPLICIT TRACING ACTIVE.                                                         |
| 12      | (C)  | UNSIGNED   | 4   | TRSTSZPT   | SPACE ALLOCATED FROM SYSTEM TRACE BUFFERS ON EACH PROCESSOR IN UNITS OF K BYTES. |
| 16      | (10) | UNSIGNED   | 4   | TRSTSZTT   | SPACE ALLOCATED FOR SYSTEM TRACE TABLE IN UNITS OF K BYTES.                      |
| 20      | (14) | CHARACTER  | 4   | TRSTRSV2   | RESERVED.                                                                        |
| 24      | (18) | CHARACTER  | 0   | TRSTEND    | END OF TRST.                                                                     |

### TRST Constants

| Len | Type    | Value | Name     | Description        |
|-----|---------|-------|----------|--------------------|
| 1   | DECIMAL |       | TRSTLVLN | TRST LEVEL NUMBER. |

### TRST Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| TRST     | 0          |           | TRSTSZTT | 10         |           |
| TRSTACT  | 8          | 80        |          |            |           |
| TRSTAS   | B          | 02        |          |            |           |
| TRSTBLVL | 4          |           |          |            |           |
| TRSTBR   | B          | 04        |          |            |           |
| TRSTEND  | 18         |           |          |            |           |
| TRSTEX   | B          | 01        |          |            |           |
| TRSTID   | 0          |           |          |            |           |
| TRSTRSV1 | 5          |           |          |            |           |
| TRSTRSV2 | 14         |           |          |            |           |
| TRSTSTFG | 8          |           |          |            |           |
| TRSTSTF4 | B          |           |          |            |           |
| TRSTSZPT | C          |           |          |            |           |



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## TRVT Programming Interface information

Programming Interface information

TRVT

INCLUDE ONLY

End of Programming Interface information

## TRVT Heading Information

**Common Name:** System trace vector table (TRVT)  
**Macro ID:** IHATRVT  
**DSECT Name:** TRVT  
**Owning Component:** System trace (SC142)  
**Eye-Catcher ID:** TRVT  
 Offset: 0  
 Length: 4  
**Storage Attributes:** Subpool: Nucleus  
 Key: 0  
 Residency: LOC(BELOW)  
**Size:**  
**Created by:** Exists as nucleus resident module IEAVETVT  
**Pointed to by:** PSATRVT  
**Serialization:** N/A  
**Function:** Contain addresses of system trace service routines and control blocks.

## TRVT Map

| Offsets |      |            |     |            |                                                                                                                                                                                                          |
|---------|------|------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                              |
| 0       | (0)  | STRUCTURE  | 0   | TRVT       | TRACE VECTOR TABLE.                                                                                                                                                                                      |
| 0       | (0)  | CHARACTER  | 4   | TRVTID     | TRVT EBCDIC IDENTIFIER.                                                                                                                                                                                  |
| 4       | (4)  | CHARACTER  | 8   | TRVTDATE   | MODULE DATE.                                                                                                                                                                                             |
| 12      | (C)  | CHARACTER  | 8   | TRVTMLVL   | MODULE LEVEL.                                                                                                                                                                                            |
| 20      | (14) | BITSTRING  | 1   | TRVTBLVL   | CONTROL BLOCK LEVEL NUMBER.                                                                                                                                                                              |
| 21      | (15) | CHARACTER  | 3   | TRVTRSD1   | RESERVED.                                                                                                                                                                                                |
| 24      | (18) | ADDRESS    | 4   | TRVTOB     | ADDRESS OF TRACE OPTION BLOCK.                                                                                                                                                                           |
| 28      | (1C) | ADDRESS    | 4   | TRVTETAT   | ADDRESS OF ALTRTRC SERVICE INTERFACE.                                                                                                                                                                    |
| 32      | (20) | ADDRESS    | 4   | TRVTETST   | ADDRESS OF SNAPTRC SERVICE INTERFACE.                                                                                                                                                                    |
| 36      | (24) | ADDRESS    | 4   | TRVTETAF   | ADDRESS OF ASIDTRC SERVICE INTERFACE.                                                                                                                                                                    |
| 40      | (28) | ADDRESS    | 4   | TRVTETSC   | ADDRESS OF TRACE STORAGE CHECK RECOVERY ROUTINE.                                                                                                                                                         |
| 44      | (2C) | ADDRESS    | 4   | TRVTETRR   | ADDRESS OF TRACE RECEIVING ROUTINE.                                                                                                                                                                      |
| 48      | (30) | ADDRESS    | 4   | TRVTETCT   | ADDRESS OF COPYTRC SERVICE INTERFACE.                                                                                                                                                                    |
| 52      | (34) | ADDRESS    | 4   | TRVTETTV   | ADDRESS OF VERFYTRC SERVICE INTERFACE.                                                                                                                                                                   |
| 56      | (38) | ADDRESS    | 4   | TRVTETFR   | ADDRESS OF TRACE SERVICES GENERAL FRR.                                                                                                                                                                   |
| 60      | (3C) | ADDRESS    | 4   | TRVTETTD   | ADDRESS OF TRACE TIMER DIE ROUTINE.                                                                                                                                                                      |
| 64      | (40) | ADDRESS    | 4   | TRVTRSD2   | RESERVED.                                                                                                                                                                                                |
| 68      | (44) | ADDRESS    | 4   | TRVTRSD3   | RESERVED.                                                                                                                                                                                                |
| 72      | (48) | BITSTRING  | 4   | TRVTRPMK   | REGISTER PAIR INDICATOR MASK.                                                                                                                                                                            |
| 76      | (4C) | BITSTRING  | 4   | TRVTTCW1   | MASK TO CLEAR THE TRACING CONTROL BITS FROM BITS 32-63 OF A CR12 VALUE. A DUPLICATE OF THIS CONSTANT IS DEFINED IN THE DAT-OFF PROGRAM CHECK FLIH (IEAVEPCO) WHICH MUST CHANGE IF THIS CONSTANT CHANGES. |
| 80      | (50) | BITSTRING  | 4   | TRVTTPSR   | TIME INTERVAL THAT SYSTEM TRACE PROCESSOR STRUCTURE IS RETAINED AFTER ACR OR VARY PROCESSOR OFFLINE. X'00000001' IS 1.048576 SECONDS.                                                                    |
| 84      | (54) | ADDRESS    | 4   | TRVTETSS   | ADDRESS OF START SUBCHANNEL TTE CREATION ROUTINE.                                                                                                                                                        |
| 88      | (58) | ADDRESS    | 4   | TRVTETMS   | ADDRESS OF MODIFY SUBCHANNEL TTE CREATION ROUTINE.                                                                                                                                                       |
| 92      | (5C) | ADDRESS    | 4   | TRVTETHS   | ADDRESS OF HALT SUBCHANNEL TTE CREATION ROUTINE.                                                                                                                                                         |
| 96      | (60) | ADDRESS    | 4   | TRVTETCS   | ADDRESS OF CLEAR SUBCHANNEL TTE CREATION ROUTINE.                                                                                                                                                        |
| 100     | (64) | ADDRESS    | 4   | TRVTETRS   | ADDRESS OF RESUME SUBCHANNEL TTE CREATION ROUTINE.                                                                                                                                                       |

| Offsets |      |            |     |             |                                                                                                                                                                                                                    |
|---------|------|------------|-----|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)  | Description                                                                                                                                                                                                        |
| 104     | (68) | ADDRESS    | 4   | TRVTETEX    | ADDRESS OF EXTERNAL INTERRUPT TTE CREATION ROUTINE.                                                                                                                                                                |
| 108     | (6C) | ADDRESS    | 4   | TRVTETSV    | ADDRESS OF SVC INTERRUPT TTE CREATION ROUTINE.                                                                                                                                                                     |
| 112     | (70) | ADDRESS    | 4   | TRVTETSR    | ADDRESS OF SVC RETURN TTE CREATION ROUTINE.                                                                                                                                                                        |
| 116     | (74) | ADDRESS    | 4   | TRVTETSE    | ADDRESS OF SVC ERROR TTE CREATION ROUTINE.                                                                                                                                                                         |
| 120     | (78) | ADDRESS    | 4   | TRVTETPI    | ADDRESS OF PROGRAM INTERRUPT TTE CREATION ROUTINE.                                                                                                                                                                 |
| 124     | (7C) | ADDRESS    | 4   | TRVTETIO    | ADDRESS OF I/O INTERRUPT TTE CREATION ROUTINE.                                                                                                                                                                     |
| 128     | (80) | ADDRESS    | 4   | TRVTETDP    | ADDRESS OF TASK DISPATCH TTE CREATION ROUTINE.                                                                                                                                                                     |
| 132     | (84) | ADDRESS    | 4   | TRVTETIS    | ADDRESS OF INITIAL SRB DISPATCH TTE CREATION ROUTINE.                                                                                                                                                              |
| 136     | (88) | ADDRESS    | 4   | TRVTETSB    | ADDRESS OF SUSPENDED SRB DISPATCH TTE CREATION ROUTINE.                                                                                                                                                            |
| 140     | (8C) | ADDRESS    | 4   | TRVTETWT    | ADDRESS OF WAIT TASK DISPATCH TTE CREATION ROUTINE.                                                                                                                                                                |
| 144     | (90) | ADDRESS    | 4   | TRVTETMH    | ADDRESS OF MACHINE CHECK TTE CREATION ROUTINE.                                                                                                                                                                     |
| 148     | (94) | ADDRESS    | 4   | TRVTETRE    | ADDRESS OF RESTART TTE CREATION ROUTINE.                                                                                                                                                                           |
| 152     | (98) | ADDRESS    | 4   | TRVTETAR    | ADDRESS OF ACR TTE CREATION ROUTINE.                                                                                                                                                                               |
| 156     | (9C) | ADDRESS    | 4   | TRVTETSU    | ADDRESS OF SUSPENSION TTE CREATION ROUTINE.                                                                                                                                                                        |
| 160     | (A0) | ADDRESS    | 4   | TRVTETTA    | ADDRESS OF TRACE ALTERATION TTE CREATION ROUTINE.                                                                                                                                                                  |
| 164     | (A4) | ADDRESS    | 4   | TRVTETUR    | ADDRESS OF USER EVENT TTE CREATION ROUTINE.                                                                                                                                                                        |
| 168     | (A8) | ADDRESS    | 4   | TRVTETSL    | ADDRESS OF SLIP/PER EVENT TTE CREATION ROUTINE.                                                                                                                                                                    |
| 172     | (AC) | ADDRESS    | 4   | TRVTETSY    | ADDRESS OF PC OR BRANCH ENTERED SYSTEM SERVICE TTE CREATION ROUTINE.                                                                                                                                               |
| 176     | (B0) | ADDRESS    | 4   | TRVTETRV    | ADDRESS OF RCVY TTE CREATION ROUTINE.                                                                                                                                                                              |
| 180     | (B4) | ADDRESS    | 4   | TRVTETTM    | ADDRESS OF TIME TTE CREATION ROUTINE                                                                                                                                                                               |
| 184     | (B8) | ADDRESS    | 4   | TRVTETSA    | ADDR OF SIGA CREATION RTN                                                                                                                                                                                          |
| 188     | (BC) | BITSTRING  | 4   | TRVTTCTX    | MASK TO PRESERVE ONLY THE TRACE CONTROL BITS FROM A CR12 VALUE. THIS IS TRVTTCW1 XC'D WITH "-1"                                                                                                                    |
| 192     | (C0) | BITSTRING  | 4   | TRVTTCTO    | MASK TO PRESERVE ONLY THE TRACE CONTROL BITS IN THE OPTION WORD.                                                                                                                                                   |
| 196     | (C4) | BITSTRING  | 4   | TRVTTCW0    | MASK TO CLEAR THE TRACING CONTROL BITS FROM BITS 0-31 OF CR12. A DUPLICATE OF THIS CONSTANT IS DEFINED IN THE DAT-OFF PROGRAM CHECK FLIH (IEAVEPCO) WHICH MUST CHANGE IF THIS CONSTANT CHANGES. ONLY USED IN ESAME |
| 200     | (C8) | ADDRESS    | 4   | TRVTRSD8    | RESERVED FOR FUTURE USE                                                                                                                                                                                            |
| 204     | (CC) | ADDRESS    | 4   | TRVTRSD9    | RESERVED FOR FUTURE USE                                                                                                                                                                                            |
| 208     | (D0) | ADDRESS    | 4   | TRVTRSDA    | RESERVED FOR FUTURE USE                                                                                                                                                                                            |
| 212     | (D4) | ADDRESS    | 4   | TRVTSPIT    | ADDRESS OF SERVICE PROCESSOR INTERFACE MODULE THAT GATHERS DATA FOR THE SS TYPE ENTRY                                                                                                                              |
| 216     | (D8) | ADDRESS    | 4   | TRVTRSDB    | RESERVED FOR FUTURE USE                                                                                                                                                                                            |
| 220     | (DC) | ADDRESS    | 4   | TRVTRSDC    | RESERVED FOR FUTURE USE                                                                                                                                                                                            |
| 224     | (E0) | ADDRESS    | 4   | TRVTRSDD    | RESERVED FOR FUTURE USE                                                                                                                                                                                            |
| 228     | (E4) | ADDRESS    | 4   | TRVTRSDE    | RESERVED FOR FUTURE USE                                                                                                                                                                                            |
| 232     | (E8) | DBL WORD   | 8   | TRVTEND (0) | END OF TRVT.                                                                                                                                                                                                       |
|         |      | .... ...1  |     | TRVTLVLN    | "X'01" TRVT LEVEL NUMBER.                                                                                                                                                                                          |

## TRVT Cross Reference

### TRVT Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| TRVT     | 0          |           |
| TRVTBLVL | 14         |           |
| TRVTDATE | 4          |           |
| TRVTEND  | E8         |           |
| TRVTETAF | 24         |           |
| TRVTETAR | 98         |           |
| TRVTETAT | 1C         |           |
| TRVTETCS | 60         |           |
| TRVTETCT | 30         |           |
| TRVTETDP | 80         |           |
| TRVTETEX | 68         |           |
| TRVTETFR | 38         |           |
| TRVTETHS | 5C         |           |
| TRVTETIO | 7C         |           |
| TRVTETIS | 84         |           |
| TRVTETMH | 90         |           |
| TRVTETMS | 58         |           |
| TRVTETPI | 78         |           |
| TRVTETRE | 94         |           |
| TRVTETRR | 2C         |           |
| TRVTETRS | 64         |           |
| TRVTETRV | B0         |           |
| TRVTETSA | B8         |           |
| TRVTETSB | 88         |           |
| TRVTETSC | 28         |           |
| TRVTETSE | 74         |           |
| TRVTETSL | A8         |           |
| TRVTETSR | 70         |           |
| TRVTETSS | 54         |           |
| TRVTETST | 20         |           |
| TRVTETSU | 9C         |           |
| TRVTETSV | 6C         |           |
| TRVTETSY | AC         |           |
| TRVETTA  | A0         |           |
| TRVETTD  | 3C         |           |
| TRVETTM  | B4         |           |
| TRVETTV  | 34         |           |
| TRVETTUR | A4         |           |
| TRVETWT  | 8C         |           |
| TRVTID   | 0          |           |
| TRVTLVLN | E8         | 1         |
| TRVTMLVL | C          |           |
| TRVTRPMK | 48         | 80000000  |
| TRVTRSDA | D0         |           |
| TRVTRSDB | D8         |           |
| TRVTRSDC | DC         |           |
| TRVTRSDD | E0         |           |
| TRVTRSDE | E4         |           |
| TRVTRSD1 | 15         |           |
| TRVTRSD2 | 40         |           |
| TRVTRSD3 | 44         |           |
| TRVTRSD8 | C8         |           |
| TRVTRSD9 | CC         |           |
| TRVTSPIT | D4         |           |
| TRVTTCTO | C0         |           |
| TRVTTCTX | BC         |           |
| TRVTTCW0 | C4         |           |
| TRVTTCW1 | 4C         |           |
| TRVTTOB  | 18         |           |
| TRVTTPSR | 50         |           |

## TTCH Heading Information

**Common Name:** System Trace Table Snapshot Copy Header  
**Macro ID:** IHATTCH  
**DSECT Name:** TTCH, TTCHBS  
**Owning Component:** System Trace (SC142)  
**Subpool and Key:** Subpool 229 and key 0 (Residence - above 16M line)  
**Size:** 184 bytes plus (the number of processors with TRACE data X number of buffers per processor X (40 + 4K))  
**Created by:** IEAVETSN - System Trace Table Snapshot Routine.  
 IEAVETTF - System Trace Table Snapshot Filter Routine.  
**Pointed to by:** PRDTTCH (SVC Dump), TFWATTCH, TOBTTCHF, TOBTTCHB, TRFMTTCH, TRSNTTCH, TTCHFWRD, TTCHBWRD  
**Serialization:** System trace address space local lock.  
**Function:** Contain information which describes a copy of the trace table.

### TTCH Map

| Offsets |      |            |     |             |                                                                                              |
|---------|------|------------|-----|-------------|----------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)  | Description                                                                                  |
| 0       | (0)  | STRUCTURE  | 184 | TTCH        | TRACE TABLE COPY HEADER.                                                                     |
| 0       | (0)  | CHARACTER  | 4   | TTCHID      | TTCH EBCDIC IDENTIFIER.                                                                      |
| 4       | (4)  | UNSIGNED   | 1   | TTCHBLVL    | CONTROL BLOCK LEVEL NUMBER.                                                                  |
| 5       | (5)  | BITSTRING  | 1   | TTCHFLGS    | TTCH FLAGS.                                                                                  |
|         |      | 1... ....  |     | TTCHATRC    | TTCH PRE-FILTERED BY ASID BY THE ASIDTRC SERVICE.                                            |
| 6       | (6)  | CHARACTER  | 2   | TTCHRSV1    | RESERVED.                                                                                    |
| 8       | (8)  | ADDRESS    | 4   | TTCHFWRD    | FORWARD CHAIN POINTER.                                                                       |
| 12      | (C)  | ADDRESS    | 4   | TTCHBWRD    | BACKWARD CHAIN POINTER.                                                                      |
| 16      | (10) | UNSIGNED   | 4   | TTCHSIZE    | TOTAL SIZE OF THE COPY AREA.                                                                 |
| 20      | (14) | CHARACTER  | 2   | TTCHRSV2    | RESERVED.                                                                                    |
| 22      | (16) | UNSIGNED   | 2   | TTCHASID    | ASID OWNING TTCH.                                                                            |
| 24      | (18) | ADDRESS    | 4   | TTCHTCB     | TCB OWNING TTCH OR 0.                                                                        |
| 28      | (1C) | UNSIGNED   | 2   | TTCHNUMP    | NUMBER OF PROCESSOR AREAS FOLLOWING WITH TRACE DATA.                                         |
| 30      | (1E) | UNSIGNED   | 2   | TTCHMBUF    | MAXIMUM NUMBER OF 4K BUFFERS FOR A PROCESSOR.                                                |
| 32      | (20) | CHARACTER  | 8   | TTCHTOD     | TIME OF DAY FROM ASCB OF OWNING ASID.                                                        |
| 40      | (28) | CHARACTER  | 16  | TTCHRSV3    | RESERVED.                                                                                    |
| 56      | (38) | CHARACTER  | 8   | TTCHPH (16) | PROCESSOR HEADER.                                                                            |
| 56      | (38) | UNSIGNED   | 2   | TTCHNUMB    | NUMBER OF 4K BUFFERS FOR THIS PROCESSOR.                                                     |
| 58      | (3A) | UNSIGNED   | 2   | TTCHCPID    | PROCESSOR ID.                                                                                |
| 60      | (3C) | ADDRESS    | 4   | TTCHBPTR    | POINTER TO A PROCESSOR SECTION CONSISTING OF THE GIVEN NUMBER (TTCHNUMB) OF BUFFER SECTIONS. |
| 64      | (40) | CHARACTER  | 0   | TTCHPEND    | END OF PROCESSOR HEADER SECTION OF TTCH.                                                     |
| 184     | (B8) | CHARACTER  | 0   | TTCHEND     | END OF TTCH.                                                                                 |

| Offsets |     |            |     |            |                                                                            |
|---------|-----|------------|-----|------------|----------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                                                |
| 0       | (0) | STRUCTURE  | 40  | TTCHBS (*) | BUFFER SECTION.                                                            |
| 0       | (0) | ADDRESS    | 4   | TTCHCPTR   | POINTER TO COPY OF 4K TRACE BUFFER.                                        |
| 4       | (4) | SIGNED     | 4   | TTCHCLEN   | LENGTH OF VALID DATA IN THE COPY OF THE 4K TRACE BUFFER.                   |
| 8       | (8) | CHARACTER  | 24  | TTCHBST    | BUFFER STATUS. (COPIED FROM TBVTBST, COPIED TO TFWABST)                    |
| 8       | (8) | CHARACTER  | 2   | TTCHBFGS   | STATE FLAGS.                                                               |
| 8       | (8) | CHARACTER  | 1   | TTCHBFG1   | STATE FLAGS.                                                               |
|         |     | 1... ....  |     | TTCHBLST   | TRACE BUFFER(S) HAS BEEN LOST. NO TRACE DATA IS AVAILABLE TO BE PROCESSED. |

## TTCH Constants • TTCH Cross Reference

| Offsets |      | Type/Value | Len | Name (Dim) | Description                                                                                                                             |
|---------|------|------------|-----|------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  |            |     |            |                                                                                                                                         |
|         |      | .1.. ....  |     | TTCHCLST   | CONTROL INFORMATION FOR THE TRACE BUFFER HAS BEEN LOST. TRACE DATA MAY EXIST IN THE BUFFER, BUT THE END OF THE TRACE DATA IS NOT KNOWN. |
|         |      | ..1. ....  |     | TTCHITTE   | INVALID TTE FOUND IN TRACE DATA BY ASIDTRC SERVICE.                                                                                     |
| 9       | (9)  | CHARACTER  | 1   | TTCHBFG2   | STATE FLAGS.                                                                                                                            |
| 10      | (A)  | UNSIGNED   | 2   | TTCHBSA    | SASID AT TIME BUFFER BECAME CURRENT.                                                                                                    |
| 12      | (C)  | UNSIGNED   | 2   | TTCHBHA    | HASID AT TIME BUFFER BECAME CURRENT.                                                                                                    |
| 14      | (E)  | UNSIGNED   | 2   | TTCHBPA    | PASID AT TIME BUFFER BECAME CURRENT.                                                                                                    |
| 16      | (10) | ADDRESS    | 4   | TTCHBTB    | PSATOLD AT TIME BUFFER BECAME CURRENT.                                                                                                  |
| 20      | (14) | SIGNED     | 4   | TTCHBCNT   | BUFFER USE COUNT.                                                                                                                       |
| 24      | (18) | CHARACTER  | 8   | TTCHBTOD   | TIME OF DAY BUFFER BECAME CURRENT.                                                                                                      |
| 32      | (20) | CHARACTER  | 8   | TTCHBSAT   | TIME OF DAY AT BUFFER SATURATION.                                                                                                       |
| 40      | (28) | CHARACTER  | 0   | TTCHBEND   | END OF BUFFER SECTION OF TTCH.                                                                                                          |

### TTCH Constants

| Len | Type    | Value | Name     | Description        |
|-----|---------|-------|----------|--------------------|
| 1   | DECIMAL |       | TTCHLVLN | TTCH LEVEL NUMBER. |

### TTCH Cross Reference

| Name     | Hex Offset | Hex Value | Name    | Hex Offset | Hex Value |
|----------|------------|-----------|---------|------------|-----------|
| TTCH     | 0          |           | TTCHTOD | 20         |           |
| TTCHASID | 16         |           |         |            |           |
| TTCHATRC | 5          | 80        |         |            |           |
| TTCHBCNT | 14         |           |         |            |           |
| TTCHBEND | 28         |           |         |            |           |
| TTCHBFGS | 8          |           |         |            |           |
| TTCHBFG1 | 8          |           |         |            |           |
| TTCHBFG2 | 9          |           |         |            |           |
| TTCHBHA  | C          |           |         |            |           |
| TTCHBLST | 8          | 80        |         |            |           |
| TTCHBLVL | 4          |           |         |            |           |
| TTCHBPA  | E          |           |         |            |           |
| TTCHBPTR | 3C         |           |         |            |           |
| TTCHBS   | 0          |           |         |            |           |
| TTCHBSA  | A          |           |         |            |           |
| TTCHBSAT | 20         |           |         |            |           |
| TTCHBST  | 8          |           |         |            |           |
| TTCHBTB  | 10         |           |         |            |           |
| TTCHBTOD | 18         |           |         |            |           |
| TTCHBWRD | C          |           |         |            |           |
| TTCHCLEN | 4          |           |         |            |           |
| TTCHCLST | 8          | 40        |         |            |           |
| TTCHCPID | 3A         |           |         |            |           |
| TTCHCPTR | 0          |           |         |            |           |
| TTCHEND  | B8         |           |         |            |           |
| TTCHFLGS | 5          |           |         |            |           |
| TTCHFWRD | 8          |           |         |            |           |
| TTCHID   | 0          |           |         |            |           |
| TTCHITTE | 8          | 20        |         |            |           |
| TTCHMBUF | 1E         |           |         |            |           |
| TTCHNUMB | 38         |           |         |            |           |
| TTCHNUMP | 1C         |           |         |            |           |
| TTCHPEND | 40         |           |         |            |           |
| TTCHPH   | 38         |           |         |            |           |
| TTCHRSV1 | 6          |           |         |            |           |
| TTCHRSV2 | 14         |           |         |            |           |
| TTCHRSV3 | 28         |           |         |            |           |
| TTCHSIZE | 10         |           |         |            |           |
| TTCHTCB  | 18         |           |         |            |           |



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## TTE Programming Interface information

Programming Interface information

### TTE

**ONLY** the following fields are part of the programming interface information:

- TTEXP
- TTE07F
- TTE07FAD
- TTE07FCI
- TTE07FHA
- TTE07FPA
- TTE07FPI
- TTE07FRB
- TTE07FRV
- TTE07FSA
- TTE07FTB

End of Programming Interface information

## TTE Heading Information

**Common Name:** System trace table entry (TTE)  
**Macro ID:** IHATTE  
**DSECT Name:** TTE  
**Owning Component:** System trace (SC142)  
**Eye-Catcher ID:** NONE  
**Storage Attributes:** Subpool: 245 IN TRACING BUFFERS CREATED BY IEAVNIP0. 255 IN TRACING BUFFERS CREATED BY IEAVETEA.  
 Key: 0  
**Size:** DEPENDS ON TYPE OF ENTRY.  
**Created by:** IMPLICITLY BY THE HARDWARE OR EXPLICITLY BY:  
 SYSTEM TRACE TABLE ENTRY CREATION ROUTINES (IEAVETRC),  
 THE DISPATCHER (PTRACE IN IEAVEDS0),  
 EXIT PROLOGUE ROUTINE (PTRACE IN IEAVEEXP),  
 AND SVC FLIH (PTRACE IN IEAVESVC).  
**Pointed to by:** CONTROL REGISTER 12  
 TBVTCR12  
 TBVTENTY  
 PARAMETER 3 FOR ITRF0N7F, THE USRN FORMATTING ROUTINES,  
 WHERE N IS 0-9.  
**Serialization:** DISABLEMENT ON THE PROCESSOR AND ZEROED  
 TRACING CONTROL BITS IN CONTROL REGISTER 12.  
**Function:** CONTAIN THE INFORMATION FROM EACH TRACE ENTRY.

## TTE Map

| Offsets              |      |            |     |              |                                                                      |
|----------------------|------|------------|-----|--------------|----------------------------------------------------------------------|
| Dec                  | Hex  | Type/Value | Len | Name (Dim)   | Description                                                          |
| 0                    | (0)  | STRUCTURE  | 0   | TTE          | TRACE TABLE ENTRY.                                                   |
| 0                    | (0)  | CHARACTER  | 4   | (0)          | MINIMUM TRACE TABLE ENTRY.                                           |
| Comment              |      |            |     |              |                                                                      |
| GENERAL EXPLICIT TTE |      |            |     |              |                                                                      |
| End of Comment       |      |            |     |              |                                                                      |
| 0                    | (0)  | CHARACTER  | 12  | TTEXP (0)    | EXPLICIT TRACE TABLE ENTRY.                                          |
| 0                    | (0)  | BITSTRING  | 1   | TTETYPE      | TRACE TABLE ENTRY TYPE (X'7N').                                      |
|                      |      | .111 ....  |     | TTETEX       | "X'70" EXPLICIT TTE TYPE (X'7N').                                    |
|                      |      | 1111 ....  |     | TTEMEX       | "X'F0" MASK FOR EXPLICIT TTE TYPE.                                   |
|                      |      | .... 1111  |     | TTEREGS      | "X'0F" MASK FOR ONE LESS THAN THE NUMBER OF<br>REGISTERS IN THE TTE. |
| 1                    | (1)  | BITSTRING  | 1   | TTEMBZ1      | RESERVED. (MUST BE ZERO)                                             |
| 2                    | (2)  | BITSTRING  | 6   | TTETOD       | TOD-CLOCK BITS 16-63.                                                |
| 8                    | (8)  | BITSTRING  | 4   | TTETOTE (0)  | TRACE OPERAND TABLE ENTRY.                                           |
| 8                    | (8)  | BITSTRING  | 2   |              | FLAG BYTES.                                                          |
| 10                   | (A)  | SIGNED     | 2   | TTEXPTYP (0) | EXPLICIT ENTRY TYPE.                                                 |
| 10                   | (A)  | BITSTRING  | 1   | TTEXPSID     | EXPLICIT ENTRY SUB-ID.                                               |
|                      |      | .... 1111  |     | TTEMSID      | "X'0F" MASK FOR EXPLICIT TTE SUB-ID.                                 |
| 11                   | (B)  | BITSTRING  | 1   | TTEXPID      | EXPLICIT ENTRY ID.                                                   |
| 12                   | (C)  | SIGNED     | 4   | TTEUNQ (0)   | UNIQUE ENTRY DESCRIPTIONS.                                           |
| 12                   | (C)  | CHARACTER  | 64  | TTEEXCOM (0) | EXPLICIT ENTRY COMMON FIELD NAMES.                                   |
| 12                   | (C)  | CHARACTER  | 4   | TTEWRD0 (0)  | TTE WORD 0.                                                          |
| 12                   | (C)  | ADDRESS    | 4   | TTETCB       | TCB ADDRESS.                                                         |
| 16                   | (10) | CHARACTER  | 4   | TTEWRD1 (0)  | TTE WORD 1.                                                          |
| 16                   | (10) | SIGNED     | 2   | TTEDEP       | DEPENDENT ON EACH EXPLICIT TTE ENTRY.                                |
| 18                   | (12) | SIGNED     | 2   | TTEASID      | ASID.                                                                |
| 20                   | (14) | CHARACTER  | 4   | TTEWRD2      | TTE WORD 2.                                                          |

| Offsets |      |            |     |              |                                           |
|---------|------|------------|-----|--------------|-------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                               |
| 24      | (18) | CHARACTER  | 4   | TTEWRD3      | TTE WORD 3.                               |
| 28      | (1C) | CHARACTER  | 4   | TTEWRD4      | TTE WORD 4.                               |
| 32      | (20) | CHARACTER  | 4   | TTEWRD5      | TTE WORD 5.                               |
| 36      | (24) | CHARACTER  | 4   | TTEWRD6      | TTE WORD 6.                               |
| 40      | (28) | CHARACTER  | 4   | TTEWRD7      | TTE WORD 7.                               |
| 44      | (2C) | CHARACTER  | 4   | TTEWRD8      | TTE WORD 8.                               |
| 48      | (30) | CHARACTER  | 4   | TTEWRD9      | TTE WORD 9.                               |
| 52      | (34) | CHARACTER  | 4   | TTEWRDA      | TTE WORD 10.                              |
| 56      | (38) | CHARACTER  | 4   | TTEWRDB      | TTE WORD 11.                              |
| 60      | (3C) | CHARACTER  | 4   | TTEWRDC      | TTE WORD 12.                              |
| 64      | (40) | CHARACTER  | 4   | TTEWRDD      | TTE WORD 13.                              |
| 68      | (44) | CHARACTER  | 4   | TTEWRDE      | TTE WORD 14.                              |
| 72      | (48) | CHARACTER  | 4   | TTEWRDF      | TTE WORD 15.                              |
| 76      | (4C) | SIGNED     | 4   | TTEXPEND (0) | END OF MAXIMUM EXPLICIT TTE.              |
| 76      | (4C) | X'4C'      | 0   | TTETMAX      | "76" MAXIMUM LENGTH OF EXPLICIT ENTRIES.  |
|         |      | .... ...1  |     | TTEMTSCH     | "X'001" SUBCHANNEL TYPE MAJOR ID.         |
|         |      | .... ..11  |     | TTEMTEXT     | "X'003" EXTERNAL INTERRUPT TYPE MAJOR ID. |
|         |      | .... ..1.1 |     | TTEMTSVC     | "X'005" SVC TYPE MAJOR ID.                |
|         |      | .... 1111  |     | TTEMTDSP     | "X'00F" DISPATCHER TYPE MAJOR ID.         |
|         |      | .... ...1  |     | TTETSSCH     | "X'001" SSCH TYPE ID.                     |
|         |      | .... ..11  |     | TTETEXT      | "X'003" GENERAL EXT TYPE ID.              |
|         |      | .... ..1.1 |     | TTETSVC      | "X'005" GENERAL SVC TYPE ID.              |
|         |      | .... .111  |     | TTETPGM      | "X'007" PGM TYPE ID.                      |
|         |      | .... 1..1  |     | TTETSPER     | "X'009" SLIP/PER TYPE ID.                 |
|         |      | .... 1111  |     | TTETDSP      | "X'00F" DSP TYPE ID.                      |
|         |      | .... 1.11  |     | TTETIO       | "X'00B" IO TYPE ID.                       |
|         |      | ...1 ..11  |     | TTETMCH      | "X'013" MCH TYPE ID.                      |
|         |      | ...1 ..1.1 |     | TTETRST      | "X'015" RST TYPE ID.                      |
|         |      | ...1 .111  |     | TTETACR      | "X'017" ACR TYPE ID.                      |
|         |      | ...1 1..1  |     | TTETSUSP     | "X'019" SUSP TYPE ID.                     |
|         |      | ...1 1.11  |     | TTETALTR     | "X'01B" ALTR TYPE ID.                     |
|         |      | ...1 11.1  |     | TTETRCVY     | "X'01D" RCVY TYPE ID.                     |
|         |      | ...1 1111  |     | TTETTIME     | "X'01F" TIME TYPE ID.                     |
|         |      | .111 1111  |     | TTETUSR0     | "X'07F" USR0 TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETEMS      | "X'103" EMS EXT TYPE ID.                  |
| 76      | (4C) | BITSTRING  | 0   | TTETMSCH     | "X'101" MSCH TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETSVCR     | "X'105" SVCR TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETSRB      | "X'10F" SRB TYPE ID.                      |
| 76      | (4C) | BITSTRING  | 0   | TTETUSR1     | "X'17F" USR1 TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETHSCH     | "X'201" HSCH TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETSS       | "X'203" SS EXT TYPE ID.                   |
| 76      | (4C) | BITSTRING  | 0   | TTETSSRV     | "X'205" SSRV TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETSSRB     | "X'20F" SSRB TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETUSR2     | "X'27F" USR2 TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETCSCH     | "X'301" CSCH TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETCALL     | "X'303" EXTERNAL CALL EXT TYPE ID.        |
| 76      | (4C) | BITSTRING  | 0   | TTETUSR3     | "X'37F" USR3 TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETRSCHE    | "X'401" RSCH TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETCLKC     | "X'403" CLOCK COMPARATOR EXT TYPE ID.     |
| 76      | (4C) | BITSTRING  | 0   | TTETUSR4     | "X'47F" USR4 TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETSIGA     | "X'501" SIGA TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETUSR5     | "X'57F" USR5 TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETUSR6     | "X'67F" USR6 TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETUSR7     | "X'77F" USR7 TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETUSR8     | "X'87F" USR8 TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETUSR9     | "X'97F" USR9 TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETUSRA     | "X'A7F" USRA TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETUSRB     | "X'B7F" USRB TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETUSRC     | "X'C7F" USRC TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETUSRD     | "X'D7F" USRD TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETUSRE     | "X'E7F" USRE TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETSVCE     | "X'F05" SVC ERROR TYPE ID.                |
| 76      | (4C) | BITSTRING  | 0   | TTETWAIT     | "X'F0F" WAIT TYPE ID.                     |
| 76      | (4C) | BITSTRING  | 0   | TTETUSRF     | "X'F7F" USRF TYPE ID.                     |

## TTE Map

| Offsets                             |      |            |     |              |                                                                                                                                            |
|-------------------------------------|------|------------|-----|--------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Dec                                 | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                                                |
| Comment                             |      |            |     |              |                                                                                                                                            |
| ACR - ALTERNATE CPU RECOVERY TTE    |      |            |     |              |                                                                                                                                            |
| End of Comment                      |      |            |     |              |                                                                                                                                            |
| 12                                  | (C)  | SIGNED     | 4   | TTE017 (0)   | ACR (ACR).                                                                                                                                 |
| 12                                  | (C)  | ADDRESS    | 4   | TTE017TB     | PSATOLD FROM THE FAILING PROCESSOR. *<br>FLCCVT->CVTPCCAT-> * PCCAT00P(PSASPAD)-> *<br>PCCAPSAV->PSATOLD.                                  |
| 16                                  | (10) | SIGNED     | 2   | TTE017LP     | PSACPUPA. LOGICAL PROCESSOR ADDRESS. *<br>FLCCVT->CVTPCCAT-> * PCCAT00P(PSASPAD)-> *<br>PCCAPSAV->PSACPUPA.                                |
| 18                                  | (12) | SIGNED     | 2   | TTE017HA     | HOME ADDRESS SPACE FROM THE FAILING PROCESSOR.<br>* FLCCVT->CVTPCCAT-> * PCCAT00P(PSASPAD)-> *<br>PCCAPSAV->PSAAOLD-> * ASCBASID.          |
| 20                                  | (14) | ADDRESS    | 4   | TTE017AD     | PSAEEPSW FROM THE ACR PROCESSOR. FAILING<br>PROCESSOR ADDRESS. * PSAEEPSW.                                                                 |
| 24                                  | (18) | BITSTRING  | 1   | TTE017FG     | LCCACREX. ACR FLAG BYTE FROM THE FAILING<br>PROCESSOR. * FLCCVT->CVTPCCAT-> *<br>PCCAT00P(PSASPAD)-> * PCCAPSAV->PSALCCAV-> *<br>LCCACREX. |
| 25                                  | (19) | BITSTRING  | 3   | TTE017R1     | RESERVED.                                                                                                                                  |
| 28                                  | (1C) | ADDRESS    | 4   | TTE017FR     | PSACSTK. CURRENT FRR STACK ADDRESS FROM THE<br>FAILING PROCESSOR. * FLCCVT->CVTPCCAT-> *<br>PCCAT00P(PSASPAD)-> * PCCAPSAV->PSACSTK.       |
| 32                                  | (20) | SIGNED     | 4   | TTE017PS     | PSASUPER FROM THE FAILING PROCESSOR. *<br>FLCCVT->CVTPCCAT-> * PCCAT00P(PSASPAD)-> *<br>PCCAPSAV->PSASUPER.                                |
| 36                                  | (24) | SIGNED     | 4   | TTE017MW     | PSAMODEW FROM THE FAILING PROCESSOR. *<br>FLCCVT->CVTPCCAT-> * PCCAT00P(PSASPAD)-> *<br>PCCAPSAV->PSAMODEW.                                |
| 40                                  | (28) | SIGNED     | 4   | TTE017LH     | PSACLHS FROM THE FAILING PROCESSOR. *<br>FLCCVT->CVTPCCAT-> * PCCAT00P(PSASPAD)-> *<br>PCCAPSAV->PSACLHS.                                  |
| 44                                  | (2C) | ADDRESS    | 4   | TTE017PL     | PSALOCAL FROM THE FAILING PROCESSOR. *<br>FLCCVT->CVTPCCAT-> * PCCAT00P(PSASPAD)-> *<br>PCCAPSAV->PSALOCAL.                                |
| 48                                  | (30) | SIGNED     | 4   | TTE017LE     | PSACLHSE FROM THE FAILING PROCESSOR. *<br>FLCCVT->CVTPCCAT-> * PCCAT00P(PSASPAD)-> *<br>PCCAPSAV->PSACLHSE.                                |
| 52                                  | (34) | SIGNED     | 4   | TTE017ED (0) | END OF ACR TTE.                                                                                                                            |
| Comment                             |      |            |     |              |                                                                                                                                            |
| ALTR - TRACE OPTIONS ALTERATION TTE |      |            |     |              |                                                                                                                                            |
| End of Comment                      |      |            |     |              |                                                                                                                                            |
| 12                                  | (C)  | SIGNED     | 4   | TTE01B (0)   | TRACE OPTIONS ALTERATION (ALTR).                                                                                                           |
| 12                                  | (C)  | ADDRESS    | 4   | TTE01BTB     | CURRENT TCB ADDRESS OR 0. * PSATOLD.                                                                                                       |
| 16                                  | (10) | SIGNED     | 2   | TTE01BR1     | RESERVED.                                                                                                                                  |
| 18                                  | (12) | SIGNED     | 2   | TTE01BHA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID.                                                                                                   |
| 20                                  | (14) | SIGNED     | 2   | TTE01BPA     | PASID. * CONTROL REGISTER 4.                                                                                                               |
| 22                                  | (16) | SIGNED     | 2   | TTE01BSA     | SASID. * CONTROL REGISTER 3.                                                                                                               |
| 24                                  | (18) | SIGNED     | 4   | TTE01BFC     | REGISTER 0 TRACE FUNCTION CODE. ALTRTRC INPUT. *<br>INPUT REGISTER 0.                                                                      |
| 28                                  | (1C) | SIGNED     | 4   | TTE01BAC     | REGISTER 1 TRACE ACTION CODE. ALTRTRC INPUT. *<br>INPUT REGISTER 1.                                                                        |
| 32                                  | (20) | SIGNED     | 4   | TTE01BPT     | TOBTROPT - CONTROL REGISTER 12 MODEL FORMAT. *<br>PSATRV->TRVTTOB->TOBTROPT.                                                               |
| 36                                  | (24) | SIGNED     | 2   | TTE01BCT     | TOBTRPOL - NUMBER OF PROCESSORS WITH TRACE<br>CURRENTLY ACTIVE AND/OR SUSPENDED. *<br>PSATRV->TRVTTOB->TOBTRPOL.                           |

| Offsets                                        |      |            |     |              |                                                                                   |
|------------------------------------------------|------|------------|-----|--------------|-----------------------------------------------------------------------------------|
| Dec                                            | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                       |
| 38                                             | (26) | SIGNED     | 2   | TTE01BBF     | TOBTRBUF - NUMBER OF TRACE BUFFERS PER PROCESSOR. * PSATRVLT->TRVTTTOB->TOBTRBUF. |
| 40                                             | (28) | SIGNED     | 4   | TTE01BED (0) | END OF ALTR TTE.                                                                  |
| Comment                                        |      |            |     |              |                                                                                   |
| CALL - EXTERNAL CALL EXTERNAL INTERRUPT TTE    |      |            |     |              |                                                                                   |
| End of Comment                                 |      |            |     |              |                                                                                   |
| 12                                             | (C)  | SIGNED     | 4   | TTE303 (0)   | EXTERNAL CALL EXTERNAL INTERRUPT (CALL).                                          |
| 12                                             | (C)  | ADDRESS    | 4   | TTE303TB     | CURRENT TCB ADDRESS OR 0. * PSATOLD.                                              |
| 16                                             | (10) | SIGNED     | 2   | TTE303R1     | RESERVED.                                                                         |
| 18                                             | (12) | SIGNED     | 2   | TTE303HA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID.                                          |
| 20                                             | (14) | SIGNED     | 2   | TTE303PA     | PASID. * INPUT REGISTER 4.                                                        |
| 22                                             | (16) | SIGNED     | 2   | TTE303SA     | SASID. * INPUT REGISTER 4.                                                        |
| 24                                             | (18) | CHARACTER  | 8   | TTE303PW (0) | EXTERNAL OLD PSW. * FLCEOPSW.                                                     |
| 24                                             | (18) | CHARACTER  | 4   | TTE303P1     | 1ST HALF OF PSW.                                                                  |
| 28                                             | (1C) | CHARACTER  | 4   | TTE303P2     | 2ND HALF OF PSW.                                                                  |
| 32                                             | (20) | ADDRESS    | 4   | TTE303CD     | ISSUING PROCESSOR ADDRESS AND EXTERNAL INTERRUPT CODE. * PSAEEPSW.                |
| 36                                             | (24) | SIGNED     | 4   | TTE303PB     | PCCARPB. * PSAPCCA->PCCARPB.                                                      |
| 40                                             | (28) | SIGNED     | 4   | TTE303LH     | PSACLHS.                                                                          |
| 44                                             | (2C) | ADDRESS    | 4   | TTE303PL     | PSALOCAL.                                                                         |
| 48                                             | (30) | SIGNED     | 4   | TTE303LE     | PSACLHSE.                                                                         |
| 52                                             | (34) | SIGNED     | 4   | TTE303ED (0) | END OF CALL TTE.                                                                  |
| Comment                                        |      |            |     |              |                                                                                   |
| CLKC - CLOCK COMPARATOR EXTERNAL INTERRUPT TTE |      |            |     |              |                                                                                   |
| End of Comment                                 |      |            |     |              |                                                                                   |
| 12                                             | (C)  | SIGNED     | 4   | TTE403 (0)   | CLOCK COMPARATOR EXTERNAL INTERRUPT (CLKC).                                       |
| 12                                             | (C)  | ADDRESS    | 4   | TTE403TB     | CURRENT TCB ADDRESS OR 0. * PSATOLD.                                              |
| 16                                             | (10) | SIGNED     | 2   | TTE403R1     | RESERVED.                                                                         |
| 18                                             | (12) | SIGNED     | 2   | TTE403HA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID.                                          |
| 20                                             | (14) | SIGNED     | 2   | TTE403PA     | PASID. * INPUT REGISTER 4.                                                        |
| 22                                             | (16) | SIGNED     | 2   | TTE403SA     | SASID. * INPUT REGISTER 4.                                                        |
| 24                                             | (18) | CHARACTER  | 8   | TTE403PW (0) | EXTERNAL OLD PSW. * FLCEOPSW.                                                     |
| 24                                             | (18) | CHARACTER  | 4   | TTE403P1     | 1ST HALF OF PSW.                                                                  |
| 28                                             | (1C) | CHARACTER  | 4   | TTE403P2     | 2ND HALF OF PSW.                                                                  |
| 32                                             | (20) | SIGNED     | 4   | TTE403CD     | EXTERNAL INTERRUPT CODE. * PSAEEPSW.                                              |
| 36                                             | (24) | ADDRESS    | 4   | TTE403TT     | TQE TCB OR 0. * PSAPCCA->PCCATQEP->TQETCB.                                        |
| 40                                             | (28) | SIGNED     | 2   | TTE403R2     | RESERVED.                                                                         |
| 42                                             | (2A) | SIGNED     | 2   | TTE403TA     | TQE ASID OR 0. * PSAPCCA->PCCATQEP->TQEASID.                                      |
| 44                                             | (2C) | SIGNED     | 4   | TTE403LH     | PSACLHS.                                                                          |
| 48                                             | (30) | ADDRESS    | 4   | TTE403PL     | PSALOCAL.                                                                         |
| 52                                             | (34) | SIGNED     | 4   | TTE403LE     | PSACLHSE.                                                                         |
| 56                                             | (38) | SIGNED     | 4   | TTE403ED (0) | END OF CLKC TTE.                                                                  |
| Comment                                        |      |            |     |              |                                                                                   |
| CSCH - CLEAR SUBCHANNEL TTE                    |      |            |     |              |                                                                                   |
| End of Comment                                 |      |            |     |              |                                                                                   |
| 12                                             | (C)  | SIGNED     | 4   | TTE301 (0)   | CLEAR SUBCHANNEL (CSCH).                                                          |
| 12                                             | (C)  | ADDRESS    | 4   | TTE301TB     | TCB ADDRESS FROM SRB. * IOBPTR(R2)->IOSSRB->SRBPTCB.                              |
| 16                                             | (10) | SIGNED     | 2   | TTE301AD     | ASID FROM IOSB. * IOBPTR(R2)->IOSASID.                                            |
| 18                                             | (12) | SIGNED     | 2   | TTE301HA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID.                                          |
| 20                                             | (14) | BITSTRING  | 1   | TTE301CC     | CONDITION CODE. * INPUT REGISTER 0.                                               |
| 21                                             | (15) | BITSTRING  | 1   | TTE301DI     | DRIVER ID. * IOBPTR(R2)->IOSDVRID.                                                |
| 22                                             | (16) | SIGNED     | 2   | TTE301DN     | DEVICE NUMBER. * IOBPTR(R2)->IOSUCB->UCBCHAN.                                     |
| 24                                             | (18) | ADDRESS    | 4   | TTE301UB     | UCB ADDRESS (COMMON SEGMENT). * ORBPTR(R3)->WORD 1.                               |

## TTE Map

| Offsets |      |            |     |              |                                                                                                 |
|---------|------|------------|-----|--------------|-------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                     |
| 28      | (1C) | ADDRESS    | 4   | TTE301IQ     | IOQ ADDRESS. * ORBPTR(R3)->WORD 2.                                                              |
| 32      | (20) | ADDRESS    | 4   | TTE301AI     | ADDRESS OF IOSB FOR ASSOCIATED SSCH REQUEST (0 IF NO ASSOCIATED REQUEST). * ORBPTR(R3)->WORD 3. |
| 36      | (24) | ADDRESS    | 4   | TTE301IO     | IOSB ADDRESS. * INPUT REGISTER 2.                                                               |
| 40      | (28) | SIGNED     | 4   | TTE301TK (0) | TOKEN. * INPUT REGISTER 1.                                                                      |
| 40      | (28) | BITSTRING  | 1   | TTE301T1     | KEY. NOT FORMATTED.                                                                             |
| 41      | (29) | BITSTRING  | 1   | TTE301T2     | RESERVED.                                                                                       |
| 42      | (2A) | SIGNED     | 2   | TTE301T3     | BASE DEVICE NUMBER.                                                                             |
| 44      | (2C) | SIGNED     | 4   | TTE301ED (0) | END OF CSCH TTE.                                                                                |

Comment

### DSP - TASK DISPATCH TTE

End of Comment

|    |      |           |   |              |                                          |
|----|------|-----------|---|--------------|------------------------------------------|
| 12 | (C)  | SIGNED    | 4 | TTE00F (0)   | TASK DISPATCH (DSP).                     |
| 12 | (C)  | ADDRESS   | 4 | TTE00FTB     | CURRENT TCB ADDRESS. * PSATOLD.          |
| 16 | (10) | SIGNED    | 2 | TTE00FR1     | RESERVED.                                |
| 18 | (12) | SIGNED    | 2 | TTE00FHA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID. |
| 20 | (14) | SIGNED    | 2 | TTE00FPA     | PASID. * INPUT REGISTER 13.              |
| 22 | (16) | SIGNED    | 2 | TTE00FSA     | SASID. * INPUT REGISTER 13.              |
| 24 | (18) | CHARACTER | 8 | TTE00FPW (0) | PSW TO BE DISPATCHED. * PSAPSWSV.        |
| 24 | (18) | CHARACTER | 4 | TTE00FP1     | 1ST HALF OF PSW.                         |
| 28 | (1C) | CHARACTER | 4 | TTE00FP2     | 2ND HALF OF PSW.                         |
| 32 | (20) | SIGNED    | 4 | TTE00FG0     | REGISTER 0 CONTENTS. * INPUT REGISTER 0. |
| 36 | (24) | SIGNED    | 4 | TTE00FG1     | REGISTER 1 CONTENTS. * INPUT REGISTER 1. |
| 40 | (28) | SIGNED    | 4 | TTE00FMW     | PSAMODEW.                                |
| 44 | (2C) | SIGNED    | 4 | TTE00FLH     | PSACLHS.                                 |
| 48 | (30) | ADDRESS   | 4 | TTE00FPL     | PSALOCAL.                                |
| 52 | (34) | SIGNED    | 4 | TTE00FED (0) | END OF DSP TTE.                          |

Comment

### EMS - EMERGENCY SIGNAL EXTERNAL INTERRUPT TTE

End of Comment

|    |      |           |   |              |                                                                   |
|----|------|-----------|---|--------------|-------------------------------------------------------------------|
| 12 | (C)  | SIGNED    | 4 | TTE103 (0)   | EMS EXTERNAL INTERRUPT (EMS).                                     |
| 12 | (C)  | ADDRESS   | 4 | TTE103TB     | CURRENT TCB ADDRESS OR 0. * PSATOLD.                              |
| 16 | (10) | SIGNED    | 2 | TTE103R1     | RESERVED.                                                         |
| 18 | (12) | SIGNED    | 2 | TTE103HA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID.                          |
| 20 | (14) | SIGNED    | 2 | TTE103PA     | PASID. * INPUT REGISTER 4.                                        |
| 22 | (16) | SIGNED    | 2 | TTE103SA     | SASID. * INPUT REGISTER 4.                                        |
| 24 | (18) | CHARACTER | 8 | TTE103PW (0) | EXTERNAL OLD PSW. * FLCEOPSW.                                     |
| 24 | (18) | CHARACTER | 4 | TTE103P1     | 1ST HALF OF PSW.                                                  |
| 28 | (1C) | CHARACTER | 4 | TTE103P2     | 2ND HALF OF PSW.                                                  |
| 32 | (20) | ADDRESS   | 4 | TTE103CD     | ISSUING PROCESSOR ADDRESS AND EXTERNAL INTERRUPT CODE. * PSAEPSW. |
| 36 | (24) | SIGNED    | 4 | TTE103SI     | PCCAEMSI. * FLCCVT->CVTPCCAT-> * PCCAT00P(PSASPAD)-> * PCCAEMSI.  |
| 40 | (28) | ADDRESS   | 4 | TTE103SP     | PCCAEMSP. * FLCCVT->CVTPCCAT-> * PCCAT00P(PSASPAD)-> * PCCAEMSP.  |
| 44 | (2C) | ADDRESS   | 4 | TTE103SE     | PCCAEMSE. * FLCCVT->CVTPCCAT-> * PCCAT00P(PSASPAD)-> * PCCAEMSE.  |
| 48 | (30) | SIGNED    | 4 | TTE103LH     | PSACLHS.                                                          |
| 52 | (34) | ADDRESS   | 4 | TTE103PL     | PSALOCAL.                                                         |
| 56 | (38) | SIGNED    | 4 | TTE103LE     | PSACLHSE.                                                         |
| 60 | (3C) | SIGNED    | 4 | TTE103ED (0) | END OF EMS TTE.                                                   |

Comment

### EXT - GENERAL EXTERNAL INTERRUPT TTE

End of Comment

|    |     |        |   |            |                           |
|----|-----|--------|---|------------|---------------------------|
| 12 | (C) | SIGNED | 4 | TTE003 (0) | EXTERNAL INTERRUPT (EXT). |
|----|-----|--------|---|------------|---------------------------|

| Offsets |      |            |     |              |                                          |
|---------|------|------------|-----|--------------|------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                              |
| 12      | (C)  | ADDRESS    | 4   | TTE003TB     | CURRENT TCB ADDRESS OR 0. * PSATOLD.     |
| 16      | (10) | SIGNED     | 2   | TTE003R1     | RESERVED.                                |
| 18      | (12) | SIGNED     | 2   | TTE003HA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID. |
| 20      | (14) | SIGNED     | 2   | TTE003PA     | PASID. * INPUT REGISTER 4.               |
| 22      | (16) | SIGNED     | 2   | TTE003SA     | SASID. * INPUT REGISTER 4.               |
| 24      | (18) | CHARACTER  | 8   | TTE003PW (0) | EXTERNAL OLD PSW. * FLCEOPSW.            |
| 24      | (18) | CHARACTER  | 4   | TTE003P1     | 1ST HALF OF PSW.                         |
| 28      | (1C) | CHARACTER  | 4   | TTE003P2     | 2ND HALF OF PSW.                         |
| 32      | (20) | SIGNED     | 4   | TTE003CD     | EXTERNAL INTERRUPT CODE. * PSAEPSW.      |
| 36      | (24) | SIGNED     | 4   | TTE003LH     | PSACLHS.                                 |
| 40      | (28) | ADDRESS    | 4   | TTE003PL     | PSALOCAL.                                |
| 44      | (2C) | SIGNED     | 4   | TTE003LE     | PSACLHSE.                                |
| 48      | (30) | SIGNED     | 4   | TTE003ED (0) | END OF EXT TTE.                          |

Comment

HSCH - HALT SUBCHANNEL TTE

End of Comment

|    |      |           |   |              |                                                                                                    |
|----|------|-----------|---|--------------|----------------------------------------------------------------------------------------------------|
| 12 | (C)  | SIGNED    | 4 | TTE201 (0)   | HALT SUBCHANNEL (HSCH).                                                                            |
| 12 | (C)  | ADDRESS   | 4 | TTE201TB     | TCB ADDRESS FROM SRB. *<br>IOBPTR(R2)->IOSSRB->SRBPTCB.                                            |
| 16 | (10) | SIGNED    | 2 | TTE201AD     | ASID FROM IOSB. * IOBPTR(R2)->IOSASID.                                                             |
| 18 | (12) | SIGNED    | 2 | TTE201HA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID.                                                           |
| 20 | (14) | BITSTRING | 1 | TTE201CC     | CONDITION CODE. * INPUT REGISTER 0.                                                                |
| 21 | (15) | BITSTRING | 1 | TTE201DI     | DRIVER ID. * IOBPTR(R2)->IOSDVRID.                                                                 |
| 22 | (16) | SIGNED    | 2 | TTE201DN     | DEVICE NUMBER. * IOBPTR(R2)->IOSUCB->UCBCHAN.                                                      |
| 24 | (18) | ADDRESS   | 4 | TTE201UB     | UCB ADDRESS (COMMON SEGMENT). *<br>ORBPTR(R3)->WORD 1.                                             |
| 28 | (1C) | ADDRESS   | 4 | TTE201IQ     | IOQ ADDRESS. * ORBPTR(R3)->WORD 2.                                                                 |
| 32 | (20) | ADDRESS   | 4 | TTE201AI     | ADDRESS OF IOSB FOR ASSOCIATED SSCH REQUEST (0<br>IF NO ASSOCIATED REQUEST). * ORBPTR(R3)->WORD 3. |
| 36 | (24) | ADDRESS   | 4 | TTE201IO     | IOSB ADDRESS. * INPUT REGISTER 2.                                                                  |
| 40 | (28) | SIGNED    | 4 | TTE201TK (0) | TOKEN. * INPUT REGISTER 1.                                                                         |
| 40 | (28) | BITSTRING | 1 | TTE201T1     | KEY. NOT FORMATTED.                                                                                |
| 41 | (29) | BITSTRING | 1 | TTE201T2     | RESERVED.                                                                                          |
| 42 | (2A) | SIGNED    | 2 | TTE201T3     | BASE DEVICE NUMBER.                                                                                |
| 44 | (2C) | SIGNED    | 4 | TTE201ED (0) | END OF HSCH TTE.                                                                                   |

Comment

IO - I/O INTERRUPT TTE

End of Comment

|    |      |           |   |              |                                             |
|----|------|-----------|---|--------------|---------------------------------------------|
| 12 | (C)  | SIGNED    | 4 | TTE00B (0)   | I/O INTERRUPT (IO).                         |
| 12 | (C)  | ADDRESS   | 4 | TTE00BTB     | CURRENT TCB ADDRESS OR 0. * PSATOLD.        |
| 16 | (10) | SIGNED    | 2 | TTE00BDN     | DEVICE NUMBER. * UCBPTR(R7)->UCBCHAN.       |
| 18 | (12) | SIGNED    | 2 | TTE00BHA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID.    |
| 20 | (14) | SIGNED    | 2 | TTE00BPA     | PASID. * CONTROL REGISTER 4.                |
| 22 | (16) | SIGNED    | 2 | TTE00BSA     | SASID. * CONTROL REGISTER 3.                |
| 24 | (18) | CHARACTER | 8 | TTE00BPW (0) | I/O OLD PSW. * FLCIOPSW.                    |
| 24 | (18) | CHARACTER | 4 | TTE00BP1     | 1ST HALF OF PSW.                            |
| 28 | (1C) | CHARACTER | 4 | TTE00BP2     | 2ND HALF OF PSW.                            |
| 32 | (20) | SIGNED    | 2 | TTE00BFG     | IRBFLAGS. * IRBPTR(R3)->WORD 1.             |
| 34 | (22) | SIGNED    | 2 | TTE00BSC     | SUBCHANNEL CONTROL. * IRBPTR(R3)->WORD 1.   |
| 36 | (24) | ADDRESS   | 4 | TTE00BCA     | CCW ADDRESS. * IRBPTR(R3)->WORD 2.          |
| 40 | (28) | BITSTRING | 1 | TTE00BDS     | DEVICE STATUS. * IRBPTR(R3)->WORD 3.        |
| 41 | (29) | BITSTRING | 1 | TTE00BSS     | SUBCHANNEL STATUS. * IRBPTR(R3)->WORD 3.    |
| 42 | (2A) | SIGNED    | 2 | TTE00BCT     | RESIDUAL COUNT. * IRBPTR(R3)->WORD 3.       |
| 44 | (2C) | SIGNED    | 4 | TTE00BEW     | EXTENDED STATUS WORD. * IRBPTR(R3)->WORD 4. |
| 48 | (30) | ADDRESS   | 4 | TTE00BUB     | UCB ADDRESS. * INPUT REGISTER 7.            |
| 52 | (34) | SIGNED    | 4 | TTE00BLH     | PSACLHS.                                    |
| 56 | (38) | ADDRESS   | 4 | TTE00BPL     | PSALOCAL.                                   |
| 60 | (3C) | SIGNED    | 4 | TTE00BLE     | PSACLHSE.                                   |

## TTE Map

| Offsets                           |      |            |     |              |                                                                                             |
|-----------------------------------|------|------------|-----|--------------|---------------------------------------------------------------------------------------------|
| Dec                               | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                 |
| 64                                | (40) | SIGNED     | 4   | TTE00BTK (0) | TOKEN. * INPUT REGISTER 1.                                                                  |
| 64                                | (40) | BITSTRING  | 1   | TTE00BT1     | KEY. NOT FORMATTED.                                                                         |
| 65                                | (41) | BITSTRING  | 1   | TTE00BT2     | RESERVED.                                                                                   |
| 66                                | (42) | SIGNED     | 2   | TTE00BT3     | BASE DEVICE NUMBER.                                                                         |
| 68                                | (44) | SIGNED     | 4   | TTE00BED (0) | END OF IO TTE.                                                                              |
| Comment                           |      |            |     |              |                                                                                             |
| MCH - MACHINE CHECK INTERRUPT TTE |      |            |     |              |                                                                                             |
| End of Comment                    |      |            |     |              |                                                                                             |
| 12                                | (C)  | SIGNED     | 4   | TTE013 (0)   | MACHINE CHECK INTERRUPT (MCH).                                                              |
| 12                                | (C)  | ADDRESS    | 4   | TTE013TB     | CURRENT TCB ADDRESS OR 0. * PSATOLD.                                                        |
| 16                                | (10) | SIGNED     | 2   | TTE013R1     | RESERVED.                                                                                   |
| 18                                | (12) | SIGNED     | 2   | TTE013HA     | HOME ADDRESS SPACE. * PSAOLD->ASCBASID.                                                     |
| 20                                | (14) | SIGNED     | 2   | TTE013PA     | PASID. * CONTROL REGISTER 4.                                                                |
| 22                                | (16) | SIGNED     | 2   | TTE013SA     | SASID. * CONTROL REGISTER 3.                                                                |
| 24                                | (18) | CHARACTER  | 8   | TTE013PW (0) | MACHINE CHECK OLD PSW. * FLCMOPSW.                                                          |
| 24                                | (18) | CHARACTER  | 4   | TTE013P1     | 1ST HALF OF PSW.                                                                            |
| 28                                | (1C) | CHARACTER  | 4   | TTE013P2     | 2ND HALF OF PSW.                                                                            |
| 32                                | (20) | CHARACTER  | 8   | TTE013MC (0) | MACHINE CHECK INTERRUPT CODE. * FLCMCIC.                                                    |
| 32                                | (20) | CHARACTER  | 4   | TTE013M1     | PART 1 OF FLCMCIC.                                                                          |
| 36                                | (24) | CHARACTER  | 4   | TTE013M2     | PART 2 OF FLCMCIC.                                                                          |
| 40                                | (28) | SIGNED     | 4   | TTE013PS     | PSASUPER.                                                                                   |
| 44                                | (2C) | SIGNED     | 4   | TTE013LH     | PSACLHS.                                                                                    |
| 48                                | (30) | ADDRESS    | 4   | TTE013PL     | PSALOCAL.                                                                                   |
| 52                                | (34) | SIGNED     | 4   | TTE013LE     | PSACLHSE.                                                                                   |
| 56                                | (38) | SIGNED     | 4   | TTE013ED (0) | END OF MCH TTE.                                                                             |
| Comment                           |      |            |     |              |                                                                                             |
| MSCH - MODIFY SUBCHANNEL TTE      |      |            |     |              |                                                                                             |
| End of Comment                    |      |            |     |              |                                                                                             |
| 12                                | (C)  | SIGNED     | 4   | TTE101 (0)   | MODIFY SUBCHANNEL (MSCH).                                                                   |
| 12                                | (C)  | ADDRESS    | 4   | TTE101TB     | TCB ADDRESS FROM SRB. *<br>IOBPTR(R2)->IOSSRB->SRBPCTCB.                                    |
| 16                                | (10) | SIGNED     | 2   | TTE101AD     | ASID FROM IOCB. * IOBPTR(R2)->IOSASID.                                                      |
| 18                                | (12) | SIGNED     | 2   | TTE101HA     | HOME ADDRESS SPACE. * PSAOLD->ASCBASID.                                                     |
| 20                                | (14) | BITSTRING  | 1   | TTE101CC     | CONDITION CODE. * INPUT REGISTER 0.                                                         |
| 21                                | (15) | BITSTRING  | 1   | TTE101R1     | RESERVED.                                                                                   |
| 22                                | (16) | SIGNED     | 2   | TTE101DN     | DEVICE NUMBER. * IOBPTR(R2)->IOSUCB->UCBCHAN.                                               |
| 24                                | (18) | ADDRESS    | 4   | TTE101UB     | UCB ADDRESS (COMMON SEGMENT). *<br>ORBPTR(R3)->WORD 1.<br>ORB WORD 2. * ORBPTR(R3)->WORD 2. |
| 28                                | (1C) | SIGNED     | 4   | TTE101O2 (0) | ORB WORD 2. * ORBPTR(R3)->WORD 2.                                                           |
| 28                                | (1C) | BITSTRING  | 1   | TTE101F1     | SCHFLG1 FROM SCHIB USED FOR MSCH INSTRUCTION.                                               |
| 29                                | (1D) | BITSTRING  | 1   | TTE101F2     | SCHFLG2 FROM SCHIB USED FOR MSCH INSTRUCTION.                                               |
| 30                                | (1E) | BITSTRING  | 1   | TTE101LM     | SCHLPM FROM SCHIB USED FOR MSCH INSTRUCTION.                                                |
| 31                                | (1F) | BITSTRING  | 1   | TTE101PM     | SCHPOM FROM SCHIB USED FOR MSCH INSTRUCTION.                                                |
| 32                                | (20) | SIGNED     | 4   | TTE101O3 (0) | ORB WORD 3. * ORBPTR(R3)->WORD 3.                                                           |
| 32                                | (20) | SIGNED     | 2   | TTE101MI     | SCHMBI FROM SCHIB USED FOR MSCH INSTRUCTION.                                                |
| 34                                | (22) | BITSTRING  | 1   | TTE101P2     | IOSOPT2 FROM MSCH IOCB.                                                                     |
| 35                                | (23) | BITSTRING  | 1   | TTE101FB     | IOSFLB FROM MSCH IOCB.                                                                      |
| 36                                | (24) | ADDRESS    | 4   | TTE101IO     | IOCB ADDRESS. * INPUT REGISTER 2.                                                           |
| 40                                | (28) | SIGNED     | 4   | TTE101TK (0) | TOKEN. * INPUT REGISTER 1.                                                                  |
| 40                                | (28) | BITSTRING  | 1   | TTE101T1     | KEY. NOT FORMATTED.                                                                         |
| 41                                | (29) | BITSTRING  | 1   | TTE101T2     | RESERVED.                                                                                   |
| 42                                | (2A) | SIGNED     | 2   | TTE101T3     | BASE DEVICE NUMBER.                                                                         |
| 44                                | (2C) | SIGNED     | 4   | TTE101ED (0) | END OF MSCH TTE.                                                                            |



## Offsets

| Dec                          | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                            |
|------------------------------|------|------------|-----|--------------|------------------------------------------------------------------------------------------------------------------------|
| Comment                      |      |            |     |              |                                                                                                                        |
| PGM - PROGRAM INTERRUPT TTE  |      |            |     |              |                                                                                                                        |
| End of Comment               |      |            |     |              |                                                                                                                        |
| 12                           | (C)  | SIGNED     | 4   | TTE007 (0)   | PROGRAM INTERRUPT (PGM).                                                                                               |
| 12                           | (C)  | ADDRESS    | 4   | TTE007TB     | CURRENT TCB ADDRESS OR 0. * PSATOLD.                                                                                   |
| 16                           | (10) | SIGNED     | 2   | TTE007R1     | RESERVED.                                                                                                              |
| 18                           | (12) | SIGNED     | 2   | TTE007HA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID.                                                                               |
| 20                           | (14) | SIGNED     | 2   | TTE007PA     | PASID. * CONTROL REGISTER 4.                                                                                           |
| 22                           | (16) | SIGNED     | 2   | TTE007SA     | SASID. * CONTROL REGISTER 3.                                                                                           |
| 24                           | (18) | SIGNED     | 4   | TTE007LH     | PSACLHS.                                                                                                               |
| 28                           | (1C) | ADDRESS    | 4   | TTE007PL     | PSALOCAL.                                                                                                              |
| 32                           | (20) | SIGNED     | 4   | TTE007LE     | PSACLHSE.                                                                                                              |
| 36                           | (24) | CHARACTER  | 8   | TTE007PW (0) | PROGRAM INTERRUPT PSW. * PROGRAM INTERRUPT STATUS * ADDRESS(R2)->WORDS 1 * AND 2.                                      |
| 36                           | (24) | CHARACTER  | 4   | TTE007P1     | 1ST HALF OF PSW.                                                                                                       |
| 40                           | (28) | CHARACTER  | 4   | TTE007P2     | 2ND HALF OF PSW.                                                                                                       |
| 44                           | (2C) | SIGNED     | 2   | TTE007IL     | PROGRAM INSTRUCTION LENGTH. * PROGRAM INTERRUPT STATUS * ADDRESS(R2)->WORD 3.                                          |
| 46                           | (2E) | SIGNED     | 2   | TTE007CD     | PROGRAM INTERRUPT CODE. * PROGRAM INTERRUPT STATUS * ADDRESS(R2)->WORD 3.                                              |
| 48                           | (30) | ADDRESS    | 4   | TTE007ZT (0) | TEA - Z/Architecture                                                                                                   |
| 48                           | (30) | ADDRESS    | 4   | TTE007TA     | TEA CONTENTS. HIGH ORDER BIT INDICATES PRIMARY (0) OR SECONDARY (1). * PROGRAM INTERRUPT STATUS * ADDRESS(R2)->WORD 4. |
| 52                           | (34) | SIGNED     | 4   | TTE007ED (0) | END OF PGM TTE - ESA                                                                                                   |
| 52                           | (34) | ADDRESS    | 4   | TTE007ZL     | TEA bits 32-63 - z/Arch                                                                                                |
| 56                           | (38) | SIGNED     | 4   | TTE007ZD (0) | END OF PGM TTE - z/Arch                                                                                                |
| Comment                      |      |            |     |              |                                                                                                                        |
| RSCH - RESUME SUBCHANNEL TTE |      |            |     |              |                                                                                                                        |
| End of Comment               |      |            |     |              |                                                                                                                        |
| 12                           | (C)  | SIGNED     | 4   | TTE401 (0)   | RESUME SUBCHANNEL (RSCH).                                                                                              |
| 12                           | (C)  | ADDRESS    | 4   | TTE401TB     | TCB ADDRESS FROM SRB. * IOBPTR(R2)->IOSSRB->SRBPTCB.                                                                   |
| 16                           | (10) | SIGNED     | 2   | TTE401AD     | ASID FROM IOSB. * IOBPTR(R2)->IOSASID.                                                                                 |
| 18                           | (12) | SIGNED     | 2   | TTE401HA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID.                                                                               |
| 20                           | (14) | BITSTRING  | 1   | TTE401CC     | CONDITION CODE. * INPUT REGISTER 0.                                                                                    |
| 21                           | (15) | BITSTRING  | 1   | TTE401DI     | DRIVER ID. * IOBPTR(R2)->IOSDVRID.                                                                                     |
| 22                           | (16) | SIGNED     | 2   | TTE401DN     | DEVICE NUMBER. * IOBPTR(R2)->IOSUCB->UCBCHAN.                                                                          |
| 24                           | (18) | ADDRESS    | 4   | TTE401UB     | UCB ADDRESS FROM IOSB. * IOBPTR(R2)->IOSUCB.                                                                           |
| 28                           | (1C) | ADDRESS    | 4   | TTE401IO     | IOSB ADDRESS. * INPUT REGISTER 2.                                                                                      |
| 32                           | (20) | SIGNED     | 4   | TTE401TK (0) | TOKEN. * INPUT REGISTER 1.                                                                                             |
| 32                           | (20) | BITSTRING  | 1   | TTE401T1     | KEY. NOT FORMATTED.                                                                                                    |
| 33                           | (21) | BITSTRING  | 1   | TTE401T2     | RESERVED.                                                                                                              |
| 34                           | (22) | SIGNED     | 2   | TTE401T3     | BASE DEVICE NUMBER.                                                                                                    |
| 36                           | (24) | SIGNED     | 4   | TTE401ED (0) | END OF RSCH TTE.                                                                                                       |
| Comment                      |      |            |     |              |                                                                                                                        |
| RST - RESTART INTERRUPT TTE  |      |            |     |              |                                                                                                                        |
| End of Comment               |      |            |     |              |                                                                                                                        |
| 12                           | (C)  | SIGNED     | 4   | TTE015 (0)   | RESTART INTERRUPT (RST).                                                                                               |
| 12                           | (C)  | ADDRESS    | 4   | TTE015TB     | CURRENT TCB ADDRESS OR 0. * PSATOLD.                                                                                   |
| 16                           | (10) | SIGNED     | 2   | TTE015R1     | RESERVED.                                                                                                              |
| 18                           | (12) | SIGNED     | 2   | TTE015HA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID.                                                                               |
| 20                           | (14) | SIGNED     | 2   | TTE015PA     | PASID. * CONTROL REGISTER 4.                                                                                           |
| 22                           | (16) | SIGNED     | 2   | TTE015SA     | SASID. * CONTROL REGISTER 3.                                                                                           |
| 24                           | (18) | CHARACTER  | 8   | TTE015PW (0) | RESTART OLD PSW. * FLCROPSW.                                                                                           |

## TTE Map

| Offsets |      |            |     |              |                                           |
|---------|------|------------|-----|--------------|-------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                               |
| 24      | (18) | CHARACTER  | 4   | TTE015P1     | 1ST HALF OF PSW.                          |
| 28      | (1C) | CHARACTER  | 4   | TTE015P2     | 2ND HALF OF PSW.                          |
| 32      | (20) | SIGNED     | 4   | TTE015GF     | REGISTER 15 CONTENT. * INPUT REGISTER 15. |
| 36      | (24) | SIGNED     | 4   | TTE015G0     | REGISTER 0 CONTENT. * INPUT REGISTER 0.   |
| 40      | (28) | SIGNED     | 4   | TTE015G1     | REGISTER 1 CONTENT. * INPUT REGISTER 1.   |
| 44      | (2C) | SIGNED     | 4   | TTE015PS     | PSASUPER.                                 |
| 48      | (30) | SIGNED     | 4   | TTE015MW     | PSAMODEW.                                 |
| 52      | (34) | SIGNED     | 4   | TTE015LH     | PSACLHS.                                  |
| 56      | (38) | ADDRESS    | 4   | TTE015PL     | PSALOCAL.                                 |
| 60      | (3C) | SIGNED     | 4   | TTE015LE     | PSACLHSE.                                 |
| 64      | (40) | SIGNED     | 4   | TTE015ED (0) | END OF RST TTE.                           |

Comment

SPER - SLIP/PER EVENT TTE

End of Comment

|    |      |           |   |              |                                                                                   |
|----|------|-----------|---|--------------|-----------------------------------------------------------------------------------|
| 12 | (C)  | SIGNED    | 4 | TTE009 (0)   | SLIP/PER (SPER).                                                                  |
| 12 | (C)  | ADDRESS   | 4 | TTE009TB     | CURRENT TCB ADDRESS OR 0. * PSATOLD.                                              |
| 16 | (10) | BITSTRING | 2 | TTE009PC     | PER CODE. * SLIP/PER STATUS ADDRESS * (R3)-> BYTE 1.                              |
| 18 | (12) | SIGNED    | 2 | TTE009HA     | HOME ADDRESS SPACE. * PSAOLD->ASCBASID.                                           |
| 20 | (14) | SIGNED    | 2 | TTE009PA     | PASID. * CONTROL REGISTER 4.                                                      |
| 22 | (16) | SIGNED    | 2 | TTE009SA     | SASID. * CONTROL REGISTER 3.                                                      |
| 24 | (18) | CHARACTER | 8 | TTE009PW (0) | PROGRAM INTERRUPT PSW. * PROGRAM INTERRUPT STATUS * ADDRESS(R2)->WORDS 1 * AND 2. |
| 24 | (18) | CHARACTER | 4 | TTE009P1     | 1ST HALF OF PSW.                                                                  |
| 28 | (1C) | CHARACTER | 4 | TTE009P2     | 2ND HALF OF PSW.                                                                  |
| 32 | (20) | SIGNED    | 2 | TTE009IL     | PROGRAM INSTRUCTION LENGTH. * PROGRAM INTERRUPT STATUS * ADDRESS(R2)->WORD 3.     |
| 34 | (22) | SIGNED    | 2 | TTE009CD     | PROGRAM INTERRUPT CODE. * PROGRAM INTERRUPT STATUS * ADDRESS(R2)->WORD 3.         |
| 36 | (24) | CHARACTER | 4 | TTE009ID     | SLIP/PER TRAP ID. * SLIP/PER TRAP ID ADDRESS * (R1)->WORD 1.                      |
| 40 | (28) | ADDRESS   | 4 | TTE009IA     | PER ADDRESS. * SLIP/PER STATUS ADDRESS * (R3)-> BYTES 3 THROUGH 6.                |
| 44 | (2C) | ADDRESS   | 4 | TTE009IB     | PER ADDRESS. * SLIP/PER STATUS ADDRESS * (R3)-> BYTES 7 THROUGH 10.               |
| 48 | (30) | SIGNED    | 4 | TTE009LH     | PSACLHS.                                                                          |
| 52 | (34) | SIGNED    | 4 | TTE009LE     | PSACLHSE.                                                                         |
| 56 | (38) | ADDRESS   | 4 | TTE009PL     | PSALOCAL.                                                                         |
| 60 | (3C) | SIGNED    | 4 | TTE009ED (0) | END OF SLIP/PER TTE.                                                              |

Comment

SRB - SRB DISPATCH TTE

End of Comment

|    |      |           |   |              |                                                    |
|----|------|-----------|---|--------------|----------------------------------------------------|
| 12 | (C)  | SIGNED    | 4 | TTE10F (0)   | SRB DISPATCH (SRB).                                |
| 12 | (C)  | ADDRESS   | 4 | TTE10FTB     | WORK UNIT ADDRESS. * SRBPTR(R0)->SRBWEB.           |
| 16 | (10) | BITSTRING | 1 | TTE10FSF     | SRB FLAG BYTE. * SRBPTR(R0)->SRBFLGS.              |
| 17 | (11) | BITSTRING | 1 | TTE10FLH     | SRBHLHI. * SRBPTR(R0)->SRBHLHI.                    |
| 18 | (12) | SIGNED    | 2 | TTE10FHA     | HOME ADDRESS SPACE. * PSAOLD->ASCBASID.            |
| 20 | (14) | CHARACTER | 8 | TTE10FPW (0) | PSW TO RECEIVE CONTROL ON SRB DISPATCH. * PSASMPW. |
| 20 | (14) | CHARACTER | 4 | TTE10FP1     | 1ST HALF OF PSW.                                   |
| 24 | (18) | CHARACTER | 4 | TTE10FP2     | 2ND HALF OF PSW.                                   |
| 28 | (1C) | SIGNED    | 2 | TTE10FFN     | CPU AFFINITY. * SRBPTR(R0)->SRBCPAFF.              |
| 30 | (1E) | SIGNED    | 2 | TTE10FAP     | RELATED ASID. * SRBPTR(R0)->SRBPASID.              |
| 32 | (20) | SIGNED    | 4 | TTE10FG0     | REGISTER 0 CONTENTS. * INPUT REGISTER 0.           |
| 36 | (24) | SIGNED    | 4 | TTE10FG1     | REGISTER 1 CONTENTS. * INPUT REGISTER 1.           |
| 40 | (28) | ADDRESS   | 4 | TTE10FPT     | PURGE TCB ADDRESS. * SRBPTR(R0)->SRBPTCB.          |
| 44 | (2C) | SIGNED    | 4 | TTE10FED (0) | END OF SRB TTE.                                    |

| Offsets                                    |      |            |     |              |                                                                 |
|--------------------------------------------|------|------------|-----|--------------|-----------------------------------------------------------------|
| Dec                                        | Hex  | Type/Value | Len | Name (Dim)   | Description                                                     |
| Comment                                    |      |            |     |              |                                                                 |
| SS - SERVICE SIGNAL EXTERNAL INTERRUPT TTE |      |            |     |              |                                                                 |
| End of Comment                             |      |            |     |              |                                                                 |
| 12                                         | (C)  | SIGNED     | 4   | TTE203 (0)   | SS EXTERNAL INTERRUPT (SS).                                     |
| 12                                         | (C)  | ADDRESS    | 4   | TTE203TB     | CURRENT TCB ADDRESS OR 0. * PSATOLD.                            |
| 16                                         | (10) | SIGNED     | 2   | TTE203R1     | RESERVED.                                                       |
| 18                                         | (12) | SIGNED     | 2   | TTE203HA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID.                        |
| 20                                         | (14) | SIGNED     | 2   | TTE203PA     | PASID. * INPUT REGISTER 4.                                      |
| 22                                         | (16) | SIGNED     | 2   | TTE203SA     | SASID. * INPUT REGISTER 4.                                      |
| 24                                         | (18) | CHARACTER  | 8   | TTE203PW (0) | EXTERNAL OLD PSW. * FLCEOPSW.                                   |
| 24                                         | (18) | CHARACTER  | 4   | TTE203P1     | 1ST HALF OF PSW.                                                |
| 28                                         | (1C) | CHARACTER  | 4   | TTE203P2     | 2ND HALF OF PSW.                                                |
| 32                                         | (20) | SIGNED     | 4   | TTE203CD     | EXTERNAL INTERRUPT CODE. * PSAEPPSW.                            |
| 36                                         | (24) | ADDRESS    | 4   | TTE203BA     | SCCB ADDRESS ASSOCIATED WITH THE SERVICE SIGNAL.                |
| 40                                         | (28) | SIGNED     | 4   | TTE203CM     | SCLP COMMAND WORD ASSOCIATED WITH THE SERVICE SIGNAL INTERRUPT. |
| 44                                         | (2C) | SIGNED     | 2   | TTE203R3     | RESERVED. HARDWARE FLAGS NO LONGER PART OF THE SS TRACE ENTRY   |
| 46                                         | (2E) | SIGNED     | 2   | TTE203RC     | SERVICE PROCESSOR RESPONSE AND REASON CODE.                     |
| 48                                         | (30) | SIGNED     | 2   | TTE203R2     | RESERVED.                                                       |
| 50                                         | (32) | SIGNED     | 2   | TTE203AD     | SS ASID.                                                        |
| 52                                         | (34) | ADDRESS    | 4   | TTE203AT     | SS TCB ADDRESS.                                                 |
| 56                                         | (38) | SIGNED     | 4   | TTE203LH     | PSACLHS.                                                        |
| 60                                         | (3C) | ADDRESS    | 4   | TTE203PL     | PSALOCAL.                                                       |
| 64                                         | (40) | SIGNED     | 4   | TTE203LE     | PSACLHSE.                                                       |
| 68                                         | (44) | SIGNED     | 4   | TTE203ED (0) | END OF SS TTE.                                                  |
| Comment                                    |      |            |     |              |                                                                 |
| SIGA - Signal adapter TTE                  |      |            |     |              |                                                                 |
| End of Comment                             |      |            |     |              |                                                                 |
| 12                                         | (C)  | SIGNED     | 4   | TTE501 (0)   | Signal adapter (SIGA).                                          |
| 12                                         | (C)  | ADDRESS    | 4   | TTE501TB     | TCB address.                                                    |
| 16                                         | (10) | SIGNED     | 2   |              | Reserved                                                        |
| 18                                         | (12) | SIGNED     | 2   | TTE501HA     | Home ASID.                                                      |
| 20                                         | (14) | BITSTRING  | 1   | TTE501CC     | Condition code                                                  |
| 21                                         | (15) | BITSTRING  | 1   | TTE501FC     | SIGA function code                                              |
| 22                                         | (16) | SIGNED     | 2   | TTE501DN     | Device number.                                                  |
| 24                                         | (18) | SIGNED     | 4   | TTE501SI     | SID.                                                            |
| 28                                         | (1C) | ADDRESS    | 4   | TTE501M1     | Bit mask (SYNCH).                                               |
| 32                                         | (20) | ADDRESS    | 4   | TTE501M2     | Bit mask (SYNCH).                                               |
| 36                                         | (24) | SIGNED     | 4   | TTE501QI     | QIB pointer.                                                    |
| 40                                         | (28) | ADDRESS    | 4   | TTE501UB     | UCB address.                                                    |
| 44                                         | (2C) | SIGNED     | 4   | TTE501ED (0) | End of SIGA TTE.                                                |
| Comment                                    |      |            |     |              |                                                                 |
| SSCH - START SUBCHANNEL TTE                |      |            |     |              |                                                                 |
| End of Comment                             |      |            |     |              |                                                                 |
| 12                                         | (C)  | SIGNED     | 4   | TTE001 (0)   | START SUBCHANNEL (SSCH).                                        |
| 12                                         | (C)  | ADDRESS    | 4   | TTE001TB     | TCB ADDRESS FROM SRB. * IOBPTR(R2)->IOSSRB->SRBPTCB.            |
| 16                                         | (10) | SIGNED     | 2   | TTE001AD     | ASID FROM IOSB. * IOBPTR(R2)->IOSASID.                          |
| 18                                         | (12) | SIGNED     | 2   | TTE001HA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID.                        |
| 20                                         | (14) | BITSTRING  | 1   | TTE001CC     | CONDITION CODE. * INPUT REGISTER 0.                             |
| 21                                         | (15) | BITSTRING  | 1   | TTE001DI     | DRIVER ID. * IOBPTR(R2)->IOSDVRID.                              |
| 22                                         | (16) | SIGNED     | 2   | TTE001DN     | DEVICE NUMBER. * TTE001UB->UCBCHAN.                             |
| 24                                         | (18) | ADDRESS    | 4   | TTE001UB     | ORB WORD 1 - UCB ADDRESS. * ORBPTR(R3)->WORD 1.                 |
| 28                                         | (1C) | SIGNED     | 4   | TTE001O2     | ORB WORD 2. * ORBPTR(R3)->WORD 2.                               |

## TTE Map

| Offsets |      |            |     |              |                                             |
|---------|------|------------|-----|--------------|---------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                 |
| 32      | (20) | SIGNED     | 4   | TTE001O3     | ORB WORD 3. * ORBPTR(R3)->WORD 3.           |
| 36      | (24) | SIGNED     | 4   | TTE001O4     | ORB WORD 4. * ORBPTR(R3)->WORD 4            |
| 40      | (28) | ADDRESS    | 4   | TTE001IO     | IOSB ADDRESS. * INPUT REGISTER 2.           |
| 44      | (2C) | SIGNED     | 4   | TTE001TK (0) | TOKEN. * INPUT REGISTER 1.                  |
| 44      | (2C) | BITSTRING  | 1   | TTE001T1     | KEY. NOT FORMATTED.                         |
| 45      | (2D) | BITSTRING  | 1   | TTE001T2     | RESERVED.                                   |
| 46      | (2E) | SIGNED     | 2   | TTE001T3     | BASE DEVICE NUMBER.                         |
| 48      | (30) | SIGNED     | 4   | TTE001CU     | CAPTURE UCB ADDRESS. * IOSBPTR(R2)->IOSUCB. |
| 52      | (34) | SIGNED     | 4   | TTE001ED (0) | END OF SSCH TTE.                            |

Comment

### SSRB - SUSPENDED SRB DISPATCH TTE

End of Comment

|    |      |           |   |              |                                          |
|----|------|-----------|---|--------------|------------------------------------------|
| 12 | (C)  | SIGNED    | 4 | TTE20F (0)   | SUSPENDED SRB DISPATCH (SSRB).           |
| 12 | (C)  | ADDRESS   | 4 | TTE20FTB     | WORK UNIT ADDRESS. * PSALCCAV->LCCACWEB. |
| 16 | (10) | BITSTRING | 1 | TTE20FR1     | RESERVED.                                |
| 17 | (11) | BITSTRING | 1 | TTE20FLH     | PSACLHS BYTE 4. * PSACLHS4.              |
| 18 | (12) | SIGNED    | 2 | TTE20FHA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID. |
| 20 | (14) | SIGNED    | 2 | TTE20FPA     | PASID. * INPUT REGISTER 13.              |
| 22 | (16) | SIGNED    | 2 | TTE20FSA     | SASID. * INPUT REGISTER 13.              |
| 24 | (18) | CHARACTER | 8 | TTE20FPW (0) | PSW TO BE REDISPATCHED. * PSAPSWSV.      |
| 24 | (18) | CHARACTER | 4 | TTE20FP1     | 1ST HALF OF PSW.                         |
| 28 | (1C) | CHARACTER | 4 | TTE20FP2     | 2ND HALF OF PSW.                         |
| 32 | (20) | ADDRESS   | 4 | TTE20FPT     | RELATED TCB. * PSALCCAV->LCCAPGTA+2.     |
| 36 | (24) | SIGNED    | 4 | TTE20FSP     | SSRB ADDRESS * INPUT REGISTER 1          |
| 40 | (28) | SIGNED    | 2 | TTE20FFN     | CPU AFFINITY. * PSALCCAV->LCCASAFN.      |
| 42 | (2A) | SIGNED    | 2 | TTE20FAP     | RELATED ASID. * PSALCCAV->LCCAPGTA.      |
| 44 | (2C) | ADDRESS   | 4 | TTE20FPL     | PSALOCAL.                                |
| 48 | (30) | SIGNED    | 4 | TTE20FED (0) | END OF SSRB TTE.                         |

Comment

### SUSP - LOCK SUSPENSION TTE

End of Comment

|    |      |           |   |              |                                                                                                                                                                                              |
|----|------|-----------|---|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12 | (C)  | SIGNED    | 4 | TTE019 (0)   | SUSPENSION (SUSP).                                                                                                                                                                           |
| 12 | (C)  | ADDRESS   | 4 | TTE019TB     | ADDRESS OF SUSPENDED TCB OR RELATED TCB. * INPUT REGISTER 4 OR * SSRBPTR(R4)->SRBPTCB.                                                                                                       |
| 16 | (10) | SIGNED    | 2 | TTE019R1     | RESERVED.                                                                                                                                                                                    |
| 18 | (12) | SIGNED    | 2 | TTE019HA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID.                                                                                                                                                     |
| 20 | (14) | ADDRESS   | 4 | TTE019RT     | RETURN ADDRESS FOR THE CALLER OF THE SERVICE ROUTINE. * INPUT REGISTER 14.                                                                                                                   |
| 24 | (18) | ADDRESS   | 4 | TTE019RB     | ADDRESS OF SUSPENDED RB OR 0. * INPUT REGISTER 5.                                                                                                                                            |
| 28 | (1C) | ADDRESS   | 4 | TTE019SB     | ADDRESS OF SUSPENDED SRB OR 0. * INPUT REGISTER 4 OR 0.                                                                                                                                      |
| 32 | (20) | CHARACTER | 4 | TTE019SI     | SUSPENSION TYPE IDENTIFIER. (LOCL, CML, CMS, CEDQ, CSMF IN EBCDIC). * INPUT REGISTER 12.                                                                                                     |
| 36 | (24) | ADDRESS   | 4 | TTE019AD     | ADDRESS ASSOCIATED WITH SUSPENSION OR 0: LOCL - 0. CML - ASCB ADDRESS FOR CML LOCK REQUESTED. CMS - LOCKWORD ADDRESS. CEDQ - LOCKWORD ADDRESS. CSMF - LOCKWORD ADDRESS. * INPUT REGISTER 11. |
| 40 | (28) | SIGNED    | 4 | TTE019LH     | CLHS - CPU LOCKS HELD STRING * INPUT REGISTER 2.                                                                                                                                             |
| 44 | (2C) | ADDRESS   | 4 | TTE019PL     | LOCAL LOCK * INPUT REGISTER 3.                                                                                                                                                               |
| 48 | (30) | SIGNED    | 4 | TTE019LE     | PSACLHSE.                                                                                                                                                                                    |
| 52 | (34) | SIGNED    | 4 | TTE019ED (0) | END OF SUSP TTE.                                                                                                                                                                             |

Comment

### SVC - SVC INTERRUPT TTE

End of Comment

## Offsets

| Dec | Hex  | Type/Value | Len | Name (Dim)   | Description                                |
|-----|------|------------|-----|--------------|--------------------------------------------|
| 12  | (C)  | SIGNED     | 4   | TTE005 (0)   | GENERAL SVC INTERRUPT (SVC).               |
| 12  | (C)  | ADDRESS    | 4   | TTE005TB     | CURRENT TCB ADDRESS OR 0. * PSATOLD.       |
| 16  | (10) | SIGNED     | 2   | TTE005SN     | SVC NUMBER. * FLCSVCN.                     |
| 18  | (12) | SIGNED     | 2   | TTE005HA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID.   |
| 20  | (14) | CHARACTER  | 8   | TTE005PW (0) | SVC OLD PSW. * FLCSOPSW.                   |
| 20  | (14) | CHARACTER  | 4   | TTE005P1     | 1ST HALF OF PSW.                           |
| 24  | (18) | CHARACTER  | 4   | TTE005P2     | 2ND HALF OF PSW.                           |
| 28  | (1C) | SIGNED     | 4   | TTE005GF     | REGISTER 15 CONTENTS. * INPUT REGISTER 15. |
| 32  | (20) | SIGNED     | 4   | TTE005G0     | REGISTER 0 CONTENTS. * INPUT REGISTER 0.   |
| 36  | (24) | SIGNED     | 4   | TTE005G1     | REGISTER 1 CONTENTS. * INPUT REGISTER 1.   |
| 40  | (28) | SIGNED     | 4   | TTE005ED (0) | END OF SVC TTE.                            |

Comment

SVCE - SVC ERROR TTE

End of Comment

|    |      |           |   |              |                                            |
|----|------|-----------|---|--------------|--------------------------------------------|
| 12 | (C)  | SIGNED    | 4 | TTEF05 (0)   | SVC ERROR (SVCE).                          |
| 12 | (C)  | ADDRESS   | 4 | TTEF05TB     | CURRENT TCB ADDRESS OR 0. * PSATOLD.       |
| 16 | (10) | SIGNED    | 2 | TTEF05SN     | SVC NUMBER. * FLCSVCN.                     |
| 18 | (12) | SIGNED    | 2 | TTEF05HA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID.   |
| 20 | (14) | SIGNED    | 2 | TTEF05PA     | PASID. * CONTROL REGISTER 4.               |
| 22 | (16) | SIGNED    | 2 | TTEF05SA     | SASID. * CONTROL REGISTER 3.               |
| 24 | (18) | CHARACTER | 8 | TTEF05PW (0) | SVC OLD PSW. * FLCSOPSW.                   |
| 24 | (18) | CHARACTER | 4 | TTEF05P1     | 1ST HALF OF PSW.                           |
| 28 | (1C) | CHARACTER | 4 | TTEF05P2     | 2ND HALF OF PSW.                           |
| 32 | (20) | SIGNED    | 4 | TTEF05GF     | REGISTER 15 CONTENTS. * INPUT REGISTER 15. |
| 36 | (24) | SIGNED    | 4 | TTEF05G0     | REGISTER 0 CONTENTS. * INPUT REGISTER 0.   |
| 40 | (28) | SIGNED    | 4 | TTEF05G1     | REGISTER 1 CONTENTS. * INPUT REGISTER 1.   |
| 44 | (2C) | SIGNED    | 4 | TTEF05MW     | PSAMODEW.                                  |
| 48 | (30) | SIGNED    | 4 | TTEF05LH     | PSACLHS.                                   |
| 52 | (34) | ADDRESS   | 4 | TTEF05PL     | PSALOCAL.                                  |
| 56 | (38) | SIGNED    | 4 | TTEF05LE     | PSACLHSE.                                  |
| 60 | (3C) | SIGNED    | 4 | TTEF05ED (0) | END OF SVCE TTE.                           |

Comment

SVCR - SVC RETURN TTE

End of Comment

|    |      |           |   |              |                                                                  |
|----|------|-----------|---|--------------|------------------------------------------------------------------|
| 12 | (C)  | SIGNED    | 4 | TTE105 (0)   | SVC RETURN (SVCR).                                               |
| 12 | (C)  | ADDRESS   | 4 | TTE105TB     | CURRENT TCB ADDRESS. * PSATOLD.                                  |
| 16 | (10) | SIGNED    | 2 | TTE105SN     | SVC NUMBER. * ((PSATOLD->TCBRBP)- * (RBPRFLNA)->RBINTCOD.        |
| 18 | (12) | SIGNED    | 2 | TTE105HA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID.                         |
| 20 | (14) | CHARACTER | 8 | TTE105PW (0) | PSW TO RECEIVE CONTROL ON REDISPATCH. * PSATOLD->TCBRBP->RBOPSW. |
| 20 | (14) | CHARACTER | 4 | TTE105P1     | 1ST HALF OF PSW.                                                 |
| 24 | (18) | CHARACTER | 4 | TTE105P2     | 2ND HALF OF PSW.                                                 |
| 28 | (1C) | SIGNED    | 4 | TTE105GF     | REGISTER 15 CONTENTS. * INPUT REGISTER 15.                       |
| 32 | (20) | SIGNED    | 4 | TTE105G0     | REGISTER 0 CONTENTS. * INPUT REGISTER 0.                         |
| 36 | (24) | SIGNED    | 4 | TTE105G1     | REGISTER 1 CONTENTS. * INPUT REGISTER 1.                         |
| 40 | (28) | SIGNED    | 4 | TTE105ED (0) | END OF SVCR TTE.                                                 |

Comment

SSRV - PC OR BRANCH ENTERED SYSTEM SERVICE TTE

End of Comment

|    |      |         |   |            |                                               |
|----|------|---------|---|------------|-----------------------------------------------|
| 12 | (C)  | SIGNED  | 4 | TTE205 (0) | PC OR BRANCH ENTERED SYSTEM SERVICE (SSRV)    |
| 12 | (C)  | ADDRESS | 4 | TTE205TB   | CURRENT TCB ADDRESS OR 0. PSATOLD.            |
| 16 | (10) | SIGNED  | 2 | TTE205SI   | SSRVID. ASSOCIATED SERVICE IDENTIFIER NUMBER. |
| 18 | (12) | SIGNED  | 2 | TTE205HA   | HOME ADDRESS SPACE. PSAAOLD->ASCBASID.        |

## TTE Map

| Offsets |      |            |     |              |                                                                                          |
|---------|------|------------|-----|--------------|------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                              |
| 20      | (14) | ADDRESS    | 4   | TTE205C1     | RETURN ADDRESS OF THE CALLER OF THE BRANCH ENTERED SERVICE OR OF THE PC ENTERED SERVICE. |
| 24      | (18) | SIGNED     | 4   | TTE205U1     | 1ST WORD OF INFORMATION UNIQUE FOR ASSOCIATED SERVICE IDENTIFIER.                        |
| 28      | (1C) | SIGNED     | 4   | TTE205U2     | 2ND WORD OF INFORMATION UNIQUE FOR ASSOCIATED SERVICE IDENTIFIER.                        |
| 32      | (20) | SIGNED     | 4   | TTE205U3     | 3RD WORD OF INFORMATION UNIQUE FOR ASSOCIATED SERVICE IDENTIFIER.                        |
| 36      | (24) | SIGNED     | 4   | TTE205U4     | 4TH WORD OF INFORMATION UNIQUE FOR ASSOCIATED SERVICE IDENTIFIER.                        |
| 40      | (28) | SIGNED     | 4   | TTE205ED (0) | END OF SSRV TTE.                                                                         |

Comment

### USRN - USER EVENT TTE

End of Comment

|    |      |         |   |              |                                                         |
|----|------|---------|---|--------------|---------------------------------------------------------|
| 12 | (C)  | SIGNED  | 4 | TTE07F (0)   | USER EVENT TRACE (USRN).                                |
| 12 | (C)  | ADDRESS | 4 | TTE07FTB     | CURRENT TCB ADDRESS OR 0. * PSATOLD.                    |
| 16 | (10) | SIGNED  | 2 | TTE07FRV     | RESERVED.                                               |
| 18 | (12) | SIGNED  | 2 | TTE07FHA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID.                |
| 20 | (14) | SIGNED  | 2 | TTE07FPA     | PASID. * CONTROL REGISTER 4.                            |
| 22 | (16) | SIGNED  | 2 | TTE07FSA     | SASID. * CONTROL REGISTER 3.                            |
| 24 | (18) | ADDRESS | 4 | TTE07FAD     | USER RETURN ADDRESS. * INPUT REGISTER 14.               |
| 28 | (1C) | SIGNED  | 4 | TTE07FCI (0) | CONTINUATION INFORMATION.                               |
| 28 | (1C) | SIGNED  | 2 | TTE07FPI     | PTRACE IDENTIFICATION COUNT. * PSATRV->TRVTT0B->TOBTRCI |
| 30 | (1E) | SIGNED  | 2 | TTE07FRB     | RELATIVE BYTE COUNT. * GENERATED.                       |
| 30 | (1E) | X'5'    | 0 | TTE07FMW     | "5" MAXIMUM NUMBER OF DATA WORDS PER USER ENTRY.        |

Comment

### WAIT - WAIT DISPATCH TTE

End of Comment

|    |      |         |   |              |                                          |
|----|------|---------|---|--------------|------------------------------------------|
| 12 | (C)  | SIGNED  | 4 | TTEF0F (0)   | WAIT DISPATCH (WAIT).                    |
| 12 | (C)  | ADDRESS | 4 | TTEF0FTB     | CURRENT TCB ADDRESS. * PSATOLD.          |
| 16 | (10) | SIGNED  | 2 | TTEF0FR1     | RESERVED.                                |
| 18 | (12) | SIGNED  | 2 | TTEF0FHA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID. |
| 20 | (14) | SIGNED  | 4 | TTEF0FED (0) | END OF WAIT TTE.                         |

Comment

### RCVY - RECOVERY EVENT TTE

End of Comment

|    |      |           |    |              |                                                 |
|----|------|-----------|----|--------------|-------------------------------------------------|
| 12 | (C)  | SIGNED    | 4  | TTE01D (0)   | RECOVERY EVENT (RCVY).                          |
| 12 | (C)  | ADDRESS   | 4  | TTE01DTB     | CURRENT TCB ADDRESS OR 0. * PSATOLD.            |
| 16 | (10) | SIGNED    | 2  | TTE01DSI     | RCVY SUBTYPE CODE.                              |
| 18 | (12) | SIGNED    | 2  | TTE01DHA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID.        |
| 20 | (14) | SIGNED    | 4  | TTE01DLH     | PSACLHS.                                        |
| 24 | (18) | SIGNED    | 4  | TTE01DLE     | PSACLHSE.                                       |
| 28 | (1C) | ADDRESS   | 4  | TTE01DPL     | PSALOCAL.                                       |
| 32 | (20) | CHARACTER | 32 | TTE01DU (0)  | INFORMATION UNIQUE TO RCVY SUBTYPE CODE.        |
| 32 | (20) | SIGNED    | 4  | TTE01DU1     | 1ST WORD OF INFORMATION UNIQUE TO RCVY SUBTYPE. |
| 36 | (24) | SIGNED    | 4  | TTE01DU2     | 2ND WORD OF INFORMATION UNIQUE TO RCVY SUBTYPE. |
| 40 | (28) | SIGNED    | 4  | TTE01DU3     | 3RD WORD OF INFORMATION UNIQUE TO RCVY SUBTYPE. |
| 44 | (2C) | SIGNED    | 4  | TTE01DU4     | 4TH WORD OF INFORMATION UNIQUE TO RCVY SUBTYPE. |
| 48 | (30) | SIGNED    | 4  | TTE01DU5     | 5TH WORD OF INFORMATION UNIQUE TO RCVY SUBTYPE. |
| 52 | (34) | SIGNED    | 4  | TTE01DU6     | 6TH WORD OF INFORMATION UNIQUE TO RCVY SUBTYPE. |
| 56 | (38) | SIGNED    | 4  | TTE01DU7     | 7TH WORD OF INFORMATION UNIQUE TO RCVY SUBTYPE. |
| 60 | (3C) | SIGNED    | 4  | TTE01DU8     | 8TH WORD OF INFORMATION UNIQUE TO RCVY SUBTYPE. |
| 64 | (40) | SIGNED    | 4  | TTE01DED (0) | END OF RCVY TTE.                                |

| Offsets                   |      | Type/Value | Len | Name (Dim)   | Description                                      |
|---------------------------|------|------------|-----|--------------|--------------------------------------------------|
| Dec                       | Hex  |            |     |              |                                                  |
| Comment                   |      |            |     |              |                                                  |
| TIME - TIMER SERVICES TTE |      |            |     |              |                                                  |
| End of Comment            |      |            |     |              |                                                  |
| 12                        | (C)  | SIGNED     | 4   | TTE01F (0)   | TIMER SERVICES ENTRY(TIME)                       |
| 12                        | (C)  | ADDRESS    | 4   | TTE01FTB     | CURRENT TCB ADDRESS OR 0. * PSATOLD.             |
| 16                        | (10) | SIGNED     | 2   | TTE01FSI     | TIME SUBTYPE CODE.                               |
| 18                        | (12) | SIGNED     | 2   | TTE01FHA     | HOME ADDRESS SPACE. * PSAAOLD->ASCBASID.         |
| 20                        | (14) | CHARACTER  | 44  | TTE01FU (0)  | INFORMATION UNIQUE TO TIME SUBTYPE CODE.         |
| 20                        | (14) | SIGNED     | 4   | TTE01FU1     | 1ST WORD OF INFORMATION UNIQUE TO TIME SUBTYPE.  |
| 24                        | (18) | SIGNED     | 4   | TTE01FU2     | 2ND WORD OF INFORMATION UNIQUE TO TIME SUBTYPE.  |
| 28                        | (1C) | SIGNED     | 4   | TTE01FU3     | 3RD WORD OF INFORMATION UNIQUE TO TIME SUBTYPE.  |
| 32                        | (20) | SIGNED     | 4   | TTE01FU4     | 4TH WORD OF INFORMATION UNIQUE TO TIME SUBTYPE.  |
| 36                        | (24) | SIGNED     | 4   | TTE01FU5     | 5TH WORD OF INFORMATION UNIQUE TO TIME SUBTYPE.  |
| 40                        | (28) | SIGNED     | 4   | TTE01FU6     | 6TH WORD OF INFORMATION UNIQUE TO TIME SUBTYPE.  |
| 44                        | (2C) | SIGNED     | 4   | TTE01FU7     | 7TH WORD OF INFORMATION UNIQUE TO TIME SUBTYPE.  |
| 48                        | (30) | SIGNED     | 4   | TTE01FU8     | 8TH WORD OF INFORMATION UNIQUE TO TIME SUBTYPE.  |
| 52                        | (34) | SIGNED     | 4   | TTE01FU9     | 9TH WORD OF INFORMATION UNIQUE TO TIME SUBTYPE.  |
| 56                        | (38) | SIGNED     | 4   | TTE01FUA     | 10TH WORD OF INFORMATION UNIQUE TO TIME SUBTYPE. |
| 60                        | (3C) | SIGNED     | 4   | TTE01FUB     | 11TH WORD OF INFORMATION UNIQUE TO TIME SUBTYPE. |
| 64                        | (40) | SIGNED     | 4   | TTE01FED (0) | END OF TIME TTE.                                 |

## TTE Cross Reference

| Name      | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|-----------|------------|-----------|----------|------------|-----------|
| TTE       | 0          |           | TTETCALL | 4C         | 303       |
| TTEASID   | 12         |           | TTETCB   | C          |           |
| TTEDEP    | 10         |           | TTETCLKC | 4C         | 403       |
| TTEEXCOM  | C          |           | TTETCSCH | 4C         | 301       |
| TTEF0F    | C          |           | TTETDSP  | 4C         | F         |
| TTEF0FED  | 14         |           | TTETEMS  | 4C         | 103       |
| TTEF0FHA  | 12         |           | TTETEX   | 0          | 70        |
| TTEF0FR1  | 10         |           | TTETEXT  | 4C         | 3         |
| TTEF0FTB  | C          |           | TTETHSCH | 4C         | 201       |
| TTEF05    | C          |           | TTETIO   | 4C         | B         |
| TTEF05ED  | 3C         |           | TTETMAX  | 4C         | 4C        |
| TTEF05GF  | 20         |           | TTETMCH  | 4C         | 13        |
| TTEF05G0  | 24         |           | TTETMSCH | 4C         | 101       |
| TTEF05G1  | 28         |           | TTETOD   | 2          |           |
| TTEF05HA  | 12         |           | TTETOTE  | 8          |           |
| TTEF05LE  | 38         |           | TTETPGM  | 4C         | 7         |
| TTEF05LH  | 30         |           | TTETRCVY | 4C         | 1D        |
| TTEF05MW  | 2C         |           | TTETRSCH | 4C         | 401       |
| TTEF05PA  | 14         |           | TTETRST  | 4C         | 15        |
| TTEF05PL  | 34         |           | TTETSIGA | 4C         | 501       |
| TTEF05PW  | 18         |           | TTETSPER | 4C         | 9         |
| TTEF05P1  | 18         |           | TTETSRB  | 4C         | 10F       |
| TTEF05P2  | 1C         |           | TTETSS   | 4C         | 203       |
| TTEF05SA  | 16         |           | TTETSSCH | 4C         | 1         |
| TTEF05SN  | 10         |           | TTETSSRB | 4C         | 20F       |
| TTEF05TB  | C          |           | TTETSSRV | 4C         | 205       |
| TTEMBZ1   | 1          |           | TTETSUSP | 4C         | 19        |
| TTEMEX    | 0          | F0        | TTETSVC  | 4C         | 5         |
| TTEMSID   | A          | F         | TTETSVC  | 4C         | F05       |
| TTEMTDSP  | 4C         | F         | TTETSVC  | 4C         | 105       |
| TTEMTTEXT | 4C         | 3         | TTETTME  | 4C         | 1F        |
| TTEMTSCH  | 4C         | 1         | TTETUSRA | 4C         | A7F       |
| TTEMTSVC  | 4C         | 5         | TTETUSRB | 4C         | B7F       |
| TTEREGS   | 0          | F         | TTETUSRC | 4C         | C7F       |
| TTETACR   | 4C         | 17        | TTETUSRD | 4C         | D7F       |
| TTETALTR  | 4C         | 1B        | TTETUSRE | 4C         | E7F       |

## TTE Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| TTETUSRF | 4C         | F7F       | TTE00FLH | 2C         |           |
| TTETUSR0 | 4C         | 7F        | TTE00FMW | 28         |           |
| TTETUSR1 | 4C         | 17F       | TTE00FPA | 14         |           |
| TTETUSR2 | 4C         | 27F       | TTE00FPL | 30         |           |
| TTETUSR3 | 4C         | 37F       | TTE00FPW | 18         |           |
| TTETUSR4 | 4C         | 47F       | TTE00FP1 | 18         |           |
| TTETUSR5 | 4C         | 57F       | TTE00FP2 | 1C         |           |
| TTETUSR6 | 4C         | 67F       | TTE00FR1 | 10         |           |
| TTETUSR7 | 4C         | 77F       | TTE00FSA | 16         |           |
| TTETUSR8 | 4C         | 87F       | TTE00FTB | C          |           |
| TTETUSR9 | 4C         | 97F       | TTE001   | C          |           |
| TTETWAIT | 4C         | F0F       | TTE001AD | 10         |           |
| TTETYPE  | 0          |           | TTE001CC | 14         |           |
| TTEUNQ   | C          |           | TTE001CU | 30         |           |
| TTEWRDA  | 34         |           | TTE001DI | 15         |           |
| TTEWRDB  | 38         |           | TTE001DN | 16         |           |
| TTEWRDC  | 3C         |           | TTE001ED | 34         |           |
| TTEWRDD  | 40         |           | TTE001HA | 12         |           |
| TTEWRDE  | 44         |           | TTE001IO | 28         |           |
| TTEWRDF  | 48         |           | TTE001O2 | 1C         |           |
| TTEWRD0  | C          |           | TTE001O3 | 20         |           |
| TTEWRD1  | 10         |           | TTE001O4 | 24         |           |
| TTEWRD2  | 14         |           | TTE001TB | C          |           |
| TTEWRD3  | 18         |           | TTE001TK | 2C         |           |
| TTEWRD4  | 1C         |           | TTE001T1 | 2C         |           |
| TTEWRD5  | 20         |           | TTE001T2 | 2D         |           |
| TTEWRD6  | 24         |           | TTE001T3 | 2E         |           |
| TTEWRD7  | 28         |           | TTE001UB | 18         |           |
| TTEWRD8  | 2C         |           | TTE003   | C          |           |
| TTEWRD9  | 30         |           | TTE003CD | 20         |           |
| TTEXP    | 0          |           | TTE003ED | 30         |           |
| TTEXPEND | 4C         |           | TTE003HA | 12         |           |
| TTEXPID  | B          |           | TTE003LE | 2C         |           |
| TTEXPSID | A          |           | TTE003LH | 24         |           |
| TTEXPTYP | A          |           | TTE003PA | 14         |           |
| TTE00B   | C          |           | TTE003PL | 28         |           |
| TTE00BCA | 24         |           | TTE003PW | 18         |           |
| TTE00BCT | 2A         |           | TTE003P1 | 18         |           |
| TTE00BDN | 10         |           | TTE003P2 | 1C         |           |
| TTE00BDS | 28         |           | TTE003R1 | 10         |           |
| TTE00BED | 44         |           | TTE003SA | 16         |           |
| TTE00BEW | 2C         |           | TTE003TB | C          |           |
| TTE00BFG | 20         |           | TTE005   | C          |           |
| TTE00BHA | 12         |           | TTE005ED | 28         |           |
| TTE00BLE | 3C         |           | TTE005GF | 1C         |           |
| TTE00BLH | 34         |           | TTE005G0 | 20         |           |
| TTE00BPA | 14         |           | TTE005G1 | 24         |           |
| TTE00BPL | 38         |           | TTE005HA | 12         |           |
| TTE00BPW | 18         |           | TTE005PW | 14         |           |
| TTE00BP1 | 18         |           | TTE005P1 | 14         |           |
| TTE00BP2 | 1C         |           | TTE005P2 | 18         |           |
| TTE00BSA | 16         |           | TTE005SN | 10         |           |
| TTE00BSC | 22         |           | TTE005TB | C          |           |
| TTE00BSS | 29         |           | TTE007   | C          |           |
| TTE00BTB | C          |           | TTE007CD | 2E         |           |
| TTE00BTK | 40         |           | TTE007ED | 34         |           |
| TTE00BT1 | 40         |           | TTE007HA | 12         |           |
| TTE00BT2 | 41         |           | TTE007IL | 2C         |           |
| TTE00BT3 | 42         |           | TTE007LE | 20         |           |
| TTE00BUB | 30         |           | TTE007LH | 18         |           |
| TTE00F   | C          |           | TTE007PA | 14         |           |
| TTE00FED | 34         |           | TTE007PL | 1C         |           |
| TTE00FG0 | 20         |           | TTE007PW | 24         |           |
| TTE00FG1 | 24         |           | TTE007P1 | 24         |           |
| TTE00FHA | 12         |           | TTE007P2 | 28         |           |



| Name     | Hex<br>Offset | Hex<br>Value | Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|----------|---------------|--------------|
| TTE007R1 | 10            |              | TTE01FU4 | 20            |              |
| TTE007SA | 16            |              | TTE01FU5 | 24            |              |
| TTE007TA | 30            |              | TTE01FU6 | 28            |              |
| TTE007TB | C             |              | TTE01FU7 | 2C            |              |
| TTE007ZD | 38            |              | TTE01FU8 | 30            |              |
| TTE007ZL | 34            |              | TTE01FU9 | 34            |              |
| TTE007ZT | 30            |              | TTE013   | C             |              |
| TTE009   | C             |              | TTE013ED | 38            |              |
| TTE009CD | 22            |              | TTE013HA | 12            |              |
| TTE009ED | 3C            |              | TTE013LE | 34            |              |
| TTE009HA | 12            |              | TTE013LH | 2C            |              |
| TTE009IA | 28            |              | TTE013MC | 20            |              |
| TTE009IB | 2C            |              | TTE013M1 | 20            |              |
| TTE009ID | 24            |              | TTE013M2 | 24            |              |
| TTE009IL | 20            |              | TTE013PA | 14            |              |
| TTE009LE | 34            |              | TTE013PL | 30            |              |
| TTE009LH | 30            |              | TTE013PS | 28            |              |
| TTE009PA | 14            |              | TTE013PW | 18            |              |
| TTE009PC | 10            |              | TTE013P1 | 18            |              |
| TTE009PL | 38            |              | TTE013P2 | 1C            |              |
| TTE009PW | 18            |              | TTE013R1 | 10            |              |
| TTE009P1 | 18            |              | TTE013SA | 16            |              |
| TTE009P2 | 1C            |              | TTE013TB | C             |              |
| TTE009SA | 16            |              | TTE015   | C             |              |
| TTE009TB | C             |              | TTE015ED | 40            |              |
| TTE01B   | C             |              | TTE015GF | 20            |              |
| TTE01BAC | 1C            |              | TTE015G0 | 24            |              |
| TTE01BBF | 26            |              | TTE015G1 | 28            |              |
| TTE01BCT | 24            |              | TTE015HA | 12            |              |
| TTE01BED | 28            |              | TTE015LE | 3C            |              |
| TTE01BFC | 18            |              | TTE015LH | 34            |              |
| TTE01BHA | 12            |              | TTE015MW | 30            |              |
| TTE01BPA | 14            |              | TTE015PA | 14            |              |
| TTE01BPT | 20            |              | TTE015PL | 38            |              |
| TTE01BR1 | 10            |              | TTE015PS | 2C            |              |
| TTE01BSA | 16            |              | TTE015PW | 18            |              |
| TTE01BTB | C             |              | TTE015P1 | 18            |              |
| TTE01D   | C             |              | TTE015P2 | 1C            |              |
| TTE01DED | 40            |              | TTE015R1 | 10            |              |
| TTE01DHA | 12            |              | TTE015SA | 16            |              |
| TTE01DLE | 18            |              | TTE015TB | C             |              |
| TTE01DLH | 14            |              | TTE017   | C             |              |
| TTE01DPL | 1C            |              | TTE017AD | 14            |              |
| TTE01DSI | 10            |              | TTE017ED | 34            |              |
| TTE01DTB | C             |              | TTE017FG | 18            |              |
| TTE01DU  | 20            |              | TTE017FR | 1C            |              |
| TTE01DU1 | 20            |              | TTE017HA | 12            |              |
| TTE01DU2 | 24            |              | TTE017LE | 30            |              |
| TTE01DU3 | 28            |              | TTE017LH | 28            |              |
| TTE01DU4 | 2C            |              | TTE017LP | 10            |              |
| TTE01DU5 | 30            |              | TTE017MW | 24            |              |
| TTE01DU6 | 34            |              | TTE017PL | 2C            |              |
| TTE01DU7 | 38            |              | TTE017PS | 20            |              |
| TTE01DU8 | 3C            |              | TTE017R1 | 19            |              |
| TTE01F   | C             |              | TTE017TB | C             |              |
| TTE01FED | 40            |              | TTE019   | C             |              |
| TTE01FHA | 12            |              | TTE019AD | 24            |              |
| TTE01FSI | 10            |              | TTE019ED | 34            |              |
| TTE01FTB | C             |              | TTE019HA | 12            |              |
| TTE01FU  | 14            |              | TTE019LE | 30            |              |
| TTE01FUA | 38            |              | TTE019LH | 28            |              |
| TTE01FUB | 3C            |              | TTE019PL | 2C            |              |
| TTE01FU1 | 14            |              | TTE019RB | 18            |              |
| TTE01FU2 | 18            |              | TTE019RT | 14            |              |
| TTE01FU3 | 1C            |              | TTE019R1 | 10            |              |

## TTE Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| TTE019SB | 1C         |           | TTE103SI | 24         |           |
| TTE019SI | 20         |           | TTE103SP | 28         |           |
| TTE019TB | C          |           | TTE103TB | C          |           |
| TTE07F   | C          |           | TTE105   | C          |           |
| TTE07FAD | 18         |           | TTE105ED | 28         |           |
| TTE07FCI | 1C         |           | TTE105GF | 1C         |           |
| TTE07FHA | 12         |           | TTE105G0 | 20         |           |
| TTE07FMW | 1E         | 5         | TTE105G1 | 24         |           |
| TTE07FPA | 14         |           | TTE105HA | 12         |           |
| TTE07FPI | 1C         |           | TTE105PW | 14         |           |
| TTE07FRB | 1E         |           | TTE105P1 | 14         |           |
| TTE07FRV | 10         |           | TTE105P2 | 18         |           |
| TTE07FSA | 16         |           | TTE105SN | 10         |           |
| TTE07FTB | C          |           | TTE105TB | C          |           |
| TTE10F   | C          |           | TTE20F   | C          |           |
| TTE10FAP | 1E         |           | TTE20FAP | 2A         |           |
| TTE10FED | 2C         |           | TTE20FED | 30         |           |
| TTE10FFN | 1C         |           | TTE20FFN | 28         |           |
| TTE10FG0 | 20         |           | TTE20FHA | 12         |           |
| TTE10FG1 | 24         |           | TTE20FLH | 11         |           |
| TTE10FHA | 12         |           | TTE20FPA | 14         |           |
| TTE10FLH | 11         |           | TTE20FPL | 2C         |           |
| TTE10FPT | 28         |           | TTE20FPT | 20         |           |
| TTE10FPW | 14         |           | TTE20FPW | 18         |           |
| TTE10FP1 | 14         |           | TTE20FP1 | 18         |           |
| TTE10FP2 | 18         |           | TTE20FP2 | 1C         |           |
| TTE10FSF | 10         |           | TTE20FR1 | 10         |           |
| TTE10FTB | C          |           | TTE20FSA | 16         |           |
| TTE101   | C          |           | TTE20FSP | 24         |           |
| TTE101AD | 10         |           | TTE20FTB | C          |           |
| TTE101CC | 14         |           | TTE201   | C          |           |
| TTE101DN | 16         |           | TTE201AD | 10         |           |
| TTE101ED | 2C         |           | TTE201AI | 20         |           |
| TTE101FB | 23         |           | TTE201CC | 14         |           |
| TTE101F1 | 1C         |           | TTE201DI | 15         |           |
| TTE101F2 | 1D         |           | TTE201DN | 16         |           |
| TTE101HA | 12         |           | TTE201ED | 2C         |           |
| TTE101IO | 24         |           | TTE201HA | 12         |           |
| TTE101LM | 1E         |           | TTE201IO | 24         |           |
| TTE101MI | 20         |           | TTE201IQ | 1C         |           |
| TTE101O2 | 1C         |           | TTE201TB | C          |           |
| TTE101O3 | 20         |           | TTE201TK | 28         |           |
| TTE101PM | 1F         |           | TTE201T1 | 28         |           |
| TTE101P2 | 22         |           | TTE201T2 | 29         |           |
| TTE101R1 | 15         |           | TTE201T3 | 2A         |           |
| TTE101TB | C          |           | TTE201UB | 18         |           |
| TTE101TK | 28         |           | TTE203   | C          |           |
| TTE101T1 | 28         |           | TTE203AD | 32         |           |
| TTE101T2 | 29         |           | TTE203AT | 34         |           |
| TTE101T3 | 2A         |           | TTE203BA | 24         |           |
| TTE101UB | 18         |           | TTE203CD | 20         |           |
| TTE103   | C          |           | TTE203CM | 28         |           |
| TTE103CD | 20         |           | TTE203ED | 44         |           |
| TTE103ED | 3C         |           | TTE203HA | 12         |           |
| TTE103HA | 12         |           | TTE203LE | 40         |           |
| TTE103LE | 38         |           | TTE203LH | 38         |           |
| TTE103LH | 30         |           | TTE203PA | 14         |           |
| TTE103PA | 14         |           | TTE203PL | 3C         |           |
| TTE103PL | 34         |           | TTE203PW | 18         |           |
| TTE103PW | 18         |           | TTE203P1 | 18         |           |
| TTE103P1 | 18         |           | TTE203P2 | 1C         |           |
| TTE103P2 | 1C         |           | TTE203RC | 2E         |           |
| TTE103R1 | 10         |           | TTE203R1 | 10         |           |
| TTE103SA | 16         |           | TTE203R2 | 30         |           |
| TTE103SE | 2C         |           | TTE203R3 | 2C         |           |

| Name     | Hex<br>Offset | Hex<br>Value | Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|----------|---------------|--------------|
| TTE203SA | 16            |              | TTE403PW | 18            |              |
| TTE203TB | C             |              | TTE403P1 | 18            |              |
| TTE205   | C             |              | TTE403P2 | 1C            |              |
| TTE205C1 | 14            |              | TTE403R1 | 10            |              |
| TTE205ED | 28            |              | TTE403R2 | 28            |              |
| TTE205HA | 12            |              | TTE403SA | 16            |              |
| TTE205SI | 10            |              | TTE403TA | 2A            |              |
| TTE205TB | C             |              | TTE403TB | C             |              |
| TTE205U1 | 18            |              | TTE403TT | 24            |              |
| TTE205U2 | 1C            |              | TTE501   | C             |              |
| TTE205U3 | 20            |              | TTE501CC | 14            |              |
| TTE205U4 | 24            |              | TTE501DN | 16            |              |
| TTE301   | C             |              | TTE501ED | 2C            |              |
| TTE301AD | 10            |              | TTE501FC | 15            |              |
| TTE301AI | 20            |              | TTE501HA | 12            |              |
| TTE301CC | 14            |              | TTE501M1 | 1C            |              |
| TTE301DI | 15            |              | TTE501M2 | 20            |              |
| TTE301DN | 16            |              | TTE501QI | 24            |              |
| TTE301ED | 2C            |              | TTE501SI | 18            |              |
| TTE301HA | 12            |              | TTE501TB | C             |              |
| TTE301IO | 24            |              | TTE501UB | 28            |              |
| TTE301IQ | 1C            |              |          |               |              |
| TTE301TB | C             |              |          |               |              |
| TTE301TK | 28            |              |          |               |              |
| TTE301T1 | 28            |              |          |               |              |
| TTE301T2 | 29            |              |          |               |              |
| TTE301T3 | 2A            |              |          |               |              |
| TTE301UB | 18            |              |          |               |              |
| TTE303   | C             |              |          |               |              |
| TTE303CD | 20            |              |          |               |              |
| TTE303ED | 34            |              |          |               |              |
| TTE303HA | 12            |              |          |               |              |
| TTE303LE | 30            |              |          |               |              |
| TTE303LH | 28            |              |          |               |              |
| TTE303PA | 14            |              |          |               |              |
| TTE303PB | 24            |              |          |               |              |
| TTE303PL | 2C            |              |          |               |              |
| TTE303PW | 18            |              |          |               |              |
| TTE303P1 | 18            |              |          |               |              |
| TTE303P2 | 1C            |              |          |               |              |
| TTE303R1 | 10            |              |          |               |              |
| TTE303SA | 16            |              |          |               |              |
| TTE303TB | C             |              |          |               |              |
| TTE401   | C             |              |          |               |              |
| TTE401AD | 10            |              |          |               |              |
| TTE401CC | 14            |              |          |               |              |
| TTE401DI | 15            |              |          |               |              |
| TTE401DN | 16            |              |          |               |              |
| TTE401ED | 24            |              |          |               |              |
| TTE401HA | 12            |              |          |               |              |
| TTE401IO | 1C            |              |          |               |              |
| TTE401TB | C             |              |          |               |              |
| TTE401TK | 20            |              |          |               |              |
| TTE401T1 | 20            |              |          |               |              |
| TTE401T2 | 21            |              |          |               |              |
| TTE401T3 | 22            |              |          |               |              |
| TTE401UB | 18            |              |          |               |              |
| TTE403   | C             |              |          |               |              |
| TTE403CD | 20            |              |          |               |              |
| TTE403ED | 38            |              |          |               |              |
| TTE403HA | 12            |              |          |               |              |
| TTE403LE | 34            |              |          |               |              |
| TTE403LH | 2C            |              |          |               |              |
| TTE403PA | 14            |              |          |               |              |
| TTE403PL | 30            |              |          |               |              |



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## TXFTFT Programming Interface information

Programming Interface information

TXFTFT

End of Programming Interface information

## TXTFT Heading Information

**Common Name:** C/I Text Format Mapping  
**Macro ID:** IEFTXTFT  
**DSECT Name:** TEXT  
**Owning Component:** MVS Converter/Interpreter (SC1B9)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: 0  
 Key: 1  
 Residency: ANY  
**Size:** Variable  
**Created by:** Converter  
**Pointed to by:** - Register 1, Word 2 on entry to JES2 Exit 6  
 - Register 1, Word 1 on entry to JES3 Exit IATUX03  
**Serialization:** None  
**Function:** This Macro is used to map the Converter Interpreter (C/I) text string, generated by the MVS Converter.

## TXTFT Map

| Offsets                                                   |     |            |     |              |                                                                              |
|-----------------------------------------------------------|-----|------------|-----|--------------|------------------------------------------------------------------------------|
| Dec                                                       | Hex | Type/Value | Len | Name (Dim)   | Description                                                                  |
| 0                                                         | (0) | STRUCTURE  | 0   | TEXT         |                                                                              |
| Comment                                                   |     |            |     |              |                                                                              |
| THE FOLLOWING FIELDS ARE COMMON TO ALL TEXT STRING TYPES. |     |            |     |              |                                                                              |
| End of Comment                                            |     |            |     |              |                                                                              |
| 0                                                         | (0) | CHARACTER  | 2   | STRLTH       | LENGTH OF TEXT STRING.                                                       |
| 2                                                         | (2) | CHARACTER  | 1   | STRINDCS     | STATEMENT TYPE AND MISCELLANEOUS INDICATORS                                  |
|                                                           |     | .... ..1   |     | JOBSTR       | "X'01" JOB STATEMENT TEXT STRING                                             |
|                                                           |     | .... ..1.  |     | EXECSTR      | "X'02" EXEC STATEMENT TEXT STRING                                            |
|                                                           |     | .... ..1.. |     | DDSTR        | "X'04" DD STATEMENT TEXT STRING                                              |
|                                                           |     | .... 1..   |     | PROCSTR      | "X'08" PROC STATEMENT TEXT STRING                                            |
|                                                           |     | ...1 ....  |     | LASTSTMT     | "X'10" LAST STMT FOR THIS STEP.                                              |
|                                                           |     | ..1. ....  |     | JDVBST       | "X'20" JDT-DEFINED VERB STRING                                               |
|                                                           |     | ..1. ....  |     | JDTJCL       | "X'40" JDT-DEFINED JCL APPEARS IN THIS STATEMENT                             |
|                                                           |     | 1... ....  |     | STRINDE      | "X'80" INDICATES THE EXTENDED STATEMENT BYTES ARE PRESENT IN THE TEXT PREFIX |
| 3                                                         | (3) | CHARACTER  | 2   | STRINDCE (0) | EXTENDED STATEMENT TYPE FIELDS                                               |
| 3                                                         | (3) | CHARACTER  | 1   | STRINDC1     | EXTENDED STATEMENT TYPE FIELD 1                                              |
|                                                           |     | 1... ....  |     | IFSTR        | "X'80" IF STATEMENT TEXT STRING                                              |
|                                                           |     | ..1. ....  |     | ELSESTR      | "X'40" ELSE STATEMENT TEXT STRING                                            |
|                                                           |     | ..1. ....  |     | ENDIFSTR     | "X'20" ENDIF STATEMENT TEXT STRING                                           |
| 4                                                         | (4) | CHARACTER  | 1   | STRINDC2     | EXTENDED STATEMENT TYPE FIELD 2                                              |
| Comment                                                   |     |            |     |              |                                                                              |
| FORMAT FOR JOB TEXT STRING                                |     |            |     |              |                                                                              |
| 2 1 1 1 1 1                                               |     |            |     |              |                                                                              |
| STRLTH STRINDCS STRJINDC STRJIND2 STRJLABD STRJKEY        |     |            |     |              |                                                                              |
| 2 1 1 1 1 1                                               |     |            |     |              |                                                                              |
| End of Comment                                            |     |            |     |              |                                                                              |
| 3                                                         | (3) | CHARACTER  | 1   | STRJINDC     | JOB INDICATORS                                                               |
|                                                           |     | .... ..1   |     | JTXACCTN     | "X'01" ACCT NO. REQUIRED.                                                    |
|                                                           |     | .... ..1.  |     | JTXPROGN     | "X'02" PROGRAMMER NAME REQUIRED.                                             |
|                                                           |     | .... ..1.. |     | JTXJOBFL     | "X'04" JOB HAS BEEN FAILED.                                                  |
|                                                           |     | .... 1...  |     | JTXSYSCK     | "X'08" JOB HAS SYSCHK DD.                                                    |

| Offsets |     |            |     |            |                                                  |
|---------|-----|------------|-----|------------|--------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                      |
|         |     | ...1 ....  |     | JTXCPSTF   | "X'10" C/R - FLUSH TO RESTART STEPNAME.          |
|         |     | ..1. ....  |     | JTXMHEDR   | "X'20" MESSAGE HEADER HAS BEEN WRITTEN.          |
|         |     | .1.. ....  |     | JTXREGDF   | "X'40" REGION VALUE IS A DEFAULT.                |
|         |     | 1... ....  |     | JTXJDJCL   | "X'80" JDT-DEFINED JCL APPEARS IN THIS JOB'S JCL |
| 4       | (4) | CHARACTER  | 1   | STRJIND2   | BYTE 2 OF JOB TEXT INDICATORS.                   |
|         |     | .... ...1  |     | JDJCLERR   | "X'01" JDT-DEFINED JCL ERROR IN THIS JOB'S JCL   |
|         |     | .... ..1.  |     | JBXA       | "X'02" USER SWA ABOVE INDICATOR                  |
|         |     | .... ..1.. |     | JTXJCLV    | "X'04" INDICATES JCL VERSION NUMBER CONTAINED IN |
|         |     |            |     |            | JOB TEXT, STATEMENT NUMBER IN TEXT AND JDT       |
|         |     |            |     |            | DEFINED KEYS IN TEXT                             |
| 5       | (5) | CHARACTER  | 1   | STRJLABD   | BYPASS LABEL PROCESSING DEFAULT.                 |

Comment

ENTIRE BYTE IS USED, AS IEFVDA OR'S BYTE DIRECTLY INTO JFCB.

End of Comment

|  |  |           |  |          |                                            |
|--|--|-----------|--|----------|--------------------------------------------|
|  |  | .... ...1 |  | JTXLABNL | "X'01" DEFAULT IS NO LABEL.                |
|  |  | ...1 .... |  | JTXLABLP | "X'10" DEFAULT IS BYPASS LABEL PROCESSING. |

Comment

END OF JOB TEXT STRING PREFIX

End of Comment

|   |     |           |   |             |                                                 |
|---|-----|-----------|---|-------------|-------------------------------------------------|
| 6 | (6) | CHARACTER | 1 | STRJKEY (0) | VERB KEY FOR JOB TEXT STRING                    |
| 6 | (6) | X'6'      | 0 | STRJPFXL    | "STRJKEY-TEXT" LENGTH OF JOB TEXT STRING PREFIX |

Comment

FORMAT FOR EXEC/PROC TEXT STRINGS

2 1 1 1

STRLTH STRINDCS STREINDC STREKEY

End of Comment

|   |     |            |   |          |                                       |
|---|-----|------------|---|----------|---------------------------------------|
| 3 | (3) | CHARACTER  | 1 | STREINDC | EXEC INDICATORS.                      |
|   |     | .... ...1  |   | ETXCPFLG | "X'01" CHECKPT/RESTART EXEC STMT.     |
|   |     | .... ..1.  |   | ETXSTPCT | "X'02" STEP HAS A STEPCAT DD.         |
|   |     | .... ..1.. |   | ETXSTPLB | "X'04" STEP HAS A STEPLIB DD.         |
|   |     | .... 1...  |   | ETXPROC  | "X'08" STATEMENT IS FROM A PROC.      |
|   |     | ...1 ....  |   | ETXNOODD | "X'10" STEP HAS NO DD STATEMENTS.     |
|   |     | ..1. ....  |   | ETXPRCV  | "X'20" STATEMENT INVOKES A PROCEDURE. |
|   |     | ..1. ....  |   | ETXCOVR  | "X'40" COND key - override processing |

Comment

END OF EXEC/PROC TEXT STRING PREFIX

End of Comment

|   |     |           |   |             |                                                    |
|---|-----|-----------|---|-------------|----------------------------------------------------|
| 4 | (4) | CHARACTER | 1 | STREKEY (0) | VERB KEY FOR EXEC/PROC TEXT STRING                 |
| 4 | (4) | X'4'      | 0 | STREPFXL    | "STREKEY-TEXT" LENGTH OF EXEC/PROC TEXT STRING PFX |

Comment

FORMAT FOR DD TEXT STRINGS

2 1 1 1

STRLTH STRINDCS STRDINDC STRDKEY

End of Comment

|   |     |           |   |          |                                                  |
|---|-----|-----------|---|----------|--------------------------------------------------|
| 3 | (3) | CHARACTER | 1 | STRDINDC | DD TEXT STRING INDICATORS.                       |
|   |     | .... ...1 |   | DTXDUMMY | "X'01" DUMMY OR DSN=NULLFILE SPECIFIED ON DD AND |
|   |     | .... ..1. |   | DTXDDNM  | NOT OVERRIDDEN                                   |
|   |     |           |   |          | "X'02" DDNAME= SPECIFIED ON STATEMENT.           |

# TXFTT Map

| Offsets                                          |     |            |     |             |                                                               |
|--------------------------------------------------|-----|------------|-----|-------------|---------------------------------------------------------------|
| Dec                                              | Hex | Type/Value | Len | Name (Dim)  | Description                                                   |
|                                                  |     | .... .1..  |     | DTXDSNLT    | "X'04" DSNAME SPECIFIED AS A LITERAL.                         |
|                                                  |     | .... 1...  |     | DTXDYNAM    | "X'08" DYNAM SPECIFIED ON STATEMENT.                          |
|                                                  |     | ...1 ....  |     | DTXSYSIN    | "X'10" TEXT IS FOR A SPOOLED DATA SET.                        |
|                                                  |     | ..1. ....  |     | DTXSOUT     | "X'20" TEXT IS FOR A SYSOUT DATASET                           |
|                                                  |     | .1.. ....  |     | DTXSUBSK    | "X'40" SUBSYS= SPECIFIED ON STMT                              |
|                                                  |     | 1... ....  |     | DTXPROC     | "X'80" STATEMENT IS FROM A PROC.                              |
| Comment                                          |     |            |     |             |                                                               |
| END OF DD TEXT STRING PREFIX                     |     |            |     |             |                                                               |
| End of Comment                                   |     |            |     |             |                                                               |
| 4                                                | (4) | CHARACTER  | 1   | STRDKEY (0) | VERB KEY FOR DD TEXT STRING                                   |
| 4                                                | (4) | X'4'       | 0   | STRDPFXL    | "STRDKEY-TEXT" LENGTH OF DD TEXT STRING PREFIX                |
| Comment                                          |     |            |     |             |                                                               |
| FORMAT FOR JDT-DEFINED VERB TEXT STRINGS         |     |            |     |             |                                                               |
| 2 1 1 1                                          |     |            |     |             |                                                               |
| STRLTH STRINDCS STRSINDC STRSKEY                 |     |            |     |             |                                                               |
| End of Comment                                   |     |            |     |             |                                                               |
| 3                                                | (3) | CHARACTER  | 1   | STRSINDC    | JDT-DEFINED TEXT STRING FLAGS                                 |
|                                                  |     | 1... ....  |     | JDXPROC     | "X'80" STATEMENT IS FROM A PROC.                              |
| Comment                                          |     |            |     |             |                                                               |
| END OF JDT-DEFINED TEXT STRING PREFIX            |     |            |     |             |                                                               |
| End of Comment                                   |     |            |     |             |                                                               |
| 4                                                | (4) | CHARACTER  | 1   | STRSKEY (0) | VERB KEY FOR JDT TEXT STRING                                  |
| 4                                                | (4) | X'4'       | 0   | STRSPFXL    | "STRSKEY-TEXT" LENGTH OF JDT-DEFINED VERB TEXT STRING PREFIX  |
| Comment                                          |     |            |     |             |                                                               |
| FORMAT FOR IF, THEN AND ELSE TEXT STRINGS PREFIX |     |            |     |             |                                                               |
| 2 1 2 1                                          |     |            |     |             |                                                               |
| STRLTH STRINDCS STRINDCE STRIKEY                 |     |            |     |             |                                                               |
| End of Comment                                   |     |            |     |             |                                                               |
| 5                                                | (5) | CHARACTER  | 1   | STRIKEY (0) | VERB KEY FOR IF, THEN AND ELSE                                |
| Comment                                          |     |            |     |             |                                                               |
| END OF IF, THEN AND ELSE TEXT STRING PREFIX      |     |            |     |             |                                                               |
| End of Comment                                   |     |            |     |             |                                                               |
| 5                                                | (5) | X'5'       | 0   | STRIPFXL    | "STRIKEY-TEXT" LENGTH OF IF, THEN AND ELSE TEXT STRING PREFIX |



**TXTFT Cross Reference**

| <b>Name</b> | <b>Hex Offset</b> | <b>Hex Value</b> |
|-------------|-------------------|------------------|
| DDSTR       | 2                 | 4                |
| DTXDDNM     | 3                 | 2                |
| DTXDSNLT    | 3                 | 4                |
| DTXDUMMY    | 3                 | 1                |
| DTXDYNAM    | 3                 | 8                |
| DTXPROC     | 3                 | 80               |
| DTXSUBSK    | 3                 | 40               |
| DTXSYOUT    | 3                 | 20               |
| DTXSYSIN    | 3                 | 10               |
| ELSESTR     | 3                 | 40               |
| ENDIFSTR    | 3                 | 20               |
| ETXCOVR     | 3                 | 40               |
| ETXCPFLG    | 3                 | 1                |
| ETXNODD     | 3                 | 10               |
| ETXPRCV     | 3                 | 20               |
| ETXPROC     | 3                 | 8                |
| ETXSTPCT    | 3                 | 2                |
| ETXSTPLB    | 3                 | 4                |
| EXECSTR     | 2                 | 2                |
| IFSTR       | 3                 | 80               |
| JBXA        | 4                 | 2                |
| JDJCLERR    | 4                 | 1                |
| JDTJCL      | 2                 | 40               |
| JDVSTR      | 2                 | 20               |
| JDXPROC     | 3                 | 80               |
| JOBSTR      | 2                 | 1                |
| JTXACCTN    | 3                 | 1                |
| JTXCPSTF    | 3                 | 10               |
| JTXJCLV     | 4                 | 4                |
| JTXJDJCL    | 3                 | 80               |
| JTXJOBFL    | 3                 | 4                |
| JTXLABLP    | 5                 | 10               |
| JTXLABNL    | 5                 | 1                |
| JTXMHEDR    | 3                 | 20               |
| JTXPROGN    | 3                 | 2                |
| JTXREGDF    | 3                 | 40               |
| JTXSYSCK    | 3                 | 8                |
| LASTSTMT    | 2                 | 10               |
| PROCSTR     | 2                 | 8                |
| STRDINDC    | 3                 |                  |
| STRDKEY     | 4                 |                  |
| STRDPFXL    | 4                 | 4                |
| STREINDC    | 3                 |                  |
| STREKEY     | 4                 |                  |
| STREPFXL    | 4                 | 4                |
| STRIKEY     | 5                 |                  |
| STRINDCE    | 3                 |                  |
| STRINDCS    | 2                 |                  |
| STRINDC1    | 3                 |                  |
| STRINDC2    | 4                 |                  |
| STRINDE     | 2                 | 80               |
| STRIPFXL    | 5                 | 5                |
| STRJINDC    | 3                 |                  |
| STRJIND2    | 4                 |                  |
| STRJKEY     | 6                 |                  |
| STRJLABD    | 5                 |                  |
| STRJPFXL    | 6                 | 6                |
| STRLTH      | 0                 |                  |
| STRSINDC    | 3                 |                  |
| STRSKEY     | 4                 |                  |
| STRSPFXL    | 4                 | 4                |
| TEXT        | 0                 |                  |



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## UCB Programming Interface information

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Programming Interface information

### UCB

**ONLY** the following fields are part of the programming interface information:

- UCBALOC
- UCBDVCLS
- UCBPUB
- UCBTBYT3
- UCBASID
- UCBID
- UCBRESV
- UCBTBYT4
- UCBAUTOS
- UCBMTPXP
- UCBREW
- UCBTYP
- UCBCHAN
- UCBNOCON
- UCBSTND
- UCBUNLD
- UCBCHGS
- UCBNRY
- UCBSYSR
- UCBUNTYP
- UCBCLEXT
- UCBONLI
- UCBTBYT1
- UCBVRDEV
- UCBDADI
- UCBPRES
- UCBTBYT2

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End of Programming Interface information

## Heading Information

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### UCB Heading Information

**Common Name:** UCB Mapping Macro  
**Macro ID:** IEFUCBOB  
**DSECT Name:** UCB  
**Owning Component:** IOS (SC1C3)  
**Eye-Catcher ID:** 'FF'X  
Offset: 3 BYTES FROM THE BEGINNING OF THE UCB COMMON SEGMENT  
Length: 1 BYTE

**Storage Attributes:** Subpool: 245 (SQA/ESQA). 255 (LSQA) for UCBs captured in private.  
Key: 0  
Residency: ABOVE or BELOW depending on the device definition. A particular UCB resides above 16Mb if the device type supports UCBs above 16Mb and the installation defines the UCB to reside above 16Mb. (Captured UCBs reside below 16Mb.) If a UCB resides above 16Mb, the following shows the parts of the UCB and indicates if they are captured or not when the UCB is captured. UCB Common Extension - Captured - UCB Prefix Stub - Captured - UCB Common Segment - Captured - UCB Device Dependent Segment - Captured - Device Dependent Extension - Not Captured - Device Class Extension - Captured unless UIM specified DCE as shared or DCE can reside in 31 bit storage independent of LOCANY

**Size:** Device Class Extension : 0 to 256 bytes  
UCB Common Extension : 32 bytes for all devices  
UCB Prefix Stub : 8 bytes for all devices  
UCB Common Segment : 24 bytes for all devices  
UCB Device Dependent Segment: 0 to 24 bytes for below 16Mb devices. No limit on the size for above 16Mb devices  
Device Dependent Extension : 0 to 40 bytes

**Created by:** IEAIPL03 IOSVCMUB

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pointed to by:</b> | <ul style="list-style-type: none"> <li>-The UCB common segment address can be obtained by invoking UCBLOOK or UCBSCAN.</li> <li>-The UCB common extension address can be obtained by invoking IOSCMXR, IOSCMXA, UCBLOOK UCBCXPTR or UCBSCAN UCBCXPTR.</li> <li>-The UCB address located from the UCB chain field points to the UCB common segment.</li> <li>-The common segment of the first STATIC/INSTALLATION STATIC, 3-digit, below 16Mb UCB is pointed to by the CVTUCBA field of the CVT. The UCBNXUCB field of the UCB common segment points to the next STATIC/INSTALLATION STATIC, 3-digit, below 16Mb UCB on the chain.</li> <li>-The Device Class Queue (DCQ) is pointed to by the CVTDCQA field in the CVT. The first STATIC/INSTALLATION STATIC, 3-digit, below 16Mb UCB within the device class is pointed to by the DCQUCBAD field.</li> <li>-DEBUCBAD field of the DEB</li> <li>-DDRFMUCB field of the DDRCOM data area</li> <li>-DDRTOUCB field of the DDRCOM data area</li> <li>-IOSUCB field of the IOSB data area</li> <li>-IOQUCB field of the IOQ data area</li> <li>-JESUNITS field of the JESCT data area</li> <li>-PCCACHUB field of the PCCA data area (channel-detected error UCB)</li> <li>-RQEUCB field of the RQE data area</li> <li>-SSDRSFRU field of the SSSDR data area</li> <li>-SSDRSTOU field of the SSSDR data area</li> <li>-TCCWUCB field of the TCCW data area</li> <li>-TCTUCBP field of the TCT data area</li> <li>-TIOEFSRT field of the TIOT data area</li> </ul> |
| <b>Serialization:</b> | UCB lock, compare and swap logic, ENQ on major SYSIEFSD minor Q4.<br>The method used is field dependant.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Function:</b>      | This mapping describes the control block required to define an I/O device to the system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

The UCB contains all the information necessary for the device to be used for performing I/O requests and records the status of a physical I/O device represented by a subchannel.

The UCB describes the characteristics of a device to the operating system. The UCB is used by the I/O supervisor in performing I/O requests, and the job scheduler during allocation of the device. There is a UCB for each device defined in the I/O configuration. The hardware configuration definition (HCD) stores the device definition data in an I/O definition file (IODF).

## UCB Map

| Offsets |        |            |     |            |                                             |
|---------|--------|------------|-----|------------|---------------------------------------------|
| Dec     | Hex    | Type/Value | Len | Name (Dim) | Description                                 |
| -512    | (-200) | STRUCTURE  | 0   | UCB        | , UCBPTR-512 (Where UCBPTR points to UCBOB) |
| 0       | (0)    | X'0'       | 0   | UCBBGN     | ***                                         |
| -512    | (-200) | SIGNED     | 4   | (126)      | Reserved                                    |
| -512    | (-200) | X'1F8'     | 0   | UCBPXST    | *** PREFIX stub                             |

# UCB Map

| Offsets                                                   |      |            |     |            |                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------|------|------------|-----|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec                                                       | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                                                                                                     |
| Comment                                                   |      |            |     |            |                                                                                                                                                                                                                                                                                                 |
| Prefix Stub                                               |      |            |     |            |                                                                                                                                                                                                                                                                                                 |
| UCB lock word and pointer to the active IOQ element       |      |            |     |            |                                                                                                                                                                                                                                                                                                 |
| End of Comment                                            |      |            |     |            |                                                                                                                                                                                                                                                                                                 |
| -8                                                        | (-8) | SIGNED     | 4   | UCBLOCK    | Device lock word                                                                                                                                                                                                                                                                                |
| -4                                                        | (-4) | ADDRESS    | 4   | UCBIOQ     | Address of last queuing element started, halted, or cleared for this device. This field contains a valid address only when UCBSTRT, UCBHALT, or UCBCLEAR are set on.                                                                                                                            |
| -4                                                        | (-4) | X'8'       | 0   | UCBCURPX   | **UCBPXST" Actual prefix stub data length                                                                                                                                                                                                                                                       |
| -4                                                        | (-4) | X'200'     | 0   | UCBPRFX    | **UCB" Total prefix area length for prefix addressability                                                                                                                                                                                                                                       |
| Comment                                                   |      |            |     |            |                                                                                                                                                                                                                                                                                                 |
| UCB common segment                                        |      |            |     |            |                                                                                                                                                                                                                                                                                                 |
| End of Comment                                            |      |            |     |            |                                                                                                                                                                                                                                                                                                 |
| 0                                                         | (0)  | SIGNED     | 4   | UCBOB (0)  |                                                                                                                                                                                                                                                                                                 |
| 0                                                         | (0)  | X'200'     | 0   | UCBCMSEG   | *** Start of common segment                                                                                                                                                                                                                                                                     |
| 0                                                         | (0)  | BITSTRING  | 1   | UCBJBNR    | Flag byte                                                                                                                                                                                                                                                                                       |
| Comment                                                   |      |            |     |            |                                                                                                                                                                                                                                                                                                 |
| Fields and flags used by allocation, access methods, etc. |      |            |     |            |                                                                                                                                                                                                                                                                                                 |
| End of Comment                                            |      |            |     |            |                                                                                                                                                                                                                                                                                                 |
|                                                           |      | 1... ....  |     | UCBVRDEV   | "X'80" UCB for VIO device                                                                                                                                                                                                                                                                       |
|                                                           |      | .1... .... |     | UCBJES3    | "X'40" All volume mounting and device management for this device is controlled by JES3                                                                                                                                                                                                          |
|                                                           |      | ..1. ....  |     | UCBDUC     | "X'20" Display device unit check detected during IPL                                                                                                                                                                                                                                            |
|                                                           |      | ...1 ....  |     | UCBJ3DV    | "X'10" Device is defined to JES3                                                                                                                                                                                                                                                                |
|                                                           |      | .... 1...  |     | UCBOLDSM   | "X'08" OLTEP communicating directly with the Mass Storage Control (MSC), not through the Mass Storage System Communicator (MSSC)                                                                                                                                                                |
|                                                           |      | .... .1..  |     | UCBMMSGP   | "X'04" Mount message pending. The device has been selected by device allocation, but no mount message has been issued.                                                                                                                                                                          |
|                                                           |      | .... ..1.  |     | UCBDCONS   | "X'02" Disabled console support controls this console.                                                                                                                                                                                                                                          |
|                                                           |      | .... ...1  |     | UCBMONT    | "X'01" Volume to be mounted is to be retained or contains a passed data set (Set by device allocation or data management)                                                                                                                                                                       |
| 1                                                         | (1)  | BITSTRING  | 1   | UCBFL5     | Flags                                                                                                                                                                                                                                                                                           |
|                                                           |      | 1... ....  |     | UCBDCC     | "X'80" Disconnect command chain device                                                                                                                                                                                                                                                          |
|                                                           |      | .1... .... |     | UCBAF      | "X'40" Attention for this console device is to be processed by the communications task                                                                                                                                                                                                          |
|                                                           |      | .1... .... |     | UCBAMV     | "X'40" Successful comparison checking of the access method catalog and the VTOC (VSAM direct access devices only)                                                                                                                                                                               |
|                                                           |      | ..1. ....  |     | UCBSMS     | "X'20" Data management flag                                                                                                                                                                                                                                                                     |
|                                                           |      | ...1 ....  |     | UCBVSDR    | "X'10" Device has variable length SDRs                                                                                                                                                                                                                                                          |
|                                                           |      | .... 1...  |     | UCBENVRD   | "X'08" Device returns environmental data                                                                                                                                                                                                                                                        |
|                                                           |      | .... .1..  |     | UCBNALOC   | "X'04" This offline device is being used by a system component. The device status must not change to online nor will it be allocated. The last path to the device must not be VARY'ed offline. The device is unavailable for usage by another system component which processes offline devices. |
|                                                           |      | .... ..1.  |     | UCBALTCU   | "X'02" Device has an alternate control unit address                                                                                                                                                                                                                                             |
|                                                           |      | .... ...1  |     | UCBCUIR    | "X'01" Indicates whether the device is offline due to CUIR                                                                                                                                                                                                                                      |
| Comment                                                   |      |            |     |            |                                                                                                                                                                                                                                                                                                 |
| UCB identification byte - contains hex FF                 |      |            |     |            |                                                                                                                                                                                                                                                                                                 |
| End of Comment                                            |      |            |     |            |                                                                                                                                                                                                                                                                                                 |
| 2                                                         | (2)  | BITSTRING  | 1   | UCBID      | UCB identification (FF)                                                                                                                                                                                                                                                                         |

| Offsets                                                           |     |            |     |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------|-----|------------|-----|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec                                                               | Hex | Type/Value | Len | Name (Dim)  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                   |     | 1111 1111  |     | UCBSTND     | "X'FF'" UCB identifier                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                   |     | 11.. 11..  |     | UCBIDCPY    | "X'CC'" UCB identifier for a UCB copy                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                   |     | ...1 ...1  |     | UCBGUCB     | "X'11'" UCB identifier for UCBs that are on the UCB chain, but have been changed from static to dynamic. These UCBs are invalid.                                                                                                                                                                                                                                                                                                                 |
|                                                                   |     | ...1 ..1.  |     | UCBST1      | "X'12'" UCB identifier for UCBs that are used exclusively by IOS                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                   |     | 1111 11.1  |     | UCBST3      | "X'FD'" UCB identifier for UCBs that are used exclusively by IOS                                                                                                                                                                                                                                                                                                                                                                                 |
| Comment                                                           |     |            |     |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Device status flags controlled by allocation, access methods, etc |     |            |     |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| End of Comment                                                    |     |            |     |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3                                                                 | (3) | BITSTRING  | 1   | UCBSTAT     | Device status                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                   |     | 1... ....  |     | UCBONLI     | "X'80'" Device is online                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                   |     | .1.. ....  |     | UCBCHGS     | "X'40'" Device status is to be changed from online to offline, and either allocation is enqueued on devices or the device is allocated. (Bit 0 is also on.)                                                                                                                                                                                                                                                                                      |
|                                                                   |     | ..1. ....  |     | UCBRESV     | "X'20'" The mount status of the volume on this device is reserved                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                   |     | ...1 ....  |     | UCBUNLD     | "X'10'" Unload operator command has been addressed to this device. The device is not yet unloaded.                                                                                                                                                                                                                                                                                                                                               |
|                                                                   |     | .... 1...  |     | UCBALOC     | "X'08'" Device is allocated. For auto-switchable devices, this bit indicates that the device WAS allocated by some system in the SYSPLEX at the time that Allocation last obtained the SYSPLEX allocation status. If field UCBSID is zero, the device is either allocated on another system or not allocated at all. To determine if the device is CURRENTLY allocated on the current system, check: UCBALOC equal ON AND UCBSID not equal zero. |
|                                                                   |     | .... .1..  |     | UCBPRES     | "X'04'" The mount status of the volume on this device is permanently resident                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                   |     | .... ..1.  |     | UCBSYSR     | "X'02'" System residence device or primary console or active console                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                   |     | .... ...1  |     | UCBDADI     | "X'01'" Standard tape labels have been verified for this tape volume or secondary console or console status changing                                                                                                                                                                                                                                                                                                                             |
| Comment                                                           |     |            |     |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Binary device number                                              |     |            |     |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| End of Comment                                                    |     |            |     |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 4                                                                 | (4) | SIGNED     | 2   | UCBCHAN     | Binary device number                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Comment                                                           |     |            |     |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| IOS startability flags                                            |     |            |     |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| End of Comment                                                    |     |            |     |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 6                                                                 | (6) | BITSTRING  | 2   | UCBSFLS (0) | Device status flags                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 6                                                                 | (6) | BITSTRING  | 1   | UCBFLA      | I/O supervisor flag byte A                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 6                                                                 | (6) | X'206'     | 0   | UCBFL1      | "UCBFLA" Alias                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                                   |     | 1... ....  |     | UCBDEFER    | "X'80'" This device is temporarily unusable. All I/O requests will be queued until UCBDEFER is reset.                                                                                                                                                                                                                                                                                                                                            |
|                                                                   |     | .1.. ....  |     | UCBNRY      | "X'40'" Device not ready                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 6                                                                 | (6) | X'40'      | 0   | UCBNOTRD    | "UCBNRY" Alias                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                                   |     | ..1. ....  |     | UCBPERM     | "X'20'" The subchannel for this device is unusable.                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                   |     | ...1 ....  |     | UCBPSNS     | "X'10'" Pending sense operation                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                   |     | .... 1...  |     | UCBSTRT     | "X'08'" IOS has issued a start subchannel and received condition code 0. If UCBHALT and UCBCLEAR are both off, then UCBIQ contains the address of the IOQ for this I/O request. The bit is turned off when the requestor is to be notified that the request is complete.                                                                                                                                                                         |

# UCB Map

| Offsets |     |                                     |     |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------|-----|-------------------------------------|-----|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value                          | Len | Name (Dim)                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|         |     | .... .1..                           |     | UCBHALT                     | "X'04" IOS has issued a halt subchannel and received condition code 0. If UCBCLEAR is off, then UCBIQ contains the address of the IOQ associated with the halt request. The bit is turned off when the halt interrupt occurs.                                                                                                                                                                                                                                                                                                                                                                      |
|         |     | .... .1.                            |     | UCBCLEAR                    | "X'02" IOS has issued a clear subchannel and received condition code 0. UCBIQ contains the address of the IOQ associated with the clear request. The bit is turned off when the clear interrupt occurs.                                                                                                                                                                                                                                                                                                                                                                                            |
| 7       | (7) | .... ...1<br>BITSTRING<br>1... .... | 1   | UCBBOX<br>UCBFLB<br>UCBINCP | "X'01" This device has been forced offline due to an error I/O supervisor flag byte B<br>"X'80" An intercept condition exists requiring ERP processing and will be given to the next normal I/O request to the device. Intercept conditions are a result of: 1) A secondary interruption status with unit check and/or unit exception set, 2) an unsolicited interruption status with unit check and attention or device end set and the attention table entry indicates intercept, or 3) an unsolicited interruption status with unit check and the device-dependent EOS exit requests intercept. |
|         |     | .1.. ....                           |     | UCBNOPTH                    | "X'40" Device has no operational paths. The bit is turned off when an unsolicited interrupt occurs or is simulated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|         |     | ..1. ....                           |     | UCBNOCON                    | "X'20" Device is not connected to a subchannel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|         |     | ...1 ....                           |     | UCBHILVL                    | "X'10" Non-normal UCBLEVEL value has been set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|         |     | .... 1..                            |     | UCBHDET                     | "X'08" HOT-I/O detected, device boxed or not recovered yet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|         |     | .... .1..                           |     | UCBIOSN                     | "X'04" I/O deferred waiting on synchronization I/O to complete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

Comment

EQU X'02' Reserved - set to zero  
 EQU X'01' Reserved - set to zero  
 Pointer to the next UCB on the UCB chain

End of Comment

|    |     |           |   |          |                                                                                 |
|----|-----|-----------|---|----------|---------------------------------------------------------------------------------|
| 8  | (8) | ADDRESS   | 4 | UCBNXUCB | Address of the next UCB on the UCB chain                                        |
| 12 | (C) | BITSTRING | 1 | UCBWGT   | Flags                                                                           |
|    |     | 1... .... |   | UCBIN    | "X'80" SYSIN                                                                    |
|    |     | .1.. .... |   | UCBOUT   | "X'40" SYSOUT                                                                   |
|    |     | ..1. .... |   | UCBPUB   | "X'20" Assumed that this device will be allocated for a public volume request   |
|    |     | ...1 .... |   | UCBREW   | "X'10" Rewind command has been addressed to this magnetic device by I/O support |
|    |     | .... 1..  |   | UCBMTXP  | "X'08" Parallel access volume                                                   |
|    |     | .... .1.. |   | UCBVORSN | "X'04" Vary command operator reason indicator                                   |
|    |     | .... .1.  |   | UCBVHRSN | "X'02" Vary command hierarchy reason indicator                                  |
|    |     | .... ...1 |   | UCBVLRSN | "X'01" Vary command library reason indicator                                    |
| 13 | (D) | CHARACTER | 3 | UCBNAME  | Device number (EBCDIC)                                                          |

Comment

UCBTYP field - 4 bytes of device unique data

End of Comment

|    |      |           |   |            |               |
|----|------|-----------|---|------------|---------------|
| 16 | (10) | BITSTRING | 4 | UCBTYP (0) | Device type   |
| 16 | (10) | BITSTRING | 1 | UCBTBYT1   | Model bits    |
|    |      | 1... .... |   | UCB1FEA0   | "X'80" Bit 0  |
|    |      | .1.. .... |   | UCB1FEA1   | "X'40" Bit 1  |
|    |      | ..1. .... |   | UCB1FEA2   | "X'20" Bit 2  |
|    |      | ...1 .... |   | UCB1FEA3   | "X'10" Bit 3  |
|    |      | .... 1..  |   | UCB1FEA4   | "X'08" Bit 4  |
|    |      | .... .1.. |   | UCB1FEA5   | "X'04" Bit 5  |
|    |      | .... .1.  |   | UCB1FEA6   | "X'02" Bit 6  |
|    |      | .... ...1 |   | UCB1FEA7   | "X'01" Bit 7  |
| 17 | (11) | BITSTRING | 1 | UCBTBYT2   | Option flags  |
|    |      | 1... .... |   | UCB2OPT0   | "X'80" Flag 0 |
|    |      | .1.. .... |   | UCB2OPT1   | "X'40" Flag 1 |



| Offsets |      |            |     |              |                                                                                                                                                                                               |
|---------|------|------------|-----|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                                                                                                   |
|         |      | ...1 ....  |     | UCB2OPT2     | "X'20" Flag 2                                                                                                                                                                                 |
|         |      | ...1 ....  |     | UCB2OPT3     | "X'10" Flag 3                                                                                                                                                                                 |
|         |      | .... 1...  |     | UCB2OPT4     | "X'08" Flag 4                                                                                                                                                                                 |
|         |      | .... .1..  |     | UCB2OPT5     | "X'04" Flag 5                                                                                                                                                                                 |
|         |      | .... .1.   |     | UCB2OPT6     | "X'02" Flag 6                                                                                                                                                                                 |
|         |      | .... .1.   |     | UCBVLPWR     | "X'02" Volume requires alternate power source device                                                                                                                                          |
|         |      | .... ...1  |     | UCB2OPT7     | "X'01" Flag 7                                                                                                                                                                                 |
|         |      | .... ...1  |     | UCBDVPWR     | "X'01" Device has alternate power source                                                                                                                                                      |
| 18      | (12) | BITSTRING  | 1   | UCBDVCLS (0) | Same as UCBBY3                                                                                                                                                                                |
| 18      | (12) | BITSTRING  | 1   | UCBTBYT3     | Class bits                                                                                                                                                                                    |
|         |      | 1... ....  |     | UCB3TAPE     | "X'80" Tape                                                                                                                                                                                   |
|         |      | .1.. ....  |     | UCB3COMM     | "X'40" Communications                                                                                                                                                                         |
|         |      | .1.. ...1  |     | UCB3CTC      | "X'41" Channel-to-channel adapter                                                                                                                                                             |
|         |      | .1.. ....  |     | UCB3DACC     | "X'20" Direct access                                                                                                                                                                          |
|         |      | ...1 ....  |     | UCB3DISP     | "X'10" Display                                                                                                                                                                                |
|         |      | .... 1...  |     | UCB3UREC     | "X'08" Unit record                                                                                                                                                                            |
|         |      | .... .1..  |     | UCB3CHAR     | "X'04" Character reader                                                                                                                                                                       |
|         |      | .... .1.   |     | UCBRSV10     | "X'02" Reserved                                                                                                                                                                               |
|         |      | .... ...1  |     | UCBRSV11     | "X'01" Reserved                                                                                                                                                                               |
| 19      | (13) | CHARACTER  | 1   | UCBUNTYP (0) | Same as UCBBY4                                                                                                                                                                                |
| 19      | (13) | CHARACTER  | 1   | UCBTBYT4     | Device code                                                                                                                                                                                   |
| 20      | (14) | ADDRESS    | 4   | UCBEXTPT (0) | Address of UCB common extension (Valid only for AMODE 24 modules and for UCBs which are defined below 16 Mb) IBM recommends using UCBLLOOK to obtain the address of the UCB common extension. |

Comment

I/O Supervisor flag byte

End of Comment

|    |      |           |   |         |                                        |
|----|------|-----------|---|---------|----------------------------------------|
| 20 | (14) | BITSTRING | 1 | UCBFLC  | I/O supervisor flag byte C             |
|    |      | 1... .... |   | UCBATTP | "X'80" Attention pending               |
|    |      | .1.. .... |   | UCBITFP | "X'40" Intercept condition pending     |
|    |      | .1.. .... |   | UCBUDE  | "X'20" Unsolicited device end received |

Comment

EQU X'10' Reserved - set to zero

End of Comment

|  |  |           |  |         |                                                |
|--|--|-----------|--|---------|------------------------------------------------|
|  |  | .... 1... |  | UCBIVRS | "X'08" Intervention required message issued    |
|  |  | .... .1.. |  | UCBIVRR | "X'04" Intervention required message is needed |

Comment

EQU X'02' Reserved - set to zero

End of Comment

|    |      |           |   |          |                                                                                                                                                                     |
|----|------|-----------|---|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      | .... ...1 |   | UCBDDRSW | "X'01" DDR switch pending on this device                                                                                                                            |
| 21 | (15) | ADDRESS   | 3 | UCBEXTP  | Address of UCB common extension (Valid only for UCBs which are defined below 16Mb) IBM recommends using UCBLLOOK to obtain the address of the UCB common extension. |
| 21 | (15) | X'200'    | 0 | SRTEJBNR | "UCBJBNR" Alias                                                                                                                                                     |
| 21 | (15) | X'1'      | 0 | SRTEMNT  | "UCBMONT" Alias                                                                                                                                                     |
| 21 | (15) | X'203'    | 0 | SRTESTAT | "UCBSTAT" Alias                                                                                                                                                     |
| 21 | (15) | X'80'     | 0 | SRTEONLI | "UCBONLI" Alias                                                                                                                                                     |
| 21 | (15) | X'40'     | 0 | SRTECHGS | "UCBCHGS" Alias                                                                                                                                                     |
| 21 | (15) | X'20'     | 0 | SRTERESV | "UCBRESV" Alias                                                                                                                                                     |
| 21 | (15) | X'10'     | 0 | SRTEUNLD | "UCBUNLD" Alias                                                                                                                                                     |
| 21 | (15) | X'8'      | 0 | SRTEALOC | "UCBALOC" Alias                                                                                                                                                     |
| 21 | (15) | X'4'      | 0 | SRTEPRES | "UCBPRES" Alias                                                                                                                                                     |
| 21 | (15) | X'2'      | 0 | SRTESYSR | "UCBSYSR" Alias                                                                                                                                                     |
| 21 | (15) | X'1'      | 0 | SRTEDADI | "UCBDADI" Alias                                                                                                                                                     |

## UCB Map

| Offsets                                             |      |            |     |            |                |
|-----------------------------------------------------|------|------------|-----|------------|----------------|
| Dec                                                 | Hex  | Type/Value | Len | Name (Dim) | Description    |
| 21                                                  | (15) | X'206'     | 0   | UCBFL2     | "UCBFL1" Alias |
| Comment                                             |      |            |     |            |                |
| UCB device-dependent segments start at label UCBDEV |      |            |     |            |                |
| End of Comment                                      |      |            |     |            |                |
| 21                                                  | (15) | X'218'     | 0   | UCBDEV     | ***            |

| Offsets |     |            |     |            |                                                                                                                                                                             |
|---------|-----|------------|-----|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                 |
| 0       | (0) | STRUCTURE  | 0   | UCBCMEXT   | ,                                                                                                                                                                           |
| 0       | (0) | SIGNED     | 1   | UCBETI     | A binary number used by the exit effector routine to complete the 8-byte name of an IBM-supplied error routine for this device                                              |
| 1       | (1) | SIGNED     | 1   | UCBSTI     | Increment which, when multiplied by 10, becomes an index to the statistics table (STATAB)                                                                                   |
| 2       | (2) | BITSTRING  | 1   | UCBFL6     | Device features byte                                                                                                                                                        |
|         |     | 1... ....  |     | UCBASUN    | "X'80" Assign/unassign commands supported                                                                                                                                   |
|         |     | .1.. ....  |     | UCBMDISP   | "X'40" Device has message display                                                                                                                                           |
|         |     | .1. ....   |     | UCBDBUF    | "X'20" Data is buffered prior to storing on permanent media                                                                                                                 |
|         |     | ...1 ....  |     | UCBIDS     | "X'10" Block ID supported on this device                                                                                                                                    |
|         |     | .... 1..   |     | UCBSELF    | "X'08" Indicates whether the device supports self description                                                                                                               |
|         |     | .... .1..  |     | UCBSMSMM   | "X'04" Indicates that the device is a SMS managed mountable device                                                                                                          |
|         |     | .... ..1.  |     | UCBLERP    | "X'02" Flag indicating that basic and intermediate ERP are supported for this device.                                                                                       |
|         |     | .... ...1  |     | UCBIOT     | "X'01" Flag indicating that the I/O timing functions are supported for this device                                                                                          |
| 3       | (3) | SIGNED     | 1   | UCBATI     | Index to the attention table (ANTAB) or optional job entry subsystem (JES) flag byte                                                                                        |
|         |     | 1... ....  |     | UCBRV04    | "X'80" Reserved                                                                                                                                                             |
|         |     | .1.. ....  |     | UCBRV05    | "X'40" Reserved                                                                                                                                                             |
|         |     | .1. ....   |     | UCBRV06    | "X'20" Reserved                                                                                                                                                             |
|         |     | ...1 ....  |     | UCBRV07    | "X'10" Reserved                                                                                                                                                             |
|         |     | .... 1..   |     | UCBRV08    | "X'08" Reserved                                                                                                                                                             |
|         |     | .... .1..  |     | UCBRV09    | "X'04" Reserved                                                                                                                                                             |
|         |     | .... ..1.  |     | UCBHALI    | "X'02" Optional job entry subsystem (JES) allocation indicator                                                                                                              |
|         |     | .... ...1  |     | UCBHPDV    | "X'01" Optional job entry subsystem (JES) pseudo-device                                                                                                                     |
| 4       | (4) | SIGNED     | 1   | UCBSNSCT   | Count of sense bytes presented by this device                                                                                                                               |
| 5       | (5) | BITSTRING  | 1   | UCBFLP1    | Flag byte                                                                                                                                                                   |
|         |     | 1... ....  |     | UCBNSRCH   | "X'80" The currently allocated volume was specifically requested by volume serial number. It is not available for assignment by open/EOV for a non-specific volume request. |
|         |     | .1.. ....  |     | UCBSHRUP   | "X'40" Shareable when in uniprocessor mode                                                                                                                                  |
|         |     | .1. ....   |     | UCBRERP    | "X'20" Resident error routine                                                                                                                                               |
|         |     | ...1 ....  |     | UCBINHIO   | "X'10" Inhibit halt subchannel from SVC 33                                                                                                                                  |
|         |     | .... 1..   |     | UCBSWAPF   | "X'08" With bit set, the device is able to be swapped                                                                                                                       |
|         |     | .... .1..  |     | UCBERLOG   | "X'04" Indicates presence of an error log in a device                                                                                                                       |
|         |     | .... ..1.  |     | UCBDYNPH   | "X'02" If 1, dynamic pathing availability is an optional feature for this device                                                                                            |
|         |     | .... ...1  |     | UCBRALOC   | "X'01" Allocations to this device are restricted                                                                                                                            |
| 6       | (6) | CHARACTER  | 1   | UCBSTLI    | Statistics table lookup index                                                                                                                                               |
| 7       | (7) | BITSTRING  | 1   | UCBFL7     | Miscellaneous usage flags                                                                                                                                                   |
|         |     | 1... ....  |     | UCBMASGN   | "X'80" Multi-system assign done                                                                                                                                             |
|         |     | .1.. ....  |     | UCBSSPND   | "X'40" Suspended channel program                                                                                                                                            |
|         |     | .1. ....   |     | UCBAUTOS   | "X'20" Device is auto-switchable                                                                                                                                            |
|         |     | ...1 ....  |     | UCBNOSEL   | "X'10" Allocation should attempt to select a different device                                                                                                               |
|         |     | .... 1..   |     | UCBEIDAW   | "X'08" 4K 8Byte IDAWs supported by device support code                                                                                                                      |
|         |     | .... .1..  |     | UCBASAFH   | "X'04" This device is assigned to a foreign host                                                                                                                            |

| Offsets |      |            |     |              |                                                                                                                                                                                                                                                                                          |
|---------|------|------------|-----|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                                                                                                                                                                                              |
|         |      | .... ..1.  |     | UCBPRUN      | "X'02" This tape device is in unallocation processing - vary offline should not take it offline at this time. Unallocation recovery also uses this flag to know when UCB cleanup might still need to be done.                                                                            |
| 8       | (8)  | ADDRESS    | 4   | UCBPONLI     | "X'01" For use by Allocation only                                                                                                                                                                                                                                                        |
| 12      | (C)  | BITSTRING  | 1   | UCBIEXT      | Pointer to IOS UCB extension                                                                                                                                                                                                                                                             |
| 13      | (D)  | SIGNED     | 1   | UCBCHPRM     | Channel path recovery mask                                                                                                                                                                                                                                                               |
| 14      | (E)  | SIGNED     | 2   | UCBSATI      | Attention table index saved by the scheduler                                                                                                                                                                                                                                             |
|         |      | 1... ....  |     | UCBASID      | ASID of the memory to which this device is allocated with the following exceptions: o For unallocated tape, the ASID of the last memory to which this device was allocated. o For auto-switchable devices, UCBSATID will be zero when the device is not allocated to the current system. |
| 16      | (10) | SIGNED     | 4   | UCBWTOWD (0) | WTO word                                                                                                                                                                                                                                                                                 |
| 16      | (10) | BITSTRING  | 1   |              | Reserved                                                                                                                                                                                                                                                                                 |
| 17      | (11) | CHARACTER  | 3   | UCBWTOID     | WTO message identifier                                                                                                                                                                                                                                                                   |
| 20      | (14) | ADDRESS    | 4   | UCBDDT (0)   | Address of device descriptor table (DDT) associated with UCB                                                                                                                                                                                                                             |
| 20      | (14) | SIGNED     | 2   | UCBDDTI      | Contains DDT name list index during IPL processing                                                                                                                                                                                                                                       |
| 22      | (16) | SIGNED     | 2   |              | Remainder of DDT address                                                                                                                                                                                                                                                                 |
| 24      | (18) | ADDRESS    | 4   | UCBCLEXT     | Pointer to device class extension. IBM recommends using IOSDCXR to obtain the address of the device class extension.                                                                                                                                                                     |
| 28      | (1C) | SIGNED     | 2   | UCBDCTOF     | Device connect time Overflow counter                                                                                                                                                                                                                                                     |
| 30      | (1E) | BITSTRING  | 1   | UCBCSFLG     | Miscellaneous flags which should be serialized by compare and swap.                                                                                                                                                                                                                      |
|         |      | 1... ....  |     | UCBNCC3      | "X'80" Indicates that IOS marked the device offline during NIP because at least one path was found not operational. Used to determine if an XCF CTC should be marked online by IECVIOPM                                                                                                  |

Comment

EQU X'40' Reserved  
 EQU X'20' Reserved  
 EQU X'10' Reserved  
 EQU X'08' Reserved  
 EQU X'04' Reserved  
 EQU X'02' Reserved  
 EQU X'01' Reserved

End of Comment

|    |      |           |   |  |          |
|----|------|-----------|---|--|----------|
| 31 | (1F) | BITSTRING | 1 |  | Reserved |
|----|------|-----------|---|--|----------|

## Offsets

| Dec | Hex   | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                                                   |
|-----|-------|------------|-----|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0   | (0)   | STRUCTURE  | 0   | UCB        |                                                                                                                                                                                                                                               |
| 536 | (218) | CHARACTER  | 4   | UCBVTOC    | Relative address of VTOC for this volume, in form TTR0                                                                                                                                                                                        |
| 540 | (21C) | CHARACTER  | 6   | UCBVOLI    | Volume serial number                                                                                                                                                                                                                          |
| 546 | (222) | BITSTRING  | 1   | UCBSTAB    | Volume status                                                                                                                                                                                                                                 |
|     |       | 1... ....  |     | UCBBSVL    | "X'80" Volume demountable by data management (direct access)                                                                                                                                                                                  |
|     |       | 1... ....  |     | UCBDVSHR   | "X'80" Device not shareable among several CPUs (3420 magnetic tape devices only)                                                                                                                                                              |
|     |       | .1.. ....  |     | UCBPGFL    | "X'40" UCB is open and is being used as a page file                                                                                                                                                                                           |
|     |       | ..1. ....  |     | UCBPRSRS   | "X'20" During volume attribute processing this bit is used both to denote UCBs that were marked permanently resident prior to getting control and to identify devices that were selected by the operator for mounting volumes (direct access) |
|     |       | ..1. ....  |     | UCBBALB    | "X'20" Additional volume label processing (tape)                                                                                                                                                                                              |
|     |       | ...1 ....  |     | UCBBPRV    | "X'10" Private - volume use status                                                                                                                                                                                                            |
|     |       | .... 1...  |     | UCBBPUB    | "X'08" Public - volume use status                                                                                                                                                                                                             |
|     |       | .... .1..  |     | UCBBSTR    | "X'04" Storage - volume use status (direct access) The volume mounted has an American National Standard Label (tape)                                                                                                                          |

# UCB Map

| Offsets |       |                        |     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------|-------|------------------------|-----|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value             | Len | Name (Dim)          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|         |       | .... ..1.              |     | UCBSHAR             | "X'02" Volume shareable among job steps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|         |       | .... ...1              |     | UCBBNUL             | "X'01" Control volume - A catalog data set is on this volume (direct access). If the multiple console support option is in the system, demount or mount messages have been issued and the message ID's are at offsets 40 through 45. Open will delete the messages and turn this bit off. (tape)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 547     | (223) | BITSTRING<br>1... .... | 1   | UCBDMCT<br>UCBMOUNT | Volume use byte<br>"X'80" If 0, a mount verification has been performed. If 1, a mount request has been issued. (direct access) For tape, the following meanings apply. Normal scheduler processing - If 0, no volume has been mounted. If 1, a volume has been mounted but no volume label processing has been performed. SL open routine - If 0, standard volume label and correct serial number have been verified. If 1, volume label is not standard format or serial number is not correct. (A mount message has been issued.) NSL open routine - If 0, non-standard volume label has been verified. If 1, volume label is not standard format. (Control passes to the processing program's non-standard label processing routine.) Volume label is standard format. (Control remains with the open routine. A mount message has been issued.) BLP open routine - If 0, volume label has not been processed. |
|         |       | .111 1111              |     | UCBDMC              | "X'7F" Number of DCB's open for this volume                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 547     | (223) | X'224'                 | 0   | UCBDATP             | *** End of common direct access/tape area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 548     | (224) | SIGNED                 | 1   | UCBSQC              | Number of reserve macro instructions issued                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 549     | (225) | BITSTRING<br>1... .... | 1   | UCBFL4<br>UCBMDSE1  | Direct access flag byte<br>"X'80" DSE1 is required during MSI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|         |       | .1.. ....              |     | UCBWDVAV            | "X'40" DAVV waiting for mount                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|         |       | ..1. ....              |     | UCBDPAVB            | "X'20" PAV-base capable device                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|         |       | ...1 ....              |     | UCBDPAVA            | "X'10" PAV-alis device                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|         |       | .... 1...              |     | UCBSDSE1            | "X'08" DSE1 is required during SIO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 550     | (226) | SIGNED                 | 2   | UCBUSER             | Number of current users                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 550     | (226) | X'226'                 | 0   | SRTEUSER            | "UCBUSER" Alias                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 552     | (228) | BITSTRING              | 1   | UCBOBS1X (0)        | Device dependent seg extension                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

Comment

The data area for the following fields exist for PAV-capable base devices (UCBDPAVB = '1'B) and for PAV alias devices (UCBDPAVA = '1'B).

The use of these fields are restricted and are not intended to be programming interfaces as the values can dynamically change.

To obtain PAV information use UCBINFO PAVINFO.

The PAVINFO returned data is mapped by IOSDPAVA.

End of Comment

|     |       |           |   |           |                                  |
|-----|-------|-----------|---|-----------|----------------------------------|
| 552 | (228) | ADDRESS   | 4 | UCBBASE   | Address of base exposure UCB     |
| 556 | (22C) | ADDRESS   | 4 | UCBNEXP   | Base - address of first exposure |
| 560 | (230) | BITSTRING | 8 | UCBPVAVBI | Reserved for IOS use             |
| 560 | (230) | X'21C'    | 0 | SRTEVOLI  | "UCBVOLI" Alias                  |
| 560 | (230) | X'222'    | 0 | SRTESTAB  | "UCBSTAB" Alias                  |
| 560 | (230) | X'80'     | 0 | SRTEBSVL  | "UCBBSVL" Alias                  |
| 560 | (230) | X'20'     | 0 | SRTEBALB  | "UCBBALB" Alias                  |
| 560 | (230) | X'10'     | 0 | SRTEBPRV  | "UCBBPRV" Alias                  |
| 560 | (230) | X'8'      | 0 | SRTEBPUB  | "UCBBPUB" Alias                  |
| 560 | (230) | X'4'      | 0 | SRTEBSTR  | "UCBBSTR" Alias                  |
| 560 | (230) | X'4'      | 0 | SRTEASCI  | "UCBBSTR" Alias                  |
| 560 | (230) | X'4'      | 0 | UCBASCI   | "SRTEASCI" Alias                 |
| 560 | (230) | X'4'      | 0 | SRTEBVQS  | "SRTEBSTR" Alias                 |
| 560 | (230) | X'1'      | 0 | SRTEBNUL  | "UCBBNUL" Alias                  |
| 560 | (230) | X'223'    | 0 | SRTEDMCT  | "UCBDMCT" Alias                  |

| Offsets                                             |     |            |     |            |                                                  |
|-----------------------------------------------------|-----|------------|-----|------------|--------------------------------------------------|
| Dec                                                 | Hex | Type/Value | Len | Name (Dim) | Description                                      |
| Comment                                             |     |            |     |            |                                                  |
| %UCBDA3;;                                           |     |            |     |            |                                                  |
| DASD UCBTYP flags and values (IECDUCBD)             |     |            |     |            |                                                  |
| These flags and values are valid only when UCBDVCLS |     |            |     |            |                                                  |
| (UCBTBYT3) is set to UCB3DACC.                      |     |            |     |            |                                                  |
| %GOTO UCBDA4;                                       |     |            |     |            |                                                  |
| UCBTBYT2 flags                                      |     |            |     |            |                                                  |
| End of Comment                                      |     |            |     |            |                                                  |
|                                                     |     | ..1. ....  |     | UCBRR      | "X'20" This device is shareable between two CPUs |
|                                                     |     | ...1 ....  |     | UCBRPS     | "X'10" Rotational Position Sensing (RPS) device  |
|                                                     |     | .... 1...  |     | UCBRVDEV   | "X'08" If 0, real device. If 1, virtual device   |

| Offsets                                 |       |            |     |            |                                                                                                   |
|-----------------------------------------|-------|------------|-----|------------|---------------------------------------------------------------------------------------------------|
| Dec                                     | Hex   | Type/Value | Len | Name (Dim) | Description                                                                                       |
| 0                                       | (0)   | STRUCTURE  | 0   | UCB        |                                                                                                   |
| 536                                     | (218) | SIGNED     | 2   | UCBFSCCT   | Data set sequence count                                                                           |
| 538                                     | (21A) | SIGNED     | 2   | UCBFSEQ    | Data set sequence number                                                                          |
| 540                                     | (21C) | CHARACTER  | 8   |            | UCBVOLI, UCBSTAB and UCBDMCT as in direct access segment                                          |
| 540                                     | (21C) | X'218'     | 0   | SRTEFSCCT  | "UCBFSCCT" Alias                                                                                  |
| 540                                     | (21C) | X'21A'     | 0   | SRTEFSEQ   | "UCBFSEQ" Alias                                                                                   |
| 548                                     | (224) | CHARACTER  | 6   | UCBFSEF    | Before open, message IDs. See UCBSTAB bit 7. After open, data set serial number                   |
| 554                                     | (22A) | BITSTRING  | 1   | UCBTFL2    | Flag byte                                                                                         |
|                                         |       | 1... ....  |     | UCBTXMS    | "X'80" Extended mode set supported                                                                |
|                                         |       | .1.. ....  |     | UCBTSPF    | "X'40" Perform Subsystem Function command supported                                               |
|                                         |       | ..1. ....  |     | UCBTVCMP   | "X'20" Volume contains compacted data                                                             |
|                                         |       | ...1 ....  |     | UCBTLPOS   | "X'10" ERP detected permanent error - tape position unknown                                       |
| 555                                     | (22B) | BITSTRING  | 1   | UCBTFL1    | Flag byte                                                                                         |
|                                         |       | 1... ....  |     | UCBNLTP    | "X'80" Tape volume does not contain labels                                                        |
|                                         |       | .1.. ....  |     | UCBNLTP    | "X'40" Tape contains non-standard labels                                                          |
|                                         |       | ..1. ....  |     | UCBDQDSP   | "X'20" Dequeue tape volume when demounted                                                         |
|                                         |       | ...1 1...  |     | UCBTFL1S   | "X'18" UCBTFL1 bits swapped by DDR                                                                |
|                                         |       | ...1 ....  |     | UCBRV005   | "X'10" Unused                                                                                     |
|                                         |       | .... 1...  |     | UCBCSL     | "X'08" ACL feature present swapped by DDR                                                         |
|                                         |       | .... .1..  |     | UCBCSLAC   | "X'04" ACL active                                                                                 |
|                                         |       | .... ..1.  |     | UCBLKAHP   | "X'02" Lookahead mount pending                                                                    |
|                                         |       | .... ...1  |     | UCBBLP     | "X'01" Bypass label processing                                                                    |
| 556                                     | (22C) | ADDRESS    | 4   | UCBXTN (0) | - ADDRESS OF THE MAGNETIC TAPE UCB EXTENSION                                                      |
| Comment                                 |       |            |     |            |                                                                                                   |
| UCBVOPT MAPPING ADDED WITH APAR OY25849 |       |            |     |            |                                                                                                   |
| End of Comment                          |       |            |     |            |                                                                                                   |
| 556                                     | (22C) | BITSTRING  | 1   | UCBVOPT    | - VOLUME STATISTICS OPTION BITS                                                                   |
|                                         |       | 1... ....  |     | UCBESV     | "X'80" - ERROR STATISTICS BY VOLUME (ESV) RECORDS KEPT                                            |
|                                         |       | .1.. ....  |     | UCBEVA     | "X'40" - ERROR VOLUME ANALYSIS (EVA) RECORDS KEPT                                                 |
|                                         |       | ..1. ....  |     | UCBESVC    | "X'20" - IF 0, ESV RECORDS SENT TO SYS1.MAN (X OR Y) DATA SET. IF 1, ESV RECORDS SENT TO CONSOLE. |
|                                         |       | ...1 ....  |     | UCBERPC    | "X'10" - AN ERROR RECOVERY PROCEDURE HAS CONTROL                                                  |
|                                         |       | .... 1...  |     | UCBESVE    | "X'08" - AN ESV RECORD HAS BEEN ISSUED FOR THIS VOLUME BECAUSE OF AN EOVS CONDITION               |
|                                         |       | .... .1..  |     | UCBPERR    | "X'04" - ERP DETECTED PERM ERROR. TAPE POSITION UNKNOWN.                                          |
|                                         |       | .... ..1.  |     | UCBRSV21   | "X'02',C'X" - RESERVED                                                                            |
|                                         |       | .... ...1  |     | UCBRSV22   | "X'01',C'X" - RESERVED                                                                            |

# UCB Map

| Offsets                                                                                                                                                                                              |       |            |     |            |                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|-----|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec                                                                                                                                                                                                  | Hex   | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                                                                                                                             |
| 557                                                                                                                                                                                                  | (22D) | ADDRESS    | 3   | UCBXTNB    | Address of the Segment Extension ..This pointer is valid if the ..UCB is genned below the line. ..Otherwise the pointer will be ..zero.                                                                                                                                                                                 |
| Comment                                                                                                                                                                                              |       |            |     |            |                                                                                                                                                                                                                                                                                                                         |
| <p>Magnetic Tape (device) Dependent Segment Extension<br/>           This extension mapping has been moved to render the TDS and the TDE contiguous. For details see INVOCATION in the prologue.</p> |       |            |     |            |                                                                                                                                                                                                                                                                                                                         |
| End of Comment                                                                                                                                                                                       |       |            |     |            |                                                                                                                                                                                                                                                                                                                         |
| 560                                                                                                                                                                                                  | (230) | SIGNED     | 2   | UCBMT (0)  | UCBXTNB -> UCBMT (ONLY if UCB ..is genned below the line. ..Otherwise the pointer is 0                                                                                                                                                                                                                                  |
| 560                                                                                                                                                                                                  | (230) | SIGNED     | 2   | UCBCTD     | Serial number in binary of tape drive upon which the volume was created                                                                                                                                                                                                                                                 |
| 562                                                                                                                                                                                                  | (232) | SIGNED     | 1   | UCBOBRID   | Outboard recorder ID                                                                                                                                                                                                                                                                                                    |
| 563                                                                                                                                                                                                  | (233) | SIGNED     | 1   | UCBMDRID   | Miscellaneous data record ID                                                                                                                                                                                                                                                                                            |
| 564                                                                                                                                                                                                  | (234) | SIGNED     | 1   | UCBTR      | The number (binary) of temporary read errors that have occurred                                                                                                                                                                                                                                                         |
| 564                                                                                                                                                                                                  | (234) | BITSTRING  | 1   | UCBMTFL1   | MSGDISP dismount request                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                      |       | 1... ....  |     | UCBMTDSM   | "X'80" DISP=D (dismount)                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                      |       | .1.. ....  |     | UCBMTKEP   | "X'40" DISP=K (keep)                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                      |       | ..1. ....  |     | UCBMTRET   | "X'20" DISP=R (retain)                                                                                                                                                                                                                                                                                                  |
| 565                                                                                                                                                                                                  | (235) | SIGNED     | 1   | UCBTW      | The number (binary) of temporary write errors that have occurred                                                                                                                                                                                                                                                        |
| 566                                                                                                                                                                                                  | (236) | SIGNED     | 2   | UCBSIO     | The number (binary) of start I/O operations that have occurred. A new 4-byte field has been created in the Tape Device Class Extension mapped by IECUCBCX. The UCBSIO field tends to overflow on higher capacity tape drives. The new field is UCBCX_SIO. Both fields are incremented by the Tape Trap exit (IECTTRAP). |
| 568                                                                                                                                                                                                  | (238) | SIGNED     | 1   | UCBPR      | The number (binary) of permanent read errors that have occurred                                                                                                                                                                                                                                                         |
| 569                                                                                                                                                                                                  | (239) | SIGNED     | 1   | UCBPW      | The number (binary) of permanent write errors that have occurred                                                                                                                                                                                                                                                        |
| 570                                                                                                                                                                                                  | (23A) | CHARACTER  | 6   | UCBSER (0) | Used for tape drives that have a message display - Usage during dismount processing only - serial of dismounted volume                                                                                                                                                                                                  |
| 570                                                                                                                                                                                                  | (23A) | SIGNED     | 1   | UCBNB      | The number (binary) of noise blocks that have been encountered                                                                                                                                                                                                                                                          |
| 571                                                                                                                                                                                                  | (23B) | CHARACTER  | 1   | UCBMS      | Mode set operation code for data blocks on a 3420 magnetic tape unit                                                                                                                                                                                                                                                    |
| 572                                                                                                                                                                                                  | (23C) | SIGNED     | 2   | UCBERG     | The number (binary) of erase gaps that have been encountered                                                                                                                                                                                                                                                            |
| 574                                                                                                                                                                                                  | (23E) | SIGNED     | 2   | UCBCLN     | The number (binary) of cleaner actions that have occurred                                                                                                                                                                                                                                                               |

Comment

```
%UCBMT3 ;
  Magnetic tape UCBTYP flags and values (IECDUCBT)
  These flags and values are valid only when UCBDVCLS
  (UCBTBYT3) is set to UCB3TAPE.
%GOTO UCBMT4;
  UCBTBYT1 flags
```

End of Comment

|      |      |          |                 |
|------|------|----------|-----------------|
| .... | .1.. | UCBD1600 | "X'04" 1600 BPI |
| .... | ..1. | UCBD6250 | "X'02" 6250 BPI |

Comment

UCBTBYT2 flags

End of Comment

|      |      |          |                                  |
|------|------|----------|----------------------------------|
| ..1. | .... | UCBDUDN1 | "X'20" Dual density 800/1600 BPI |
|------|------|----------|----------------------------------|

## Offsets

| Dec | Hex | Type/Value | Len | Name (Dim) | Description                       |
|-----|-----|------------|-----|------------|-----------------------------------|
|     |     | ...1 ....  |     | UCBDUDN2   | "X'10" Dual density 1600/6250 BPI |
|     |     | .... 1...  |     | UCBRWTAU   | "X'08" Read/write tape control    |
|     |     | .... .1..  |     | UCBCOMPA   | "X'04" - Compaction feature       |

Comment

UCBTBYT4 (UCBUNTYP) values

End of Comment

|  |  |           |  |         |                           |
|--|--|-----------|--|---------|---------------------------|
|  |  | .... ..11 |  | UCB3400 | "X'03" 3400 magnetic tape |
|  |  | 1... ..1. |  | UCB3423 | "X'82" 3423 magnetic tape |
|  |  | 1... .... |  | UCB3480 | "X'80" 3480 magnetic tape |
|  |  | 1... ...1 |  | UCB3490 | "X'81" 3490 magnetic tape |
|  |  | 1... ..11 |  | UCB3591 | "X'83" 3590 magnetic tape |

## Offsets

| Dec | Hex   | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                      |
|-----|-------|------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0   | (0)   | STRUCTURE  | 0   | UCB        |                                                                                                                                                                                  |
| 536 | (218) | ADDRESS    | 4   | UCBXTADR   | Address of UCS UCB extension (1403 or 3211) or address of optical character reader UCB extension (3886) or address of 3540 device UCB extension or address of 3800 UCB extension |

Comment

%UCBUR3;;

3851 or 3838 device dependent segment (IECDUCBU)

%GOTO UCBUR4;

End of Comment

|     |       |         |   |              |                                                   |
|-----|-------|---------|---|--------------|---------------------------------------------------|
| 536 | (218) | ADDRESS | 4 | UCBIOSBA     | Address of IOSB. Set by IOS for error conditions. |
| 540 | (21C) | ADDRESS | 4 | UCBRV066 (0) | Reserved - set to zero                            |
| 540 | (21C) | ADDRESS | 4 | UCBAPUB      | 3838 VPSS APUB address                            |

## Offsets

| Dec | Hex | Type/Value | Len | Name (Dim) | Description                            |
|-----|-----|------------|-----|------------|----------------------------------------|
| 0   | (0) | STRUCTURE  | 0   | UCBOCR     | , UCBXTADR -> UCBOCR                   |
| 0   | (0) | CHARACTER  | 4   | UCBFRID    | Current format record ID (FRID) loaded |
| 4   | (4) | BITSTRING  | 4   | UCBRDATA   | Command data                           |

## Offsets

| Dec | Hex | Type/Value | Len | Name (Dim) | Description                                                                                                                            |
|-----|-----|------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 0   | (0) | STRUCTURE  | 0   | UCB3540X   | , UCBXTADR -> UCB3540X                                                                                                                 |
| 0   | (0) | CHARACTER  | 6   | UCBVLSEY   | 3540 VOLID                                                                                                                             |
| 6   | (6) | BITSTRING  | 1   | UCBDKBYT   | Flag byte                                                                                                                              |
|     |     | 1... ....  |     | UCBDKAMX   | "X'80" IBM-supplied diskette reader, diskette writer or copy/restore utilities are using this 3540 device                              |
|     |     | .1.. ....  |     | UCBVLVER   | "X'40" Volume verification is required for certain intervention required conditions while 3540 diskette utilities are using the device |
|     |     | ..1. ....  |     | UCBRV067   | "X'20" Reserved - set to zero                                                                                                          |
|     |     | ...1 ....  |     | UCBRV068   | "X'10" Reserved - set to zero                                                                                                          |
|     |     | .... 1...  |     | UCBRV069   | "X'08" Reserved - set to zero                                                                                                          |
|     |     | .... .1..  |     | UCBRV070   | "X'04" Reserved - set to zero                                                                                                          |
|     |     | .... ..1.  |     | UCBRV071   | "X'02" Reserved - set to zero                                                                                                          |
|     |     | .... ...1  |     | UCBRV072   | "X'01" Reserved - set to zero                                                                                                          |
| 7   | (7) | CHARACTER  | 1   | UCBRV073   | Reserved - set to zero                                                                                                                 |

## UCB Map

| Offsets |      |            |     |              |                                                                                                    |
|---------|------|------------|-----|--------------|----------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                        |
| 0       | (0)  | STRUCTURE  | 0   | UCB3800X     | , UCBXTADR -> UCB3800X                                                                             |
| 0       | (0)  | BITSTRING  | 1   | UCBOPTNS     | Optional features installed on printer                                                             |
|         |      | 1111 ....  |     | UCBMDLBT     | "X'F0" Model                                                                                       |
|         |      | .... 1...  |     | UCBRV055     | "X'08" Reserved - set to zero                                                                      |
|         |      | .... .1..  |     | UCBRV056     | "X'04" Reserved - set to zero                                                                      |
|         |      | .... .1.   |     | UCBBRSTR     | "X'02" Burster/trimmer/stacker                                                                     |
|         |      | .... ...1  |     | UCBRV083     | "X'01" Reserved - set to zero                                                                      |
| 1       | (1)  | SIGNED     | 1   | UCBCGMNO     | Number of writeable character generation modules                                                   |
| 2       | (2)  | BITSTRING  | 1   | UCBGRAFS     | Graphic character flag byte                                                                        |
|         |      | 1... ....  |     | UCBRV046     | "X'80" Reserved - set to zero                                                                      |
|         |      | .1.. ....  |     | UCBRV047     | "X'40" Reserved - set to zero                                                                      |
|         |      | ..1. ....  |     | UCBRV048     | "X'20" Reserved - set to zero                                                                      |
|         |      | ...1 ....  |     | UCBRV049     | "X'10" Reserved - set to zero                                                                      |
|         |      | .... 1...  |     | UCBGRAFO     | "X'08" WCGM 0 has been modified by a graphic character modification                                |
|         |      | .... .1..  |     | UCBGRAF1     | "X'04" WCGM 1 has been modified by a graphic character modification                                |
|         |      | .... ..1.  |     | UCBGRAF2     | "X'02" WCGM 2 has been modified by a graphic character modification                                |
|         |      | .... ...1  |     | UCBGRAF3     | "X'01" WCGM 3 has been modified by a graphic character modification                                |
| 3       | (3)  | BITSTRING  | 1   | UCBACTIV     | Active features                                                                                    |
|         |      | 1... ....  |     | UCBRV057     | "X'80" Reserved - set to zero                                                                      |
|         |      | .1.. ....  |     | UCBRV058     | "X'40" Reserved - set to zero                                                                      |
|         |      | ..1. ....  |     | UCBRV059     | "X'20" Reserved - set to zero                                                                      |
|         |      | ...1 ....  |     | UCBRV060     | "X'10" Reserved - set to zero                                                                      |
|         |      | .... 1...  |     | UCBRV061     | "X'08" Reserved - set to zero                                                                      |
|         |      | .... .1..  |     | UCBRV062     | "X'04" Reserved - set to zero                                                                      |
|         |      | .... ..1.  |     | UCBRV063     | "X'02" Reserved - set to zero                                                                      |
|         |      | .... ...1  |     | UCBBRSTA     | "X'01" Reserved - set to zero                                                                      |
| 4       | (4)  | CHARACTER  | 4   | UCBCGMID     | Four one byte ID's for character modules loaded in writeable character generation modules (WCGM'S) |
| 8       | (8)  | CHARACTER  | 4   | UCBCHAR1     | Name of first translate table                                                                      |
| 12      | (C)  | CHARACTER  | 4   | UCBCHAR2     | Name of second translate table                                                                     |
| 16      | (10) | CHARACTER  | 4   | UCBCHAR3     | Name of third translate table                                                                      |
| 20      | (14) | CHARACTER  | 4   | UCBCHAR4     | Name of fourth translate table                                                                     |
| 24      | (18) | CHARACTER  | 4   | UCBFCBNM     | Forms control buffer (FCB) image name                                                              |
| 28      | (1C) | CHARACTER  | 4   | UCBIMAGE     | Forms overlay image identification                                                                 |
| 32      | (20) | SIGNED     | 2   | UCBLDATA     | Lost data page count                                                                               |
| 34      | (22) | SIGNED     | 2   | UCBPGID      | ID of the last fused page for system restart or page at the transfer station for cancel key        |
| 36      | (24) | ADDRESS    | 4   | UCBMDRBF (0) | Miscellaneous data recording (MDR) buffer address                                                  |
| 36      | (24) | SIGNED     | 1   | UCBRV075     | Reserved - set to zero                                                                             |
| 37      | (25) | ADDRESS    | 3   | UCBMDRBA     | MDR buffer address                                                                                 |

| Offsets |     |            |     |            |                                                      |
|---------|-----|------------|-----|------------|------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                          |
| 0       | (0) | STRUCTURE  | 0   | UCBUCS     | , UCBXTADR -> UCBUCS                                 |
| 0       | (0) | CHARACTER  | 4   | UCBUCSID   | UCS image identification in buffer                   |
| 4       | (4) | BITSTRING  | 1   | UCBUCSOP   | Format of UCS image in buffer (O for option)         |
|         |     | 1... ....  |     | UCBUCSO1   | "X'80" UCS image is a default image                  |
|         |     | .1.. ....  |     | UCBUCSO2   | "X'40" UCS image is in fold mode                     |
|         |     | ..1. ....  |     | UCBRSV39   | "X'20" Reserved - set to zero                        |
|         |     | ...1 ....  |     | UCBRSV40   | "X'10" Reserved - set to zero                        |
|         |     | .... 1...  |     | UCBRSV41   | "X'08" Reserved - set to zero                        |
|         |     | .... .1..  |     | UCBRSV42   | "X'04" Reserved - set to zero                        |
|         |     | .... .1.   |     | UCBRSV43   | "X'02" Reserved - set to zero                        |
|         |     | .... ...1  |     | UCBUCSPE   | "X'01" UCS image has parity error (3211)             |
| 5       | (5) | BITSTRING  | 1   | UCBFCBOP   | Reserved (1403) or FCB options (3211) (O for option) |
|         |     | 1... ....  |     | UCBFCBO1   | "X'80" FCB image is a default image                  |
|         |     | .1.. ....  |     | UCBRSV44   | "X'40" Reserved - set to zero                        |
|         |     | ..1. ....  |     | UCBRSV45   | "X'20" Reserved - set to zero                        |



| Offsets |      |            |     |            |                                                                                                                                                                                                                                                                                                                      |
|---------|------|------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                                                                                                                          |
|         |      | ...1 ....  |     | UCBRV46    | "X'10" Reserved - set to zero                                                                                                                                                                                                                                                                                        |
|         |      | .... 11..  |     | UCBFCBPS   | "X'0C" Printer speed setting for a variable speed printer 01 - low speed 10 - medium speed 11 - high speed                                                                                                                                                                                                           |
|         |      | .... ..1.  |     | UCBRV49    | "X'02" Reserved - set to zero                                                                                                                                                                                                                                                                                        |
|         |      | .... ...1  |     | UCBFCBPE   | "X'01" FCB image has parity error                                                                                                                                                                                                                                                                                    |
| 6       | (6)  | BITSTRING  | 1   | UCBRV51    | Reserved - set to zero                                                                                                                                                                                                                                                                                               |
| 7       | (7)  | SIGNED     | 1   | UCBERCNT   | Contains a count of the errors that have occurred. The count, which may wrap around, is written in standard OBR records (one per error) and in new device dependent OBR records (0 to 3 per error) and serve to relate to each other the standard and device dependent OBR records that pertain to each error (3211) |
| 8       | (8)  | CHARACTER  | 4   | UCBFCBID   | The FCB image identification                                                                                                                                                                                                                                                                                         |
| 12      | (C)  | ADDRESS    | 4   | UCBERADR   | The address of the ERP logout area                                                                                                                                                                                                                                                                                   |
| 16      | (10) | CHARACTER  | 2   | UCBIPGID   | Impact printer page ID for last good page after lost data condition                                                                                                                                                                                                                                                  |
| 18      | (12) | SIGNED     | 2   | UCBPDCTO   | Offset to printer device characteristics table (PDCT) from UCBUCS                                                                                                                                                                                                                                                    |

| Offsets |     |            |     |            |                                                                                                                                                                                            |
|---------|-----|------------|-----|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                |
| 0       | (0) | STRUCTURE  | 0   | UCBPDCTA   | Printer device characteristics table (PDCT) area. (The PDCT resides in the UCS extension. However, its address must be computed by adding the value in UCBPDCTO to the address of UCBUCS.) |
| 0       | (0) | CHARACTER  | 16  | UCBPDCT    | Printer device characteristics table (PDCT), mapped by mapping macro IGGPDC                                                                                                                |

Comment

```
%UCBUR13;
  Unit Record UCBTYP flags and values (IECDUCBU)
  These flags and values are valid only when UCBDVCLS
  (UCBTBYT3) is set to UCB3UREC.
%GOTO UCBUR14;
  UCBUNTYP (UCBTBYT4) Flag Byte
```

End of Comment

|  |  |           |  |         |                                          |
|--|--|-----------|--|---------|------------------------------------------|
|  |  | .... 1111 |  | UCBAFP1 | "X'0F" Printer support                   |
|  |  | .1.. ..1. |  | UCBDSM  | "X'42" Mass Storage Control (MSC) (3851) |
|  |  | .... 1..1 |  | UCB3211 | "X'09" 3211 device                       |
|  |  | ...1 ...1 |  | UCB3263 | "X'11" 3263 device                       |
|  |  | .... 111. |  | UCB3800 | "X'0E" 3800 device                       |
|  |  | .1.. 11.. |  | UCB3838 | "X'4C" 3838 array processor              |
|  |  | ...1 1..1 |  | UCB3895 | "X'19" 3895 device                       |
|  |  | ...1 ...1 |  | UCB4245 | "X'11" 4245 device                       |
|  |  | ...1 ..11 |  | UCB4248 | "X'13" 4248 device                       |

| Offsets |       |            |     |            |                                                                           |
|---------|-------|------------|-----|------------|---------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim) | Description                                                               |
| 0       | (0)   | STRUCTURE  | 0   | UCB        |                                                                           |
| 536     | (218) | SIGNED     | 2   | UCBSTART   | Last start address                                                        |
| 538     | (21A) | SIGNED     | 1   | UCBOPEN    | Number of DCB's that are currently open for this device                   |
| 539     | (21B) | CHARACTER  | 1   | UCBGCB     | Graphic control byte used for attention handling                          |
| 540     | (21C) | ADDRESS    | 4   | UCBTB      | Address of Task Entry (TE) block                                          |
| 544     | (220) | BITSTRING  | 4   | UCBSNS     | Sense information                                                         |
| 548     | (224) | ADDRESS    | 4   | UCBBTA (0) | Address of buffer table                                                   |
| 548     | (224) | SIGNED     | 1   | UCBDI      | Device or devices on a control unit to which buffer sections are assigned |
| 549     | (225) | ADDRESS    | 3   | UCBBTB     | Address of buffer table                                                   |

# UCB Map

| Offsets                                                       |       |            |     |              |                                                                                                                                                                                                                  |
|---------------------------------------------------------------|-------|------------|-----|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec                                                           | Hex   | Type/Value | Len | Name (Dim)   | Description                                                                                                                                                                                                      |
|                                                               |       |            |     |              | Comment                                                                                                                                                                                                          |
| %UCBGR3;<br>3270 Graphics device dependent segment (IECDUCBG) |       |            |     |              |                                                                                                                                                                                                                  |
| %GOTO UCBGR4;                                                 |       |            |     |              |                                                                                                                                                                                                                  |
|                                                               |       |            |     |              | End of Comment                                                                                                                                                                                                   |
| 536                                                           | (218) | BITSTRING  | 2   | UCBAOF (0)   | Additional optional features. An extension of the optional features byte of the UCBTYP field.                                                                                                                    |
| 536                                                           | (218) | BITSTRING  | 1   | UCBAOF1      | First byte of UCBAOF                                                                                                                                                                                             |
|                                                               |       | 1... ..    |     | UCBOFMCR     | "X'80" Magnetic card reader adapter (for 3277 only)                                                                                                                                                              |
|                                                               |       | .1.. ..    |     | UCBOFSP      | "X'40" Selector pen - for 3277 only                                                                                                                                                                              |
|                                                               |       | ..1. ..    |     | UCBOFNL      | "X'20" Numeric lock - for 3277 only                                                                                                                                                                              |
|                                                               |       | ...1 ..    |     | UCBOFPTR     | "X'10" Prepare to read feature                                                                                                                                                                                   |
|                                                               |       | .... 1..   |     | UCBRV65      | "X'08" Reserved - set to zero                                                                                                                                                                                    |
|                                                               |       | .... .1..  |     | UCBRV66      | "X'04" Reserved - set to zero                                                                                                                                                                                    |
|                                                               |       | .... .1..  |     | UCBRV67      | "X'02" Reserved - set to zero                                                                                                                                                                                    |
|                                                               |       | .... ...1  |     | UCBRV68      | "X'01" Reserved - set to zero                                                                                                                                                                                    |
| 537                                                           | (219) | BITSTRING  | 1   | UCBAOF2      | Second byte of UCBAOF                                                                                                                                                                                            |
|                                                               |       | 1... ..    |     | UCBRV69      | "X'80" Reserved - set to zero                                                                                                                                                                                    |
|                                                               |       | .1.. ..    |     | UCBRV70      | "X'40" Reserved - set to zero                                                                                                                                                                                    |
|                                                               |       | ..1. ..    |     | UCBRV71      | "X'20" Reserved - set to zero                                                                                                                                                                                    |
|                                                               |       | ...1 ..    |     | UCBRV72      | "X'10" Reserved - set to zero                                                                                                                                                                                    |
|                                                               |       | .... 1..   |     | UCBRV73      | "X'08" Reserved - set to zero                                                                                                                                                                                    |
|                                                               |       | .... .1..  |     | UCBRV74      | "X'04" Reserved - set to zero                                                                                                                                                                                    |
|                                                               |       | .... .1..  |     | UCBRV75      | "X'02" Reserved - set to zero                                                                                                                                                                                    |
|                                                               |       | .... ...1  |     | UCBRV76      | "X'01" Reserved - set to zero                                                                                                                                                                                    |
| 538                                                           | (21A) | SIGNED     | 1   | UCBATNCT     | Attention count. The number of attentions not serviced in the line group. Present only if the device index field is 1. Otherwise, this field is reserved.                                                        |
| 539                                                           | (21B) | BITSTRING  | 1   | UCBGCB       | UCBGCB - control byte. Used for attention handling flags                                                                                                                                                         |
|                                                               |       | 1... ..    |     | UCBOLTEP     | "X'80" OLTEP in control of the device                                                                                                                                                                            |
|                                                               |       | .1.. ..    |     | UCBRV77      | "X'40" Reserved - set to zero                                                                                                                                                                                    |
|                                                               |       | ..1. ..    |     | UCBRV78      | "X'20" Reserved - set to zero                                                                                                                                                                                    |
|                                                               |       | ...1 ..    |     | UCBRV79      | "X'10" Reserved - set to zero                                                                                                                                                                                    |
|                                                               |       | .... 1..   |     | UCBRTIAC     | "X'08" Read TI active                                                                                                                                                                                            |
|                                                               |       | .... .1..  |     | UCBRIPND     | "X'04" Read initial pending                                                                                                                                                                                      |
|                                                               |       | .... .1..  |     | UCBSKPFPG    | "X'02" Skip flag                                                                                                                                                                                                 |
|                                                               |       | .... ...1  |     | UCBATRCDD    | "X'01" Attention received from the device                                                                                                                                                                        |
| 540                                                           | (21C) | ADDRESS    | 4   | UCBIRB (0)   | Address of the IRB used for scheduling the second level attention routine                                                                                                                                        |
| 540                                                           | (21C) | BITSTRING  | 1   | UCBGRAF      | Graphics status flags (BTAM)                                                                                                                                                                                     |
|                                                               |       | 1... ..    |     | UCBOIP       | "X'80" Open is in progress                                                                                                                                                                                       |
|                                                               |       | .1.. ..    |     | UCBDRO       | "X'40" Device ready in open                                                                                                                                                                                      |
|                                                               |       | ..1. ..    |     | UCBDRNO      | "X'20" Device ready - not in open                                                                                                                                                                                |
|                                                               |       | ...1 ..    |     | UCBBTAM      | "X'10" Use BTAM - IGG019UP                                                                                                                                                                                       |
|                                                               |       | .... 1..   |     | UCBUPM       | "X'08" Use provided module                                                                                                                                                                                       |
|                                                               |       | .... .1..  |     | UCBRPND      | "X'04" Ready processing not done                                                                                                                                                                                 |
|                                                               |       | .... .1..  |     | UCBDWNR      | "X'02" Device went not ready                                                                                                                                                                                     |
|                                                               |       | .... ...1  |     | UCBRV039     | "X'01" Reserved - BTAM                                                                                                                                                                                           |
| 541                                                           | (21D) | ADDRESS    | 3   | UCBIRBA      | Address of the IRB used for scheduling the second level attention routine                                                                                                                                        |
| 544                                                           | (220) | ADDRESS    | 4   | UCBLDNCA (0) | Address of 3270 work area established by VTAM                                                                                                                                                                    |
| 544                                                           | (220) | ADDRESS    | 4   | UCBRDYQ (0)  | Asynchronous ready notification IRB address (BTAM)                                                                                                                                                               |
| 544                                                           | (220) | SIGNED     | 1   | UCBINRLN (0) | Same as UCBIRLN                                                                                                                                                                                                  |
| 544                                                           | (220) | SIGNED     | 1   | UCBIRLN      | Initialized RLN. The relative line number (RLN) of the IOB initialized for a read initial. If 0, no read initial is outstanding. Present only if the device index field is 1. Otherwise, this field is reserved. |
| 545                                                           | (221) | ADDRESS    | 3   | UCBLDNCB (0) | Address of 3270 work area established by VTAM                                                                                                                                                                    |
| 545                                                           | (221) | ADDRESS    | 3   | UCBRDYQA     | Asynchronous ready notification IRB address (BTAM)                                                                                                                                                               |
| 548                                                           | (224) | ADDRESS    | 4   | UCBCTLNK (0) | Same as UCBCTLNA below                                                                                                                                                                                           |

## Offsets

| Dec | Hex   | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                                                       |
|-----|-------|------------|-----|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 548 | (224) | SIGNED     | 1   | UCBRLN     | Device index. Index to the DEB UCB address field for this device. This value is also the relative line number.                                                                                                                                    |
| 549 | (225) | ADDRESS    | 3   | UCBCTLNA   | Control block link. If the device index field is 1, this field contains the address of the DEB for the line group. If the device index field is between 2 and 255 inclusive, this field contains the address of the UCB with a device index of 1. |

## Offsets

| Dec | Hex   | Type/Value | Len | Name (Dim) | Description                                          |
|-----|-------|------------|-----|------------|------------------------------------------------------|
| 0   | (0)   | STRUCTURE  | 0   | UCB        |                                                      |
| 536 | (218) | ADDRESS    | 4   | UCBRV040   | Reserved for use as teleprocessing extension pointer |
| 540 | (21C) | ADDRESS    | 4   | UCBICNCB   | Pointer to VTAM's ICNCB                              |

Comment

%UCBCO3;;

Communication Equipment UCBTYP flags and values (IECDUCBE)

These flags and values are valid only when UCBDVCLS  
(UCBTBYT3) is set to UCB3COMM.

%GOTO UCBCO4;

UCBTBYT4 Flag Byte

End of Comment

|      |      |          |                                              |
|------|------|----------|----------------------------------------------|
| 1111 | ...1 | UCB3791L | "X'F1" 3791 Local control unit               |
| ...1 | ...1 | UCB42AD1 | "X'11" 2702 Control unit with type 1 adapter |

## Offsets

| Dec | Hex   | Type/Value | Len | Name (Dim)   | Description                                                                                                                           |
|-----|-------|------------|-----|--------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 0   | (0)   | STRUCTURE  | 0   | UCB          |                                                                                                                                       |
| 536 | (218) | ADDRESS    | 4   | UCBCTCAD (0) | Address of an SRB/IOSB to be used for sense command byte by IECTCATN if UCBCTC80 bit is set to zero                                   |
| 536 | (218) | ADDRESS    | 4   | UCBCTCAL     | Address of JES3 routine for switching to alternate path CTC if UCBCTC80 bit is set to one                                             |
| 540 | (21C) | BITSTRING  | 1   | UCBCTCF1     | Channel-to-channel (CTC) device flag byte                                                                                             |
|     |       | 1... ....  |     | UCBCTC80     | "X'80" If this bit is on, above word has UCBCTCAL meaning. If this bit is off, above word has UCBCTCAD meaning.                       |
|     |       | .1.. ....  |     | UCBRV076     | "X'40" Reserved for CTC owner                                                                                                         |
|     |       | ..1. ....  |     | UCBRV077     | "X'20" Reserved for CTC owner                                                                                                         |
|     |       | ...1 ....  |     | UCBRV078     | "X'10" Reserved for CTC owner                                                                                                         |
|     |       | .... 1..   |     | UCBRV079     | "X'08" Reserved for CTC owner                                                                                                         |
|     |       | .... ..1   |     | UCBRV080     | "X'04" Reserved for CTC owner                                                                                                         |
|     |       | .... ..1   |     | UCBRV081     | "X'02" Reserved for CTC owner                                                                                                         |
|     |       | .... ...1  |     | UCBRV082     | "X'01" Reserved for CTC owner                                                                                                         |
| 541 | (21D) | BITSTRING  | 3   | UCBRV042     | Reserved for CTC owner                                                                                                                |
| 544 | (220) | ADDRESS    | 4   | UCBCTCWA     | IECTCATN work area address                                                                                                            |
| 548 | (224) | ADDRESS    | 4   | UCBCTCF2     | IOS CTC Flags, serialized via compare and swap                                                                                        |
|     |       | 1... ....  |     | UCBCCLAW     | "X'80" CTC owner is using CLAW protocol, never ending channel programs                                                                |
|     |       | 1... ....  |     | UCBNORMF     | "X'80" Prevent RMF from issuing asynch MSCH for device                                                                                |
|     |       | ..1. ....  |     | UCBCABYP     | "X'40" If set, bypass attention routine processing and post the caller's abnormal exit when attention+busy device status is received. |

Comment

EQU X'3F' Reserved  
UCBTBYT4 mapping

End of Comment

|           |         |                     |
|-----------|---------|---------------------|
| .... .... | UCBPCTC | "X'00" Parallel CTC |
| .... ...1 | UCBSCTC | "X'01" Serial CTC   |

## UCB Cross Reference

| Offsets |     | Type/Value | Len | Name (Dim) | Description                                         |
|---------|-----|------------|-----|------------|-----------------------------------------------------|
| Dec     | Hex |            |     |            |                                                     |
|         |     | .... ..1.  |     | UCBBCTC    | "X'02" Basic Mode ESCON CTC                         |
|         |     | .... ..11  |     | UCBRS6K    | "X'03" RS6000 acting like a CTC                     |
|         |     | .... ..1.. |     | UCB3172    | "X'04" 3172 acting like a CTC                       |
|         |     | .... ..1.1 |     | UCBOSA     | "X'05" OSA device                                   |
|         |     | .... ..11. |     | UCBOSAD    | "X'06" OSA diagnostic device                        |
|         |     | .... ..111 |     | UCBIQD     | "X'07" Internal Queued Direct Communications Device |
|         |     | .... 1111  |     | UCBOSAF    | "X'0F" OSA reserved device types 7-F                |
|         |     | ..1. ....  |     | UCBFCTC    | "X'20" FICON CTC                                    |

## UCB Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| SRTEALOC | 15         | 8         | UCBBALB  | 222        | 20        |
| SRTEASCI | 230        | 4         | UCBBASE  | 228        |           |
| SRTEBALB | 230        | 20        | UCBBCTC  | 224        | 2         |
| SRTEBNUL | 230        | 1         | UCBBGN   | 0          | 0         |
| SRTEBPRV | 230        | 10        | UCBBLP   | 22B        | 1         |
| SRTEBPUB | 230        | 8         | UCBBNUL  | 222        | 1         |
| SRTEBSTR | 230        | 4         | UCBBOX   | 6          | 1         |
| SRTEBSVL | 230        | 80        | UCBBPRV  | 222        | 10        |
| SRTEBVQS | 230        | 4         | UCBBPUB  | 222        | 8         |
| SRTECHGS | 15         | 40        | UCBBRSTA | 3          | 1         |
| SRTEDADI | 15         | 1         | UCBBRSTR | 0          | 2         |
| SRTEDMCT | 230        | 223       | UCBBSTR  | 222        | 4         |
| SRTEFSCT | 21C        | 218       | UCBBSVL  | 222        | 80        |
| SRTEFSEQ | 21C        | 21A       | UCBBTA   | 224        |           |
| SRTEJBNR | 15         | 200       | UCBBTAM  | 21C        | 10        |
| SRTEMNT  | 15         | 1         | UCBBTB   | 225        |           |
| SRTEONLI | 15         | 80        | UCBCABYP | 224        | 40        |
| SRTEPRES | 15         | 4         | UCBCCLAW | 224        | 80        |
| SRTERESV | 15         | 20        | UCBCGMID | 4          |           |
| SRTESTAB | 230        | 222       | UCBCGMNO | 1          |           |
| SRTESTAT | 15         | 203       | UCBCHAN  | 4          |           |
| SRTESYSR | 15         | 2         | UCBCHAR1 | 8          |           |
| SRTEUNLD | 15         | 10        | UCBCHAR2 | C          |           |
| SRTEUSER | 226        | 226       | UCBCHAR3 | 10         |           |
| SRTEVOLI | 230        | 21C       | UCBCHAR4 | 14         |           |
| UCB      | -200       |           | UCBCHGS  | 3          | 40        |
| UCB      | 0          |           | UCBCHPRM | C          |           |
| UCB      | 0          |           | UCBCLEAR | 6          | 2         |
| UCB      | 0          |           | UCBCLEXT | 18         |           |
| UCB      | 0          |           | UCBCLN   | 23E        |           |
| UCB      | 0          |           | UCBCMEXT | 0          |           |
| UCB      | 0          |           | UCBCMSEG | 0          | 200       |
| UCBACTIV | 3          |           | UCBCOMPA | 23E        | 4         |
| UCBAF    | 1          | 40        | UCBCSFLG | 1E         |           |
| UCBAFP1  | 0          | F         | UCBCSL   | 22B        | 8         |
| UCBALOC  | 3          | 8         | UCBCSLAC | 22B        | 4         |
| UCBALTCU | 1          | 2         | UCBCTCAD | 218        |           |
| UCBAMV   | 1          | 40        | UCBCTCAL | 218        |           |
| UCBAOF   | 218        |           | UCBCTCF1 | 21C        |           |
| UCBAOF1  | 218        |           | UCBCTCF2 | 224        |           |
| UCBAOF2  | 219        |           | UCBCTCWA | 220        |           |
| UCBAPUB  | 21C        |           | UCBCTC80 | 21C        | 80        |
| UCBASAFH | 7          | 4         | UCBCTD   | 230        |           |
| UCBASCI  | 230        | 4         | UCBCTLNA | 225        |           |
| UCBASID  | E          |           | UCBCTLNK | 224        |           |
| UCBASUN  | 2          | 80        | UCBCUIR  | 1          | 1         |
| UCBATI   | 3          |           | UCBCURPX | -4         | 8         |
| UCBATNCT | 21A        |           | UCBDADI  | 3          | 1         |
| UCBATRCD | 21B        | 1         | UCBDATP  | 223        | 224       |
| UCBATTTP | 14         | 80        | UCBDBUF  | 2          | 20        |
| UCBAUTOS | 7          | 20        | UCBDCC   | 1          | 80        |

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| UCBDCONS | 0          | 2         | UCBGRAFS | 2          |           |
| UCBDCTOF | 1C         |           | UCBGRAF0 | 2          | 8         |
| UCBDDRSW | 14         | 1         | UCBGRAF1 | 2          | 4         |
| UCBDDT   | 14         |           | UCBGRAF2 | 2          | 2         |
| UCBDDTI  | 14         |           | UCBGRAF3 | 2          | 1         |
| UCBDEFER | 6          | 80        | UCBGUCB  | 2          | 11        |
| UCBDEV   | 15         | 218       | UCBHALI  | 3          | 2         |
| UCBDI    | 224        |           | UCBHALT  | 6          | 4         |
| UCBDKAMX | 6          | 80        | UCBHDET  | 7          | 8         |
| UCBDKBYT | 6          |           | UCBHILVL | 7          | 10        |
| UCBDMC   | 223        | 7F        | UCBHDPDV | 3          | 1         |
| UCBDMCT  | 223        |           | UCBICNCB | 21C        |           |
| UCBDPAVA | 225        | 10        | UCBID    | 2          |           |
| UCBDPAVB | 225        | 20        | UCBIDCPY | 2          | CC        |
| UCBDQDSP | 22B        | 20        | UCBIDS   | 2          | 10        |
| UCBDRNO  | 21C        | 20        | UCBIEXT  | 8          |           |
| UCBDRO   | 21C        | 40        | UCBIMAGE | 1C         |           |
| UCBDSM   | 0          | 42        | UCBIN    | C          | 80        |
| UCBDUC   | 0          | 20        | UCBINCPY | 7          | 80        |
| UCBDUDN1 | 23E        | 20        | UCBINHIO | 5          | 10        |
| UCBDUDN2 | 23E        | 10        | UCBINRLN | 220        |           |
| UCBDVCLS | 12         |           | UCBIOQ   | -4         |           |
| UCBDVPWR | 11         | 1         | UCBIOBBA | 218        |           |
| UCBDVSHR | 222        | 80        | UCBIOBNA | 7          | 4         |
| UCBDWNR  | 21C        | 2         | UCBIOT   | 2          | 1         |
| UCBDYNPH | 5          | 2         | UCBIPGID | 10         |           |
| UCBD1600 | 23E        | 4         | UCBIQD   | 224        | 7         |
| UCBD6250 | 23E        | 2         | UCBIRB   | 21C        |           |
| UCBEIDAW | 7          | 8         | UCBIRBA  | 21D        |           |
| UCBENVRD | 1          | 8         | UCBIRLN  | 220        |           |
| UCBERADR | C          |           | UCBITFP  | 14         | 40        |
| UCBERCNT | 7          |           | UCBIVRR  | 14         | 4         |
| UCBERG   | 23C        |           | UCBIVRS  | 14         | 8         |
| UCBERLOG | 5          | 4         | UCBJBNA  | 0          |           |
| UCBERPC  | 22C        | 10        | UCBJES3  | 0          | 40        |
| UCBESV   | 22C        | 80        | UCBJ3DV  | 0          | 10        |
| UCBESVC  | 22C        | 20        | UCBLDATA | 20         |           |
| UCBESVE  | 22C        | 8         | UCBLDNCA | 220        |           |
| UCBETI   | 0          |           | UCBLDNCA | 221        |           |
| UCBEVA   | 22C        | 40        | UCBLERP  | 2          | 2         |
| UCBEXTP  | 15         |           | UCBLKHP  | 22B        | 2         |
| UCBEXTPT | 14         |           | UCBLOCK  | -8         |           |
| UCBFCBID | 8          |           | UCBMASGN | 7          | 80        |
| UCBFCBNM | 18         |           | UCBMDISP | 2          | 40        |
| UCBFCBOP | 5          |           | UCBMDLBT | 0          | F0        |
| UCBFCBO1 | 5          | 80        | UCBMDRBA | 25         |           |
| UCBFCBPE | 5          | 1         | UCBMDRBF | 24         |           |
| UCBFCBPS | 5          | C         | UCBMDRID | 233        |           |
| UCBFCTC  | 224        | 20        | UCBMDSE1 | 225        | 80        |
| UCBFLA   | 6          |           | UCBMMSGP | 0          | 4         |
| UCBFLB   | 7          |           | UCBMONT  | 0          | 1         |
| UCBFLC   | 14         |           | UCBMOUNT | 223        | 80        |
| UCBFLP1  | 5          |           | UCBMS    | 23B        |           |
| UCBFL1   | 6          | 206       | UCBMT    | 230        |           |
| UCBFL2   | 15         | 206       | UCBMTDSM | 234        | 80        |
| UCBFL4   | 225        |           | UCBMTFL1 | 234        |           |
| UCBFL5   | 1          |           | UCBMTKEP | 234        | 40        |
| UCBFL6   | 2          |           | UCBMTXPX | C          | 8         |
| UCBFL7   | 7          |           | UCBMTRET | 234        | 20        |
| UCBFRID  | 0          |           | UCBNALOC | 1          | 4         |
| UCBFSCCT | 218        |           | UCBNAME  | D          |           |
| UCBFSEQ  | 21A        |           | UCBNB    | 23A        |           |
| UCBFSER  | 224        |           | UCBNCC3  | 1E         | 80        |
| UCBGCB   | 21B        |           | UCBNEXP  | 22C        |           |
| UCBGRAF  | 21C        |           | UCBNLTP  | 22B        | 80        |

## UCB Cross Reference

| Name      | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|-----------|------------|-----------|----------|------------|-----------|
| UCBNOCON  | 7          | 20        | UCBRSV11 | 12         | 1         |
| UCBNOPTH  | 7          | 40        | UCBRSV21 | 22C        | 2         |
| UCBNORMF  | 224        | 80        | UCBRSV22 | 22C        | 1         |
| UCBNOSEL  | 7          | 10        | UCBRSV39 | 4          | 20        |
| UCBNOTRD  | 6          | 40        | UCBRSV40 | 4          | 10        |
| UCBNRY    | 6          | 40        | UCBRSV41 | 4          | 8         |
| UCBNSLTP  | 22B        | 40        | UCBRSV42 | 4          | 4         |
| UCBNSRCH  | 5          | 80        | UCBRSV43 | 4          | 2         |
| UCBNXUCB  | 8          |           | UCBRSV44 | 5          | 40        |
| UCBOB     | 0          |           | UCBRSV45 | 5          | 20        |
| UCBOBRID  | 232        |           | UCBRSV46 | 5          | 10        |
| UCBOBS1X  | 228        |           | UCBRSV49 | 5          | 2         |
| UCBOCR    | 0          |           | UCBRSV51 | 6          |           |
| UCBOFMCR  | 218        | 80        | UCBRSV65 | 218        | 8         |
| UCBOFNL   | 218        | 20        | UCBRSV66 | 218        | 4         |
| UCBOFPTR  | 218        | 10        | UCBRSV67 | 218        | 2         |
| UCBOFSP   | 218        | 40        | UCBRSV68 | 218        | 1         |
| UCBOIP    | 21C        | 80        | UCBRSV69 | 219        | 80        |
| UCBOLDISM | 0          | 8         | UCBRSV70 | 219        | 40        |
| UCBOLTEP  | 21B        | 80        | UCBRSV71 | 219        | 20        |
| UCBONLI   | 3          | 80        | UCBRSV72 | 219        | 10        |
| UCBOPEN   | 21A        |           | UCBRSV73 | 219        | 8         |
| UCBOPTNS  | 0          |           | UCBRSV74 | 219        | 4         |
| UCBOSA    | 224        | 5         | UCBRSV75 | 219        | 2         |
| UCBOSAD   | 224        | 6         | UCBRSV76 | 219        | 1         |
| UCBOSAF   | 224        | F         | UCBRSV77 | 21B        | 40        |
| UCBOUT    | C          | 40        | UCBRSV78 | 21B        | 20        |
| UCBPAVBI  | 230        |           | UCBRSV79 | 21B        | 10        |
| UCBPCTC   | 224        | 0         | UCBRS6K  | 224        | 3         |
| UCBPDCT   | 0          |           | UCBRTIAC | 21B        | 8         |
| UCBPDCTA  | 0          |           | UCBRVDEV | 230        | 8         |
| UCBPDCTO  | 12         |           | UCBRV005 | 22B        | 10        |
| UCBPERM   | 6          | 20        | UCBRV039 | 21C        | 1         |
| UCBPERR   | 22C        | 4         | UCBRV040 | 218        |           |
| UCBPGFL   | 222        | 40        | UCBRV042 | 21D        |           |
| UCBPGID   | 22         |           | UCBRV046 | 2          | 80        |
| UCBPONLI  | 7          | 1         | UCBRV047 | 2          | 40        |
| UCBPR     | 238        |           | UCBRV048 | 2          | 20        |
| UCBPRES   | 3          | 4         | UCBRV049 | 2          | 10        |
| UCBPRFX   | -4         | 200       | UCBRV055 | 0          | 8         |
| UCBPRSRS  | 222        | 20        | UCBRV056 | 0          | 4         |
| UCBPRUN   | 7          | 2         | UCBRV057 | 3          | 80        |
| UCBPSNS   | 6          | 10        | UCBRV058 | 3          | 40        |
| UCBPUB    | C          | 20        | UCBRV059 | 3          | 20        |
| UCBPW     | 239        |           | UCBRV060 | 3          | 10        |
| UCBPXST   | -200       | 1F8       | UCBRV061 | 3          | 8         |
| UCBRALOC  | 5          | 1         | UCBRV062 | 3          | 4         |
| UCBRDATA  | 4          |           | UCBRV063 | 3          | 2         |
| UCBRDYQ   | 220        |           | UCBRV066 | 21C        |           |
| UCBRDYQA  | 221        |           | UCBRV067 | 6          | 20        |
| UCBRERP   | 5          | 20        | UCBRV068 | 6          | 10        |
| UCBRESV   | 3          | 20        | UCBRV069 | 6          | 8         |
| UCBREW    | C          | 10        | UCBRV070 | 6          | 4         |
| UCBRIPND  | 21B        | 4         | UCBRV071 | 6          | 2         |
| UCBRLN    | 224        |           | UCBRV072 | 6          | 1         |
| UCBRPND   | 21C        | 4         | UCBRV073 | 7          |           |
| UCBRPS    | 230        | 10        | UCBRV075 | 24         |           |
| UCBRR     | 230        | 20        | UCBRV076 | 21C        | 40        |
| UCBRSV04  | 3          | 80        | UCBRV077 | 21C        | 20        |
| UCBRSV05  | 3          | 40        | UCBRV078 | 21C        | 10        |
| UCBRSV06  | 3          | 20        | UCBRV079 | 21C        | 8         |
| UCBRSV07  | 3          | 10        | UCBRV080 | 21C        | 4         |
| UCBRSV08  | 3          | 8         | UCBRV081 | 21C        | 2         |
| UCBRSV09  | 3          | 4         | UCBRV082 | 21C        | 1         |
| UCBRSV10  | 12         | 2         | UCBRV083 | 0          | 1         |

| Name      | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|-----------|------------|-----------|----------|------------|-----------|
| UCBRWTAU  | 23E        | 8         | UCBWDVAV | 225        | 40        |
| UCBSATI   | D          |           | UCBWGT   | C          |           |
| UCBSCTC   | 224        | 1         | UCBWTOID | 11         |           |
| UCBSDSE1  | 225        | 8         | UCBWTOWD | 10         |           |
| UCBSELPD  | 2          | 8         | UCBXTADR | 218        |           |
| UCBSER    | 23A        |           | UCBXTN   | 22C        |           |
| UCBSFLS   | 6          |           | UCBXTNB  | 22D        |           |
| UCBSHAR   | 222        | 2         | UCB1FEA0 | 10         | 80        |
| UCBSHRUP  | 5          | 40        | UCB1FEA1 | 10         | 40        |
| UCBSIO    | 236        |           | UCB1FEA2 | 10         | 20        |
| UCBSKPPFG | 21B        | 2         | UCB1FEA3 | 10         | 10        |
| UCBSMS    | 1          | 20        | UCB1FEA4 | 10         | 8         |
| UCBSMSMM  | 2          | 4         | UCB1FEA5 | 10         | 4         |
| UCBSNS    | 220        |           | UCB1FEA6 | 10         | 2         |
| UCBSNSCT  | 4          |           | UCB1FEA7 | 10         | 1         |
| UCBSQC    | 224        |           | UCB2OPT0 | 11         | 80        |
| UCBSSPND  | 7          | 40        | UCB2OPT1 | 11         | 40        |
| UCBSTAB   | 222        |           | UCB2OPT2 | 11         | 20        |
| UCBSTART  | 218        |           | UCB2OPT3 | 11         | 10        |
| UCBSTAT   | 3          |           | UCB2OPT4 | 11         | 8         |
| UCBSTI    | 1          |           | UCB2OPT5 | 11         | 4         |
| UCBSTLI   | 6          |           | UCB2OPT6 | 11         | 2         |
| UCBSTND   | 2          | FF        | UCB2OPT7 | 11         | 1         |
| UCBSTRT   | 6          | 8         | UCB3CHAR | 12         | 4         |
| UCBST1    | 2          | 12        | UCB3COMM | 12         | 40        |
| UCBST3    | 2          | FD        | UCB3CTC  | 12         | 41        |
| UCBSWAPF  | 5          | 8         | UCB3DACC | 12         | 20        |
| UCBSYSR   | 3          | 2         | UCB3DISP | 12         | 10        |
| UCBTBYT1  | 10         |           | UCB3TAPE | 12         | 80        |
| UCBTBYT2  | 11         |           | UCB3UREC | 12         | 8         |
| UCBTBYT3  | 12         |           | UCB3172  | 224        | 4         |
| UCBTBYT4  | 13         |           | UCB3211  | 0          | 9         |
| UCBTEB    | 21C        |           | UCB3263  | 0          | 11        |
| UCBTFL1   | 22B        |           | UCB3400  | 23E        | 3         |
| UCBTFL1S  | 22B        | 18        | UCB3423  | 23E        | 82        |
| UCBTFL2   | 22A        |           | UCB3480  | 23E        | 80        |
| UCBTLPOS  | 22A        | 10        | UCB3490  | 23E        | 81        |
| UCBTPSF   | 22A        | 40        | UCB3540X | 0          |           |
| UCBTR     | 234        |           | UCB3591  | 23E        | 83        |
| UCBTVCMP  | 22A        | 20        | UCB3791L | 21C        | F1        |
| UCBTW     | 235        |           | UCB3800  | 0          | E         |
| UCBTXMS   | 22A        | 80        | UCB3800X | 0          |           |
| UCBTYP    | 10         |           | UCB3838  | 0          | 4C        |
| UCBUCS    | 0          |           | UCB3895  | 0          | 19        |
| UCBUCSID  | 0          |           | UCB42AD1 | 21C        | 11        |
| UCBUCSOP  | 4          |           | UCB4245  | 0          | 11        |
| UCBUCSO1  | 4          | 80        | UCB4248  | 0          | 13        |
| UCBUCSO2  | 4          | 40        |          |            |           |
| UCBUCSPE  | 4          | 1         |          |            |           |
| UCBUDE    | 14         | 20        |          |            |           |
| UCBUNLD   | 3          | 10        |          |            |           |
| UCBUNTYP  | 13         |           |          |            |           |
| UCBUPM    | 21C        | 8         |          |            |           |
| UCBUSER   | 226        |           |          |            |           |
| UCBVHRSN  | C          | 2         |          |            |           |
| UCBVL PWR | 11         | 2         |          |            |           |
| UCBVLR SN | C          | 1         |          |            |           |
| UCBVLSER  | 0          |           |          |            |           |
| UCBV LVER | 6          | 40        |          |            |           |
| UCBVOLI   | 21C        |           |          |            |           |
| UCBV OPT  | 22C        |           |          |            |           |
| UCBVORSN  | C          | 4         |          |            |           |
| UCBVRDEV  | 0          | 80        |          |            |           |
| UCBVSDR   | 1          | 10        |          |            |           |
| UCBVTOC   | 218        |           |          |            |           |





## UCM Heading Information

**Common Name:** UNIT CONTROL MODULE (UCM) DEFINITION  
**Macro ID:** IEECUCM  
**DSECT Name:** UCMPRFX (DSECT for MCS prefix), UCM (DSECT for UCM base), UCMEIL (DSECT for UCM event indication list), UCMLIST (DSECT for individual device entry UCME map), UCMFEXTA (DSECT for UCM fixed extension base), UCMFSAVE (DSECT for UCM fixed extension save area), UCMPEXTA (DSECT for UCM pageable extension base), UCMEFEXT (DSECT for UCM fixed extension), UCMEPEXT (DSECT for UCME pageable extension)  
**Owning Component:** Communications Task (SC1CK)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: Nucleus resident and key 0 for areas created by System Generation. Subpool 245 and key 0 for UCM fixed extension base and UCME fixed extensions. Subpool 241 and key 0 for UCM pageable extension base and UCME pageable extensions.  
 Data Space: No  
 Residency: All postions except the UCME Pageable extension reside below 16M.  
**Size:** NUCLEUS- 660 bytes and 80 byte/console(99 entries)  
 Subpool 245 - 436 bytes and 108 bytes/console  
 Subpool 241 - 628 bytes and 280 bytes/console  
**Created by:** (LISTED BY DSECT)  
 IEECVUCM - UCM2EXT, UCMPREFX, UCM, UCMEIL, UCMLIST  
 IEAVN703 - UCMFEXTA, UCMFSAVE, UCMPEXTA, UCMEFEXT, UCMEPEXT  
**Pointed to by:** (DSECT - POINTER)  
 UCM - CVTCUCB  
 UCMLIST - UCMVEA  
**Serialization:** LOCAL AND CMS LOCKS  
**Function:** \* DEFINE THE CHARACTERISTICS OF ALL CONSOLES  
 \* CONTAIN CONTROL INFORMATION FOR COMM TASK.

### UCM Map

| Offsets |      |            |     |             |                                                        |
|---------|------|------------|-----|-------------|--------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)  | Description                                            |
| 0       | (0)  | STRUCTURE  | 0   | UCM2EXT     | , - START OF UCM EXTENSION                             |
| 0       | (0)  | SIGNED     | 2   | UCM2DRCS    | - IEAVSTAA SDUMP RETURN, REASON CODES                  |
| 2       | (2)  | SIGNED     | 2   | UCMRSV85    | - RESERVED                                             |
| 4       | (4)  | ADDRESS    | 4   | UCM2PST     | "V(IEA0PT02)" - BRANCH ENTRY POINT INTO 'POST' ROUTINE |
| 8       | (8)  | ADDRESS    | 4   | UCM2STA (0) | - POINTER TO IEAVSTAA WORK AREA (SDWA)                 |
| 8       | (8)  | BITSTRING  | 1   | UCM2SFLG    | - IEAVSTAA CONTROL FLAGS                               |
|         |      | 1... ....  |     | UCM2SDWA    | "BIT0" - SDWA OBTAINED                                 |
|         |      | .1.. ....  |     | UCM2SENT    | "BIT1" - IEAVSTAA ENTERED                              |
|         |      | ..1. ....  |     | UCM2DTAK    | "BIT2" - DUMP TAKEN                                    |
|         |      | ...1 ....  |     | UCM2DSTR    | "BIT3" - DUMP STARTED                                  |
|         |      | .... 1...  |     | UCM2WTOI    | "BIT4" - IEAVSTAA ABEND MESSAGE ISSUED                 |
|         |      | .... .1..  |     | UCM2REC     | "BIT5" - RECURSIVE ENTRY OCCURRED                      |
|         |      | .... ..1.  |     | UCM2FAIL    | "BIT6" - COMM TASK HAS FAILED DURING THIS IPL          |
|         |      | .... ...1  |     | UCMRV008    | "BIT7,,C'X" - RESERVED (MDC055) YM5195                 |
| 9       | (9)  | ADDRESS    | 3   | UCM2STAA    | - ADDRESS OF SDWA OR ZERO                              |
| 12      | (C)  | SIGNED     | 4   | UCM2TOKN    | - IEAVSTAA ESTAE TOKEN                                 |
| 16      | (10) | ADDRESS    | 4   | UCMRSV73    | - RESERVED (MDC386)                                    |

## UCM Map

| Offsets |      |            |     |              |                                                                                                         |
|---------|------|------------|-----|--------------|---------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                             |
| 20      | (14) | ADDRESS    | 4   | UCMRSV74     | - RESERVED (MDC387)                                                                                     |
| Offsets |      |            |     |              |                                                                                                         |
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                             |
| 0       | (0)  | STRUCTURE  | 0   | UCMPRFX      | , - START OF MCS PREFIX                                                                                 |
| 0       | (0)  | X'0'       | 0   | MCSUCM       | *** - ALIAS FOR START OF MCS PREFIX                                                                     |
| 0       | (0)  | ADDRESS    | 4   | UCMMCEN      | - ADDRESS OF MASTER CONSOLE UCM ENTRY                                                                   |
| 4       | (4)  | CHARACTER  | 72  | UCMSAVE0 (0) | - RESIDENT REGISTER SAVE AREA FOR IEACVTSK                                                              |
| 4       | (4)  | SIGNED     | 4   | UCMSVA0      | - WORD 1                                                                                                |
| 8       | (8)  | SIGNED     | 4   | UCMSVB0      | - WORD 2                                                                                                |
| 12      | (C)  | SIGNED     | 4   | UCMSVC0      | - WORD 3                                                                                                |
| 16      | (10) | SIGNED     | 4   | UCMSVD0      | - WORD 4                                                                                                |
| 20      | (14) | SIGNED     | 4   | UCMSVE0      | - WORD 5                                                                                                |
| 24      | (18) | SIGNED     | 4   | UCMSVF0      | - WORD 6                                                                                                |
| 28      | (1C) | SIGNED     | 4   | UCMSVG0      | - WORD 7                                                                                                |
| 32      | (20) | SIGNED     | 4   | UCMSVH0      | - WORD 8                                                                                                |
| 36      | (24) | SIGNED     | 4   | UCMSVI0      | - WORD 9                                                                                                |
| 40      | (28) | SIGNED     | 4   | UCMSVJ0      | - WORD 10                                                                                               |
| 44      | (2C) | SIGNED     | 4   | UCMSVK0      | - WORD 11                                                                                               |
| 48      | (30) | SIGNED     | 4   | UCMSVL0      | - WORD 12                                                                                               |
| 52      | (34) | SIGNED     | 4   | UCMSVM0      | - WORD 13                                                                                               |
| 56      | (38) | SIGNED     | 4   | UCMSVN0      | - WORD 14                                                                                               |
| 60      | (3C) | SIGNED     | 4   | UCMSVO0      | - WORD 15                                                                                               |
| 64      | (40) | SIGNED     | 4   | UCMSVP0      | - WORD 16                                                                                               |
| 68      | (44) | SIGNED     | 4   | UCMSVQ0      | - WORD 17                                                                                               |
| 72      | (48) | SIGNED     | 4   | UCMSVR0      | - WORD 18                                                                                               |
| 76      | (4C) | ADDRESS    | 4   | UCMDOME      | - ADDRESS OF FIRST DOM ELEMENT                                                                          |
| 80      | (50) | ADDRESS    | 4   | UCMWTOX      | - ZERO (OS/VS2) (MDC383)                                                                                |
| 84      | (54) | BITSTRING  | 2   | UCMSFLGS (0) | - SYSTEM CONTROL FLAGS                                                                                  |
| 84      | (54) | ADDRESS    | 1   | UCMSFLG1     | - BYTE 1 OF SYSTEM CONTROL FLAGS                                                                        |
|         |      | 1... ....  |     | UCMSYSHC     | "BIT0" - SYSLOG WAS HARDCOPY LOG, USED WHEN JES GOES DOWN THEN COMES BACK TO CHECK IF SYSLOG WAS ACTIVE |
|         |      | .1.. ....  |     | UCMSYSB      | "BIT1" - HARDCOPY SUPPORT REQUIRED                                                                      |
|         |      | ..1. ....  |     | UCMSYSC      | "BIT2" - COMMANDS SPECIFIED FOR V SYSLOG, HARDCPY                                                       |
|         |      | ...1 ....  |     | UCMSYSD      | "BIT3" - A bell on some console must be rung to indicate a no consoles condition                        |
|         |      | .... 1..   |     | UCMSYSE      | "BIT4" - NO CONSOLES ACTIVE                                                                             |
|         |      | .... .1..  |     | UCMSYSF      | "BIT5" - DISPLAY CONSOLES EXIST                                                                         |
|         |      | .... ..1.  |     | UCMSYSG      | "BIT6" - HARDCOPY DEVICE IS SYSLOG                                                                      |
|         |      | .... ...1  |     | UCMSYSH      | "BIT7" - A NON-SYSLOG HARDCOPY DEVICE EXISTS                                                            |
| 85      | (55) | ADDRESS    | 1   | UCMSFLG2     | BYTE 2 OF SYSTEM CONTROL FLAGS                                                                          |
|         |      | 1... ....  |     | UCMSYSI      | "BIT0" - WQE HOUSEKEEPING REQUIRED                                                                      |
|         |      | ..1. ....  |     | UCMSYSJ      | "BIT1" - HARDCOPY TO BE WRITTEN                                                                         |
|         |      | ..1. ....  |     | UCMSYSK      | "BIT2" - NEW CONSOLE IS COMPOSITE                                                                       |
|         |      | ...1 ....  |     | UCMSYSL      | "BIT3" - DEVICE BEING ACCESSED BY CONSOLE SWITCH TO SOUND CONSOLE ALARM (MDC384)                        |
|         |      | .... 1..   |     | UCMSYSM      | "BIT4" - FAILING CONSOLE IS COMPOSITE                                                                   |
|         |      | .... .1..  |     | UCMSYSN      | "BIT5" - DISPLAY CONSOLES ACTIVE                                                                        |
|         |      | .... ..1.  |     | UCMSYSO      | "BIT6" - DUMMY ATTENTION BY WTL                                                                         |
|         |      | .... ...1  |     | UCMSYSP      | "BIT7" - DEVICE BEING ACCESSED BY CONSOLE SWITCH TO SOUND MAIN POWER ALARM (MDC329)                     |
| 86      | (56) | BITSTRING  | 2   | UCMWTOX      | - DEFAULT VALUES FOR OLD WTO/R MACROS                                                                   |
| 88      | (58) | SIGNED     | 4   | UCMCMID      | - MSG IDENTIFICATION NUMBER                                                                             |
| 92      | (5C) | ADDRESS    | 4   | UCMHCUCM     | - ADDRESS OF HARDCOPY UCM ENTRY (OR ZERO)                                                               |
| 96      | (60) | SIGNED     | 1   | UCMXCT       | - EXTERNAL REQUEST COUNT                                                                                |
| 97      | (61) | ADDRESS    | 1   | UCMMFLG3     | - MISCELLANEOUS CONTROL FLAGS                                                                           |
|         |      | 1... ....  |     | UCMREFSH     | "BIT0" - XMCS REFRESH DATA FROM OTHER SYSTEMS                                                           |
|         |      | ..1. ....  |     | UCMLOGSW     | "BIT1" - SYSLOG WAS SWITCHED                                                                            |
|         |      | ..1. ....  |     | UCMMRSV2     | "BIT2" - RESERVED                                                                                       |
|         |      | ...1 ....  |     | UCMMRSV3     | "BIT3" - RESERVED                                                                                       |
|         |      | .... 1..   |     | UCMMRSV4     | "BIT4" - RESERVED                                                                                       |

| Offsets |      |            |     |            |                                                                                                         |
|---------|------|------------|-----|------------|---------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                             |
|         |      | .... .1..  |     | UCMMRSV5   | "BIT5" - RESERVED                                                                                       |
|         |      | .... .1.   |     | UCMMRSV6   | "BIT6" - RESERVED                                                                                       |
|         |      | .... ...1  |     | UCMMRSV7   | "BIT7" - RESERVED                                                                                       |
| 98      | (62) | ADDRESS    | 2   | UCMNIPD    | - NIP OR SYNCH I/O DELAY IN SECONDS SEE MEMBER CONDELAY IN SAMPLIB FOR INSTRUCTIONS ON USING THIS FIELD |
| 100     | (64) | ADDRESS    | 4   | UCMDOMT    | - ADDRESS OF FIRST DOM ELEMENT IN NEW DOM SCAN SUPPORT QUEUE                                            |
| 104     | (68) | BITSTRING  | 24  | UCMXSA (0) | - 6-WORD PARAMETER LIST FOR SVC 72                                                                      |
| 104     | (68) | ADDRESS    | 4   | UCM1WD     | - PTR TO 3RD WORD OF SVC 72 PARM LIST                                                                   |
| 108     | (6C) | ADDRESS    | 4   | UCM2WD     | - 2ND WORD OF SVC 72 PARM LIST                                                                          |
| 112     | (70) | ADDRESS    | 4   | UCM3WD     | - 3RD WORD OF SVC 72 PARM LIST                                                                          |
| 116     | (74) | ADDRESS    | 4   | UCM4WD     | - 4TH WORD OF SVC 72 PARM LIST                                                                          |
| 120     | (78) | ADDRESS    | 4   | UCM5WD     | - 5TH WORD OF SVC 72 PARM LIST                                                                          |
| 124     | (7C) | ADDRESS    | 4   | UCM6WD     | - 6TH WORD OF SVC 72 PARM LIST                                                                          |
| 128     | (80) | ADDRESS    | 4   | UCMDUCBA   | ADDRESS OF DUMMY UCB                                                                                    |
| 132     | (84) | ADDRESS    | 4   | UCMCUCME   | - CURRENT UCME                                                                                          |
| 136     | (88) | SIGNED     | 4   | UCMOPSEO   | - OPERLOG task is to be activated                                                                       |
| 140     | (8C) | ADDRESS    | 1   | UCMMFLG4   | - Miscellaneous flags                                                                                   |
|         |      | 1... ....  |     | UCMOPSS    | "BIT0" - OPERLOG specified in CONSOLxx or VARY OPERLOG,HARDCOPY issued                                  |
|         |      | .1.. ....  |     | UCMOPSA    | "BIT1" - OPERLOG active                                                                                 |
|         |      | ..1. ....  |     | UCMOPSV    | "BIT2" - OPERLOG is being activated                                                                     |
|         |      | ...1 ....  |     | UCMOPSD    | "BIT3" - OPERLOG is to be detached                                                                      |
|         |      | .... 1...  |     | UCMOPSEA   | "BIT4" - OPERLOG is activated at least once                                                             |
|         |      | .... .1..  |     | UCMOPSS5   | "BIT5" - Reserved                                                                                       |
|         |      | .... .1.   |     | UCMOPSS6   | "BIT6" - Reserved                                                                                       |
|         |      | .... ...1  |     | UCMOPSS7   | "BIT7" - Reserved                                                                                       |
| 141     | (8D) | ADDRESS    | 3   | UCMRSV69   | - RESERVED                                                                                              |
| 144     | (90) | SIGNED     | 4   | UCMOPSET   | - OPERLOG task ended ECB                                                                                |
| 148     | (94) | SIGNED     | 4   | UCMOPSES   | - OPERLOG active ECB                                                                                    |
| 152     | (98) | SIGNED     | 4   | UCMOPSEP   | - OPERLOG to be stopped ECB                                                                             |
| 156     | (9C) | ADDRESS    | 1   | UCMSDS1    | - SDS FLAGS                                                                                             |
|         |      | 1... ....  |     | UCMSDS1A   | "BIT0" - STCMDS SPECIFIED FOR V SYSLOG,HARDCPY                                                          |
|         |      | .1.. ....  |     | UCMSDS1B   | "BIT1" - INCMDS SPECIFIED FOR V SYSLOG,HARDCPY                                                          |
|         |      | ..1. ....  |     | UCMSDS1C   | "BIT2" - STCMDS SPECIFIED FOR V XXX,HARDCPY                                                             |
|         |      | ...1 ....  |     | UCMSDS1D   | "BIT3" - INCMDS SPECIFIED FOR V XXX,HARDCPY                                                             |
|         |      | .... 1...  |     | UCMSDS1E   | "BIT4" - CMDS SPECIFIED FOR V XXX,HARDCPY                                                               |
|         |      | .... .1..  |     | UCMPRTHC   | "BIT5" - PRINTER CONSOLE WAS THE HARDCOPY LOG                                                           |
|         |      | .... .1.   |     | UCMRSV08   | "BIT6" - RESERVED                                                                                       |
|         |      | .... ...1  |     | UCMRSV09   | "BIT7" - RESERVED                                                                                       |
| 157     | (9D) | ADDRESS    | 1   | UCMMISCF   | - MISCELLANEOUS BITS                                                                                    |
|         |      | 1... ....  |     | UCMJ3CBS   | "BIT0" - JES3 CONSOLE BUFFER SHORTAGE                                                                   |
|         |      | ..1. ....  |     | UCMJ3SAE   | "BIT1" - JES3 WTO STAGING AREA EXCESS                                                                   |
|         |      | ...1 ....  |     | UCMWU100   | "BIT2" - WQE UTILIZATION HAS REACHED 100%, BUT HAS NOT DROPPED TO 95%                                   |
|         |      | .... 1...  |     | UCMENFDM   | "BIT3" - A DUMP HAS BEEN TAKEN BY THE COMM TASK ENF LISTEN EXIT RTN (IEAVG600)                          |
|         |      | .... .1..  |     | UCMWU400   | "BIT4" - WQEs ABOVE EXHAUSTED                                                                           |
|         |      | .... .1.   |     | UCMWDONE   | "BIT5" - WQE shortage has been processed                                                                |
|         |      | .... .1.   |     | UCMRSV0B   | "BIT6" - RESERVED                                                                                       |
|         |      | .... ...1  |     | UCMRSV0C   | "BIT7" - RESERVED                                                                                       |
| 158     | (9E) | SIGNED     | 2   | UCMRSV65   | - RESERVED (MDC375)                                                                                     |

Comment

POINTERS TO UCM MCS PREFIX AND UCM EXTENSION LOCATED IMMEDIATELY PRECEDING UCM BASE SECTION

End of Comment

|     |      |         |   |          |                                          |
|-----|------|---------|---|----------|------------------------------------------|
| 160 | (A0) | ADDRESS | 4 | UCM2PTR  | - ADDRESS OF UCM EXTENSION (OS/VS2 ONLY) |
| 164 | (A4) | ADDRESS | 4 | UCMPRFXP | - ADDRESS OF UCM MCS PREFIX              |

# UCM Map

| Offsets |      |            |     |              |                                                                                                    |
|---------|------|------------|-----|--------------|----------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                        |
| 0       | (0)  | STRUCTURE  | 0   | UCM          | , - START OF UCM BASE FIXED ECBs                                                                   |
| 0       | (0)  | SIGNED     | 4   | UCMXECB      | - EXTERNAL INTERRUPT ECB                                                                           |
| 4       | (4)  | SIGNED     | 4   | UCMAECB      | - ATTENTION INTERRUPT ECB                                                                          |
| 8       | (8)  | SIGNED     | 4   | UCMOECB      | - WTO/WTOR REQUEST ECB                                                                             |
| 12      | (C)  | SIGNED     | 4   | UCMDECB (0)  | - DOM REQUEST ECB                                                                                  |
| 12      | (C)  | SIGNED     | 4   | UCMLECB      | - WTL REQUEST ECB                                                                                  |
| 16      | (10) | SIGNED     | 4   | UCMUECB      | - User state event ECB                                                                             |
| 20      | (14) | ADDRESS    | 4   | UCMLSTP      | - ADDRESS OF EVENT INDICATION LIST (EIL) WTO/WTOR CONTROL FIELDS                                   |
| 24      | (18) | ADDRESS    | 4   | UCMWTOQ      | - ADDRESS OF FIRST WQE (SYSOUT QUEUE)                                                              |
| 28      | (1C) | ADDRESS    | 4   | UCMRPYQ      | - ADDRESS OF FIRST ORE (REPLY-Q ELEMENT)                                                           |
| 32      | (20) | ADDRESS    | 4   | UCMRPYIP     | - Address of Reply ID Table, if in local mode Address of SARI if in sysplex mode, and UPMRPYLV = 1 |
| 36      | (24) | SIGNED     | 4   | UCMRMAX      | - RMAX value - maximum reply id                                                                    |
| 40      | (28) | BITSTRING  | 2   | UCMRPYF (0)  | - Reply Flags                                                                                      |
| 40      | (28) | BITSTRING  | 1   | UCMRPYF1     | - First byte of Reply Flags                                                                        |
|         |      | 1... ....  |     | UCMRPYO1     | "BIT0" - ON = Reply ID 0 is in use OFF = Reply ID 0 is available                                   |
|         |      | .1.. ....  |     | UCMENHR      | "BIT1" - Enhanced short-form REPLY supported                                                       |
| 41      | (29) | BITSTRING  | 1   | UCMRPYF2     | - Second byte of Reply Flags                                                                       |
| 42      | (2A) | BITSTRING  | 2   | UCMRPYIL     | - Length of Reply ID table pointed to by UCMRPYIP                                                  |
| 44      | (2C) | SIGNED     | 2   | UCMRQLM      | Reply id assignment limit                                                                          |
| 46      | (2E) | SIGNED     | 2   | UCMWQLM      | - WQE BUFFER LIMIT                                                                                 |
| 48      | (30) | DBL WORD   | 8   | UCMWQCNT (0) | - WQE COUNT FIELDS                                                                                 |
| 48      | (30) | SIGNED     | 4   | UCMWQRSV     | - RESERVED WQE COUNT                                                                               |
| 52      | (34) | SIGNED     | 4   | UCMWQNR      | - CURRENT WQE COUNT                                                                                |
| 56      | (38) | SIGNED     | 2   | UCMRQNR      | - CURRENT ORE COUNT                                                                                |

Comment

THE FOLLOWING FIELD IS USED TO CALCULATE THE LENGTH OF A UTOKEN. IF THE SIZE OF A UTOKEN EVER CHANGES, CHANGE THIS FIELD ONLY.

End of Comment

|    |      |           |   |            |                                                                          |
|----|------|-----------|---|------------|--------------------------------------------------------------------------|
| 56 | (38) | X'50'     | 0 | UCMUSIZE   | "80" UTOKEN DEFAULT SIZE                                                 |
| 56 | (38) | X'5E'     | 0 | UCMUCASZ   | "94" UTOKEN SIZE + COMPRESSED ACEE STRUCTURE SIZE                        |
| 58 | (3A) | SIGNED    | 2 | UCMULGTH   | UTOKEN LENGTH                                                            |
| 60 | (3C) | SIGNED    | 4 | UCMWQEND   | - ADDRESS OF LAST WQE - OR ZERO                                          |
| 64 | (40) | ADDRESS   | 4 | UCMPXA     | - ADDR OF COMMUNICATIONS TASK TCB (OS/VS2)                               |
| 68 | (44) | BITSTRING | 1 | UCMPXB (0) | -                                                                        |
| 68 | (44) | ADDRESS   | 1 | UCMMODE    | - MODE FLAGS                                                             |
|    |      | 1... .... |   | UCMCTIC    | "BIT0" - COMMTASK INITIALIZATION COMPLETE                                |
|    |      | .1.. .... |   | UCMSPLXQ   | "BIT1" - ON= SYSTEM CAPABLE OF SYSPLEX FUNCTIONS, AND RMAX CAN BE > 99   |
|    |      | ..1. .... |   | UCMTPUTA   | "BIT2" - TPUTTER IS ACTIVE (OS/VS2) MDC017                               |
|    |      | ...1 .... |   | UCMSYPLX   | "BIT3" - ON= SYSTEM IS A MEMBER OF A SYSPLEX                             |
|    |      | .... 1..  |   | UCMAMFA    | "BIT4" - ACCEPT 'VARY' CMD W/MSTCONS OPND FROM ANY MCS SECONDARY CONSOLE |
|    |      | .... .1.. |   | UCMOGCE    | "BIT5" - ONLY DISPLAY CONSOLES ACTIVE                                    |
|    |      | .... ..1. |   | UCMFSTAT   | "BIT6" - RACF OPERCMDS CLASS IS ACTIVE                                   |
|    |      | .... ...1 |   | UCM1SYS    | "BIT7" - ON= CURRENTLY THERE EXISTS ONE AND ONLY ONE SYSTEM IN SYSPLEX   |
| 69 | (45) | BITSTRING | 1 | UCMAMRF    | - ACTION MESSAGE RETENTION FACILITY FLAGS (MDC445)                       |
|    |      | 1... .... |   | UCMAMRFA   | "BIT0" - IF ON, THE ACTION MESSAGE RETENTION FACILITY IS ACTIVE (MDC446) |
|    |      | .1.. .... |   | UCMAMRFF   | "BIT1" - IF ON, THE ACTION MESSAGE RETENTION FACILITY FAILED (MDC447)    |
|    |      | ..1. .... |   | UCMRSV78   | "BIT2" - RESERVED                                                        |
|    |      | ...1 .... |   | UCMABUFF   | "BIT3" - IF ON, THE ACTION MESSAGE RETENTION FACILITY BUFFER IS FULL     |

| Offsets |      |            |     |            |                                                                               |
|---------|------|------------|-----|------------|-------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                   |
|         |      | .... 1...  |     | UCMAMRFC   | "BIT4" - IF ON, ACTIVATE THE ACTION MESSAGE RETENTION FACILITY                |
|         |      | .... .1..  |     | UCMEXSSI   | "BIT5" - IF ON, AN EXIT OR SSI IS ACTIVE UNDER THE COMM TASK                  |
|         |      | .... ..1.  |     | UCMAMRFR   | "BIT6" - Perform AMRF Refresh                                                 |
|         |      | .... ...1  |     | UCMRSV81   | "BIT7" - RESERVED                                                             |
| 70      | (46) | ADDRESS    | 1   | UCMVRSN    | VERSION LEVEL                                                                 |
| 70      | (46) | X'1'       | 0   | UCMSP13    | "1" - VERSION LEVEL FOR OS/VS2 JBB1326                                        |
| 70      | (46) | X'2'       | 0   | UCMSP211   | "2" - VERSION LEVEL FOR OS/VS2 JBB2110                                        |
| 70      | (46) | X'3'       | 0   | UCMSP220   | "3" - VERSION LEVEL FOR OS/VS2 JBB2220                                        |
| 70      | (46) | X'4'       | 0   | UCMSP410   | "4" - VERSION LEVEL FOR OS/VS2 HBB4410                                        |
| 70      | (46) | X'5'       | 0   | UCMSP420   | "5" - VERSION LEVEL FOR MVS/ESA HBB4420                                       |
| 70      | (46) | X'6'       | 0   | UCMSP422   | "6" - VERSION LEVEL FOR MVS/ESA JBB4422                                       |
| 70      | (46) | X'7'       | 0   | UCMSP440   | "7" - VERSION LEVEL FOR MVS/ESA HBB5510                                       |
| 70      | (46) | X'8'       | 0   | UCMSP51X   | "8" - VERSION LEVEL FOR WTO FLOOD APARS                                       |
| 70      | (46) | X'8'       | 0   | UCMVRID    | "UCMSP51X" - VERSION LEVEL VALUE                                              |
| 71      | (47) | BITSTRING  | 1   | UCMMODE2   | - MODE FLAGS #2                                                               |
|         |      | 1... ....  |     | UCMOVRDE   | "BIT0" - ON -> NOJES3 SPECIFIED ON THE CON= STATEMENT.                        |
|         |      | .1.. ....  |     | UCMLOGS    | "BIT1" - OK for IEAVM601 to send to syslog                                    |
|         |      | ..1. ....  |     | UCMMD202   | "BIT2" - RESERVED                                                             |
|         |      | ...1 ....  |     | UCMHCENT   | "BIT3" - ON-> HCFORMAT=CENTURY specified in CONSOLxx, 4-digit years in SYSLOG |
|         |      | .... 1...  |     | UCMMD204   | "BIT4" - RESERVED                                                             |
|         |      | .... .1..  |     | UCMMD205   | "BIT5" - RESERVED                                                             |
|         |      | .... ..1.  |     | UCMMD206   | "BIT6" - RESERVED                                                             |
|         |      | .... ...1  |     | UCMMD207   | "BIT7" - RESERVED                                                             |

Comment

THE FOLLOWING FIELDS ARE USED FOR ACCESSING UCM INDIVIDUAL DEVICE ENTRIES. THEY MUST BE DEFINED IN THE ORDER SHOWN.

End of Comment

|    |      |           |    |              |                              |
|----|------|-----------|----|--------------|------------------------------|
| 72 | (48) | CHARACTER | 12 | UCMVDATA (0) | - UCM ENTRY ACCESSING DATA   |
| 72 | (48) | ADDRESS   | 4  | UCMVEA       | - ADDRESS OF FIRST UCM ENTRY |
| 76 | (4C) | ADDRESS   | 4  | UCMVEZ       | - LENGTH OF A UCM ENTRY      |
| 80 | (50) | ADDRESS   | 4  | UCMVEL       | - ADDRESS OF LAST UCM ENTRY  |

Comment

SAVE AREA FOR REFRESHABILITY ROUTINES

End of Comment

|    |      |           |   |          |                                                                                                             |
|----|------|-----------|---|----------|-------------------------------------------------------------------------------------------------------------|
| 84 | (54) | ADDRESS   | 4 | UCMDOMLE | - ADDRESS OF LAST DOM ELEMENT                                                                               |
| 88 | (58) | ADDRESS   | 4 | UCMDIDL  | - Address of deferred reply id table To preserve serialization, this table may only be accessed by IEAVMDOM |
| 92 | (5C) | BITSTRING | 1 | UCMRPYLV | - Reply id get/free method in use: X'00' - local or pre-SP5.1.0 X'01' - sysplex, and >= SP5.1.0             |

Comment

The following SMCS Failure Status bits should be manipulated via Compare & Swap

End of Comment

|    |      |           |   |                          |                                                            |
|----|------|-----------|---|--------------------------|------------------------------------------------------------|
| 93 | (5D) | BITSTRING | 1 | UCMS_FAILURE_STATUS      | SMCS failure status                                        |
|    |      | 1... .... |   | UCMS_SMCS_ACTIVE         | "BIT0" - SMCS is active (ACB has been opened)              |
|    |      | .1.. .... |   | UCMS_SMCS_CLOSING_NORMAL | "BIT1" - SMCS is shutting down normally (HALT NET command) |
|    |      | ..1. .... |   | UCMS_SMCS_CLOSING_QUICK  |                                                            |

# UCM Map

| Offsets |      |            |     |                            |                                                                                                                                |
|---------|------|------------|-----|----------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)                 | Description                                                                                                                    |
|         |      | ...1 ....  |     | UCMS_SMCS_CLOSING_ABNORMAL | "BIT2" - SMCS is shutting down quickly (HALT NET,QUICK command)                                                                |
|         |      | .... 1...  |     | UCMS_SMCS_CLOSING_FAILURE  | "BIT3" - SMCS is shutting down abnormally (HALT NET,CANCEL command). No VTAM functions should be issued except closing the ACB |
|         |      | .... .1..  |     | UCMS_SMCS_FAILED           | "BIT4" - SMCS is shutting down due to a failure in the SMCS code                                                               |
|         |      | .... ..1.  |     | UCMS_SMCS_FAILED_NO_RETRY  | "BIT5" - SMCS has failed during this IPL                                                                                       |
|         |      |            |     | UCMS_SMCS_FAILED_NO_RETRY  | "BIT6" - SMCS has failed and will not be restarted. An IPL is needed to restart SMCS                                           |
| 94      | (5E) | CHARACTER  | 2   | UCMS_VTAM_ACCESS_WAITTIME  | Number of seconds SMCS should wait between attempts to contact VTAM                                                            |
| 96      | (60) | SIGNED     | 4   | UCMOPSEC                   | - ECB used to post the Operations Log task when ENF signal 48 is received                                                      |
| 100     | (64) | CHARACTER  | 8   | UCMVSTKN                   | - STOKEN of the ASCB that is activating the Operations Log                                                                     |
| 108     | (6C) | CHARACTER  | 16  | UCMSTRNM                   | - Operations Log structure name                                                                                                |
| 124     | (7C) | BITSTRING  | 1   | UCMRSV77 (16)              | - RESERVED (MDC382)                                                                                                            |
| 140     | (8C) | SIGNED     | 4   | UCMSAVE4 (16)              | - SAVE AREA FOR IEAVCTSK MDC034                                                                                                |
| 204     | (CC) | SIGNED     | 4   | UCMR9SV                    | - SAVE AREA FOR IEAVMWSV (MDC385)                                                                                              |

Comment

THE FIELDS DEFINED FOLLOWING THIS STATEMENT ARE PRESENT ONLY IN VARIABLE MODE SYSTEMS (OS/VS2)

End of Comment

|     |       |           |   |          |                                                                             |
|-----|-------|-----------|---|----------|-----------------------------------------------------------------------------|
| 208 | (D0)  | DBL WORD  | 8 | (0)      | - DOUBLEWORD BOUNDARY ALIGNMENT                                             |
| 208 | (D0)  | ADDRESS   | 4 | UCMMNTR  | - ADDRESS OF MONITOR ROUTINE MDC003                                         |
| 212 | (D4)  | SIGNED    | 4 | UCMMNECB | - ECB INDICATING MONITOR TPUTS TO DO MDC004                                 |
| 216 | (D8)  | SIGNED    | 4 | UCMTRECB | - ECB INDICATING TPUTTER SHOULD TERMINATE MDC005                            |
| 220 | (DC)  | ADDRESS   | 4 | UCMMQPTR | - POINTER TO FIRST ELEMENT ON MONITOR QUEUE MDC006                          |
| 224 | (E0)  | ADDRESS   | 4 | UCMMQEND | - POINTER TO LAST ELEMENT ON MONITOR QUEUE MDC007                           |
| 228 | (E4)  | ADDRESS   | 4 | UCMMQNXT | - POINTER TO NEXT ELEMENT ON MONITOR QUEUE TO BE PROCESSED MDC008           |
| 232 | (E8)  | ADDRESS   | 4 | UCMMBPTR | - POINTER TO FIRST ELEMENT ON MONITOR MESSAGE BLOCK QUEUE MDC025            |
| 236 | (EC)  | SIGNED    | 1 | UCMRSV90 | - Reserved                                                                  |
| 237 | (ED)  | CHARACTER | 1 | UCMBMPFS | - HARDCOPY MESSAGE SUPPRESSION INDICATOR (MDC475)                           |
| 238 | (EE)  | SIGNED    | 2 | UCMWQLM1 | - IPL-SPECIFIED WQE BUFFER LIMIT MDC011                                     |
| 240 | (F0)  | ADDRESS   | 4 | UCMBFEXT | - ADDRESS OF UCM FIXED EXTENSION BASE (MDC379)                              |
| 244 | (F4)  | ADDRESS   | 4 | UCMRP2AD | - POINTER TO REPLY PROCESSOR, STAGE 2 MDC013                                |
| 248 | (F8)  | SIGNED    | 2 | UCMCHKHG | - Number of elapsed seconds that triggers the ending of unended hung MLWTOs |
| 250 | (FA)  | SIGNED    | 2 | UCMCTID  | - ASID OF COMMUNICATIONS TASK MDC015                                        |
| 252 | (FC)  | ADDRESS   | 4 | UCMMBEND | - POINTER TO LAST ELEMENT ON MONITOR MESSAGE BLOCK QUEUE MDC026             |
| 256 | (100) | ADDRESS   | 4 | UCMWECBH | - POINTER TO START OF WQE ECB CHAIN MDC027                                  |
| 260 | (104) | ADDRESS   | 4 | UCMWECBT | - POINTER TO END OF WQE ECB CHAIN MDC028                                    |
| 264 | (108) | ADDRESS   | 4 | UCMOECBH | - POINTER TO START OF ORE ECB CHAIN MDC029                                  |
| 268 | (10C) | ADDRESS   | 4 | UCMOECBT | - POINTER TO END OF ORE ECB CHAIN MDC030                                    |
| 272 | (110) | SIGNED    | 4 | UCMORECP | - ORE CELLPOOL ID MDC031                                                    |
| 276 | (114) | SIGNED    | 4 | UCMWQECF | - WQE CELLPOOL ID MDC032                                                    |
| 280 | (118) | ADDRESS   | 4 | UCMASCB  | - ASCB ADDRESS OF COMMUNICATIONS TASK MDC036                                |
| 284 | (11C) | ADDRESS   | 4 | UCMSWCH  | - ADDRESS OF CONSOLE SWITCH ROUTINE MDC040                                  |
| 288 | (120) | ADDRESS   | 4 | UCMFRRAD | - ADDRESS OF COMMUNICATIONS TASK'S RECOVERY ROUTINE (IEAVMFRR) MDC047       |

| Offsets |       |            |     |            |                                                                                                      |
|---------|-------|------------|-----|------------|------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim) | Description                                                                                          |
| 292     | (124) | ADDRESS    | 4   | UCMWAKUP   | - ADDRESS OF COMMUNICATIONS TASK'S POST ERROR RECOVERY ROUTINE (IEAVMEST, ALIAS FOR IEAVMFRR) MDC048 |
| 296     | (128) | ADDRESS    | 4   | UCMJES3T   | - ADDRESS OF SUBSYSTEM ASCB (MDC300)                                                                 |
| 300     | (12C) | BITSTRING  | 1   | UCMRSV42   | - RESERVED (MDC033)                                                                                  |
|         |       | 1... ....  |     | UCMRSV43   | "BIT0,,C'X'" - RESERVED MDC033                                                                       |
|         |       | .1.. ....  |     | UCMRSV44   | "BIT1,,C'X'" - RESERVED MDC033                                                                       |
|         |       | ..1. ....  |     | UCMRSV45   | "BIT2,,C'X'" - RESERVED MDC033                                                                       |
|         |       | ...1 ....  |     | UCMRSV46   | "BIT3,,C'X'" - RESERVED MDC033                                                                       |
|         |       | .... 1..   |     | UCMRSV47   | "BIT4,,C'X'" - RESERVED MDC033                                                                       |
|         |       | .... .1..  |     | UCMRSV48   | "BIT5,,C'X'" - RESERVED MDC033                                                                       |
|         |       | .... ..1.  |     | UCMRSV49   | "BIT6,,C'X'" - RESERVED MDC033                                                                       |
|         |       | .... ...1  |     | UCMRSV50   | "BIT7,,C'X'" - RESERVED MDC033                                                                       |
| 301     | (12D) | BITSTRING  | 1   | UCMRSV51   | - RESERVED (MDC033)                                                                                  |
|         |       | 1... ....  |     | UCMRSV52   | "BIT0,,C'X'" - RESERVED MDC033                                                                       |
|         |       | .1.. ....  |     | UCMRSV53   | "BIT1,,C'X'" - RESERVED MDC033                                                                       |
|         |       | ..1. ....  |     | UCMRSV54   | "BIT2,,C'X'" - RESERVED MDC033                                                                       |
|         |       | ...1 ....  |     | UCMRSV55   | "BIT3,,C'X'" - RESERVED MDC033                                                                       |
|         |       | .... 1..   |     | UCMRSV56   | "BIT4,,C'X'" - RESERVED MDC033                                                                       |
|         |       | .... .1..  |     | UCMRSV57   | "BIT5,,C'X'" - RESERVED MDC033                                                                       |
|         |       | .... ..1.  |     | UCMRSV58   | "BIT6,,C'X'" - RESERVED MDC033                                                                       |
|         |       | .... ...1  |     | UCMRSV59   | "BIT7,,C'X'" - RESERVED MDC033                                                                       |
| 302     | (12E) | SIGNED     | 2   | UCMAMRMX   | - MAXIMUM NUMBER OF AMRQ ENTRIES                                                                     |
| 304     | (130) | ADDRESS    | 4   | UCMCONVP   | - ADDRESS OF CONVCON PROCESSOR IEAVG200                                                              |
| 308     | (134) | ADDRESS    | 4   | UCMCMDQR   | - ADDRESS OF COMMAND QUEUER IEAVC700 (MDC399)                                                        |
| 312     | (138) | ADDRESS    | 4   | UCMQSCAN   | - ADDRESS OF QUEUE SCANNER IEAVQ700 (MDC400)                                                         |
| 316     | (13C) | ADDRESS    | 4   | UCMCMDPT   | - POINTER TO COMMANDS TO BE ISSUED BY COMMUNICATIONS TASK (MDC401)                                   |
| 320     | (140) | CHARACTER  | 4   | UCMCBID    | - CONTROL BLOCK ID OF 'UCM' (MDC470)                                                                 |
| 324     | (144) | ADDRESS    | 4   | UCMMPFSN   | - ADDRESS OF THE MPF SCAN ROUTINE (IEAVM700) (MDC475)                                                |
| 328     | (148) | ADDRESS    | 4   | UCMINTCB   | - IEAVN701 TCB ADDRESS                                                                               |
| 332     | (14C) | ADDRESS    | 4   | UCMVWTCB   | - IEEVWAIT TCB ADDRESS                                                                               |
| 336     | (150) | ADDRESS    | 4   | UCMWQADA   | - IEAVH600 AUTO DATA AREA POINTER                                                                    |
| 340     | (154) | SIGNED     | 4   | UCMCQECP   | - CQE CELLPOOL ID                                                                                    |
| 344     | (158) | SIGNED     | 4   | UCMSSIBP   | POINTER TO THE LIFE OF JOB SSIB FOR COMMUNICATION TASK                                               |
| 348     | (15C) | SIGNED     | 2   | UCMBRDST   | - COUNT OF REQUESTS TO HAVE WTOS BROADCAST TO ALL SUBSYSTEMS                                         |
| 350     | (15E) | SIGNED     | 2   | UCMRSV67   | - RESERVED                                                                                           |
| 352     | (160) | SIGNED     | 4   | UCMR0MSG   | - DOM ID of reply id 0 message IEA557A                                                               |
| 356     | (164) | ADDRESS    | 4   | UCMMSRTP   | - ADDRESS OF TEXT SERVICE ROUTINE (IEAVG714)                                                         |
| 360     | (168) | ADDRESS    | 4   | UCMNWTOP   | - POINTER TO IHANWTO (NIP WTO BUFFER)                                                                |
| 364     | (16C) | ADDRESS    | 4   | UCMSBPTR   | - POINTER TO SBC                                                                                     |

| Offsets |      |            |     |            |                                          |
|---------|------|------------|-----|------------|------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                              |
| 0       | (0)  | STRUCTURE  | 0   | UCMEIL     | , - START OF EIL                         |
| 0       | (0)  | ADDRESS    | 1   |            | LENGTH OF EIL (IN WORDS)                 |
| 1       | (1)  | BITSTRING  | 1   | UCMRSV62   | - RESERVED                               |
| 2       | (2)  | SIGNED     | 1   | UCMRTCT    | - ROUTE COUNT                            |
| 3       | (3)  | BITSTRING  | 1   | UCMRSV15   | - RESERVED                               |
| 4       | (4)  | SIGNED     | 4   | UCMRPYL    | LAST ASSIGNED REPLY ID (Local mode only) |
| 8       | (8)  | ADDRESS    | 4   | UCMXECBA   | - ADDRESS OF EXTERNAL INTRPT ECB         |
| 12      | (C)  | ADDRESS    | 4   | UCMAECBA   | - ADDRESS OF ATTENTION INTRPT ECB        |
| 16      | (10) | ADDRESS    | 4   | UCMOECBA   | - ADDRESS OF WTO/R REQUEST ECB           |
| 20      | (14) | ADDRESS    | 4   | UCMDECBA   | - ADDRESS OF DOM REQUEST ECB             |
| 24      | (18) | ADDRESS    | 4   | UCMUECBA   | - Address of User State Event ECB        |

## UCM Map

### Offsets

| Dec                                                                                                                                                                                                                                                                              | Hex  | Type/Value | Len | Name (Dim)   | Description                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-----|--------------|------------------------------------|
| Comment                                                                                                                                                                                                                                                                          |      |            |     |              |                                    |
| <p>THE FOLLOWING PART OF THE EIL IS A LIST OF POINTERS TO I/O ECBS FOR EACH CONSOLE DEVICE DEFINED IN THE SYS1.PARMLIB, CONSOLXX. FOR OS/VS2, THE LIST CONTAINS A MINIMUM OF 2 ENTRIES. THE LIST IS VARIABLE ONLY IN IECEVUCM. THE LAST ENTRY HAS A HIGH-ORDER BYTE OF X'80'</p> |      |            |     |              |                                    |
| End of Comment                                                                                                                                                                                                                                                                   |      |            |     |              |                                    |
| 28                                                                                                                                                                                                                                                                               | (1C) | SIGNED     | 4   | UCMIECBA (0) | - I/O ECB PTR LIST ENTRY MAPPING   |
| 28                                                                                                                                                                                                                                                                               | (1C) | CHARACTER  | 1   | UCMIECBF     | - I/O ECB PTR LIST LAST ENTRY FLAG |
|                                                                                                                                                                                                                                                                                  |      | 1... ..    |     | UCMIECBE     | "BIT0" ECB END OF LIST INDICATOR   |
| 29                                                                                                                                                                                                                                                                               | (1D) | ADDRESS    | 3   | UCMIECBP     | - ADDR OF I/O REQUEST ECB          |

### Offsets

| Dec | Hex  | Type/Value | Len | Name (Dim) | Description                                                              |
|-----|------|------------|-----|------------|--------------------------------------------------------------------------|
| 0   | (0)  | STRUCTURE  | 0   | UCMLIST    | , - START OF DEVICE ENTRY                                                |
| 0   | (0)  | ADDRESS    | 4   | UCMECB     | - I/O COMPLETION ECB OR, FOR 2740, ADDRESS OF I/O COMPLETION ECB         |
|     |      | 1111 1..1  |     | UCMECBF9   | "X'F9" - UCMECB POST CODE - RECEIVE MUST BE ISSUED AGAIN                 |
|     |      | 1111 1..1. |     | UCMECBFA   | "X'FA" - UCMECB POST CODE - I/O IS TO BE RE-ISSUED AGAIN                 |
|     |      | 1111 1.11  |     | UCMECBFB   | "X'FB" - UCMECB POST CODE - PROCESS LOGON                                |
|     |      | 1111 11..  |     | UCMECBFC   | "X'FC" - UCMECB POST CODE - CLEAR CONSOLE                                |
|     |      | 1111 11.1  |     | UCMECBFD   | "X'FD" - UCMECB POST CODE - K V COMMAND WAS ISSUED (MDC450)              |
|     |      | 1111 111.  |     | UCMECBFE   | "X'FE" - UCMECB POST CODE - ROUTED COMMAND (MDC451)                      |
|     |      | 1111 1111  |     | UCMECBFF   | "X'FF" - UCMECB POST CODE - READY TO ROLL (MDC452)                       |
| 4   | (4)  | ADDRESS    | 4   | UCMSBR     | - ADDRESS OF RESIDENT PROCESSOR MODULE MDC020                            |
| 8   | (8)  | ADDRESS    | 4   | UCMDCB     | - ADDRESS OF DCB                                                         |
| 12  | (C)  | ADDRESS    | 4   | UCMU CB    | - UCB NAME (DEV ADDR) OR PTR TO UCB                                      |
| 16  | (10) | CHARACTER  | 8   | UCMNAME    | - PROCESSING MODULE NAME                                                 |
| 24  | (18) | BITSTRING  | 1   | UCMSTS     | - STATUS FLAGS                                                           |
|     |      | 1... ..    |     | UCMAF      | "BIT0" - ATTENTION PENDING                                               |
|     |      | .1.. ....  |     | UCMPF      | "BIT1" - OUTPUT PENDING                                                  |
|     |      | .1. ....   |     | UCMBF      | "BIT2" - DEVICE BUSY                                                     |
|     |      | ...1 ...   |     | UCMCF      | "BIT3" - CLOSE PENDING                                                   |
|     |      | .... 1..   |     | UCMTA      | "BIT4" - OPEN PENDING                                                    |
|     |      | .... .1..  |     | UCMTB      | "BIT5" - DEQ APPROPRIATE OUTPUT QUEUE ENTRIES                            |
|     |      | .... ..1.  |     | UCMEMCLS   | "BIT6" - EMERGENCY CLOSE PENDING (MDC471)                                |
|     |      | .... ...1  |     | UCMTC      | "BIT7" - CONSOLE HAS INLINE WTO                                          |
| 25  | (19) | BITSTRING  | 1   | UCMATR     | - ATTRIBUTE FLAGS                                                        |
|     |      | 1... ....  |     | UCMOF      | "BIT0" - WTO SUPPORT                                                     |
|     |      | .1.. ....  |     | UCMIF      | "BIT1" - ATTENTION SUPPORT                                               |
|     |      | .1. ....   |     | UCMXF      | "BIT2" - EXTERNAL INTERRUPT SUPPORT                                      |
|     |      | ...1 ...   |     | UCMUF      | "BIT3" - DEVICE ACTIVE                                                   |
|     |      | .... 1..   |     | UCMLF      | "BIT4" - LOAD FLAG                                                       |
|     |      | .... .1..  |     | UCMAT04    | "BIT5" - DEVICE STATUS TO CHANGE                                         |
|     |      | .... ..1.  |     | UCMINCLR   | "BIT6" - INTERNAL CLEAR REQUEST                                          |
|     |      | .... ...1  |     | UCMGLBCH   | "BIT7" - INDICATOR TO RECOVERY THAT SYSPLEX GLOBAL DATA HAS BEEN CHANGED |
| 26  | (1A) | SIGNED     | 2   | UCMXA (0)  |                                                                          |
| 26  | (1A) | CHARACTER  | 1   | UCMID      | - UNIQUE ENTRY I.D.                                                      |
| 27  | (1B) | BITSTRING  | 1   | UCMEDEVX   | - DEVICE TYPE INDEX (MDC472)                                             |
|     |      | .... ..11  |     | UCM2540    | "X'03" - 2540/2501/3505/3525 DEVICE                                      |
|     |      | .... .1..  |     | UCM2740    | "X'04" - 2740 DEVICE (MDC472)                                            |



| Offsets                   |      |            |     |            |                                                                                                              |
|---------------------------|------|------------|-----|------------|--------------------------------------------------------------------------------------------------------------|
| Dec                       | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                  |
| Comment                   |      |            |     |            |                                                                                                              |
| X'05' - RESERVED (MDC472) |      |            |     |            |                                                                                                              |
| End of Comment            |      |            |     |            |                                                                                                              |
|                           |      | .... .11.  |     | UCM3211    | "X'06" - 3211/1403 DEVICE                                                                                    |
|                           |      | .... .111  |     | UCM3215    | "X'07" - SUBSYSTEM ALLOCATABLE CONSOLE                                                                       |
|                           |      | .... 1..1  |     | UCM32772   | "X'09" - 3277-2 DEVICE (MDC472)                                                                              |
|                           |      | .... 1.11  |     | UCM32782   | "X'0B" - 3278-2 DEVICE (MDC472)                                                                              |
|                           |      | .... 11..  |     | UCM3782A   | "X'0C" - 3278-2A DEVICE (MDC472)                                                                             |
|                           |      | .... 11.1  |     | UCM32783   | "X'0D" - 3278-3 DEVICE (MDC476)                                                                              |
|                           |      | .... 111.  |     | UCM32784   | "X'0E" - 3278-4 DEVICE (MDC476)                                                                              |
|                           |      | .... 1111  |     | UCM3792A   | "X'0F" - 3279-2A DEVICE (MDC476)                                                                             |
|                           |      | ...1 ....  |     | UCM3792B   | "X'10" - 3279-2B DEVICE OR 24 X 80 DEVICE WHICH SUPPORTS EXTENDED DATA STREAM                                |
|                           |      | ...1 ...1  |     | UCM3793A   | "X'11" - 3279-3A DEVICE (MDC476)                                                                             |
|                           |      | ...1 ..1.  |     | UCM3793B   | "X'12" - 3279-3B DEVICE OR 32 X 80 DEVICE WHICH SUPPORTS EXTENDED DATA STREAM                                |
|                           |      | ...1 ..11  |     | UCM3284    | "X'13" - 3284/3286 DEVICE (MDC476)                                                                           |
|                           |      | ...1 ..1.. |     | UCM3792C   | "X'14" - 3279-2C DEVICE                                                                                      |
|                           |      | ...1 ..1.1 |     | UCM3270X   | "X'15" - 3270-X DEVICE                                                                                       |
|                           |      | ...1 ..11. |     | UCM2732E   | "X'16" - 27 X 132 DEVICE WHICH SUPPORTS EXTENDED DATA STREAM                                                 |
|                           |      | ...1 .111  |     | UCM3180E   | "X'17" - 31 X 80 DEVICE WHICH SUPPORTS EXTENDED DATA STREAM                                                  |
|                           |      | ...1 1...  |     | UCM3160E   | "X'18" - 31 X 160 DEVICE WHICH SUPPORTS EXTENDED DATA STREAM                                                 |
|                           |      | ...1 1..1  |     | UCM4380E   | "X'19" - 43 X 80 DEVICE WHICH SUPPORTS EXTENDED DATA STREAM                                                  |
|                           |      | ...1 1.1.  |     | UCM6280E   | "X'1A" - 62 X 80 DEVICE WHICH SUPPORTS EXTENDED DATA STREAM                                                  |
|                           |      | ...1 1.11  |     | UCM6260E   | "X'1B" - 62 X 160 DEVICE WHICH SUPPORTS EXTENDED DATA STREAM                                                 |
|                           |      | ...1 11..  |     | UCM5006E   | "X'1C" - 50 X 106 DEVICE WHICH SUPPORTS EXTENDED DATA STREAM                                                 |
|                           |      | ...1 11.1  |     | UCMRWCLE   | "X'1D" - SCREEN SIZE INDICATED BY UCMEPROW AND UCMEPCOL AND DEVICE SUPPORTS THE EXTENDED DATA STREAM         |
|                           |      | ...1 111.  |     | UCMRWCLN   | "X'1E" - SCREEN SIZE INDICATED BY UCMEPROW AND UCMEPCOL AND DEVICE DOES NOT SUPPORT THE EXTENDED DATA STREAM |
| 28                        | (1C) | ADDRESS    | 4   | UCMXB      | - ADDRESS OF RDCM(DISPLAY) OR ZERO                                                                           |
| 32                        | (20) | BITSTRING  | 1   | UCMSDS5    | - SDS FLAGS                                                                                                  |
|                           |      | 1... ....  |     | UCMSDS5A   | "BIT0" - MLWTO LINE NEEDED TO KEEP WRITING                                                                   |
|                           |      | .1.. ....  |     | UCMSDS5B   | "BIT1" - INLINE OUTPUT PENDING                                                                               |
|                           |      | ..1. ....  |     | UCMSDS5C   | "BIT2" - OUT-OF-LINE OUTPUT PENDING                                                                          |
|                           |      | ...1 ....  |     | UCMSDS5D   | "BIT3" - K Q ISSUED FOR THIS CONSOLE                                                                         |
|                           |      | .... 1...  |     | UCMRSV30   | "BIT4,,C'X" - RESERVED                                                                                       |
|                           |      | .... ..1.. |     | UCMSDS5F   | "BIT5" - FOR DISPLAY, UCMMLAST VALID                                                                         |
|                           |      | .... ..1.  |     | UCMSDS5G   | "BIT6" - I/O HARDWARE IN OUTPUT-ONLY STATUS                                                                  |
|                           |      | .... ...1  |     | UCMRSV31   | "BIT7,,C'X" - RESERVED                                                                                       |
| 33                        | (21) | BITSTRING  | 1   | UCMDIDCS   | DIDOCs GLOBAL UPDATE FLAGS                                                                                   |
|                           |      | 1... ....  |     | UCMEGCHG   | "BIT0" GLOBAL CHANGES OCCURRED FOR THIS CONSOLE                                                              |
|                           |      | ..1.. .... |     | UCMENGUP   | "BIT1" DO NOT ISSUE A GLOBAL UPDATE FOR THIS CONSOLE (CURRENTLY USED ONLY BY CONSOLE SWITCH)                 |
|                           |      | ...1. .... |     | UCMAHERE   | "BIT2" - ON= CONSOLE IS ACTIVE ON THIS SYSTEM                                                                |
|                           |      | ....1 .... |     | UCMINUSE   | "BIT3" - ON= UCME IS IN USE                                                                                  |
|                           |      | .... 1...  |     | UCMEFAIL   | "BIT4" - Console has failed and console switch was attached                                                  |

# UCM Map

| Offsets            |      |            |     |                           |                                                                                                                                                                                                                                        |
|--------------------|------|------------|-----|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec                | Hex  | Type/Value | Len | Name (Dim)                | Description                                                                                                                                                                                                                            |
| Comment            |      |            |     |                           |                                                                                                                                                                                                                                        |
| EQU X'07' RESERVED |      |            |     |                           |                                                                                                                                                                                                                                        |
| End of Comment     |      |            |     |                           |                                                                                                                                                                                                                                        |
| 34                 | (22) | BITSTRING  | 1   | UCMES_FLAGS               | SNA MCS Flags                                                                                                                                                                                                                          |
|                    |      | 1... ....  |     | UCMES_SMCS                | "BIT0" UCME is for a SMCS Console - Sysplex wide                                                                                                                                                                                       |
|                    |      | .1.. ....  |     | UCMES_ALLOC               | "BIT1" Has been allocated by a system - Sysplex wide                                                                                                                                                                                   |
|                    |      | ..1. ....  |     | UCMES_ACTVE               | "BIT2" SMCS Console is active - Local to system CS Should be used when setting bit                                                                                                                                                     |
|                    |      | ...1 ....  |     | UCMES_CLEANUP_IN_PROGRESS | "BIT3" Cleanup of SMCS UCME is in progress                                                                                                                                                                                             |
|                    |      | .... 1..   |     | UCMES_LOGOFF_IN_PROGRESS  | "BIT4" LOGOFF is running for this console                                                                                                                                                                                              |
|                    |      | .... .1..  |     | UCMES_DEVICE_WAS_BUSY     | "BIT5" IECEVSHT detected that the device was busy. Note: This flag is not cleared when UCMBF is cleared. It is normally only cleared when the I/O routines are SENDing output to an SMCS console (basically, when UCMBF is turned on.) |
| 35                 | (23) | CHARACTER  | 1   | UCMRSV86                  | - RESERVED                                                                                                                                                                                                                             |
| 36                 | (24) | ADDRESS    | 4   | UCMOUTQ                   | - ADDRESS OF CQE QUEUE (MDC301)                                                                                                                                                                                                        |
| 40                 | (28) | BITSTRING  | 2   | UCMAUTH (0)               | - COMMAND CODE AUTHORIZATION                                                                                                                                                                                                           |
| 40                 | (28) | BITSTRING  | 1   | UCMAUTHA                  | - 1ST BYTE OF COMMAND CODE AUTH FLAGS                                                                                                                                                                                                  |
|                    |      | 1... ....  |     | UCMAUTH1                  | "BIT0" - COMMAND GROUP 1 (SYS)                                                                                                                                                                                                         |
|                    |      | .1.. ....  |     | UCMAUTH2                  | "BIT1" - COMMAND GROUP 2 (I/O)                                                                                                                                                                                                         |
|                    |      | ..1. ....  |     | UCMAUTH3                  | "BIT2" - COMMAND GROUP 3 (CONS)                                                                                                                                                                                                        |
|                    |      | ...1 ....  |     | UCMRSV19                  | "BIT3,,C'X'" - RESERVED                                                                                                                                                                                                                |
|                    |      | .... 1..   |     | UCMRSV20                  | "BIT4,,C'X'" - RESERVED                                                                                                                                                                                                                |
|                    |      | .... .1..  |     | UCMRSV21                  | "BIT5,,C'X'" - RESERVED                                                                                                                                                                                                                |
|                    |      | .... .1..  |     | UCMRSV22                  | "BIT6,,C'X'" - RESERVED                                                                                                                                                                                                                |
|                    |      | .... .1..  |     | UCMRSV23                  | "BIT7,,C'X'" - RESERVED                                                                                                                                                                                                                |
| 41                 | (29) | BITSTRING  | 1   | UCMAUTHB                  | - 2ND BYTE OF COMMAND CODE AUTH FLAGS                                                                                                                                                                                                  |
| 42                 | (2A) | BITSTRING  | 2   | UCMDISP (0)               | - DISPOSITION FLAGS (2 BYTES)                                                                                                                                                                                                          |
| 42                 | (2A) | BITSTRING  | 1   | UCMDISP1                  | - FIRST BYTE - DISPOSITION FLAGS                                                                                                                                                                                                       |
|                    |      | 1... ....  |     | UCMDISPA                  | "BIT0" - MASTER CONSOLE                                                                                                                                                                                                                |
|                    |      | .1.. ....  |     | UCMDISPB                  | "BIT1" - HARDCOPY DEVICE/CONSOLE                                                                                                                                                                                                       |
|                    |      | ..1. ....  |     | UCMDISPC                  | "BIT2" - DISPLAY CONSOLE                                                                                                                                                                                                               |
|                    |      | ...1 ....  |     | UCMDISPD                  | "BIT3" - OUTPUT ONLY                                                                                                                                                                                                                   |
|                    |      | .... 1..   |     | UCMDISPE                  | "BIT4" - CONSOLE HAS FULL I/O CAPABILITY                                                                                                                                                                                               |
|                    |      | .... .1..  |     | UCMDISPF                  | "BIT5" - CONSOLE IS MESSAGE STREAM ONLY                                                                                                                                                                                                |
|                    |      | .... .1..  |     | UCMDISPG                  | "BIT6" - CONSOLE IS STATUS DISPLAY ONLY                                                                                                                                                                                                |
|                    |      | .... .1..  |     | UCMDISPH                  | "BIT7" - INTEGRATED OPERATOR'S CONSOLE (OS/V52)                                                                                                                                                                                        |
|                    |      |            |     |                           | MDC041                                                                                                                                                                                                                                 |
| 43                 | (2B) | BITSTRING  | 1   | UCMDISP2                  | - SECOND BYTE - DISPOSITION FLAGS                                                                                                                                                                                                      |
|                    |      | 1... ....  |     | UCMDISPI                  | "BIT0" - DISPLAY TIME                                                                                                                                                                                                                  |
|                    |      | .1.. ....  |     | UCMDISPJ                  | "BIT1" - DISPLAY JOB NAME                                                                                                                                                                                                              |
|                    |      | ..1. ....  |     | UCMDISPK                  | "BIT2" - SUBSYSTEM ALLOCATABLE INDICATOR                                                                                                                                                                                               |
|                    |      | ...1 ....  |     | UCMDISPL                  | "BIT3" - CONSOLE IS DEDICATED TO A SYSTEM COMPONENT (SUBSYSTEM)                                                                                                                                                                        |
|                    |      | .... 1..   |     | UCMDISPM                  | "BIT4" - CONSOLE IS TO BE CONSIDERED A PSEUDO MASTER CONSOLE                                                                                                                                                                           |
|                    |      | .... .1..  |     | UCMDISPN                  | "BIT5" - DISPLAY SYSTEM NAME                                                                                                                                                                                                           |
|                    |      | .... .1..  |     | UCMDISPX                  | "BIT6" - NO SYSTEM NAME AND JOB NAME DISPLAYED                                                                                                                                                                                         |
| 44                 | (2C) | ADDRESS    | 4   | UCMALTEN                  | - ADDRESS OF ALTERNATE INPUT UCM ENTRY                                                                                                                                                                                                 |
| 48                 | (30) | ADDRESS    | 4   | UCMOAOEN                  | - ADDRESS OF OUTPUT/ALTERNATE OUTPUT UCM ENTRY                                                                                                                                                                                         |
| 52                 | (34) | ADDRESS    | 4   | UCMWLAST                  | - ADDRESS OF LAST CQE SERVICED IN OUTPUT QUEUE (MDC397)                                                                                                                                                                                |
| 56                 | (38) | ADDRESS    | 4   | UCMCOMPC                  | - ADDRESS OF OTHER DEVICE ENTRY IF THIS IS A COMPOSITE CONSOLE                                                                                                                                                                         |
| 60                 | (3C) | BITSTRING  | 2   | UCMMSG (0)                | - MESSAGE FLAGS                                                                                                                                                                                                                        |
| 60                 | (3C) | BITSTRING  | 1   | UCMMSG1                   | - FIRST BYTE - MESSAGE FLAGS                                                                                                                                                                                                           |
|                    |      | 1... ....  |     | UCMMSGA                   | "BIT0" - 'MONITOR JOB NAMES' REQUESTED                                                                                                                                                                                                 |
|                    |      | .1.. ....  |     | UCMMSGB                   | "BIT1" - 'MONITOR STATUS' REQUESTED                                                                                                                                                                                                    |

| Offsets |      |            |     |            |                                                                |
|---------|------|------------|-----|------------|----------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                    |
|         |      | ..1. ....  |     | UCMRSV70   | "BIT2,,C'X'" - RESERVED (MDC377)                               |
|         |      | ...1 ....  |     | UCMMSGD    | "BIT3" - RESQID REQUEST                                        |
|         |      | .... 1...  |     | UCMRSV71   | "BIT4,,C'X'" - RESERVED (MDC378)                               |
|         |      | .... .1..  |     | UCMMSGF    | "BIT5" - MONITOR SESSIONS                                      |
|         |      | .... ..1.  |     | UCMMSGG    | "BIT6" - MONITOR WITH TIME                                     |
|         |      | .... ...1  |     | UCMRSV27   | "BIT7,,C'X'" - RESERVED                                        |
| 61      | (3D) | BITSTRING  | 1   | UCMMSG2    | - SECOND BYTE - MESSAGE FLAGS                                  |
| 62      | (3E) | BITSTRING  | 1   | UCMXOR     | - XOR MASK - SET TO ZERO                                       |
| 63      | (3F) | BITSTRING  | 1   | UCMDEVC    | - DEVICE CONTROL FLAGS                                         |
|         |      | 1... ....  |     | UCMDEVA    | "BIT0" - FULL SCREEN ON DISPLAY CONSOLES                       |
|         |      | .1.. ....  |     | UCMDEVB    | "BIT1" - 'PREPARE' COMMAND ISSUED                              |
|         |      | ..1. ....  |     | UCMDEVCC   | "BIT2" - CONSOLE TESTED INDICATOR                              |
|         |      | ...1 ....  |     | UCMDEVD    | "BIT3" - DOM ISSUED                                            |
|         |      | .... 1...  |     | UCMDEVE    | "BIT4" - I/O COMPLETE                                          |
|         |      | .... .1..  |     | UCMDEVF    | "BIT5" - DCM MODIFIED FOR DOM                                  |
|         |      | .... ..1.  |     | UCMDEVG    | "BIT6" - HIO ISSUED ON THE 2740                                |
|         |      | .... ...1  |     | UCMVHRSN   | "BIT7" - CONSOLE I/O PATH AFFECTED (OS/V52) (MDC049)<br>YM2236 |
| 64      | (40) | ADDRESS    | 4   | UCMMLAST   | - ADDRESS OF LAST MINOR WQE HANDLED                            |
| 68      | (44) | ADDRESS    | 4   | UCMRCT     | - POINTER TO RCT                                               |
| 72      | (48) | ADDRESS    | 4   | UCMFEXTP   | - ADDRESS OF UCME FIXED EXTENSION (MDC332)                     |
| 76      | (4C) | ADDRESS    | 4   | UCMVMPPL   | - Address of VARY Message Parm List                            |
| 76      | (4C) | X'50'      | 0   | UCMESIZE   | **UCMLIST" - LENGTH (BYTES) OF INDIV DEVICE ENTRY              |
| 76      | (4C) | X'0'       | 0   | UCMEND     | **UCMESIZE" - ADDR OF LAST DEVICE ENTRY                        |

| Offsets |     |            |     |              |                                                                                          |
|---------|-----|------------|-----|--------------|------------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim)   | Description                                                                              |
| 0       | (0) | STRUCTURE  | 0   | UCMFEXTA     | , - UCM FIXED EXTENSION BASE (MDC304)                                                    |
| 0       | (0) | CHARACTER  | 4   | UCMFUCMF     | - ACRONYM IN EBCDIC -UCMF- (MDC305)                                                      |
| 4       | (4) | ADDRESS    | 4   | UCMFPPTR     | - ADDRESS OF UCM PAGEABLE EXTENSION BASE (MDC306)                                        |
| 8       | (8) | CHARACTER  | 8   | UCMFMGFS (0) | - FLAGS FOR FIXED EXTENSION BASE (MDC307)                                                |
| 8       | (8) | BITSTRING  | 1   | UCMFFLG1     | - MESSAGE FLAGS (MDC308)                                                                 |
|         |     | 1... ....  |     | UCMFMSGE     | "BIT0" - WQE SHORTAGE MESSAGE ISSUED (MDC309)                                            |
|         |     | .1.. ....  |     | UCMFMSGA     | "BIT1" - WQE CRITICAL MESSAGE ISSUED (MDC310)                                            |
|         |     | ..1. ....  |     | UCMFMSGN     | "BIT2" - NO WQE THRESHOLD MESSAGES SHOULD BE ISSUED (MDC311)                             |
|         |     | ...1 ....  |     | UCMFMMSG1    | "BIT3" - ACTION MESSAGE RETENTION BUFFER SHORTAGE MESSAGE ISSUED (MDC402)                |
|         |     | .... 1...  |     | UCMFMMSG2    | "BIT4" - ACTION MESSAGE RETENTION SEVERE BUFFER SHORTAGE MESSAGE ISSUED (MDC403)         |
|         |     | .... .1..  |     | UCMFMMSG3    | "BIT5" - ACTION MESSAGE RETENTION BUFFER EXTENSION FAILED MESSAGE ISSUED (MDC404)        |
|         |     | .... ..1.  |     | UCMFMMSG4    | "BIT6" - ISSUE ACTION MESSAGE RETENTION BUFFER EXTENSION FAILED MESSAGE (MDC405)         |
|         |     | .... ...1  |     | UCMFMMSG5    | "BIT7" - ISSUE DOM FOR ACTION MESSAGE RETENTION BUFFER EXTENSION FAILED MESSAGE (MDC406) |
| 9       | (9) | BITSTRING  | 1   | UCMFFLG2     | - MESSAGE FLAGS (MDC313)                                                                 |
|         |     | 1... ....  |     | UCMFMMSG6    | "BIT0" - ACTION MESSAGE RETENTION FACILITY RESTART FAILED MESSAGE ISSUED (MDC453)        |
|         |     | .1.. ....  |     | UCMFMMSG7    | "BIT1" - MPF FAILED MESSAGE SHOULD BE ISSUED (MDC475)                                    |
|         |     | ..1. ....  |     | UCMFMMSG8    | "BIT2" - MPF FAILED MESSAGE HAS BEEN ISSUED (MDC475)                                     |
|         |     | ...1 ....  |     | UCMFMMSG9    | "BIT3" - WTOR SHORTAGE MESSAGE ISSUED                                                    |
|         |     | .... 1...  |     | UCMFMMSGB    | "BIT4" - WTOR CRITICAL MESSAGE ISSUED                                                    |
|         |     | .... .1..  |     | UCMFUMPF     | "BIT5" - CALL MPF FOR ALL MESSAGES                                                       |
|         |     | .... ..1.  |     | UCMFMMSGC    | "BIT6" - INSUFFICIENT AMRF STORAGE MSG ISSUED                                            |
|         |     | .... ...1  |     | UCMNHOLD     | "BIT7" - IF ON, DO NOT HOLD MESSAGES FROM BEING SENT TO OTHER SYSTEMS IN SYSPLEX         |
| 10      | (A) | BITSTRING  | 1   | UCMFFLG3     | - QUEUE SCANNED FLAGS FOR ACTION MESSAGE RETENTION FACILITY (MDC454)                     |

# UCM Map

| Offsets |      |            |     |              |                                                                                                                                      |
|---------|------|------------|-----|--------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                                          |
|         |      | 1... ....  |     | UCMFRQSD     | "BIT0" - RETAINED MESSAGE QUEUE SCANNED (MDC455)                                                                                     |
|         |      | .1.. ....  |     | UCMFIQSD     | "BIT1" - RETAINED IMMEDIATE ACTION MESSAGE QUEUE SCANNED (MDC456)                                                                    |
|         |      | ..1. ....  |     | UCMFEQSD     | "BIT2" - RETAINED EVENTUAL ACTION MESSAGE QUEUE SCANNED (MDC457)                                                                     |
|         |      | ...1 ....  |     | UCMFCQSD     | "BIT3" - RETAINED CRITICAL EVENTUAL ACTION MESSAGE QUEUE SCANNED                                                                     |
|         |      | .... 1...  |     | UCMFRSVD     | "BIT4" - RESERVED                                                                                                                    |
|         |      | .... .1..  |     | UCMFRSVE     | "BIT5" - RESERVED                                                                                                                    |
|         |      | .... ..1.  |     | UCMFRSVF     | "BIT6" - RESERVED                                                                                                                    |
|         |      | .... ...1  |     | UCMFRSVG     | "BIT7" - RESERVED                                                                                                                    |
| 11      | (B)  | BITSTRING  | 1   | UCMFMISC     | - MISCELLANEOUS FLAGS                                                                                                                |
|         |      | 1... ....  |     | UCMFWRID     | "BIT0" - DOM IDS HAVE WRAPPED                                                                                                        |
|         |      | .1.. ....  |     | UCMFCMIN     | "BIT1" - MINOR LINE ADDED                                                                                                            |
|         |      | ..1. ....  |     | UCMFRSVH     | "BIT2" - RESERVED                                                                                                                    |
|         |      | ...1 ....  |     | UCMFHOLD     | "BIT3" - HOLDMODE SPECIFIED                                                                                                          |
|         |      | .... 1...  |     | UCMF4RSV     | "BIT4" - RESERVED                                                                                                                    |
|         |      | .... .1..  |     | UCMFLOGR     | "BIT5" - LOGON(REQUIRED) SPECIFIED IN CONSOLXX                                                                                       |
|         |      | .... ..1.  |     | UCMFLOGA     | "BIT6" - LOGON(AUTO) SPECIFIED IN CONSOLXX                                                                                           |
|         |      | .... ...1  |     | UCMFRACT     | "BIT7" - RACF IS ACTIVE                                                                                                              |
| 12      | (C)  | ADDRESS    | 4   | UCMFUTOK     | - POINTER TO DEFAULT UTOKEN                                                                                                          |
| 16      | (10) | SIGNED     | 2   | UCMF60WQ     | - 60% OF CURRENT WQE LIMIT                                                                                                           |
| 18      | (12) | SIGNED     | 2   | UCMF80WQ     | - 80% OF CURRENT WQE LIMIT                                                                                                           |
| 20      | (14) | SIGNED     | 2   | UCMF95WQ     | - 95% OF CURRENT WQE LIMIT                                                                                                           |
| 22      | (16) | SIGNED     | 2   | UCMF60OR     | - 60% SPECIFIED ORE LIMIT                                                                                                            |
| 24      | (18) | SIGNED     | 2   | UCMF80OR     | - 80% SPECIFIED ORE LIMIT                                                                                                            |
| 26      | (1A) | BITSTRING  | 1   | UCMFMIS2     | - MISCELLANEOUS FLAG BYTE 2                                                                                                          |
|         |      | 1... ....  |     | UCMFPCOK     | "BIT0" - CONSOLES PC TABLE HAS BEEN SETUP                                                                                            |
|         |      | .1.. ....  |     | UCMFUD1      | "BIT1" - Message loss exists somewhere in the sysplex                                                                                |
|         |      | ..1. ....  |     | UCMFHCUD     | "BIT2" - Hardcopy receives UD messages                                                                                               |
|         |      | ...1 ....  |     | UCMFMJSS     | "BIT3" - Message loss exists somewhere in the sysplex                                                                                |
|         |      | .... 1...  |     | UCMFSYNL     | "BIT4" - There are systems that have no MCS consoles attached to them which can receive SYNCH messages                               |
|         |      | .... .1..  |     | UCMFMIX      | "BIT5" - SP 4.1.0 system exists in the plex                                                                                          |
|         |      | .... ..1.  |     | UCMFPCMP     | "BIT6" - Footprint indicating that the scheduling by DCCF of the SRB for COMM Task has not completed yet                             |
|         |      | .... ...1  |     | UCMF440      | "BIT7" - Indicates there are only 5.1 and above systems in a sysplex                                                                 |
| 27      | (1B) | BITSTRING  | 1   | UCMFSNL      | - SYSTEM NAME LENGTH                                                                                                                 |
| 28      | (1C) | CHARACTER  | 4   | UCMFECBL (0) | - ECB LIST THAT IEAVMQWR WAITS ON IN A NO-CONSOLES CONDITION (MDC334)                                                                |
| 28      | (1C) | ADDRESS    | 4   | UCMFXECB (0) | - ADDR OF EXTERNAL INTERRUPT ECB                                                                                                     |
| 28      | (1C) | BITSTRING  | 1   | UCMFXBYT     | - HIGH-ORDER BYTE OF UCMFXECB                                                                                                        |
|         |      | 1... ....  |     | UCMFXB0      | "BIT0" - END OF LIST INDICATOR (MDC338)                                                                                              |
| 29      | (1D) | ADDRESS    | 3   | UCMFXAD      | - ADDR OF EXTERNAL INTERRUPT ECB                                                                                                     |
| 32      | (20) | ADDRESS    | 4   | UCMFWQES     | - LAST SERVICED WQE POINTER                                                                                                          |
| 36      | (24) | ADDRESS    | 4   | UCMFATCN     | - ADDRESS OF UCME CANDIDATE FOR NEW MASTER CONSOLE (ATTENTION WAS GENERATED ON THIS DEVICE WHEN IN A NO-CONSOLES CONDITION) (MDC340) |
| 40      | (28) | ADDRESS    | 4   | UCMFE1ST     | - ADDRESS OF FIRST UCME FIXED EXTENSION (MDC341)                                                                                     |
| 44      | (2C) | SIGNED     | 4   | UCMFELEN     | - LENGTH OF A UCME FIXED EXTENSION (MDC342)                                                                                          |
| 48      | (30) | ADDRESS    | 4   | UCMFE1ST     | - ADDRESS OF LAST UCME FIXED EXTENSION (MDC343)                                                                                      |
| 52      | (34) | CHARACTER  | 12  | UCMFAMRP (0) | - POINTERS TO ACTION MESSAGE RETENTION QUEUES (MDC407)                                                                               |
| 52      | (34) | ADDRESS    | 4   | UCMFAMRQ     | - POINTER TO RETAINED MESSAGE QUEUE (MDC408)                                                                                         |
| 56      | (38) | ADDRESS    | 4   | UCMFIAMQ     | - POINTER TO RETAINED IMMEDIATE ACTION MESSAGE QUEUE (MDC409)                                                                        |
| 60      | (3C) | ADDRESS    | 4   | UCMFEAMQ     | - POINTER TO RETAINED EVENTUAL ACTION MESSAGE QUEUE (MDC410)                                                                         |
| 64      | (40) | SIGNED     | 4   | UCMFRMCP     | - CELLPOOL ID OF ACTION MESSAGE RETENTION QUEUE (MDC411)                                                                             |
| 68      | (44) | SIGNED     | 2   | UCMFAMRN     | - NUMBER OF AMRQ ENTRIES (MDC412)                                                                                                    |
| 70      | (46) | SIGNED     | 2   | UCMF75MR     | - 75% OF MAXIMUM AMRQ ENTRIES (MDC413)                                                                                               |
| 72      | (48) | SIGNED     | 2   | UCMF80MR     | - 80% OF MAXIMUM AMRQ ENTRIES (MDC414)                                                                                               |

| Offsets |       |            |     |            |                                                                                                 |
|---------|-------|------------|-----|------------|-------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim) | Description                                                                                     |
| 74      | (4A)  | SIGNED     | 2   | UCMF95MR   | - 95% OF MAXIMUM AMRQ ENTRIES (MDC415)                                                          |
| 76      | (4C)  | SIGNED     | 2   | UCMFIBSZ   | - INITIAL BUFFER SIZE FOR ACTION MESSAGE RETENTION BUFFER (MDC416)                              |
| 78      | (4E)  | SIGNED     | 1   | UCMFAMRS   | - SUBPOOL OF ACTION MESSAGE RETENTION BUFFER (MDC417)                                           |
| 79      | (4F)  | SIGNED     | 1   | UCMFEBSZ   | - EXTENT SIZE FOR ACTION MESSAGE RETENTION BUFFER (MDC418)                                      |
| 80      | (50)  | ADDRESS    | 4   | UCMFSAVP   | - ADDRESS OF 72-BYTE SAVE AREA (MDC424)                                                         |
| 84      | (54)  | ADDRESS    | 4   | UCMFMPPF   | - ADDRESS OF MPF TABLE (MDC475)                                                                 |
| 88      | (58)  | ADDRESS    | 4   | UCMFCLRA   | - ADDRESS OF COLOR/HIGHLIGHTING ATTRIBUTE TABLE                                                 |
| 92      | (5C)  | ADDRESS    | 4   | UCMGENXP   | - ADDRESS OF GENERAL WTO USER EXIT IEAVMXIT TABLE (GENX)                                        |
| 96      | (60)  | ADDRESS    | 4   | UCMFCAMQ   | - POINTER TO THE RETAINED CRITICAL EVENTUAL ACTION MESSAGE QUEUE                                |
| 100     | (64)  | CHARACTER  | 8   | UCMFSYNM   | - CURRENT SYSTEM NAME                                                                           |
| 108     | (6C)  | CHARACTER  | 1   | UCMFSYID   | - CURRENT SYSTEM ID                                                                             |
| 109     | (6D)  | CHARACTER  | 3   | UCMFSVDM   | - SAVED DOM ID                                                                                  |
| 112     | (70)  | CHARACTER  | 4   | UCMFDSQN   | - DISPLAY SEQUENCE NUMBER (USED FOR D R AND K C ONLY)                                           |
| 116     | (74)  | BITSTRING  | 16  | UCMFHCRT   | - ROUTING CODES FOR SYSLOG                                                                      |
| 132     | (84)  | ADDRESS    | 4   | UCMF043D   | - ADDRESS OF SVC 34 LOAD MODULE (IEE0403D) IN COMM TASK STORAGE ONLY                            |
| 136     | (88)  | ADDRESS    | 4   | UCMFLSTN   | - ADDRESS OF COMM TASK ENF LISTEN EXIT ROUTINE (IEAVG600)                                       |
| 140     | (8C)  | ADDRESS    | 4   | UCMFHCDA   | - ADDRESS OF IEAVM601 AUTO DATA AREA                                                            |
| 144     | (90)  | ADDRESS    | 4   | UCMFSUBA   | - POINTER TO IEECSSUB (DIDOCs ROLL MODE TIMER FUNCTIONS)                                        |
| 148     | (94)  | CHARACTER  | 1   | UCMFCMDL   | - MULTIPLE COMMAND DELIMITER                                                                    |
| 149     | (95)  | BITSTRING  | 1   | UCMFMIS3   | - MISCELLANEOUS FLAG BYTE 3                                                                     |
|         |       | 1... ....  |     | UCMF65BL   | "BIT0" - 65% OF BELOW WQES USED                                                                 |
|         |       | .1... .... |     | UCMF85BL   | "BIT1" - 85% OF BELOW WQES USED                                                                 |
| 150     | (96)  | CHARACTER  | 2   | UCMFRSV4   | - RESERVED                                                                                      |
| 152     | (98)  | BITSTRING  | 16  | UCMFHPRT   | - ROUTING CODES FOR A PRINTER CONSOLE                                                           |
| 168     | (A8)  | ADDRESS    | 4   | UCMFPOMR   | - POINTER TO OPERATOR MGMT ROUTINE                                                              |
| 172     | (AC)  | ADDRESS    | 4   | UCMFCMTP   | - ADDRESS OF THE MPF COMMAND TABLE                                                              |
| 176     | (B0)  | ADDRESS    | 4   | UCMCPFTA   | - ADDRESS OF THE CPF TABLE                                                                      |
| 180     | (B4)  | ADDRESS    | 4   | UCMFSMTA   | - ADDRESS OF THE SYSMCS MEMBER TABLE (SMT)                                                      |
| 184     | (B8)  | ADDRESS    | 4   | UCMFCSTP   | - ADDRESS OF CONSOLE STOKEN TABLE                                                               |
| 188     | (BC)  | ADDRESS    | 4   | UCMFCLTP   | - ADDRESS OF CONSOLE LOOKUP TABLE                                                               |
| 192     | (C0)  | ADDRESS    | 4   | UCMFMITP   | - ADDRESS OF MIGRATION ID TABLE                                                                 |
| 196     | (C4)  | ADDRESS    | 4   | UCMFCCEP   | - ADDRESS OF ARRAY OF CCE POINTERS                                                              |
| 200     | (C8)  | ADDRESS    | 4   | UCMFCLTS   | - ADDRESS OF CLTSCAN PROCESSOR                                                                  |
| 204     | (CC)  | ADDRESS    | 4   | UCMFOMD    | - ADDRESS OF OMD (IEAVG102)                                                                     |
| 208     | (D0)  | ADDRESS    | 4   | UCMFOLRP   | - ADDRESS OF IEAVM612 PARM LIST & WORK AREA                                                     |
| 212     | (D4)  | ADDRESS    | 4   | UCMFRCT    | - ADDRESS OF ROUTE CODE TABLE                                                                   |
| 216     | (D8)  | ADDRESS    | 4   | UCMFRCD A  | - ADDRESS OF IEAVM603 AUTO DATA AREA                                                            |
| 220     | (DC)  | ADDRESS    | 4   | UCMFWSPV   | - ADDRESS OF IEAVMWSV WORK AREA                                                                 |
| 224     | (E0)  | CHARACTER  | 8   | UCMFCSYN   | - NAME OF SYSTEM WHERE CANDIDATE CONSOLE IS SELECTED                                            |
| 232     | (E8)  | ADDRESS    | 4   | UCMFRXAD   | - ADDRESS OF ESTAEX ENTRY POINT FOR COMM TASK'S RECOVERY ROUTINE (IEAVMFRX, ALIAS FOR IEAVMFRR) |
| 236     | (EC)  | ADDRESS    | 4   | UCMFCLAD   | - CLEAN UP ROUTINE ADDRESS                                                                      |
| 240     | (F0)  | ADDRESS    | 4   | UCMFDMPA   | - DUMP EXIT ROUTINE ADDRESS                                                                     |
| 244     | (F4)  | ADDRESS    | 4   | UCMFRCTM   | - POINTER TO AGGREGATE RCTM BLOCK                                                               |
| 248     | (F8)  | CHARACTER  | 4   | UCMFRSVI   | - RESERVED                                                                                      |
| 252     | (FC)  | ADDRESS    | 4   | UCMFUDTK   | - USER'S UNDEFINED UTOKEN                                                                       |
| 256     | (100) | ADDRESS    | 4   | UCMFTSWA   | - IEAVG714 WORK AREA ADDRESS                                                                    |
| 260     | (104) | ADDRESS    | 4   | UCMFWQEC   | - ADDRESS OF WQE COUNT TABLE                                                                    |
| 264     | (108) | ADDRESS    | 4   | UCMFWCTA   | - ADDRESS OF WQE AND CQE INFORMATION TABLE                                                      |
| 268     | (10C) | ADDRESS    | 4   | UCMFST2A   | - ADDRESS OF DYNAMIC AREA FOR IEAVSTA2                                                          |
| 272     | (110) | ADDRESS    | 4   | UCMF606    | - Address of IEAVG606 - initialized by IEAVVINT                                                 |
| 276     | (114) | ADDRESS    | 4   | UCMFPUCM   | - Address of the UCME to be posted when SRB routine IEAVG606 is scheduled by DCCF               |

# UCM Map

| Offsets |       |            |     |                |                                                                                           |
|---------|-------|------------|-----|----------------|-------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim)     | Description                                                                               |
| 280     | (118) | CHARACTER  | 44  | UCMFSRB        | - SRB used by DCCF to schedule the COMM Task address space                                |
| 324     | (144) | ADDRESS    | 4   | UCMFCWKP       | - ADDRESS OF 12-BYTE COMMON AREA FOR ALL WTO USER EXITS                                   |
| 328     | (148) | ADDRESS    | 4   | UCMFACTCA      | - Address of CTRACE Control area                                                          |
| 332     | (14C) | ADDRESS    | 4   | UCMFCSAA       | - ADDRESS OF TEMPORARY IEAVMWTO WORK AREA IN CSA                                          |
| 336     | (150) | SIGNED     | 4   | UCMFCSAL       | - LENGTH OF TEMPORARY IEAVMWTO WORK AREA IN CSA                                           |
| 340     | (154) | ADDRESS    | 4   | UCMFS_TERME    | SMCS Termination ECB. Posted when VTAM is terminating                                     |
| 344     | (158) | ADDRESS    | 4   | UCMFS_CPME     | SMCS Cell Pool Maintenance ECB. Posted when maintenance on the IEESMCS cellpool is needed |
| 348     | (15C) | ADDRESS    | 4   | UCMFS_HT_ECB   | SMCS Hang Timer Subtask ECB                                                               |
| 352     | (160) | ADDRESS    | 4   | UCMFS_HT_TERME | SMCS Hang Timer Subtask Termination ECB                                                   |
| 356     | (164) | CHARACTER  | 8   |                | Reserved                                                                                  |

Comment

SMCS POST CODES FOR UCMFS\_TERME AND UCMFS\_CPME.  
 EQU X'000000FF' Reserved for  
 internal SMCS  
 start process

End of Comment

|      |      |  |  |                               |                                                                       |
|------|------|--|--|-------------------------------|-----------------------------------------------------------------------|
| 1111 | 111. |  |  | UCMFS_TERME_TPEND_HALT        | "X'000000FE"                                                          |
| 1111 | 11.1 |  |  | UCMFS_TERME_TPEND_HALT_QUICK  | "X'000000FD"                                                          |
| 1111 | 11.. |  |  | UCMFS_TERME_TPEND_HALT_CANCEL | "X'000000FC"                                                          |
| 1111 | 1.11 |  |  | UCMFS_TERME_OK_2_CLOSE        | "X'000000FB"                                                          |
| 1111 | 1.1. |  |  | UCMFS_CPME_EXPAND_CELL_POOL   | "X'000000FA"                                                          |
| 1111 | 1..1 |  |  | UCMFS_CPME_CONTRACT_CELL_POOL | "X'000000F9" EQU X'000000F8' Reserved for internal Hang Timer process |

| Offsets |      |            |     |            |                                               |
|---------|------|------------|-----|------------|-----------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                   |
| 0       | (0)  | STRUCTURE  | 0   | UCMFSAVE   | , - UCM FIXED EXTENSION SAVE AREA (MDC425)    |
| 0       | (0)  | SIGNED     | 4   | UCMFSV01   | - WORD 1 (MDC426)                             |
| 4       | (4)  | SIGNED     | 4   | UCMFSV02   | - WORD 2 (MDC427)                             |
| 8       | (8)  | SIGNED     | 4   | UCMFSV03   | - WORD 3 (MDC428)                             |
| 12      | (C)  | SIGNED     | 4   | UCMFSV04   | - WORD 4 (MDC429)                             |
| 16      | (10) | SIGNED     | 4   | UCMFSV05   | - WORD 5 (MDC430)                             |
| 20      | (14) | SIGNED     | 4   | UCMFSV06   | - WORD 6 (MDC431)                             |
| 24      | (18) | SIGNED     | 4   | UCMFSV07   | - WORD 7 (MDC432)                             |
| 28      | (1C) | SIGNED     | 4   | UCMFSV08   | - WORD 8 (MDC433)                             |
| 32      | (20) | SIGNED     | 4   | UCMFSV09   | - WORD 9 (MDC434)                             |
| 36      | (24) | SIGNED     | 4   | UCMFSV10   | - WORD 10 (MDC435)                            |
| 40      | (28) | SIGNED     | 4   | UCMFSV11   | - WORD 11 (MDC436)                            |
| 44      | (2C) | SIGNED     | 4   | UCMFSV12   | - WORD 12 (MDC437)                            |
| 48      | (30) | SIGNED     | 4   | UCMFSV13   | - WORD 13 (MDC438)                            |
| 52      | (34) | SIGNED     | 4   | UCMFSV14   | - WORD 14 (MDC439)                            |
| 56      | (38) | SIGNED     | 4   | UCMFSV15   | - WORD 15 (MDC440)                            |
| 60      | (3C) | SIGNED     | 4   | UCMFSV16   | - WORD 16 (MDC441)                            |
| 64      | (40) | SIGNED     | 4   | UCMFSV17   | - WORD 17 (MDC442)                            |
| 68      | (44) | SIGNED     | 4   | UCMFSV18   | - WORD 18 (MDC443)                            |
| 68      | (44) | X'48'      | 0   | UCMFSVLN   | ** - UCMFSAVE" - LENGTH OF SAVE AREA (MDC444) |

| Offsets |      |            |     |             |                                                                            |
|---------|------|------------|-----|-------------|----------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)  | Description                                                                |
| 0       | (0)  | STRUCTURE  | 0   | UCMPEXTA    | , - UCM PAGEABLE EXTENSION BASE (MDC319)                                   |
| 0       | (0)  | CHARACTER  | 4   | UCMPUCMP    | - ACRONYM IN EBCDIC -UCMP- (MDC320)                                        |
| 4       | (4)  | CHARACTER  | 36  | UCMPDM1 (0) | - DOM ID'S (MDC475)                                                        |
| 4       | (4)  | SIGNED     | 4   | UCMPWQE     | - WQE CRITICAL MESSAGE DOM ID (MDC322)                                     |
| 8       | (8)  | SIGNED     | 4   | UCMPNMCC    | - NO MASTER CONSOLE CONDITION MESSAGE DOM ID (MDC323)                      |
| 12      | (C)  | SIGNED     | 4   | UCMPNCC     | - NO-CONSOLE CONDITION MESSAGE DOM ID (MDC344)                             |
| 16      | (10) | SIGNED     | 4   | UCMPWQES    | - WQE SHORTAGE MESSAGE DOM ID (MDC396)                                     |
| 20      | (14) | SIGNED     | 4   | UCMPAMRS    | - ACTION MESSAGE RETENTION BUFFER SHORTAGE MESSAGE DOM ID (MDC420)         |
| 24      | (18) | SIGNED     | 4   | UCMPAMRC    | - ACTION MESSAGE RETENTION SEVERE BUFFER SHORTAGE MESSAGE DOM ID (MDC421)  |
| 28      | (1C) | SIGNED     | 4   | UCMPAMRF    | - ACTION MESSAGE RETENTION BUFFER EXTENSION FAILED MESSAGE DOM ID (MDC422) |
| 32      | (20) | SIGNED     | 4   | UCMPAMRR    | - ACTION MESSAGE RETENTION FACILITY RESTART FAILED MESSAGE DOM ID (MDC324) |
| 36      | (24) | SIGNED     | 4   | UCMPMPFD    | - MPF FAILED MESSAGE DOM ID (MDC475)                                       |
| 40      | (28) | SIGNED     | 4   | UCMPOREC    | - ORE CRITICAL MESSAGE DOM ID                                              |
| 44      | (2C) | SIGNED     | 4   | UCMPORES    | - ORE SHORTAGE MESSAGE DOM ID                                              |
| 48      | (30) | ADDRESS    | 4   | UCMPE1ST    | - ADDRESS OF FIRST UCME PAGEABLE EXTENSION (MDC345)                        |
| 52      | (34) | SIGNED     | 4   | UCMPELEN    | - LENGTH OF A UCME PAGEABLE EXTENSION (MDC346)                             |
| 56      | (38) | ADDRESS    | 4   | UCMPELST    | - ADDRESS OF LAST UCME PAGEABLE EXTENSION (MDC347)                         |
| 60      | (3C) | ADDRESS    | 4   | UCMPECBM    | - Master Scheduler wait for COMM TASK ECB                                  |
| 64      | (40) | ADDRESS    | 4   | UCMPECB1    | - TASK ECB FOR IEAVMQWR                                                    |
| 68      | (44) | ADDRESS    | 4   | UCMPECB2    | - TASK ECB FOR IEEVWAIT                                                    |

Comment

STATUS FIELDS FOR THE ACTION MESSAGE RETENTION FACILITY AT THE TIME OF ERROR

End of Comment

|    |      |           |    |              |                                                                                               |
|----|------|-----------|----|--------------|-----------------------------------------------------------------------------------------------|
| 72 | (48) | CHARACTER | 12 | UCMPAMRP (0) | - POINTERS TO ACTION MESSAGE RETENTION FACILITY QUEUES AT TIME OF ERROR (MDC459)              |
| 72 | (48) | ADDRESS   | 4  | UCMPAMRQ     | - POINTER TO RETAINED MESSAGE QUEUE AT TIME OF ERROR (MDC460)                                 |
| 76 | (4C) | ADDRESS   | 4  | UCMPIAMQ     | - POINTER TO RETAINED IMMEDIATE ACTION MESSAGE QUEUE AT TIME OF ERROR (MDC461)                |
| 80 | (50) | ADDRESS   | 4  | UCMPEAMQ     | - POINTER TO RETAINED EVENTUAL ACTION MESSAGE QUEUE AT TIME OF ERROR (MDC462)                 |
| 84 | (54) | SIGNED    | 2  | UCMPAMRN     | - NUMBER OF RETAINED MESSAGES AT TIME OF ERROR (MDC463)                                       |
| 86 | (56) | BITSTRING | 1  | UCMPSNQB     | - QUEUE SCANNED FLAGS FOR ACTION MESSAGE RETENTION FACILITY AT TIME OF ERROR (MDC464)         |
|    |      | 1... .... |    | UCMPRQSD     | "BIT0" - RETAINED MESSAGE QUEUE WAS SCANNED AT TIME OF ERROR (MDC465)                         |
|    |      | .1.. .... |    | UCMPIQSD     | "BIT1" - RETAINED IMMEDIATE ACTION MESSAGE QUEUE WAS SCANNED AT TIME OF ERROR (MDC466)        |
|    |      | ..1. .... |    | UCMPEQSD     | "BIT2" - RETAINED EVENTUAL ACTION MESSAGE QUEUE WAS SCANNED AT TIME OF ERROR (MDC467)         |
|    |      | ...1 .... |    | UCMPCQSD     | "BIT3" - RETAINED CRITICAL EVENTUAL ACTION MESSAGE QUEUE WAS SCANNED AT THE TIME OF THE ERROR |
|    |      | .... 1... |    | UCMPRSV4     | "BIT4" - RESERVED                                                                             |
|    |      | .... .1.. |    | UCMPRSV5     | "BIT5" - RESERVED                                                                             |
|    |      | .... ..1. |    | UCMPRSV6     | "BIT6" - RESERVED                                                                             |
|    |      | .... ...1 |    | UCMPRSV7     | "BIT7" - RESERVED                                                                             |
| 87 | (57) | BITSTRING | 1  | UCMPRSV8     | - RESERVED (MDC468)                                                                           |
| 88 | (58) | ADDRESS   | 4  | UCMPQWRR     | - IEAVMQWR'S RETURN ADDR                                                                      |
| 92 | (5C) | ADDRESS   | 4  | UCMPSWRK     | - POINTER TO IEAVSTAA'S WORKAREA                                                              |
| 96 | (60) | BITSTRING | 1  | UCMPFLG1     | - MISCELLANEOUS FLAGS                                                                         |
|    |      | 1... .... |    | UCMPWERA     | "BIT0" COMMTASK IEEVWAIT EXTERNAL RESTART ATTEMPTED                                           |

# UCM Map

| Offsets |      |            |     |              |                                                                                                                                                                             |
|---------|------|------------|-----|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                                                                                 |
|         |      | .1.. ....  |     | UCMPUXIT     | "BIT1" - IF ON, ACTIVATE THE GENERAL USER EXIT                                                                                                                              |
|         |      | ..1. ....  |     | UCMPPFKC     | "BIT2" - IF ON, PFK TABLE INITIALIZATION IS COMPLETE                                                                                                                        |
|         |      | ...1 ....  |     | UCMPSWCH     | "BIT3" IF ON, IEAVSWCH ISSUED AN ATTACH FOR IEAVSWCB. IEAVSWCB TURNS THIS OFF WHEN IT COMPLETES PROCESSING.                                                                 |
|         |      | .... 1...  |     | UCMPSWCC     | "BIT4" IF ON, IEAVSWCC HAS BEEN ATTACHED AND IS CURRENTLY PROCESSING THE MASTER CONSOLE CANDIDATE                                                                           |
|         |      | .... .1..  |     | UCMPLOCO     | "BIT5" Suppress global updates                                                                                                                                              |
|         |      | .... ..1.  |     | UCMPXITA     | "BIT6" If on, UEXIT=Y processor needs to post UCMPECBX when IEAVMXIT activated                                                                                              |
|         |      | .... ...1  |     | UCMPXTDF     | "BIT7" If on, UEXIT=Y by default                                                                                                                                            |
| 97      | (61) | CHARACTER  | 1   | UCMPRSV3     | RESERVED                                                                                                                                                                    |
| 98      | (62) | CHARACTER  | 2   | UCMPPFKM     | SUFFIX OF THE ACTIVE PFKTABXX SYS1.PARMLIB MEMBER                                                                                                                           |
| 100     | (64) | ADDRESS    | 4   | UCMPCAMQ     | - POINTER TO THE RETAINED CRITICAL EVENTUAL ACTION MESSAGE QUEUE AT THE TIME OF ERROR                                                                                       |
| 104     | (68) | BITSTRING  | 16  | UCMOWTOR     | DEFAULT ROUTING CODES FOR WTO/WTOR MACROS                                                                                                                                   |
| 120     | (78) | ADDRESS    | 4   | UCMPPFKT     | - POINTER TO THE PFK TABLE WHICH IS ACTIVE                                                                                                                                  |
| 124     | (7C) | ADDRESS    | 4   | UCMPATCN     | - UCME ADDRESS OF CANDIDATE CONSOLE DURING ATTENTION INTERRUPT PROCESSING                                                                                                   |
| 128     | (80) | CHARACTER  | 2   | UCMPRSV9     | - RESERVED                                                                                                                                                                  |
| 130     | (82) | CHARACTER  | 2   | UCMPMMSM     | - MMS MEMBER SUFFIX                                                                                                                                                         |
| 132     | (84) | SIGNED     | 4   | UCMPLT80     | - DOM ID FOR MESSAGE IEE213E (LOGQUEUE LIMIT)                                                                                                                               |
| 136     | (88) | SIGNED     | 4   | UCMPL100     | - DOM ID FOR MESSAGE IEE211E (LOGQUEUE LIMIT)                                                                                                                               |
| 140     | (8C) | ADDRESS    | 4   | UCMPECB3     | - TASK ECB FOR IEAVN617                                                                                                                                                     |
| 144     | (90) | ADDRESS    | 4   | UCMPECBC     | - ECB FOR CONSOLE CLASS INITIALIZATION                                                                                                                                      |
| 148     | (94) | ADDRESS    | 4   | UCMPIRQP     | - CLASS INITIALIZATION REQUEST QUEUE POINTER                                                                                                                                |
| 152     | (98) | ADDRESS    | 4   | UCMPNECB     | - NIP ECB (WAITED ON BY IEAVN701)                                                                                                                                           |
| 156     | (9C) | ADDRESS    | 4   | UCMPECB9     | - IEAVG608 ATTACH ECB                                                                                                                                                       |
| 160     | (A0) | ADDRESS    | 4   | UCMPECB4     | - IEAVG603 TASK ECB                                                                                                                                                         |
| 164     | (A4) | ADDRESS    | 4   | UCMPECB5     | - IEAVG610 TASK ECB                                                                                                                                                         |
| 168     | (A8) | ADDRESS    | 4   | UCMPECB6     | - IEAVG611 TASK ECB                                                                                                                                                         |
| 172     | (AC) | CHARACTER  | 4   | UCMPRSV1     | - Reserved (formerly UCMPECBQ)                                                                                                                                              |
| 176     | (B0) | SIGNED     | 4   | UCMPCICP     | - CLASS INITIALIZATION CELL POOL ID                                                                                                                                         |
| 180     | (B4) | CHARACTER  | 2   | UCMPCNXX     | - SUFFIX OF CONSOLXX USED FOR IPL                                                                                                                                           |
| 182     | (B6) | SIGNED     | 2   | UCMPROUT     | - ROUETIME ON CONSOLXX INIT                                                                                                                                                 |
| 184     | (B8) | ADDRESS    | 4   | UCMPECB7     | - PARTITION ECB                                                                                                                                                             |
| 188     | (BC) | CHARACTER  | 4   | UCMPPART     | - PARTITION WAIT STATE CODE                                                                                                                                                 |
| 192     | (C0) | ADDRESS    | 4   | UCMPECB8     | - IEAVM613 TASK ECB                                                                                                                                                         |
| 196     | (C4) | ADDRESS    | 4   | UCMPECB A    | - IEAVG608 ABEND ECB                                                                                                                                                        |
| 200     | (C8) | ADDRESS    | 4   | UCMPECB B    | - SYSPLEX USER STATE FIELD ECB                                                                                                                                              |
| 204     | (CC) | SIGNED     | 4   | UCMPDMUD (0) | - UD LOSS DOMID                                                                                                                                                             |
| 204     | (CC) | CHARACTER  | 1   | UCMPDMUH     | - SYSID IN HIGH ORDER BYTE OF DOMID                                                                                                                                         |
| 205     | (CD) | CHARACTER  | 3   | UCMPDMUS     | - DOMID SEQUENCE NUMBER                                                                                                                                                     |
| 208     | (D0) | SIGNED     | 4   | UCMPDMLL (0) | - MESSAGE LOSS DOMID                                                                                                                                                        |
| 208     | (D0) | CHARACTER  | 1   | UCMPDMMH     | - SYSID IN HIGH ORDER BYTE OF DOMID                                                                                                                                         |
| 209     | (D1) | CHARACTER  | 3   | UCMPDMMS     | - DOMID SEQUENCE NUMBER                                                                                                                                                     |
| 212     | (D4) | ADDRESS    | 4   | UCMP7603     | CONSOLE AREA ID VERIFICATION ROUTINE                                                                                                                                        |
| 216     | (D8) | ADDRESS    | 4   | UCMPAMRI     | - Insufficient AMRF storage msg DOMID                                                                                                                                       |
| 220     | (DC) | BITSTRING  | 4   | UCMPFTOD     | Local AMRF failure time                                                                                                                                                     |
| 224     | (E0) | ADDRESS    | 4   | UCMPFPTR     | - Pointer to AMRF Failure Time Table                                                                                                                                        |
| 228     | (E4) | SIGNED     | 4   | UCMPMDEV (0) | - Device number of the master console is saved here when a master and all alternates not available condition or a no consoles condition arises.                             |
| 228     | (E4) | CHARACTER  | 1   | UCMPMDV1     | - Set to char '0' when UCM is from a pre-SP510 system                                                                                                                       |
| 229     | (E5) | CHARACTER  | 3   | UCMPMDV3     | - Remaining three bytes                                                                                                                                                     |
| 232     | (E8) | SIGNED     | 4   | UCMPDMSN (0) | - SYNCH Loss DOMID                                                                                                                                                          |
| 232     | (E8) | CHARACTER  | 1   | UCMPDMSH     | - SYSID in high order byte of DOMID                                                                                                                                         |
| 233     | (E9) | CHARACTER  | 3   | UCMPDMSL     | - DOMID sequence number                                                                                                                                                     |
| 236     | (EC) | CHARACTER  | 8   | UCMPMSYN     | - system name where master console was last active - set only after control leaves switch in a master and all alternates not available condition or a no consoles condition |
| 244     | (F4) | ADDRESS    | 4   | UCMPECB D    | - Indicate that IEAVG614 abended                                                                                                                                            |



| Offsets |       |            |     |            |                                                                                                                                                                                                   |
|---------|-------|------------|-----|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                       |
| 248     | (F8)  | CHARACTER  | 8   | UCMPSTKN   | - STOKEN for Console group data space                                                                                                                                                             |
| 256     | (100) | CHARACTER  | 8   | UCMPHCP    | - Hardcopy group                                                                                                                                                                                  |
| 264     | (108) | CHARACTER  | 8   | UCMPSYN    | - SYNCHDEST group                                                                                                                                                                                 |
| 272     | (110) | CHARACTER  | 8   | UCMPNOCC   | - No console condition group                                                                                                                                                                      |
| 280     | (118) | SIGNED     | 4   | UCMPLOGL   | - SYSLOG Limit (LOGLIM)                                                                                                                                                                           |
| 284     | (11C) | ADDRESS    | 4   | UCMPMPFM   | - POINTER TO THE MPF TABLE WHICH IS ACTIVE                                                                                                                                                        |
| 288     | (120) | CHARACTER  | 8   | UCMPCTRP   | - CTRACE parmlib member name                                                                                                                                                                      |
| 296     | (128) | ADDRESS    | 4   | UCMPMFRR   | - Address of FRR router                                                                                                                                                                           |
| 300     | (12C) | ADDRESS    | 4   | UCMPMEST   | - Address of Estae router                                                                                                                                                                         |
| 304     | (130) | ADDRESS    | 4   | UCMPECBE   | - ECB - IEAVM616 abended                                                                                                                                                                          |
| 308     | (134) | ADDRESS    | 4   | UCMPECBF   | - ECB - IEAVM616 has work                                                                                                                                                                         |
| 312     | (138) | ADDRESS    | 4   | UCMPRTQE   | - Pointer to RTQE queue for IEAVM616                                                                                                                                                              |
| 316     | (13C) | ADDRESS    | 4   | UCMPRTQS   | - Pointer to RTQE stolen queue                                                                                                                                                                    |
| 320     | (140) | ADDRESS    | 4   | UCMPECBX   | Posted when IEAVMXIT is setup first time in ipl (UCMPXITA is on)                                                                                                                                  |
| 324     | (144) | ADDRESS    | 4   | UCMPECBU   | Posted when UEXIT=Y processor finishes (used on attach of IEEMB819)                                                                                                                               |
| 328     | (148) | ADDRESS    | 4   | UCMPTCBU   | TCB address of UEXIT=Y processor                                                                                                                                                                  |
| 332     | (14C) | BITSTRING  | 4   | UCMPHUNG   | Time last checked for hung MLWTOs                                                                                                                                                                 |
| 336     | (150) | ADDRESS    | 4   | UCMPCNEV   | Posted by CONSOLxx processing after UCM is initialized                                                                                                                                            |
| 340     | (154) | ADDRESS    | 4   | UCMPECEV   | Posted by IEAVN701 after local EMCS initialization                                                                                                                                                |
| 344     | (158) | BITSTRING  | 4   | UCMPRACN   | - Console id of Route command EMCS console                                                                                                                                                        |
| 348     | (15C) | CHARACTER  | 8   | UCMPRANM   | - Console name of Route command EMCS console                                                                                                                                                      |
| 356     | (164) | BITSTRING  | 4   | UCMPRCNI   | - Console id to which ROUTE command responses using the migration ID reserved for ROUTE commands should be directed. Valid only when IE ECB820 holds ENQ SYZMCS/ROUTE-MIGIDTOCNID                 |
| 360     | (168) | CHARACTER  | 8   | UCMPRCCA   | - CART value used for "route-to-route" processor communication                                                                                                                                    |
| 368     | (170) | CHARACTER  | 8   | UCMPRCLC   | - Last CART value generated for "route-to-route" communication                                                                                                                                    |
| 376     | (178) | CHARACTER  | 4   | UCMPRECB   | - ECB posted by IEAVM614 when the first line of a response to a ROUTE command using a migid reserved for ROUTE commands is received. Valid only when IE ECB820 holds ENQ SYZMCS/ROUTE-MIGIDTOCNID |
| 380     | (17C) | CHARACTER  | 4   | UCMPGECB   | - ROUTE command EMCS message ECB. Posted when a message is processed with cnid = ucpracr. Used only when IE ECB820 holds ENQ SYZMCS/ROUTE-GROUP--CNID                                             |
| 384     | (180) | ADDRESS    | 4   | UCMPSWCT   | Addr of system WQE count table (SWCT)                                                                                                                                                             |
| 388     | (184) | SIGNED     | 4   | UCMPWQAB   | Number of WQEs buffered above 16M                                                                                                                                                                 |
| 392     | (188) | SIGNED     | 4   | UCMPDCDM   | IEA652A discard WTO DOMID                                                                                                                                                                         |
| 396     | (18C) | SIGNED     | 4   | UCMPDMSG   | # msgs discarded while above 16M storage was exhausted                                                                                                                                            |
| 400     | (190) | BITSTRING  | 1   | UCMPRCPI   | - Last migration id value used by route command processor.                                                                                                                                        |
| 401     | (191) | BITSTRING  | 3   | UCMPRSVB   | Reserved                                                                                                                                                                                          |
| 404     | (194) | SIGNED     | 4   | UCMPTRDM   | IEA767A trace buf wrapped WTO DOMID                                                                                                                                                               |
| 408     | (198) | ADDRESS    | 4   | UCMPCTSC   | Address of Comm Task's AS security                                                                                                                                                                |

Comment

SMCS Data - Fields starting with UCMP\_ are unique to SMCS consoles.

End of Comment

|     |       |         |   |               |                                 |
|-----|-------|---------|---|---------------|---------------------------------|
| 412 | (19C) | ADDRESS | 4 | UCMP_ LGNEXIT | SMCS Logon Exit address         |
| 416 | (1A0) | ADDRESS | 4 | UCMP_ TPDEXIT | SMCS TP End Exit address        |
| 420 | (1A4) | ADDRESS | 4 | UCMP_ SYNEXIT | SMCS SYNAD Exit address         |
| 424 | (1A8) | ADDRESS | 4 | UCMP_ LGLEXIT | SMCS Logical Error Exit address |
| 428 | (1AC) | ADDRESS | 4 | UCMP_ LSTEXIT | SMCS Lost Terminal Exit address |
| 432 | (1B0) | ADDRESS | 4 | UCMP_ RSPEXIT | SMCS Response Exit address      |

## UCM Map

| Offsets |       |            |     |                                  |                                                                                                                                         |
|---------|-------|------------|-----|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim)                       | Description                                                                                                                             |
| 436     | (1B4) | ADDRESS    | 4   | UCMPS_SNDEXIT                    | SMCS Send Exit address                                                                                                                  |
| 440     | (1B8) | ADDRESS    | 4   | UCMPS_CLNUP                      | SMCS Cleanup Routine address                                                                                                            |
| 444     | (1BC) | ADDRESS    | 4   | UCMPS_RCVEXIT                    | SMCS Receive Exit address - Attn Rtn                                                                                                    |
| 448     | (1C0) | ADDRESS    | 4   | UCMPS_CLSEXIT                    | SMCS CLSDST RPL Exit address                                                                                                            |
| 452     | (1C4) | ADDRESS    | 4   | UCMPS_ACBADDR                    | SMCS ACB Address                                                                                                                        |
| 456     | (1C8) | ADDRESS    | 4   | UCMPS_EXITLST                    | SMCS Exit List address                                                                                                                  |
| 460     | (1CC) | ADDRESS    | 4   | UCMPS_SETLRPL                    | SMCS SETLOGON RPL address                                                                                                               |
| 464     | (1D0) | ADDRESS    | 4   | UCMPS_NIBADDR                    | SMCS NIB Address for SETLOGON                                                                                                           |
| 468     | (1D4) | ADDRESS    | 4   | UCMPS_VCBADDR                    | SMCS VTAM Control Block address                                                                                                         |
| 472     | (1D8) | SIGNED     | 4   | UCMPS_VCBLEN                     | SMCS VTAM Control Block length                                                                                                          |
| 476     | (1DC) | ADDRESS    | 4   | UCMPS_MAINRTN_TCB                | SMCS Main routine (IEECV SMA) TCB ptr                                                                                                   |
| 480     | (1E0) | CHARACTER  | 9   | UCMPS_APPLID_AREA<br>(0)         | SMCS Application ID area                                                                                                                |
| 480     | (1E0) | BITSTRING  | 1   | UCMPS_APPLID_LEN                 | SMCS Length of Appl Id                                                                                                                  |
| 481     | (1E1) | CHARACTER  | 8   | UCMPS_APPLID                     | SMCS Application ID. If blank, SMCS consoles will not be available on this system                                                       |
| 489     | (1E9) | CHARACTER  | 9   | UCMPS_APPLID_INUSEBY_AREA<br>(0) | SMCS Application Id in use by this system                                                                                               |
| 489     | (1E9) | BITSTRING  | 1   | UCMPS_APPLID_INUSEBY_LEN         | SMCS Length of applid in use by system                                                                                                  |
| 490     | (1EA) | CHARACTER  | 8   | UCMPS_APPLID_INUSEBY_SYSTEM      | SMCS Applid in use by this system                                                                                                       |
| 498     | (1F2) | CHARACTER  | 8   | UCMPS_GENRCID                    | SMCS VTAM Generic Id for the sysplex                                                                                                    |
| 506     | (1FA) | CHARACTER  | 8   | UCMPS_GENERIC_INUSEBY_SYSTEM     | SMCS VTAM Generic Id that is in use by this system                                                                                      |
| 514     | (202) | BITSTRING  | 1   | UCMPS_STATUS                     | SMCS Status                                                                                                                             |
| 515     | (203) | BITSTRING  | 1   |                                  | Reserved - Boundary alignment                                                                                                           |
| 516     | (204) | ADDRESS    | 4   | UCMPS_LPAB_RQ                    | SMCS Logon Processing Anchor Block Recovery Queue                                                                                       |
| 520     | (208) | ADDRESS    | 4   | UCMPS_EOT_ECB                    | SMCS End-of-Task ECB                                                                                                                    |
| 524     | (20C) | CHARACTER  | 8   | UCMPS_MSTR_LU                    | LU name of the master console is saved here when a master and all alternates not available condition or a no consoles condition arises. |

Comment

While the values of these fields do not require a full word, these are passed as parameters to general routines that expect a full word.

End of Comment

|     |       |        |   |                 |                        |
|-----|-------|--------|---|-----------------|------------------------|
| 532 | (214) | SIGNED | 4 | UCMPS_RPL_LEN   | Length of an RPL       |
| 536 | (218) | SIGNED | 4 | UCMPS_NIB_LEN   | Length of a NIB        |
| 540 | (21C) | SIGNED | 4 | UCMPS_EXLST_LEN | Length of an Exit List |

| Offsets                                                                                                       |       |            |     |                               |                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------|-------|------------|-----|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec                                                                                                           | Hex   | Type/Value | Len | Name (Dim)                    | Description                                                                                                                                           |
| Comment                                                                                                       |       |            |     |                               |                                                                                                                                                       |
| The following are the DSP names and addresses used by SMCS consoles                                           |       |            |     |                               |                                                                                                                                                       |
| End of Comment                                                                                                |       |            |     |                               |                                                                                                                                                       |
| 544                                                                                                           | (220) | CHARACTER  | 8   | UCMPS_DISPLAY_DSP_NAME        | Name of display consoles DSP                                                                                                                          |
| 552                                                                                                           | (228) | ADDRESS    | 4   | UCMPS_DISPLAY_DSP_ADDR        | Addr of display consoles DSP                                                                                                                          |
| 556                                                                                                           | (22C) | CHARACTER  | 12  |                               | Reserved                                                                                                                                              |
| Comment                                                                                                       |       |            |     |                               |                                                                                                                                                       |
| DOM Ids for messages that indicate operator action is required to activate a new SMCS Applid or Generic name. |       |            |     |                               |                                                                                                                                                       |
| End of Comment                                                                                                |       |            |     |                               |                                                                                                                                                       |
| 568                                                                                                           | (238) | SIGNED     | 4   | UCMPS_DOMID_GENERIC           | Sysplex-wide. When non-zero, at least one system in the sysplex is not using the current SMCS Generic name. SMCS on those systems need to be recycled |
| 572                                                                                                           | (23C) | SIGNED     | 4   | UCMPS_DOMID_APPLID            | System scope. When non-zero, this system is using a different applid than requested by the operator. SMCS needs to be recycled                        |
| 576                                                                                                           | (240) | SIGNED     | 4   | UCMPS_DOMID_WAIT_4_ACTIVATION | System scope. When non-zero, this this system is waiting for VTAM to activate the SMCS Applid                                                         |
| 580                                                                                                           | (244) | ADDRESS    | 4   | UCMPOWCP                      | Address of temp WTOR cell pool BWCP                                                                                                                   |
| 584                                                                                                           | (248) | ADDRESS    | 4   | UCMPS_VM200_ADDR              | Address of IEAVM200. This address is only valid when SMCS is active, and should only be used by SMCS                                                  |
| 588                                                                                                           | (24C) | ADDRESS    | 4   | UCMPS_CB825_ADDR              | Address of IIECB825. This address is only valid when SMCS is active, and should only be used by SMCS                                                  |
| 592                                                                                                           | (250) | ADDRESS    | 4   | UCMPS_CB818_ADDR              | Address of IIECB818. This address is only valid when SMCS is active, and should only be used by SMCS                                                  |
| 596                                                                                                           | (254) | ADDRESS    | 4   | UCMPS_SWCB_ADDR               | Address of IEAVSWCB. This address is only valid when SMCS is active, and should only be used by SMCS                                                  |
| 600                                                                                                           | (258) | ADDRESS    | 4   | UCMPS_SWCS_ADDR               | Address of IEAVSWCS. This address is only valid when SMCS is active, and should only be used by SMCS                                                  |
| 604                                                                                                           | (25C) | ADDRESS    | 4   | UCMPS_SYMREC_ADDR             | Address of IIECVSYM. This address is only valid when SMCS is active, and should only be used by SMCS                                                  |
| 608                                                                                                           | (260) | ADDRESS    | 4   | UCMPS_SMCS_CP_ADDR            | Address of SMCS cell pool BWCP                                                                                                                        |
| 612                                                                                                           | (264) | SIGNED     | 4   | UCMPS_DOMID_IEE823E           | System scope. When non-zero, this system had a IIECVSHT subtask failure.                                                                              |
| 616                                                                                                           | (268) | ADDRESS    | 4   | UCMPS_HT_SUBTASK_TCB          | SMCS IIECVSHT subtask TCB address                                                                                                                     |
| 620                                                                                                           | (26C) | CHARACTER  | 12  | UCMPRSVD                      | Reserved                                                                                                                                              |
| Comment                                                                                                       |       |            |     |                               |                                                                                                                                                       |
| Status Codes For SMCS (field UCMPS_STATUS)                                                                    |       |            |     |                               |                                                                                                                                                       |
| End of Comment                                                                                                |       |            |     |                               |                                                                                                                                                       |
| 620                                                                                                           | (26C) | X'0'       | 0   | UCMPS_SMCS_NOT_ACTIVE         |                                                                                                                                                       |

## UCM Map

| Offsets |       |            |     |                          |                                                                           |
|---------|-------|------------|-----|--------------------------|---------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim)               | Description                                                               |
| 620     | (26C) | X'1'       | 0   | UCMPS_SMCS_INITIALIZING  | "0" SMCS is not active                                                    |
| 620     | (26C) | X'2'       | 0   | UCMPS_SMCS_WAIT_4_VTAM   | "1" SMCS is initializing<br>"2" SMCS is waiting for VTAM to become active |
| 620     | (26C) | X'3'       | 0   | UCMPS_SMCS_WAIT_4_APPLID | "3" SMCS is waiting for the SMCS Applid to become active                  |
| 620     | (26C) | X'4'       | 0   | UCMPS_SMCS_ACTIVE        | "4" SMCS is active                                                        |
| 620     | (26C) | X'5'       | 0   | UCMPS_SMCS_SHUTTING_DOWN | "5" SMCS is shutting down                                                 |
| 620     | (26C) | X'6'       | 0   | UCMPS_SMCS_TERMINATING   | "6" SMCS is terminating because of a failure                              |

| Offsets |     |            |     |                        |                                                                                             |
|---------|-----|------------|-----|------------------------|---------------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim)             | Description                                                                                 |
| 0       | (0) | STRUCTURE  | 0   | UCMEFEXT               | , - UCME FIXED EXTENSION (MDC349)                                                           |
| 0       | (0) | BITSTRING  | 1   | UCMEFLG1               | - FLAGS FOR UCME FIXED EXTENSION (MDC350)                                                   |
|         |     | 1... ....  |     | UCMEFLGA               | "BIT0" - IF 1, ATTENTION INDEX IN UCMEFATT IS VALID (MDC351)                                |
|         |     | .1.. ....  |     | UCMEFLGB               | "BIT1" - IF 1, UCBSYSR FOR THIS DEVICE WAS FORCED TO 1 AND SHOULD BE RESTORED TO 0 (MDC352) |
|         |     | ..1. ....  |     | UCMEFLGC               | "BIT2" - RECURSIVE ERROR INDICATOR                                                          |
|         |     | ...1 ....  |     | UCMEFLGD               | "BIT3" - OPEN IN PROCESS FOR 3270-X                                                         |
|         |     | .... 1..   |     | UCMEFLGE               | "BIT4" - RESERVED                                                                           |
|         |     | .... .1..  |     | UCMEF_LOGON_OPTIONAL   | "BIT5" Logon is optional for this UCME regardless of CONSOLxx DEFAULT specification.        |
|         |     | .... ..1.  |     | UCMEF_LOGON_REQUIRED   | "BIT6" Logon is required for this UCME regardless of CONSOLxx DEFAULT specification.        |
|         |     | .... ...1  |     | UCMEF_AUTOLOG_REQUIRED | "BIT7" Autologon is required for this UCME regardless of CONSOLxx DEFAULT .                 |
| 1       | (1) | BITSTRING  | 1   | UCMEFLG2               | - FLAG FIELD                                                                                |
|         |     | 1... ....  |     | UCMEFSTW               | "BIT0" - USE OF THE CONSOLE IS CHANGING                                                     |
|         |     | .1.. ....  |     | UCMEFLRQ               | "BIT1" - DISPLAY LOGON PROMPT                                                               |
|         |     | ..1. ....  |     | UCMEFALG               | "BIT2" - INITIATE AUTOMATIC LOGON OF CONSOLE                                                |
|         |     | ...1 ....  |     | UCMEFLOG               | "BIT3" - CONSOLE HAS AN ACTIVE LOGON                                                        |
|         |     | .... 1..   |     | UCMEALOG               | "BIT4" - CONSOLE WAS AUTOMATICALLY LOGGED ON                                                |
|         |     | .... .1..  |     | UCMEFALL               | "BIT5" - MESSAGE SCOPE OF *ALL IS BEING USED                                                |
|         |     | .... ..1.  |     | UCMEFPAL               | "BIT6" - MSCOPE *ALL IS BEING USED FOR PACKET AREA                                          |
| 2       | (2) | SIGNED     | 1   | UCMEFATT               | - ATTENTION INDEX. VALID ONLY IF UCMEFLGA IS 1. (MDC360)                                    |
| 3       | (3) | SIGNED     | 1   | UCMEFSA1               | - ATTENTION INDEX SAVED BY 1052 DEVICE SERVICE PROCESSOR (MDC361)                           |
| 4       | (4) | ADDRESS    | 4   | UCMEFPEX               | - ADDRESS OF UCME PAGEABLE EXTENSION (MDC362)                                               |
| 8       | (8) | SIGNED     | 1   | UCMEFSA2               | - ATTENTION INDEX SAVED BY SUBSYS                                                           |
| 9       | (9) | SIGNED     | 1   | UCMEFDVX               | - DEVICE TYPE - SAVED ON FIRST OPEN                                                         |
| 10      | (A) | BITSTRING  | 2   | UCMEFLVL (0)           | - LEVEL OF MESSAGE TO APPEAR ON CONSOLE                                                     |
| 10      | (A) | BITSTRING  | 1   | UCMEFL1                | - FIRST BYTE OF THE MESSAGE LEVEL FLAGS                                                     |
|         |     | 1... ....  |     | UCMEFLR                | "BIT0" DISPLAY WTORS                                                                        |
|         |     | .1.. ....  |     | UCMEFLIA               | "BIT1" DISPLAY IMMEDIATE ACTION MESSAGES                                                    |
|         |     | ..1. ....  |     | UCMEFLCE               | "BIT2" DISPLAY CRITICAL EVENTUAL MESSAGES                                                   |
|         |     | ...1 ....  |     | UCMEFLE                | "BIT3" DISPLAY EVENTUAL ACTION MESSAGES                                                     |
|         |     | .... 1..   |     | UCMEFLI                | "BIT4" DISPLAY INFORMATIONAL MESSAGES                                                       |
|         |     | .... .1..  |     | UCMEFLBC               | "BIT5" DISPLAY BROADCAST MESSAGES                                                           |
| 11      | (B) | BITSTRING  | 1   | UCMEFL2                | - RESERVED                                                                                  |
| 12      | (C) | BITSTRING  | 4   | UCMEFCN (0)            | - FOUR-BYTE CONSOLE ID                                                                      |
| 12      | (C) | BITSTRING  | 1   | UCMEFCNC               | - CONSOLE CLASS                                                                             |
| 13      | (D) | BITSTRING  | 1   | UCMEFCNR               | - RESERVED - 0                                                                              |
| 14      | (E) | BITSTRING  | 2   | UCMEFCNN               | - CONSOLE NUMBER                                                                            |

| Offsets |      |            |     |            |                                                             |
|---------|------|------------|-----|------------|-------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                 |
| 16      | (10) | SIGNED     | 2   | UCMEFUTM   | - DEFAULT UTME VALUE                                        |
| 18      | (12) | SIGNED     | 1   | UCMEFNCS   | - NUMBER OF MESSAGE SCOPE VALUES SPECIFIED FOR THIS CONSOLE |

Comment

UCMEFMSC is used for queuing, only put flags in it which are to be used for queuing messages.  
 If you add flags to UCMEFMSC then you should add them to the corresponding miscellaneous routing bytes in the WQE, ODTE, RCTB and CTM.

End of Comment

|    |      |           |    |          |                                                                        |
|----|------|-----------|----|----------|------------------------------------------------------------------------|
| 19 | (13) | BITSTRING | 1  | UCMEFMSC | - MISCELLANEOUS ROUTING INFORMATION                                    |
|    |      | 1... .... |    | UCMEFUD  | "BIT0" - DISPLAY UD MESSAGES                                           |
|    |      | .1.. .... |    | UCMEFUDO | "BIT1" - DISPLAY ONLY UD MESSAGES                                      |
|    |      | ..1. .... |    | UCMEFMS3 | "BIT2" - reserved for IBM use                                          |
|    |      | ...1 .... |    | UCMEFAUT | "BIT3" - reserved for IBM use                                          |
|    |      | .... 1... |    | UCMEFHCV | "BIT4" - reserved for IBM use                                          |
| 20 | (14) | SIGNED    | 1  | UCMEFPNS | - NUMBER OF MSCOPE VALUE SPECIFIED FOR THIS CONSOLE IN THE PACKET AREA |
| 21 | (15) | BITSTRING | 1  | UCMEFL3  | - Reserved for IBM use                                                 |
|    |      | 1... .... |    | UCMEFMSA | "BIT0" - MESSAGE SCOPE OF * IS BEING USED                              |
|    |      | .1.. .... |    | UCMEFCSA | "BIT1" - CMDSYS OF * IS BEING USED                                     |
| 22 | (16) | CHARACTER | 2  | UCMEFRV2 | - RESERVED                                                             |
| 24 | (18) | BITSTRING | 16 | UCMEFRC  | - CONSOLE ROUTING CODES (1-128)                                        |
| 40 | (28) | ADDRESS   | 4  | UCMEFCMQ | - POINTER TO THE CONSOLE'S COMMAND QUEUE                               |
| 44 | (2C) | ADDRESS   | 4  | UCMEFBUP | - ADDRESS OF BACKUP CONSOLE ID AFTER THIS CONSOLE SWITCHED             |
| 48 | (30) | ADDRESS   | 4  | UCMEFCQE | - END OF CQE POINTER                                                   |
| 52 | (34) | CHARACTER | 8  | UCMEFCNM | - CONSOLE NAME                                                         |
| 60 | (3C) | ADDRESS   | 4  | UCMEFSDL | - ADDRESS OF SYSTEM/DEVICE ASSOCIATION LIST (SDAL)                     |
| 64 | (40) | ADDRESS   | 4  | UCMEFSEC | - ADDRESS OF Security information                                      |
| 68 | (44) | CHARACTER | 8  | UCMEFUID | - USERID FROM ACEE                                                     |

Comment

SMCS Data - Fields starting with UCMEFS\_ are unique to SMCS consoles.

End of Comment

|    |      |           |    |                         |                                                         |
|----|------|-----------|----|-------------------------|---------------------------------------------------------|
| 76 | (4C) | ADDRESS   | 4  | UCMEFS_SNRPL            | SMCS Send RPL address                                   |
| 80 | (50) | ADDRESS   | 4  | UCMEFS_RCVRPL           | SMCS Receive RPL address                                |
| 84 | (54) | ADDRESS   | 4  | UCMEFS_CLSDST_QUERY_RPL | SMCS CLSDST and Read Partition Query RPL                |
| 88 | (58) | SIGNED    | 4  | UCMEFS_CID              | SMCS Communication Id                                   |
| 92 | (5C) | CHARACTER | 16 |                         | Reserved                                                |
| 92 | (5C) | X'6C'     | 0  | UCMEFLEN                | **UCMEFEXT" - LENGTH OF A UCME FIXED EXTENSION (MDC363) |

| Offsets |     |            |     |            |                                                                                             |
|---------|-----|------------|-----|------------|---------------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                                                                 |
| 0       | (0) | STRUCTURE  | 0   | UCMEPEXT   | , - UCME PAGEABLE EXTENSION                                                                 |
| 0       | (0) | CHARACTER  | 8   | UCMEPNME   | NAME OF THE SYSTEM COMPONENT WHICH IS USING THIS CONSOLE                                    |
| 8       | (8) | SIGNED     | 2   | UCMEPAID   | ASID OF THE SYSTEM COMPONENT WHICH IS USING THIS CONSOLE                                    |
| 10      | (A) | BITSTRING  | 2   | UCMEPAUT   | COPY OF UCMAUTH AT THE TIME THAT THE CONSOLE WAS OBTAINED BY A SYSTEM COMPONENT (SUBSYSTEM) |
| 12      | (C) | BITSTRING  | 1   | UCMEPG1    | MISCELLANEOUS FLAGS                                                                         |

# UCM Map

| Offsets              |      |            |     |              |                                                                                                                        |
|----------------------|------|------------|-----|--------------|------------------------------------------------------------------------------------------------------------------------|
| Dec                  | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                            |
|                      |      | 1... ....  |     | UCMEPAIN     | "BIT0" - IF ON, AREA IS DEFINED. IF OFF, APPLY DEFAULT                                                                 |
|                      |      | .1.. ....  |     | UCMEPTFL     | "BIT1" - IF ON, OPEN WAS UNABLE TO OBTAIN A TDCM                                                                       |
|                      |      | ..1. ....  |     | UCMEPPOB     | "BIT2" - IF ON, PFK BUFFER WAS OBTAINED                                                                                |
|                      |      | ...1 ....  |     | UCMEPASY     | "BIT3" - ASYNCHRONOUSLY UPDATEABLE DATA MAY NOT BE APPLIED                                                             |
|                      |      | .... 1...  |     | UCMEPEDS     | "BIT4" - Device supports Extended Data Stream                                                                          |
| Comment              |      |            |     |              |                                                                                                                        |
| EQU X'07' - Reserved |      |            |     |              |                                                                                                                        |
| End of Comment       |      |            |     |              |                                                                                                                        |
| 13                   | (D)  | BITSTRING  | 2   | UCMEPMTR (0) | MONITOR SAVE FLAGS                                                                                                     |
| 13                   | (D)  | BITSTRING  | 1   | UCMEPMON     | MONITOR SAVE FLAGS, FIRST BYTE                                                                                         |
|                      |      | 1... ....  |     | UCMEPMJ      | "BIT0" - MONITOR JOB NAMES SAVE FLAG                                                                                   |
|                      |      | .1.. ....  |     | UCMEPMST     | "BIT1" - MONITOR STATUS SAVE FLAG                                                                                      |
|                      |      | ..1. ....  |     | UCMEPM02     | "BIT2,,C'X'" - RESERVED                                                                                                |
|                      |      | ...1 ....  |     | UCMEPM03     | "BIT3,,C'X'" - RESERVED                                                                                                |
|                      |      | .... 1...  |     | UCMEPM04     | "BIT4,,C'X'" - RESERVED                                                                                                |
|                      |      | .... .1..  |     | UCMEPMS      | "BIT5" - MONITOR SESSIONS SAVE FLAG                                                                                    |
|                      |      | .... ..1.  |     | UCMEPMTM     | "BIT6" - MONITOR WITH TIME                                                                                             |
|                      |      | .... ...1  |     | UCMEPM07     | "BIT7,,C'X'" - RESERVED                                                                                                |
| 14                   | (E)  | BITSTRING  | 1   | UCMEPMT2     | MONITOR SAVE FLAGS, SECOND BYTE                                                                                        |
| 15                   | (F)  | BITSTRING  | 1   | UCMEPF4      | RESERVED - FLAG BYTE 4                                                                                                 |
| 16                   | (10) | CHARACTER  | 8   | UCMEPFKT     | NAME OF THE PFK TABLE BEING USED BY THIS CONSOLE                                                                       |
| 24                   | (18) | CHARACTER  | 2   | UCMEPFKM     | SUFFIX OF THE SYS1.PARMLIB MEMBER WHERE THE PFK TABLE WAS DEFINED                                                      |
| 26                   | (1A) | SIGNED     | 2   | UCMEPARD     | - NUMBER OF AREAS DEFINED                                                                                              |
| 28                   | (1C) | BITSTRING  | 11  | UCMEPARE     | - ARRAY OF 11 AREA SIZES                                                                                               |
| 39                   | (27) | CHARACTER  | 1   | UCMEPCON     | - DELETE VERIFICATION CON=(Y,N)                                                                                        |
| 40                   | (28) | CHARACTER  | 2   | UCMEPDEL     | - AUTOMATIC DELETION DEL=(Y ,N ,R ,RD)                                                                                 |
| 42                   | (2A) | SIGNED     | 2   | UCMEPRTM     | - ROLL TIME IN TENTHS OF SECONDS                                                                                       |
| 44                   | (2C) | SIGNED     | 1   | UCMEPRNM     | - ROLL NUMBER                                                                                                          |
| 45                   | (2D) | SIGNED     | 1   | UCMEPSEG     | - SEGMENT SIZE                                                                                                         |
| 46                   | (2E) | BITSTRING  | 1   | UCMEPFSY     | - DURING CONSOLE SWITCH, IF THIS CONSOLE IS A FAILING CONSOLE, CONTAINS SYSTEM ID FOR WHERE FAILING CONSOLE WAS ACTIVE |
| 47                   | (2F) | BITSTRING  | 1   | UCMEPRBF     | Number of 'last command buffers' to obtain for this console                                                            |
| 48                   | (30) | SIGNED     | 4   | UCMEPTUL     | - LENGTH OF AREA CONTAINING RDCM, TDCM, PFK IF ONE EXISTS AND SACBS IF ANY                                             |
| 52                   | (34) | CHARACTER  | 16  | UCMEPSRC     | SAVED SUBSYSTEM CONSOLE ROUTING CODES                                                                                  |
| 68                   | (44) | CHARACTER  | 8   | UCMEPALT     | NAME OF CONSOLE'S ALTERNATE                                                                                            |
| 76                   | (4C) | BITSTRING  | 1   | UCMEPA (11)  | ARRAY OF 11 FLAG BYTES CORRESPONDING TO EACH AREA DEFINED IN UCMEPARE                                                  |
|                      |      | 1... ....  |     | UCMEPUSE     | "X'80" AREA CURRENTLY DEFINED, SAME AS DCMAUSE                                                                         |
|                      |      | .1.. ....  |     | UCMEPADD     | "X'40" TRACK IN AREA, SAME AS DCMADD                                                                                   |
| Comment              |      |            |     |              |                                                                                                                        |
| EQU X'3F' RESERVED   |      |            |     |              |                                                                                                                        |
| End of Comment       |      |            |     |              |                                                                                                                        |
| 87                   | (57) | CHARACTER  | 8   | UCMEPSNM     | SYSTEM NAME USED FOR CHECKING IN A SYSPLEX                                                                             |
| 95                   | (5F) | CHARACTER  | 8   | UCMEPCS      | - SYSTEM NAME FOR COMMAND ASSOCIATION                                                                                  |
| 103                  | (67) | BITSTRING  | 17  | UCMEPGRP (0) | MONITOR & SWITCH INFORMATION                                                                                           |
| 103                  | (67) | BITSTRING  | 1   | UCMEPMNR     | CONSOLE ATTRIBUTES                                                                                                     |
| 104                  | (68) | SIGNED     | 4   | UCMEPSTC     | SWITCHED TO CONSOLE ID                                                                                                 |
| 108                  | (6C) | SIGNED     | 4   | UCMEPSFC     | SWITCHED FROM CONSOLE ID                                                                                               |
| 112                  | (70) | CHARACTER  | 8   | UCMEPALG     | ALTERNATE GROUP NAME                                                                                                   |
| 120                  | (78) | CHARACTER  | 40  | UCMEPCKT     | PACKET AREA                                                                                                            |
| 160                  | (A0) | CHARACTER  | 8   | UCMEPSYS     | SYSTEM VALUE ON CONSOLE                                                                                                |
| 168                  | (A8) | ADDRESS    | 4   | UCMEPSNL     | ADDRESS OF CONSOLES SYSTEMS NAMES LIST                                                                                 |
| 172                  | (AC) | CHARACTER  | 4   | UCMETIOE     | ADDRESS OF TIOT ENTRY FOR THIS CONSOLE                                                                                 |
| 176                  | (B0) | CHARACTER  | 8   | UCMEPTOK     | PTOKEN OF CONSOLE DEVICE UCB                                                                                           |

| Offsets                                                               |       |            |     |                       |                                                                                         |
|-----------------------------------------------------------------------|-------|------------|-----|-----------------------|-----------------------------------------------------------------------------------------|
| Dec                                                                   | Hex   | Type/Value | Len | Name (Dim)            | Description                                                                             |
| 184                                                                   | (B8)  | BITSTRING  | 1   | UCMEPROW              | Number of rows on the screen                                                            |
| 185                                                                   | (B9)  | BITSTRING  | 1   | UCMEPCOL              | Number of cols on the screen                                                            |
| Comment                                                               |       |            |     |                       |                                                                                         |
| SMCS Data - Fields starting with UCMEPS_ are unique to SMCS consoles. |       |            |     |                       |                                                                                         |
| End of Comment                                                        |       |            |     |                       |                                                                                         |
| 186                                                                   | (BA)  | BITSTRING  | 1   | UCMEPS_LUTYPE         | SMCS LU Type Indicators                                                                 |
|                                                                       |       | 1... ..    |     | UCMEPS_LU0            | "BIT0" Device supports LU 0                                                             |
|                                                                       |       | ..1. ....  |     | UCMEPS_LU2            | "BIT2" Device supports LU 2                                                             |
| 187                                                                   | (BB)  | BITSTRING  | 1   | UCMEPS_FLAGS          | SMCS Flags                                                                              |
|                                                                       |       | 1... ..    |     | UCMEPS_CNSW_INVOKED   | "BIT0" Console Switch has already been invoked for this console during close processing |
|                                                                       |       | ...1 ....  |     | UCMEPS_MID_OF_BRACKET | "BIT3" Initially, the device is in the middle of brackets                               |
| 188                                                                   | (BC)  | ADDRESS    | 4   | UCMEPS_VCBADR         | SMCS VTAM Cntl Blk storage address                                                      |
| 192                                                                   | (C0)  | SIGNED     | 4   | UCMEPS_VCBLEN         | SMCS VTAM Cntl Blk storage length                                                       |
| 196                                                                   | (C4)  | ADDRESS    | 4   | UCMEPS_NIB            | SMCS NIB address                                                                        |
| 200                                                                   | (C8)  | ADDRESS    | 4   | UCMEPS_EXLST          | SMCS EXLST address                                                                      |
| 204                                                                   | (CC)  | ADDRESS    | 4   | UCMEPS_LPAB_ADDR      | SMCS Logon Processing Anchor Block                                                      |
| 208                                                                   | (D0)  | SIGNED     | 4   | UCMEPS_LPAB_LEN       | SMCS Logon Processing Anchor Block                                                      |
| 212                                                                   | (D4)  | CHARACTER  | 8   | UCMEPS_LUNAME         | SMCS LU Name                                                                            |
| 220                                                                   | (DC)  | CHARACTER  | 8   | UCMEPS_LU_PREDEF      | SMCS Predefined with this LU name                                                       |
| 228                                                                   | (E4)  | CHARACTER  | 36  | UCMEPS_BIND           | SMCS Bind Parameters                                                                    |
| 264                                                                   | (108) | ADDRESS    | 4   | UCMEPS_SAVED_XB       | Saved UCMXB address for SMCS cleanup routine                                            |
| 268                                                                   | (10C) | SIGNED     | 4   | UCMEPS_SAVED_TUL      | Saved UCMEPTUL value for SMCS cleanup routine                                           |
| 272                                                                   | (110) | CHARACTER  | 8   |                       | Reserved                                                                                |
| 272                                                                   | (110) | X'118'     | 0   | UCMEPLEN              | **"-UCMEPEXT" - LENGTH OF A UCME PAGEABLE EXTENSION (MDC365)                            |

UCM Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| MCSUCM   | 0          | 0         | UCMAUTH  | 28         |           |
| UCM      | 0          |           | UCMAUTHA | 28         | 0         |
| UCMABUFF | 45         | 10        | UCMAUTHB | 29         | 0         |
| UCMAECB  | 4          | 0         | UCMAUTH1 | 28         | 80        |
| UCMAECBA | C          |           | UCMAUTH2 | 28         | 40        |
| UCMAF    | 18         | 80        | UCMAUTH3 | 28         | 20        |
| UCMAHERE | 21         | 20        | UCMBF    | 18         | 20        |
| UCMALTEN | 2C         |           | UCMBFEXT | F0         |           |
| UCMAMFA  | 44         | 8         | UCMBMPFS | ED         | 50        |
| UCMAMRF  | 45         | 0         | UCMBRDST | 15C        | 0         |
| UCMAMRFA | 45         | 80        | UCMCBID  | 140        | E4C3D440  |
| UCMAMRFC | 45         | 8         | UCMCF    | 18         | 10        |
| UCMAMRFF | 45         | 40        | UCMCHKHG | F8         | 1E        |
| UCMAMRFR | 45         | 2         | UCMCMDPT | 13C        |           |
| UCMAMRMX | 12E        | 1FDC      | UCMCMDQR | 134        |           |
| UCMASCB  | 118        |           | UCMCMD   | 58         | 0         |
| UCMATR   | 19         |           | UCMCOMPC | 38         |           |
| UCMAT04  | 19         | 4         | UCMCONVP | 130        |           |

## UCM Cross Reference

| Name                   | Hex Offset | Hex Value | Name                    | Hex Offset | Hex Value |
|------------------------|------------|-----------|-------------------------|------------|-----------|
| UCMCPFTA               | B0         |           | UCMEFCNM                | 34         |           |
| UCMCQECF               | 154        | 0         | UCMEFCNN                | E          |           |
| UCMCTIC                | 44         | 80        | UCMEFCNR                | D          |           |
| UCMCTID                | FA         | 0         | UCMEFCQE                | 30         |           |
| UCMCUCME               | 84         |           | UCMEFCSA                | 15         | 40        |
| UCMDCB                 | 8          |           | UCMEFDVX                | 9          |           |
| UCMDECB                | C          |           | UCMEFEXT                | 0          |           |
| UCMDECB                | 14         |           | UCMEFHXY                | 13         | 8         |
| UCMDEVA                | 3F         | 80        | UCMEFLBC                | A          | 4         |
| UCMDEVB                | 3F         | 40        | UCMEFLCE                | A          | 20        |
| UCMDEVC                | 3F         |           | UCMEFLE                 | A          | 10        |
| UCMDEVCC               | 3F         | 20        | UCMEFLEN                | 5C         | 6C        |
| UCMDEVD                | 3F         | 10        | UCMEFLGA                | 0          | 80        |
| UCMDEVE                | 3F         | 8         | UCMEFLGB                | 0          | 40        |
| UCMDEVF                | 3F         | 4         | UCMEFLGC                | 0          | 20        |
| UCMDEVG                | 3F         | 2         | UCMEFLGD                | 0          | 10        |
| UCMDIDCS               | 21         |           | UCMEFLGE                | 0          | 8         |
| UCMDIDL                | 58         |           | UCMEFLG1                | 0          |           |
| UCMDISP                | 2A         |           | UCMEFLG2                | 1          |           |
| UCMDISPA               | 2A         | 80        | UCMEFLI                 | A          | 8         |
| UCMDISPB               | 2A         | 40        | UCMEFLIA                | A          | 40        |
| UCMDISPC               | 2A         | 20        | UCMEFLOG                | 1          | 10        |
| UCMDISPD               | 2A         | 10        | UCMEFLR                 | A          | 80        |
| UCMDISPE               | 2A         | 8         | UCMEFLRQ                | 1          | 40        |
| UCMDISPF               | 2A         | 4         | UCMEFLVL                | A          |           |
| UCMDISPG               | 2A         | 2         | UCMEFL1                 | A          |           |
| UCMDISPH               | 2A         | 1         | UCMEFL2                 | B          |           |
| UCMDISPI               | 2B         | 80        | UCMEFL3                 | 15         |           |
| UCMDISPJ               | 2B         | 40        | UCMEFMSA                | 15         | 80        |
| UCMDISPK               | 2B         | 20        | UCMEFMSC                | 13         |           |
| UCMDISPL               | 2B         | 10        | UCMEFMS3                | 13         | 20        |
| UCMDISPM               | 2B         | 8         | UCMEFNSC                | 12         |           |
| UCMDISPN               | 2B         | 4         | UCMEFPAL                | 1          | 2         |
| UCMDISPX               | 2B         | 2         | UCMEFPEX                | 4          |           |
| UCMDISP1               | 2A         |           | UCMEFPNS                | 14         |           |
| UCMDISP2               | 2B         |           | UCMEFRC                 | 18         |           |
| UCMDOME                | 4C         |           | UCMEFRV2                | 16         |           |
| UCMDOMLE               | 54         |           | UCMEFS_CID              | 58         |           |
| UCMDOMT                | 64         |           | UCMEFS_CLSDST_QUERY_RPL |            |           |
| UCMDUCBA               | 80         |           |                         | 54         |           |
| UCMEALOG               | 1          | 8         | UCMEFS_RCVRPL           |            |           |
| UCMECB                 | 0          |           |                         | 50         |           |
| UCMECBFA               | 0          | FA        | UCMEFS_SNDRPL           |            |           |
| UCMECBFB               | 0          | FB        |                         | 4C         |           |
| UCMECBFC               | 0          | FC        | UCMEFSA1                | 3          |           |
| UCMECBFD               | 0          | FD        | UCMEFSA2                | 8          |           |
| UCMECBFE               | 0          | FE        | UCMEFSDL                | 3C         |           |
| UCMECBFF               | 0          | FF        | UCMEFSEC                | 40         |           |
| UCMECBF9               | 0          | F9        | UCMEFSTW                | 1          | 80        |
| UCMEDEVX               | 1B         |           | UCMEFUD                 | 13         | 80        |
| UCMEF_AUTOLOG_REQUIRED | 0          | 1         | UCMEFUDO                | 13         | 40        |
| UCMEF_LOGON_OPTIONAL   | 0          | 4         | UCMEFUID                | 44         |           |
| UCMEF_LOGON_REQUIRED   | 0          | 2         | UCMEFUTM                | 10         |           |
| UCMEFAIL               | 21         | 8         | UCMEGCHG                | 21         | 80        |
| UCMEFALG               | 1          | 20        | UCMEIL                  | 0          |           |
| UCMEFALL               | 1          | 4         | UCMEMCLS                | 18         | 2         |
| UCMEFATT               | 2          |           | UCMEND                  | 4C         | 0         |
| UCMEFAUT               | 13         | 10        | UCMENFDM                | 9D         | 10        |
| UCMEFBUP               | 2C         |           | UCMENGUP                | 21         | 40        |
| UCMEFCMQ               | 28         |           | UCMENHR                 | 28         | 40        |
| UCMEFCN                | C          |           | UCMEPA                  | 4C         |           |
| UCMEFCNC               | C          |           | UCMEPADD                | 4C         | 40        |
|                        |            |           | UCMEPAID                | 8          |           |
|                        |            |           | UCMEPAIN                | C          | 80        |
|                        |            |           | UCMEPALG                | 70         |           |



| Name                  | Hex Offset | Hex Value | Name                      | Hex Offset | Hex Value |
|-----------------------|------------|-----------|---------------------------|------------|-----------|
| UCMEPALT              | 44         |           | UCMEPSEG                  | 2D         |           |
| UCMEPARD              | 1A         |           | UCMEPSFC                  | 6C         |           |
| UCMEPARE              | 1C         |           | UCMEPSNL                  | A8         |           |
| UCMEPASV              | C          | 10        | UCMEPSNM                  | 57         |           |
| UCMEPAUT              | A          |           | UCMEPSRC                  | 34         |           |
| UCMEPCKT              | 78         |           | UCMEPSTC                  | 68         |           |
| UCMEPCOL              | B9         |           | UCMEPSYS                  | A0         |           |
| UCMEPCON              | 27         |           | UCMEPTFL                  | C          | 40        |
| UCMEPCS               | 5F         |           | UCMEPTOK                  | B0         |           |
| UCMEPDEL              | 28         |           | UCMEPTUL                  | 30         |           |
| UCMEPEDS              | C          | 8         | UCMEPUSE                  | 4C         | 80        |
| UCMEPEXT              | 0          |           | UCMES_ACTVE               | 22         | 20        |
| UCMEPG1               | C          |           | UCMES_ALLOC               | 22         | 40        |
| UCMEPG4               | F          |           | UCMES_CLEANUP_IN_PROGRESS |            |           |
| UCMEPFKM              | 18         |           |                           | 22         | 10        |
| UCMEPFKT              | 10         |           | UCMES_DEVICE_WAS_BUSY     |            |           |
| UCMEPFSY              | 2E         |           |                           | 22         | 4         |
| UCMEPGRP              | 67         |           | UCMES_FLAGS               | 22         |           |
| UCMEPLEN              | 110        | 118       | UCMES_LOGOFF_IN_PROGRESS  |            |           |
| UCMEPMJ               | D          | 80        |                           | 22         | 8         |
| UCMEPMNR              | 67         |           | UCMES_SMCS                | 22         | 80        |
| UCMEPMON              | D          |           | UCMESIZE                  | 4C         | 50        |
| UCMEPMS               | D          | 4         | UCMETIOE                  | AC         |           |
| UCMEPMST              | D          | 40        | UCMEXSSI                  | 45         | 4         |
| UCMEPMTM              | D          | 2         | UCMFAMRN                  | 44         |           |
| UCMEPMTR              | D          |           | UCMFAMRP                  | 34         |           |
| UCMEPMT2              | E          |           | UCMFAMRQ                  | 34         |           |
| UCMEPM02              | D          | 20        | UCMFAMRS                  | 4E         |           |
| UCMEPM03              | D          | 10        | UCMFATCN                  | 24         |           |
| UCMEPM04              | D          | 8         | UCMFCAMQ                  | 60         |           |
| UCMEPM07              | D          | 1         | UCMFCCEP                  | C4         |           |
| UCMEPNME              | 0          |           | UCMFCLAD                  | EC         |           |
| UCMEPPOB              | C          | 20        | UCMFCLRA                  | 58         |           |
| UCMEPRBF              | 2F         |           | UCMFCLTP                  | BC         |           |
| UCMEPRNM              | 2C         |           | UCMFCLTS                  | C8         |           |
| UCMEPROW              | B8         |           | UCMFCMDL                  | 94         |           |
| UCMEPRTM              | 2A         |           | UCMFCMIN                  | B          | 40        |
| UCMEPS_BIND           | E4         |           | UCMFCMTP                  | AC         |           |
| UCMEPS_CNSW_INVOKED   |            |           | UCMFCQSD                  | A          | 10        |
|                       | BB         | 80        | UCMFCSAA                  | 14C        |           |
| UCMEPS_EXLST          | C8         |           | UCMFCSAL                  | 150        |           |
| UCMEPS_FLAGS          | BB         |           | UCMFCSTP                  | B8         |           |
| UCMEPS_LPAB_ADDR      |            |           | UCMFCSYN                  | E0         |           |
|                       | CC         |           | UCMFCTCA                  | 148        |           |
| UCMEPS_LPAB_LEN       |            |           | UCMFCWKP                  | 144        |           |
|                       | D0         |           | UCMFDMPA                  | F0         |           |
| UCMEPS_LU_PREDEF      |            |           | UCMFDSQN                  | 70         |           |
|                       | DC         |           | UCMFEAMQ                  | 3C         |           |
| UCMEPS_LUNAME         |            |           | UCMFEBSZ                  | 4F         |           |
|                       | D4         |           | UCMFECBL                  | 1C         |           |
| UCMEPS_LUTYPE         |            |           | UCMFELEN                  | 2C         |           |
|                       | BA         |           | UCMFEFELST                | 30         |           |
| UCMEPS_LU0            | BA         | 80        | UCMFEQSD                  | A          | 20        |
| UCMEPS_LU2            | BA         | 20        | UCMFEXTA                  | 0          |           |
| UCMEPS_MID_OF_BRACKET |            |           | UCMFEXTP                  | 48         |           |
|                       | BB         | 10        | UCMFE1ST                  | 28         |           |
| UCMEPS_NIB            | C4         |           | UCMFFLG1                  | 8          |           |
| UCMEPS_SAVED_TUL      |            |           | UCMFFLG2                  | 9          |           |
|                       | 10C        |           | UCMFFLG3                  | A          |           |
| UCMEPS_SAVED_XB       |            |           | UCMFHCDA                  | 8C         |           |
|                       | 108        |           | UCMFHCRT                  | 74         |           |
| UCMEPS_VCBADR         |            |           | UCMFHCUD                  | 1A         | 20        |
|                       | BC         |           | UCMFHOLD                  | B          | 10        |
| UCMEPS_VCBLEN         |            |           | UCMFHPRT                  | 98         |           |
|                       | C0         |           | UCMFIAMQ                  | 38         |           |

## UCM Cross Reference

| Name                          | Hex Offset | Hex Value | Name      | Hex Offset | Hex Value |
|-------------------------------|------------|-----------|-----------|------------|-----------|
| UCMFIBSZ                      | 4C         |           |           | 164        | FD        |
| UCMFIQSD                      | A          | 40        | UCMFSAVE  | 0          |           |
| UCMFLOGA                      | B          | 2         | UCMFSAVP  | 50         |           |
| UCMFLOGR                      | B          | 4         | UCMFSMTPA | B4         |           |
| UCMFLSTN                      | 88         |           | UCMFSNL   | 1B         |           |
| UCMFMGFS                      | 8          |           | UCMFSRB   | 118        |           |
| UCMFMISC                      | B          |           | UCMFSTAT  | 44         | 2         |
| UCMFMIS2                      | 1A         |           | UCMFST2A  | 10C        |           |
| UCMFMIS3                      | 95         |           | UCMFSUBA  | 90         |           |
| UCMFMITP                      | C0         |           | UCMFSVDM  | 6D         |           |
| UCMFMIX                       | 1A         | 4         | UCMFSVLN  | 44         | 48        |
| UCMFMLSS                      | 1A         | 10        | UCMFSV01  | 0          |           |
| UCMFMPFP                      | 54         |           | UCMFSV02  | 4          |           |
| UCMFMSSGA                     | 8          | 40        | UCMFSV03  | 8          |           |
| UCMFMSSGB                     | 9          | 8         | UCMFSV04  | C          |           |
| UCMFMSSGC                     | 9          | 2         | UCMFSV05  | 10         |           |
| UCMFMSSGE                     | 8          | 80        | UCMFSV06  | 14         |           |
| UCMFMSSGN                     | 8          | 20        | UCMFSV07  | 18         |           |
| UCMFMSSG1                     | 8          | 10        | UCMFSV08  | 1C         |           |
| UCMFMSSG2                     | 8          | 8         | UCMFSV09  | 20         |           |
| UCMFMSSG3                     | 8          | 4         | UCMFSV10  | 24         |           |
| UCMFMSSG4                     | 8          | 2         | UCMFSV11  | 28         |           |
| UCMFMSSG5                     | 8          | 1         | UCMFSV12  | 2C         |           |
| UCMFMSSG6                     | 9          | 80        | UCMFSV13  | 30         |           |
| UCMFMSSG7                     | 9          | 40        | UCMFSV14  | 34         |           |
| UCMFMSSG8                     | 9          | 20        | UCMFSV15  | 38         |           |
| UCMFMSSG9                     | 9          | 10        | UCMFSV16  | 3C         |           |
| UCMFOLRP                      | D0         |           | UCMFSV17  | 40         |           |
| UCMFOMD                       | CC         |           | UCMFSV18  | 44         |           |
| UCMFPCMP                      | 1A         | 2         | UCMFSYID  | 6C         |           |
| UCMFPCOK                      | 1A         | 80        | UCMFSYNL  | 1A         | 8         |
| UCMFPOMR                      | A8         |           | UCMFSYNM  | 64         |           |
| UCMFPPTR                      | 4          |           | UCMFTSWA  | 100        |           |
| UCMFPUCM                      | 114        |           | UCMFUCMF  | 0          |           |
| UCMFRACT                      | B          | 1         | UCMFUDTK  | FC         |           |
| UCMFRDA                       | D8         |           | UCMFUD1   | 1A         | 40        |
| UCMFRCT                       | D4         |           | UCMFUMPF  | 9          | 4         |
| UCMFRCTM                      | F4         |           | UCMFUTOK  | C          |           |
| UCMFRMCP                      | 40         |           | UCMFWCTA  | 108        |           |
| UCMFRQSD                      | A          | 80        | UCMFWQEC  | 104        |           |
| UCMFRRAD                      | 120        |           | UCMFWQES  | 20         |           |
| UCMFRSVD                      | A          | 8         | UCMFWRID  | B          | 80        |
| UCMFRSVE                      | A          | 4         | UCMFWVVP  | DC         |           |
| UCMFRSVF                      | A          | 2         | UCMFXAD   | 1D         |           |
| UCMFRSVG                      | A          | 1         | UCMFXBYT  | 1C         |           |
| UCMFRSVH                      | B          | 20        | UCMFXB0   | 1C         | 80        |
| UCMFRSVI                      | F8         |           | UCMFXECB  | 1C         |           |
| UCMFRSV4                      | 96         |           | UCMF043D  | 84         |           |
| UCMFRXAD                      | E8         |           | UCMF4RSV  | B          | 8         |
| UCMFS_CPME                    | 158        |           | UCMF440   | 1A         | 1         |
| UCMFS_CPME_CONTRACT_CELL_POOL | 164        | F9        | UCMF60OR  | 16         |           |
| UCMFS_CPME_EXPAND_CELL_POOL   | 164        | FA        | UCMF60WQ  | 10         |           |
| UCMFS_HT_ECB                  | 15C        |           | UCMF606   | 110        |           |
| UCMFS_HT_TERME                | 160        |           | UCMF65BL  | 95         | 80        |
| UCMFS_TERME                   | 154        |           | UCMF75MR  | 46         |           |
| UCMFS_TERME_OK_2_CLOSE        | 164        | FB        | UCMF80MR  | 48         |           |
| UCMFS_TERME_TPEND_HALT        | 164        | FE        | UCMF80OR  | 18         |           |
| UCMFS_TERME_TPEND_HALT_CANCEL | 164        | FC        | UCMF80WQ  | 12         |           |
| UCMFS_TERME_TPEND_HALT_QUICK  |            |           | UCMF85BL  | 95         | 40        |
|                               |            |           | UCMF95MR  | 4A         |           |
|                               |            |           | UCMF95WQ  | 14         |           |
|                               |            |           | UCMGENXP  | 5C         |           |
|                               |            |           | UCMGLBCH  | 19         | 1         |
|                               |            |           | UCMHCENT  | 47         | 10        |
|                               |            |           | UCMHCUCM  | 5C         |           |

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| UCMID    | 1A         |           | UCMOPSD  | 8C         | 10        |
| UCMIECBA | 1C         |           | UCMOPSEA | 8C         | 8         |
| UCMIECBE | 1C         | 80        | UCMOPSEC | 60         |           |
| UCMIECBF | 1C         |           | UCMOPSEO | 88         | 0         |
| UCMIECBP | 1D         |           | UCMOPSEP | 98         |           |
| UCMIF    | 19         | 40        | UCMOPSES | 94         |           |
| UCMINCLR | 19         | 2         | UCMOPSET | 90         |           |
| UCMINTCB | 148        |           | UCMOPSS  | 8C         | 80        |
| UCMINUSE | 21         | 10        | UCMOPSV  | 8C         | 20        |
| UCMJES3T | 128        |           | UCMOPS5  | 8C         | 4         |
| UCMJ3CBS | 9D         | 80        | UCMOPS6  | 8C         | 2         |
| UCMJ3SAE | 9D         | 40        | UCMOPS7  | 8C         | 1         |
| UCMLECB  | C          | 0         | UCMORECP | 110        | 0         |
| UCMLF    | 19         | 8         | UCMOUTQ  | 24         |           |
| UCMLIST  | 0          |           | UCMOVRDE | 47         | 80        |
| UCMLOGS  | 47         | 40        | UCMOWTOR | 68         |           |
| UCMLOGSW | 61         | 40        | UCMPAMRC | 18         |           |
| UCMLSTP  | 14         |           | UCMPAMRF | 1C         |           |
| UCMMBEND | FC         |           | UCMPAMRI | D8         |           |
| UCMMBPTR | E8         |           | UCMPAMRN | 54         |           |
| UCMMCENT | 0          |           | UCMPAMRP | 48         |           |
| UCMMD202 | 47         | 20        | UCMPAMRQ | 48         |           |
| UCMMD204 | 47         | 8         | UCMPAMRR | 20         |           |
| UCMMD205 | 47         | 4         | UCMPAMRS | 14         |           |
| UCMMD206 | 47         | 2         | UCMPATCN | 7C         |           |
| UCMMD207 | 47         | 1         | UCMPCAMQ | 64         |           |
| UCMMFLG3 | 61         |           | UCMPCICP | B0         |           |
| UCMMFLG4 | 8C         |           | UCMPCNEV | 150        |           |
| UCMMISCF | 9D         |           | UCMPCNXX | B4         |           |
| UCMMLAST | 40         |           | UCMPCQSD | 56         | 10        |
| UCMMNECB | D4         | 0         | UCMPCTRP | 120        |           |
| UCMMNTR  | D0         |           | UCMPCTSC | 198        |           |
| UCMMODE  | 44         |           | UCMPDCDM | 188        |           |
| UCMMODE2 | 47         | 0         | UCMPDMMH | D0         |           |
| UCMMPFSN | 144        |           | UCMPDMLL | D0         |           |
| UCMMQEND | E0         |           | UCMPDMMS | D1         |           |
| UCMMQNXT | E4         |           | UCMPDMSG | 18C        |           |
| UCMMQPTR | DC         |           | UCMPDMSH | E8         |           |
| UCMMRSV2 | 61         | 20        | UCMPDMSL | E9         |           |
| UCMMRSV3 | 61         | 10        | UCMPDMSN | E8         |           |
| UCMMRSV4 | 61         | 8         | UCMPDMUD | CC         |           |
| UCMMRSV5 | 61         | 4         | UCMPDMUH | CC         |           |
| UCMMRSV6 | 61         | 2         | UCMPDMUS | CD         |           |
| UCMMRSV7 | 61         | 1         | UCMPDM1  | 4          |           |
| UCMMSG   | 3C         |           | UCMPEAMQ | 50         |           |
| UCMMSGA  | 3C         | 80        | UCMPECBA | C4         |           |
| UCMMSGB  | 3C         | 40        | UCMPECBB | C8         |           |
| UCMMSGD  | 3C         | 10        | UCMPECBC | 90         |           |
| UCMMSGF  | 3C         | 4         | UCMPECBD | F4         |           |
| UCMMSGG  | 3C         | 2         | UCMPECBE | 130        |           |
| UCMMSG1  | 3C         |           | UCMPECBF | 134        |           |
| UCMMSG2  | 3D         |           | UCMPECBM | 3C         |           |
| UCMMTSRP | 164        |           | UCMPECBU | 144        |           |
| UCMNAME  | 10         |           | UCMPECBX | 140        |           |
| UCMNHOLD | 9          | 1         | UCMPECB1 | 40         |           |
| UCMNIPD  | 62         |           | UCMPECB2 | 44         |           |
| UCMNWTOP | 168        |           | UCMPECB3 | 8C         |           |
| UCMOAOEN | 30         |           | UCMPECB4 | A0         |           |
| UCMOECB  | 8          | 0         | UCMPECB5 | A4         |           |
| UCMOECBA | 10         |           | UCMPECB6 | A8         |           |
| UCMOECBH | 108        |           | UCMPECB7 | B8         |           |
| UCMOECBT | 10C        |           | UCMPECB8 | C0         |           |
| UCMOF    | 19         | 80        | UCMPECB9 | 9C         |           |
| UCMOGCE  | 44         | 4         | UCMPECEV | 154        |           |
| UCMOPSA  | 8C         | 40        | UCMPELEN | 34         |           |

## UCM Cross Reference

| Name          | Hex Offset | Hex Value | Name                          | Hex Offset | Hex Value |
|---------------|------------|-----------|-------------------------------|------------|-----------|
| UCMPELST      | 38         |           | UCMPS_APPLID                  | 1E1        |           |
| UCMPEQSD      | 56         | 20        | UCMPS_APPLID_AREA             |            |           |
| UCMPEXTA      | 0          |           |                               | 1E0        |           |
| UCMPE1ST      | 30         |           | UCMPS_APPLID_INUSEBY_AREA     |            |           |
| UCMPF         | 18         | 40        |                               | 1E9        |           |
| UCMPFLG1      | 60         |           | UCMPS_APPLID_INUSEBY_LEN      |            |           |
| UCMPFPTR      | E0         |           |                               | 1E9        |           |
| UCMPFTOD      | DC         |           | UCMPS_APPLID_INUSEBY_SYSTEM   |            |           |
| UCMPGECB      | 17C        |           |                               | 1EA        |           |
| UCMPHCP       | 100        |           | UCMPS_APPLID_LEN              |            |           |
| UCMPHUNG      | 14C        |           |                               | 1E0        |           |
| UCMPIAMQ      | 4C         |           | UCMPS_CB818_ADDR              |            |           |
| UCMPIQSD      | 56         | 40        |                               | 250        |           |
| UCMPIRQP      | 94         |           | UCMPS_CB825_ADDR              |            |           |
| UCMPLOCO      | 60         | 4         |                               | 24C        |           |
| UCMPLOGL      | 118        |           | UCMPS_CLNUP                   |            | 1B8       |
| UCMPLT80      | 84         |           | UCMPS_CLSEXIT                 |            |           |
| UCMPL100      | 88         |           |                               | 1C0        |           |
| UCMPMDEV      | E4         |           | UCMPS_DISPLAY_DSP_ADDR        |            |           |
| UCMPMDV1      | E4         |           |                               | 228        |           |
| UCMPMDV3      | E5         |           | UCMPS_DISPLAY_DSP_NAME        |            |           |
| UCMPMEST      | 12C        |           |                               | 220        |           |
| UCMPMFRR      | 128        |           | UCMPS_DOMID_APPLID            |            |           |
| UCMPMMSM      | 82         |           |                               | 23C        |           |
| UCMPMPFD      | 24         |           | UCMPS_DOMID_GENERIC           |            |           |
| UCMPMPFM      | 11C        |           |                               | 238        |           |
| UCMPMSYN      | EC         |           | UCMPS_DOMID_IEE823E           |            |           |
| UCMPNCC       | C          |           |                               | 264        |           |
| UCMPNECB      | 98         |           | UCMPS_DOMID_WAIT_4_ACTIVATION |            |           |
| UCMPNMCC      | 8          |           |                               | 240        |           |
| UCMPNOCC      | 110        |           | UCMPS_EOT_ECB                 |            |           |
| UCMPOREC      | 28         |           |                               | 208        |           |
| UCMPORES      | 2C         |           | UCMPS_EXITLST                 |            |           |
| UCMPOWCP      | 244        |           |                               | 1C8        |           |
| UCMPPART      | BC         |           | UCMPS_EXLST_LEN               |            |           |
| UCMPPFKC      | 60         | 20        |                               | 21C        |           |
| UCMPPFKM      | 62         |           | UCMPS_GENERIC_INUSEBY_SYSTEM  |            |           |
| UCMPPFKT      | 78         |           |                               | 1FA        |           |
| UCMPQWRR      | 58         |           | UCMPS_GENRCID                 |            |           |
| UCMPRACN      | 158        |           |                               | 1F2        |           |
| UCMPRANM      | 15C        |           | UCMPS_HT_SUBTASK_TCB          |            |           |
| UCMPRCCA      | 168        |           |                               | 268        |           |
| UCMPRCLC      | 170        |           | UCMPS_LGLEXIT                 |            |           |
| UCMPRCNI      | 164        |           |                               | 1A8        |           |
| UCMPRCPI      | 190        |           | UCMPS_LGNEXIT                 |            |           |
| UCMPRECB      | 178        |           |                               | 19C        |           |
| UCMPRFX       | 0          |           | UCMPS_LPAB_RQ                 |            |           |
| UCMPRFXP      | A4         |           |                               | 204        |           |
| UCMPROUT      | B6         |           | UCMPS_LSTEXIT                 |            |           |
| UCMPRQSD      | 56         | 80        |                               | 1AC        |           |
| UCMPRSVB      | 191        |           | UCMPS_MAINRTN_TCB             |            |           |
| UCMPRSVD      | 26C        |           |                               | 1DC        |           |
| UCMPRSV1      | AC         |           | UCMPS_MSTR_LU                 |            |           |
| UCMPRSV3      | 61         |           |                               | 20C        |           |
| UCMPRSV4      | 56         | 8         | UCMPS_NIB_LEN                 |            |           |
| UCMPRSV5      | 56         | 4         |                               | 218        |           |
| UCMPRSV6      | 56         | 2         | UCMPS_NIBADDR                 |            |           |
| UCMPRSV7      | 56         | 1         |                               | 1D0        |           |
| UCMPRSV8      | 57         |           | UCMPS_RCVEXIT                 |            |           |
| UCMPRSV9      | 80         |           |                               | 1BC        |           |
| UCMPRTHC      | 9C         | 4         | UCMPS_RPL_LEN                 |            |           |
| UCMPRTQE      | 138        |           |                               | 214        |           |
| UCMPRTQS      | 13C        |           | UCMPS_RSPEXIT                 |            |           |
| UCMPS_ACBADDR |            |           |                               | 1B0        |           |
|               | 1C4        |           | UCMPS_SETLRPL                 |            |           |

| Name                     | Hex Offset | Hex Value | Name                       | Hex Offset | Hex Value |
|--------------------------|------------|-----------|----------------------------|------------|-----------|
|                          | 1CC        |           | UCMRPYLV                   | 5C         | 0         |
| UCMPS_SMCS_ACTIVE        | 26C        | 4         | UCMRPYQ                    | 1C         |           |
| UCMPS_SMCS_CP_ADDR       | 260        |           | UCMRPY0I                   | 28         | 80        |
| UCMPS_SMCS_INITIALIZING  | 26C        | 1         | UCMRP2AD                   | F4         |           |
| UCMPS_SMCS_NOT_ACTIVE    | 26C        | 0         | UCMRQLM                    | 2C         | 0         |
| UCMPS_SMCS_SHUTTING_DOWN | 26C        | 5         | UCMRQNR                    | 38         | 0         |
| UCMPS_SMCS_TERMINATING   | 26C        | 6         | UCMRSV0B                   | 9D         | 2         |
| UCMPS_SMCS_WAIT_4_APPLID | 26C        | 3         | UCMRSV0C                   | 9D         | 1         |
| UCMPS_SMCS_WAIT_4_VTAM   | 26C        | 2         | UCMRSV08                   | 9C         | 2         |
| UCMPS_SNDEXIT            | 1B4        |           | UCMRSV09                   | 9C         | 1         |
| UCMPS_STATUS             | 202        |           | UCMRSV15                   | 3          | 0         |
| UCMPS_SWCB_ADDR          | 254        |           | UCMRSV19                   | 28         | 10        |
| UCMPS_SWCS_ADDR          | 258        |           | UCMRSV20                   | 28         | 8         |
| UCMPS_SYMREC_ADDR        | 25C        |           | UCMRSV21                   | 28         | 4         |
| UCMPS_SYNEXIT            | 1A4        |           | UCMRSV22                   | 28         | 2         |
| UCMPS_TPDEXIT            | 1A0        |           | UCMRSV23                   | 28         | 1         |
| UCMPS_VCBADDR            | 1D4        |           | UCMRSV27                   | 3C         | 1         |
| UCMPS_VCBLEN             | 1D8        |           | UCMRSV30                   | 20         | 8         |
| UCMPS_VM200_ADDR         | 248        |           | UCMRSV31                   | 20         | 1         |
| UCMPSNQB                 | 56         |           | UCMRSV42                   | 12C        | 0         |
| UCMPSTKN                 | F8         |           | UCMRSV43                   | 12C        | 80        |
| UCMPSWCC                 | 60         | 8         | UCMRSV44                   | 12C        | 40        |
| UCMPSWCH                 | 60         | 10        | UCMRSV45                   | 12C        | 20        |
| UCMPSWCT                 | 180        |           | UCMRSV46                   | 12C        | 10        |
| UCMPSWRK                 | 5C         |           | UCMRSV47                   | 12C        | 8         |
| UCMPSYN                  | 108        |           | UCMRSV48                   | 12C        | 4         |
| UCMPTCBU                 | 148        |           | UCMRSV49                   | 12C        | 2         |
| UCMPTRDM                 | 194        |           | UCMRSV50                   | 12C        | 1         |
| UCMPUCMP                 | 0          |           | UCMRSV51                   | 12D        | 0         |
| UCMPUXIT                 | 60         | 40        | UCMRSV52                   | 12D        | 80        |
| UCMPWERA                 | 60         | 80        | UCMRSV53                   | 12D        | 40        |
| UCMPWQAB                 | 184        |           | UCMRSV54                   | 12D        | 20        |
| UCMPWQE                  | 4          |           | UCMRSV55                   | 12D        | 10        |
| UCMPWQES                 | 10         |           | UCMRSV56                   | 12D        | 8         |
| UCMPXA                   | 40         |           | UCMRSV57                   | 12D        | 4         |
| UCMPXB                   | 44         |           | UCMRSV58                   | 12D        | 2         |
| UCMPXITA                 | 60         | 2         | UCMRSV59                   | 12D        | 1         |
| UCMPXTDF                 | 60         | 1         | UCMRSV62                   | 1          | 0         |
| UCMP7603                 | D4         |           | UCMRSV65                   | 9E         | 0         |
| UCMQSCAN                 | 138        |           | UCMRSV67                   | 15E        | 0         |
| UCMRCT                   | 44         |           | UCMRSV69                   | 8D         |           |
| UCMREFSH                 | 61         | 80        | UCMRSV70                   | 3C         | 20        |
| UCMRMAX                  | 24         | 0         | UCMRSV71                   | 3C         | 8         |
| UCMRPYF                  | 28         |           | UCMRSV73                   | 10         |           |
| UCMRPYF1                 | 28         | 0         | UCMRSV74                   | 14         |           |
| UCMRPYF2                 | 29         | 0         | UCMRSV77                   | 7C         | 0         |
| UCMRPYIL                 | 2A         | 0         | UCMRSV78                   | 45         | 20        |
| UCMRPYIP                 | 20         |           | UCMRSV81                   | 45         | 1         |
| UCMRPYL                  | 4          | 0         | UCMRSV85                   | 2          | 0         |
|                          |            |           | UCMRSV86                   | 23         |           |
|                          |            |           | UCMRSV90                   | EC         | 0         |
|                          |            |           | UCMRTCT                    | 2          | 0         |
|                          |            |           | UCMRV008                   | 8          | 1         |
|                          |            |           | UCMRWCLE                   | 1B         | 1D        |
|                          |            |           | UCMRWCLN                   | 1B         | 1E        |
|                          |            |           | UCMR0MSG                   | 160        | 0         |
|                          |            |           | UCMR9SV                    | CC         | 0         |
|                          |            |           | UCMS_FAILURE_STATUS        |            |           |
|                          |            |           | UCMS_SMCS_ACTIVE           | 5D         | 0         |
|                          |            |           |                            | 5D         | 80        |
|                          |            |           | UCMS_SMCS_CLOSING_ABNORMAL | 5D         | 10        |
|                          |            |           | UCMS_SMCS_CLOSING_FAILURE  | 5D         | 8         |

## UCM Cross Reference

| Name                      | Hex Offset | Hex Value | Name      | Hex Offset | Hex Value |
|---------------------------|------------|-----------|-----------|------------|-----------|
| UCMS_SMCS_CLOSING_NORMAL  | 5D         | 40        | UCMSYSE   | 54         | 8         |
| UCMS_SMCS_CLOSING_QUICK   | 5D         | 20        | UCMSYSF   | 54         | 4         |
| UCMS_SMCS_FAILED          | 5D         | 4         | UCMSYSG   | 54         | 2         |
| UCMS_SMCS_FAILED_NO_RETRY | 5D         | 2         | UCMSYSH   | 54         | 1         |
| UCMS_VTAM_ACCESS_WAITTIME | 5E         | F1F5      | UCMSYSHC  | 54         | 80        |
| UCMSAVE0                  | 4          |           | UCMSYSI   | 55         | 80        |
| UCMSAVE4                  | 8C         | 0         | UCMSYSJ   | 55         | 40        |
| UCMSBPTR                  | 16C        |           | UCMSYSK   | 55         | 20        |
| UCMSBR                    | 4          |           | UCMSYSL   | 55         | 10        |
| UCMSDS1                   | 9C         |           | UCMSYSM   | 55         | 8         |
| UCMSDS1A                  | 9C         | 80        | UCMSYSN   | 55         | 4         |
| UCMSDS1B                  | 9C         | 40        | UCMSYSO   | 55         | 2         |
| UCMSDS1C                  | 9C         | 20        | UCMSYSP   | 55         | 1         |
| UCMSDS1D                  | 9C         | 10        | UCMTA     | 18         | 8         |
| UCMSDS1E                  | 9C         | 8         | UCMTB     | 18         | 4         |
| UCMSDS5                   | 20         | 0         | UCMTC     | 18         | 1         |
| UCMSDS5A                  | 20         | 80        | UCMTPUTA  | 44         | 20        |
| UCMSDS5B                  | 20         | 40        | UCMTRECB  | D8         | 0         |
| UCMSDS5C                  | 20         | 20        | UCMUCASZ  | 38         | 5E        |
| UCMSDS5D                  | 20         | 10        | UCMUCB    | C          |           |
| UCMSDS5F                  | 20         | 4         | UCMUECB   | 10         | 0         |
| UCMSDS5G                  | 20         | 2         | UCMUECBA  | 18         |           |
| UCMSFLGS                  | 54         |           | UCMUF     | 19         | 10        |
| UCMSFLG1                  | 54         |           | UCMULGTH  | 3A         | 50        |
| UCMSFLG2                  | 55         |           | UCMUSIZE  | 38         | 50        |
| UCMSPLXQ                  | 44         | 40        | UCMVDATA  | 48         |           |
| UCMSP13                   | 46         | 1         | UCMVEA    | 48         |           |
| UCMSP211                  | 46         | 2         | UCMVEL    | 50         |           |
| UCMSP220                  | 46         | 3         | UCMVEZ    | 4C         |           |
| UCMSP410                  | 46         | 4         | UCMVHRSN  | 3F         | 1         |
| UCMSP420                  | 46         | 5         | UCMV MPL  | 4C         |           |
| UCMSP422                  | 46         | 6         | UCMVRID   | 46         | 8         |
| UCMSP440                  | 46         | 7         | UCMVRSN   | 46         |           |
| UCMSP51X                  | 46         | 8         | UCMVSTKN  | 64         |           |
| UCMSSIBP                  | 158        | 0         | UCMVWTCB  | 14C        |           |
| UCMSTRNM                  | 6C         |           | UCMWAKUP  | 124        |           |
| UCMSTS                    | 18         |           | UCMW DONE | 9D         | 4         |
| UCMSVA0                   | 4          | 0         | UCMWECBH  | 100        |           |
| UCMSVB0                   | 8          | 0         | UCMWECBT  | 104        |           |
| UCMSVC0                   | C          | 0         | UCMWLAST  | 34         |           |
| UCMSVD0                   | 10         | 0         | UCMWQADA  | 150        |           |
| UCMSVE0                   | 14         | 0         | UCMWQCNT  | 30         |           |
| UCMSVF0                   | 18         | 0         | UCMWQECF  | 114        | 0         |
| UCMSVG0                   | 1C         | 0         | UCMWQEND  | 3C         | 0         |
| UCMSVH0                   | 20         | 0         | UCMWQLM   | 2E         | 0         |
| UCMSVI0                   | 24         | 0         | UCMWQLM1  | EE         | 0         |
| UCMSVJ0                   | 28         | 0         | UCMWQNR   | 34         | 0         |
| UCMSVK0                   | 2C         | 0         | UCMWQRSV  | 30         | 0         |
| UCMSVL0                   | 30         | 0         | UCMWTOQ   | 18         |           |
| UCMSVM0                   | 34         | 0         | UCMW TORT | 56         | 0         |
| UCMSVN0                   | 38         | 0         | UCMW TOX  | 50         |           |
| UCMSVO0                   | 3C         | 0         | UCMWU100  | 9D         | 20        |
| UCMSVP0                   | 40         | 0         | UCMWU400  | 9D         | 8         |
| UCMSVQ0                   | 44         | 0         | UCMXA     | 1A         |           |
| UCMSVR0                   | 48         | 0         | UCMXB     | 1C         |           |
| UCMSWCH                   | 11C        |           | UCMXCT    | 60         | 0         |
| UCMSYPLX                  | 44         | 10        | UCMXECB   | 0          | 0         |
| UCMSYSB                   | 54         | 40        | UCMXECBA  | 8          |           |
| UCMSYSC                   | 54         | 20        | UCMXF     | 19         | 20        |
| UCMSYSD                   | 54         | 10        | UCMXOR    | 3E         | 0         |
|                           |            |           | UCMXSA    | 68         |           |
|                           |            |           | UCM1SYS   | 44         | 1         |
|                           |            |           | UCM1WD    | 68         |           |
|                           |            |           | UCM2DRCS  | 0          | 0         |
|                           |            |           | UCM2DSTR  | 8          | 10        |

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| UCM2DTAK | 8          | 20        |
| UCM2EXT  | 0          |           |
| UCM2FAIL | 8          | 2         |
| UCM2PST  | 4          |           |
| UCM2PTR  | A0         |           |
| UCM2REC  | 8          | 4         |
| UCM2SDWA | 8          | 80        |
| UCM2SENT | 8          | 40        |
| UCM2SFLG | 8          | 0         |
| UCM2STA  | 8          |           |
| UCM2STAA | 9          |           |
| UCM2TOKN | C          | 0         |
| UCM2WD   | 6C         |           |
| UCM2WTOI | 8          | 8         |
| UCM2540  | 1B         | 3         |
| UCM2732E | 1B         | 16        |
| UCM2740  | 1B         | 4         |
| UCM3WD   | 70         |           |
| UCM3160E | 1B         | 18        |
| UCM3180E | 1B         | 17        |
| UCM3211  | 1B         | 6         |
| UCM3215  | 1B         | 7         |
| UCM3270X | 1B         | 15        |
| UCM32772 | 1B         | 9         |
| UCM32782 | 1B         | B         |
| UCM32783 | 1B         | D         |
| UCM32784 | 1B         | E         |
| UCM3284  | 1B         | 13        |
| UCM3782A | 1B         | C         |
| UCM3792A | 1B         | F         |
| UCM3792B | 1B         | 10        |
| UCM3792C | 1B         | 14        |
| UCM3793A | 1B         | 11        |
| UCM3793B | 1B         | 12        |
| UCM4WD   | 74         |           |
| UCM4380E | 1B         | 19        |
| UCM5WD   | 78         |           |
| UCM5006E | 1B         | 1C        |
| UCM6WD   | 7C         |           |
| UCM6260E | 1B         | 1B        |
| UCM6280E | 1B         | 1A        |





## UPL Heading Information

**Common Name:** UCB Pointer List  
**Macro ID:** IEFZB461  
**DSECT Name:** UPL  
**Owning Component:** Allocation (SC1B4)  
**Eye-Catcher ID:** UPL  
 Offset: 0  
 Length: 4  
**Storage Attributes:** Subpool: 241  
 Key: 1  
 Residency: Above the 16M  
**Size:** 16 bytes + 4 bytes for each UCB generated in the system  
**Created by:** IEFAB411 (UPL Build routine)  
**Pointed to by:** EDTUPLP field of the EDT data area (IEFZB421)  
**Serialization:** Same as EDT  
**Function:** This table contains the Unit Control Block (UCB) address for each device in the system. The entries are in the same order as the device numbers in the device number section of the Eligible Device Table (EDT).

### UPL Map

| Offsets |      |            |     |             |                                                                                                          |
|---------|------|------------|-----|-------------|----------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)  | Description                                                                                              |
| 0       | (0)  | STRUCTURE  | *   | UPL         | UCB POINTER LIST                                                                                         |
| 0       | (0)  | CHARACTER  | 16  | UPLHDR      | HEADER                                                                                                   |
| 0       | (0)  | CHARACTER  | 4   | UPLID       | 'UPL '                                                                                                   |
| 4       | (4)  | SIGNED     | 4   | UPLNO       | NUMBER OF ENTRIES                                                                                        |
| 8       | (8)  | SIGNED     | 4   | UPLNUCBS    | Number of tape and DA UCBs in the system. This is used by device allocation and initialized by IEFAB410. |
| 12      | (C)  | CHARACTER  | 4   | *           | RESERVED                                                                                                 |
| 16      | (10) | ADDRESS    | 4   | UPLUCBA (*) | UCB ADDRESSES                                                                                            |

## UPL Map

## URLB Heading Information

**Common Name:** URLB - Unconditional Reserve block  
**Macro ID:** IOSDURLB  
**DSECT Name:** URLB  
**Owning Component:** IOS (SC1C3)  
**Eye-Catcher ID:** URLB  
 Offset: 0  
 Length: 4  
**Storage Attributes:** Subpool: 245  
 Key: 0  
**Size:** 1557 bytes  
**Created by:** IOSVURVL  
**Pointed to by:** N/A  
**Serialization:** N/A  
**Function:** This macro describes the layout of the unconditional reserve processing work area obtained from Subpool 245 in module IOSVURVL.

### URLB Map

| Offsets                                          |     |            |      |            |                                                         |
|--------------------------------------------------|-----|------------|------|------------|---------------------------------------------------------|
| Dec                                              | Hex | Type/Value | Len  | Name (Dim) | Description                                             |
| 0                                                | (0) | STRUCTURE  | 1501 | URLB       | URLB block                                              |
| 0                                                | (0) | CHARACTER  | 24   | *          |                                                         |
| 0                                                | (0) | CHARACTER  | 4    | URLBID     | U/R ID - 'URLB'                                         |
| 4                                                | (4) | CHARACTER  | 4    | URLBCHNF   | Chain field                                             |
| 8                                                | (8) | CHARACTER  | 2    | URLBDEVN   | Device number undergoing U/R (UCBCHAN value)            |
| Comment                                          |     |            |      |            |                                                         |
| U/R - Processing Flags                           |     |            |      |            |                                                         |
| End of Comment                                   |     |            |      |            |                                                         |
| 10                                               | (A) | CHARACTER  | 2    | URLBFLGS   | U/R processing flags                                    |
| 10                                               | (A) | BITSTRING  | 1    | URLBFLG1   | Flag byte 1                                             |
|                                                  |     | 1... ..    |      | URLBRENT   | 1 - Not first entry in IOSVURDT for this U/R processing |
|                                                  |     | .1... ..   |      | URLBDET    | Detection processing complete in IOSVURDT               |
|                                                  |     | ..11 11..  |      | *          | Reserved                                                |
|                                                  |     | .... ..1.  |      | URLBRACW   | Reset allegiance CCW supported                          |
|                                                  |     | .... ...1  |      | URLBURCW   | UR CCW supported                                        |
| 11                                               | (B) | BITSTRING  | 1    | URLBFLG2   | Flag byte 2                                             |
|                                                  |     | 1... ..    |      | URLBURDT   | IOSVURDT entered                                        |
|                                                  |     | .1... ..   |      | URLBMSLG   | IOSVMSLG entered                                        |
|                                                  |     | ..1. ....  |      | URLBURS1   |                                                         |
|                                                  |     | ...1 1111  |      | *          | Reserved                                                |
| Comment                                          |     |            |      |            |                                                         |
| U/R - Subpool number and length of U/R work area |     |            |      |            |                                                         |
| End of Comment                                   |     |            |      |            |                                                         |
| 12                                               | (C) | UNSIGNED   | 2    | URLBSUBP   | Subpool number                                          |
| 14                                               | (E) | UNSIGNED   | 2    | URLBLNTH   | U/R work area length                                    |
| Comment                                          |     |            |      |            |                                                         |
| U/R - Miscellaneous processing flags and counts  |     |            |      |            |                                                         |
| End of Comment                                   |     |            |      |            |                                                         |

## URLB Map

| Offsets                                                                        |       |            |     |            |                                                                                                                                               |
|--------------------------------------------------------------------------------|-------|------------|-----|------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Dec                                                                            | Hex   | Type/Value | Len | Name (Dim) | Description                                                                                                                                   |
| 16                                                                             | (10)  | CHARACTER  | 4   | *          |                                                                                                                                               |
| 16                                                                             | (10)  | BITSTRING  | 1   | URLBDTCT   | Count of IECVPST entries                                                                                                                      |
| 17                                                                             | (11)  | BITSTRING  | 1   | URLBFLG3   | Flag byte 3 - reserved                                                                                                                        |
| 18                                                                             | (12)  | BITSTRING  | 1   | URLBFLG4   | Flag byte 4 - reserved                                                                                                                        |
| 19                                                                             | (13)  | BITSTRING  | 1   | URLBFLG5   | Flag byte 5 - reserved                                                                                                                        |
| 20                                                                             | (14)  | CHARACTER  | 4   | *          | Reserved                                                                                                                                      |
| Comment                                                                        |       |            |     |            |                                                                                                                                               |
| U/R CCWs --- Must be on double word boundary<br>Sense , SNID and RSTA Commands |       |            |     |            |                                                                                                                                               |
| End of Comment                                                                 |       |            |     |            |                                                                                                                                               |
| 24                                                                             | (18)  | CHARACTER  | 8   | *          |                                                                                                                                               |
| 24                                                                             | (18)  | CHARACTER  | 8   | URLBSCCW   |                                                                                                                                               |
| Comment                                                                        |       |            |     |            |                                                                                                                                               |
| U/R - URVL and URSV parameter areas                                            |       |            |     |            |                                                                                                                                               |
| End of Comment                                                                 |       |            |     |            |                                                                                                                                               |
| 32                                                                             | (20)  | CHARACTER  | 40  | *          |                                                                                                                                               |
| 32                                                                             | (20)  | CHARACTER  | 8   | URLBURVL   | Callers URVL parameter area save area                                                                                                         |
| 40                                                                             | (28)  | CHARACTER  | 32  | URLBURSV   | URSV Parameter area for recovery action communication                                                                                         |
| Comment                                                                        |       |            |     |            |                                                                                                                                               |
| U/R - SRB, IOSB and channel program.                                           |       |            |     |            |                                                                                                                                               |
| End of Comment                                                                 |       |            |     |            |                                                                                                                                               |
| 72                                                                             | (48)  | CHARACTER  | 152 | *          |                                                                                                                                               |
| 72                                                                             | (48)  | CHARACTER  | 44  | URLBSRB    | SRB                                                                                                                                           |
| 116                                                                            | (74)  | CHARACTER  | 108 | URLBIOSB   | IOSB                                                                                                                                          |
| Comment                                                                        |       |            |     |            |                                                                                                                                               |
| U/R - Command code read area                                                   |       |            |     |            |                                                                                                                                               |
| End of Comment                                                                 |       |            |     |            |                                                                                                                                               |
| 224                                                                            | (E0)  | CHARACTER  | 32  | *          |                                                                                                                                               |
| 224                                                                            | (E0)  | CHARACTER  | 32  | URLBRSTD   |                                                                                                                                               |
| Comment                                                                        |       |            |     |            |                                                                                                                                               |
| U/R - FRR parameter area save areas                                            |       |            |     |            |                                                                                                                                               |
| End of Comment                                                                 |       |            |     |            |                                                                                                                                               |
| 256                                                                            | (100) | CHARACTER  | 24  | *          |                                                                                                                                               |
| 256                                                                            | (100) | CHARACTER  | 24  | URLBFRRU   | Used by IOSVURDT to save the FRR parameter list when calling IOS services. The IOS services will do an FRR replace when they receive control. |
| Comment                                                                        |       |            |     |            |                                                                                                                                               |
| U/R - IOS Service Call parameter areas                                         |       |            |     |            |                                                                                                                                               |
| End of Comment                                                                 |       |            |     |            |                                                                                                                                               |
| 280                                                                            | (118) | CHARACTER  | 156 | *          |                                                                                                                                               |
| 280                                                                            | (118) | CHARACTER  | 32  | URLBRESV   | RESV parameter area for IOSRRRSV                                                                                                              |
| 312                                                                            | (138) | CHARACTER  | 52  | URLBRESS   | RESS parameter area for IOSRRRSV                                                                                                              |
| 364                                                                            | (16C) | CHARACTER  | 60  | URLBDBOX   | DBOX parameter area for IOSRDBOX                                                                                                              |
| 424                                                                            | (1A8) | CHARACTER  | 12  | URLBSNID   | SNID data area                                                                                                                                |

Offsets

| Dec                                                 | Hex   | Type/Value | Len | Name (Dim) | Description                            |
|-----------------------------------------------------|-------|------------|-----|------------|----------------------------------------|
| Comment                                             |       |            |     |            |                                        |
| U/R - Register 13 and 14 save areas                 |       |            |     |            |                                        |
| End of Comment                                      |       |            |     |            |                                        |
| 436                                                 | (1B4) | CHARACTER  | 24  | *          |                                        |
| 436                                                 | (1B4) | ADDRESS    | 4   | URLBS13A   | Register 13 save area                  |
| 440                                                 | (1B8) | ADDRESS    | 4   | URLBS13B   | Register 13 save area                  |
| 444                                                 | (1BC) | ADDRESS    | 4   | URLBS14A   | Register 14 save area                  |
| 448                                                 | (1C0) | ADDRESS    | 4   | URLBS14B   | Register 14 save area                  |
| 452                                                 | (1C4) | ADDRESS    | 4   | URLBS14C   | Register 14 save area                  |
| 456                                                 | (1C8) | ADDRESS    | 4   | URLBS14D   | Register 14 save area                  |
| Comment                                             |       |            |     |            |                                        |
| U/R - 18 word save areas                            |       |            |     |            |                                        |
| End of Comment                                      |       |            |     |            |                                        |
| 460                                                 | (1CC) | CHARACTER  | 288 | *          |                                        |
| 460                                                 | (1CC) | CHARACTER  | 72  | URLBSA1    | 18 word save area #1                   |
| 532                                                 | (214) | CHARACTER  | 72  | URLBSA2    | 18 word save area #2                   |
| 604                                                 | (25C) | CHARACTER  | 72  | URLBSA3    | 18 word save area #3                   |
| 676                                                 | (2A4) | CHARACTER  | 72  | URLBSA4    | 18 word save area #4                   |
| Comment                                             |       |            |     |            |                                        |
| U/R - IOSVURDT module work area                     |       |            |     |            |                                        |
| End of Comment                                      |       |            |     |            |                                        |
| 748                                                 | (2EC) | CHARACTER  | 128 | URLBWORK   | Work area                              |
| Comment                                             |       |            |     |            |                                        |
| U/R - IOSVMSLG module work area and message buffer. |       |            |     |            |                                        |
| End of Comment                                      |       |            |     |            |                                        |
| 876                                                 | (36C) | CHARACTER  | 420 | URLBMSGW   | Work area                              |
| Comment                                             |       |            |     |            |                                        |
| U/R - IOS Component Trace Work Area                 |       |            |     |            |                                        |
| End of Comment                                      |       |            |     |            |                                        |
| 1296                                                | (510) | CHARACTER  | 128 | URLBCTWK   | Work area                              |
| Comment                                             |       |            |     |            |                                        |
| U/R - PIN information area.                         |       |            |     |            |                                        |
| End of Comment                                      |       |            |     |            |                                        |
| 1424                                                | (590) | ADDRESS    | 4   | URLBPINR   | Return value for pin/unpin subroutines |
| 1428                                                | (594) | CHARACTER  | 72  | URLBPINI   | UCB pin information area               |
| 1428                                                | (594) | CHARACTER  | 58  | URLBPTXT   | UCB pin text                           |
| 1486                                                | (5CE) | CHARACTER  | 8   | URLBPTOK   | UCB pin token                          |
| 1494                                                | (5D6) | CHARACTER  | 5   | URLBPCMP   | Component ID                           |
| 1499                                                | (5DB) | BITSTRING  | 1   | URLBPFLG   | PIN flags                              |
| 1500                                                | (5DC) | 1... ....  |     | URLBPIND   | UCB is pinned                          |

## URLB Constants • URLB Cross Reference

### URLB Constants

| Len                     | Type    | Value | Name     | Description        |
|-------------------------|---------|-------|----------|--------------------|
| Comment                 |         |       |          |                    |
| U/R - PIN constan area. |         |       |          |                    |
| End of Comment          |         |       |          |                    |
| 4                       | DECIMAL | 58    | URLBPTLN | Length of pin text |

### URLB Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| URLB     | 0          |           |
| URLBCHNF | 4          |           |
| URLBCTWK | 510        |           |
| URLBDBOX | 16C        |           |
| URLBDET  | A          | 40        |
| URLBDEVN | 8          |           |
| URLBDTCT | 10         |           |
| URLBFLGS | A          |           |
| URLBFLG1 | A          |           |
| URLBFLG2 | B          |           |
| URLBFLG3 | 11         |           |
| URLBFLG4 | 12         |           |
| URLBFLG5 | 13         |           |
| URLBFRRU | 100        |           |
| URLBID   | 0          |           |
| URLBIOSB | 74         |           |
| URLBLNTH | E          |           |
| URLBMSGW | 36C        |           |
| URLBMSLG | B          | 40        |
| URLBPCMP | 5D6        |           |
| URLBPFLG | 5DB        |           |
| URLBPIND | 5DC        | 80        |
| URLBPINI | 594        |           |
| URLBPINR | 590        |           |
| URLBPTOK | 5CE        |           |
| URLBPTXT | 594        |           |
| URLBRACW | A          | 02        |
| URLBRENT | A          | 80        |
| URLBRESS | 138        |           |
| URLBRESV | 118        |           |
| URLBRSTD | E0         |           |
| URLBSA1  | 1CC        |           |
| URLBSA2  | 214        |           |
| URLBSA3  | 25C        |           |
| URLBSA4  | 2A4        |           |
| URLBSCCW | 18         |           |
| URLBSNID | 1A8        |           |
| URLBSRB  | 48         |           |
| URLBSUBP | C          |           |
| URLBS13A | 1B4        |           |
| URLBS13B | 1B8        |           |
| URLBS14A | 1BC        |           |
| URLBS14B | 1C0        |           |
| URLBS14C | 1C4        |           |
| URLBS14D | 1C8        |           |
| URLBURCW | A          | 01        |
| URLBURDT | B          | 80        |
| URLBURSV | 28         |           |
| URLBURS1 | B          | 20        |
| URLBURVL | 20         |           |
| URLBWORK | 2EC        |           |

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**UXPARMA Programming Interface Information**

Programming Interface Information

**UXPARMA**

End of Programming Interface Information

## UXPARMA Heading Information

**Common Name:** Volume ENQ User Exit Communications Area  
**Macro ID:** IEFZB478  
**DSECT Name:** UXPARMA, VOLTABLE  
**Owning Component:** Allocation (SC1B4)  
**Eye-Catcher ID:** UXPARMA  
 Offset: 0  
 Length: 7  
**Storage Attributes:** Virtual Storage: Yes  
 Subpool: 230  
 Key: 1  
**Size:** 52 bytes  
**Created by:** IEFAB421  
**Pointed to by:** None  
**Serialization:** None  
**Function:** Provides data shared by module IEFAB421 and the Volume ENQ user exit routine.

### UXPARMA Map

| Offsets |      |            |     |            |                                               |
|---------|------|------------|-----|------------|-----------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                   |
| 0       | (0)  | STRUCTURE  | 0   | UXPARMA    | User exit parameter list                      |
| 0       | (0)  | CHARACTER  | 7   | PARMSAID   | Identifier 'UXPARMA' acronym                  |
| 7       | (7)  | BITSTRING  | 1   | PARMSAVE   | Version number                                |
| 8       | (8)  | CHARACTER  | 8   | JOBNAME    | Job name                                      |
| 16      | (10) | CHARACTER  | 8   | STEPNAME   | Step name                                     |
| 24      | (18) | ADDRESS    | 4   | UXVOLPTR   | Pointer to the VOLSER table for the user exit |
| 28      | (1C) | BITSTRING  | 1   | ACTION     | User exit action flag                         |
| 29      | (1D) | CHARACTER  | 23  |            | Reserved for IBM use                          |

| Offsets |     |            |     |              |                                      |
|---------|-----|------------|-----|--------------|--------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim)   | Description                          |
| 0       | (0) | STRUCTURE  | 0   | VOLTABLE     | VOLSER table, pointed to by UXVOLPTR |
| 0       | (0) | CHARACTER  | 2   | VOLHEADR (0) | Table header                         |
| 0       | (0) | SIGNED     | 2   | VOLENTRY     | Number of entries in the table       |
| 2       | (2) | CHARACTER  | 6   | VOLSERNO     | Array of VOLSER numbers              |

Comment

Possible ACTION values:

End of Comment

|          |          |        |                     |
|----------|----------|--------|---------------------|
| 1... ..  | CANCELJB | "X'80" | Cancel the job      |
| .1.. ..  | ISSUWTOR | "X'40" | Issue a WTOR        |
| .... 1.. | WAITVOLU | "X'08" | Wait for volume(s)  |
| .... ..  | DEFAULTS | "X'00" | Use PARMLIB default |

Comment

Constants Declaration

End of Comment

|   |     |      |   |          |                    |
|---|-----|------|---|----------|--------------------|
| 2 | (2) | X'1' | 0 | PAMSAVEC | "1" Version number |
|---|-----|------|---|----------|--------------------|



## UXPARMA Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| ACTION   | 1C            |              |
| CANCELJB | 2             | 80           |
| DEFAULTS | 2             | 0            |
| ISSUWTOR | 2             | 40           |
| JOBNAME  | 8             |              |
| PAMSAVEC | 2             | 1            |
| PARMSAID | 0             |              |
| PARMSAVE | 7             |              |
| STEPNAME | 10            |              |
| UXPARMA  | 0             |              |
| UXVOLPTR | 18            |              |
| VOLENTRY | 0             |              |
| VOLHEADR | 0             |              |
| VOLSERNO | 2             |              |
| VOLTABLE | 0             |              |
| WAITVOLU | 2             | 8            |



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## UXPARMB Programming Interface information

Programming Interface information

UXPARMB

End of Programming Interface information

## UXPARMB Heading Information

**Common Name:** Volume Mount User Exit Communication Area  
**Macro ID:** IEFZB479  
**DSECT Name:** UXPARMB  
**Owning Component:** Allocation (SC1B4)  
**Eye-Catcher ID:** UXPARMB  
 Offset: 0  
 Length: 7  
**Storage Attributes:** Subpool: 230  
 Key: Key 1  
 Residency: Any  
**Size:** 108 Bytes  
**Created by:** IEFAB493  
**Pointed to by:** Upon entry to the Volume Mount User Exit  
 General Purpose Register 1 points to a  
 Parameter List which points at UXPARMB.  
**Serialization:** None  
**Function:** Provides data shared by module IEFAB493 and the Volume Mount  
 user exit routine.

## UXPARMB Map

| Offsets |      |            |     |            |                                                         |
|---------|------|------------|-----|------------|---------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                             |
| 0       | (0)  | STRUCTURE  | 0   | UXPARMB    | User exit parameter list                                |
| 0       | (0)  | CHARACTER  | 7   | PARMSBID   | Identifier 'UXPARMB' acronym                            |
| 7       | (7)  | BITSTRING  | 1   | PARMSBVE   | Version number                                          |
| 8       | (8)  | CHARACTER  | 8   | JOBNAME    | Job name                                                |
| 16      | (10) | CHARACTER  | 8   | STEPNAME   | Step name                                               |
| 24      | (18) | CHARACTER  | 8   | DDNAME     | DD name                                                 |
| 32      | (20) | CHARACTER  | 44  | DSNAME     | Data set name                                           |
| 76      | (4C) | CHARACTER  | 6   | VOLSER     | VOLSER number                                           |
| 82      | (52) | CHARACTER  | 4   | DEVNUM     | Device number                                           |
| 86      | (56) | BITSTRING  | 1   | FLAGS      | Tape label flag Only valid if the VOLSER field is blank |
| 87      | (57) | BITSTRING  | 1   | ACTION     | User exit action flag                                   |
| 88      | (58) | BITSTRING  | 2   | CONCATNO   | DD concatenation number                                 |
| 90      | (5A) | CHARACTER  | 18  |            | Reserved for IBM use                                    |

Comment

Possible ACTION values:

End of Comment

|          |          |        |                     |
|----------|----------|--------|---------------------|
| 1... ..  | CANCELJB | "X'80" | Cancel the job      |
| .1... .. | ISSUWTOR | "X'40" | Issue a WTOR        |
| .... ..  | DEFAULTS | "X'00" | Use PARMLIB default |

Comment

Possible FLAGS values:

End of Comment

|           |          |        |                    |
|-----------|----------|--------|--------------------|
| 1... ..   | LABELSL  | "X'80" | Standard label     |
| .1... ..  | LABELAL  | "X'40" | ASCII Label        |
| ..1. .... | LABELNL  | "X'20" | No label           |
| ...1 .... | LABELNSL | "X'10" | Non-standard label |

| Offsets               |      |            |     |            |                    |
|-----------------------|------|------------|-----|------------|--------------------|
| Dec                   | Hex  | Type/Value | Len | Name (Dim) | Description        |
| Comment               |      |            |     |            |                    |
| Constants Declaration |      |            |     |            |                    |
| End of Comment        |      |            |     |            |                    |
| 90                    | (5A) | X'3'       | 0   | PAMSBVEC   | "3" Version number |

**UXPARMB Cross Reference**

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| ACTION   | 57         |           |
| CANCELJB | 5A         | 80        |
| CONCATNO | 58         |           |
| DDNAME   | 18         |           |
| DEFAULTS | 5A         | 0         |
| DEVNUM   | 52         |           |
| DSNAME   | 20         |           |
| FLAGS    | 56         |           |
| ISSUWTOR | 5A         | 40        |
| JOBNAME  | 8          |           |
| LABELAL  | 5A         | 40        |
| LABELNL  | 5A         | 20        |
| LABELNSL | 5A         | 10        |
| LABELSL  | 5A         | 80        |
| PAMSBVEC | 5A         | 3         |
| PARMSBID | 0          |           |
| PARMSBVE | 7          |           |
| STEPNAME | 10         |           |
| UXPARMB  | 0          |           |
| VOLSER   | 4C         |           |



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## UXPARMC Programming Interface information

Programming Interface information

UXPARMC

End of Programming Interface information

## UXPARMC Heading Information

**Common Name:** Specific Wait User Exit Communication Area  
**Macro ID:** IEFZB480  
**DSECT Name:** UXPARMC  
**Owning Component:** Allocation (SC1B4)  
**Eye-Catcher ID:** UXPARMC  
 Offset: 0  
 Length: 7  
**Storage Attributes:** Subpool: 230  
 Key: Key 1  
 Residency: Any  
**Size:** 108 Bytes  
**Created by:** IEFAB487  
**Pointed to by:** Upon entry to the Specific Wait User Exit  
 General Purpose Register 1 points to a  
 Parameter List that points to UXPARMC  
**Serialization:** None  
**Function:** Provides data shared by module IEFAB487 and the Specific Wait  
 user exit routine.

## UXPARMC Map

| Offsets |      |            |     |            |                              |
|---------|------|------------|-----|------------|------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                  |
| 0       | (0)  | STRUCTURE  | 0   | UXPARMC    | User exit parameter list     |
| 0       | (0)  | CHARACTER  | 7   | PARMSCID   | Identifier 'UXPARMC' acronym |
| 7       | (7)  | BITSTRING  | 1   | PARMSCVE   | Version number               |
| 8       | (8)  | CHARACTER  | 8   | JOBNAME    | Job name                     |
| 16      | (10) | CHARACTER  | 8   | STEPNAME   | Step name                    |
| 24      | (18) | CHARACTER  | 8   | DDNAME     | DD name                      |
| 32      | (20) | CHARACTER  | 44  | DSNAME     | Data set name                |
| 76      | (4C) | CHARACTER  | 6   | VOLSER     | VOLSER number                |
| 82      | (52) | CHARACTER  | 4   | DEVNUM     | Device number                |
| 86      | (56) | BITSTRING  | 1   | FLAGS      | Input information flag       |
| 87      | (57) | BITSTRING  | 1   | ACTION     | User exit action flag        |
| 88      | (58) | BITSTRING  | 1   | WAITNOHC   | Current 'WAIT NOHOLD' count  |
| 89      | (59) | CHARACTER  | 1   |            | Reserved for IBM use         |
| 90      | (5A) | BITSTRING  | 2   | CONCATNO   | DD concatenation number      |
| 92      | (5C) | CHARACTER  | 16  |            | Reserved for IBM use         |

Comment

Possible ACTION values:

End of Comment

|           |          |                                   |
|-----------|----------|-----------------------------------|
| 1... ..   | CANCELJB | "X'80" Cancel the job             |
| .1.. .... | ISSUWTOR | "X'40" Issue a WTOR               |
| ..1. .... | WAITNHLD | "X'20" Wait w/o holding resources |
| ...1 .... | WAITHOLD | "X'10" Wait holding resources     |
| .... .... | DEFAULTS | "X'00" Use PARMLIB default        |

Comment

Possible FLAGS values:

End of Comment

|           |         |                                                            |
|-----------|---------|------------------------------------------------------------|
| 11.. .... | DEVNVOL | "X'C0" Both device and VOLSER are passed to the user exit. |
| 1... .... | DEVONLY | "X'80" Only device is passed to the user exit.             |



| Offsets               |      |            |     |            |                    |
|-----------------------|------|------------|-----|------------|--------------------|
| Dec                   | Hex  | Type/Value | Len | Name (Dim) | Description        |
| Comment               |      |            |     |            |                    |
| Constants Declaration |      |            |     |            |                    |
| End of Comment        |      |            |     |            |                    |
| 92                    | (5C) | X'3'       | 0   | PAMSCVEC   | "3" Version number |

**UXPARMC Cross Reference**

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| ACTION   | 57         |           |
| CANCELJB | 5C         | 80        |
| CONCATNO | 5A         |           |
| DDNAME   | 18         |           |
| DEFAULTS | 5C         | 0         |
| DEVNUM   | 52         |           |
| DEVNVOL  | 5C         | C0        |
| DEVONLY  | 5C         | 80        |
| DSNAME   | 20         |           |
| FLAGS    | 56         |           |
| ISSUWTOR | 5C         | 40        |
| JOBNAME  | 8          |           |
| PAMSCVEC | 5C         | 3         |
| PARMSCID | 0          |           |
| PARMSCVE | 7          |           |
| STEPNAME | 10         |           |
| UXPARMC  | 0          |           |
| VOLSER   | 4C         |           |
| WAITHOLD | 5C         | 10        |
| WAITNHL  | 5C         | 20        |
| WAITNOHC | 58         |           |



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## UXPARMD Programming Interface information

Programming Interface information

UXPARMD

End of Programming Interface information

## UXPARMD Heading Information

**Common Name:** Offline Devices User Exit Communication Area  
**Macro ID:** IEFZB481  
**DSECT Name:** UXPARMD, UXVOLTBL, UXOFLTBL  
**Owning Component:** Allocation (SC1B4)  
**Eye-Catcher ID:** UXPARMD  
 Offset: 0  
 Length: 7  
**Storage Attributes:** Subpool: 230  
 Key: Key 1  
 Residency: Any  
**Size:** (116 Bytes - UXPARMD) + (2 + 6 \* number of  
 volsers - UXVOLTBL) + (4 + 12 \* number of  
 devices - UXOFLTBL)  
**Created by:** IEFAB48A  
**Pointed to by:** Upon entry to the Allocated/Offline Device  
 Installation Exit General Purpose Register 1  
 points to a parameter list that points to  
 UXPARMD  
**Serialization:** None  
**Function:** Provides data shared by Allocation and the  
 Allocated/Offline Installation Exit Routine.

## UXPARMD Map

| Offsets |      |            |     |            |                                                       |
|---------|------|------------|-----|------------|-------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                           |
| 0       | (0)  | STRUCTURE  | 0   | UXPARMD    | User exit parameter list                              |
| 0       | (0)  | CHARACTER  | 7   | PARMSDID   | Identifier 'UXPARMD' acronym                          |
| 7       | (7)  | BITSTRING  | 1   | PARMSDVE   | Version number                                        |
| 8       | (8)  | CHARACTER  | 8   | JOBNAME    | Job name                                              |
| 16      | (10) | CHARACTER  | 8   | STEPNAME   | Step name                                             |
| 24      | (18) | CHARACTER  | 8   | DDNAME     | DD name                                               |
| 32      | (20) | CHARACTER  | 44  | DSNAME     | Data set name                                         |
| 76      | (4C) | ADDRESS    | 4   | UXVOLPTR   | Pointer to the VOLSER table for the user exit         |
| 80      | (50) | SIGNED     | 4   | SCRATCH#   | Total number of non-specific scratch volumes needed   |
| 84      | (54) | SIGNED     | 4   | PRIVATE#   | Total number of non-specific private volumes needed   |
| 88      | (58) | ADDRESS    | 4   | UXOFLPTR   | Pointer to the offline device table for the user exit |
| 92      | (5C) | BITSTRING  | 1   | FLAGS      | Allocation option flag                                |
| 93      | (5D) | BITSTRING  | 1   | ACTION     | User exit action flag                                 |
| 94      | (5E) | BITSTRING  | 1   | WAITNOHC   | Current 'WAIT NOHOLD' count                           |
| 95      | (5F) | BITSTRING  | 1   | UXLBSTAT   | Library status                                        |

Comment

Removed UXLXCLUD since there is only one library to work with

End of Comment

|     |      |           |   |              |                                   |
|-----|------|-----------|---|--------------|-----------------------------------|
|     |      | .... 1... |   | UXLONLIN     | "X'08" Library is online          |
|     |      | .... .1.. |   | UXLOFFLN     | "X'04" Library is offline         |
|     |      | .... ..1. |   | UXLPOFFL     | "X'02" Library is pending offline |
| 96  | (60) | CHARACTER | 8 | UXLBNAME     | Library name                      |
| 104 | (68) | BITSTRING | 2 | CONCATNO     | DD concatenation number           |
| 106 | (6A) | BITSTRING | 4 | UXDVINFO (0) |                                   |
| 106 | (6A) | BITSTRING | 2 |              | Reserved for IBM use              |
| 108 | (6C) | BITSTRING | 1 | UXDEVCL      | Device class                      |
|     |      | 1... .... |   | UXTAPE       | "X'80" Tape device                |
|     |      | .1.. .... |   | UXCOMM       | "X'40" Communications device      |
|     |      | ..1. .... |   | UXDACC       | "X'20" Direct access device       |

| Offsets |      |            |     |            |                                |
|---------|------|------------|-----|------------|--------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                    |
|         |      | ...1 ....  |     | UXDISP     | "X'10" Graphics display device |
|         |      | .... 1...  |     | UXUREC     | "X'08" Unit record device      |
|         |      | .... .1..  |     | UXCHAR     | "X'04" Character reader device |
| 109     | (6D) | BITSTRING  | 1   |            | Reserved for IBM use           |
| 110     | (6E) | CHARACTER  | 6   |            | Reserved for IBM use           |

| Offsets |     |            |     |              |                                                       |
|---------|-----|------------|-----|--------------|-------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim)   | Description                                           |
| 0       | (0) | STRUCTURE  | 0   | UXVOLTBL     | VOLSER table for the user exit pointed to by UXVOLPTR |
| 0       | (0) | CHARACTER  | 2   | UXVHEADR (0) | Table header                                          |
| 0       | (0) | SIGNED     | 2   | UXVENTNO     | Number of entries in the table                        |
| 2       | (2) | CHARACTER  | 6   | UXVOLSER     | Array of VOLSER numbers                               |

| Offsets |     |            |     |              |                                                                |
|---------|-----|------------|-----|--------------|----------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim)   | Description                                                    |
| 0       | (0) | STRUCTURE  | 0   | UXOFLTBL     | Offline device table for the user exit, pointed to by UXOFLPTR |
| 0       | (0) | CHARACTER  | 4   | UXOHEADR (0) | Table header                                                   |
| 0       | (0) | SIGNED     | 4   | UXOENTNO     | Number of entries in the table                                 |
| 4       | (4) | CHARACTER  | 12  | UXOENTRY (0) | Table entry                                                    |
| 4       | (4) | CHARACTER  | 4   | UXODEVNO     | Offline device number (4-byte) 2                               |
| 8       | (8) | BITSTRING  | 1   | UXSTATUS     | Offline status                                                 |
|         |     | 1... ....  |     | UXONLINE     | "X'80" Bring device online                                     |
|         |     | .1.. ....  |     | UXEXCLUD     | "X'40" Exclude the device on the WTOR                          |
|         |     | ...1 ....  |     | UXVCOFFL     | "X'10" Varied offline by the configuration manager             |
|         |     | ... 1...   |     | UXOFFLNE     | "X'08" Varied offline device                                   |
|         |     | .... .1..  |     | UXNOTACC     | "X'04" Non-accessible device                                   |
|         |     | .... ..1.  |     | UXPENDNG     | "X'02" Pending offline device                                  |
|         |     | .... ...1  |     | UXVLOFFL     | "X'01" Varied library offline device                           |
| 9       | (9) | CHARACTER  | 1   |              | Reserved                                                       |
| 10      | (A) | CHARACTER  | 6   | UXOVLSER     | Pending offline device volser (6-byte)                         |

Comment

Possible ACTION values:

End of Comment

|           |          |                                                                                                               |
|-----------|----------|---------------------------------------------------------------------------------------------------------------|
| 1... .... | CANCELJB | "X'80" Cancel the job                                                                                         |
| .1.. .... | ISSUWTOR | "X'40" Issue a WTOR                                                                                           |
| ..1. .... | WAITNHLD | "X'20" Wait w/o holding resources                                                                             |
| ...1 .... | WAITHOLD | "X'10" Wait holding resources                                                                                 |
| .... 1... | BDONLINE | "X'08" Bring offline devices online or allocate a device in pending offline status without bringing it online |
| .... .... | DEFAULTS | "X'00" Use PARMLIB default                                                                                    |

Comment

Possible FLAGS values:

End of Comment

|           |          |                                                                                                                  |
|-----------|----------|------------------------------------------------------------------------------------------------------------------|
| 1... .... | OKTOWAIT | "X'80" OK to wait                                                                                                |
| .1.. .... | OKONLINE | "X'40" OK to bring offline device online or allocate device in pending offline status without bringing it online |
| ..1. .... | REPEATCL | "X'20" Repeated user exit call for the same request                                                              |
| ...1 .... | LBREQIND | "X'10" Request is a library request                                                                              |

Comment

Constants Declaration

End of Comment

|    |     |      |   |          |                    |
|----|-----|------|---|----------|--------------------|
| 10 | (A) | X'3' | 0 | PAMSDVEC | "3" Version number |
|----|-----|------|---|----------|--------------------|

## UXPARMD Cross Reference

### UXPARMD Cross Reference

| Name      | Hex Offset | Hex Value |
|-----------|------------|-----------|
| ACTION    | 5D         |           |
| BDOONLINE | A          | 8         |
| CANCELJB  | A          | 80        |
| CONCATNO  | 68         |           |
| DDNAME    | 18         |           |
| DEFAULTS  | A          | 0         |
| DSNAME    | 20         |           |
| FLAGS     | 5C         |           |
| ISSUWTOR  | A          | 40        |
| JOBNAME   | 8          |           |
| LBREQIND  | A          | 10        |
| OKONLINE  | A          | 40        |
| OKTOWAIT  | A          | 80        |
| PAMSDVEC  | A          | 3         |
| PARMSDID  | 0          |           |
| PARMSDVE  | 7          |           |
| PRIVATE#  | 54         |           |
| REPEATCL  | A          | 20        |
| SCRATCH#  | 50         |           |
| STEPNAME  | 10         |           |
| UXCHAR    | 6C         | 4         |
| UXCOMM    | 6C         | 40        |
| UXDACC    | 6C         | 20        |
| UXDEVCL   | 6C         |           |
| UXDISP    | 6C         | 10        |
| UXDVINFO  | 6A         |           |
| UXEXCLUD  | 8          | 40        |
| UXLBNAME  | 60         |           |
| UXLBSTAT  | 5F         |           |
| UXLOFFLN  | 5F         | 4         |
| UXLONLIN  | 5F         | 8         |
| UXLPOFFL  | 5F         | 2         |
| UXNOTACC  | 8          | 4         |
| UXODEVNO  | 4          |           |
| UXOENTNO  | 0          |           |
| UXOENTRY  | 4          |           |
| UXOFFLNE  | 8          | 8         |
| UXOFLPTR  | 58         |           |
| UXOFLTBL  | 0          |           |
| UXOHEADR  | 0          |           |
| UXONLINE  | 8          | 80        |
| UXOVLSER  | A          |           |
| UXPARMD   | 0          |           |
| UXPENDNG  | 8          | 2         |
| UXSTATUS  | 8          |           |
| UXTAPE    | 6C         | 80        |
| UXUREC    | 6C         | 8         |
| UXVCOFFL  | 8          | 10        |
| UXVENTNO  | 0          |           |
| UXVHEADR  | 0          |           |
| UXVLOFFL  | 8          | 1         |
| UXVOLPTR  | 4C         |           |
| UXVOLSER  | 2          |           |
| UXVOLTBL  | 0          |           |
| WAITHOLD  | A          | 10        |
| WAITNHLD  | A          | 20        |
| WAITNOHC  | 5E         |           |

## VAT Heading Information

**Common Name:** Virtual Address Table  
**Macro ID:** IEFZB611  
**DSECT Name:** VATENTRY  
**Owning Component:** Scheduler Restart (SC1B3)  
**Storage Attributes:** Subpool: 0  
 Key: 1  
**Size:** 816 bytes  
**Created by:** IEFXB602  
**Pointed to by:** JSCBVATA in active JSCB  
**Serialization:** None  
**Function:** This control block contains address and ID information on SWA control blocks built during interpretation phase. This data is used to merge information from the job journal during an automatic restart or system restart.

### VAT Map

| Offsets |       |            |     |               |                                                           |
|---------|-------|------------|-----|---------------|-----------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim)    | Description                                               |
| 0       | (0)   | STRUCTURE  | 816 | VAT           | VIRTUAL ADDRESS TABLE                                     |
| 0       | (0)   | ADDRESS    | 4   | VATX          | CHAIN PTR. TO VAT EXTENSION                               |
| 4       | (4)   | ADDRESS    | 4   | VATBPTR       | PTR. TO PREVIOUS EXTENSION                                |
| 8       | (8)   | CHARACTER  | 4   | VATSER        | SERIALIZATION WORD                                        |
| 8       | (8)   | ADDRESS    | 1   | VATNO         | NO. OF LAST ENTRY USED                                    |
| 9       | (9)   | BITSTRING  | 1   | VATFLG1       | FLAGS                                                     |
|         |       | 1... ....  |     | VATXA         | SWA BLOCKS FOR THIS JOB MAY RESIDE ABOVE THE LINE (IF ON) |
|         |       | .1.. ....  |     | VATSUFX       | SUFFIX PRESENT FOR THIS VAT EXTENT                        |
|         |       | ..1. ....  |     | VATCELL       | VAT BLOCK OBTAINED FROM CELL POOL                         |
|         |       | ...1 1111  |     | *             | RESERVED                                                  |
| 10      | (A)   | CHARACTER  | 2   | *             | RESERVED                                                  |
| 12      | (C)   | CHARACTER  | 14  | VATENTRY (56) | VAT ENTRY                                                 |
| 12      | (C)   | SIGNED     | 4   | VATRBN        | RELATIVE BLOCK NUMBER                                     |
| 16      | (10)  | ADDRESS    | 4   | VATOVA        | OLD VIRTUAL ADDR FIELD                                    |
| 16      | (10)  | ADDRESS    | 3   | VATROVA       | OLD VIRTUAL ADDRESS                                       |
| 19      | (13)  | CHARACTER  | 1   | *             | UNUSED                                                    |
| 20      | (14)  | ADDRESS    | 4   | VATNVA        | NEW VIRTUAL ADDR FIELD                                    |
| 20      | (14)  | ADDRESS    | 3   | VATRNVA       | NEW VIRTUAL ADDRESS                                       |
| 23      | (17)  | CHARACTER  | 1   | *             | UNUSED                                                    |
| 24      | (18)  | CHARACTER  | 1   | VATBLKID      | CONTROL BLOCK ID                                          |
| 25      | (19)  | BITSTRING  | 1   | VATMSW        | MERGE SWITCHES                                            |
|         |       | 1... ....  |     | VATNUPDT      | DO NOT UPDATE BLOCK                                       |
|         |       | .1.. ....  |     | VATDYNAM      | ENTRY FOR DYNAMIC BLOCK                                   |
|         |       | ..1. ....  |     | VATLMODE      | ON-LOCATE MODE ENTRY                                      |
|         |       | ...1 1111  |     | *             | UNUSED                                                    |
| 796     | (31C) | CHARACTER  | 20  | VATSUFFIX     | OPTIONAL SUFFIX                                           |
| 796     | (31C) | SIGNED     | 4   | VATCPID       | VAT CELL POOL ID                                          |
| 800     | (320) | SIGNED     | 4   | VATJCLV       | JCL LEVEL INDICATOR FROM JCTXJCLV                         |
| 804     | (324) | UNSIGNED   | 1   | VATVERS       | SWA LEVEL INDICATOR FROM JCTXVERS                         |
| 805     | (325) | CHARACTER  | 3   | *             | UNUSED                                                    |
| 808     | (328) | CHARACTER  | 8   | VATJDVT       | JDVT NAME FROM JCTXJVTN                                   |
| 816     | (330) | CHARACTER  | 0   | VATEND        | END OF MAPPING                                            |

## VAT Constants • VAT Cross Reference

### VAT Constants

| Len | Type    | Value | Name     | Description                 |
|-----|---------|-------|----------|-----------------------------|
| 4   | DECIMAL | 56    | VATMAXSZ | DIMENSION OF VATENTRY ARRAY |

### VAT Cross Reference

| Name      | Hex<br>Offset | Hex<br>Value |
|-----------|---------------|--------------|
| VAT       | 0             |              |
| VATBLKID  | 18            |              |
| VATBPTR   | 4             |              |
| VATCELL   | 9             | 20           |
| VATCPID   | 31C           |              |
| VATDYNAM  | 19            | 40           |
| VATEND    | 330           |              |
| VATENTRY  | C             |              |
| VATFLG1   | 9             |              |
| VATJCLV   | 320           |              |
| VATJDVT   | 328           |              |
| VATLMODE  | 19            | 20           |
| VATMSW    | 19            |              |
| VATNO     | 8             |              |
| VATNUPDT  | 19            | 80           |
| VATNVA    | 14            |              |
| VATOVA    | 10            |              |
| VATRBN    | C             |              |
| VATRVA    | 14            |              |
| VATROVA   | 10            |              |
| VATSER    | 8             |              |
| VATSUFFIX | 31C           |              |
| VATSUFX   | 9             | 40           |
| VATVERS   | 324           |              |
| VATX      | 0             |              |
| VATXA     | 9             | 80           |



## VCB Heading Information

**Common Name:** VIO Control Block  
**Macro ID:** IHAVCB  
**DSECT Name:** VCB  
**Owning Component:** Real Storage Manager (SC1CR)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Virtual Storage: yes  
 Subpool: USER SPECIFIED.  
 Key: 0.  
 Residency: below 16 megabytes in real storage  
**Size:** 28 bytes  
**Created by:** User  
**Pointed to by:** Register 1 (input to VIO processing),  
 VCBLINK  
**Serialization:** Local lock  
**Function:** Describes a VIO function to be performed on a  
 VIO window page.

### VCB Map

| Offsets |      |            |     |            |                                                                                                                                                                                                                               |
|---------|------|------------|-----|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                                   |
| 0       | (0)  | STRUCTURE  | 28  | VCB        |                                                                                                                                                                                                                               |
| 0       | (0)  | ADDRESS    | 4   | VCBLINK    | VIRTUAL ADDR OF NEXT VCB IN A CHAINED REQUEST                                                                                                                                                                                 |
| 4       | (4)  | ADDRESS    | 4   | VCBVSA     | VIRTUAL ADDR. OF A PAGE IN THE VIO WINDOW. THE PAGE IS THE SOURCE PAGE FOR A MOVE-OUT OR THE TARGET PAGE FOR AN ASSIGN.                                                                                                       |
| 8       | (8)  | CHARACTER  | 8   | VCBLPID    | THE LPID OF THE VIO DATA SET PAGE.                                                                                                                                                                                            |
| 16      | (10) | ADDRESS    | 4   | VCBRUARG   | VIO REUSE ARGUMENT. RSM RETURNS THIS ADDRESS TO VBP ON A MOVEOUT IF VBP SUPPLIED A RECLAIM IDENTIFIER (DSPID). VBP CAN THEN PASS THE ADDRESS BACK TO RSM ON A SUBSEQUENT ASSIGN FOR THE SAME PAGE TO ATTEMPT RECLAIM (REUSE). |
| 16      | (10) | ADDRESS    | 4   | VCBPFTE    | VIRTUAL ADDRESS OF THE PFTE FOR THE REAL STORAGE FRAME LAST OCCUPIED BY THE VIO WINDOW PAGE                                                                                                                                   |
| 16      | (10) | ADDRESS    | 4   | VCBESTE    | VIRTUAL ADDRESS OF THE ESTE FOR THE EXPANDED STORAGE FRAME LAST OCCUPIED BY THE VIO WINDOW PAGE                                                                                                                               |
| 20      | (14) | UNSIGNED   | 4   | VCBDSPID   | DATA SET PAGE RECLAIM (REUSE) IDENTIFIER.                                                                                                                                                                                     |
| 24      | (18) | BITSTRING  | 1   | VCBOPFLG   | OPERATION FLAGS                                                                                                                                                                                                               |
|         |      | 1... ....  |     | VCBMVOUT   | WHEN 1, A MOVE-OUT IS REQUESTED.                                                                                                                                                                                              |
|         |      | .1... .... |     | VCBVF      | REQUESTOR IS VIRTUAL FETCH                                                                                                                                                                                                    |
|         |      | ..1. ....  |     | VCBASIGN   | WHEN 1, AN ASSIGN IS REQUESTED                                                                                                                                                                                                |
|         |      | ...1 ....  |     | VCBRSV5    | RESERVED                                                                                                                                                                                                                      |
|         |      | .... 1...  |     | VCBNDISC   | REQUESTS THAT THE VIO PAGE SHOULD NOT BE DISCONNECTED FROM ITS WINDOW LOCATION AFTER MOVEOUT OPERATION IS COMPLETE.                                                                                                           |
|         |      | .... .1..  |     | VCBNOLD    | IF 1, A PAGE LOAD WILL NOT BE DONE UPON COMPLETION OF THE ASSIGN FUNCTION. VALID ONLY IF VCBASIGN=1.                                                                                                                          |
|         |      | .... .1..  |     | VCBLOAD    | OLD NAME FOR COMPATIBILITY                                                                                                                                                                                                    |
|         |      | .... ..1.  |     | VCBRSV2    | RESERVED                                                                                                                                                                                                                      |
|         |      | .... ...1  |     | VCBRSV3    | RESERVED                                                                                                                                                                                                                      |
| 25      | (19) | BITSTRING  | 1   | VCBCPFLG   | COMPLETION FLAGS                                                                                                                                                                                                              |
|         |      | 1... ....  |     | VCBNOVAC   | IF VCBASIGN=1 AND THE PGTE FOR VCBVSA IS NOT ZERO, AN ERROR HAS OCCURRED. DISCONNECT MOVEOUT SHOULD HAVE BEEN REQUESTED FOR THE VSA BEFORE ISSUING THE ASSIGN REQUEST.                                                        |

## VCB Cross Reference

| Offsets |      |            |     |            |                                                                                                                                                                                        |
|---------|------|------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                            |
|         |      | .1.. ....  |     | VCBINVSA   | VCBVSA DOES NOT CONTAIN A VALID VSA.                                                                                                                                                   |
|         |      | ..1. ....  |     | VCBELPID   | ON A MOVEOUT REQUEST, EITHER THE LPID SUPPLIED IN THE VCB DOES NOT MATCH THE LPID IN THE XPTE, OR ASM COULD NOT SUCCESSFULLY START A PAGEOUT OR TRANSFER-PAGE OPERATION FOR THIS PAGE. |
|         |      | ...1 ....  |     | VCBNOAUX   | FOR A MOVE-OUT, NO AUX. STORAGE EXISTED OR WAS CREATED AND NO REAL STORAGE EXISTED FROM WHICH TO PAGE-OUT.                                                                             |
|         |      | .... 1...  |     | VCBEFIX    | MOVE-OUT REQUESTED FOR A FIXED OR BAD PAGE.                                                                                                                                            |
|         |      | .... .1..  |     | *          | RESERVED                                                                                                                                                                               |
|         |      | .... ..1.  |     | *          | RESERVED                                                                                                                                                                               |
|         |      | .... ...1  |     | *          | RESERVED                                                                                                                                                                               |
| 26      | (1A) | UNSIGNED   | 2   | VCBRSV4    | RESERVED                                                                                                                                                                               |
| 28      | (1C) | CHARACTER  | 0   | VCBEND     | END OF VCB                                                                                                                                                                             |

## VCB Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| VCB      | 0          |           |
| VCBASIGN | 18         | 20        |
| VCBCPFLG | 19         |           |
| VCBDSPID | 14         |           |
| VCBEFIX  | 19         | 08        |
| VCBELPID | 19         | 20        |
| VCBEND   | 1C         |           |
| VCBESTE  | 10         |           |
| VCBINVSA | 19         | 40        |
| VCBLINK  | 0          |           |
| VCBLOAD  | 18         | 04        |
| VCBLPID  | 8          |           |
| VCBMVOUT | 18         | 80        |
| VCBNDISC | 18         | 08        |
| VCBNOAUX | 19         | 10        |
| VCBNOLD  | 18         | 04        |
| VCBNOVAC | 19         | 80        |
| VCBOPFLG | 18         |           |
| VCBPFTE  | 10         |           |
| VCBRSV2  | 18         | 02        |
| VCBRSV3  | 18         | 01        |
| VCBRSV4  | 1A         |           |
| VCBRSV5  | 18         | 10        |
| VCBRUARG | 10         |           |
| VCBVF    | 18         | 40        |
| VCBVSA   | 4          |           |

## VFCB Heading Information

**Common Name:** Virtual Fetch Control Block  
**Macro ID:** IHAVFCB  
**DSECT Name:** VFCB  
**Owning Component:** Contents Supervisor (SC1CJ)  
**Eye-Catcher ID:** VFCB  
**Offset:** Offset 0, Length 4  
**Subpool and Key:** Subpool 241 and key 0  
**Size:** 32 bytes  
**Created by:** CSVVFCRE  
**Pointed to by:** CVTVFCB  
**Serialization:** Compare and Swap  
**Function:** Contains information concerning status of Virtual Fetch, the address of the Virtual Fetch hash table and the Virtual Fetch ECB.

### VFCB Map

| Offsets |      |            |     |            |                                                                                                                                                                                                                                                 |
|---------|------|------------|-----|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                                                     |
| 0       | (0)  | STRUCTURE  | 44  | VFCB       | Virtual Fetch Control Block                                                                                                                                                                                                                     |
| 0       | (0)  | CHARACTER  | 4   | VFCBID     | Control block ID ("VFCB")                                                                                                                                                                                                                       |
| 4       | (4)  | ADDRESS    | 4   | VFCBASCB   | Address of Virtual Fetch address space ASCB                                                                                                                                                                                                     |
| 8       | (8)  | CHARACTER  | 8   | VFCBRESH   | Refresh number of this Virtual Fetch in TIMER units                                                                                                                                                                                             |
| 8       | (8)  | SIGNED     | 4   | VFCBRSH1   | First half of refresh value                                                                                                                                                                                                                     |
| 12      | (C)  | SIGNED     | 4   | VFCBRSH2   | Second half of refresh value                                                                                                                                                                                                                    |
| 16      | (10) | ADDRESS    | 4   | VFCBHSHP   | Address of hash table                                                                                                                                                                                                                           |
| 20      | (14) | UNSIGNED   | 4   | VFCBHSHV   | Hash algorithm divisor                                                                                                                                                                                                                          |
| 24      | (18) | SIGNED     | 4   | VFCBECB    | Refresh ECB                                                                                                                                                                                                                                     |
| 28      | (1C) | UNSIGNED   | 1   | VFCBLVEL   | Level number of this VFCB (currently level=0)                                                                                                                                                                                                   |
| 29      | (1D) | UNSIGNED   | 1   | VFCBFLAG   | Flag byte                                                                                                                                                                                                                                       |
|         |      | 1... ....  |     | VFCBUILT   | Virtual Fetch has been built and is fully operational. (turned on after the VFCB is set up, and just before entering WAIT processing. It is initially off, and will be turned off before updating the VFCB, and whenever the ESTAE is entered). |
|         |      | .1.. ....  |     | VFCBRES2   | Reserved flag                                                                                                                                                                                                                                   |
|         |      | ..1. ....  |     | VFCBRES3   | Reserved flag                                                                                                                                                                                                                                   |
|         |      | ...1 ....  |     | VFCBRES4   | Reserved flag                                                                                                                                                                                                                                   |
|         |      | .... 1...  |     | VFCBRES5   | Reserved flag                                                                                                                                                                                                                                   |
|         |      | .... .1..  |     | VFCBRES6   | Reserved flag                                                                                                                                                                                                                                   |
|         |      | .... ..1.  |     | VFCBRES7   | Reserved flag                                                                                                                                                                                                                                   |
|         |      | .... ...1  |     | VFCBRES8   | Reserved flag                                                                                                                                                                                                                                   |
| 30      | (1E) | CHARACTER  | 2   | VFCBRES9   | Reserved half word                                                                                                                                                                                                                              |
| 32      | (20) | SIGNED     | 4   | VFCBCSWD   | Word for compare and swap. Used to serialize CSVVFTCH with the REFRESH function of CSVVFCRE.                                                                                                                                                    |
| 32      | (20) | UNSIGNED   | 1   | VFCBRSCH   | Refresh in progress flag field                                                                                                                                                                                                                  |
|         |      | 1... ....  |     | VFCBRINP   | Refresh in progress flag                                                                                                                                                                                                                        |
|         |      | .111 1111  |     | VFCBRV09   | Reserved                                                                                                                                                                                                                                        |
| 33      | (21) | BITSTRING  | 1   | VFCBRV10   | Reserved                                                                                                                                                                                                                                        |
| 34      | (22) | SIGNED     | 2   | VFCBGETS   | Number of GET requests active.                                                                                                                                                                                                                  |
| 36      | (24) | SIGNED     | 4   | VFCBGECB   | ECB to be posted by GET process when refresh is in progress and GET count has just been decremented to zero                                                                                                                                     |
| 40      | (28) | UNSIGNED   | 4   | VFCBRSEQ   | Refresh sequence number. It is incremented when refresh process begins and VFCBGETS=0. It is used to prevent an incorrect POST from GET process.                                                                                                |

## VFCB Constants • VFCB Cross Reference

### VFCB Constants

| Len | Type    | Value | Name    | Description        |
|-----|---------|-------|---------|--------------------|
| 4   | DECIMAL | 44    | VFCBLEN | Length of the VFCB |

### VFCB Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| VFCB     | 0          |           |
| VFCBASCB | 4          |           |
| VFCBCSWD | 20         |           |
| VFCBECB  | 18         |           |
| VFCBFLAG | 1D         |           |
| VFCBGECB | 24         |           |
| VFCBGETS | 22         |           |
| VFCBHSHP | 10         |           |
| VFCBHSHV | 14         |           |
| VFCBID   | 0          |           |
| VFCBLVEL | 1C         |           |
| VFCBRESH | 8          |           |
| VFCBRES2 | 1D         | 40        |
| VFCBRES3 | 1D         | 20        |
| VFCBRES4 | 1D         | 10        |
| VFCBRES5 | 1D         | 08        |
| VFCBRES6 | 1D         | 04        |
| VFCBRES7 | 1D         | 02        |
| VFCBRES8 | 1D         | 01        |
| VFCBRES9 | 1E         |           |
| VFCBRINP | 20         | 80        |
| VFCBRSCH | 20         |           |
| VFCBRSEQ | 28         |           |
| VFCBRSH1 | 8          |           |
| VFCBRSH2 | C          |           |
| VFCBRV09 | 20         | 7F        |
| VFCBRV10 | 21         |           |
| VFCBUILT | 1D         | 80        |

## VFDE Heading Information

**Common Name:** Virtual Fetch Directory Entry  
**Macro ID:** IHAVFDE  
**DSECT Name:** VFHE  
**Owning Component:** Contents Supervisor (SC1CJ)  
**Subpool and Key:** Subpool 230 and key 0 (Residnce - above 16M line)  
**Size:** 64 bytes  
**Created by:** CSVVFCRE  
**Pointed to by:** VFCBHSHP plus calculated index into Virtual Fetch hash table.  
**Serialization:** VFCBUILT flag and the LOCAL lock.  
**Function:** Contains information concerning a module residing in Virtual Fetch's VIO data set.

### VFDE Map

| Offsets |      |            |     |            |                                                                                              |
|---------|------|------------|-----|------------|----------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                  |
| 0       | (0)  | STRUCTURE  | 64  | VFHE       | Virtual Fetch Directory Entry                                                                |
| 0       | (0)  | ADDRESS    | 4   | VFHESYN    | Address of synonym                                                                           |
| 4       | (4)  | CHARACTER  | 40  | VFDE       | Directory entry information needed to obtain the module from the VIO data set                |
| 4       | (4)  | CHARACTER  | 8   | VFDENAME   | Entry point name                                                                             |
| 4       | (4)  | CHARACTER  | 4   | VFDENM1    | First half of name                                                                           |
| 8       | (8)  | CHARACTER  | 4   | VFDENM2    | Second half of name                                                                          |
| 12      | (C)  | CHARACTER  | 32  | VFDESCH    | Start of data moved to caller by CSVVFSCH                                                    |
| 12      | (C)  | CHARACTER  | 8   | VFDELPID   | Logical Page Identifier - LPID                                                               |
| 12      | (C)  | UNSIGNED   | 4   | VFDELGN    | Logical Group Number                                                                         |
| 16      | (10) | UNSIGNED   | 4   | VFDERPN    | Relative Page Number                                                                         |
| 20      | (14) | UNSIGNED   | 4   | VFDEMODL   | Reformatted Module size                                                                      |
| 24      | (18) | UNSIGNED   | 4   | VFDEEPA    | Entry Point offset                                                                           |
|         |      | 1... ....  |     | VFDEAM31   | 31 bit AMODE indicator                                                                       |
|         |      | .111 1111  |     | VFDEZR03   | Always zero                                                                                  |
| 25      | (19) | ADDRESS    | 3   | VFDEEPA1   | EP offset                                                                                    |
| 28      | (1C) | UNSIGNED   | 4   | VFDERLDP   | Relocation information offset within module                                                  |
| 32      | (20) | UNSIGNED   | 4   | VFDEFLGS   | Flags word                                                                                   |
| 32      | (20) | CHARACTER  | 1   | VFDEFLG1   | 1st flag byte                                                                                |
|         |      | 1... ....  |     | VFDERENT   | Module was link edited as reentrant                                                          |
|         |      | .1.. ....  |     | VFDEREUS   | Module was link edited as reusable                                                           |
|         |      | ..1. ....  |     | VFDEALIS   | This is an alias entry                                                                       |
|         |      | ...1 ....  |     | VFDEINFO   | INFODATA format DE                                                                           |
|         |      | .... 1...  |     | VFDEAPFL   | Module comes from an APF library                                                             |
|         |      | .... .1..  |     | VFDEF1R5   | Reserved                                                                                     |
|         |      | .... ..1.  |     | VFDEANYM   | AMODE=any indicator (control will be passed in the AMODE of the caller).                     |
|         |      | .... ...1  |     | VFDERMOD   | RMODE of this module                                                                         |
| 33      | (21) | CHARACTER  | 3   | VFDERES4   | Reserved                                                                                     |
| 36      | (24) | CHARACTER  | 8   | VFDERESH   | The refresh value for this Virtual Fetch VIO data set in TIMER units                         |
| 36      | (24) | UNSIGNED   | 4   | VFDESH1    | First half of TIMER value for refresh                                                        |
| 40      | (28) | UNSIGNED   | 4   | VFDESH2    | Second half of TIMER value for refresh                                                       |
| 44      | (2C) | CHARACTER  | 18  | VFHERES1   | Reserved                                                                                     |
| 62      | (3E) | BITSTRING  | 1   | VFHEFLG2   | Flag byte                                                                                    |
|         |      | 1... ....  |     | VFHEBDDE   | Virtual Fetch has found a discrepancy between the given length and the calc length of the DE |
|         |      | .111 1111  |     | VFHERES2   | Reserved                                                                                     |
| 63      | (3F) | UNSIGNED   | 1   | VFHELIBN   | Zero-origin library number of original library of the module                                 |

## VFDE Cross Reference

### VFDE Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| VFDE     | 4             |              |
| VFDEALIS | 20            | 20           |
| VFDEAM31 | 18            | 80           |
| VFDEANYM | 20            | 02           |
| VFDEAPFL | 20            | 08           |
| VFDEEPA  | 18            |              |
| VFDEEPA1 | 19            |              |
| VFDEFLGS | 20            |              |
| VFDEFLG1 | 20            |              |
| VFDEF1R5 | 20            | 04           |
| VFDEINFO | 20            | 10           |
| VFDELGN  | C             |              |
| VFDELPID | C             |              |
| VFDEMODL | 14            |              |
| VFDENAME | 4             |              |
| VFDENM1  | 4             |              |
| VFDENM2  | 8             |              |
| VFDERENT | 20            | 80           |
| VFDERESH | 24            |              |
| VFDERES4 | 21            |              |
| VFDEREUS | 20            | 40           |
| VFDERLDP | 1C            |              |
| VFDERMOD | 20            | 01           |
| VFDERPN  | 10            |              |
| VFDESH1  | 24            |              |
| VFDESH2  | 28            |              |
| VFDESCH  | C             |              |
| VFDEZR03 | 18            | 7F           |
| VFHE     | 0             |              |
| VFHEBDDE | 3E            | 80           |
| VFHEFLG2 | 3E            |              |
| VFHELIBN | 3F            |              |
| VFHERES1 | 2C            |              |
| VFHERES2 | 3E            | 7F           |
| VFHESYN  | 0             |              |

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# VFPM Programming Interface Information

Programming Interface Information

VFPM

End of Programming Interface Information

## VFPM Heading Information

**Common Name:** Virtual Fetch Parameter List  
**Macro ID:** IHAVFPM  
**DSECT Name:** VFPM  
**Owning Component:** Contents Supervisor (SC1CJ)  
**Subpool and Key:** User subpool and key  
**Size:** 88 bytes  
**Created by:** Caller of Virtual Fetch  
**Pointed to by:** N/A  
**Serialization:** None  
**Function:** Describes a Virtual Fetch function to be performed on a named module.

## VFPM Map

| Offsets |      |            |     |              |                                                                                                                                                                                                                                 |
|---------|------|------------|-----|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                                                                                                                                     |
| 0       | (0)  | STRUCTURE  | 0   | VFPM         | VIRTUAL FETCH PARAMETER LIST                                                                                                                                                                                                    |
| 0       | (0)  | CHARACTER  | 72  | VFPMSAVE     | REGISTER SAVE AREA TO BE PASSED TO THE CALLED PROGRAM                                                                                                                                                                           |
| 72      | (48) | SIGNED     | 4   | VFPMREG1     | CONTENTS OF REGISTER 1 TO BE PASSED TO CALLED PROGRAM                                                                                                                                                                           |
| 76      | (4C) | CHARACTER  | 8   | VFPMNAME (0) | NAME OF CALLED PROGRAM                                                                                                                                                                                                          |
| 76      | (4C) | CHARACTER  | 4   | VFPMNAML     | FIRST FOUR CHARS OF NAME                                                                                                                                                                                                        |
| 80      | (50) | CHARACTER  | 4   | VFPMNAMR     | LAST FOUR CHARS OF NAME                                                                                                                                                                                                         |
| 84      | (54) | BITSTRING  | 1   | VFPMMLVL     | LEVEL OF PARAMTER LIST                                                                                                                                                                                                          |
| 85      | (55) | BITSTRING  | 1   | VFPMFUNC     | FUNCTION TO PERFORM                                                                                                                                                                                                             |
| 85      | (55) | X'1'       | 0   | VFPMBLD      | "1" BUILD REQUEST INDICATOR                                                                                                                                                                                                     |
| 85      | (55) | X'2'       | 0   | VFPMFIND     | "2" FIND REQUEST INDICATOR                                                                                                                                                                                                      |
| 85      | (55) | X'3'       | 0   | VFPMGET      | "3" GET REQUEST INDICATOR                                                                                                                                                                                                       |
| 86      | (56) | BITSTRING  | 1   | VFPMFLAG     | FLAG BYTE                                                                                                                                                                                                                       |
|         |      | 1... ....  |     | VFPMGETM     | "X'80" FRESH MODULE STORAGE IS TO BE GETMAINED AND FREEMAINED ON EACH INVOCATION. IF OFF, MODULE STORAGE WILL BE PGRLED INSTEAD OF FREEMAINED, AND FURTHER UNNEEDED GETMAINS WILL NOT BE ISSUED.                                |
|         |      | .1.. ....  |     | VFPMRES1     | "X'40" RESERVED                                                                                                                                                                                                                 |
|         |      | ..1. ....  |     | VFPMRES2     | "X'20" RESERVED                                                                                                                                                                                                                 |
|         |      | ...1 ....  |     | VFPMRES3     | "X'10" RESERVED                                                                                                                                                                                                                 |
|         |      | .... 1..   |     | VFPMRES4     | "X'08" RESERVED                                                                                                                                                                                                                 |
|         |      | .... .1..  |     | VFPMRES5     | "X'04" RESERVED                                                                                                                                                                                                                 |
|         |      | .... ..1.  |     | VFPMRES6     | "X'02" RESERVED                                                                                                                                                                                                                 |
|         |      | .... ...1  |     | VFPMRES7     | "X'01" RESERVED                                                                                                                                                                                                                 |
| 87      | (57) | BITSTRING  | 1   | VFPMRTN      | RETURN FLAGS SET BY THE GET FUNCTION. IF ALL FLAGS ARE ZERO, THE REQUESTED MODULE WAS EXECUTED AND REGISTER 15 CONTAINS THE VALUE RETURNED BY THE PROGRAM. OTHERWISE THE ONE FLAG SET ON INDICATES WHAT TYPE OF ERROR OCCURRED. |
|         |      | 1... ....  |     | VFPMBUSY     | "X'80" THE MODULE WAS FOUND BUT WAS IN USE, AND IS THEREFORE UNAVAILABLE. THE MODULE WAS NOT GIVEN CONTROL. RETRY BY INVOKING THE FIND FUNCTION.                                                                                |
|         |      | .1.. ....  |     | VFPMRESH     | "X'40" GET WAS UNABLE TO OBTAIN THE REQUESTED MODULE. THE MODULE WAS NOT GIVEN CONTROL. RETRY BY INVOKING THE FIND FUNCTION.                                                                                                    |
|         |      | ..1. ....  |     | VFPMAPF      | "X'20" AN ATTEMPT WAS MADE BY AN AUTHORIZED CALLER TO INVOKE A MODULE FROM A NON-APF LIBRARY. THE MODULE WAS NOT GIVEN CONTROL. RETRY OF VIRTUAL FETCH SHOULD NOT BE ATTEMPTED.                                                 |



| Offsets |      | Type/Value | Len | Name (Dim) | Description                                                                                                                                                        |
|---------|------|------------|-----|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  |            |     |            |                                                                                                                                                                    |
|         |      | ...1 ....  |     | VFPMBADP   | "X'10" INVALID PARAMETERS WERE RECEIVED BY GET. THE MODULE WAS NOT GIVEN CONTROL. RETRY BY INVOKING GET WITH A VALID PARAMETER LIST.                               |
|         |      | .... 1...  |     | VFPMBADE   | "X'08" AN ENVIRONMENTAL ERROR OCCURRED (GETMAIN FAILED, ESTAE FAILED ETC.). THE MODULE WAS NOT GIVEN CONTROL. RETRY BY CLEANING UP AND INVOKING THE FIND FUNCTION. |
|         |      | .... .1..  |     | VFPMAPPL   | "X'04" THE REQUESTED PROGRAM ABENDED. THIS FLAG SHOULD BE CHECKED WHENEVER THE CALLERS ESTAE GAINS CONTROL. RETRY BY INVOKING THE FIND FUNCTION.                   |
|         |      | .... ..1.  |     | VFPMRTN6   | "X'02" RESERVED                                                                                                                                                    |
|         |      | .... ...1  |     | VFPMRTN7   | "X'01" RESERVED                                                                                                                                                    |
| 87      | (57) | X'58'      | 0   | VFPMLEN    | **_VFPM" LENGTH OF PARAMETER LIST                                                                                                                                  |
| 87      | (57) | X'0'       | 0   | VFPMFRST   | "VFPM" FIRST BYTE OF THE PARAMETER LIST                                                                                                                            |
| 87      | (57) | X'57'      | 0   | VFPMLAST   | **_1" LAST BYTE OF THE PARAMETER LIST                                                                                                                              |

### VFPM Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| VFPM     | 0          |           |
| VFPMAPF  | 57         | 20        |
| VFPMAPPL | 57         | 4         |
| VFPMBADE | 57         | 8         |
| VFPMBADP | 57         | 10        |
| VFPMBLD  | 55         | 1         |
| VFPMBUSY | 57         | 80        |
| VFPMFIND | 55         | 2         |
| VFPMFLAG | 56         |           |
| VFPMFRST | 57         | 0         |
| VFPMFUNC | 55         |           |
| VFPMGET  | 55         | 3         |
| VFPMGETM | 56         | 80        |
| VFPMLAST | 57         | 57        |
| VFPMLEN  | 57         | 58        |
| VFPMLVL  | 54         |           |
| VFPMNAME | 4C         |           |
| VFPMNAML | 4C         |           |
| VFPMNAMR | 50         |           |
| VFPMREG1 | 48         |           |
| VFPMRESH | 57         | 40        |
| VFPMRES1 | 56         | 40        |
| VFPMRES2 | 56         | 20        |
| VFPMRES3 | 56         | 10        |
| VFPMRES4 | 56         | 8         |
| VFPMRES5 | 56         | 4         |
| VFPMRES6 | 56         | 2         |
| VFPMRES7 | 56         | 1         |
| VFPMRTN  | 57         |           |
| VFPMRTN6 | 57         | 2         |
| VFPMRTN7 | 57         | 1         |
| VFPMSAVE | 0          |           |



## VFVT Heading Information

**Common Name:** Virtual Fetch Vector Table  
**Macro ID:** IHAVFVT  
**DSECT Name:** VFVT  
**Owning Component:** Contents Supervisor (SC1CJ)  
**Eye-Catcher ID:** VFVT  
**Offset:** Offset 0, Length 4  
**Subpool and Key:** Subpool 254 and key 0  
**Size:** 144 bytes  
**Created by:** CSVVFNDE  
**Pointed to by:** ASXBVFVT  
**Serialization:** Local Lock  
**Function:** Contains information concerning status of Virtual Fetch in a given user's address space, and the hashed directory of modules to be managed by Virtual Fetch for this address space.

### VFVT Map

| Offsets |      |            |     |               |                                                                                                                                                                                                                          |
|---------|------|------------|-----|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)    | Description                                                                                                                                                                                                              |
| 0       | (0)  | STRUCTURE  | 144 | VFVT          | Virtual Fetch Vector Table                                                                                                                                                                                               |
| 0       | (0)  | CHARACTER  | 4   | VFVTID        | Control block ID ("VFVT")                                                                                                                                                                                                |
| 4       | (4)  | SIGNED     | 4   | VFVTTCB       | Address of the Job Step TCB on whose behalf Virtual Fetch built VFVKs                                                                                                                                                    |
| 8       | (8)  | BITSTRING  | 2   | VFVTFLAG      | Flag fields                                                                                                                                                                                                              |
| 8       | (8)  | BITSTRING  | 1   | VFVTFLG1      | Reserved                                                                                                                                                                                                                 |
|         |      | 1... ..    |     | VFVTVFUP      | Indicates whether this address space's VFVKs are still usable<br>NOTE: this field is set to OFF whenever CSVVFNDE or CSVVFGTE's recovery routines are running and set back ON if the error is not fatal to Virtual Fetch |
|         |      | .1.. ....  |     | VFVTF1R2      | Reserved                                                                                                                                                                                                                 |
|         |      | ..1. ....  |     | VFVTF1R3      | Reserved                                                                                                                                                                                                                 |
|         |      | ...1 ....  |     | VFVTF1R4      | Reserved                                                                                                                                                                                                                 |
|         |      | .... 1...  |     | VFVTF1R5      | Reserved                                                                                                                                                                                                                 |
|         |      | .... .1..  |     | VFVTF1R6      | Reserved                                                                                                                                                                                                                 |
|         |      | .... ..1.  |     | VFVTF1R7      | Reserved                                                                                                                                                                                                                 |
|         |      | .... ...1  |     | VFVTF1R8      | Reserved                                                                                                                                                                                                                 |
| 9       | (9)  | BITSTRING  | 1   | VFVTRSRD      | Reserved                                                                                                                                                                                                                 |
| 10      | (A)  | SIGNED     | 2   | VFVTACNT      | Number of user ABENDs for which clean up has not yet been performed. Serialized by the LOCAL lock.                                                                                                                       |
| 12      | (C)  | BITSTRING  | 4   | VFVTLHSH      | Hash constant for local VFVK hash table                                                                                                                                                                                  |
| 16      | (10) | ADDRESS    | 4   | VFVTHASH (32) | Pointer to the local VFVK hash table. Serialized by the LOCAL lock.                                                                                                                                                      |

## VFVT Constants • VFVT Cross Reference

### VFVT Constants

| Len | Type      | Value | Name     | Description             |
|-----|-----------|-------|----------|-------------------------|
| 4   | DECIMAL   | 144   | VFVTLEN  | Length of the VFVT      |
| 4   | CHARACTER | VFVT  | NVFVTID  | VFVT's identifier       |
| 4   | DECIMAL   | 254   | NVFVT254 | Subpool VFVT resides in |

### VFVT Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| VFVT     | 0          |           |
| VFVTACNT | A          |           |
| VFVTFLAG | 8          |           |
| VFVTFLG1 | 8          |           |
| VFVTF1R2 | 8          | 40        |
| VFVTF1R3 | 8          | 20        |
| VFVTF1R4 | 8          | 10        |
| VFVTF1R5 | 8          | 08        |
| VFVTF1R6 | 8          | 04        |
| VFVTF1R7 | 8          | 02        |
| VFVTF1R8 | 8          | 01        |
| VFVTHASH | 10         |           |
| VFVTID   | 0          |           |
| VFVTLHSH | C          |           |
| VFVTRSRD | 9          |           |
| VFVTTCB  | 4          |           |
| VFVTVFUP | 8          | 80        |

## VFWK Heading Information

**Common Name:** Virtual Fetch Work Area  
**Macro ID:** IHAVFWK  
**DSECT Name:** VFWK  
**Owning Component:** Contents Supervisor (SC1CJ)  
**Eye-Catcher ID:** VFWK  
**Offset:** Offset 0, Length 4  
**Subpool and Key:** Subpool 254 and key 0  
**Size:** 112 bytes  
**Created by:** CSVVFNDE  
**Pointed to by:** VFWTHASH plus calculated index into the hash table in the VFVT.  
**Serialization:** Local Lock  
**Function:** Contains information concerning a particular module being managed by Virtual Fetch for a particular user, and includes a CDE for that module.

### VFWK Map

| Offsets |      |            |     |            |                                                                                                                            |
|---------|------|------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                |
| 0       | (0)  | STRUCTURE  | 112 | VFWK       | Virtual Fetch Work Area                                                                                                    |
| 0       | (0)  | CHARACTER  | 4   | VFWKID     | Control block ID ("VFWK")                                                                                                  |
| 4       | (4)  | ADDRESS    | 4   | VFWKSYNP   | Address of next VFWK on the synonym chain                                                                                  |
| 8       | (8)  | CHARACTER  | 40  | VFWKDE     | Virtual Fetch Directory Entry (VFDE) format data obtained from the Virtual Fetch service address space by routine CSVVFSCH |
| 8       | (8)  | CHARACTER  | 8   | VFWKNAME   | Entry point name (not set by CSVVFSCH)                                                                                     |
| 8       | (8)  | CHARACTER  | 4   | VFWKNAML   | Left four chars of name                                                                                                    |
| 12      | (C)  | CHARACTER  | 4   | VFWKNAMR   | Right four chars of name                                                                                                   |
| 16      | (10) | CHARACTER  | 8   | VFWKLPID   | Logical Page Identifier - LPID                                                                                             |
| 16      | (10) | UNSIGNED   | 4   | VFWKLGN    | Logical Group Number                                                                                                       |
| 20      | (14) | UNSIGNED   | 4   | VFWKRPN    | 1st relative Page Number                                                                                                   |
| 24      | (18) | UNSIGNED   | 4   | VFWKMODL   | Size of reformatted module                                                                                                 |
| 28      | (1C) | UNSIGNED   | 4   | VFWKEPA    | Offset of entry point                                                                                                      |
|         |      | 1... ....  |     | VFWKAM31   | 31-bit AMODE indicator                                                                                                     |
|         |      | .111 1111  |     | VFWKZR03   | Padding- must be 0                                                                                                         |
| 29      | (1D) | ADDRESS    | 3   | VFWKEPA1   | Offset of entry point                                                                                                      |
| 32      | (20) | UNSIGNED   | 4   | VFWKRLDP   | Offset of relocation data                                                                                                  |
| 36      | (24) | UNSIGNED   | 1   | VFWKDEF1   | Flag byte for VFDE                                                                                                         |
|         |      | 1... ....  |     | VFWKRENT   | Module is reentrant                                                                                                        |
|         |      | .1.. ....  |     | VFWKREUS   | Module is serially reusable                                                                                                |
|         |      | ..1. ....  |     | VFWKDFL3   | Reserved flag                                                                                                              |
|         |      | ...1 ....  |     | VFWKDFL4   | Reserved flag                                                                                                              |
|         |      | .... 1...  |     | VFWKAPFL   | Module comes from authorized library                                                                                       |
|         |      | .... .1..  |     | VFWKDFL6   | Reserved flag                                                                                                              |
|         |      | .... .1..  |     | VFWKANYM   | AMODE=any indicator (control will be passed in the AMODE of the caller).                                                   |
|         |      | .... ...1  |     | VFWKRMOD   | RMODE of this module                                                                                                       |
| 37      | (25) | CHARACTER  | 3   | VFWKDRS1   | Reserved field                                                                                                             |
| 40      | (28) | CHARACTER  | 8   | VFWKRESH   | the refresh value for this Virtual Fetch VIO data set in TIMER units                                                       |
| 40      | (28) | UNSIGNED   | 4   | VFWKRSH1   | First half of TIMER value for refresh                                                                                      |
| 44      | (2C) | UNSIGNED   | 4   | VFWKRSH2   | Second half of TIMER value for refresh                                                                                     |
| 48      | (30) | CHARACTER  | 32  | VFWKCDE    | CDE for Module                                                                                                             |
| 80      | (50) | CHARACTER  | 16  | VFWKXLST   | Extent list for Module                                                                                                     |
| 96      | (60) | ADDRESS    | 4   | VFWKVSA    | Address of module storage area in address space of user (set after GETMAIN, and zeroed before FREEMAIN)                    |
| 100     | (64) | ADDRESS    | 4   | VFWKVCB    | Address of start of VCBs area (set after GETMAIN, and zeroed before FREEMAIN)                                              |
| 104     | (68) | SIGNED     | 2   | VFWKNPGS   | Number of pages required for the module area                                                                               |

## VFWK Constants • VFWK Cross Reference

| Offsets |      |            |     |            |                                                                                                                                                                                   |
|---------|------|------------|-----|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                       |
| 106     | (6A) | UNSIGNED   | 1   | VFWKFLG1   | First Flag Byte for VFWK                                                                                                                                                          |
|         |      | 1... ....  |     | VFWKGMND   | Storage for the module and VCBs exists                                                                                                                                            |
|         |      | .1.. ....  |     | VFWKF1R2   | Reserved flag                                                                                                                                                                     |
|         |      | ..1. ....  |     | VFWKF1R3   | Reserved flag                                                                                                                                                                     |
|         |      | ...1 ....  |     | VFWKF1R4   | Reserved flag                                                                                                                                                                     |
|         |      | .... 1..   |     | VFWKF1R5   | Reserved flag                                                                                                                                                                     |
|         |      | .... .1..  |     | VFWKF1R6   | Reserved flag                                                                                                                                                                     |
|         |      | .... ..1.  |     | VFWKF1R7   | Reserved flag                                                                                                                                                                     |
|         |      | .... ...1  |     | VFWKF1R8   | Reserved flag                                                                                                                                                                     |
| 107     | (6B) | UNSIGNED   | 1   | VFWKFLG2   | Second Flag Byte for VFWK                                                                                                                                                         |
|         |      | 1... ....  |     | VFWKBADM   | Indicates that this module cannot be retrieved from this generation of the Virtual Fetch VIO dataset                                                                              |
|         |      | .1.. ....  |     | VFWKBADV   | Indicates this VFWK is unusable because its associated CDE cannot be removed from the Job Pack Queue(JPQ) or its associated module storage cannot be FREEMAINed                   |
|         |      | ..1. ....  |     | VFWKNFXM   | The current generation of virtual fetch does not have directory information (VFDE) about this module                                                                              |
|         |      | ...1 ....  |     | VFWKABND   | The last time this module was invoked by virtual fetch the module suffered a user abend. The VFWKTCB field points to the current owner of this VFWK and its associated resources. |
|         |      | .... 1..   |     | VFWKF2R5   | Reserved flag                                                                                                                                                                     |
|         |      | .... .1..  |     | VFWKF2R6   | Reserved flag                                                                                                                                                                     |
|         |      | .... ..1.  |     | VFWKF2R7   | Reserved flag                                                                                                                                                                     |
|         |      | .... ...1  |     | VFWKF2R8   | Reserved flag                                                                                                                                                                     |
| 108     | (6C) | SIGNED     | 4   | VFWKTCB    | Address of the TCB of the caller who currently owns this VFWK                                                                                                                     |

### VFWK Constants

| Len | Type      | Value | Name     | Description                 |
|-----|-----------|-------|----------|-----------------------------|
| 4   | DECIMAL   |       | VFWKLEN  | Length of the VFWK          |
| 4   | CHARACTER | VFWK  | NVFWKID  | VFWK identifier             |
| 4   | DECIMAL   |       | NVFWK254 | Subpool the VFWK resides in |

### VFWK Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| VFWK     | 0          |           | VFWKF2R6 | 6B         | 04        |
| VFWKABND | 6B         | 10        | VFWKF2R7 | 6B         | 02        |
| VFWKAM31 | 1C         | 80        | VFWKF2R8 | 6B         | 01        |
| VFWKANYM | 24         | 02        | VFWKGMND | 6A         | 80        |
| VFWKAPFL | 24         | 08        | VFWKID   | 0          |           |
| VFWKBADM | 6B         | 80        | VFWKLG1  | 10         |           |
| VFWKBADV | 6B         | 40        | VFWKLPID | 10         |           |
| VFWKCDE  | 30         |           | VFWKMODL | 18         |           |
| VFWKDE   | 8          |           | VFWKNAME | 8          |           |
| VFWKDEF1 | 24         |           | VFWKNAML | 8          |           |
| VFWKDFL3 | 24         | 20        | VFWKNAMR | C          |           |
| VFWKDFL4 | 24         | 10        | VFWKNFXM | 6B         | 20        |
| VFWKDFL6 | 24         | 04        | VFWKNPGS | 68         |           |
| VFWKDRS1 | 25         |           | VFWKRENT | 24         | 80        |
| VFWKEPA  | 1C         |           | VFWKRESH | 28         |           |
| VFWKEPA1 | 1D         |           | VFWKREUS | 24         | 40        |
| VFWKFLG1 | 6A         |           | VFWKRLDP | 20         |           |
| VFWKFLG2 | 6B         |           | VFWKRMOD | 24         | 01        |
| VFWKF1R2 | 6A         | 40        | VFWKRPN  | 14         |           |
| VFWKF1R3 | 6A         | 20        | VFWKRSH1 | 28         |           |
| VFWKF1R4 | 6A         | 10        | VFWKRSH2 | 2C         |           |
| VFWKF1R5 | 6A         | 08        | VFWKSYNP | 4          |           |
| VFWKF1R6 | 6A         | 04        | VFWKTCB  | 6C         |           |
| VFWKF1R7 | 6A         | 02        | VFWKVCB  | 64         |           |
| VFWKF1R8 | 6A         | 01        | VFWKVSA  | 60         |           |
| VFWKF2R5 | 6B         | 08        | VFWKXLST | 50         |           |

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| VFWKZR03 | 1C            | 7F           |





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## VRAMAP Programming Interface information

Programming Interface information

VRAMAP

End of Programming Interface information

## VRAMAP Heading Information

**Common Name:** Variable Recording Area  
**Macro ID:** IHAVRA  
**DSECT Name:** VRAMAP  
**Owning Component:** RTM (SCRTM)  
**Eye-Catcher ID:** NONE  
**Storage Attributes:** Subpool: Same as containing structure  
 Key: Same as containing structure  
**Size:** Variable (255 byte max.)  
**Created by:** The SDWA is created by RTM. Recovery routines can create formatted data within the SDWAVRA field.  
**Pointed to by:** N/A  
**Serialization:** Same as containing structure  
**Function:** Maps the SDWA Variable Recording Area (SDWAVRA) or a component-maintained area in a key, length, data format, to speed up error analysis. Also provides constants for SDWA data and for ABDUMP symptom data.

## VRAMAP Map

| Offsets |     |            |     |            |                                                                                                                                        |
|---------|-----|------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                                                                                                            |
| 0       | (0) | STRUCTURE  | 0   | VRAMAP     |                                                                                                                                        |
| 0       | (0) | SIGNED     | 2   | VRAKL (0)  | USE THIS LABEL TO OBTAIN THE LENGTH OF THE NEXT TWO FIELDS.                                                                            |
| 0       | (0) | SIGNED     | 1   | VRAKEY     | KEY TO IDENTIFY THE DATA THAT FOLLOWS. THE POSSIBLE VALUES FOR THIS FIELD ARE GIVEN AS CONSTANTS THAT FOLLOW THE VRAMAP DECLARE.       |
| 1       | (1) | SIGNED     | 1   | VRALEN     | LENGTH OF THE DATA THAT FOLLOWS. THE CONSTANTS FOR VRAKEY INDICATE SOME RECOMMENDED LENGTHS.                                           |
| 2       | (2) | SIGNED     | 1   | VRADAT (0) | VARIABLE LENGTH DATA. THIS DATA IS FOLLOWED BY ADDITIONAL KEY, LENGTH, AND DATA FIELDS UNTIL ALL USER DATA IS SUPPLIED.                |
| 2       | (2) | X'2'       | 0   | VRALENKL   | "VRADAT-VRAKL" LENGTH OF THE VRAKL FIELD (VRAKEY AND VRALEN), FOR USE IN UPDATING THE POINTER TO THE NEXT FIELD IN THE RECORDING AREA. |

Comment

THE FOLLOWING CONSTANTS GIVE THE VALUES THAT ARE SUPPORTED FOR VRAKEY FIELDS. THE MEANINGS OF KEYS 200 ('C8'X) TO 239 ('EF'X) MAY BE ASSIGNED BY EACH RECOVERY ROUTINE. THE MEANINGS OF THE OTHER KEYS ARE ASSIGNED BY THE OWNER OF THE IHAVRA MACRO. KEYS CAN BE REPEATED IN A VARIABLE RECORDING AREA IN ORDER TO SUPPLY SEVERAL FOOTPRINT AREAS, ETC. HOWEVER, FOR DUMP ANALYSIS AND ELIMINATION, ONLY THE FIRST OCCURRENCE OF A KEY WILL BE USED.

THE SDWACID, SDWASC, SDWAMLVL, SDWACRC, AND SDWARRL FIELDS SHOULD BE USED INSTEAD OF THE VRACOM, VRASC, VRALVL, VRARC, AND VRARRL KEYS FOR OS/VS2 JBB1226 AND HIGHER LEVEL MODULES.

End of Comment

|   |     |      |   |        |                                                                                                                                       |
|---|-----|------|---|--------|---------------------------------------------------------------------------------------------------------------------------------------|
| 2 | (2) | X'1' | 0 | VRACOM | "1" THE VRADAT DATA IS THE 5-BYTE EBCDIC COMPONENT ID (SUCH AS SC1CR). USE THE SDWACID FIELD INSTEAD OF THIS KEY. SEE THE ABOVE NOTE. |
| 2 | (2) | X'2' | 0 | VRASC  | "2" THE DATA IS EBCDIC TEXT TO IDENTIFY THE SUBCOMPONENT OR SUBFUNCTION THAT FAILED (SUCH AS RSM-PGFIX), IF NOT IN SDWASC             |

| Offsets |     | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------|-----|------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex |            |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 2       | (2) | X'3'       | 0   | VRALVL     | "3" THE DATA IS THE EBCDIC LEVEL FOR THE FAILING MODULE, IN COMPILEDATEBBPTF--OR SU OR PRODUCT NUMBER--FORMAT (SUCH AS 78.256 UZ86400), AS PRODUCED BY THE PLS ID MACRO ON A PLS PROC STATEMENT OR BY THE MODID MACRO, IF NOT IN SDWAMLVL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2       | (2) | X'4'       | 0   | VRADT      | "4" THE DATA IS THE EBCDIC ASSEMBLY DATE FOR THE FAILING MODULE, IN YY.DDD OR MM/DD/YY FORMAT, IF NOT SUPPLIED VIA VRALVL OR SDWAMLVL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2       | (2) | X'5'       | 0   | VRAPTF     | "5" THE DATA IS THE 7-BYTE EBCDIC PTF, SU, OR PRODUCT NUMBER FOR THE FAILING MODULE, (SUCH AS UZ86400), IF NOT SUPPLIED VIA SDWAMLVL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2       | (2) | X'6'       | 0   | VRARC      | "6" THE DATA IS A HEXADECIMAL RETURN OR REASON CODE OR OTHER CODE FOR THE FAILURE. (IF NOT IN SDWACRC, SUPPLY THIS EVEN IF GIVEN IN REGISTER 15.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2       | (2) | X'7'       | 0   | VRAQVOD    | "7" THE DATA IS THE REGISTER 15 AND ERROR PORTIONS OF THE QUEUE VERIFIER OUTPUT DATA, AS MAPPED BY THE IHAQVOD MACRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2       | (2) | X'8'       | 0   | VRAQERR    | "8" THIS KEY INDICATES A QUEUE ERROR FOR THE CONTROL BLOCK (C.B.) KEY OR GROUP OF KEYS THAT FOLLOW. THE DATA IS AN OPTIONAL 2 BYTE REASON CODE FOR THE QUEUE ERROR, OPTIONALLY FOLLOWED BY A 2 BYTE OFFSET OF THE FIELD IN ERROR, OPTIONALLY FOLLOWED BY A 1 BYTE POSITION OF A BIT IN ERROR. REASON CODES 225 TO 512 ARE ASSIGNED BY THE OWNER OF THIS MACRO. 240 = ZERO ADDRESS, 241 = POINTS TO C.B. WITH INVALID ID, 250 = OTHER TYPE OF BAD ADDRESS, 251 = BIT SETTING IN ERROR, 252 = INVALID C.B. ID, 254 = C.B. MARKED INVALID, 255 = OVERLAP DETECTED IN C.B., 256 = STORAGE CHECK IN C.B., 267 = FIELD VALUE IS NOT A PROPER MULTIPLE, 268 = VALUE IS NOT ON PROPER BOUNDARY, 270 = OTHER UNSUPPORTED VALUE, 271 = OTHER BAD DATA. |
| 2       | (2) | X'9'       | 0   | VRALVLS    | "9" THE DATA IS THE EBCDIC SYSTEM RELEASE OR PROGRAM PRODUCT/COMPONENT LEVEL THAT THE PROBLEM OCCURS ON (THE RECOMMENDED LENGTH IS 3 BYTES.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2       | (2) | X'10'      | 0   | VRARRP     | "16" ('10'X) THE DATA IS THE HEXADECIMAL RECOVERY ROUTINE PARAMETER LIST, WITH 24 BYTE MAXIMUM LENGTH IF FRR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2       | (2) | X'11'      | 0   | VRACBM     | "17" ('11'X) THE DATA IS THE MAPPING MACRO NAME FOR THE CONTROL BLOCK IN THE NEXT DATA FIELD (SUCH AS IKJTCB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2       | (2) | X'12'      | 0   | VRACB      | "18" ('12'X) THE DATA IS THE HEXADECIMAL CONTENTS OF A CONTROL BLOCK OR A PORTION OF A CONTROL BLOCK.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2       | (2) | X'13'      | 0   | VRACBF     | "19" ('13'X) THE DATA IS THE NAME OF A CONTROL BLOCK FIELD. IT IS PRECEDED BY THE MAPPING MACRO NAME (SEE VRACBM) AND IT IS FOLLOWED BY THE VRACB KEY AND DATA, WHICH CAN BE A SINGLE CONTROL BLOCK FIELD OR A SECTION OF A CONTROL BLOCK, STARTING WITH THIS FIELD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2       | (2) | X'14'      | 0   | VRACBA     | "20" ('14'X) THE DATA IS THE 4 BYTE ADDRESS OF A CONTROL BLOCK (WHICH MAY BE IDENTIFIED BY VRACBM DATA), OPTIONALLY FOLLOWED BY THE 2 BYTE ASID FOR THE CONTROL BLOCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2       | (2) | X'15'      | 0   | VRACBO     | "21" ('15'X) THE DATA IS THE OFFSET OF A CONTROL BLOCK FIELD. IT IS PRECEDED BY THE MAPPING MACRO NAME (SEE VRACBM) AND IT IS FOLLOWED BY THE VRACB KEY AND DATA, WHICH CAN BE A SINGLE FIELD OR A SECTION OF A CONTROL BLOCK, STARTING AT THIS OFFSET. (THE VRACBO KEY IS USEFUL IF THE VRACBF DATA TAKES UP TOO MUCH VRA SPACE.)                                                                                                                                                                                                                                                                                                                                                                                                           |

## VRAMAP Map

| Offsets |     | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                                                                        |
|---------|-----|------------|-----|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex |            |     |            |                                                                                                                                                                                                                                                                    |
| 2       | (2) | X'16'      | 0   | VRACBL     | "22" ('16'X) THE DATA IS THE LENGTH OF THE CONTROL BLOCK THAT IS AT THE ADDRESS IDENTIFIED BY THE ADDRESS IDENTIFIED BY THE VRACBA KEY                                                                                                                             |
| 2       | (2) | X'18'      | 0   | VRACBI     | "24" ('18'X) THE DATA IS A ONE BYTE CONTROL BLOCK ID NUMBER, FOLLOWED BY THE CONTROL BLOCK. IDS 200-239 CAN BE ASSIGNED BY THE INDIVIDUAL RECOVERY ROUTINE. THE OTHER IDS ARE ASSIGNED BY THE OWNER OF THE IHAVRA MACRO. 1=UCB, 2=RCA, 3=IOSB, 4=ASCB, 5=SVRB XSA. |
| 2       | (2) | X'19'      | 0   | VRACBIA    | "25" ('19'X) THE DATA IS A ONE BYTE C.B. ID NUMBER (AS DEFINED UNDER VRACBI) AND ONE ZEROED BYTE, FOLLOWED BY THE 4 BYTE C.B. ADDRESS AND AN OPTIONAL 2 BYTE C.B. LENGTH. THE LENGTH CAN BE FOLLOWED BY AN OPTIONAL 2 BYTE ASID.                                   |
| 2       | (2) | X'1A'      | 0   | VRACBI2    | "26" ('1A'X) THE DATA IS A ONE BYTE CONTROL BLOCK ID NUMBER AND ONE ZEROED BYTE, FOLLOWED BY THE CONTROL BLOCK. SEE VRACBI FOR THE DEFINITION OF THE C.B. ID NUMBER.                                                                                               |
| 2       | (2) | X'20'      | 0   | VRAPLI     | "32" ('20'X) THE DATA IS EBCDIC TEXT TO IDENTIFY THE PARAMETER LIST IN THE NEXT DATA FIELD. (IF IT HAS A MAPPING MACRO, USE THE VRACBM AND VRACB KEYS, INSTEAD.)                                                                                                   |
| 2       | (2) | X'21'      | 0   | VRAPL      | "33" ('21'X) THE DATA IS THE HEXADECIMAL CONTENTS OF A PARAMETER LIST                                                                                                                                                                                              |
| 2       | (2) | X'22'      | 0   | VRAFPI     | "34" ('22'X) THE DATA IS EBCDIC TEXT TO IDENTIFY THE FOOTPRINT AREA DATA IN THE NEXT DATA FIELD                                                                                                                                                                    |
| 2       | (2) | X'23'      | 0   | VRAFP      | "35" ('23'X) THE DATA IS THE HEXADECIMAL CONTENTS OF A FOOTPRINT AREA                                                                                                                                                                                              |
| 2       | (2) | X'24'      | 0   | VRAPA      | "36" ('24'X) THE DATA DESCRIBES THE EXECUTION PATH UP TO THE TIME OF THE ERROR. IT CONSISTS OF FOUR (EBCDIC) CHARACTERS TO IDENTIFY EACH SUBROUTINE OR MODULE THAT WAS INVOKED. THE FOUR RIGHTMOST CHARACTERS IDENTIFY THE LAST ROUTINE THAT WAS INVOKED.          |
| 2       | (2) | X'25'      | 0   | VRAP2      | "37" ('25'X) THE DATA DESCRIBES THE EXECUTION PATH IN THE SAME FORMAT AS THE VRAPA KEY, BUT THE ID IS TWO CHARACTERS, NOT FOUR                                                                                                                                     |
| 2       | (2) | X'26'      | 0   | VRALK      | "38" ('26'X) THE DATA IS THE EBCDIC NAME OF A LOCK THAT IS HELD                                                                                                                                                                                                    |
| 2       | (2) | X'27'      | 0   | VRAWAI     | "39" ('27'X) THE DATA IS EBCDIC TEXT TO IDENTIFY THE WORK AREA IN THE NEXT DATA FIELD                                                                                                                                                                              |
| 2       | (2) | X'28'      | 0   | VRAWA      | "40" ('28'X) THE DATA IS THE HEXADECIMAL CONTENTS OF A WORK AREA THAT HAS NO MAPPING MACRO                                                                                                                                                                         |
| 2       | (2) | X'29'      | 0   | VRAWAP     | "41" ('29'X) THE DATA IS THE ADDRESS OF A WORK AREA (WHICH MAY BE IDENTIFIED BY VRAWAI DATA)                                                                                                                                                                       |
| 2       | (2) | X'30'      | 0   | VRALBL     | "48" ('30'X) THE DATA IS AN EBCDIC LABEL RELATED TO THE FAILURE, SUCH AS THE LABEL OF THE CSECT THAT FAILED (IF THE CSECT IS NOT AT THE BEGINNING OF THE FAILING MICROFICHE MODULE NAMED IN SDWACSCT)                                                              |
| 2       | (2) | X'31'      | 0   | VRARRL     | "49" ('31'X) THE DATA IS THE LABEL OF THE RECOVERY ROUTINE HANDLING THE ERROR, IF THE RECOVERY ROUTINE IS NOT AT THE BEGINNING OF THE MICROFICHE MODULE, SDWAREXN AND CANNOT SUPPLY IN SDWARRL FIELD                                                               |
| 2       | (2) | X'33'      | 0   | VRAMID     | "51" ('33'X) THE DATA IS AN EBCDIC MESSAGE ID FOR A MESSAGE RELATED TO THE FAILURE, WITH MESSAGE TEXT OPTIONALLY APPEARING IN THE NEXT DATA FIELD                                                                                                                  |
| 2       | (2) | X'34'      | 0   | VRAMSG     | "52" ('34'X) THE DATA IS EBCDIC MESSAGE TEXT FOR THE MESSAGE ID IN THE VRAMID DATA FIELD                                                                                                                                                                           |
| 2       | (2) | X'35'      | 0   | VRAERR     | "53" ('35'X) THE DATA IS EBCDIC INFORMATION ABOUT THE CAUSE OF THE ERROR (SUCH AS WHAT CONTROL BLOCK QUEUE FAILED AND WHERE)                                                                                                                                       |

| Offsets |     | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                            |
|---------|-----|------------|-----|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex |            |     |            |                                                                                                                                                                                                        |
| 2       | (2) | X'36'      | 0   | VRAEHX     | "54" ('36'X) THE DATA IS HEXADECIMAL INFORMATION ABOUT THE CAUSE OF THE ERROR (SUCH AS THE ADDRESS OF AN INVALID QUEUE ELEMENT), AS EXPLAINED BY THE VRAERR DATA FIELD                                 |
| 2       | (2) | X'37'      | 0   | VRAHID     | "55" ('37'X) THE DATA IS AN EBCDIC HEADER TO IDENTIFY THE INFORMATION IN THE FIELD THAT FOLLOWS IT IN THE VARIABLE RECORDING AREA                                                                      |
| 2       | (2) | X'38'      | 0   | VRAHEX     | "56" ('38'X) THE DATA IS HEXADECIMAL INFORMATION                                                                                                                                                       |
| 2       | (2) | X'39'      | 0   | VRAEBC     | "57" ('39'X) THE DATA IS EBCDIC INFORMATION                                                                                                                                                            |
| 2       | (2) | X'3A'      | 0   | VRAAID     | "58" ('3A'X) THE DATA IS THE 2-BYTE HEXADECIMAL ASID ON WHOSE BEHALF THE FAILING ASID WAS OPERATING                                                                                                    |
| 2       | (2) | X'3B'      | 0   | VRATCB     | "59" ('3B'X) THE DATA IS THE ADDRESS OF THE TCB ON WHOSE BEHALF THE FAILING FUNCTION WAS OPERATING                                                                                                     |
| 2       | (2) | X'3C'      | 0   | VRACA      | "60" ('3C'X) THE DATA IS THE ADDRESS OF THE CALLER (INVOKER) OF THE FAILING FUNCTION                                                                                                                   |
| 2       | (2) | X'3D'      | 0   | VRACAN     | "61" ('3D'X) THE DATA IS THE NAME OF THE MODULE THAT CALLED THE FAILING FUNCTION                                                                                                                       |
| 2       | (2) | X'40'      | 0   | VRAOA      | "64" ('40'X) THE DATA IS THE ORIGINAL HEXADECIMAL ABEND COMPLETION CODE, BEFORE IT WAS CHANGED TO A COMPONENT-RELATED ABEND CODE. (THE RECOMMENDED LENGTH IS 3 BYTES.)                                 |
| 2       | (2) | X'41'      | 0   | VRAPSW     | "65" ('41'X) THE DATA IS THE PSW FROM THE ORIGINAL ABEND, OR ANOTHER PSW ASSOCIATED WITH THE ABEND                                                                                                     |
| 2       | (2) | X'42'      | 0   | VRAINS     | "66" ('42'X) THE DATA IS THE FAILING INSTRUCTION POINTED TO BY THE PSW FROM THE ORIGINAL ABEND, OR ANOTHER PSW ASSOCIATED WITH THE ABEND                                                               |
| 2       | (2) | X'43'      | 0   | VRAREGS    | "67" ('43'X) THE DATA IS THE GENERAL PURPOSE REGISTERS AT THE TIME OF THE ORIGINAL ABEND (OR OTHER REGISTERS ASSOCIATED WITH THE ABEND), IN THE ORDER INDICATED BY THE VRAFREG KEY                     |
| 2       | (2) | X'44'      | 0   | VRAREGA    | "68" ('44'X) THE DATA IS THE ADDRESS OF AN AREA WITH THE GENERAL PURPOSE REGISTERS AT THE TIME OF THE ORIGINAL ABEND (OR OTHER REGISTERS ASSOCIATED WITH THE ABEND), IN THE ORDER INDICATED BY VRAFREG |
| 2       | (2) | X'45'      | 0   | VRAOR15    | "69" ('45'X) THE DATA IS REGISTER 15 AT THE TIME OF THE ORIGINAL ABEND                                                                                                                                 |
| 2       | (2) | X'46'      | 0   | VRADSN     | "70" ('46'X) THE DATA IS THE EBCDIC NAME OF A DATA SET ASSOCIATED WITH THE FAILURE (SUCH AS SYS1.PAGE01)                                                                                               |
| 2       | (2) | X'47'      | 0   | VRADEV     | "71" ('47'X) THE DATA IS THE EBCDIC NAME OF A DEVICE ASSOCIATED WITH THE FAILURE                                                                                                                       |
| 2       | (2) | X'48'      | 0   | VRASN      | "72" ('48'X) THE DATA IS HEXADECIMAL I/O SENSE DATA                                                                                                                                                    |
| 2       | (2) | X'49'      | 0   | VRAST      | "73" ('49'X) THE DATA IS HEXADECIMAL I/O STATUS DATA                                                                                                                                                   |
| 2       | (2) | X'4A'      | 0   | VRAU       | "74" ('4A'X) THE DATA IS AN EBCDIC UNIT ADDRESS OR UNIT NAME (UCBNAME)                                                                                                                                 |
| 2       | (2) | X'4B'      | 0   | VRACCW     | "75" ('4B'X) THE DATA IS THE HEXADECIMAL CCW FOR AN I/O REQUEST                                                                                                                                        |
| 2       | (2) | X'4C'      | 0   | VRACSW     | "76" ('4C'X) THE DATA IS THE HEXADECIMAL CSW FOR AN I/O REQUEST                                                                                                                                        |
| 2       | (2) | X'4D'      | 0   | VRADVT     | "77" ('4D'X) THE DATA IS HEXADECIMAL DEVICE TYPE INFORMATION, IN THE SAME FORMAT AS THE UCBTYP FIELD                                                                                                   |
| 2       | (2) | X'4E'      | 0   | VRAVOL     | "78" ('4E'X) THE DATA IS AN EBCDIC VOLUME SERIAL NUMBER FOR A DATA SET ASSOCIATED WITH THE FAILURE                                                                                                     |
| 2       | (2) | X'50'      | 0   | VRAREQ     | "80" ('50'X) THE DATA IS ONE OR MORE KEYS WHICH ARE TO BE USED BY DAE FOR MATCHING FOR DUPLICATES. EACH KEY MUST BE A HALF WORD.                                                                       |
| 2       | (2) | X'51'      | 0   | VRAOPT     | "81" ('51'X) THE DATA IS ONE OR MORE KEYS WHICH, IF PRESENT, WILL BE USED BY DAE FOR MATCHING FOR DUPLICATES. EACH KEY MUST BE A HALF WORD.                                                            |

## VRAMAP Map

| Offsets |     |            |     |            |                                                                                                                                                                                                      |
|---------|-----|------------|-----|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                          |
| 2       | (2) | X'52'      | 0   | VRAMINSC   | "82" ('52'X) THE DATA IS A 2 BYTE MINIMUM COUNT OF SYMPTOMS REQUIRED BEFORE DAE CAN CARRY OUT MATCHING FOR DUPLICATES. THE DATA MUST BE 2 BYTES (HALF-WORD) IN LENGTH.                               |
| 2       | (2) | X'53'      | 0   | VRADAE     | "83" ('53'X) NO DATA IS ASSOCIATED WITH THIS KEY. THE KEY SHOULD BE PLACED INTO THE VRA PRIOR TO A DUMP REQUEST IF THE SDWA CONTAINS SUFFICIENT DATA FOR DAE TO UNIQUELY IDENTIFY THE DUMP.          |
| 2       | (2) | X'54'      | 0   | VRAMINSL   | "84" ('54'X) THE DATA IS A 2 BYTE MINIMUM LENGTH OF SYMPTOM STRING REQUIRED BEFORE DAE CAN CARRY OUT MATCHING FOR DUPLICATES.                                                                        |
| 2       | (2) | X'60'      | 0   | VRAFREG    | "96" ('60'X) THE DATA IS A 1 BYTE REGISTER NUMBER OF THE FIRST REGISTER IN THE VRAREGS OR VRAREGA AREA THAT FOLLOWS. DEFAULT IS REG.0. REG.14 INDICATES REGISTERS IN 14,15,0-12 ORDER.               |
| 2       | (2) | X'63'      | 0   | VRACSCB    | "99" ('63'X) THE DATA IS THE CSCB CONTROL BLOCK WITH THE OPERATOR COMMAND ASSOCIATED WITH THE FAILURE                                                                                                |
| 2       | (2) | X'64'      | 0   | VRACSCBA   | "100" ('64'X) THE DATA IS THE ADDRESS OF THE CSCB CONTROL BLOCK ASSOCIATED WITH THE FAILURE                                                                                                          |
| 2       | (2) | X'65'      | 0   | VRAJOB     | "101" ('65'X) THE DATA IS THE JOBNAME THAT FAILED. NOTE, THE JOBNAME IS ALSO IN THE ENTRY HEADER IN THE LOGREC DATA SET.                                                                             |
| 2       | (2) | X'66'      | 0   | VRASTP     | "102" ('66'X) THE DATA IS THE STEPNAME THAT FAILED                                                                                                                                                   |
| 2       | (2) | X'67'      | 0   | VRACMD     | "103" ('67'X) THE DATA IS AN EBCDIC TSO COMMAND OR OTHER COMMAND ASSOCIATED WITH THE FAILURE                                                                                                         |
| 2       | (2) | X'68'      | 0   | VRAJCL     | "104" ('68'X) THE DATA IS A JCL STATEMENT                                                                                                                                                            |
| 2       | (2) | X'69'      | 0   | VRANODAE   | "105" ('69'X) NO DATA IS ASSOCIATED WITH THIS KEY. THE KEY SHOULD BE PLACED INTO THE VRA PRIOR TO A DUMP REQUEST IF THE SDWA DOES NOT CONTAIN SUFFICIENT DATA FOR DAE TO UNIQUELY IDENTIFY THE DUMP. |
| 2       | (2) | X'73'      | 0   | VRAEPN     | "115" ('73'X) THE DATA IS THE NAME OF THE ENTRY POINT INVOLVED IN THE FAILURE                                                                                                                        |
| 2       | (2) | X'77'      | 0   | VRAETF     | "119" ('77'X) THE DATA IS THE ADDRESS OF THE ENTRY POINT INVOLVED IN THE FAILURE                                                                                                                     |
| 2       | (2) | X'78'      | 0   | VRACTF     | "120" ('78'X) THE DATA IS THE ADDRESS OF THE CSECT (ASSEMBLY MODULE) THAT FAILED                                                                                                                     |
| 2       | (2) | X'79'      | 0   | VRALTF     | "121" ('79'X) THE DATA IS THE ADDRESS OF THE LOAD MODULE THAT FAILED                                                                                                                                 |
| 2       | (2) | X'7A'      | 0   | VRAMO      | "122" ('7A'X) THE DATA IS THE HEXADECIMAL OFFSET OF THE FAILING CSECT (ASSEMBLY MODULE) INTO ITS LOAD MODULE                                                                                         |
| 2       | (2) | X'7B'      | 0   | VRAILO     | "123" ('7B'X) THE DATA IS THE HEXADECIMAL OFFSET OF THE FAILING INSTRUCTION INTO ITS LOAD MODULE                                                                                                     |
| 2       | (2) | X'7C'      | 0   | VRAIMO     | "124" ('7C'X) THE DATA IS THE HEXADECIMAL OFFSET OF THE FAILING INSTRUCTION INTO ITS CSECT (ASSEMBLY MODULE)                                                                                         |
| 2       | (2) | X'7D'      | 0   | VRAFID     | "125" ('7D'X) THE DATA IS THE EBCDIC FEATURE ID FOR THE FAILING CSECT (ASSEMBLY MODULE)                                                                                                              |
| 2       | (2) | X'7E'      | 0   | VRAPID     | "126" ('7E'X) THE DATA IS THE EBCDIC PRODUCT ID FOR THE FAILING MODULE                                                                                                                               |
| 2       | (2) | X'A0'      | 0   | VRAIAP     | "160" ('A0'X) THE DATA IS THE NAME OF AN ANALYTIC PROCEDURE TO BE RUN BY THE PROGRAM IDENTIFIED IN THE VRAIDP DATA                                                                                   |
| 2       | (2) | X'A1'      | 0   | VRAIAL     | "161" ('A1'X) THE DATA IS A PARAMETER LIST FOR USE BY THE ANALYTIC PROCEDURE IDENTIFIED IN THE VRAIAP DATA                                                                                           |
| 2       | (2) | X'A2'      | 0   | VRAICL     | "162" ('A2'X) THE DATA IS A PARAMETER LIST FOR USE IN CONTROL OF THE PROGRAM IDENTIFIED IN THE VRAIDP DATA                                                                                           |
| 2       | (2) | X'A3'      | 0   | VRAIDP     | "163" ('A3'X) THE DATA IS THE NAME OF THE DUMP (OR LOGREC) READING PROGRAM THAT SHOULD PROCESS THE DATA IN THE VRAIAP, VRAIAL, AND VRAICL FIELDS                                                     |

| Offsets |     |            |     |            |                                                                                                                                                                                                    |
|---------|-----|------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                        |
| 2       | (2) | X'A4'      | 0   | VRALKWA    | "164" ('A4'X) THE DATA IS THE ADDRESS OF THE LOCKWORD FOR THE LOCK INDICATED BY VRALK                                                                                                              |
| 2       | (2) | X'C8'      | 0   | VRARRK     | "200" ('C8'X) THIS KEY AND KEYS 201 THRU 239 ('EF'X) MAY BE DEFINED BY THE INDIVIDUAL RECOVERY ROUTINE. EACH KEY CAN BE PRECEDED BY THE VRAHID KEY AND TEXT TO IDENTIFY THE RECOVERY ROUTINE DATA. |

Comment

KEYS 201 THROUGH 239 MAY BE USED BY RECOVERY ROUTINES TO SUPPLY PROBLEM SYMPTOMS WHICH ARE NOT DESCRIBED BY THE PREVIOUS KEYS. EACH KEY REQUIRES A PARTICULAR TYPE OF DATA, AS FOLLOWS:

KEYS 201-224 - EBCDIC DATA

KEYS 225-234 - HEXADECIMAL DATA

KEYS 235-239 - FLAG DATA

End of Comment

|   |     |       |   |          |                                                                                              |
|---|-----|-------|---|----------|----------------------------------------------------------------------------------------------|
| 2 | (2) | X'C9' | 0 | VRARRK1  | "201" ('C9'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'CA' | 0 | VRARRK2  | "202" ('CA'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'CB' | 0 | VRARRK3  | "203" ('CB'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'CC' | 0 | VRARRK4  | "204" ('CC'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'CD' | 0 | VRARRK5  | "205" ('CD'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'CE' | 0 | VRARRK6  | "206" ('CE'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'CF' | 0 | VRARRK7  | "207" ('CF'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'D0' | 0 | VRARRK8  | "208" ('D0'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'D1' | 0 | VRARRK9  | "209" ('D1'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'D2' | 0 | VRARRK10 | "210" ('D2'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'D3' | 0 | VRARRK11 | "211" ('D3'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'D4' | 0 | VRARRK12 | "212" ('D4'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'D5' | 0 | VRARRK13 | "213" ('D5'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'D6' | 0 | VRARRK14 | "214" ('D6'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'D7' | 0 | VRARRK15 | "215" ('D7'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'D8' | 0 | VRARRK16 | "216" ('D8'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'D9' | 0 | VRARRK17 | "217" ('D9'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'DA' | 0 | VRARRK18 | "218" ('DA'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'DB' | 0 | VRARRK19 | "219" ('DB'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'DC' | 0 | VRARRK20 | "220" ('DC'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'DD' | 0 | VRARRK21 | "221" ('DD'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'DE' | 0 | VRARRK22 | "222" ('DE'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'DF' | 0 | VRARRK23 | "223" ('DF'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'E0' | 0 | VRARRK24 | "224" ('E0'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'E1' | 0 | VRARRK25 | "225" ('E1'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'E2' | 0 | VRARRK26 | "226" ('E2'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'E3' | 0 | VRARRK27 | "227" ('E3'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'E4' | 0 | VRARRK28 | "228" ('E4'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'E5' | 0 | VRARRK29 | "229" ('E5'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'E6' | 0 | VRARRK30 | "230" ('E6'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'E7' | 0 | VRARRK31 | "231" ('E7'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'E8' | 0 | VRARRK32 | "232" ('E8'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'E9' | 0 | VRARRK33 | "233" ('E9'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'EA' | 0 | VRARRK34 | "234" ('EA'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'EB' | 0 | VRARRK35 | "235" ('EB'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'EC' | 0 | VRARRK36 | "236" ('EC'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'ED' | 0 | VRARRK37 | "237" ('ED'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'EE' | 0 | VRARRK38 | "238" ('EE'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'EF' | 0 | VRARRK39 | "239" ('EF'X) KEY DEFINED BY THE RECOVERY ROUTINE                                            |
| 2 | (2) | X'FA' | 0 | VRASKP   | "250" ('FA'X) THIS KEY CAN BE USED TO SKIP TO A FULLWORD BOUNDARY. ANY DATA WILL BE IGNORED. |

## VRAMAP Map

| Offsets                                                |     |            |     |            |                                                                                                                                                                                                                                            |
|--------------------------------------------------------|-----|------------|-----|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec                                                    | Hex | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                                                |
| 2                                                      | (2) | X'FF'      | 0   | VRAEND     | "255" ('FF'X) THE DATA FROM THIS KEY FIELD TO THE END OF THE VARIABLE USER DATA IS NOT MAPPED. (THE SDWAURAL FIELD DEFINES THE LENGTH OF THE USER DATA IN THE SDWAVRA.) THIS KEY IS NOT NEEDED IF ALL OF THE USER-SUPPLIED DATA IS MAPPED. |
| Comment                                                |     |            |     |            |                                                                                                                                                                                                                                            |
| HEXADECIMAL KEYS FOR MAIN FIXED AREA OF SDWA           |     |            |     |            |                                                                                                                                                                                                                                            |
| End of Comment                                         |     |            |     |            |                                                                                                                                                                                                                                            |
| 2                                                      | (2) | X'3E9'     | 0   | EFABS      | "1001" ('3E9'X) THE DATA IS THE SYSTEM ABEND CODE.                                                                                                                                                                                         |
| 2                                                      | (2) | X'3EA'     | 0   | EFABU      | "1002" ('3EA'X) THE DATA IS THE USER ABEND CODE.                                                                                                                                                                                           |
| 2                                                      | (2) | X'3EB'     | 0   | EFLDMD     | "1003" ('3EB'X) THE DATA IS THE FAILING LOAD MODULE NAME.                                                                                                                                                                                  |
| 2                                                      | (2) | X'3EC'     | 0   | EFC SCT    | "1004" ('3EC'X) THE DATA IS THE FAILING CSECT NAME.                                                                                                                                                                                        |
| 2                                                      | (2) | X'3ED'     | 0   | EFREXN     | "1005" ('3E9'X) THE DATA IS THE RECOVERY ROUTINE NAME.                                                                                                                                                                                     |
| 2                                                      | (2) | X'3F3'     | 0   | EFPSW      | "1011" ('3E9'X) THE DATA IS THE PSW REGISTER DIFFERENCE.                                                                                                                                                                                   |
| Comment                                                |     |            |     |            |                                                                                                                                                                                                                                            |
| HEXADECIMAL KEYS FOR FIRST EXTENSION OF SDWA = SDWARC1 |     |            |     |            |                                                                                                                                                                                                                                            |
| End of Comment                                         |     |            |     |            |                                                                                                                                                                                                                                            |
| 2                                                      | (2) | X'44D'     | 0   | E1C1D1C    | "1101" THIS KEY SHOULD NOT BE USED. IT IS RETAINED FOR COMPATABILITY REASONS ONLY.                                                                                                                                                         |
| 2                                                      | (2) | X'44D'     | 0   | E1CID1C    | "1101" ('44D'X) THE DATA IS THE COMPONENT ID.                                                                                                                                                                                              |
| 2                                                      | (2) | X'44E'     | 0   | E1SUB1C    | "1102" ('44E'X) THE DATA IS THE SUBFUNCTION.                                                                                                                                                                                               |
| 2                                                      | (2) | X'451'     | 0   | E1AMD1C    | "1105" ('451'X) THE DATA IS THE ASSEMBLY DATE OF THE FAILING MODULE.                                                                                                                                                                       |
| 2                                                      | (2) | X'452'     | 0   | E1VRS1C    | "1106" ('452'X) THE DATA IS THE VERSION OF THE MODULE-PTF OR PRODUCT NUMBER.                                                                                                                                                               |
| 2                                                      | (2) | X'454'     | 0   | E1HRC1C    | "1108" ('454'X) THE DATA IS THE REASON OR RETURN CODE.                                                                                                                                                                                     |
| 2                                                      | (2) | X'456'     | 0   | E1RRL1C    | "1110" ('456'X) THE DATA IS THE LABEL OF THE RECOVERY ROUTINE THAT FILLED IN THIS SDWA.                                                                                                                                                    |
| 2                                                      | (2) | X'45A'     | 0   | E1CDB1C    | "1114" ('45A'X) THE DATA IS THE COMPONENT ID BASE NUMBER, SUCH AS 5741.                                                                                                                                                                    |
| 2                                                      | (2) | X'45C'     | 0   | E1CCR1C    | "1116" ('45C'X) THE DATA ARE PROGRAM STATUS FLAGS.                                                                                                                                                                                         |
| 2                                                      | (2) | X'45E'     | 0   | E1HLH1C    | "1118" ('45E'X) COPY OF PSAHLHI-HIGHEST LOCK HELD INDICATOR.                                                                                                                                                                               |
| 2                                                      | (2) | X'460'     | 0   | E1SUP1C    | "1120" ('460'X) COPY OF PSASUPER (SUPERVISOR CONTROL WORD).                                                                                                                                                                                |
| 2                                                      | (2) | X'464'     | 0   | E1SPN1C    | "1124" ('464'X) COPY OF LCCASPIN (PROCESSOR IS SPINNING INDICATORS).                                                                                                                                                                       |
| 2                                                      | (2) | X'466'     | 0   | E1FI1C     | "1126" ('466'X) THE DATA ARE THE 12 BYTES OF THE INSTRUCTION STREAM AS DETERMINED BY THE ADDRESS IN THE FAILING PSW.                                                                                                                       |
| 2                                                      | (2) | X'468'     | 0   | E1FRR1C    | "1128" ('468'X) THE DATA IS A COPY OF THE FRR PARAMETER AREA FROM THE CURRENT FRR STACK ENTRY.                                                                                                                                             |
| 2                                                      | (2) | X'46A'     | 0   | E1ASID1C   | "1130" ('46A'X) THE DATA IS THE ASID OF THE FAILING TASK OR A RELATED ASID.                                                                                                                                                                |
| 2                                                      | (2) | X'46C'     | 0   | E1ORCC1C   | "1132" ('46C'X) THE DATA IS THE ORIGINAL COMPLETION CODE.                                                                                                                                                                                  |
| 2                                                      | (2) | X'46E'     | 0   | E1ORRC1C   | "1134" ('46E'X) THE DATA IS THE ORIGINAL REASON CODE.                                                                                                                                                                                      |
| 2                                                      | (2) | X'470'     | 0   | E1PIDS1C   | "1136" ('470'X) THE DATA IS THE PRODUCT/COMPONENT ID.                                                                                                                                                                                      |



| Offsets                                                                                                                           |     |            |     |            |                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------|-----|------------|-----|------------|-------------------------------------------------------------------------------------------|
| Dec                                                                                                                               | Hex | Type/Value | Len | Name (Dim) | Description                                                                               |
| Comment                                                                                                                           |     |            |     |            |                                                                                           |
| HEXADECIMAL KEYS FOR SECOND EXTENSION OF SDWA = SDWARC2                                                                           |     |            |     |            |                                                                                           |
| End of Comment                                                                                                                    |     |            |     |            |                                                                                           |
| 2                                                                                                                                 | (2) | X'4B3'     | 0   | E2MCIC     | "1203" ('4B3'X) THE DATA IS THE MACHINE CHECK INTERRUPT CODE.                             |
| Comment                                                                                                                           |     |            |     |            |                                                                                           |
| HEXADECIMAL KEYS FOR SYSMDUMP SYSTEMS ARE THE SAME AS FOR THE SAME SYMPTOMS FROM THE SDWA<br>HEXADECIMAL KEYS FOR RETAIN SYMPTOMS |     |            |     |            |                                                                                           |
| End of Comment                                                                                                                    |     |            |     |            |                                                                                           |
| 2                                                                                                                                 | (2) | X'0'       | 0   | RINVLD     | "0" ('0'X) INVALID SYMPTOM.                                                               |
| 2                                                                                                                                 | (2) | X'1'       | 0   | RABNDSR    | "1" ('01'X) THE DATA IS THE SYSTEM ABEND CODE.                                            |
| 2                                                                                                                                 | (2) | X'2'       | 0   | RABNDUR    | "2" ('02'X) THE DATA IS THE USER ABEND CODE.                                              |
| 2                                                                                                                                 | (2) | X'3'       | 0   | RFLDSR     | "3" ('03'X) THE DATA IS A FIELD NAME OR LABEL.                                            |
| 2                                                                                                                                 | (2) | X'4'       | 0   | RLVLSR     | "4" ('04'X) THE DATA IS THE COMPONENT, SU, PP, RELEASE LEVEL.                             |
| 2                                                                                                                                 | (2) | X'5'       | 0   | RMSGIDR    | "5" ('05'X) MESSAGE IDENTIFIER.                                                           |
| 2                                                                                                                                 | (2) | X'6'       | 0   | RADRSR     | "6" ('06'X) ADDRESS OR OFFSET.                                                            |
| 2                                                                                                                                 | (2) | X'7'       | 0   | RPCSSR     | "7" ('07'X) THE DATA IS JCL, AN OPERATOR COMMAND A USER COMMAND, OR A PARAMETER (EBCDIC). |
| 2                                                                                                                                 | (2) | X'8'       | 0   | RPIDSR     | "8" ('08'X) THE DATA IS A COMPONENT IDENTIFIER AS 5752SC124 OR 575200000.                 |
| 2                                                                                                                                 | (2) | X'9'       | 0   | RPRCSR     | "9" ('09'X) THE DATA IS THE RETURN OR REASON CODE.                                        |
| 2                                                                                                                                 | (2) | X'A'       | 0   | RPTFSRR    | "10" ('0A'X) THE DATA IS A PTF IDENTIFIER.                                                |
| 2                                                                                                                                 | (2) | X'B'       | 0   | RPZFSR     | "11" ('0B'X) THE DATA IS A SUPERZAP IDENTIFIER.                                           |
| 2                                                                                                                                 | (2) | X'C'       | 0   | RREGSR     | "12" ('0C'X) THE DATA ARE THE CONTENTS OF THE FAILING REGISTERS.                          |
| 2                                                                                                                                 | (2) | X'D'       | 0   | RRIDSR     | "13" ('0D'X) MODULE, CSECT, ROUTINE NAME, ACCESS METHOD, ETC.                             |
| 2                                                                                                                                 | (2) | X'E'       | 0   | RSTATR     | "14" ('0E'X) CSW, DSW STATUS.                                                             |
| 2                                                                                                                                 | (2) | X'F'       | 0   | RVALUHR    | "15" ('0F'X) THE DATA IS HEXADECIMAL IN THE SOURCE FIELD.                                 |
| 2                                                                                                                                 | (2) | X'10'      | 0   | RVALUCR    | "16" ('10'X) THE DATA IS CHARACTER IN THE SOURCE FIELD.                                   |
| 2                                                                                                                                 | (2) | X'11'      | 0   | RVALUBR    | "17" ('11'X) THE DATA IS A FLAG FIELD IN THE SOURCE FIELD.                                |

VRAMAP Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| EFABS    | 2          | 3E9       | E1ORRC1C | 2          | 46E       |
| EFABU    | 2          | 3EA       | E1PIDS1C | 2          | 470       |
| EFCSCCT  | 2          | 3EC       | E1RRL1C  | 2          | 456       |
| EFLDMD   | 2          | 3EB       | E1SPN1C  | 2          | 464       |
| EFPSW    | 2          | 3F3       | E1SUB1C  | 2          | 44E       |
| EFREXN   | 2          | 3ED       | E1SUP1C  | 2          | 460       |
| E1AMD1C  | 2          | 451       | E1VRS1C  | 2          | 452       |
| E1ASID1C | 2          | 46A       | E2MCIC   | 2          | 4B3       |
| E1CCR1C  | 2          | 45C       | RABNDSR  | 2          | 1         |
| E1CDB1C  | 2          | 45A       | RABNDUR  | 2          | 2         |
| E1CID1C  | 2          | 44D       | RADRSR   | 2          | 6         |
| E1C1D1C  | 2          | 44D       | RFLDSR   | 2          | 3         |
| E1FI1C   | 2          | 466       | RINVLD   | 2          | 0         |
| E1FRR1C  | 2          | 468       | RLVLSR   | 2          | 4         |
| E1HLH1C  | 2          | 45E       | RMSGIDR  | 2          | 5         |
| E1HRC1C  | 2          | 454       | RPCSSR   | 2          | 7         |
| E1ORCC1C | 2          | 46C       | RPIDSR   | 2          | 8         |

## VRAMAP Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| RPRCSR   | 2          | 9         | VRAMAP   | 0          |           |
| RPTFSRR  | 2          | A         | VRAMID   | 2          | 33        |
| RPZFSR   | 2          | B         | VRAMINSC | 2          | 52        |
| RREGSR   | 2          | C         | VRAMINSL | 2          | 54        |
| RRIDSR   | 2          | D         | VRAMO    | 2          | 7A        |
| RSTATR   | 2          | E         | VRAMSG   | 2          | 34        |
| RVALUBR  | 2          | 11        | VRANODAE | 2          | 69        |
| RVALUCR  | 2          | 10        | VRAOA    | 2          | 40        |
| RVALUHR  | 2          | F         | VRAOPT   | 2          | 51        |
| VRAAID   | 2          | 3A        | VRAOR15  | 2          | 45        |
| VRACA    | 2          | 3C        | VRAPA    | 2          | 24        |
| VRACAN   | 2          | 3D        | VRAPID   | 2          | 7E        |
| VRACB    | 2          | 12        | VRAPL    | 2          | 21        |
| VRACBA   | 2          | 14        | VRAPLI   | 2          | 20        |
| VRACBF   | 2          | 13        | VRAPSW   | 2          | 41        |
| VRACBI   | 2          | 18        | VRAPTF   | 2          | 5         |
| VRACBIA  | 2          | 19        | VRAP2    | 2          | 25        |
| VRACBI2  | 2          | 1A        | VRAQERR  | 2          | 8         |
| VRACBL   | 2          | 16        | VRAQVOD  | 2          | 7         |
| VRACBM   | 2          | 11        | VRARC    | 2          | 6         |
| VRACBO   | 2          | 15        | VRAREGA  | 2          | 44        |
| VRACCW   | 2          | 4B        | VRAREGS  | 2          | 43        |
| VRACMD   | 2          | 67        | VRAREQ   | 2          | 50        |
| VRACOM   | 2          | 1         | VRARRK   | 2          | C8        |
| VRACSCB  | 2          | 63        | VRARRK1  | 2          | C9        |
| VRACSCBA | 2          | 64        | VRARRK10 | 2          | D2        |
| VRACSW   | 2          | 4C        | VRARRK11 | 2          | D3        |
| VRACTF   | 2          | 78        | VRARRK12 | 2          | D4        |
| VRADAE   | 2          | 53        | VRARRK13 | 2          | D5        |
| VRADAT   | 2          |           | VRARRK14 | 2          | D6        |
| VRADEV   | 2          | 47        | VRARRK15 | 2          | D7        |
| VRADSN   | 2          | 46        | VRARRK16 | 2          | D8        |
| VRADT    | 2          | 4         | VRARRK17 | 2          | D9        |
| VRADVT   | 2          | 4D        | VRARRK18 | 2          | DA        |
| VRAEBC   | 2          | 39        | VRARRK19 | 2          | DB        |
| VRAEHX   | 2          | 36        | VRARRK2  | 2          | CA        |
| VRAEND   | 2          | FF        | VRARRK20 | 2          | DC        |
| VRAEPN   | 2          | 73        | VRARRK21 | 2          | DD        |
| VRAERR   | 2          | 35        | VRARRK22 | 2          | DE        |
| VRAETF   | 2          | 77        | VRARRK23 | 2          | DF        |
| VRAFID   | 2          | 7D        | VRARRK24 | 2          | E0        |
| VRAFP    | 2          | 23        | VRARRK25 | 2          | E1        |
| VRAFFPI  | 2          | 22        | VRARRK26 | 2          | E2        |
| VRAFREG  | 2          | 60        | VRARRK27 | 2          | E3        |
| VRAHEX   | 2          | 38        | VRARRK28 | 2          | E4        |
| VRAHID   | 2          | 37        | VRARRK29 | 2          | E5        |
| VRAIAL   | 2          | A1        | VRARRK3  | 2          | CB        |
| VRAIAP   | 2          | A0        | VRARRK30 | 2          | E6        |
| VRAICL   | 2          | A2        | VRARRK31 | 2          | E7        |
| VRAIDP   | 2          | A3        | VRARRK32 | 2          | E8        |
| VRAILO   | 2          | 7B        | VRARRK33 | 2          | E9        |
| VRAIMO   | 2          | 7C        | VRARRK34 | 2          | EA        |
| VRAINS   | 2          | 42        | VRARRK35 | 2          | EB        |
| VRAJCL   | 2          | 68        | VRARRK36 | 2          | EC        |
| VRAJOB   | 2          | 65        | VRARRK37 | 2          | ED        |
| VRAKEY   | 0          |           | VRARRK38 | 2          | EE        |
| VRAKL    | 0          |           | VRARRK39 | 2          | EF        |
| VRALBL   | 2          | 30        | VRARRK4  | 2          | CC        |
| VRALEN   | 1          |           | VRARRK5  | 2          | CD        |
| VRALENKL | 2          | 2         | VRARRK6  | 2          | CE        |
| VRALK    | 2          | 26        | VRARRK7  | 2          | CF        |
| VRALKWA  | 2          | A4        | VRARRK8  | 2          | D0        |
| VRALTF   | 2          | 79        | VRARRK9  | 2          | D1        |
| VRALVL   | 2          | 3         | VRARRL   | 2          | 31        |
| VRALVLS  | 2          | 9         | VRARRP   | 2          | 10        |

| <b>Name</b> | <b>Hex<br/>Offset</b> | <b>Hex<br/>Value</b> |
|-------------|-----------------------|----------------------|
| VRASC       | 2                     | 2                    |
| VRASKP      | 2                     | FA                   |
| VRASN       | 2                     | 48                   |
| VRAST       | 2                     | 49                   |
| VRASTP      | 2                     | 66                   |
| VRATCB      | 2                     | 3B                   |
| VRAU        | 2                     | 4A                   |
| VRAVOL      | 2                     | 4E                   |
| VRAWA       | 2                     | 28                   |
| VRAWAI      | 2                     | 27                   |
| VRAWAP      | 2                     | 29                   |

## VRAMAP Cross Reference

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## VSL Programming Interface information

Programming Interface information

### VSL

The following field is **NOT** programming interface information:

- VSLRAO

End of Programming Interface information

## VSL Heading Information

**Common Name:** Virtual Subarea List Entry  
**Macro ID:** IHAVSL  
**DSECT Name:** VSL  
**Owning Component:** Real Storage Manager (SC1CR)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Virtual Storage: Yes  
                           Subpool: USER SPECIFIED.  
                           Key: USER SPECIFIED.  
                           Residency: Below 16 megabytes virtual  
**Size:** 8 bytes  
**Created by:** Caller  
**Pointed to by:** USER SPECIFIED.  
**Serialization:** USER SPECIFIED.  
**Function:** Describes a paging service to be performed on a range of virtual pages.

## VSL Map

| Offsets |     |            |     |              |                                                                                                                                                   |
|---------|-----|------------|-----|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim)   | Description                                                                                                                                       |
| 0       | (0) | STRUCTURE  | 0   | VSL          | , VSLPTR                                                                                                                                          |
| 0       | (0) | ADDRESS    | 4   | VSLSTRT (0)  | - FULL WORD REFERENCE TO VSLSTRTA                                                                                                                 |
| 0       | (0) | BITSTRING  | 1   | VSLFLAG1     | - FIRST FLAG FIELD                                                                                                                                |
|         |     | 1... ....  |     | VSLCONT      | "BIT0" - CONTINUATION FLAG. IF ON, VSLSTRTA POINTS TO THE NEXT VSL ENTRY. OTHERWISE, THIS IS A NORMAL VSL.                                        |
|         |     | .1.. ....  |     | VSLFIX       | "BIT1" - PGFIX OPTION FLAG                                                                                                                        |
|         |     | ..1. ....  |     | VSLFREE      | "BIT2" - PGFREE OPTION FLAG                                                                                                                       |
|         |     | ...1 ....  |     | VSLOAD       | "BIT3" - PGLOAD OPTION FLAG                                                                                                                       |
|         |     | .... 1...  |     | VSLRLS       | "BIT4" - PGRLSE OPTION FLAG                                                                                                                       |
|         |     | .... .1..  |     | VSLANYW      | "BIT5" - PAGE-ANYWHERE OPTION FLAG                                                                                                                |
|         |     | .... ..1.  |     | VSLONG       | "BIT6" - LONG-TERM FIX OPTION FLAG FOR PGFIX                                                                                                      |
|         |     | .... ...1  |     | VLSRSV2      | "BIT7" - RESERVED                                                                                                                                 |
| 1       | (1) | ADDRESS    | 3   | VSLSTRTA     | - START ADDRESS OF THE VIRTUAL SUBAREA TO BE PROCESSED                                                                                            |
| 4       | (4) | ADDRESS    | 4   | VSLEND (0)   | - FULL WORD REFERENCE FOR VSLEND                                                                                                                  |
| 4       | (4) | BITSTRING  | 1   | VSLFLAG2     | - SECOND FLAG FIELD                                                                                                                               |
|         |     | 1... ....  |     | VSLAST       | "BIT0" - LAST ENTRY IN LIST OF REQUESTS FLAG                                                                                                      |
|         |     | .1.. ....  |     | VSLNULL      | "BIT1" - NULL ENTRY FLAG. IF ON, INDICATES THAT THE ENTRY IS TO BE IGNORED.                                                                       |
|         |     | ..1. ....  |     | VSLRAO       | "BIT2" - REAL ADDRESS OPTION FLAG. IF ON, THE REAL STORAGE ADDRESS ASSIGNED TO THE VIRTUAL AREA WILL BE STORED IN VSLEND. NOT SUPPORTED IN VS2/2. |
|         |     | ...1 ....  |     | VSLERR       | "BIT3" - RESERVED FOR MVS/370                                                                                                                     |
|         |     | .... 1...  |     | VLSRSV3      | "BIT4" - RESERVED                                                                                                                                 |
|         |     | .... .1..  |     | VSLPGOUT     | "BIT5" - PERFORM A PAGE-OUT OPERATION                                                                                                             |
|         |     | .... ..1.  |     | VSLKEPRL     | "BIT6" - KEEP REAL FRAME AFTER PAGE-OUT                                                                                                           |
|         |     | .... ...1  |     | VSLXTRS      | "BIT7" - RESERVED FOR EXPANSION                                                                                                                   |
| 5       | (5) | ADDRESS    | 3   | VSLEND1A     | - END ADDRESS PLUS 1 OF THE VIRTUAL SUBAREA DESCRIBED BY THIS ENTRY.                                                                              |
| 8       | (8) | CHARACTER  | 1   | VSLENDPT (0) | - END OF VIRTUAL SUBAREA LIST ENTRY                                                                                                               |
| 8       | (8) | X'8'       | 0   | VSLLEN       | "VSLENDPT-VSL" - LENGTH OF VSL ENTRY                                                                                                              |

## VSL Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| VSL      | 0             |              |
| VSLANYW  | 0             | 4            |
| VSLAST   | 4             | 80           |
| VSLCONT  | 0             | 80           |
| VSLEND   | 4             |              |
| VSLENDPT | 8             |              |
| VSLEND1A | 5             |              |
| VSLERR   | 4             | 10           |
| VSLEXTRS | 4             | 1            |
| VSLFIX   | 0             | 40           |
| VSLFLAG1 | 0             |              |
| VSLFLAG2 | 4             |              |
| VSLFREE  | 0             | 20           |
| VSLKEPRL | 4             | 2            |
| VSLLEN   | 8             | 8            |
| VSLNULL  | 4             | 40           |
| VSLOAD   | 0             | 10           |
| VSLONG   | 0             | 2            |
| VSLPGOUT | 4             | 4            |
| VSLRAO   | 4             | 20           |
| VSLRLS   | 0             | 8            |
| VSLRSV2  | 0             | 1            |
| VSLRSV3  | 4             | 8            |
| VSLSTRT  | 0             |              |
| VSLSTRTA | 1             |              |





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# VSMD Programming Interface Information

Programming Interface Information

VSMD

End of Programming Interface Information

## VSMD Heading Information

**Common Name:** VSM Descriptors  
**Macro ID:** IGVVSMD  
**DSECT Name:** VSMD  
**Owning Component:** Virtual Storage Manager (SC1CH)  
**Serialization:** None  
**Function:** Describes information provided by VSMLIST service.

### VSMD Map

| Offsets |     |            |     |             |                                       |
|---------|-----|------------|-----|-------------|---------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim)  | Description                           |
| 0       | (0) | STRUCTURE  | 0   | VSMD        |                                       |
| 0       | (0) | SIGNED     | 4   | VSMDSP (0)  | SUBPOOL DESCRIPTOR                    |
| 0       | (0) | ADDRESS    | 1   | VSMDFRMT    | INDICATES FORMAT OF DESC.             |
| 1       | (1) | ADDRESS    | 1   | VSMLEN      | LENGTH OF THE DESCRIPTOR              |
| 2       | (2) | ADDRESS    | 1   | VSMID       | SUBPOOL ID                            |
| 3       | (3) | ADDRESS    | 1   | VSMKEY      | STORAGE KEY (BITS 0 - 3)              |
| 3       | (3) | BITSTRING  | 1   | VSMFLGS     | MISCELLANEOUS FLAGS                   |
|         |     | .... 1...  |     | VSMDOWN     | "X'08" IF ONE, THE SUBPOOL IS OWNED   |
|         |     | .... .1..  |     | VSMDSHR     | "X'04" IF ONE, THE SUBPOOL IS SHARED  |
|         |     | .... ..1.  |     | VSMINV      | "X'02" IF ONE, THE SUBPOOL IS INVALID |
| 4       | (4) | ADDRESS    | 4   | VSMTCBP     | ADDRESS OF OWNING TCB OR ZERO         |
| 0       | (0) | SIGNED     | 4   | VSMDBLK (0) | BLOCK DESCRIPTOR                      |
| 0       | (0) | ADDRESS    | 4   | VSMAREA     | ADDRESS OF BLOCK                      |
| 4       | (4) | ADDRESS    | 4   | VSMDSIZE    | SIZE OF THE BLOCK                     |
| 0       | (0) | ADDRESS    | 4   | VSMTCB      | ADDRESS OF OWNING TCB                 |
| 0       | (0) | ADDRESS    | 4   | VSMDCNT     | NUMBER OF DESCRIPTORS THAT FOLLOW     |

### VSMD Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| VSMD     | 0          |           |
| VSMAREA  | 0          |           |
| VSMDBLK  | 0          |           |
| VSMDCNT  | 0          |           |
| VSMFLGS  | 3          |           |
| VSMFRMT  | 0          |           |
| VSMID    | 2          |           |
| VSMINV   | 3          | 2         |
| VSMKEY   | 3          |           |
| VSMLEN   | 1          |           |
| VSMDOWN  | 3          | 8         |
| VSMDSHR  | 3          | 4         |
| VSMDSIZE | 4          |           |
| VSMDSP   | 0          |           |
| VSMTCB   | 0          |           |
| VSMTCBP  | 4          |           |

## VSSA Heading Information

**Common Name:** Vector Status Save Area  
**Macro ID:** IHAVSSA  
**DSECT Name:** VSSA  
**Owning Component:** Supervisor Control (SC1C5)  
**Size:** 320 bytes  
**Pointed to by:** STCBVSSA  
**Function:** Provide data mapping for the VSSA.

### VSSA Map

| Offsets |       |            |     |              |                                                                                                                             |
|---------|-------|------------|-----|--------------|-----------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim)   | Description                                                                                                                 |
| 0       | (0)   | STRUCTURE  | *   | VSSA         |                                                                                                                             |
| 0       | (0)   | CHARACTER  | 320 | VSSAFSZB     | Beginning of static portion of VSSA                                                                                         |
| 0       | (0)   | CHARACTER  | 4   | VSSAVSSA     | VSSA Acronym in EBCDIC                                                                                                      |
| 4       | (4)   | ADDRESS    | 4   | VSSARPTR     | Pointer to VSSAVREG                                                                                                         |
| 8       | (8)   | BITSTRING  | 8   | VSSAEVST     | Vector Activity Count at dispatch                                                                                           |
| 16      | (10)  | BITSTRING  | 8   | VSSAVNUT     | Cumulative time task has not used the VF                                                                                    |
| 24      | (18)  | BITSTRING  | 8   | VSSAVAC      | Vector Activity Count at preemption                                                                                         |
| 32      | (20)  | CHARACTER  | 20  | VSSAR020     | RESERVED                                                                                                                    |
| 52      | (34)  | UNSIGNED   | 2   | VSSASCSZ     | Vector Section Size                                                                                                         |
| 54      | (36)  | UNSIGNED   | 2   | VSSAPSUM     | Vector Partial Sum                                                                                                          |
| 56      | (38)  | BITSTRING  | 8   | VSSAVSR      | Vector Status Reg savearea                                                                                                  |
| 56      | (38)  | BITSTRING  | 1   | VSSAVRV1     | Vector Status Reg byte reserved by architecture                                                                             |
| 57      | (39)  | BITSTRING  | 1   | VSSAVSRF     | Vector Status Reg flags                                                                                                     |
|         |       | 1111 111.  |     | *            | Vector Status Reg bits reserved by architecture                                                                             |
|         |       | .... ...1  |     | VSSAMSKM     | Vector Mask Mode indicator                                                                                                  |
| 58      | (3A)  | BITSTRING  | 2   | VSSAVCT      | Vector Count                                                                                                                |
| 60      | (3C)  | BITSTRING  | 2   | VSSAVIX      | Vector Interruption Index                                                                                                   |
| 62      | (3E)  | BITSTRING  | 1   | VSSAVIU      | Vector In-use bits                                                                                                          |
| 63      | (3F)  | BITSTRING  | 1   | VSSAVCH      | Vector Change bits                                                                                                          |
| 64      | (40)  | CHARACTER  | 256 | VSSAVMR      | Vector Mask Reg savearea                                                                                                    |
| 320     | (140) | CHARACTER  | 0   | VSSAFSZE     | End of static portion of VSSA                                                                                               |
| 320     | (140) | CHARACTER  | 4   | VSSAVREG (*) | Variable length savearea for Vector Regs. This savearea must begin on a boundary which is 8 times the Section Size (CVTVSS) |

### VSSA Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| VSSA     | 0          |           | VSSAVSRF | 39         |           |
| VSSAEVST | 8          |           | VSSAVSSA | 0          |           |
| VSSAFSZB | 0          |           |          |            |           |
| VSSAFSZE | 140        |           |          |            |           |
| VSSAMSKM | 39         | 01        |          |            |           |
| VSSAPSUM | 36         |           |          |            |           |
| VSSARPTR | 4          |           |          |            |           |
| VSSAR020 | 20         |           |          |            |           |
| VSSASCSZ | 34         |           |          |            |           |
| VSSAVAC  | 18         |           |          |            |           |
| VSSAVCH  | 3F         |           |          |            |           |
| VSSAVCT  | 3A         |           |          |            |           |
| VSSAVIU  | 3E         |           |          |            |           |
| VSSAVIX  | 3C         |           |          |            |           |
| VSSAVMR  | 40         |           |          |            |           |
| VSSAVNUT | 10         |           |          |            |           |
| VSSAVREG | 140        |           |          |            |           |
| VSSAVRV1 | 38         |           |          |            |           |
| VSSAVSR  | 38         |           |          |            |           |



## VTSPH Heading Information

**Common Name:** Subsystem Vector Table Service Parameter List  
**Macro ID:** IEFVTSPH  
**DSECT Name:** VTSPH  
**Owning Component:** Subsystem Interface (SC1B6)  
**Eye-Catcher ID:** VTSPH  
 Offset: 0  
 Length: 4  
**Storage Attributes:** Subpool: ANY  
 Key: Caller's Key  
**Size:** 52 bytes  
**Created by:** Caller of IEFJSVEC  
**Pointed to by:** Caller sets up register 1 pointing to a word which points to IEFVTSPH.  
**Serialization:** None  
**Function:** Maps the input to subsystem vector table service routine IEFJSVEC. IEFJSVEC has been superseded for external use by the IEFSSVT macro.

### VTSPH Map

| Offsets |      |            |     |            |                                                              |
|---------|------|------------|-----|------------|--------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                  |
| 0       | (0)  | STRUCTURE  | 0   | VTSPH      |                                                              |
| 0       | (0)  | CHARACTER  | 4   | VTSID      | IDENTIFIER 'VTSP'                                            |
| 4       | (4)  | SIGNED     | 2   | VTSLN      | LENGTH OF PARAMETER LIST                                     |
| 6       | (6)  | BITSTRING  | 1   | VTsver     | VERSION OF PARAMETER LIST                                    |
| 7       | (7)  | BITSTRING  | 1   | VTSCONID   | CONSOLE ID                                                   |
| 8       | (8)  | BITSTRING  | 1   | VTsFLGS    | FLAGS                                                        |
|         |      | 1... ....  |     | VTSGLOAD   | "X'80" LOAD TO GLOBAL INDICATOR                              |
| 9       | (9)  | BITSTRING  | 1   | VTsREQ     | REQUEST FLAGS                                                |
|         |      | 1... ....  |     | VTsCREAT   | "X'80" CREATE NEW SSVT                                       |
|         |      | .1.. ....  |     | VTsFCDIS   | "X'40" DISABLE SELECTED FUNCTION CODES OF EXISTING SSVT      |
|         |      | ..1. ....  |     | VTsFCEN    | "X'20" ENABLE SELECTED FUNCTION CODES OF EXISTING SSVT       |
| 10      | (A)  | CHARACTER  | 2   | VTsRSV1    | RESERVED                                                     |
| 12      | (C)  | CHARACTER  | 4   | VTsNME     | SUBSYSTEM NAME                                               |
| 16      | (10) | SIGNED     | 4   | VTsSVTD    | ADDRESS OF SSVT TABLE DATA                                   |
| 20      | (14) | SIGNED     | 4   | VTsSVTAD   | ADDRESS OF SSVT (RETURNED)                                   |
| 24      | (18) | SIGNED     | 4   | VTsSSCVT   | ADDRESS OF SSCVT (RETURNED)                                  |
| 28      | (1C) | CHARACTER  | 8   | VTsFUNCT   | FUNCTION ROUTINE NAME BEING PROCESSED WHEN AN ERROR OCCURRED |
| 36      | (24) | SIGNED     | 4   | VTsCNSID   | 4 Byte Console ID                                            |
| 40      | (28) | CHARACTER  | 8   | VTsCART    | Command And Response Token                                   |
| 48      | (30) | CHARACTER  | 4   | VTsRSV2    | Reserved                                                     |
| 48      | (30) | X'34'      | 0   | VTsSIZE    | "*-VTSPH" LENGTH OF PARAMETER LIST                           |
| 48      | (30) | X'E3E2D7'  | 0   | VTsCID     | "C'VTSPH" Identifier                                         |
| 48      | (30) | X'2'       | 0   | VTsCVER    | "2" Current version number                                   |

## VTSPPL Cross Reference

### VTSPPL Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| VTSCART  | 28            |              |
| VTSCID   | 30            | E3E2D7       |
| VTSCNSID | 24            |              |
| VTSCONID | 7             |              |
| VTSCREAT | 9             | 80           |
| VTSCVER  | 30            | 2            |
| VTSFCDIS | 9             | 40           |
| VTFCEN   | 9             | 20           |
| VTNFLGS  | 8             |              |
| VTSFUNCT | 1C            |              |
| VTSGLOAD | 8             | 80           |
| VTSID    | 0             |              |
| VTSLN    | 4             |              |
| VTSNME   | C             |              |
| VTSPPL   | 0             |              |
| VTREQ    | 9             |              |
| VTRSV1   | A             |              |
| VTRSV2   | 30            |              |
| VTSSIZE  | 30            | 34           |
| VTSSCVT  | 18            |              |
| VTSSVTAD | 14            |              |
| VTSSVTD  | 10            |              |
| VTSSVER  | 6             |              |

## VUNT Heading Information

**Common Name:** VOLUNIT Table Entry  
**Macro ID:** IEFZB423  
**DSECT Name:** VOLUNTAB  
**Owning Component:** Allocation (SC1B4)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: 230  
 Key: Key 1  
 Residency: Above  
**Size:** 40 Bytes  
**Created by:** IEFAB423  
**Pointed to by:** DDWAVUAD (contained within IEFZDDWA)  
**Serialization:** None  
**Function:** Defines volume/unit requirements of requests for Common Allocation.

## VUNT Map

| Offsets |     |           |     |            |                                                     |
|---------|-----|-----------|-----|------------|-----------------------------------------------------|
| Dec     | Hex | Type      | Len | Name (Dim) | Description                                         |
| 0       | (0) | STRUCTURE | 40  | VOLUNTAB   | FORMAT OF VOLUNIT ENTRY                             |
| 0       | (0) | CHARACTER | 6   | VOLID      | VOLUME SERIAL NUMBER                                |
| 6       | (6) | CHARACTER | 4   | VOLSTAT    | STATUS BYTES                                        |
| 6       | (6) | BITSTRING | 1   | VOLSTATA   | REQUEST INDICATORS                                  |
|         |     | 1... .... |     | VOLPUB     | REQUEST NEEDS PUBLIC VOLUME                         |
|         |     | .1.. .... |     | VOLPRV     | REQUEST NEEDS PRIVATE VOLUME                        |
|         |     | .1. ....  |     | VOLSPEC    | REQUEST IS FOR SPECIFIC VOL                         |
|         |     | ...1 .... |     | VOLSTG     | REQUEST NEEDS STORAGE VOLUME                        |
|         |     | .... 1..  |     | VOLNSHR    | VOLUME MUST BE NON-SHAREABLE                        |
|         |     | .... .1.  |     | VOLRESVE   | VOLUM RESERVE WORK BIT                              |
|         |     | .... .1.  |     | VUDADSM    | REQUIRES DADSM                                      |
|         |     | .... ...1 |     | VOLDEFER   | DEFER MOUNT REQUEST                                 |
| 7       | (7) | BITSTRING | 1   | VOLSTATB   | REQUEST STATUS                                      |
|         |     | 1... .... |     | VOLALOC    | ENTRY HAS BEEN ALLOCATED                            |
|         |     | .1.. .... |     | VOLMNTD    | VOL MUST BE MOUNTED BY END OF ALLOCATION            |
|         |     | .1. ....  |     | VDEVREQD   | ETIOT DEVICE ENTRY REQUIRED                         |
|         |     | ...1 .... |     | VUPROCED   | WORK BIT-AFFINITY PROCESSED                         |
|         |     | .... 1..  |     | VUDNALOC   | RECOVERY NECESSARY FOR THIS ENTRY                   |
|         |     | .... .1.  |     | VUDADSME   | RECOVERABLE DADSM ERROR HAS OCCURRED                |
|         |     | .... .1.  |     | VUVINELG   | VOLUME IS MOUNTED ON INELIGIBLE OR UNLOCKED UNIT    |
|         |     | .... ...1 |     | VUAFFWRK   | VOLUME AFFINITY WORK BIT                            |
| 8       | (8) | BITSTRING | 1   | VOLSTATC   | DEVICE CLASS                                        |
|         |     | 1... .... |     | VOLTAREQ   | TAPE REQUEST                                        |
|         |     | .1.. .... |     | VOLCOREQ   | COMM. REQUEST                                       |
|         |     | .1. ....  |     | VOLDAREQ   | DIRECT ACCESS REQUEST                               |
|         |     | ...1 .... |     | VOLGRREQ   | GRAPHICS REQUEST                                    |
|         |     | .... 1..  |     | VOLURREQ   | UNIT RECORD REQUEST                                 |
|         |     | .... .1.  |     | VURECVRY   | RECOVERY ATTEMPTED                                  |
|         |     | .... .1.  |     | VUNOSPTP   | CLEAR JFCBVOLS WHEN BACKING OUT ALLOC               |
|         |     | .... ...1 |     | VUWTPBST   | WAIT UNTIL PROCESSING PUBLIC TO STORAGE REQUESTS    |
| 9       | (9) | BITSTRING | 1   | VOLSTATD   | REQUEST STATUS                                      |
|         |     | 1... .... |     | VUMUGDON   | MULTI-UNIT/GEN WORK BIT                             |
|         |     | .1.. .... |     | VUREALOC   | REARRANGE WORK BIT                                  |
|         |     | .1. ....  |     | VUDMNDOF   | Demand request device is offline or pending offline |
|         |     | ...1 .... |     | VUDMNDAL   | DEMAND REQ DEV IS ALLOC'D                           |
|         |     | .... 1..  |     | VUUNALSW   | MUST BACKOUT ALLOCATION                             |
|         |     | .... .1.  |     | VUDMUNIQ   | FIRST REQ FOR UNAVAILABLE DEMANDED UNIT             |
|         |     | .... .1.  |     | VUVLUNIQ   | FIRST REQ WITH VALIDITY CHECK FOR THIS VOLUME       |

## VUNT Cross Reference

| Offsets |      |           |     |            |                                                                                           |
|---------|------|-----------|-----|------------|-------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type      | Len | Name (Dim) | Description                                                                               |
|         |      | .... ...1 |     | VURCVYPR   | RECOVERY PROCESSING DONE                                                                  |
| 10      | (A)  | SIGNED    | 2   | VOLUNTID   | UNIT IDENTIFIER                                                                           |
| 12      | (C)  | ADDRESS   | 4   | VOLALGTP   | ADDR OF ALGORITHM ENTRY                                                                   |
| 16      | (10) | ADDRESS   | 4   | VOLSIOTP   | SIOT ADDRESS                                                                              |
| 20      | (14) | ADDRESS   | 4   | VUUCBP     | PTR TO UCB OR PTR TO UCB POOL IF SU18 IN SYSTEM.<br>Only valid for JES3 managed requests. |
| 24      | (18) | ADDRESS   | 4   | VUGRID     | PTR GROUP ID OR PTR TO THE GROUP ID LIST IF SU18 IS IN THE SYSTEM                         |

Comment

Deleted VOLSMSMM, VOLIGNOR, VOLOGRPP and VOLOGRPC.

End of Comment

|    |      |           |   |          |                                                                                                                                                                                                                                                                                                                             |
|----|------|-----------|---|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 28 | (1C) | ADDRESS   | 4 | VUPEND   | UCB address of a pending offline device. Prior to Recovery processing may contain the UCB address of a pending offline permres DASE or reserved volume required by a request. During and after Recovery, contains the UCB address of a pending offline device selected by the Installation Exit or operator for allocation. |
| 32 | (20) | BITSTRING | 1 | VOLSTATE | REQUEST STATUS                                                                                                                                                                                                                                                                                                              |
|    |      | 1... .... |   | VUALCOFL | Needs Allocated/Offline Processor                                                                                                                                                                                                                                                                                           |
|    |      | .1.. .... |   | VUDEVSEL | Device contained in VUPEND was selected by the exit or operator                                                                                                                                                                                                                                                             |
|    |      | ..11 1111 |   | *        | Reserved                                                                                                                                                                                                                                                                                                                    |
| 33 | (21) | CHARACTER | 3 | *        | Reserved                                                                                                                                                                                                                                                                                                                    |
| 36 | (24) | ADDRESS   | 4 | VUSSIDRA | Pointer to SSI DRA                                                                                                                                                                                                                                                                                                          |

### Offsets

| Dec | Hex | Type      | Len | Name (Dim) | Description        |
|-----|-----|-----------|-----|------------|--------------------|
| 0   | (0) | STRUCTURE | *   | VUPOOL     | UCB POOL           |
| 0   | (0) | SIGNED    | 4   | VUPOOL#    | # OF UCB'S IN POOL |
| 4   | (4) | ADDRESS   | 4   | VUCBS (*)  | UCB'S IN POOL      |

### Offsets

| Dec | Hex | Type      | Len | Name (Dim)   | Description        |
|-----|-----|-----------|-----|--------------|--------------------|
| 0   | (0) | STRUCTURE | *   | VUGRLST      | GROUP ID LIST      |
| 0   | (0) | CHARACTER | 8   | VUGRLENT (*) | GROUP LIST ENTRIES |
| 0   | (0) | SIGNED    | 4   | VUGRLIDS     | GROUP IDS          |
| 4   | (4) | SIGNED    | 4   | *            | RESERVED           |

## VUNT Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| VDEVREQD | 7          | 20        | VOLSTAT  | 6          |           |
| VOLALGTP | C          |           | VOLSTATA | 6          |           |
| VOLALOC  | 7          | 80        | VOLSTATB | 7          |           |
| VOLCOREQ | 8          | 40        | VOLSTATC | 8          |           |
| VOLDAREQ | 8          | 20        | VOLSTATD | 9          |           |
| VOLDEFER | 6          | 01        | VOLSTATE | 20         |           |
| VOLGRREQ | 8          | 10        | VOLSTG   | 6          | 10        |
| VOLID    | 0          |           | VOLTAREQ | 8          | 80        |
| VOLMNTD  | 7          | 40        | VOLUNTAB | 0          |           |
| VOLNSHR  | 6          | 08        | VOLUNTID | A          |           |
| VOLPRV   | 6          | 40        | VOLURREQ | 8          | 08        |
| VOLPUB   | 6          | 80        | VUAFFWRK | 7          | 01        |
| VOLRESVE | 6          | 04        | VUALCOFL | 20         | 80        |
| VOLSIOTP | 10         |           | VUCBS    | 4          |           |
| VOLSPEC  | 6          | 20        | VUDADSM  | 6          | 02        |



| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| VUDADSME | 7             | 04           |
| VUDEVSEL | 20            | 40           |
| VUDMNDAL | 9             | 10           |
| VUDMNDOF | 9             | 20           |
| VUDMUNIQ | 9             | 04           |
| VUDNALOC | 7             | 08           |
| VUGRID   | 18            |              |
| VUGRLENT | 0             |              |
| VUGRLIDS | 0             |              |
| VUGRLST  | 0             |              |
| VUMUGDON | 9             | 80           |
| VUNOSPTP | 8             | 02           |
| VUPEND   | 1C            |              |
| VUPOOL   | 0             |              |
| VUPOOL#  | 0             |              |
| VUPROCED | 7             | 10           |
| VURCVYPR | 9             | 01           |
| VUREALOC | 9             | 40           |
| VURECVRY | 8             | 04           |
| VUSSIDRA | 24            |              |
| VUUCBP   | 14            |              |
| VUUNALSW | 9             | 08           |
| VUVINELG | 7             | 02           |
| VUVLUNIQ | 9             | 02           |
| VUWTPBST | 8             | 01           |



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**WKAL Programming Interface Information**

Programming Interface Information

WKAL

End of Programming Interface Information

## WKAL Heading Information

**Common Name:** GTF Trace work area list  
**Macro ID:** AHLWKAL  
**DSECT Name:** WKAL, APARM  
**Owning Component:** GTFTRACE subcommand of IPCS (SC118)  
**Eye-Catcher ID:** None  
**Created by:** AHLFINIT, GTFTRACE initialization  
**Pointed to by:** GTFWALP field of FFAP  
**Function:** Map the GFT TRACE work area list

### WKAL Map

| Offsets |     |            |     |            |                             |
|---------|-----|------------|-----|------------|-----------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                 |
| 0       | (0) | STRUCTURE  | 0   | WKALHDR    | , Work area list            |
| 0       | (0) | BITSTRING  | 12  | WKAL (0)   |                             |
| 0       | (0) | ADDRESS    | 4   | WKALARP    | Work area pointer           |
| 4       | (4) | SIGNED     | 4   | WKALARL    | Work area length            |
| 8       | (8) | ADDRESS    | 4   | WKALAPM    | Appendage parameter pointer |

| Offsets |     |            |     |            |                       |
|---------|-----|------------|-----|------------|-----------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description           |
| 0       | (0) | STRUCTURE  | 0   | APARM      | , Appendage parameter |
| 0       | (0) | SIGNED     | 4   | APARMP (0) | Parameter prefix      |
| 0       | (0) | SIGNED     | 2   | APARML     | Length of text        |
| 2       | (2) | SIGNED     | 2   |            | Not used              |
| 4       | (4) | CHARACTER  | 1   | APARMT (0) | Text                  |

### WKAL Cross Reference

| Name    | Hex Offset | Hex Value |
|---------|------------|-----------|
| APARM   | 0          |           |
| APARML  | 0          |           |
| APARMP  | 0          |           |
| APARMT  | 4          |           |
| WKAL    | 0          |           |
| WKALAPM | 8          |           |
| WKALARL | 4          |           |
| WKALARP | 0          |           |
| WKALHDR | 0          |           |

## WMST Heading Information

**Common Name:** System Resource Manager Workload Manager Specification Table  
**Macro ID:** IRAWMST  
**DSECT Name:** WMST (unless DSECT=NO is coded)  
**Owning Component:** System Resource Manager (SC1CX)  
**Eye-Catcher ID:** WMST  
 Offset: 0  
 Length: CHAR(4)  
**Storage Attributes:** Subpool: 245  
 Key: 0  
 Residency: Above 16M line  
**Size:** 176 bytes  
**Created by:** IEAVNP10, IEEMB812, IRAMSBLD, IRAMSCHG  
**Pointed to by:** RMCTWMST field of the RMCT data area  
**Serialization:** SRM lock  
**Function:** Contains the information required by the various SRM routines which reference the current SRM performance controls (either IEAIPSxx or the active service policy)

### WMST Map

| Offsets |      |            |     |            |                                                                               |
|---------|------|------------|-----|------------|-------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                   |
| 0       | (0)  | STRUCTURE  | 192 | WMST       |                                                                               |
| 0       | (0)  | CHARACTER  | 4   | WMSTNAME   | TABLE IDENTIFICATION - 'WMST'                                                 |
| 4       | (4)  | CHARACTER  | 2   | WMSTID     | PERF SPECIFICATION ID                                                         |
| 6       | (6)  | SIGNED     | 2   | WMSTUPGN   | NUMBER OF UNIQUE VALID PGNS                                                   |
| 8       | (8)  | ADDRESS    | 4   | WMSTPGVT   | PERF GRP VECTOR TABLE ADDR Valid only in compat mode                          |
| 12      | (C)  | SIGNED     | 4   | WMSTPGVS   | PERF GRP VECTOR TABLE SIZE                                                    |
| 12      | (C)  | SIGNED     | 4   | WMSTSPTS   | SPTe length                                                                   |
| 16      | (10) | ADDRESS    | 4   | WMSTPGDT   | 1ST PERF GRP DESCRIPTOR ADDR Valid only in compat mode                        |
| 20      | (14) | SIGNED     | 4   | WMSTPGDS   | TOT PERF GRP DESCRIPTOR SIZE                                                  |
| 20      | (14) | SIGNED     | 4   | WMSTSCTS   | SCTE length                                                                   |
| 24      | (18) | ADDRESS    | 4   | WMSTDMDT   | FIRST DMN DESC ADDR                                                           |
| 28      | (1C) | SIGNED     | 4   | WMSTDMDS   | TOT DOMAIN DESC SIZE                                                          |
| 32      | (20) | ADDRESS    | 4   | WMSTDMVT   | DMN VECTOR TABLE ADDR Valid only in compat mode                               |
| 36      | (24) | SIGNED     | 4   | WMSTDMVS   | DMN VECTOR TABLE SIZE                                                         |
| 40      | (28) | ADDRESS    | 4   | WMSTTSPT   | TIME SLICE PTRN ADDR                                                          |
| 44      | (2C) | SIGNED     | 4   | WMSTTSPS   | TIME SLICE PTRN SIZE                                                          |
| 48      | (30) | ADDRESS    | 4   | WMSTTSGT   | TS GROUP TABLE ADDR                                                           |
| 52      | (34) | SIGNED     | 4   | WMSTTSGS   | TS GROUP TABLE SIZE                                                           |
| 56      | (38) | ADDRESS    | 4   | WMSTWMCT   | WMCT address                                                                  |
| 60      | (3C) | SIGNED     | 4   | WMSTSIC1   | Internal service classes                                                      |
| 60      | (3C) | UNSIGNED   | 2   | WMSTDUMP   | \$srmdump service class                                                       |
| 62      | (3E) | UNSIGNED   | 2   | WMSTBEST   | \$srmbest service class                                                       |
| 64      | (40) | SIGNED     | 4   | WMSTSIC2   | Internal service classes                                                      |
| 64      | (40) | UNSIGNED   | 2   | WMSTGOOD   | \$srmgood service class                                                       |
| 66      | (42) | UNSIGNED   | 2   | WMSTDISC   | \$srmdisc service class                                                       |
| 68      | (44) | SIGNED     | 4   | WMSTSIC3   | Internal service classes                                                      |
| 68      | (44) | UNSIGNED   | 2   | WMSTQSC    | \$srmqsc service class                                                        |
| 70      | (46) | UNSIGNED   | 2   | *          | reserved                                                                      |
| 72      | (48) | SIGNED     | 4   | WMSTWLML   | Length of contiguous structures. Valid for skeleton IPS and when in WLM mode. |
| 76      | (4C) | SIGNED     | 4   | WMSTSIWL   | WORK SET LOW LIMIT                                                            |
| 80      | (50) | SIGNED     | 4   | WMSTSIWH   | WORK SET HIGH LIMIT                                                           |
| 84      | (54) | CHARACTER  | 8   | WMSTIPM    | MSO SERVICE COEFFICIENT                                                       |
| 92      | (5C) | ADDRESS    | 4   | WMSTDMDE   | DMN TAB LAST NTRY ADR                                                         |

# WMST Map

| Offsets |      |            |     |            |                                                                                                                                                                                                                        |
|---------|------|------------|-----|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                            |
| 96      | (60) | SIGNED     | 2   | WMSTWLHI   | HIGHEST WORKLD LEV SP                                                                                                                                                                                                  |
| 96      | (60) | SIGNED     | 2   | WMSTSCLO   | Lowest valid static external service class index                                                                                                                                                                       |
| 98      | (62) | SIGNED     | 2   | WMSTPGHI   | HIGH PGN IN IPS & INSTALLATION CONTROL SPECIFICATION                                                                                                                                                                   |
| 98      | (62) | SIGNED     | 2   | WMSTSCHI   | Highest valid static external service class index                                                                                                                                                                      |
| 100     | (64) | SIGNED     | 2   | WMSTPGPC   | TOTAL PERIODS IN IPS & INSTALLATION CONTROL SPECIFICATION                                                                                                                                                              |
| 102     | (66) | SIGNED     | 2   | WMSTDMNC   | TOT DOMAIN COUNT                                                                                                                                                                                                       |
| 104     | (68) | UNSIGNED   | 2   | WMSTWLMG   | WLM service class index for SYSSTC                                                                                                                                                                                     |
| 106     | (6A) | UNSIGNED   | 2   | WMSTWLMB   | WLM service class index for SYSTEM                                                                                                                                                                                     |
| 108     | (6C) | SIGNED     | 4   | *          | Reserved                                                                                                                                                                                                               |
| 112     | (70) | BITSTRING  | 8   | WMSTTOC    | TIME OF NEWIPS SYSEVENT                                                                                                                                                                                                |
| 112     | (70) | SIGNED     | 2   | *          | RESERVED                                                                                                                                                                                                               |
| 114     | (72) | SIGNED     | 2   | *          | RESERVED                                                                                                                                                                                                               |
| 116     | (74) | SIGNED     | 2   | WMSTSIPL   | PAGE RATE LOW LIMIT                                                                                                                                                                                                    |
| 118     | (76) | SIGNED     | 2   | WMSTSIPH   | PAGE RATE HIGH LIMIT                                                                                                                                                                                                   |
| 120     | (78) | SIGNED     | 4   | WMSTCPU    | CPU SERVICE COEFFICIENT                                                                                                                                                                                                |
| 124     | (7C) | SIGNED     | 4   | WMSTIOC    | IOC SERVICE COEFFICIENT                                                                                                                                                                                                |
| 128     | (80) | SIGNED     | 4   | WMSTMISO   | MISO SERVICE COEFFICIENT                                                                                                                                                                                               |
| 132     | (84) | SIGNED     | 4   | WMSTSRB    | SRB SERVICE COEF.                                                                                                                                                                                                      |
| 136     | (88) | UNSIGNED   | 1   | WMSTREAL   | REAL TIME INDICATOR                                                                                                                                                                                                    |
| 137     | (89) | UNSIGNED   | 1   | WMSTFLAG   | WMST CONTROL FLAGS                                                                                                                                                                                                     |
|         |      | 1... ....  |     | *          | reserved                                                                                                                                                                                                               |
|         |      | .1.. ....  |     | WMSTMS6    | MS6 has seen this Wmst                                                                                                                                                                                                 |
|         |      | ...1. .... |     | WMSTIOQ    | QUEUE I/O BY DPRTY                                                                                                                                                                                                     |
|         |      | ...1 ....  |     | WMSTSICM   | COMMON STRG ISOLATION ACTIVE                                                                                                                                                                                           |
|         |      | .... 1...  |     | WMSTSIPG   | PRIVATE STRG ISOLATION ACTIVE                                                                                                                                                                                          |
|         |      | .... .1..  |     | WMSTSIWS   | COMMON WORK SET SPEC                                                                                                                                                                                                   |
|         |      | .... ..1.  |     | WMSTSIPI   | COMMON PAGE RATE SPEC                                                                                                                                                                                                  |
|         |      | .... ...1  |     | WMSTSIPI   | INDICATES THAT A NEW WMST IS BEING BUILT BY IEEMB812 (SET IPS) PROCESSING AND THEREFORE THE NEWIPS SYSEVENT SHOULD CHECK TO INSURE THAT THE SYSTEM IS IN COMPATIBILITY MODE BEFORE ALLOWING THE NEWIPS TO BE PROCESSED |
| 138     | (8A) | SIGNED     | 2   | WMSTNTU    | NUMBER OF TUNITS/SEC                                                                                                                                                                                                   |
| 140     | (8C) | ADDRESS    | 4   | WMSTSET    | SET PROCS ROUTINE ADDR                                                                                                                                                                                                 |
| 144     | (90) | UNSIGNED   | 1   | WMSTFLG2   | FLAGS                                                                                                                                                                                                                  |
|         |      | 1... ....  |     | WMSTDCTS   | I/O SERVICE USES DEVICE CONNECT TIME RATHER THAN EXCP COUNTS                                                                                                                                                           |
|         |      | .1.. ....  |     | WMST850E   | IRA850E has been issued                                                                                                                                                                                                |
|         |      | ..1. ....  |     | WMSTOVEL   | Do not include I/O samples in velocity definition                                                                                                                                                                      |
|         |      | ...1 ....  |     | WMSTREFR   | Refresh the policy                                                                                                                                                                                                     |
|         |      | .... 1...  |     | WMSTDAT    | Dynamic alias tuning available on all systems                                                                                                                                                                          |
|         |      | .... .111  |     | *          | RESERVED                                                                                                                                                                                                               |
| 145     | (91) | CHARACTER  | 3   | WMSTRSV5   | RESERVED                                                                                                                                                                                                               |
| 148     | (94) | ADDRESS    | 4   | WMSTNWST   | SET PROCS NXT WMST ADR                                                                                                                                                                                                 |
| 152     | (98) | SIGNED     | 2   | WMSTMXPB   | HIGHEST PGN IN IPS                                                                                                                                                                                                     |
| 154     | (9A) | SIGNED     | 2   | WMSTPERS   | NUM OF PERIODS IN IPS                                                                                                                                                                                                  |
| 156     | (9C) | CHARACTER  | 4   | WMSTIPC    | CPU SERVICE COEF.                                                                                                                                                                                                      |
| 160     | (A0) | CHARACTER  | 4   | WMSTIPI    | I/O SERVICE COEF.                                                                                                                                                                                                      |
| 164     | (A4) | CHARACTER  | 2   | WMSTIPSS   | Last valid IPS suffix used in compat mode or 00x                                                                                                                                                                       |
| 166     | (A6) | CHARACTER  | 2   | WMSTICSS   | Last valid ICS suffix used in compat mode or 00x                                                                                                                                                                       |
| 168     | (A8) | CHARACTER  | 4   | WMSTIPB    | SRB SERVICE COEF.                                                                                                                                                                                                      |
| 172     | (AC) | ADDRESS    | 4   | WMSTNPOL   | Next Policy Address - Valid during policy instantiation only                                                                                                                                                           |
| 176     | (B0) | ADDRESS    | 4   | WMSTCSTR   | CSTR address (goal and compat)                                                                                                                                                                                         |
| 180     | (B4) | UNSIGNED   | 1   | WMSTCSEQ   | Classification sequence number (goal and compat)                                                                                                                                                                       |
| 181     | (B5) | CHARACTER  | 3   | *          | Reserved                                                                                                                                                                                                               |
| 184     | (B8) | ADDRESS    | 4   | *          | Reserved                                                                                                                                                                                                               |
| 188     | (BC) | ADDRESS    | 4   | *          | Reserved                                                                                                                                                                                                               |
| 192     | (C0) | CHARACTER  | 0   | WMSTEND    | END OF WMST End of this block                                                                                                                                                                                          |

**WMST Constants**

| Len | Type    | Value | Name    | Description |
|-----|---------|-------|---------|-------------|
| 4   | DECIMAL | 192   | WMSTLEN |             |

**WMST Cross Reference**

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| WMST     | 0          |           | WMSTSIPI | 89         | 02        |
| WMSTBEST | 3E         |           | WMSTSIPL | 74         |           |
| WMSTCPU  | 78         |           | WMSTSIPS | 89         | 01        |
| WMSTCSEQ | B4         |           | WMSTSIWH | 50         |           |
| WMSTCSTR | B0         |           | WMSTSIWL | 4C         |           |
| WMSTDAT  | 90         | 08        | WMSTSIWS | 89         | 04        |
| WMSTDCTS | 90         | 80        | WMSTSPTS | C          |           |
| WMSTDISC | 42         |           | WMSTSRSB | 84         |           |
| WMSTDMDE | 5C         |           | WMSTTOC  | 70         |           |
| WMSTDMD5 | 1C         |           | WMSTTSGS | 34         |           |
| WMSTDMDT | 18         |           | WMSTTSGT | 30         |           |
| WMSTDMNC | 66         |           | WMSTTSPS | 2C         |           |
| WMSTDMVS | 24         |           | WMSTTSPT | 28         |           |
| WMSTDMVT | 20         |           | WMSTUPGN | 6          |           |
| WMSTDUMP | 3C         |           | WMSTWLHI | 60         |           |
| WMSTEND  | C0         |           | WMSTWLMB | 6A         |           |
| WMSTFLAG | 89         |           | WMSTWLMG | 68         |           |
| WMSTFLG2 | 90         |           | WMSTWLML | 48         |           |
| WMSTGOOD | 40         |           | WMSTWMCT | 38         |           |
| WMSTICSS | A6         |           | WMST850E | 90         | 40        |
| WMSTID   | 4          |           |          |            |           |
| WMSTIOC  | 7C         |           |          |            |           |
| WMSTIOQ  | 89         | 20        |          |            |           |
| WMSTIPB  | A8         |           |          |            |           |
| WMSTIPC  | 9C         |           |          |            |           |
| WMSTIPI  | A0         |           |          |            |           |
| WMSTIPM  | 54         |           |          |            |           |
| WMSTIPSS | A4         |           |          |            |           |
| WMSTM50  | 80         |           |          |            |           |
| WMSTMS6  | 89         | 40        |          |            |           |
| WMSTMXPG | 98         |           |          |            |           |
| WMSTNAME | 0          |           |          |            |           |
| WMSTNPOL | AC         |           |          |            |           |
| WMSTNTU  | 8A         |           |          |            |           |
| WMSTNWST | 94         |           |          |            |           |
| WMSTOVEL | 90         | 20        |          |            |           |
| WMSTPERS | 9A         |           |          |            |           |
| WMSTPGDS | 14         |           |          |            |           |
| WMSTPGDT | 10         |           |          |            |           |
| WMSTPGHI | 62         |           |          |            |           |
| WMSTPGPC | 64         |           |          |            |           |
| WMSTPGVS | C          |           |          |            |           |
| WMSTPGVT | 8          |           |          |            |           |
| WMSTQSC  | 44         |           |          |            |           |
| WMSTREAL | 88         |           |          |            |           |
| WMSTREFR | 90         | 10        |          |            |           |
| WMSTRSV5 | 91         |           |          |            |           |
| WMSTSCHI | 62         |           |          |            |           |
| WMSTSCLO | 60         |           |          |            |           |
| WMSTSCTS | 14         |           |          |            |           |
| WMSTSET  | 8C         |           |          |            |           |
| WMSTSICM | 89         | 10        |          |            |           |
| WMSTSIC1 | 3C         |           |          |            |           |
| WMSTSIC2 | 40         |           |          |            |           |
| WMSTSIC3 | 44         |           |          |            |           |
| WMSTSIPG | 89         | 08        |          |            |           |
| WMSTSIPH | 76         |           |          |            |           |





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## WPL Programming Interface information

Programming Interface information

WPL

End of Programming Interface information

## WPL Heading Information

**Common Name:** WTO/WTOR/MLWTO/WTP PARAMETER LIST  
**Macro ID:** IEZWPL  
**DSECT Name:** WPLRF (DSECT CARD PRECEDES PREFIX). 'WPL' SHOULD BE THE LABEL FOR A USING STATEMENT FOR THE COMMON SECTION OF THE PARAMETER LIST.  
 WPLFLGS. IF A WPX IS NOT USED, THIS AREA WILL FOLLOW THE MESSAGE TEXT.  
**Owning Component:** COMMUNICATIONS TASK (SC1CK)  
**Eye-Catcher ID:** NONE  
**Storage Attributes:** Subpool: USER DEFINED SUBPOOL  
 Key: USER KEY  
 Residency: ABOVE OR BELOW THE 16M LINE  
**Size:** VARIABLE  
**Created by:** ISSUER OF WTO OR WTOR MACRO  
**Pointed to by:** REGISTER 1, WHEN WTO OR WTOR IS ISSUED  
**Serialization:** NONE  
**Function:** PROVIDES A MAPPING OF THE WTO/R MACRO PARAMETER LIST.

## WPL Map

| Offsets |     |            |     |             |                                           |
|---------|-----|------------|-----|-------------|-------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim)  | Description                               |
| 0       | (0) | STRUCTURE  | 0   | WPLRF       | , START OF WTOR PREFIX (24-BIT PARM LIST) |
| 0       | (0) | ADDRESS    | 4   | WPLRPTR (0) | POINTER TO REPLY BUFFER                   |
| 0       | (0) | SIGNED     | 1   | WPLRLN      | MAXIMUM LENGTH OF REPLY                   |
| 1       | (1) | ADDRESS    | 3   | WPLRPTRA    | ADDRESS OF REPLY BUFFER                   |
| 4       | (4) | ADDRESS    | 4   | WPLRECB     | ADDRESS OF REPLY ECB                      |

Comment

WTOR PREFIX (31-BIT PARAMETER LIST)

End of Comment

|   |     |           |   |          |                                             |
|---|-----|-----------|---|----------|---------------------------------------------|
| 0 | (0) | X'0'      | 0 | WPL31RF  | *** START OF WTOR PREFIX (31-BIT PARM LIST) |
| 0 | (0) | ADDRESS   | 4 | WPL31RRP | ADDRESS OF REPLY BUFFER                     |
|   |     | 1... .... |   | WPL31RFG | "X'80" INDICATES A WTOR                     |
| 4 | (4) | ADDRESS   | 4 | WPL31REP | ADDRESS OF REPLY ECB                        |

Comment

COMMON SECTION  
 IF THE TEXT PARAMETER IS SPECIFIED INSTEAD OF INLINE MESSAGE TEXT, THE VALUE OF WPLLPTXT WILL ONLY REFLECT THE 4 BYTE LENGTH OF THE POINTER.

End of Comment

|   |     |        |   |            |                                                                                                                            |
|---|-----|--------|---|------------|----------------------------------------------------------------------------------------------------------------------------|
| 0 | (0) | X'0'   | 0 | WPL        | *** START OF COMMON SECTION                                                                                                |
| 0 | (0) | SIGNED | 2 | WPLLGH (0) | FOR A 24-BIT WTOR PARMLIST, THIS IS THE MESSAGE LENGTH (COMBINED LENGTH OF MSG TEXT, MSG LENGTH FIELD AND MCS FLAGS FIELD) |
| 0 | (0) | SIGNED | 1 | WPL31RLN   | IF WPL IS FOR A 31-BIT WTOR PARMLIST, THIS IS THE LENGTH OF THE REPLY BUFFER. OTHERWISE, THIS FIELD MUST BE ZERO           |
| 1 | (1) | SIGNED | 1 | WPLLPTXT   | MESSAGE LENGTH (COMBINED LENGTH OF MSG TEXT, MSG LENGTH FIELD AND MCS FLAGS FIELD)                                         |

| Offsets                                                                                                                                                |      |            |     |              |                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-----|--------------|-------------------------------------------------------------------------------------------------------------------------|
| Dec                                                                                                                                                    | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                             |
| Comment                                                                                                                                                |      |            |     |              |                                                                                                                         |
| MCS FLAGS<br>CHANGES TO THE MCS FLAGS WILL ALSO IMPACT THE<br>MCS FLAGS IN IHAWQE AND IHACTM                                                           |      |            |     |              |                                                                                                                         |
| End of Comment                                                                                                                                         |      |            |     |              |                                                                                                                         |
| 2                                                                                                                                                      | (2)  | BITSTRING  | 2   | WPLMCSF (0)  | MCS FLAGS                                                                                                               |
| 2                                                                                                                                                      | (2)  | BITSTRING  | 1   | WPLMCSF1     | FIRST BYTE OF MCS FLAGS                                                                                                 |
|                                                                                                                                                        |      | 1... ....  |     | WPLMCSFA     | "BIT0" ROUTE/DESCRIPTOR CODE FIELDS PRESENT                                                                             |
|                                                                                                                                                        |      | .1... .... |     | WPLMCSFB     | "BIT1" QUEUE TO CONSOLE IF ACTIVE (ID IN REG 0)                                                                         |
|                                                                                                                                                        |      | ..1. ....  |     | WPLMCSFC     | "BIT2" COMMAND RESPONSE                                                                                                 |
|                                                                                                                                                        |      | ...1 ....  |     | WPLMCSFD     | "BIT3" MESSAGE TYPE FIELD EXISTS                                                                                        |
|                                                                                                                                                        |      | .... 1...  |     | WPLMCSFE     | "BIT4" THIS WPL IS A REPLY TO A WTOR                                                                                    |
|                                                                                                                                                        |      | .... .1..  |     | WPLMCSFF     | "BIT5" BROADCAST THIS MSG TO ALL ACTIVE CONSOLES                                                                        |
|                                                                                                                                                        |      | .... ..1.  |     | WPLMCSFG     | "BIT6" QUEUE TO HARD COPY ONLY                                                                                          |
|                                                                                                                                                        |      | .... ...1  |     | WPLMCSFH     | "BIT7" QUEUE TO CONSOLE (ID IN REG 0)                                                                                   |
| 3                                                                                                                                                      | (3)  | BITSTRING  | 1   | WPLMCSF2     | SECOND BYTE OF MCS FLAGS                                                                                                |
|                                                                                                                                                        |      | 1... ....  |     | WPLMCSFI     | "BIT0" DO NOT TIME STAMP THIS MESSAGE                                                                                   |
|                                                                                                                                                        |      | .1... .... |     | WPLMCSFJ     | "BIT1" MLWTO INDICATOR                                                                                                  |
|                                                                                                                                                        |      | ..1. ....  |     | WPLMCSFK     | "BIT2" PRIMARY SUBSYSTEM USE ONLY JES3: DO NOT<br>LOG MINOR WQE'S IF THE MAJOR IS NOT HARDCOPIED.<br>JES2: NOT USED     |
|                                                                                                                                                        |      | ...1 ....  |     | WPLMCSFL     | "BIT3" EXTENDED WPL FORMAT (WPX) EXISTS                                                                                 |
|                                                                                                                                                        |      | .... 1...  |     | WPLMCSFM     | "BIT4" THE MESSAGE IS AN OPERATOR COMMAND                                                                               |
|                                                                                                                                                        |      | .... .1..  |     | WPLMCSFN     | "BIT5" BYPASS QUEUING MESSAGE TO HARD COPY                                                                              |
|                                                                                                                                                        |      | .... ..1.  |     | WPLMCSFO     | "BIT6" WQEBLK KEYWORD SPECIFIED                                                                                         |
|                                                                                                                                                        |      | .... ...1  |     | WPLRSV01     | "BIT7" RESERVED                                                                                                         |
| Comment                                                                                                                                                |      |            |     |              |                                                                                                                         |
| MESSAGE TEXT                                                                                                                                           |      |            |     |              |                                                                                                                         |
| End of Comment                                                                                                                                         |      |            |     |              |                                                                                                                         |
| 4                                                                                                                                                      | (4)  | CHARACTER  | 126 | WPLTXT (0)   | MESSAGE TEXT (MAXIMUM 126 CHARACTERS)                                                                                   |
| 4                                                                                                                                                      | (4)  | CHARACTER  | 4   | WPLADTXT (0) | MESSAGE TEXT ADDRESS (IF TEXT KEYWORD IS<br>SPECIFIED, THIS FIELD WILL BE GENERATED, EVEN IF<br>THE LINE TYPE IS '10'X) |
| 4                                                                                                                                                      | (4)  | CHARACTER  | 125 |              | MESSAGE TEXT                                                                                                            |
| 129                                                                                                                                                    | (81) | CHARACTER  | 1   | WPLTXTL      | LAST BYTE OF MESSAGE TEXT                                                                                               |
| Comment                                                                                                                                                |      |            |     |              |                                                                                                                         |
| THE FOLLOWING FIELDS BEGIN IMMEDIATELY FOLLOWING THE LAST<br>BYTE OF MESSAGE TEXT IF NO WPX WAS CREATED. IF A WPX<br>WAS CREATED, WPLFLGS IS NOT USED. |      |            |     |              |                                                                                                                         |
| End of Comment                                                                                                                                         |      |            |     |              |                                                                                                                         |
| 0                                                                                                                                                      | (0)  | X'0'       | 0   | WPLFLGS      | *** START OF WPL FLAGS FIELDS                                                                                           |
| Comment                                                                                                                                                |      |            |     |              |                                                                                                                         |
| DESCRIPTOR CODES                                                                                                                                       |      |            |     |              |                                                                                                                         |
| End of Comment                                                                                                                                         |      |            |     |              |                                                                                                                         |
| 0                                                                                                                                                      | (0)  | BITSTRING  | 2   | WPLDESC (0)  | DESCRIPTOR CODES                                                                                                        |
| 0                                                                                                                                                      | (0)  | BITSTRING  | 1   | WPLDESC1     | FIRST BYTE OF DESCRIPTOR CODES                                                                                          |
|                                                                                                                                                        |      | 1... ....  |     | WPLDESCA     | "BIT0" SYSTEM FAILURE MESSAGE                                                                                           |
|                                                                                                                                                        |      | .1... .... |     | WPLDESCB     | "BIT1" IMMEDIATE ACTION REQUIRED MESSAGE                                                                                |
|                                                                                                                                                        |      | ..1. ....  |     | WPLDESCC     | "BIT2" IMPORTANT INFORMATION MESSAGE                                                                                    |
|                                                                                                                                                        |      | ...1 ....  |     | WPLDESCD     | "BIT3" SYSTEM STATUS MESSAGE                                                                                            |
|                                                                                                                                                        |      | .... 1...  |     | WPLDESCE     | "BIT4" IMMEDIATE COMMAND RESPONSE MESSAGE                                                                               |
|                                                                                                                                                        |      | .... .1..  |     | WPLDESCF     | "BIT5" JOB STATUS MESSAGE                                                                                               |

# WPL Map

| Offsets |     |              |     |            |                                                                            |
|---------|-----|--------------|-----|------------|----------------------------------------------------------------------------|
| Dec     | Hex | Type/Value   | Len | Name (Dim) | Description                                                                |
|         |     | .... ..1.    |     | WPLDESCG   | "BIT6" APPLICATION PROGRAM/PROCESSOR MESSAGE OR DELETE AT TASK TERMINATION |
| 1       | (1) | .... ..1     | 1   | WPLDESCH   | "BIT7" OUT-OF-LINE MESSAGE                                                 |
|         |     | 1... ....    |     | WPLDESC2   | SECOND BYTE OF DESCRIPTOR CODES                                            |
|         |     | .1.. ....    |     | WPLDESCI   | "BIT0" OPERATOR'S REQUEST                                                  |
|         |     | .1.. ....    |     | WPLDESCJ   | "BIT1" TRACK COMMAND RESPONSE                                              |
|         |     | .1.. ....    |     | WPLDESCK   | "BIT2" CRITICAL EVENTUAL ACTION REQUIRED                                   |
|         |     | ...1 ....    |     | WPLDESCL   | "BIT3" IMPORTANT INFORMATION MESSAGE                                       |
|         |     | .... 1... .. |     | WPLDESCM   | "BIT4" PREVIOUSLY AUTOMATED                                                |
|         |     | .... .1.. .. |     | WPLRSV10   | "BIT5,,C'X'" RESERVED                                                      |
|         |     | .... ..1.    |     | WPLRSV11   | "BIT6,,C'X'" RESERVED                                                      |
|         |     | .... ..1.    |     | WPLRSV12   | "BIT7,,C'X'" RESERVED                                                      |

Comment

## ROUTING CODES

End of Comment

|   |     |              |   |             |                                                                                                   |
|---|-----|--------------|---|-------------|---------------------------------------------------------------------------------------------------|
| 2 | (2) | BITSTRING    | 2 | WPLROUT (0) | ROUTING CODES THESE CODES INDICATE THE FUNCTIONAL AREA OR AREAS TO WHICH A MESSAGE IS TO BE SENT. |
| 2 | (2) | BITSTRING    | 1 | WPLROUT1    | 1ST BYTE OF ROUTING CODES                                                                         |
|   |     | 1... ....    |   | WPLROUTA    | "BIT0" MASTER CONSOLE                                                                             |
|   |     | .1.. ....    |   | WPLROUTB    | "BIT1" MASTER CONSOLE INFORMATIONAL                                                               |
|   |     | .1.. ....    |   | WPLROUTC    | "BIT2" TAPE POOL                                                                                  |
|   |     | ...1 ....    |   | WPLROUTD    | "BIT3" DIRECT ACCESS POOL                                                                         |
|   |     | .... 1... .. |   | WPLROUTE    | "BIT4" TAPE LIBRARY                                                                               |
|   |     | .... .1.. .. |   | WPLROUTF    | "BIT5" DISK LIBRARY                                                                               |
|   |     | .... ..1.    |   | WPLROUTG    | "BIT6" UNIT RECORD POOL                                                                           |
|   |     | .... ..1.    |   | WPLROUTH    | "BIT7" TELEPROCESSING CONTROL                                                                     |
| 3 | (3) | BITSTRING    | 1 | WPLROUT2    | 2ND BYTE OF ROUTING CODES                                                                         |
|   |     | 1... ....    |   | WPLROUTI    | "BIT0" SYSTEM SECURITY                                                                            |
|   |     | .1.. ....    |   | WPLROUTJ    | "BIT1" SYSTEM/ERROR MAINTENANCE                                                                   |
|   |     | .1.. ....    |   | WPLROUTK    | "BIT2" PROGRAMMER INFORMATION                                                                     |
|   |     | ...1 ....    |   | WPLROUTL    | "BIT3" EMULATOR INFORMATION                                                                       |
|   |     | .... 1... .. |   | WPLROUTM    | "BIT4" USER ROUTING CODE                                                                          |
|   |     | .... .1.. .. |   | WPLROUTN    | "BIT5" USER ROUTING CODE                                                                          |
|   |     | .... ..1.    |   | WPLROUTO    | "BIT6" USER ROUTING CODE                                                                          |
|   |     | .... ..1.    |   | WPLROUTP    | "BIT7" USER ROUTING CODE                                                                          |

Comment

## MESSAGE TYPE FLAGS

End of Comment

|   |     |              |   |              |                                                |
|---|-----|--------------|---|--------------|------------------------------------------------|
| 4 | (4) | BITSTRING    | 2 | WPLMSGTY (0) | MESSAGE TYPE FLAGS                             |
| 4 | (4) | BITSTRING    | 1 | WPLMSGT1     | FIRST BYTE OF MESSAGE TYPE FLAGS               |
|   |     | 1... ....    |   | WPLMSGTA     | "BIT0" MONITOR JOB NAMES                       |
|   |     | .1.. ....    |   | WPLMSGTB     | "BIT1" MONITOR STATUS                          |
|   |     | .1.. ....    |   | WPLMSGTC     | "BIT2" RESERVED                                |
|   |     | ...1 ....    |   | WPLMSGTD     | "BIT3" INDICATES EXISTENCE OF QID FIELD IN WPL |
|   |     | .... 1... .. |   | WPLRSV14     | "BIT4,,C'X'" RESERVED                          |
|   |     | .... .1.. .. |   | WPLMSGTF     | "BIT5" MONITOR SESS                            |
|   |     | .... ..1.    |   | WPLRSV15     | "BIT6,,C'X'" RESERVED                          |
|   |     | .... ..1.    |   | WPLRSV16     | "BIT7,,C'X'" RESERVED                          |
| 5 | (5) | BITSTRING    | 1 | WPLMSGT2     | SECOND BYTE OF MESSAGE TYPE FLAGS              |
|   |     | 1... ....    |   | WPLRSV25     | "BIT0,,C'X'" RESERVED                          |
|   |     | .1.. ....    |   | WPLRSV26     | "BIT1,,C'X'" RESERVED                          |
|   |     | .1.. ....    |   | WPLRSV27     | "BIT2,,C'X'" RESERVED                          |
|   |     | ...1 ....    |   | WPLRSV28     | "BIT3,,C'X'" RESERVED                          |
|   |     | .... 1... .. |   | WPLRSV29     | "BIT4,,C'X'" RESERVED                          |
|   |     | .... .1.. .. |   | WPLRSV30     | "BIT5,,C'X'" RESERVED                          |
|   |     | .... ..1.    |   | WPLRSV31     | "BIT6,,C'X'" RESERVED                          |
|   |     | .... ..1.    |   | WPLRSV32     | "BIT7,,C'X'" RESERVED                          |

Offsets

| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
|-----|-----|------------|-----|------------|-------------|
| 6   | (6) | SIGNED     | 2   | WPLQID     | RESERVED    |

Comment

MLWTO EXTENSION  
 THE FOLLOWING FIELDS ARE ALWAYS PRESENT WHEN MLWTO  
 IS SPECIFIED  
 IF A WPX IS GENERATED, THESE FIELDS WILL FOLLOW THE WPX

End of Comment

Comment

LINE TYPE FLAGS

End of Comment

|   |     |           |   |            |                                                |
|---|-----|-----------|---|------------|------------------------------------------------|
| 0 | (0) | BITSTRING | 2 | WPLLTF (0) | LINE TYPE FLAGS FOR WPLTXT                     |
| 0 | (0) | BITSTRING | 1 | WPLLTF1    | 1ST BYTE OF WPLTXT LINE TYPE FLAGS             |
|   |     | 1... ..   |   | WPLLTF1A   | "BIT0" CONTROL LINE                            |
|   |     | .1.. ..   |   | WPLLTF1B   | "BIT1" LABEL LINE                              |
|   |     | ..1. ..   |   | WPLLTF1C   | "BIT2" DATA LINE                               |
|   |     | ...1 ..   |   | WPLLTF1D   | "BIT3" END LINE                                |
|   |     | .... 1..  |   | WPLRSV17   | "BIT4,,C'X'" RESERVED                          |
|   |     | .... .1.. |   | WPLRSV18   | "BIT5,,C'X'" RESERVED                          |
|   |     | .... ..1. |   | WPLRSV19   | "BIT6,,C'X'" RESERVED                          |
|   |     | .... ...1 |   | WPLRSV20   | "BIT7,,C'X'" RESERVED                          |
| 1 | (1) | BITSTRING | 1 | WPLLTF2    | 2ND BYTE OF WPLTXT LINE TYPE FLAGS             |
| 2 | (2) | CHARACTER | 1 | WPLAREA    | AREA IDENTIFICATION                            |
| 3 | (3) | SIGNED    | 1 | WPLLINES   | NUMBER OF LINES (1 + NUMBER OF WPLMLTXX LINES) |
| 3 | (3) | X'4'      | 0 | WPLMLEXL   | **WPLLTF" LENGTH OF MLWTO EXTENTION            |

Comment

THE FOLLOWING FIELDS ARE OPTIONAL FOR MLWTO. THEY REPRESENT  
 A MAPPING OF THE ENTRIES DESCRIBING MESSAGE TEXT LINES  
 CREATED IN ADDITION TO THE WPLTXT MESSAGE TEXT LINE

End of Comment

|   |     |        |   |          |                                                              |
|---|-----|--------|---|----------|--------------------------------------------------------------|
| 0 | (0) | X'0'   | 0 | WPLML    | *** START OF ADDITIONAL MLWTO LINE ENTRY                     |
| 0 | (0) | SIGNED | 1 | WPLML0   | ALWAYS ZERO                                                  |
| 1 | (1) | SIGNED | 1 | WPLMLLEN | MESSAGE LENGTH FOR THIS LINE (LENGTH OF MESSAGE<br>TEXT + 4) |

Comment

LINE TYPE FLAGS FOR WPLMLTXX

End of Comment

|   |     |           |     |              |                                                                                                                         |
|---|-----|-----------|-----|--------------|-------------------------------------------------------------------------------------------------------------------------|
| 2 | (2) | BITSTRING | 2   | WPLMLLTF (0) | TYPE FLAGS FOR THIS LINE (WPLMLTXX)                                                                                     |
| 2 | (2) | BITSTRING | 1   | WPLMLLT1     | 1ST BYTE OF LINE TYPE FLAGS FOR WPLMLTXX                                                                                |
|   |     | 1... ..   |     | WPLMLLTA     | "BIT0" CONTROL LINE                                                                                                     |
|   |     | .1.. ..   |     | WPLMLLTB     | "BIT1" LABEL LINE                                                                                                       |
|   |     | ..1. ..   |     | WPLMLLTC     | "BIT2" DATA LINE                                                                                                        |
|   |     | ...1 ..   |     | WPLMLLTD     | "BIT3" END LINE                                                                                                         |
|   |     | .... 1..  |     | WPLRSV21     | "BIT4,,C'X'" RESERVED                                                                                                   |
|   |     | .... .1.. |     | WPLRSV22     | "BIT5,,C'X'" RESERVED                                                                                                   |
|   |     | .... ..1. |     | WPLRSV23     | "BIT6,,C'X'" RESERVED                                                                                                   |
|   |     | .... ...1 |     | WPLRSV24     | "BIT7,,C'X'" RESERVED                                                                                                   |
| 3 | (3) | BITSTRING | 1   | WPLMLLT2     | 2ND BYTE OF LINE TYPE FLAGS FOR WPLMLTXX                                                                                |
| 4 | (4) | CHARACTER | 126 | WPLMLTXX (0) | MESSAGE TEXT FOR THIS LINE (MAXIMUM 126<br>CHARACTERS)                                                                  |
| 4 | (4) | CHARACTER | 4   | WPLMLADT (0) | MESSAGE TEXT ADDRESS (IF TEXT KEYWORD IS<br>SPECIFIED, THIS FIELD WILL BE GENERATED, EVEN IF<br>THE LINE TYPE IS '10'X) |

## WPL Map

| Offsets                                                                                                     |     |            |     |              |                                                                                        |
|-------------------------------------------------------------------------------------------------------------|-----|------------|-----|--------------|----------------------------------------------------------------------------------------|
| Dec                                                                                                         | Hex | Type/Value | Len | Name (Dim)   | Description                                                                            |
| 4                                                                                                           | (4) | CHARACTER  | 126 |              | INLINE MESSAGE TEXT                                                                    |
| Comment                                                                                                     |     |            |     |              |                                                                                        |
| THE FOLLOWING IS THE DECLARATION OF THE WPX WHICH IS BUILT FOLLOWING THE TEXT WHEN MCS FLAG WPLMCSFL IS ON. |     |            |     |              |                                                                                        |
| End of Comment                                                                                              |     |            |     |              |                                                                                        |
| 0                                                                                                           | (0) | X'0'       | 0   | WPX          | "" START OF WPL EXTENSION                                                              |
| 0                                                                                                           | (0) | ADDRESS    | 1   | WPXVRSN      | VERSION LEVEL                                                                          |
| 0                                                                                                           | (0) | X'1'       | 0   | WPXS220      | "1" LEVEL OS/VS2 JBB2220                                                               |
| 0                                                                                                           | (0) | X'2'       | 0   | WPXS410      | "2" LEVEL HBB4410                                                                      |
| 0                                                                                                           | (0) | X'3'       | 0   | WPXS422      | "3" LEVEL JBB4422                                                                      |
| 0                                                                                                           | (0) | X'4'       | 0   | WPXS603      | "4" LEVEL HBB6603                                                                      |
| 0                                                                                                           | (0) | X'4'       | 0   | WPXVERN      | "WPXS603" CURRENT VERSION LEVEL                                                        |
| Comment                                                                                                     |     |            |     |              |                                                                                        |
| MPF/SUBSMOD FLAGS                                                                                           |     |            |     |              |                                                                                        |
| End of Comment                                                                                              |     |            |     |              |                                                                                        |
| 1                                                                                                           | (1) | BITSTRING  | 1   | WPXFLAGS     | MPF/SUBSMOD FLAGS                                                                      |
|                                                                                                             |     | 1... ....  |     | WPXMPFSP     | "BIT0" MESSAGE IS TO BE SUPPRESSED DUE TO MPF                                          |
|                                                                                                             |     | .1... .... |     | WPXMPFPR     | "BIT1" MESSAGE WAS PROCESSED BY MPF AND IS NOT TO BE SUPPRESSED                        |
|                                                                                                             |     | ..1. ....  |     | WPXNMOD      | "BIT2" THE CHARACTERISTICS OF THE MESSAGE MAY NOT BE MODIFIED BY THE PRIMARY SUBSYSTEM |
| 2                                                                                                           | (2) | ADDRESS    | 1   | WPXRPYLN     | LENGTH OF REPLY BUFFER                                                                 |
| 3                                                                                                           | (3) | ADDRESS    | 1   | WPXLNGTH     | LENGTH OF WPX                                                                          |
| Comment                                                                                                     |     |            |     |              |                                                                                        |
| EXTENDED MCS FLAGS                                                                                          |     |            |     |              |                                                                                        |
| CHANGES TO THE EXTENDED MCS FLAGS WILL ALSO IMPACT THE EXTENDED MCS FLAGS IN IHAWQE AND IHACTM              |     |            |     |              |                                                                                        |
| End of Comment                                                                                              |     |            |     |              |                                                                                        |
| 4                                                                                                           | (4) | BITSTRING  | 2   | WPXMCSF1 (0) | EXTENDED MCS FLAGS                                                                     |
| 4                                                                                                           | (4) | BITSTRING  | 1   | WPXMCS1      | FIRST BYTE OF EXTENDED MCS FLAGS                                                       |
|                                                                                                             |     | 1... ....  |     | WPXBUSY      | "BIT0" RETURN WITH BUSY RETURN CODE IF BUFFER LIMITS EXCEEDED                          |
|                                                                                                             |     | .1... .... |     | WPXCONS      | "BIT1" FOUR BYTE CONSOLE ID WAS SPECIFIED                                              |
|                                                                                                             |     | ..1. ....  |     | WPXDOMI      | "BIT2" DOM ID WAS SPECIFIED                                                            |
|                                                                                                             |     | ...1 ...   |     | WPXCONN      | "BIT3" CONNECT ID WAS SPECIFIED                                                        |
|                                                                                                             |     | .... 1...  |     | WPXWTOR      | "BIT4" WTOR WITH EXTENDED PARM LIST                                                    |
|                                                                                                             |     | .... .1..  |     | WPXPRIO      | "BIT5" PRIORITY WAS SPECIFIED                                                          |
|                                                                                                             |     | .... ..1.  |     | WPXCNM       | "BIT6" CONSOLE NAME WAS SPECIFIED                                                      |
| 5                                                                                                           | (5) | BITSTRING  | 1   | WPXMCS2      | 2ND BYTE OF EXTENDED MCS FLAGS                                                         |
|                                                                                                             |     | 1... ....  |     | WPXTXTAD     | "BIT0" TEXT ADDRESS WAS SPECIFIED                                                      |
|                                                                                                             |     | .1... .... |     | WPXRSV1A     | "BIT1" RESERVED                                                                        |
|                                                                                                             |     | ..1. ....  |     | WPXRSV48     | "BIT2" RESERVED                                                                        |
|                                                                                                             |     | ...1 ....  |     | WPXRSV49     | "BIT3" RESERVED                                                                        |
|                                                                                                             |     | .... 1...  |     | WPXRSV50     | "BIT4" RESERVED                                                                        |
|                                                                                                             |     | .... ..1.  |     | WPXRSV51     | "BIT5" PROCESS SYNCHRONOUS WITH RESPECT TO THE CALLER                                  |
|                                                                                                             |     | .... ...1  |     | WPXRSV52     | "BIT6" RESERVED                                                                        |
|                                                                                                             |     | .... ...1  |     | WPXRSV52     | "BIT7" RESERVED                                                                        |
| 6                                                                                                           | (6) | BITSTRING  | 2   | WPXCPFLG (0) | FLAGS FOR CONTROL PROGRAM USE ONLY                                                     |
| 6                                                                                                           | (6) | BITSTRING  | 1   | WPXCPFL1     | FLAGS FOR CONTROL PROGRAM USE BYTE1                                                    |
|                                                                                                             |     | 1... ....  |     | WPXRROK      | "BIT0" RESTART RESOURCE IS NOT TO BE OBTAINED                                          |
|                                                                                                             |     | .1... .... |     | WPXNOHO      | "BIT1" DON'T HOLD THE MESSAGE FOR TEN SECONDS                                          |
|                                                                                                             |     | ..1. ....  |     | WPXNLCK      | "BIT2" DO NOT ATTEMPT TO OBTAIN ANY LOCKS                                              |
|                                                                                                             |     | ...1 ....  |     | WPXACLW      | "BIT3" USE ALTERNATE CPU LOADWAIT PATH                                                 |
|                                                                                                             |     | .... 1...  |     | WPXSPVD      | "BIT4" SUPER PRIVILEGED                                                                |

| Offsets |      |            |     |             |                                     |
|---------|------|------------|-----|-------------|-------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)  | Description                         |
|         |      | .... .1..  |     | WPXQONLY    | "BIT5" MESSAGE GOES ONLY TO CONSOLE |
|         |      | .... ..1.  |     | WPXRSV56    | "BIT6" RESERVED                     |
|         |      | .... ...1  |     | WPXRSV57    | "BIT7" RESERVED                     |
| 7       | (7)  | BITSTRING  | 1   | WPXCPFL2    | FLAGS FOR CONTROL PROGRAM USE BYTE2 |
|         |      | 1... ....  |     | WPXRSV60    | "BIT0" RESERVED                     |
|         |      | .1.. ....  |     | WPXRSV61    | "BIT1" RESERVED                     |
|         |      | ..1. ....  |     | WPXRSV62    | "BIT2" RESERVED                     |
|         |      | ...1 ....  |     | WPXRSV63    | "BIT3" RESERVED                     |
|         |      | .... 1...  |     | WPXRSV64    | "BIT4" RESERVED                     |
|         |      | .... .1..  |     | WPXRSV65    | "BIT5" RESERVED                     |
|         |      | .... ..1.  |     | WPXRSV66    | "BIT6" RESERVED                     |
|         |      | .... ...1  |     | WPXRSV67    | "BIT7" RESERVED                     |
| 8       | (8)  | ADDRESS    | 4   | WPXRPBUF    | REPLY BUFFER ADDRESS                |
| 12      | (C)  | ADDRESS    | 4   | WPXECBP     | REPLY ECB ADDRESS                   |
| 16      | (10) | SIGNED     | 4   | WPXSEQN (0) | DOM/CONNECT ID                      |
| 16      | (10) | ADDRESS    | 1   | WPXSYSID    | SYSTEM ID                           |
| 17      | (11) | ADDRESS    | 3   | WPXSQID     | DOM SEQUENCE NUMBER                 |

Comment

DESCRIPTOR CODES

End of Comment

|    |      |           |   |             |                                                                            |
|----|------|-----------|---|-------------|----------------------------------------------------------------------------|
| 20 | (14) | BITSTRING | 2 | WPXDESC (0) | DESCRIPTOR CODES                                                           |
| 20 | (14) | BITSTRING | 1 | WPXDESC1    | FIRST BYTE OF DESCRIPTOR CODES                                             |
|    |      | 1... .... |   | WPXDESCA    | "BIT0" SYSTEM FAILURE MESSAGE                                              |
|    |      | .1.. .... |   | WPXDESCB    | "BIT1" IMMEDIATE ACTION REQUIRED MESSAGE                                   |
|    |      | ..1. .... |   | WPXDESCC    | "BIT2" EVENTUAL ACTION REQUIRED MESSAGE                                    |
|    |      | ...1 .... |   | WPXDESCD    | "BIT3" SYSTEM STATUS MESSAGE                                               |
|    |      | .... 1... |   | WPXDESCE    | "BIT4" IMMEDIATE COMMAND RESPONSE MESSAGE                                  |
|    |      | .... .1.. |   | WPXDESCF    | "BIT5" JOB STATUS MESSAGE                                                  |
|    |      | .... ..1. |   | WPXDESCG    | "BIT6" APPLICATION PROGRAM/PROCESSOR MESSAGE OR DELETE AT TASK TERMINATION |
|    |      | .... ...1 |   | WPXDESCH    | "BIT7" OUT-OF-LINE MESSAGE                                                 |
| 21 | (15) | BITSTRING | 1 | WPXDESC2    | SECOND BYTE OF DESCRIPTOR CODES                                            |
|    |      | 1... .... |   | WPXDESCI    | "BIT0" OPERATOR'S REQUEST                                                  |
|    |      | .1.. .... |   | WPXDESCJ    | "BIT1" TRACK COMMAND RESPONSE                                              |
|    |      | ..1. .... |   | WPXDESCK    | "BIT2" CRITICAL EVENTUAL ACTION REQUIRED                                   |
|    |      | ...1 .... |   | WPXDESCL    | "BIT3" DELIVERED BUT NOT HELD                                              |
|    |      | .... 1... |   | WPXRSV4     | "BIT4,,C'X'" RESERVED                                                      |
|    |      | .... .1.. |   | WPXRSV5     | "BIT5,,C'X'" RESERVED                                                      |
|    |      | .... ..1. |   | WPXRSV6     | "BIT6,,C'X'" RESERVED                                                      |
|    |      | .... ...1 |   | WPXRSV7     | "BIT7,,C'X'" RESERVED                                                      |
| 22 | (16) | ADDRESS   | 2 | WPXRSV8     | RESERVED                                                                   |

Comment

128 ROUTING CODES

End of Comment

|    |      |           |    |             |                                                                                                   |
|----|------|-----------|----|-------------|---------------------------------------------------------------------------------------------------|
| 24 | (18) | BITSTRING | 16 | WPXROUT (0) | ROUTING CODES THESE CODES INDICATE THE FUNCTIONAL AREA OR AREAS TO WHICH A MESSAGE IS TO BE SENT. |
| 24 | (18) | BITSTRING | 1  | WPXR001     | 1ST BYTE OF ROUTING CODES                                                                         |
|    |      | 1... .... |    | WPXR01      | "BIT0" MASTER CONSOLE                                                                             |
|    |      | .1.. .... |    | WPXR02      | "BIT1" MASTER CONSOLE INFORMATIONAL                                                               |
|    |      | ..1. .... |    | WPXR03      | "BIT2" TAPE POOL                                                                                  |
|    |      | ...1 .... |    | WPXR04      | "BIT3" DIRECT ACCESS POOL                                                                         |
|    |      | .... 1... |    | WPXR05      | "BIT4" TAPE LIBRARY                                                                               |
|    |      | .... .1.. |    | WPXR06      | "BIT5" DISK LIBRARY                                                                               |
|    |      | .... ..1. |    | WPXR07      | "BIT6" UNIT RECORD POOL                                                                           |
|    |      | .... ...1 |    | WPXR08      | "BIT7" TELEPROCESSING CONTROL                                                                     |
| 25 | (19) | BITSTRING | 1  | WPXR002     | 2ND BYTE OF ROUTING CODES                                                                         |
|    |      | 1... .... |    | WPXR09      | "BIT0" SYSTEM SECURITY                                                                            |

# WPL Map

| Offsets |      |            |     |            |                                 |
|---------|------|------------|-----|------------|---------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                     |
|         |      | .1.. ....  |     | WPXR10     | "BIT1" SYSTEM/ERROR MAINTENANCE |
|         |      | ..1. ....  |     | WPXR11     | "BIT2" PROGRAMMER INFORMATION   |
|         |      | ...1 ....  |     | WPXR12     | "BIT3" EMULATOR INFORMATION     |
|         |      | .... 1..   |     | WPXR13     | "BIT4" USER ROUTING CODE        |
|         |      | .... .1..  |     | WPXR14     | "BIT5" USER ROUTING CODE        |
|         |      | .... ..1.  |     | WPXR15     | "BIT6" USER ROUTING CODE        |
|         |      | .... ...1  |     | WPXR16     | "BIT7" USER ROUTING CODE        |
| 26      | (1A) | BITSTRING  | 1   | WPXR003    | 3RD BYTE OF ROUTING CODES       |
| 27      | (1B) | BITSTRING  | 1   | WPXR004    | 4TH BYTE OF ROUTING CODES       |
| 28      | (1C) | BITSTRING  | 1   | WPXR005    | 5TH BYTE OF ROUTING CODES       |
| 29      | (1D) | BITSTRING  | 1   | WPXR006    | 6TH BYTE OF ROUTING CODES       |
| 30      | (1E) | BITSTRING  | 1   | WPXR007    | 7TH BYTE OF ROUTING CODES       |
| 31      | (1F) | BITSTRING  | 1   | WPXR008    | 8TH BYTE OF ROUTING CODES       |
| 32      | (20) | BITSTRING  | 1   | WPXR009    | 9TH BYTE OF ROUTING CODES       |
| 33      | (21) | BITSTRING  | 1   | WPXR010    | 10TH BYTE OF ROUTING CODES      |
| 34      | (22) | BITSTRING  | 1   | WPXR011    | 11TH BYTE OF ROUTING CODES      |
| 35      | (23) | BITSTRING  | 1   | WPXR012    | 12TH BYTE OF ROUTING CODES      |
| 36      | (24) | BITSTRING  | 1   | WPXR013    | 13TH BYTE OF ROUTING CODES      |
| 37      | (25) | BITSTRING  | 1   | WPXR014    | 14TH BYTE OF ROUTING CODES      |
| 38      | (26) | BITSTRING  | 1   | WPXR015    | 15TH BYTE OF ROUTING CODES      |
| 39      | (27) | BITSTRING  | 1   | WPXR016    | 16TH BYTE OF ROUTING CODES      |

Comment

## MESSAGE TYPE FLAGS

End of Comment

|     |      |           |    |              |                                                       |
|-----|------|-----------|----|--------------|-------------------------------------------------------|
| 40  | (28) | BITSTRING | 2  | WPXMSGTY (0) | MESSAGE TYPE FLAGS                                    |
| 40  | (28) | BITSTRING | 1  | WPXMSGT1     | FIRST BYTE OF MESSAGE TYPE FLAGS                      |
|     |      | 1... .... |    | WPXMSGTA     | "BIT0" MONITOR JOB NAMES                              |
|     |      | ..1. .... |    | WPXMSGTB     | "BIT1" MONITOR STATUS                                 |
|     |      | ...1 .... |    | WPXRSV9      | "BIT2,,C'X'" RESERVED                                 |
|     |      | .... 1..  |    | WPXRSV10     | "BIT3,,C'X'" RESERVED                                 |
|     |      | .... .1.. |    | WPXRSV11     | "BIT4,,C'X'" RESERVED                                 |
|     |      | .... ..1. |    | WPXMSGTF     | "BIT5" MONITOR SESS                                   |
|     |      | .... ...1 |    | WPXRSV12     | "BIT6,,C'X'" RESERVED                                 |
|     |      | .... ...1 |    | WPXRSV13     | "BIT7,,C'X'" RESERVED                                 |
| 41  | (29) | BITSTRING | 1  | WPXMSGT2     | SECOND BYTE OF MESSAGE TYPE FLAGS                     |
|     |      | 1... .... |    | WPXRSV14     | "BIT0,,C'X'" RESERVED                                 |
|     |      | ..1. .... |    | WPXRSV15     | "BIT1,,C'X'" RESERVED                                 |
|     |      | ...1 .... |    | WPXRSV16     | "BIT2,,C'X'" RESERVED                                 |
|     |      | .... 1..  |    | WPXRSV17     | "BIT3,,C'X'" RESERVED                                 |
|     |      | .... .1.. |    | WPXRSV18     | "BIT4,,C'X'" RESERVED                                 |
|     |      | .... ..1. |    | WPXRSV19     | "BIT5,,C'X'" RESERVED                                 |
|     |      | .... ...1 |    | WPXRSV20     | "BIT6,,C'X'" RESERVED                                 |
|     |      | .... ...1 |    | WPXRSV21     | "BIT7,,C'X'" RESERVED                                 |
| 42  | (2A) | ADDRESS   | 2  | WPXPRTY      | MESSAGE'S PRIORITY                                    |
| 44  | (2C) | CHARACTER | 8  | WPXJOBID     | JOB ID                                                |
| 52  | (34) | CHARACTER | 8  | WPXJOBNM     | JOBNAME                                               |
| 60  | (3C) | CHARACTER | 8  | WPXKEY       | RETRIEVAL KEY                                         |
| 68  | (44) | ADDRESS   | 4  | WPXTOKN      | TOKEN FOR DOM                                         |
| 72  | (48) | ADDRESS   | 4  | WPXC�ID      | CONSOLE ID                                            |
| 76  | (4C) | CHARACTER | 8  | WPXSYSNA     | SYSTEM NAME                                           |
| 84  | (54) | CHARACTER | 8  | WPXC�NME     | CONSOLE NAME                                          |
| 92  | (5C) | ADDRESS   | 4  | WPXRCNA      | ADDRESS OF 12 BYTE FIELD FOR REPLYING CONSOLE NAME/ID |
| 96  | (60) | ADDRESS   | 4  | WPXCART      | ADDRESS OF CART                                       |
| 100 | (64) | ADDRESS   | 4  | WPXWSPRM     | ADDRESS OF WAIT STATE PARM LIST                       |
| 104 | (68) | ADDRESS   | 4  | WPXASCB      | ASCB ADDRESS                                          |
| 108 | (6C) | CHARACTER | 16 | WPXRVS30     | RESERVED                                              |
| 108 | (6C) | X'7C'     | 0  | WPXLEN       | "*-WPX" LENGTH OF THE WPX                             |
| 108 | (6C) | X'68'     | 0  | WPX2LEN      | "104" LENGTH OF VERSION 2 WPX                         |
| 108 | (6C) | X'7C'     | 0  | WPX4LEN      | "124" LENGTH OF VERSION 4 WPX                         |



## WPL Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| WPL      | 0          | 0         | WPLMSGTC | 4          | 20        |
| WPLADTXT | 4          |           | WPLMSGTD | 4          | 10        |
| WPLAREA  | 2          |           | WPLMSGTF | 4          | 4         |
| WPLDESC  | 0          |           | WPLMSGTY | 4          |           |
| WPLDESCA | 0          | 80        | WPLMSGT1 | 4          |           |
| WPLDESCB | 0          | 40        | WPLMSGT2 | 5          |           |
| WPLDESCC | 0          | 20        | WPLQID   | 6          |           |
| WPLDESCD | 0          | 10        | WPLRECB  | 4          |           |
| WPLDESCE | 0          | 8         | WPLRF    | 0          |           |
| WPLDESCF | 0          | 4         | WPLRLN   | 0          |           |
| WPLDESCG | 0          | 2         | WPLROUT  | 2          |           |
| WPLDESCH | 0          | 1         | WPLROUTA | 2          | 80        |
| WPLDESCI | 1          | 80        | WPLROUTB | 2          | 40        |
| WPLDESCJ | 1          | 40        | WPLROUTC | 2          | 20        |
| WPLDESCK | 1          | 20        | WPLROUTD | 2          | 10        |
| WPLDESCL | 1          | 10        | WPLROUTE | 2          | 8         |
| WPLDESCM | 1          | 8         | WPLROUTF | 2          | 4         |
| WPLDESC1 | 0          |           | WPLROUTG | 2          | 2         |
| WPLDESC2 | 1          |           | WPLROUTH | 2          | 1         |
| WPLFLGS  | 0          | 0         | WPLROUTI | 3          | 80        |
| WPLLGH   | 0          |           | WPLROUTJ | 3          | 40        |
| WPLLINES | 3          |           | WPLROUTK | 3          | 20        |
| WPLLPTXT | 1          |           | WPLROUTL | 3          | 10        |
| WPLLTF   | 0          |           | WPLROUTM | 3          | 8         |
| WPLLTF1  | 0          | 80        | WPLROUTN | 3          | 4         |
| WPLLTF2  | 1          |           | WPLROUTO | 3          | 2         |
| WPLMCSF  | 2          |           | WPLROUTP | 3          | 1         |
| WPLMCSFA | 2          | 80        | WPLROUT1 | 2          |           |
| WPLMCSFB | 2          | 40        | WPLROUT2 | 3          |           |
| WPLMCSFC | 2          | 20        | WPLRPTR  | 0          |           |
| WPLMCSFD | 2          | 10        | WPLRPTRA | 1          |           |
| WPLMCSFE | 2          | 8         | WPLRSV01 | 3          | 1         |
| WPLMCSFF | 2          | 4         | WPLRSV10 | 1          | 4         |
| WPLMCSFG | 2          | 2         | WPLRSV11 | 1          | 2         |
| WPLMCSFH | 2          | 1         | WPLRSV12 | 1          | 1         |
| WPLMCSFI | 3          | 80        | WPLRSV14 | 4          | 8         |
| WPLMCSFJ | 3          | 40        | WPLRSV15 | 4          | 2         |
| WPLMCSFK | 3          | 20        | WPLRSV16 | 4          | 1         |
| WPLMCSFL | 3          | 10        | WPLRSV17 | 0          | 8         |
| WPLMCSFM | 3          | 8         | WPLRSV18 | 0          | 4         |
| WPLMCSFN | 3          | 4         | WPLRSV19 | 0          | 2         |
| WPLMCSFO | 3          | 2         | WPLRSV20 | 0          | 1         |
| WPLMCSF1 | 2          |           | WPLRSV21 | 2          | 8         |
| WPLMCSF2 | 3          |           | WPLRSV22 | 2          | 4         |
| WPLML    | 0          | 0         | WPLRSV23 | 2          | 2         |
| WPLMLADT | 4          |           | WPLRSV24 | 2          | 1         |
| WPLMLEXL | 3          | 4         | WPLRSV25 | 5          | 80        |
| WPLMLLEN | 1          |           | WPLRSV26 | 5          | 40        |
| WPLMLLTA | 2          | 80        | WPLRSV27 | 5          | 20        |
| WPLMLLTB | 2          | 40        | WPLRSV28 | 5          | 10        |
| WPLMLLTC | 2          | 20        | WPLRSV29 | 5          | 8         |
| WPLMLLTD | 2          | 10        | WPLRSV30 | 5          | 4         |
| WPLMLLTF | 2          |           | WPLRSV31 | 5          | 2         |
| WPLMLLT1 | 2          |           | WPLRSV32 | 5          | 1         |
| WPLMLLT2 | 3          |           | WPLTXT   | 4          |           |
| WPLMLTXT | 4          |           | WPLTXTL  | 81         |           |
| WPLML0   | 0          |           | WPL31REP | 4          |           |
| WPLMSGTA | 4          | 80        | WPL31RF  | 0          | 0         |
| WPLMSGTB | 4          | 40        | WPL31RFG | 0          | 80        |
|          |            |           | WPL31RLN | 0          |           |
|          |            |           | WPL31RRP | 0          |           |
|          |            |           | WPX      | 0          | 0         |
|          |            |           | WPXACLW  | 6          | 10        |

## WPL Cross Reference

| Name      | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|-----------|------------|-----------|----------|------------|-----------|
| WPXASCB   | 68         |           | WPXRSV18 | 29         | 8         |
| WPXBUSY   | 4          | 80        | WPXRSV19 | 29         | 4         |
| WPXCART   | 60         |           | WPXRSV20 | 29         | 2         |
| WPXCNID   | 48         |           | WPXRSV21 | 29         | 1         |
| WPXCNM    | 4          | 2         | WPXRSV30 | 6C         |           |
| WPXCNNME  | 54         |           | WPXRSV4  | 15         | 8         |
| WPXCONN   | 4          | 10        | WPXRSV48 | 5          | 20        |
| WPXCONS   | 4          | 40        | WPXRSV49 | 5          | 10        |
| WPXCPFLG  | 6          |           | WPXRSV5  | 15         | 4         |
| WPXCPFL1  | 6          |           | WPXRSV50 | 5          | 8         |
| WPXCPFL2  | 7          |           | WPXRSV51 | 5          | 2         |
| WPXDESC   | 14         |           | WPXRSV52 | 5          | 1         |
| WPXDESCA  | 14         | 80        | WPXRSV56 | 6          | 2         |
| WPXDESCB  | 14         | 40        | WPXRSV57 | 6          | 1         |
| WPXDESCC  | 14         | 20        | WPXRSV6  | 15         | 2         |
| WPXDESCD  | 14         | 10        | WPXRSV60 | 7          | 80        |
| WPXDESCE  | 14         | 8         | WPXRSV61 | 7          | 40        |
| WPXDESCF  | 14         | 4         | WPXRSV62 | 7          | 20        |
| WPXDESCG  | 14         | 2         | WPXRSV63 | 7          | 10        |
| WPXDESCH  | 14         | 1         | WPXRSV64 | 7          | 8         |
| WPXDESCI  | 15         | 80        | WPXRSV65 | 7          | 4         |
| WPXDESCJ  | 15         | 40        | WPXRSV66 | 7          | 2         |
| WPXDESCK  | 15         | 20        | WPXRSV67 | 7          | 1         |
| WPXDESCL  | 15         | 10        | WPXRSV7  | 15         | 1         |
| WPXDESC1  | 14         |           | WPXRSV8  | 16         |           |
| WPXDESC2  | 15         |           | WPXRSV9  | 28         | 20        |
| WPXDOMI   | 4          | 20        | WPXR001  | 18         |           |
| WPXECBP   | C          |           | WPXR002  | 19         |           |
| WPXFLAGS  | 1          |           | WPXR003  | 1A         |           |
| WPXJOBID  | 2C         |           | WPXR004  | 1B         |           |
| WPXJOBNM  | 34         |           | WPXR005  | 1C         |           |
| WPXKEY    | 3C         |           | WPXR006  | 1D         |           |
| WPXLEN    | 6C         | 7C        | WPXR007  | 1E         |           |
| WPXLNGTH  | 3          |           | WPXR008  | 1F         |           |
| WPXMCSF1  | 4          |           | WPXR009  | 20         |           |
| WPXMCS1   | 4          |           | WPXR01   | 18         | 80        |
| WPXMCS2   | 5          |           | WPXR010  | 21         |           |
| WPXMPPFR  | 1          | 40        | WPXR011  | 22         |           |
| WPXMPPSP  | 1          | 80        | WPXR012  | 23         |           |
| WPXMMSGTA | 28         | 80        | WPXR013  | 24         |           |
| WPXMMSGTB | 28         | 40        | WPXR014  | 25         |           |
| WPXMMSGTF | 28         | 4         | WPXR015  | 26         |           |
| WPXMMSGTY | 28         |           | WPXR016  | 27         |           |
| WPXMMSGT1 | 28         |           | WPXR02   | 18         | 40        |
| WPXMMSGT2 | 29         |           | WPXR03   | 18         | 20        |
| WPXNLCK   | 6          | 20        | WPXR04   | 18         | 10        |
| WPXNMOD   | 1          | 20        | WPXR05   | 18         | 8         |
| WPXNOHO   | 6          | 40        | WPXR06   | 18         | 4         |
| WPXPRI0   | 4          | 4         | WPXR07   | 18         | 2         |
| WPXPRTY   | 2A         |           | WPXR08   | 18         | 1         |
| WPXQNLV   | 6          | 4         | WPXR09   | 19         | 80        |
| WPXRCNA   | 5C         |           | WPXR10   | 19         | 40        |
| WPXROUT   | 18         |           | WPXR11   | 19         | 20        |
| WPXRPBUF  | 8          |           | WPXR12   | 19         | 10        |
| WPXRPYLN  | 2          |           | WPXR13   | 19         | 8         |
| WPXRROK   | 6          | 80        | WPXR14   | 19         | 4         |
| WPXRSV1A  | 5          | 40        | WPXR15   | 19         | 2         |
| WPXRSV10  | 28         | 10        | WPXR16   | 19         | 1         |
| WPXRSV11  | 28         | 8         | WPXSEQN  | 10         |           |
| WPXRSV12  | 28         | 2         | WPXSPVD  | 6          | 8         |
| WPXRSV13  | 28         | 1         | WPXSQID  | 11         |           |
| WPXRSV14  | 29         | 80        | WPXSYNC  | 5          | 4         |
| WPXRSV15  | 29         | 40        | WPXSYSID | 10         |           |
| WPXRSV16  | 29         | 20        | WPXSYSNA | 4C         |           |
| WPXRSV17  | 29         | 10        | WPXS220  | 0          | 1         |

| <b>Name</b> | <b>Hex<br/>Offset</b> | <b>Hex<br/>Value</b> |
|-------------|-----------------------|----------------------|
| WPXS410     | 0                     | 2                    |
| WPXS422     | 0                     | 3                    |
| WPXS603     | 0                     | 4                    |
| WPXTOKN     | 44                    |                      |
| WPXTXTAD    | 5                     | 80                   |
| WPXVERN     | 0                     | 4                    |
| WPXVRSN     | 0                     |                      |
| WPXWSPRM    | 64                    |                      |
| WPXWTOR     | 4                     | 8                    |
| WPX2LEN     | 6C                    | 68                   |
| WPX4LEN     | 6C                    | 7C                   |



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## WQE Programming Interface information

Programming Interface information

WQE

End of Programming Interface information

## WQE Heading Information

**Common Name:** WRITE-TO-OPERATOR QUEUE ELEMENT (WQE) DEFINITIONS  
**Macro ID:** IHAWQE  
**DSECT Name:** WQE, WQEMAJ, WQEMIN  
**Owning Component:** COMMUNICATIONS TASK (SC1CK)  
**Eye-Catcher ID:** NONE  
**Storage Attributes:** Subpool: 229(CONSOLE PRIVATE AFTER SVC 35 PROCESSING), 239(WTO BRANCH ENTRY), 0(WTO/R ISSUERS SPACE DURING SVC 35 PROCESSING)  
 Key: 0  
 Residency: < 16 M  
**Size:** 352 BYTES  
**Created by:** IEAVH600, IEAVM600, IEAVBWTO  
**Pointed to by:** ORERWQE - ORE DATA AREA  
 SSWTWQE - SSOB DATA AREA ( MAJOR WQE )  
 SSWTMIN - SSOB DATA AREA ( MINOR WQE )  
 UCMWTOQ - UCM DATA AREA ( FIRST WQE )  
 UCMWQEND - UCM DATA AREA ( LAST WQE )  
 CQEWQE - CQE DATA AREA  
 WQELKP - WQE DATA AREA ( NEXT WQE )  
 WMNMNX2 - MINOR WQE DATA AREA ( NEXT MINOR WQE )  
 WMJMMIN - MAJOR WQE DATA AREA ( FIRST MINOR WQE )  
**Serialization:** LOCAL AND CMS LOCKS  
**Function:** A WQE IS CREATED FOR EVERY WTO/WTOR REQUEST.  
 IT CONTAINS INFORMATION ABOUT THE WTO/WTOR ISSUER, ROUTING INSTRUCTIONS AND MESSAGE TEXT.

## WQE Map

| Offsets |      |            |     |            |                                                                                                              |
|---------|------|------------|-----|------------|--------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                  |
| 0       | (0)  | STRUCTURE  | 0   | WQE        |                                                                                                              |
| 0       | (0)  | ADDRESS    | 4   | WQELKP     | LINKAGE POINTER                                                                                              |
| 4       | (4)  | SIGNED     | 4   | WQENBR (0) | MESSAGE LENGTH (CCW COUNT FIELD)                                                                             |
| 4       | (4)  | SIGNED     | 2   |            | NOT TO BE USED                                                                                               |
| 6       | (6)  | SIGNED     | 2   | WQETXTLN   | ACTUAL TEXT LENGTH                                                                                           |
| 8       | (8)  | SIGNED     | 2   | WQERTCT    | ROUTED WQE COUNT                                                                                             |
| 10      | (A)  | SIGNED     | 2   | WQEUSE     | WQE USE COUNT                                                                                                |
| 12      | (C)  | CHARACTER  | 1   | WQEPAD     | - BLANK Y02710                                                                                               |
| 13      | (D)  | CHARACTER  | 8   | WQETS      | - TIME STAMP Y02710                                                                                          |
| 21      | (15) | CHARACTER  | 1   | WQEPAD1    | - BLANK Y02710                                                                                               |
| 22      | (16) | CHARACTER  | 8   | WQEJOBNM   | JOBNAME INSERTED BY SUBSYSTEM Y02710                                                                         |
| 30      | (1E) | CHARACTER  | 1   | WQEPAD2    | BLANK Y02710                                                                                                 |
| 31      | (1F) | CHARACTER  | 128 | WQETXT (0) | - MESSAGE TEXT (MAX 128 BYTES)                                                                               |
| 31      | (1F) | CHARACTER  | 127 |            |                                                                                                              |
| 158     | (9E) | CHARACTER  | 1   | WQETXTL    | - LAST BYTE OF MESSAGE TEXT                                                                                  |
| 159     | (9F) | CHARACTER  | 1   | WQEPAD3    | - EXTRA BYTE SO REMAINING FIELDS ARE ON A WORD BOUNDARY - note, this field was used in OW26748, do not reuse |
| 160     | (A0) | BITSTRING  | 1   | WQEXA      | - DISPOSITION FLAGS                                                                                          |
|         |      | 1... ....  |     | WQEPURGE   | "BIT0" - PURGE THIS WQE                                                                                      |
|         |      | .1.. ....  |     | WQEQFHC    | "BIT1" - QUEUE FOR HARD COPY                                                                                 |
|         |      | ..1. ....  |     | WQEORE     | "BIT2" - ORE EXISTS FOR THIS WQE Y02710                                                                      |
|         |      | ...1 ....  |     | WQEQDFHC   | "BIT3" - QUEUED FOR HARD COPY                                                                                |
|         |      | .... 1..   |     | WQEWTOR    | "BIT4" - WQE CREATED FOR WTOR                                                                                |
|         |      | .... .1..  |     | WQEDOM     | "BIT5" - MESSAGE TO BE DOM'ED Y02710                                                                         |
|         |      | .... ..1.  |     | WQESUSP    | "BIT6" - PROCESSING TEMPORARILY SUSPENDED Y02710                                                             |
|         |      | .... ...1  |     | WQEAUTH    | "BIT7" - MESSAGE ISSUED BY AUTHORIZED USER Y02710                                                            |
| 161     | (A1) | CHARACTER  | 2   | WQEASID    | - ASID OF USER Y02710                                                                                        |

| Offsets |      |                                                                                                                   |     |                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------|------|-------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value                                                                                                        | Len | Name (Dim)                                                                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 163     | (A3) | BITSTRING<br>1... ....<br>.1.. ....<br>..1. ....<br>...1 ....<br>.... 1...<br>.... .1..<br>.... ..1.<br>.... ...1 | 1   | WQEAVAIL<br>WQEBUFA<br>WQEBUFB<br>WQEBUFC<br>WQEBUFD<br>WQEBUFE<br>WQEBUFF<br>WQEBUFG<br>WQEMTRCD            | - BUFFER STATUS FLAGS<br>"BIT0" - BUFFER IS FREE<br>"BIT1" - BUFFER IS IN USE<br>"BIT2" - READY FOR HARDCOPY Y02710<br>"BIT3" - BUFFER OBTAINED DYNAMICALLY<br>"BIT4" - BUFFER HAS BEEN SERVICED<br>"BIT5" - TPUT - TO DO Y02710<br>"BIT6" - WQE SUPPRESSED<br>"BIT7" - BUFFER HAS BEEN MASTER TRACED                                                                                                                                                  |
| 164     | (A4) | SIGNED                                                                                                            | 4   | WQETCB                                                                                                       | - POINTER TO USER'S TCB Y02710                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 168     | (A8) | SIGNED                                                                                                            | 4   | WQESEQ# (0)                                                                                                  | WTO SEQUENCE NUMBER (DOM/CONNECT ID)                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 168     | (A8) | SIGNED                                                                                                            | 1   | WQESYSID                                                                                                     | SYSTEM ID                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 169     | (A9) | SIGNED                                                                                                            | 3   | WQESEQN                                                                                                      | 24-BIT SEQUENCE NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 172     | (AC) | BITSTRING                                                                                                         | 2   | WQEMCSF (0)                                                                                                  | - MCS FLAGS                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 172     | (AC) | BITSTRING<br>1... ....<br>.1.. ....<br>..1. ....<br>...1 ....<br>.... 1...<br>.... .1..<br>.... ..1.<br>.... ...1 | 1   | WQEMCSF1<br>WQEMCSA<br>WQEMCSB<br><br>WQEMCSC<br>WQEMCSD<br>WQEMCSE<br>WQEMCSFF<br>WQEMCSG<br>WQEMCSH        | - FIRST BYTE OF MCS FLAGS<br>"BIT0" - ROUTING AND DESCRIPTOR CODE FIELDS EXIST<br>"BIT1" - QUEUE AT LEAST TO UCM ENTRY PASSED IN REG 0 (IF THE CONSOLE IS ACTIVE)<br>"BIT2" - COMMAND RESPONSE (INCLUDES HARD COPY)<br>"BIT3" - MESSAGE TYPE FLAGS FIELD EXISTS<br>"BIT4" - THIS WTO IS A REPLY TO A WTOR<br>"BIT5" - BROADCAST TO ACTIVE CONSOLES<br>"BIT6" - QUEUE FOR HARD COPY ONLY<br>"BIT7" - QUEUE UNCONDITIONALLY TO UCM ENTRY PASSED IN REG 0 |
| 173     | (AD) | BITSTRING<br>1... ....<br>.1.. ....<br>..1. ....<br>...1 ....<br>.... 1...<br>.... .1..<br>.... ..1.<br>.... ...1 | 1   | WQEMCSF2<br>WQEMCSI<br>WQEMCSJ<br>WQEMCSK<br><br>WQEMCSL<br>WQEMCSM<br>WQEMCSN<br><br>WQEMCSO<br>WQEMCSP     | - SECOND BYTE OF MCS FLAGS<br>"BIT0" - NO TIME STAMP<br>"BIT1" - MUST BE ZERO<br>"BIT2" PRIMARY SUBSYSTEM USE ONLY: JES3: DO NOT LOG MINOR WQES IF THE MAJOR IS NOT HARDCOPIED JES2: NOT USED<br>"BIT3" EXTENDED WPL FORMAT (WPX) EXISTS<br>"BIT4" - THE MESSAGE IS AN OPERATOR COMMAND<br>"BIT5" - BYPASS QUEUING TO HARD COPY (FOR USERS OPERATING IN PROTECT KEY 0 ONLY)<br>"BIT6" WQEBLK KEYWORD SPECIFIED<br>"BIT7" RESERVED                      |
| 174     | (AE) | BITSTRING                                                                                                         | 2   | WQEMSGTP (0)                                                                                                 | - MESSAGE TYPE FLAGS                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 174     | (AE) | BITSTRING<br>1... ....<br>.1.. ....<br>..1. ....<br>...1 ....<br>.... 1...<br>.... .1..<br>.... ..1.<br>.... ...1 | 1   | WQEMSGT1<br>WQEMSGTA<br>WQEMSGTB<br>WQEMSGTC<br>WQEMSGTD<br><br>WQERSV13<br>WQEMSGTF<br>WQERSV14<br>WQERSV15 | - FIRST BYTE OF MESSAGE TYPE FLAGS<br>"BIT0" - DISPLAY JOB NAMES<br>"BIT1" - DISPLAY STATUS<br>"BIT2" - MONITOR ACTIVE<br>"BIT3" - INDICATES EXISTENCE OF QID FIELD IN WPL (AOS/1) ICB468<br>"BIT4,,C'X'" - RESERVED<br>"BIT5" - MONITOR SESS<br>"BIT6,,C'X'" - RESERVED<br>"BIT7,,C'X'" - RESERVED                                                                                                                                                    |
| 175     | (AF) | BITSTRING                                                                                                         | 1   | WQEMSGT2                                                                                                     | - SECOND BYTE OF MESSAGE TYPE FLAGS                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 176     | (B0) | BITSTRING                                                                                                         | 2   | WQEROUT (0)                                                                                                  | - ROUTING CODES THESE CODES INDICATE THE FUNCTIONAL AREA OR AREAS TO WHICH A MESSAGE IS TO BE SENT.                                                                                                                                                                                                                                                                                                                                                    |
| 176     | (B0) | BITSTRING<br>1... ....<br>.1.. ....<br>..1. ....<br>...1 ....<br>.... 1...<br>.... .1..<br>.... ..1.<br>.... ...1 | 1   | WQEROUT1<br>WQEROUTA<br>WQEROUTB<br>WQEROUTC<br>WQEROUTD<br>WQEROUTE<br>WQEROUTF<br>WQEROUTG<br>WQEROUTH     | - 1ST BYTE OF ROUTING CODES<br>"BIT0" - MASTER CONSOLE<br>"BIT1" - MASTER CONSOLE INFORMATIONAL<br>"BIT2" - TAPE POOL<br>"BIT3" - DIRECT ACCESS POOL<br>"BIT4" - TAPE LIBRARY<br>"BIT5" - DISK LIBRARY<br>"BIT6" - UNIT RECORD POOL<br>"BIT7" - TELEPROCESSING CONTROL                                                                                                                                                                                 |
| 177     | (B1) | BITSTRING<br>1... ....<br>.1.. ....                                                                               | 1   | WQEROUT2<br>WQEROUTI<br>WQEROUTJ                                                                             | - 2ND BYTE OF ROUTING CODES<br>"BIT0" - SYSTEM SECURITY<br>"BIT1" - SYSTEM/ERROR MAINTENANCE                                                                                                                                                                                                                                                                                                                                                           |

## WQE Map

| Offsets |      |            |     |              |                                                                                                                                                                                                                 |
|---------|------|------------|-----|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                                                                                                                     |
|         |      | .1. ....   |     | WQEROUTK     | "BIT2" - PROGRAMMER INFORMATION                                                                                                                                                                                 |
|         |      | ...1 ....  |     | WQEROUTL     | "BIT3" - EMULATOR INFORMATION                                                                                                                                                                                   |
|         |      | .... 1...  |     | WQEROUTM     | "BIT4" - USER ROUTING CODE                                                                                                                                                                                      |
|         |      | .... .1..  |     | WQEROUTN     | "BIT5" - USER ROUTING CODE                                                                                                                                                                                      |
|         |      | .... .1.   |     | WQEROUTO     | "BIT6" - USER ROUTING CODE                                                                                                                                                                                      |
|         |      | .... ...1  |     | WQEROUTP     | "BIT7" USER ROUTING CODE                                                                                                                                                                                        |
| 178     | (B2) | CHARACTER  | 1   | WQECHAR1     | 1ST CHARACTER OF TEXT                                                                                                                                                                                           |
| 179     | (B3) | BITSTRING  | 1   | WQEFLG3      | - MISCELLANEOUS FLAGS                                                                                                                                                                                           |
|         |      | 1... ....  |     | WQEDLVRD     | "BIT0" - WQE HAS BEEN DELIVERED TO A CONSOLE ON THIS SYSTEM                                                                                                                                                     |
|         |      | .1.. ....  |     | WQEDNDWQ     | "BIT1" - DO NOT DELETE WTOR UNTIL THIS BIT IS OFF                                                                                                                                                               |
|         |      | .1. ....   |     | WQENSYL      | "BIT2" - DO NOT SEND THIS MESSAGE TO SYSLOG                                                                                                                                                                     |
|         |      | ...1 ....  |     | WQEJ3B1      | "BIT3" - BIT FOR USE BY JES3 ONLY                                                                                                                                                                               |
|         |      | .... 1...  |     | WQEJ3B2      | "BIT4" - BIT FOR USE BY JES3 ONLY                                                                                                                                                                               |
| 180     | (B4) | SIGNED     | 1   | WQEUCMID     | - UNIQUE UCM ENTRY ID                                                                                                                                                                                           |
| 181     | (B5) | BITSTRING  | 1   | WQEFLG1      | - MISCELLANEOUS FLAGS                                                                                                                                                                                           |
|         |      | 1... ....  |     | WQEFLG11     | "BIT0" - THIS MESSAGE WAS PROCESSED WHILE MPF WAS ACTIVE AND HARDCOPY WAS AVAILABLE                                                                                                                             |
|         |      | .1.. ....  |     | WQERETAN     | "BIT1" - MSG IS TO BE RETAINED BY AMRF                                                                                                                                                                          |
|         |      | .1. ....   |     | WQENMOD      | "BIT2" THE CHARACTERISTICS OF THE MESSAGE MAY NOT BE MODIFIED BY THE PRIMARY SUBSYSTEM                                                                                                                          |
|         |      | ...1 ....  |     | WQESQMC      | "BIT3" ACTION MESSAGE NOT QUEUED TO ANY CONSOLE - DEFAULT TO MASTER CONSOLE                                                                                                                                     |
|         |      | .... 1...  |     | WQENOJLG     | "BIT4" SUPPRESS FROM JOB LOG                                                                                                                                                                                    |
|         |      | .... .1..  |     | WQEAUTOV     | "BIT5" INDICATES MPF AUTO SUPPORTED                                                                                                                                                                             |
|         |      | .... .1.   |     | WQEPPNA      | "BIT6" - PROBLEM PROGRAM NONACTION MSG                                                                                                                                                                          |
|         |      | .... ...1  |     | WQERISS      | "BIT7" - REISSUED MESSAGE                                                                                                                                                                                       |
| 182     | (B6) | CHARACTER  | 2   | WQERPYID     | - REPLY ID Y02710                                                                                                                                                                                               |
| 184     | (B8) | BITSTRING  | 2   | WQEDESCD (0) | - DESCRIPTOR CODES                                                                                                                                                                                              |
| 184     | (B8) | BITSTRING  | 1   | WQEDC1       | - FIRST BYTE OF DESCRIPTOR CODES                                                                                                                                                                                |
|         |      | 1... ....  |     | WQEDCA       | "BIT0" - SYSTEM FAILURE MESSAGE                                                                                                                                                                                 |
|         |      | .1. ....   |     | WQEDCB       | "BIT1" - IMMEDIATE ACTION REQUIRED MESSAGE                                                                                                                                                                      |
|         |      | .1. ....   |     | WQEDCC       | "BIT2" - EVENTUAL ACTION REQUIRED MESSAGE                                                                                                                                                                       |
|         |      | ...1 ....  |     | WQEDCD       | "BIT3" - SYSTEM STATUS MESSAGE                                                                                                                                                                                  |
|         |      | .... 1...  |     | WQEDCE       | "BIT4" - IMMEDIATE COMMAND RESPONSE MESSAGE                                                                                                                                                                     |
|         |      | .... .1..  |     | WQEDCF       | "BIT5" - JOB STATUS MESSAGE                                                                                                                                                                                     |
|         |      | .... .1.   |     | WQEDCG       | "BIT6" APPLICATION PROGRAM/PROCESSOR MESSAGE, OR DELETE AT TASK TERMINATION                                                                                                                                     |
|         |      | .... ...1  |     | WQEDCH       | "BIT7" - OUT-OF-LINE MESSAGE                                                                                                                                                                                    |
| 185     | (B9) | BITSTRING  | 1   | WQEDC2       | - SECOND BYTE OF DESCRIPTOR CODES                                                                                                                                                                               |
|         |      | 1... ....  |     | WQEDCI       | "BIT0" OPERATOR REQUEST                                                                                                                                                                                         |
|         |      | .1. ....   |     | WQEDCJ       | "BIT1" DYNAMIC STATUS DISPLAY                                                                                                                                                                                   |
|         |      | .1. ....   |     | WQEDCK       | "BIT2" - CRITICAL EVENTUAL ACTION MSG - DESCRIPTOR CODE 11                                                                                                                                                      |
|         |      | ...1 ....  |     | WQEDCL       | "BIT3" - IMPORTANT INFORMATION MESSAGE                                                                                                                                                                          |
|         |      | .... 1...  |     | WQEDCM       | "BIT4" - PREVIOUSLY AUTOMATED                                                                                                                                                                                   |
|         |      | .... .1..  |     | WQERSV23     | "BIT5,,C'X" - RESERVED                                                                                                                                                                                          |
|         |      | .... .1.   |     | WQERSV24     | "BIT6,,C'X" - RESERVED                                                                                                                                                                                          |
|         |      | .... ...1  |     | WQERSV25     | "BIT7,,C'X" - RESERVED                                                                                                                                                                                          |
| 186     | (BA) | BITSTRING  | 1   | WQERSV26     | - RESERVED for 3rd byte of descriptor codes                                                                                                                                                                     |
| 187     | (BB) | CHARACTER  | 1   | WQEMCST      | Count of MCS-only consoles to which a message is queued                                                                                                                                                         |
| 188     | (BC) | SIGNED     | 4   | WQEJSTCB     | - ADDRESS OF JOB STEP TCB Y02710                                                                                                                                                                                |
| 192     | (C0) | BITSTRING  | 1   | WQEVRSN      | VERSION LEVEL                                                                                                                                                                                                   |
| 192     | (C0) | X'1'       | 0   | WQESP211     | "1" JBB2110 VERSION LEVEL                                                                                                                                                                                       |
| 192     | (C0) | X'2'       | 0   | WQESP220     | "2" JBB2220 VERSION LEVEL                                                                                                                                                                                       |
| 192     | (C0) | X'3'       | 0   | WQESP410     | "3" HBB4410 VERSION LEVEL                                                                                                                                                                                       |
| 192     | (C0) | X'4'       | 0   | WQESP422     | "4" JBB4422 VERSION LEVEL                                                                                                                                                                                       |
| 192     | (C0) | X'5'       | 0   | WQESP440     | "5" HBB5510 VERSION LEVEL                                                                                                                                                                                       |
| 192     | (C0) | X'8'       | 0   | WQE32623     | "8" OW32623 version level which means a) all diagnostics flags from OW26748 have been removed b) The byte originally reserved for the 4th byte of descriptor codes is now the routed to only-MCS consoles count |
| 192     | (C0) | X'8'       | 0   | WQEVRID      | "WQE32623" THE CURRENT VERSION LEVEL                                                                                                                                                                            |
| 193     | (C1) | BITSTRING  | 1   | WQEFLG2      | MISC FLAGS BYTE 2                                                                                                                                                                                               |



| Offsets |      | Type/Value | Len | Name (Dim)   | Description                                                                                                     |
|---------|------|------------|-----|--------------|-----------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  |            |     |              |                                                                                                                 |
|         |      | 1... ....  |     | WQEHNDL      | "BIT0" THIS MSG WILL BE DISPLAYED BY ANOTHER CONSOLE HANDLER. DO NOT FORCE MSG TO MASTER CONSOLE IF NOT ROUTED. |
|         |      | .1.. ....  |     | WQERSV98     | "BIT1" Must be unused in WQE mapping                                                                            |
|         |      | ..1. ....  |     | WQEFORN      | "BIT2" FOREIGN WQE                                                                                              |
|         |      | ...1 ....  |     | WQETRANS     | "BIT3" WQE HAS BEEN TRANSPORTED TO ANOTHER SYSTEM                                                               |
|         |      | .... 1..   |     | WQESUPSJ     | "BIT4" ON = DON'T DISPLAY SYSTEM NAME OR JOB NAME                                                               |
|         |      | .... .1..  |     | WQEQSYS      | "BIT5" ON = QUEUED TO A CONSOLE ON ANOTHER SYSTEM IN THE SYSPLEX                                                |
|         |      | .... ..1.  |     | WQEQEXT      | "BIT6" ON = QUEUED TO AN EXTENDED CLASS                                                                         |
|         |      | .... ...1  |     | WQEQMCS      | "BIT7" ON = QUEUED TO AN MCS CONSOLE                                                                            |
| 194     | (C2) | CHARACTER  | 2   | WQEMCSEF (0) | EXTENDED MCS FLAGS                                                                                              |
| 194     | (C2) | BITSTRING  | 1   | WQEMCSE1     | FIRST BYTE                                                                                                      |
|         |      | 1... ....  |     | WQEEBUSY     | "BIT0" RETURN WITH BUSY RETURN CODE IF BUFFER LIMITATIONS EXCEEDED                                              |
|         |      | .1.. ....  |     | WQEECONS     | "BIT1" FOUR-BYTE CONSOLE ID SPECIFIED                                                                           |
|         |      | ..1. ....  |     | WQEEDOMI     | "BIT2" DOM ID WAS SPECIFIED                                                                                     |
|         |      | ...1 ....  |     | WQEECONN     | "BIT3" CONNECT ID WAS SPECIFIED                                                                                 |
|         |      | .... 1..   |     | WQEEWTOR     | "BIT4" WTO WITH EXTENDED PARAMETER LIST                                                                         |
|         |      | .... .1..  |     | WQEEPRIO     | "BIT5" PRIORITY WAS SPECIFIED                                                                                   |
|         |      | .... ..1.  |     | WQECNM       | "BIT6" CONSOLE NAME SPECIFIED                                                                                   |
| 195     | (C3) | BITSTRING  | 1   | WQEMCSE2     | SECOND BYTE OF EXT MCS FLAGS                                                                                    |
|         |      | 1... ....  |     | WQEETXTA     | "BIT0" UNUSED IN WQE - TEXT ADDRESS PARM SPECIFIED ON WTO MACRO                                                 |
|         |      | .1.. ....  |     | WQERSV99     | "BIT1" RESERVED                                                                                                 |
|         |      | ..1. ....  |     | WQEEBCS      | "BIT2" RESERVED                                                                                                 |
|         |      | ...1 ....  |     | WQEEIDBC     | "BIT3" RESERVED                                                                                                 |
|         |      | .... 1..   |     | WQERSV1B     | "BIT4" RESERVED                                                                                                 |
|         |      | .... .1..  |     | WQEESYNC     | "BIT5" PROCESS SYNCHRONOUS WITH RESPECT TO THE CALLER                                                           |
|         |      | .... ..1.  |     | WQERSV1C     | "BIT6" RESERVED                                                                                                 |
|         |      | .... ...1  |     | WQERSV1D     | "BIT7" RESERVED                                                                                                 |
| 196     | (C4) | CHARACTER  | 8   | WQESYSNM     | THE NAME OF THE SYSTEM ON WHICH THIS MESSAGE WAS ISSUED                                                         |
| 204     | (CC) | CHARACTER  | 5   | WQEDATE      | DATE WTO ISSUED                                                                                                 |
| 209     | (D1) | CHARACTER  | 3   | WQETS2 (0)   | TENTHS AND HUNDREDTHS OF A SECOND                                                                               |
| 209     | (D1) | CHARACTER  | 1   | WQEPER3      | DECIMAL POINT IN TIME                                                                                           |
| 210     | (D2) | CHARACTER  | 2   | WQETS2TH     | TENTHS AND HUNDREDTHS OF A SECOND                                                                               |
| 212     | (D4) | CHARACTER  | 4   | WQEXMOD (0)  | COPY OF REQUEST FLAGS (CTXTRFLG) FROM THE WTO USER EXIT INTERFACE                                               |
| 212     | (D4) | CHARACTER  | 3   | WQERFLGS (0) | COMM TASK USER EXIT REQUESTS                                                                                    |
| 212     | (D4) | BITSTRING  | 1   | WQERFB1      | REQUEST FLAGS BYTE ONE                                                                                          |
|         |      | 1... ....  |     | WQERCMT      | "BIT0" CHANGE THE MESSAGE TEXT                                                                                  |
|         |      | .1.. ....  |     | WQERCRC      | "BIT1" CHANGE THE ROUTING CODE(S)                                                                               |
|         |      | ..1. ....  |     | WQERCDC      | "BIT2" CHANGE THE DESCRIPTOR CODE(S)                                                                            |
|         |      | ...1 ....  |     | WQERQPC      | "BIT3" QUEUE TO A PARTICULAR ACTIVE CONSOLE                                                                     |
|         |      | .... 1..   |     | WQERQUN      | "BIT4" QUEUE TO A PARTICULAR CONSOLE UNCONDITIONALLY                                                            |
|         |      | .... .1..  |     | WQERQRC      | "BIT5" QUEUE BY ROUTING CODES ONLY                                                                              |
|         |      | .... ..1.  |     | WQERCCN      | "BIT6" CHANGE THE CONSOLE ID                                                                                    |
|         |      | .... ...1  |     | WQERPML      | "BIT7" PROCESS MINOR LINES                                                                                      |
| 213     | (D5) | BITSTRING  | 1   | WQERFB2      | REQUEST FLAGS BYTE TWO                                                                                          |
|         |      | 1... ....  |     | WQERDTM      | "BIT0" DELETE THE MESSAGE                                                                                       |
|         |      | .1.. ....  |     | WQEROMS      | "BIT1" OVERRIDE MPF SUPPRESSION                                                                                 |
|         |      | ..1. ....  |     | WQERFHC      | "BIT2" FORCE HARDCOPY                                                                                           |
|         |      | ...1 ....  |     | WQERNHC      | "BIT3" FORCE NO HARDCOPY                                                                                        |
|         |      | .... 1..   |     | WQERHCO      | "BIT4" FORCE HARDCOPY ONLY                                                                                      |
|         |      | .... .1..  |     | WQERBCA      | "BIT5" BROADCAST MESSAGE TO ACTIVE CONSOLES                                                                     |
|         |      | .... ..1.  |     | WQERBCN      | "BIT6" DO NOT BROADCAST MESSAGE TO ACTIVE CONSOLES                                                              |
|         |      | .... ...1  |     | WQERNRT      | "BIT7" AMRF IS NOT TO RETAIN THIS MSG                                                                           |
| 214     | (D6) | BITSTRING  | 1   | WQERFB3      | REQUEST FLAGS BYTE THREE                                                                                        |
|         |      | 1... ....  |     | WQERRET      | "BIT0" AMRF IS TO RETAIN THIS MSG                                                                               |

# WQE Map

| Offsets |      |            |     |             |                                                                  |
|---------|------|------------|-----|-------------|------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)  | Description                                                      |
|         |      | .1.. ....  |     | WQERCKY     | "BIT1" CHANGE THE RETRIEVAL KEY                                  |
|         |      | .1. ....   |     | WQERCFC     | "BIT2" CHANGE THE 4-BYTE CONSOLE ID                              |
|         |      | ...1 ....  |     | WQERCMF     | "BIT3" CHANGE THE MESSAGE TYPE FLAGS                             |
|         |      | .... 1..   |     | WQERANO     | "BIT4" AUTOMATION IS NOT REQUIRED                                |
|         |      | .... .1..  |     | WQERAYS     | "BIT5" AUTOMATION IS REQUIRED AND/OR AUTOMATION<br>TOKEN UPDATED |
|         |      | .... ..1.  |     | WQEQHCO     | "BIT6" MESSAGE ISSUED HARDCOPY ONLY                              |
|         |      | .... ...1  |     | WQEHUD      | "BIT7" UD TO HARDCOPY FLAG                                       |
| 215     | (D7) | BITSTRING  | 1   | WQESUPB     | SUPPRESSION BYTE                                                 |
|         |      | 1.. ....   |     | WQESNSV     | "BIT0" NOT SERVICED BY ANY WTO USER EXIT ROUTINE                 |
|         |      | .1. ....   |     | WQESEER     | "BIT1" ESTAE ERROR IN IEAVX600                                   |
|         |      | .1. ....   |     | WQESNSI     | "BIT2" NOT SERVICED BECAUSE OF AN INCOMPATIBLE<br>REQUEST        |
|         |      | ...1 ....  |     | WQESAUT     | "BIT3" INDICATE AUTOMATION SPECIFIED                             |
|         |      | .... 1..   |     | WQESQED     | "BIT4" NOT QUEUED TO ANY CONSOLE                                 |
|         |      | .... .1..  |     | WQESSSI     | "BIT5" SUPPRESSED BY A SUBSYSTEM                                 |
|         |      | .... ..1.  |     | WQESWTO     | "BIT6" SUPPRESSED BY A WTO USER EXIT ROUTINE                     |
|         |      | .... ...1  |     | WQESMPF     | "BIT7" SUPPRESSED BY MPF                                         |
| 216     | (D8) | SIGNED     | 2   | WQEMLVL (0) | MESSAGE LEVEL MASK FOR QUEUING                                   |
| 216     | (D8) | BITSTRING  | 1   | WQEML1      | FIRST BYTE OF LEVEL INDICATOR                                    |
|         |      | 1.. ....   |     | WQEMLR      | "BIT0" WTOR                                                      |
|         |      | .1. ....   |     | WQEMLIA     | "BIT1" IMMEDIATE ACTION MESSAGE                                  |
|         |      | .1. ....   |     | WQEMLCE     | "BIT2" CRITICAL EVENTUAL ACTION MESSAGE                          |
|         |      | ...1 ....  |     | WQEMLE      | "BIT3" EVENTUAL ACTION MESSAGE                                   |
|         |      | .... 1..   |     | WQEMLI      | "BIT4" INFORMATIONAL MESSAGE                                     |
|         |      | .... ..1.  |     | WQEMLBC     | "BIT5" BROADCAST MESSAGE                                         |
| 217     | (D9) | BITSTRING  | 1   | WQEML2      | RESERVED                                                         |
| 218     | (DA) | SIGNED     | 2   | WQELENG     | WQE SIZE                                                         |
| 220     | (DC) | SIGNED     | 4   | WQEDSQN     | UNIVERSAL DISPLAY SEQUENCE NUMBER                                |
| 224     | (E0) | BITSTRING  | 16  | WQEERC (0)  | EXTENDED ROUTING CODES                                           |
| 224     | (E0) | BITSTRING  | 1   | WQEERC1     | BYTE 1 - EXTENDED ROUTING CODES                                  |
|         |      | 1.. ....   |     | WQERC1      | "BIT0" MASTER CONSOLE                                            |
|         |      | .1. ....   |     | WQERC2      | "BIT1" MASTER CONSOLE INFORMATIONAL                              |
|         |      | .1. ....   |     | WQERC3      | "BIT2" TAPE POOL                                                 |
|         |      | ...1 ....  |     | WQERC4      | "BIT3" DIRECT ACCESS POOL                                        |
|         |      | .... 1..   |     | WQERC5      | "BIT4" TAPE LIBRARY                                              |
|         |      | .... .1..  |     | WQERC6      | "BIT5" DISK LIBRARY                                              |
|         |      | .... ..1.  |     | WQERC7      | "BIT6" UNIT RECORD POOL                                          |
|         |      | .... ...1  |     | WQERC8      | "BIT7" TELEPROCESSING CONTROL                                    |
| 225     | (E1) | BITSTRING  | 1   | WQEERC2     | BYTE 2 - EXTENDED ROUTING CODES                                  |
|         |      | 1.. ....   |     | WQERC9      | "BIT0" SYSTEM SECURITY                                           |
|         |      | .1. ....   |     | WQERC10     | "BIT1" SYSTEM/ERROR MAINTENANCE                                  |
|         |      | .1. ....   |     | WQERC11     | "BIT2" PROGRAMMER INFORMATION                                    |
|         |      | ...1 ....  |     | WQERC12     | "BIT3" EMULATOR INFORMATION                                      |
|         |      | .... 1..   |     | WQERC13     | "BIT4" USER ROUTING CODE                                         |
|         |      | .... .1..  |     | WQERC14     | "BIT5" USER ROUTING CODE                                         |
|         |      | .... ..1.  |     | WQERC15     | "BIT6" USER ROUTING CODE                                         |
|         |      | .... ...1  |     | WQERC16     | "BIT7" USER ROUTING CODE                                         |
| 226     | (E2) | BITSTRING  | 1   | WQEERC3     | BYTE 3 - EXTENDED ROUTING CODES                                  |
|         |      | 1.. ....   |     | WQERC17     | "BIT0" USER ROUTING CODE                                         |
|         |      | .1. ....   |     | WQERC18     | "BIT1" USER ROUTING CODE                                         |
|         |      | .1. ....   |     | WQERC19     | "BIT2" USER ROUTING CODE                                         |
|         |      | ...1 ....  |     | WQERC20     | "BIT3" USER ROUTING CODE                                         |
|         |      | .... 1..   |     | WQERC21     | "BIT4" RESERVED FOR JES USAGE                                    |
|         |      | .... .1..  |     | WQERC22     | "BIT5" RESERVED FOR JES USAGE                                    |
|         |      | .... ..1.  |     | WQERC23     | "BIT6" RESERVED FOR JES USAGE                                    |
|         |      | .... ...1  |     | WQERC24     | "BIT7" RESERVED FOR JES USAGE                                    |
| 227     | (E3) | BITSTRING  | 1   | WQEERC4     | BYTE 4 - EXTENDED ROUTING CODES                                  |
|         |      | 1.. ....   |     | WQERC25     | "BIT0" RESERVED FOR JES USAGE                                    |
|         |      | .1. ....   |     | WQERC26     | "BIT1" RESERVED FOR JES USAGE                                    |
|         |      | .1. ....   |     | WQERC27     | "BIT2" RESERVED FOR JES USAGE                                    |
|         |      | ...1 ....  |     | WQERC28     | "BIT3" RESERVED FOR JES USAGE                                    |
|         |      | .... 1..   |     | WQERC29     | "BIT4" RESERVED                                                  |
|         |      | .... ..1.  |     | WQERC30     | "BIT5" RESERVED                                                  |

| Offsets |      |            |     |            |                                        |
|---------|------|------------|-----|------------|----------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                            |
|         |      | .... ..1.  |     | WQERC31    | "BIT6" RESERVED                        |
|         |      | .... ...1  |     | WQERC32    | "BIT7" RESERVED                        |
| 228     | (E4) | BITSTRING  | 1   | WQEERC5    | BYTE 5 - EXTENDED ROUTING CODES        |
|         |      | 1... ....  |     | WQERC33    | "BIT0" RESERVED                        |
|         |      | .1.. ....  |     | WQERC34    | "BIT1" RESERVED                        |
|         |      | ..1. ....  |     | WQERC35    | "BIT2" RESERVED                        |
|         |      | ...1 ....  |     | WQERC36    | "BIT3" RESERVED                        |
|         |      | .... 1...  |     | WQERC37    | "BIT4" RESERVED                        |
|         |      | .... .1..  |     | WQERC38    | "BIT5" RESERVED                        |
|         |      | .... ..1.  |     | WQERC39    | "BIT6" RESERVED                        |
|         |      | .... ...1  |     | WQERC40    | "BIT7" RESERVED                        |
| 229     | (E5) | BITSTRING  | 1   | WQEERC6    | BYTE 6 - EXTENDED ROUTING CODES        |
|         |      | 1... ....  |     | WQERC41    | "BIT0" JOB STATUS MESSAGE              |
|         |      | .1.. ....  |     | WQERC42    | "BIT1" GENERAL INFO ABOUT JES2 OR JES3 |
|         |      | ..1. ....  |     | WQERC43    | "BIT2" RESERVED FOR JES USAGE          |
|         |      | ...1 ....  |     | WQERC44    | "BIT3" RESERVED FOR JES USAGE          |
|         |      | .... 1...  |     | WQERC45    | "BIT4" RESERVED FOR JES USAGE          |
|         |      | .... .1..  |     | WQERC46    | "BIT5" RESERVED FOR JES USAGE          |
|         |      | .... ..1.  |     | WQERC47    | "BIT6" RESERVED FOR JES USAGE          |
|         |      | .... ...1  |     | WQERC48    | "BIT7" RESERVED FOR JES USAGE          |
| 230     | (E6) | BITSTRING  | 1   | WQEERC7    | BYTE 7 - EXTENDED ROUTING CODES        |
|         |      | 1... ....  |     | WQERC49    | "BIT0" RESERVED FOR JES USAGE          |
|         |      | .1.. ....  |     | WQERC50    | "BIT1" RESERVED FOR JES USAGE          |
|         |      | ..1. ....  |     | WQERC51    | "BIT2" RESERVED FOR JES USAGE          |
|         |      | ...1 ....  |     | WQERC52    | "BIT3" RESERVED FOR JES USAGE          |
|         |      | .... 1...  |     | WQERC53    | "BIT4" RESERVED FOR JES USAGE          |
|         |      | .... .1..  |     | WQERC54    | "BIT5" RESERVED FOR JES USAGE          |
|         |      | .... ..1.  |     | WQERC55    | "BIT6" RESERVED FOR JES USAGE          |
|         |      | .... ...1  |     | WQERC56    | "BIT7" RESERVED FOR JES USAGE          |
| 231     | (E7) | BITSTRING  | 1   | WQEERC8    | BYTE 8 - EXTENDED ROUTING CODES        |
|         |      | 1... ....  |     | WQERC57    | "BIT0" RESERVED FOR JES USAGE          |
|         |      | .1.. ....  |     | WQERC58    | "BIT1" RESERVED FOR JES USAGE          |
|         |      | ..1. ....  |     | WQERC59    | "BIT2" RESERVED FOR JES USAGE          |
|         |      | ...1 ....  |     | WQERC60    | "BIT3" RESERVED FOR JES USAGE          |
|         |      | .... 1...  |     | WQERC61    | "BIT4" RESERVED FOR JES USAGE          |
|         |      | .... .1..  |     | WQERC62    | "BIT5" RESERVED FOR JES USAGE          |
|         |      | .... ..1.  |     | WQERC63    | "BIT6" RESERVED FOR JES USAGE          |
|         |      | .... ...1  |     | WQERC64    | "BIT7" RESERVED FOR JES USAGE          |
| 232     | (E8) | BITSTRING  | 1   | WQEERC9    | BYTE 9 - EXTENDED ROUTING CODES        |
|         |      | 1... ....  |     | WQERC65    | "BIT0" PROCESSOR RELATED MESSAGE       |
|         |      | .1.. ....  |     | WQERC66    | "BIT1" PROCESSOR RELATED MESSAGE       |
|         |      | ..1. ....  |     | WQERC67    | "BIT2" PROCESSOR RELATED MESSAGE       |
|         |      | ...1 ....  |     | WQERC68    | "BIT3" PROCESSOR RELATED MESSAGE       |
|         |      | .... 1...  |     | WQERC69    | "BIT4" PROCESSOR RELATED MESSAGE       |
|         |      | .... .1..  |     | WQERC70    | "BIT5" PROCESSOR RELATED MESSAGE       |
|         |      | .... ..1.  |     | WQERC71    | "BIT6" PROCESSOR RELATED MESSAGE       |
|         |      | .... ...1  |     | WQERC72    | "BIT7" PROCESSOR RELATED MESSAGE       |
| 233     | (E9) | BITSTRING  | 1   | WQEERC10   | BYTE 10 - EXTENDED ROUTING CODES       |
|         |      | 1... ....  |     | WQERC73    | "BIT0" PROCESSOR RELATED MESSAGE       |
|         |      | .1.. ....  |     | WQERC74    | "BIT1" PROCESSOR RELATED MESSAGE       |
|         |      | ..1. ....  |     | WQERC75    | "BIT2" PROCESSOR RELATED MESSAGE       |
|         |      | ...1 ....  |     | WQERC76    | "BIT3" PROCESSOR RELATED MESSAGE       |
|         |      | .... 1...  |     | WQERC77    | "BIT4" PROCESSOR RELATED MESSAGE       |
|         |      | .... .1..  |     | WQERC78    | "BIT5" PROCESSOR RELATED MESSAGE       |
|         |      | .... ..1.  |     | WQERC79    | "BIT6" PROCESSOR RELATED MESSAGE       |
|         |      | .... ...1  |     | WQERC80    | "BIT7" PROCESSOR RELATED MESSAGE       |
| 234     | (EA) | BITSTRING  | 1   | WQEERC11   | BYTE 11 - EXTENDED ROUTING CODES       |
|         |      | 1... ....  |     | WQERC81    | "BIT0" PROCESSOR RELATED MESSAGE       |
|         |      | .1.. ....  |     | WQERC82    | "BIT1" PROCESSOR RELATED MESSAGE       |
|         |      | ..1. ....  |     | WQERC83    | "BIT2" PROCESSOR RELATED MESSAGE       |
|         |      | ...1 ....  |     | WQERC84    | "BIT3" PROCESSOR RELATED MESSAGE       |
|         |      | .... 1...  |     | WQERC85    | "BIT4" PROCESSOR RELATED MESSAGE       |
|         |      | .... .1..  |     | WQERC86    | "BIT5" PROCESSOR RELATED MESSAGE       |
|         |      | .... ..1.  |     | WQERC87    | "BIT6" PROCESSOR RELATED MESSAGE       |

# WQE Map

| Offsets   |          |            |                               |                               |                                                           |
|-----------|----------|------------|-------------------------------|-------------------------------|-----------------------------------------------------------|
| Dec       | Hex      | Type/Value | Len                           | Name (Dim)                    | Description                                               |
| 235       | (EB)     | .... ...1  | 1                             | WQERC88                       | "BIT7" PROCESSOR RELATED MESSAGE                          |
|           |          | 1... ....  |                               | WQEERC12                      | BYTE 12 - EXTENDED ROUTING CODES                          |
|           |          | .1.. ....  |                               | WQERC89                       | "BIT0" PROCESSOR RELATED MESSAGE                          |
|           |          | ..1. ....  |                               | WQERC90                       | "BIT1" PROCESSOR RELATED MESSAGE                          |
|           |          | ...1 ....  |                               | WQERC91                       | "BIT2" PROCESSOR RELATED MESSAGE                          |
|           |          | .... 1..   |                               | WQERC92                       | "BIT3" PROCESSOR RELATED MESSAGE                          |
|           |          | .... ..1.  |                               | WQERC93                       | "BIT4" PROCESSOR RELATED MESSAGE                          |
|           |          | .... ...1  |                               | WQERC94                       | "BIT5" PROCESSOR RELATED MESSAGE                          |
|           |          | .... ..1.  |                               | WQERC95                       | "BIT6" PROCESSOR RELATED MESSAGE                          |
|           |          | .... ...1  |                               | WQERC96                       | "BIT7" PROCESSOR RELATED MESSAGE                          |
| 236       | (EC)     | 1... ....  | 1                             | WQEERC13                      | BYTE 13 - EXTENDED ROUTING CODES                          |
|           |          | .1.. ....  |                               | WQERC97                       | "BIT0" DEVICE RELATED MESSAGE                             |
|           |          | ..1. ....  |                               | WQERC98                       | "BIT1" DEVICE RELATED MESSAGE                             |
|           |          | ...1 ....  |                               | WQERC99                       | "BIT2" DEVICE RELATED MESSAGE                             |
|           |          | .... 1..   |                               | WQERC100                      | "BIT3" DEVICE RELATED MESSAGE                             |
|           |          | .... ..1.  |                               | WQERC101                      | "BIT4" DEVICE RELATED MESSAGE                             |
|           |          | .... ...1  |                               | WQERC102                      | "BIT5" DEVICE RELATED MESSAGE                             |
|           |          | .... ..1.  |                               | WQERC103                      | "BIT6" DEVICE RELATED MESSAGE                             |
|           |          | .... ...1  |                               | WQERC104                      | "BIT7" DEVICE RELATED MESSAGE                             |
|           |          | 237        |                               | (ED)                          | 1... ....                                                 |
| .1.. .... | WQERC105 |            | "BIT0" DEVICE RELATED MESSAGE |                               |                                                           |
| ..1. .... | WQERC106 |            | "BIT1" DEVICE RELATED MESSAGE |                               |                                                           |
| ...1 .... | WQERC107 |            | "BIT2" DEVICE RELATED MESSAGE |                               |                                                           |
| .... 1..  | WQERC108 |            | "BIT3" DEVICE RELATED MESSAGE |                               |                                                           |
| .... ..1. | WQERC109 |            | "BIT4" DEVICE RELATED MESSAGE |                               |                                                           |
| .... ...1 | WQERC110 |            | "BIT5" DEVICE RELATED MESSAGE |                               |                                                           |
| .... ..1. | WQERC111 |            | "BIT6" DEVICE RELATED MESSAGE |                               |                                                           |
| .... ...1 | WQERC112 |            | "BIT7" DEVICE RELATED MESSAGE |                               |                                                           |
| 238       | (EE)     |            | 1... ....                     |                               | 1                                                         |
|           |          | .1.. ....  | WQERC113                      | "BIT0" DEVICE RELATED MESSAGE |                                                           |
|           |          | ..1. ....  | WQERC114                      | "BIT1" DEVICE RELATED MESSAGE |                                                           |
|           |          | ...1 ....  | WQERC115                      | "BIT2" DEVICE RELATED MESSAGE |                                                           |
|           |          | .... 1..   | WQERC116                      | "BIT3" DEVICE RELATED MESSAGE |                                                           |
|           |          | .... ..1.  | WQERC117                      | "BIT4" DEVICE RELATED MESSAGE |                                                           |
|           |          | .... ...1  | WQERC118                      | "BIT5" DEVICE RELATED MESSAGE |                                                           |
|           |          | .... ..1.  | WQERC119                      | "BIT6" DEVICE RELATED MESSAGE |                                                           |
|           |          | .... ...1  | WQERC120                      | "BIT7" DEVICE RELATED MESSAGE |                                                           |
|           |          | 239        | (EF)                          | 1... ....                     |                                                           |
| .1.. .... | WQERC121 |            |                               | "BIT0" DEVICE RELATED MESSAGE |                                                           |
| ..1. .... | WQERC122 |            |                               | "BIT1" DEVICE RELATED MESSAGE |                                                           |
| ...1 .... | WQERC123 |            |                               | "BIT2" DEVICE RELATED MESSAGE |                                                           |
| .... 1..  | WQERC124 |            |                               | "BIT3" DEVICE RELATED MESSAGE |                                                           |
| .... ..1. | WQERC125 |            |                               | "BIT4" DEVICE RELATED MESSAGE |                                                           |
| .... ...1 | WQERC126 |            |                               | "BIT5" DEVICE RELATED MESSAGE |                                                           |
| .... ..1. | WQERC127 |            |                               | "BIT6" DEVICE RELATED MESSAGE |                                                           |
| .... ...1 | WQERC128 |            |                               | "BIT7" DEVICE RELATED MESSAGE |                                                           |
| 240       | (F0)     |            |                               | CHARACTER                     | 8                                                         |
| 248       | (F8)     | SIGNED     | 4                             | WQETOKN                       | TOKEN FOR DOM                                             |
| 252       | (FC)     | CHARACTER  | 4                             | WQECNID                       | FULLWORD CONSOLE ID                                       |
| 256       | (100)    | CHARACTER  | 8                             | WQEOJBID                      | ORIGINATING JOB ID                                        |
| 264       | (108)    | CHARACTER  | 8                             | WQEOJBNM                      | ORIGINATING JOB NAME                                      |
| 272       | (110)    | ADDRESS    | 2                             | WQEPRTY                       | MESSAGE'S PRIORITY                                        |
| 274       | (112)    | CHARACTER  | 8                             | WQEAUTOT                      | AUTOMATION TOKEN VALUE                                    |
| 282       | (11A)    | CHARACTER  | 4                             | WQEERFS (0)                   | EXTENDED REQUEST FLAGS (FROM THE USER EXIT TO THE SYSTEM) |
| 282       | (11A)    | 1... ....  | 1                             | WQEERF1                       | REQUEST FLAGS BYTE ONE                                    |
|           |          | .1.. ....  |                               | WQEEMRY                       | "X'80" PRIMARY SUBSYSTEM CAN ALTER MSG ROUTING            |
|           |          | ..1. ....  |                               | WQEEMRN                       | "X'40" PRIMARY SUBSYSTEM CAN NOT ALTER MSG ROUTING        |
|           |          | ...1 ....  |                               | WQEEMCO                       | "X'20" REQUEST TO CHANGE MESSAGE COLOR                    |
|           |          | .... 1..   |                               | WQEEMHI                       | "X'10" REQUEST TO CHANGE MESSAGE HIGHLIGHTING             |
| 283       | (11B)    | .... ...1  | 1                             | WQEEMIN                       | "X'08" REQUEST TO CHANGE MESSAGE INTENSITY                |
|           |          | .... ...1  |                               | WQEERF2                       | REQUEST FLAGS BYTE TWO                                    |
| 284       | (11C)    | BITSTRING  | 1                             | WQEERF3                       | REQUEST FLAGS BYTE THREE                                  |

| Offsets |       |            |     |            |                                                                       |
|---------|-------|------------|-----|------------|-----------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim) | Description                                                           |
|         |       | 1... ....  |     | WQEEJL     | "X'80" REQUEST TO SUPPRESS MESSAGE FROM THE JOBLOG                    |
|         |       | .1.. ....  |     | WQENWTP    | "X'40" REQUEST TO NOT DO WTP PROCESSING (NO SYMSMG OR TPUT)           |
| 285     | (11D) | BITSTRING  | 1   | WQEERF4    | REQUEST FLAGS BYTE FOUR                                               |
| 286     | (11E) | BITSTRING  | 1   | WQEJ3RTC   | JES3 GLOBAL ROUTING - FOR USE BY JES3 ONLY                            |
| 287     | (11F) | BITSTRING  | 1   | WQEJ3MRC   | GLOBAL MESSAGE ROUTING CONTROLS - FOR USE BY JES3 ONLY                |
| 288     | (120) | BITSTRING  | 2   | WQEJ3CON   | JES3 CONSOLE ID (FOR MINOR WQE PROCESSING) - FOR USE BY JES3 ONLY     |
| 290     | (122) | CHARACTER  | 8   | WQECNNME   | CONSOLE NAME                                                          |
| 298     | (12A) | CHARACTER  | 8   | WQECART    | CART TOKEN                                                            |
| 306     | (132) | CHARACTER  | 2   | WQEXIF (0) | MISCELLANEOUS AND MINOR ERROR INFORMATION FLAGS                       |
| 306     | (132) | BITSTRING  | 1   | WQEXIF1    | MISC AND MINOR ERROR FLAG BYTE 1                                      |
|         |       | 1... ....  |     | WQEXTTR    | "BIT0" MESSAGE TEXT WAS TRUNCATED                                     |
|         |       | .1.. ....  |     | WQEXNVT    | "BIT1" INVALID USER EXIT TEXT MODIFICATION                            |
|         |       | ..1. ....  |     | WQEXMER    | "BIT2" MUTUALLY EXCLUSIVE USER EXIT REQUESTS MADE                     |
|         |       | ...1 ....  |     | WQEXIRM    | "BIT3" INCOMPATIBLE USER EXIT REQUESTS MADE                           |
|         |       | .... 1..   |     | WQEDMDB    | "BIT4" DOM MDBS HAVE BEEN BUILT                                       |
| 307     | (133) | BITSTRING  | 1   | WQEXIF2    | MISC AND MINOR ERROR FLAG BYTE 2                                      |
|         |       | 1... ....  |     | WQEQONLY   | "BIT0" REISSUED WQE VIA WQEBLK ON SAME SYS                            |
|         |       | .1.. ....  |     | WQEAMRFO   | "BIT1" WQE IS FOR AMRF PURPOSES ONLY                                  |
|         |       | ..1. ....  |     | WQEAMRFA   | "BIT2" AMRF IS ACTIVE ON ISSUING SYSTEM                               |
|         |       | ...1 ....  |     | WQEQD      | "BIT3" WQE WENT THROUGH QUEUEING ALREADY                              |
|         |       | .... 1..   |     | WQEWTPR    | "BIT4" WTP REQUEST - ROUTE CODE 11 WAS ON AFTER CALLING WTO USER EXIT |
|         |       | .... .1..  |     | WQEMFR     | "BIT5" WQE WAS MODIFIED FOR REISSUE BY QUEUEING                       |
|         |       | .... ..1.  |     | WQEAMRFR   | "BIT6" ISSUED FOR AMRF REFRESH                                        |
|         |       | .... ...1  |     | WQEQTSYS   | "BIT7" QUEUE MESSAGE JUST ON THIS SYSTEM                              |
| 308     | (134) | SIGNED     | 4   | WQEXTUSE   | EXTENDED MCS QUEUER USE COUNT                                         |
| 312     | (138) | ADDRESS    | 4   | WQESRCPT   | POINTER TO SAVED SYSIDS USED FOR CONNECTING WTO MESSAGES IN A SYSPLEX |
| 316     | (13C) | BITSTRING  | 1   | WQEBENIP   | BRANCH ENTRY/NIP FLAGS                                                |
|         |       | 1... ....  |     | WQEDOMD    | "BIT0" MESSAGE HAS PREVIOUSLY BEEN DOM'D                              |
|         |       | .1.. ....  |     | WQENBEW    | "BIT1" WQE CREATED BY NIP OR BE WTO                                   |
|         |       | ..1. ....  |     | WQENHABD   | "BIT2" HAS ALREADY BEEN DISPLAYED                                     |
|         |       | ...1 ....  |     | WQEASCB    | "BIT3" ASCB SPECIFIED                                                 |
| 317     | (13D) | BITSTRING  | 1   | WQEQDSYS   | WQE DESTINATIONS COUNTER                                              |
| 318     | (13E) | CHARACTER  | 1   | WQECASEL   | MESSAGE COLOR                                                         |
| 319     | (13F) | CHARACTER  | 1   | WQEHASEL   | MESSAGE HIGHLIGHTING                                                  |
| 320     | (140) | CHARACTER  | 1   | WQEIASEL   | MESSAGE INTENSITY                                                     |

Comment

MISCELLANEOUS ROUTING INFORMATION  
 NOTE - ANY FIELDS ADDED HERE MUST ALSO BE ADDED IN THE FOLLOWING:  
 UCM, ODTE, RCTB, MDB

End of Comment

|     |       |           |   |              |                                                                                                                 |
|-----|-------|-----------|---|--------------|-----------------------------------------------------------------------------------------------------------------|
| 321 | (141) | BITSTRING | 1 | WQEMISC      | MISCELLANEOUS ROUTING INFORMATION                                                                               |
|     |       | 1... .... |   | WQEUD        | "BIT0" DISPLAY UD MESSAGES                                                                                      |
|     |       | .1.. .... |   | WQEFUDO      | "BIT1" DISPLAY ONLY UD MESSAGES                                                                                 |
|     |       | ..1. .... |   | WQEFIDO      | "BIT2" QUEUE BY ID ONLY                                                                                         |
|     |       | ...1 .... |   | WQEAUTO      | "BIT3" QUEUE BY AUTOMATION                                                                                      |
|     |       | .... 1..  |   | WQEHC        | "BIT4" QUEUE BY HARDCOPY                                                                                        |
| 322 | (142) | BITSTRING | 2 | WQETSNT      | TOTAL COUNT OF TDPS SENT OUT FOR THIS MESSAGE                                                                   |
| 324 | (144) | SIGNED    | 4 | WQERPYIB     | BINARY REPLY ID                                                                                                 |
| 328 | (148) | BITSTRING | 4 | WQETS3       | STCK TIME STAMP Note - if task has been in a wait for resources, this is the time after returning from the wait |
| 332 | (14C) | BITSTRING | 4 | WQEFTOD      | AMRF FAILURE TIME                                                                                               |
| 336 | (150) | CHARACTER | 8 | WQEKQLST (0) | K Q CONSOLE ID LIST                                                                                             |

## WQE Map

| Offsets |       |            |     |            |                                              |
|---------|-------|------------|-----|------------|----------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim) | Description                                  |
| 336     | (150) | SIGNED     | 4   | WQEKQL1    | K Q CONSOLE ID 1                             |
| 340     | (154) | SIGNED     | 4   | WQEKQL2    | K Q CONSOLE ID 2                             |
| 344     | (158) | ADDRESS    | 1   | WQERIDL    | LENGTH OF REPLY ID IN MESSAGE TEXT           |
| 345     | (159) | BITSTRING  | 1   | WQEMISCC   | MISCELLANEOUS CONTROL PROGRAM FLAGS          |
|         |       | 1... ....  |     | WQESPVD    | "BIT0" WQE BACKLOG MESSAGE                   |
|         |       | .1.. ....  |     | WQEPRIV    | "BIT1" Original issuer was privileged        |
|         |       | ..1. ....  |     | WQEONLY    | "BIT2" Send to the console and nowhere else. |
| 346     | (15A) | CHARACTER  | 2   | WQECENT    | Century portion of date, in EBCDIC           |
| 348     | (15C) | BITSTRING  | 4   | WQELTOD    | Reserved - only used in major WQE            |
| 348     | (15C) | X'160'     | 0   | WQEL       | *** END OF WQE                               |
| 348     | (15C) | X'160'     | 0   | WQESIZE    | "WQEL-WQE" LENGTH OF WQE                     |

| Offsets |      |            |     |              |                                                                                                                    |
|---------|------|------------|-----|--------------|--------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                        |
| 0       | (0)  | STRUCTURE  | 0   | WQEMAJ       | , - MAJOR WQE                                                                                                      |
| 0       | (0)  | X'0'       | 0   | WMJM         | *** - START OF MAJOR WQE                                                                                           |
| 0       | (0)  | ADDRESS    | 4   | WMJMEXT      | POINTER TO NEXT WQE                                                                                                |
| 4       | (4)  | BITSTRING  | 1   | WMJMMLW      | - MLWTO FLAGS                                                                                                      |
|         |      | 1... ....  |     | WMJMMLWA     | "BIT0" - DO NOT QUEUE MLWTO TO CONSOLES                                                                            |
|         |      | .1.. ....  |     | WMJMMLWB     | "BIT1" - MAJOR WQE                                                                                                 |
|         |      | ..1. ....  |     | WMJMMLWC     | "BIT2" - MINOR WQE                                                                                                 |
|         |      | ...1 ....  |     | WMJMMLWD     | "BIT3" - CHAIN ALTERED                                                                                             |
|         |      | .... 1..   |     | WMJMMLWE     | "BIT4" - WTL ISSUED                                                                                                |
|         |      | .... .1..  |     | WMJMMLWF     | "BIT5" - QUEUEING TO START AT TOP OF CHAIN                                                                         |
|         |      | .... ..1.  |     | WMJMMLWG     | "BIT6" - SERVICE THIS CHAIN                                                                                        |
|         |      | .... ...1  |     | WMJMMLWH     | "BIT7" - MINOR WQE QUEUED HAS NO TEXT                                                                              |
| 5       | (5)  | CHARACTER  | 1   | WMJMAREA     | - AREA ID                                                                                                          |
| 6       | (6)  | SIGNED     | 2   | WMJMTXL      | - LENGTH OF TEXT                                                                                                   |
| 8       | (8)  | SIGNED     | 2   | WMJMRTCT     | ROUTED WQE COUNT                                                                                                   |
| 10      | (A)  | SIGNED     | 2   | WMJMUC       | USE COUNT                                                                                                          |
| 12      | (C)  | CHARACTER  | 1   | WMJMPAD      | - BLANK Y02710                                                                                                     |
| 13      | (D)  | CHARACTER  | 8   | WMJMSTS      | - TIME STAMP Y02710                                                                                                |
| 21      | (15) | CHARACTER  | 1   | WMJMPAD1     | - BLANK Y02710                                                                                                     |
| 22      | (16) | CHARACTER  | 8   | WMJMJBNM     | - JOBNAME INSERTED BY SUBSYSTEM Y02710                                                                             |
| 30      | (1E) | CHARACTER  | 1   | WMJMPAD2     | - BLANK Y02710                                                                                                     |
| 31      | (1F) | CHARACTER  | 72  | WMJMXT       | - MESSAGE TEXT (MAXIMUM OF 72 BYTES)                                                                               |
| 103     | (67) | CHARACTER  | 4   | WMJMHCID     | - HARDCOPY ID                                                                                                      |
| 107     | (6B) | CHARACTER  | 1   | WMJMPAD3     | - BLANK INSERTED SO THAT REMAINING FIELDS ARE ON A WORD BOUNDARY Note, this field was used in OW26748 do not reuse |
| 108     | (6C) | SIGNED     | 4   | WMJMRESA (2) | - DUMMY MINOR CREATED BY PURGE OS/VS2 Y02710                                                                       |
| 116     | (74) | SIGNED     | 4   | WQERSV29     | - RESERVED Y02710                                                                                                  |
| 120     | (78) | SIGNED     | 2   | WQERSV30     | - RESERVED                                                                                                         |
| 122     | (7A) | BITSTRING  | 2   | WMJMSER (0)  | - LINE CONTROL FLAGS                                                                                               |
| 122     | (7A) | BITSTRING  | 1   | WMJMSER1     | - 1ST BYTE OF LINE CONTROL FLAGS                                                                                   |
|         |      | 1... ....  |     | WMJMSERA     | "BIT0" - C LINE IN MAJOR WQE                                                                                       |
|         |      | .1.. ....  |     | WMJMSERB     | "BIT1" - ONE LABEL LINE FOUND                                                                                      |
|         |      | ..1. ....  |     | WMJMSERC     | "BIT2" - TWO LABEL LINES FOUND                                                                                     |
|         |      | ...1 ....  |     | WMJMSERD     | "BIT3" - LAST TYPE WAS CONTROL LINE                                                                                |
|         |      | .... 1..   |     | WMJMSERE     | "BIT4" - LAST TYPE WAS LABEL LINE                                                                                  |
|         |      | .... .1..  |     | WQERSV31     | "BIT5,,C'X'" - RESERVED                                                                                            |
|         |      | .... ..1.  |     | WQERSV32     | "BIT6,,C'X'" - RESERVED                                                                                            |
|         |      | .... ...1  |     | WQERSV33     | "BIT7,,C'X'" - RESERVED                                                                                            |
| 123     | (7B) | BITSTRING  | 1   | WMJMSER2     | - 2ND BYTE OF LINE CONTROL FLAGS                                                                                   |
| 124     | (7C) | BITSTRING  | 8   | WQERSVD2     | - RESERVED                                                                                                         |
| 132     | (84) | BITSTRING  | 2   | WQERSV34     | - RESERVED ***WMJMRESB***                                                                                          |
| 134     | (86) | BITSTRING  | 2   | WMJMLTYP (0) | - LINE TYPE FLAGS                                                                                                  |
| 134     | (86) | BITSTRING  | 1   | WMJMLTY1     | - 1ST BYTE OF LINE TYPE FLAGS                                                                                      |
|         |      | 1... ....  |     | WMJMLTYA     | "BIT0" - CONTROL LINE                                                                                              |
|         |      | .1.. ....  |     | WMJMLTYB     | "BIT1" - LABEL LINE                                                                                                |
|         |      | ..1. ....  |     | WMJMLTYC     | "BIT2" - DATA LINE ICB433                                                                                          |
|         |      | ...1 ....  |     | WMJMLTYD     | "BIT3" - END LINE ICB433                                                                                           |

| Offsets |      |            |     |              |                                                                                                              |
|---------|------|------------|-----|--------------|--------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                  |
|         |      | .... 1..   |     | WQERSV35     | "BIT4,,C'X'" - RESERVED                                                                                      |
|         |      | .... .1..  |     | WQERSV36     | "BIT5,,C'X'" - RESERVED                                                                                      |
|         |      | .... ..1.  |     | WQERSV37     | "BIT6,,C'X'" - RESERVED                                                                                      |
|         |      | .... ...1  |     | WQERSV38     | "BIT7,,C'X'" - RESERVED                                                                                      |
| 135     | (87) | BITSTRING  | 1   | WMJMLTY2     | - 2ND BYTE OF LINE TYPE FLAGS                                                                                |
| 136     | (88) | ADDRESS    | 4   | WMJMMIN      | - ADDRESS OF FIRST MINOR WQE                                                                                 |
| 140     | (8C) | BITSTRING  | 4   | WMJMAECB     | - ECB USED IN MLWTO PROCESSING Y02710                                                                        |
| 144     | (90) | CHARACTER  | 4   | WMJMMSGN     | - MLWTO ID Y02710                                                                                            |
| 148     | (94) | BITSTRING  | 1   | WMJMCEBF     | - STATUS FLAGS                                                                                               |
|         |      | 1.. ....   |     | WMJMWAIT     | "BIT0" - USER IS WAITING ON WMJMAECB Y02710                                                                  |
|         |      | .1.. ....  |     | WMJMMAJD     | "BIT1" - SUBSYSTEM OR USERS EXIT ASKED TO DELETE THIS MLWTO Y02710                                           |
|         |      | ..1. ....  |     | WMJMCONS     | "BIT2" - FRAME FULL CONTROL BIT                                                                              |
|         |      | ...1 ....  |     | WMJMPSB1     | "BIT3" SAVE AREA FOR COMMUNICATION BIT PASSED TO THE PRIMARY SUBSYSTEM                                       |
|         |      | .... 1..   |     | WMJMRV9A     | "BIT4" RESERVED                                                                                              |
|         |      | .... .1..  |     | WMJMWTP      | "BIT5" MAJOR WQE TEXT HAS BEEN PUT/TPUT BY IEEJB840 - DON'T DO IT AGAIN                                      |
|         |      | .... ..1.  |     | WQERSVD6     | "BIT6,,C'X'" - RESERVED Y02710                                                                               |
|         |      | .... ...1  |     | WQERSVD7     | "BIT7,,C'X'" - RESERVED Y02710                                                                               |
| 149     | (95) | BITSTRING  | 3   | WQERSVD8     | - RESERVED Y02710                                                                                            |
| 152     | (98) | SIGNED     | 4   | WQERSVA4     | - RESERVED Y02710                                                                                            |
| 156     | (9C) | SIGNED     | 4   | WQERSVA5     | - RESERVED Y02710                                                                                            |
| 160     | (A0) | BITSTRING  | 1   | WMJMDSPP     | - DISPOSITION FLAGS                                                                                          |
|         |      | 1.. ....   |     | WMJMDSPPA    | "BIT0" - PURGE THIS WQE                                                                                      |
|         |      | .1.. ....  |     | WMJMDSPPB    | "BIT1" - QUEUE WQE TO HARDCOPY                                                                               |
|         |      | ..1. ....  |     | WMJMDSPPC    | "BIT2" - MUST BE ZERO                                                                                        |
|         |      | ...1 ....  |     | WMJMDSPPD    | "BIT3" - QUEUED TO HARDCOPY                                                                                  |
|         |      | .... 1..   |     | WMJMDSPP E   | "BIT4" - MUST BE ZERO                                                                                        |
|         |      | .... .1..  |     | WMJMDSPP F   | "BIT5" - MESSAGE TO BE DOM'ED Y02710                                                                         |
|         |      | .... ..1.  |     | WMJMDSPP G   | "BIT6" - PROCESSING TEMPORARILY SUSPENDED Y02710                                                             |
|         |      | .... ...1  |     | WMJMDSPP H   | "BIT7" - MSG ISSUED BY AUTH USER Y02710                                                                      |
| 161     | (A1) | CHARACTER  | 2   | WMJMASID     | - ASID OF USER Y02710                                                                                        |
| 163     | (A3) | BITSTRING  | 1   | WMJMIBUF     | - BUFFER STATUS FLAGS                                                                                        |
|         |      | 1.. ....   |     | WMJMIBUFA    | "BIT0" - WQE AVAILABLE                                                                                       |
|         |      | .1.. ....  |     | WMJMIBUFB    | "BIT1" - WQE IN USE                                                                                          |
|         |      | ..1. ....  |     | WMJMIBUFC    | "BIT2" - READY FOR HARDCOPY Y02710                                                                           |
|         |      | ...1 ....  |     | WMJMIBUFD    | "BIT3" - WQE ACQUIRED BY GETMAIN                                                                             |
|         |      | .... 1..   |     | WMJMIBUFE    | "BIT4" - WQE SERVICED                                                                                        |
|         |      | .... .1..  |     | WMJMIBUFF    | "BIT5" - TPUT TO DO Y02710                                                                                   |
|         |      | .... ..1.  |     | WMJMIBUFG    | "BIT6" - WQE SUPPRESSED                                                                                      |
|         |      | .... ...1  |     | WMJMTRCD     | "BIT7" - MAJOR WQE HAS BEEN MASTER TRACED                                                                    |
| 164     | (A4) | SIGNED     | 4   | (0)          | -                                                                                                            |
| 164     | (A4) | ADDRESS    | 4   | WMJMTCB      | - ADDRESS OF ISSUER'S TCB Y02710                                                                             |
| 168     | (A8) | SIGNED     | 4   | WMJMSEQ# (0) | WTO SEQUENCE NUMBER (DOM/CONNECT ID)                                                                         |
| 168     | (A8) | SIGNED     | 1   | WMJMSID      | SYSTEM ID                                                                                                    |
| 169     | (A9) | SIGNED     | 3   | WMJMSEQ      | 24-BIT SEQUENCE NUMBER                                                                                       |
| 172     | (AC) | BITSTRING  | 2   | WMJMCS (0)   | - MCS FLAGS                                                                                                  |
| 172     | (AC) | BITSTRING  | 1   | WMJMCS1      | - 1ST BYTE OF MCS FLAGS                                                                                      |
|         |      | 1.. ....   |     | WMJMCS1A     | "BIT0" - ROUTING AND DESCRIPTOR CODES EXIST                                                                  |
|         |      | .1.. ....  |     | WMJMCS1B     | "BIT1" - QUEUE BY ID TO ACTIVE CONSOLE                                                                       |
|         |      | ..1. ....  |     | WMJMCS1C     | "BIT2" - COMMAND RESPONSE                                                                                    |
|         |      | ...1 ....  |     | WMJMCS1D     | "BIT3" - MESSAGE TYPE FIELD PRESENT                                                                          |
|         |      | .... 1..   |     | WMJMCS1E     | "BIT4" - ACCEPTED REPLY TO A WTOR                                                                            |
|         |      | .... .1..  |     | WMJMCS1F     | "BIT5" - BROADCAST (ROUTE TO ACTIVE CONSOLES)                                                                |
|         |      | .... ..1.  |     | WMJMCS1G     | "BIT6" - QUEUE TO HARDCOPY ONLY                                                                              |
|         |      | .... ...1  |     | WMJMCS1H     | "BIT7" - QUEUE UNCONDITIONALLY BY ID TO CONSOLE                                                              |
| 173     | (AD) | BITSTRING  | 1   | WMJMCS2      | - 2ND BYTE OF MCS FLAGS                                                                                      |
|         |      | 1.. ....   |     | WMJMCS2A     | "BIT0" - DO NOT TIME STAMP                                                                                   |
|         |      | .1.. ....  |     | WMJMCS2B     | "BIT1" - MLWTO                                                                                               |
|         |      | ..1. ....  |     | WMJMCS2C     | "BIT2" PRIMARY SUBSYSTEM USE ONLY: JES3: DO NOT LOG MINOR WQES IF THE MAJOR IS NOT HARDCOPIED JES2: NOT USED |
|         |      | ...1 ....  |     | WMJMCS2D     | "BIT3" EXTENDED WPL FORMAT (WPX) EXISTS                                                                      |

# WQE Map

| Offsets |      |            |     |             |                                                                                        |
|---------|------|------------|-----|-------------|----------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)  | Description                                                                            |
|         |      | .... 1..   |     | WMJMCS2E    | "BIT4" - THE MESSAGE IS AN OPERATOR COMMAND                                            |
|         |      | .... .1..  |     | WMJMCS2F    | "BIT5" - BYPASS HARDCOPY QUEUEING                                                      |
|         |      | .... ..1.  |     | WMJMCS2G    | "BIT6" WQEBLK KEYWORD SPECIFIED                                                        |
|         |      | .... ...1  |     | WMJMCS2H    | "BIT7" RESERVED                                                                        |
| 174     | (AE) | BITSTRING  | 2   | WMJMMT (0)  | - MESSAGE TYPE FLAGS                                                                   |
| 174     | (AE) | BITSTRING  | 1   | WMJMMT1     | - 1ST BYTE OF MESSAGE TYPE FLAGS                                                       |
|         |      | 1.. ..     |     | WMJMMT1A    | "BIT0" - DISPLAY JOBNAMES                                                              |
|         |      | .1.. ....  |     | WMJMMT1B    | "BIT1" - DISPLAY STATUS                                                                |
|         |      | ..1. ....  |     | WQERSVA6    | "BIT2,,'C'X" - RESERVED ***WMJMMT1C*** Y02710                                          |
|         |      | ...1 ....  |     | WMJMMT1D    | "BIT3" - MUST BE ZERO                                                                  |
|         |      | .... 1..   |     | WQERSV50    | "BIT4,,'C'X" - RESERVED                                                                |
|         |      | .... .1..  |     | WMJMMT1F    | "BIT5" - MONITOR SESS                                                                  |
|         |      | .... ..1.  |     | WQERSV51    | "BIT6,,'C'X" - RESERVED                                                                |
|         |      | .... ...1  |     | WQERSV52    | "BIT7,,'C'X" - RESERVED                                                                |
| 175     | (AF) | BITSTRING  | 1   | WMJMMT2     | - 2ND BYTE OF MESSAGE TYPE FLAGS                                                       |
| 176     | (B0) | BITSTRING  | 2   | WMJMRTC (0) | - ROUTING CODES                                                                        |
| 176     | (B0) | BITSTRING  | 1   | WMJMRCT1    | - 1ST BYTE OF ROUTING CODES                                                            |
|         |      | 1.. ..     |     | WMJMRCTA    | "BIT0" - MASTER CONSOLE                                                                |
|         |      | .1.. ....  |     | WMJMRCTB    | "BIT1" - MASTER CONSOLE INFORMATIONAL                                                  |
|         |      | ..1. ....  |     | WMJMRCTC    | "BIT2" - TAPE POOL                                                                     |
|         |      | ...1 ....  |     | WMJMRCTD    | "BIT3" - DIRECT ACCESS POOL                                                            |
|         |      | .... 1..   |     | WMJMRCTE    | "BIT4" - TAPE LIBRARY                                                                  |
|         |      | .... .1..  |     | WMJMRCTF    | "BIT5" - DISK LIBRARY                                                                  |
|         |      | .... ..1.  |     | WMJMRCTG    | "BIT6" - UNIT RECORD POOL                                                              |
|         |      | .... ...1  |     | WMJMRCTH    | "BIT7" - TELEPROCESSING CONTROL                                                        |
| 177     | (B1) | BITSTRING  | 1   | WMJMRCT2    | - 2ND BYTE OF ROUTING CODES                                                            |
|         |      | 1.. ..     |     | WMJMRCTI    | "BIT0" - SYSTEM SECURITY                                                               |
|         |      | .1.. ....  |     | WMJMRCTJ    | "BIT1" - SYSTEM/ERROR MAINTENANCE                                                      |
|         |      | ..1. ....  |     | WMJMRCTK    | "BIT2" - PROGRAMMER INFORMATION                                                        |
|         |      | ...1 ....  |     | WMJMRCTL    | "BIT3" - EMULATOR INFORMATION                                                          |
|         |      | .... 1..   |     | WMJMRCTM    | "BIT4" - USER ROUTING CODE                                                             |
|         |      | .... ..1.  |     | WMJMRCTN    | "BIT5" - USER ROUTING CODE                                                             |
|         |      | .... ...1  |     | WMJMRCTO    | "BIT6" - USER ROUTING CODE                                                             |
|         |      | .... ...1  |     | WMJMRCTP    | "BIT7" USER ROUTING CODE                                                               |
| 178     | (B2) | CHARACTER  | 1   | WMJCHAR1    | 1ST CHARACTER OF TEXT                                                                  |
| 179     | (B3) | BITSTRING  | 1   | WMJMFLG3    | MISCELLANEOUS FLAGS                                                                    |
|         |      | 1.. ..     |     | WMJDLVRD    | "BIT0" WQE HAS BEEN DELIVERED TO A CONSOLE ON THIS SYSTEM                              |
|         |      | .1.. ....  |     | WMJDNDWQ    | "BIT1" - DO NOT DELETE WTOR UNTIL THIS BIT IS OFF                                      |
|         |      | ..1. ....  |     | WMJNSYL     | "BIT2" - DO NOT SEND THIS MESSAGE TO SYSLOG                                            |
|         |      | ...1 ....  |     | WMJJ3B1     | "BIT3" - BIT FOR USE BY JES3 ONLY                                                      |
|         |      | .... 1..   |     | WMJJ3B2     | "BIT4" - BIT FOR USE BY JES3 ONLY                                                      |
| 180     | (B4) | CHARACTER  | 1   | WMJMUID     | - UCM ENTRY ID                                                                         |
| 181     | (B5) | BITSTRING  | 1   | WMJFLG1     | - MISCELLANEOUS FLAGS                                                                  |
|         |      | 1.. ..     |     | WMJFLG11    | "BIT0" - THIS MESSAGE WAS PROCESSED WHILE MPF WAS ACTIVE AND HARDCOPY WAS AVAILABLE    |
|         |      | .1.. ....  |     | WMJMRETN    | "BIT1" - MSG IS TO BE RETAINED BY AMRF                                                 |
|         |      | ..1. ....  |     | WMJMNMOD    | "BIT2" THE CHARACTERISTICS OF THE MESSAGE MAY NOT BE MODIFIED BY THE PRIMARY SUBSYSTEM |
|         |      | ...1 ....  |     | WMJMSQMC    | "BIT3" ACTION MESSAGE NOT QUEUED TO ANY CONSOLE - DEFAULT TO MASTER CONSOLE            |
|         |      | .... 1..   |     | WMJNOJLG    | "BIT4" SUPPRESS FROM JOB LOG                                                           |
|         |      | .... .1..  |     | WMJAUTOV    | "BIT5" - INDICATES MPF AUTO SUPPORTED                                                  |
|         |      | .... ..1.  |     | WMJPPNA     | "BIT6" - PROBLEM PROGRAM NONACTION MAJOR                                               |
|         |      | .... ...1  |     | WMJMRISS    | "BIT7" - REISSUED MESSAGE                                                              |
| 182     | (B6) | BITSTRING  | 2   | WQERSV54    | - RESERVED - MAPS TO WQERPVID                                                          |
| 184     | (B8) | BITSTRING  | 4   | WMJMDEC (0) | - DESCRIPTOR CODES                                                                     |
| 184     | (B8) | BITSTRING  | 1   | WMJMDEC1    | - 1ST BYTE OF DESCRIPTOR CODES                                                         |
|         |      | 1.. ..     |     | WMJMDECA    | "BIT0" - SYSTEM FAILURE MESSAGE                                                        |
|         |      | .1.. ....  |     | WMJMDECB    | "BIT1" - IMMEDIATE ACTION REQUIRED MESSAGE                                             |
|         |      | ..1. ....  |     | WMJMDECC    | "BIT2" - EVENTUAL ACTION REQUIRED MESSAGE                                              |
|         |      | ...1 ....  |     | WMJMDECD    | "BIT3" - SYSTEM STATUS MESSAGE                                                         |
|         |      | .... 1..   |     | WMJMDECE    | "BIT4" - IMMEDIATE COMMAND RESPONSE MESSAGE                                            |
|         |      | .... ..1.  |     | WMJMDECF    | "BIT5" - JOB STATUS MESSAGE                                                            |



| Offsets |      |            |     |              |                                                                                                                 |
|---------|------|------------|-----|--------------|-----------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                     |
|         |      | .... ..1.  |     | WMJMDECG     | "BIT6" APPLICATION PROGRAM/PROCESSOR MESSAGE, OR DELETE AT TASK TERMINATION                                     |
| 185     | (B9) | BITSTRING  | 1   | WMJMDECH     | "BIT7" - OUT-OF-LINE MESSAGE                                                                                    |
|         |      | .... ..1   |     | WMJMDEC2     | - 2ND BYTE OF DESCRIPTOR CODES                                                                                  |
|         |      | 1... ....  |     | WMJMDECI     | "BIT0" OPERATOR REQUEST                                                                                         |
|         |      | ..1. ....  |     | WMJMDECJ     | "BIT1" DYNAMIC STATUS DISPLAY                                                                                   |
|         |      | ..1. ....  |     | WMJMDECK     | "BIT2" - CRITICAL EVENTUAL ACTION MSG - DESCRIPTOR CODE 11                                                      |
|         |      | ...1 ....  |     | WMJMDECL     | "BIT3" - DELIVERED BUT NOT HELD                                                                                 |
|         |      | .... 1..   |     | WMJMDECM     | "BIT4" - PREVIOUSLY AUTOMATED                                                                                   |
|         |      | .... ..1.. |     | WQERSV59     | "BIT5,,C'X'" - RESERVED                                                                                         |
|         |      | .... ..1.  |     | WQERSV60     | "BIT6,,C'X'" - RESERVED                                                                                         |
|         |      | .... ..1   |     | WQERSV61     | "BIT7,,C'X'" - RESERVED                                                                                         |
| 186     | (BA) | BITSTRING  | 1   | WMJMDEC3     | - Reserved for 3rd byte of descriptor codes                                                                     |
| 187     | (BB) | BITSTRING  | 1   | WMJMCST      | Count of MCS-only consoles on the issuing system to which a message is queued                                   |
| 188     | (BC) | SIGNED     | 4   | WMJMJTCTB    | - ADDRESS OF JOB STEP TCB Y02710                                                                                |
| 192     | (C0) | BITSTRING  | 1   | WMJMVRSN     | VERSION LEVEL                                                                                                   |
| 193     | (C1) | BITSTRING  | 1   | WMJMFLG2     | MISC FLAGS BYTE 2                                                                                               |
|         |      | 1... ....  |     | WMJMHNDL     | "BIT0" THIS MSG WILL BE DISPLAYED BY ANOTHER CONSOLE HANDLER. DO NOT FORCE MSG TO MASTER CONSOLE IF NOT ROUTED. |
|         |      | ..1. ....  |     | WMJMLCPL     | "BIT1" MULTILINE IS COMPLETE                                                                                    |
|         |      | ..1. ....  |     | WMJMFORN     | "BIT2" FOREIGN WQE                                                                                              |
|         |      | ...1 ....  |     | WMJMTRAN     | "BIT3" WQE HAS BEEN TRANSPORTED TO ANOTHER SYSTEM                                                               |
|         |      | .... 1..   |     | WMJSUPSJ     | "BIT4" ON = DON'T DISPLAY SYSTEM NAME OR JOB NAME                                                               |
|         |      | .... ..1.. |     | WMJQXSYS     | "BIT5" ON = QUEUED TO A CONSOLE ON ANOTHER SYSTEM IN THE SYSPLEX                                                |
|         |      | .... ..1.  |     | WMJQEXT      | "BIT6" ON = QUEUED TO AN EXTENDED CLASS                                                                         |
|         |      | .... ..1   |     | WMJQMCS      | "BIT7" ON = QUEUED TO AN MCS CONSOLE                                                                            |
| 194     | (C2) | CHARACTER  | 2   | WMJMCSE (0)  | EXTENDED MCS FLAGS                                                                                              |
| 194     | (C2) | BITSTRING  | 1   | WMJMCE1      | FIRST BYTE                                                                                                      |
|         |      | 1... ....  |     | WMJEBUSY     | "BIT0" RETURN WITH BUSY RETURN CODE IF BUFFER LIMITATIONS EXCEEDED                                              |
|         |      | ..1. ....  |     | WMJECONS     | "BIT1" FOUR-BYTE CONSOLE ID SPECIFIED                                                                           |
|         |      | ..1. ....  |     | WMJEDOMI     | "BIT2" DOM ID WAS SPECIFIED                                                                                     |
|         |      | ...1 ....  |     | WMJECONN     | "BIT3" CONNECT ID WAS SPECIFIED                                                                                 |
|         |      | .... 1..   |     | WMJEWTOR     | "BIT4" WTOR WITH EXTENDED PARAMETER LIST                                                                        |
|         |      | .... ..1.. |     | WMJEPRIO     | "BIT5" PRIORITY WAS SPECIFIED                                                                                   |
|         |      | .... ..1.  |     | WMJMCNM      | "BIT6" CONSOLE NAME SPECIFIED                                                                                   |
| 195     | (C3) | BITSTRING  | 1   | WMJMCE2      | SECOND BYTE OF EXT MCS FLAGS                                                                                    |
|         |      | 1... ....  |     | WMJMXTA      | "BIT0" UNUSED IN WQE - TEXT ADDRESS PARAMETER SPECIFIED ON WTO MACRO                                            |
|         |      | ..1. ....  |     | WMJMVRV99    | "BIT1" RESERVED                                                                                                 |
|         |      | ..1. ....  |     | WMJMVRV9B    | "BIT2" RESERVED                                                                                                 |
|         |      | ...1 ....  |     | WMJMVRV9C    | "BIT3" RESERVED                                                                                                 |
|         |      | .... 1..   |     | WMJMVRV1A    | "BIT4" RESERVED                                                                                                 |
|         |      | .... ..1.. |     | WMJMVRV1B    | "BIT5" RESERVED                                                                                                 |
|         |      | .... ..1.  |     | WMJMVRV1C    | "BIT6" RESERVED                                                                                                 |
|         |      | .... ..1   |     | WMJMVRV1D    | "BIT7" RESERVED                                                                                                 |
| 196     | (C4) | CHARACTER  | 8   | WMJMSNM      | THE NAME OF THE SYSTEM ON WHICH THIS MESSAGE WAS ISSUED                                                         |
| 204     | (CC) | CHARACTER  | 5   | WMJMDATE     | DATE WTO ISSUED                                                                                                 |
| 209     | (D1) | CHARACTER  | 3   | WMJMSTS2     | TENTHS AND HUNDREDTHS OF A SECOND                                                                               |
| 212     | (D4) | CHARACTER  | 4   | WMJMXMOD (0) | COPY OF REQUEST FLAGS (CTXTRFLG) FROM THE WTO USER EXIT INTERFACE                                               |
| 212     | (D4) | CHARACTER  | 3   | WMJMFLGS (0) | COMM TASK USER EXIT REQUESTS                                                                                    |
| 212     | (D4) | BITSTRING  | 1   | WMJMRFB1     | REQUEST FLAGS BYTE ONE                                                                                          |
|         |      | 1... ....  |     | WMJMRCMT     | "BIT0" CHANGE THE MESSAGE TEXT                                                                                  |
|         |      | ..1. ....  |     | WMJMRCRC     | "BIT1" CHANGE THE ROUTING CODE(S)                                                                               |
|         |      | ..1. ....  |     | WMJMRCDC     | "BIT2" CHANGE THE DESCRIPTOR CODE(S)                                                                            |
|         |      | ...1 ....  |     | WMJMRCPC     | "BIT3" QUEUE TO A PARTICULAR ACTIVE CONSOLE                                                                     |

## WQE Map

| Offsets |      |            |     |              |                                                               |
|---------|------|------------|-----|--------------|---------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                   |
|         |      | .... 1...  |     | WMJMRQUN     | "BIT4" QUEUE TO A PARTICULAR CONSOLE UNCONDITIONALLY          |
|         |      | .... .1..  |     | WMJMRQRC     | "BIT5" QUEUE BY ROUTING CODES ONLY                            |
|         |      | .... .1.   |     | WMJMRCN      | "BIT6" CHANGE THE CONSOLE ID                                  |
|         |      | .... ...1  |     | WMJMPPML     | "BIT7" PROCESS MINOR LINES                                    |
| 213     | (D5) | BITSTRING  | 1   | WMJMRFB2     | REQUEST FLAGS BYTE TWO                                        |
|         |      | 1... ....  |     | WMJMRDTM     | "BIT0" DELETE THE MESSAGE                                     |
|         |      | .1.. ....  |     | WMJMROMS     | "BIT1" OVERRIDE MPF SUPPRESSION                               |
|         |      | .1. ....   |     | WMJMRFHC     | "BIT2" FORCE HARDCOPY                                         |
|         |      | ...1 ....  |     | WMJMRFNC     | "BIT3" FORCE NO HARDCOPY                                      |
|         |      | .... 1...  |     | WMJMRHCO     | "BIT4" FORCE HARDCOPY ONLY                                    |
|         |      | .... .1..  |     | WMJMRBCA     | "BIT5" BROADCAST MESSAGE TO ACTIVE CONSOLES                   |
|         |      | .... .1.   |     | WMJMRBCN     | "BIT6" DO NOT BROADCAST MESSAGE TO ACTIVE CONSOLES            |
|         |      | .... ...1  |     | WMJMNRRT     | "BIT7" AMRF IS NOT TO RETAIN THIS MSG                         |
| 214     | (D6) | BITSTRING  | 1   | WMJMRFB3     | REQUEST FLAGS BYTE THREE                                      |
|         |      | 1... ....  |     | WMJMRRRT     | "BIT0" AMRF IS TO RETAIN THIS MSG                             |
|         |      | .1.. ....  |     | WMJMRCYK     | "BIT1" CHANGE THE RETRIEVAL KEY                               |
|         |      | .1. ....   |     | WMJMRCFC     | "BIT2" CHANGE THE 4-BYTE CONSOLE ID                           |
|         |      | ...1 ....  |     | WMJMRCMF     | "BIT3" CHANGE THE MESSAGE TYPE FLAGS                          |
|         |      | .... 1...  |     | WMJHRANO     | "BIT4" AUTOMATION IS NOT REQUIRED                             |
|         |      | .... .1..  |     | WMJHRAYS     | "BIT5" AUTOMATION IS REQUIRED AND/OR AUTOMATION TOKEN UPDATED |
|         |      | .... .1.   |     | WMJMQHCO     | "BIT6" MESSAGE ISSUED HARDCOPY ONLY                           |
|         |      | .... ...1  |     | WMJMHUD      | "BIT7" UD TO HARDCOPY FLAG                                    |
| 215     | (D7) | BITSTRING  | 1   | WMJMSPUB     | SUPPRESSION BYTE                                              |
|         |      | 1... ....  |     | WMJMNSV      | "BIT0" NOT SERVICED BY ANY WTO USER EXIT ROUTINE              |
|         |      | .1.. ....  |     | WMJMSEER     | "BIT1" ESTAE ERROR IN IEAVX600                                |
|         |      | .1. ....   |     | WMJMNSI      | "BIT2" NOT SERVICED BECAUSE OF AN INCOMPATIBLE REQUEST        |
|         |      | ...1 ....  |     | WMJMSAUT     | "BIT3" INDICATES AUTOMATION SPECIFIED                         |
|         |      | .... 1...  |     | WMJMSQED     | "BIT4" NOT QUEUED TO ANY CONSOLE                              |
|         |      | .... .1..  |     | WMJMSSSI     | "BIT5" SUPPRESSED BY A SUBSYSTEM                              |
|         |      | .... .1.   |     | WMJMSWTO     | "BIT6" SUPPRESSED BY A WTO USER EXIT ROUTINE                  |
|         |      | .... ...1  |     | WMJMSPPF     | "BIT7" SUPPRESSED BY MPF                                      |
| 216     | (D8) | SIGNED     | 2   | WMJMMLVL (0) | MESSAGE LEVEL MASK FOR QUEUING                                |
| 216     | (D8) | BITSTRING  | 1   | WMJMML1      | FIRST BYTE OF LEVEL INDICATORS                                |
|         |      | 1... ....  |     | WMJMMLR      | "BIT0" WTOR                                                   |
|         |      | .1.. ....  |     | WMJMMLIA     | "BIT1" IMMEDIATE ACTION MESSAGE                               |
|         |      | .1. ....   |     | WMJMMLCE     | "BIT2" CRITICAL EVENTUAL ACTION MESSAGE                       |
|         |      | ...1 ....  |     | WMJMMLLE     | "BIT3" EVENTUAL ACTION MESSAGE                                |
|         |      | .... 1...  |     | WMJMMLI      | "BIT4" INFORMATIONAL MESSAGE                                  |
|         |      | .... .1..  |     | WMJMMLBC     | "BIT5" BROADCAST MESSAGE                                      |
| 217     | (D9) | BITSTRING  | 1   | WMJMML2      | RESERVED                                                      |
| 218     | (DA) | SIGNED     | 2   | WMJM LENG    | WQE SIZE                                                      |
| 220     | (DC) | SIGNED     | 4   | WMJDSQN      | UNIVERSAL DISPLAY SEQUENCE NUMBER                             |
| 224     | (E0) | BITSTRING  | 16  | WMJMERC (0)  | EXTENDED ROUTING CODES                                        |
| 224     | (E0) | BITSTRING  | 1   | WMJMRC1      | BYTE 1 - EXTENDED ROUTING CODES                               |
|         |      | 1... ....  |     | WMJRC1       | "BIT0" MASTER CONSOLE                                         |
|         |      | .1.. ....  |     | WMJRC2       | "BIT1" MASTER CONSOLE INFORMATIONAL                           |
|         |      | .1. ....   |     | WMJRC3       | "BIT2" TAPE POOL                                              |
|         |      | ...1 ....  |     | WMJRC4       | "BIT3" DIRECT ACCESS POOL                                     |
|         |      | .... 1...  |     | WMJRC5       | "BIT4" TAPE LIBRARY                                           |
|         |      | .... .1..  |     | WMJRC6       | "BIT5" DISK LIBRARY                                           |
|         |      | .... .1.   |     | WMJRC7       | "BIT6" UNIT RECORD POOL                                       |
|         |      | .... ...1  |     | WMJRC8       | "BIT7" TELEPROCESSING CONTROL                                 |
| 225     | (E1) | BITSTRING  | 1   | WMJMRC2      | BYTE 2 - EXTENDED ROUTING CODES                               |
|         |      | 1... ....  |     | WMJRC9       | "BIT0" SYSTEM SECURITY                                        |
|         |      | .1.. ....  |     | WMJRC10      | "BIT1" SYSTEM/ERROR MAINTENANCE                               |
|         |      | .1. ....   |     | WMJRC11      | "BIT2" PROGRAMMER INFORMATION                                 |
|         |      | ...1 ....  |     | WMJRC12      | "BIT3" EMULATOR INFORMATION                                   |
|         |      | .... 1...  |     | WMJRC13      | "BIT4" USER ROUTING CODE                                      |
|         |      | .... .1..  |     | WMJRC14      | "BIT5" USER ROUTING CODE                                      |
|         |      | .... .1.   |     | WMJRC15      | "BIT6" USER ROUTING CODE                                      |

| Offsets   |         |                                  |                 |                                        |                                  |
|-----------|---------|----------------------------------|-----------------|----------------------------------------|----------------------------------|
| Dec       | Hex     | Type/Value                       | Len             | Name (Dim)                             | Description                      |
| 226       | (E2)    | .... ...1                        | 1               | WMJRC16                                | "BIT7" USER ROUTING CODE         |
|           |         | 1... ....                        |                 | WMJMRC3                                | BYTE 3 - EXTENDED ROUTING CODES  |
|           |         | .1.. ....                        |                 | WMJRC17                                | "BIT0" USER ROUTING CODE         |
|           |         | ..1. ....                        |                 | WMJRC18                                | "BIT1" USER ROUTING CODE         |
|           |         | ...1 ....                        |                 | WMJRC19                                | "BIT2" USER ROUTING CODE         |
|           |         | .... 1..                         |                 | WMJRC20                                | "BIT3" USER ROUTING CODE         |
|           |         | .... ..1.                        |                 | WMJRC21                                | "BIT4" RESERVED FOR JES USAGE    |
|           |         | .... ...1                        |                 | WMJRC22                                | "BIT5" RESERVED FOR JES USAGE    |
|           |         | .... ..1.                        |                 | WMJRC23                                | "BIT6" RESERVED FOR JES USAGE    |
|           |         | .... ...1                        |                 | WMJRC24                                | "BIT7" RESERVED FOR JES USAGE    |
| 227       | (E3)    | 1... ....                        | 1               | WMJMRC4                                | BYTE 4 - EXTENDED ROUTING CODES  |
|           |         | .1.. ....                        |                 | WMJRC25                                | "BIT0" RESERVED FOR JES USAGE    |
|           |         | ..1. ....                        |                 | WMJRC26                                | "BIT1" RESERVED FOR JES USAGE    |
|           |         | ...1 ....                        |                 | WMJRC27                                | "BIT2" RESERVED FOR JES USAGE    |
|           |         | .... 1..                         |                 | WMJRC28                                | "BIT3" RESERVED FOR JES USAGE    |
|           |         | .... ..1.                        |                 | WMJRC29                                | "BIT4" RESERVED                  |
|           |         | .... ...1                        |                 | WMJRC30                                | "BIT5" RESERVED                  |
|           |         | .... ..1.                        |                 | WMJRC31                                | "BIT6" RESERVED                  |
|           |         | .... ...1                        |                 | WMJRC32                                | "BIT7" RESERVED                  |
|           |         | 228                              |                 | (E4)                                   | 1... ....                        |
| .1.. .... | WMJRC33 |                                  | "BIT0" RESERVED |                                        |                                  |
| ..1. .... | WMJRC34 |                                  | "BIT1" RESERVED |                                        |                                  |
| ...1 .... | WMJRC35 |                                  | "BIT2" RESERVED |                                        |                                  |
| .... 1..  | WMJRC36 |                                  | "BIT3" RESERVED |                                        |                                  |
| .... ..1. | WMJRC37 |                                  | "BIT4" RESERVED |                                        |                                  |
| .... ...1 | WMJRC38 |                                  | "BIT5" RESERVED |                                        |                                  |
| .... ..1. | WMJRC39 |                                  | "BIT6" RESERVED |                                        |                                  |
| .... ...1 | WMJRC40 |                                  | "BIT7" RESERVED |                                        |                                  |
| 229       | (E5)    |                                  | 1... ....       |                                        | 1                                |
|           |         | .1.. ....                        | WMJRC41         | "BIT0" JOB STATUS MESSAGE              |                                  |
|           |         | ..1. ....                        | WMJRC42         | "BIT1" GENERAL INFO ABOUT JES2 OR JES3 |                                  |
|           |         | ...1 ....                        | WMJRC43         | "BIT2" RESERVED FOR JES USAGE          |                                  |
|           |         | .... 1..                         | WMJRC44         | "BIT3" RESERVED FOR JES USAGE          |                                  |
|           |         | .... ..1.                        | WMJRC45         | "BIT4" RESERVED FOR JES USAGE          |                                  |
|           |         | .... ...1                        | WMJRC46         | "BIT5" RESERVED FOR JES USAGE          |                                  |
|           |         | .... ..1.                        | WMJRC47         | "BIT6" RESERVED FOR JES USAGE          |                                  |
| 230       | (E6)    | 1... ....                        | 1               | WMJMRC7                                | BYTE 7 - EXTENDED ROUTING CODES  |
|           |         | .1.. ....                        |                 | WMJRC48                                | "BIT7" RESERVED FOR JES USAGE    |
|           |         | ..1. ....                        |                 | WMJRC49                                | "BIT0" RESERVED FOR JES USAGE    |
|           |         | ...1 ....                        |                 | WMJRC50                                | "BIT1" RESERVED FOR JES USAGE    |
|           |         | .... 1..                         |                 | WMJRC51                                | "BIT2" RESERVED FOR JES USAGE    |
|           |         | .... ..1.                        |                 | WMJRC52                                | "BIT3" RESERVED FOR JES USAGE    |
|           |         | .... ...1                        |                 | WMJRC53                                | "BIT4" RESERVED FOR JES USAGE    |
|           |         | .... ..1.                        |                 | WMJRC54                                | "BIT5" RESERVED FOR JES USAGE    |
| 231       | (E7)    | 1... ....                        | 1               | WMJMRC8                                | BYTE 8 - EXTENDED ROUTING CODES  |
|           |         | .1.. ....                        |                 | WMJRC55                                | "BIT6" RESERVED FOR JES USAGE    |
|           |         | ..1. ....                        |                 | WMJRC56                                | "BIT7" RESERVED FOR JES USAGE    |
|           |         | ...1 ....                        |                 | WMJRC57                                | "BIT0" RESERVED FOR JES USAGE    |
|           |         | .... 1..                         |                 | WMJRC58                                | "BIT1" RESERVED FOR JES USAGE    |
|           |         | .... ..1.                        |                 | WMJRC59                                | "BIT2" RESERVED FOR JES USAGE    |
|           |         | .... ...1                        |                 | WMJRC60                                | "BIT3" RESERVED FOR JES USAGE    |
|           |         | .... ..1.                        |                 | WMJRC61                                | "BIT4" RESERVED FOR JES USAGE    |
| 232       | (E8)    | 1... ....                        | 1               | WMJMRC9                                | BYTE 9 - EXTENDED ROUTING CODES  |
|           |         | .1.. ....                        |                 | WMJRC62                                | "BIT5" RESERVED FOR JES USAGE    |
|           |         | ..1. ....                        |                 | WMJRC63                                | "BIT6" RESERVED FOR JES USAGE    |
|           |         | ...1 ....                        |                 | WMJRC64                                | "BIT7" RESERVED FOR JES USAGE    |
|           |         | .... 1..                         |                 | WMJRC65                                | BYTE 9 - EXTENDED ROUTING CODES  |
|           |         | .... ..1.                        |                 | WMJRC66                                | "BIT0" PROCESSOR RELATED MESSAGE |
|           |         | .... ...1                        |                 | WMJRC67                                | "BIT1" PROCESSOR RELATED MESSAGE |
|           |         | .... ..1.                        |                 | WMJRC68                                | "BIT2" PROCESSOR RELATED MESSAGE |
| .... ...1 | WMJRC69 | "BIT3" PROCESSOR RELATED MESSAGE |                 |                                        |                                  |
| .... ..1. | WMJRC70 | "BIT4" PROCESSOR RELATED MESSAGE |                 |                                        |                                  |
| .... ...1 | WMJRC71 | "BIT5" PROCESSOR RELATED MESSAGE |                 |                                        |                                  |
| .... ..1. | WMJRC72 | "BIT6" PROCESSOR RELATED MESSAGE |                 |                                        |                                  |
| .... ...1 | WMJRC72 | "BIT7" PROCESSOR RELATED MESSAGE |                 |                                        |                                  |

## WQE Map

| Offsets   |          |                               |                                  |                                  |                                  |
|-----------|----------|-------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Dec       | Hex      | Type/Value                    | Len                              | Name (Dim)                       | Description                      |
| 233       | (E9)     | BITSTRING                     | 1                                | WMJMRC10                         | BYTE 10 - EXTENDED ROUTING CODES |
|           |          | 1... ....                     |                                  | WMJRC73                          | "BIT0" PROCESSOR RELATED MESSAGE |
|           |          | .1.. ....                     |                                  | WMJRC74                          | "BIT1" PROCESSOR RELATED MESSAGE |
|           |          | ..1. ....                     |                                  | WMJRC75                          | "BIT2" PROCESSOR RELATED MESSAGE |
|           |          | ...1 ....                     |                                  | WMJRC76                          | "BIT3" PROCESSOR RELATED MESSAGE |
|           |          | .... 1..                      |                                  | WMJRC77                          | "BIT4" PROCESSOR RELATED MESSAGE |
|           |          | .... .1..                     |                                  | WMJRC78                          | "BIT5" PROCESSOR RELATED MESSAGE |
|           |          | .... ..1.                     |                                  | WMJRC79                          | "BIT6" PROCESSOR RELATED MESSAGE |
|           |          | .... ...1                     |                                  | WMJRC80                          | "BIT7" PROCESSOR RELATED MESSAGE |
|           |          | 234                           |                                  | (EA)                             | BITSTRING                        |
| 1... .... | WMJRC81  |                               | "BIT0" PROCESSOR RELATED MESSAGE |                                  |                                  |
| .1.. .... | WMJRC82  |                               | "BIT1" PROCESSOR RELATED MESSAGE |                                  |                                  |
| ..1. .... | WMJRC83  |                               | "BIT2" PROCESSOR RELATED MESSAGE |                                  |                                  |
| ...1 .... | WMJRC84  |                               | "BIT3" PROCESSOR RELATED MESSAGE |                                  |                                  |
| .... 1..  | WMJRC85  |                               | "BIT4" PROCESSOR RELATED MESSAGE |                                  |                                  |
| .... .1.. | WMJRC86  |                               | "BIT5" PROCESSOR RELATED MESSAGE |                                  |                                  |
| .... ..1. | WMJRC87  |                               | "BIT6" PROCESSOR RELATED MESSAGE |                                  |                                  |
| .... ...1 | WMJRC88  |                               | "BIT7" PROCESSOR RELATED MESSAGE |                                  |                                  |
| 235       | (EB)     |                               | BITSTRING                        |                                  | 1                                |
|           |          | 1... ....                     | WMJRC89                          | "BIT0" PROCESSOR RELATED MESSAGE |                                  |
|           |          | .1.. ....                     | WMJRC90                          | "BIT1" PROCESSOR RELATED MESSAGE |                                  |
|           |          | ..1. ....                     | WMJRC91                          | "BIT2" PROCESSOR RELATED MESSAGE |                                  |
|           |          | ...1 ....                     | WMJRC92                          | "BIT3" PROCESSOR RELATED MESSAGE |                                  |
|           |          | .... 1..                      | WMJRC93                          | "BIT4" PROCESSOR RELATED MESSAGE |                                  |
|           |          | .... .1..                     | WMJRC94                          | "BIT5" PROCESSOR RELATED MESSAGE |                                  |
|           |          | .... ..1.                     | WMJRC95                          | "BIT6" PROCESSOR RELATED MESSAGE |                                  |
|           |          | .... ...1                     | WMJRC96                          | "BIT7" PROCESSOR RELATED MESSAGE |                                  |
|           |          | 236                           | (EC)                             | BITSTRING                        |                                  |
| 1... .... | WMJRC97  |                               |                                  | "BIT0" DEVICE RELATED MESSAGE    |                                  |
| .1.. .... | WMJRC98  |                               |                                  | "BIT1" DEVICE RELATED MESSAGE    |                                  |
| ..1. .... | WMJRC99  |                               |                                  | "BIT2" DEVICE RELATED MESSAGE    |                                  |
| ...1 .... | WMJRC100 |                               |                                  | "BIT3" DEVICE RELATED MESSAGE    |                                  |
| .... 1..  | WMJRC101 |                               |                                  | "BIT4" DEVICE RELATED MESSAGE    |                                  |
| .... .1.. | WMJRC102 |                               |                                  | "BIT5" DEVICE RELATED MESSAGE    |                                  |
| .... ..1. | WMJRC103 |                               |                                  | "BIT6" DEVICE RELATED MESSAGE    |                                  |
| .... ...1 | WMJRC104 |                               |                                  | "BIT7" DEVICE RELATED MESSAGE    |                                  |
| 237       | (ED)     |                               |                                  | BITSTRING                        | 1                                |
|           |          | 1... ....                     | WMJRC105                         | "BIT0" DEVICE RELATED MESSAGE    |                                  |
|           |          | .1.. ....                     | WMJRC106                         | "BIT1" DEVICE RELATED MESSAGE    |                                  |
|           |          | ..1. ....                     | WMJRC107                         | "BIT2" DEVICE RELATED MESSAGE    |                                  |
|           |          | ...1 ....                     | WMJRC108                         | "BIT3" DEVICE RELATED MESSAGE    |                                  |
|           |          | .... 1..                      | WMJRC109                         | "BIT4" DEVICE RELATED MESSAGE    |                                  |
|           |          | .... .1..                     | WMJRC110                         | "BIT5" DEVICE RELATED MESSAGE    |                                  |
|           |          | .... ..1.                     | WMJRC111                         | "BIT6" DEVICE RELATED MESSAGE    |                                  |
|           |          | .... ...1                     | WMJRC112                         | "BIT7" DEVICE RELATED MESSAGE    |                                  |
|           |          | 238                           | (EE)                             | BITSTRING                        |                                  |
| 1... .... | WMJRC113 |                               |                                  | "BIT0" DEVICE RELATED MESSAGE    |                                  |
| .1.. .... | WMJRC114 |                               |                                  | "BIT1" DEVICE RELATED MESSAGE    |                                  |
| ..1. .... | WMJRC115 |                               |                                  | "BIT2" DEVICE RELATED MESSAGE    |                                  |
| ...1 .... | WMJRC116 |                               |                                  | "BIT3" DEVICE RELATED MESSAGE    |                                  |
| .... 1..  | WMJRC117 |                               |                                  | "BIT4" DEVICE RELATED MESSAGE    |                                  |
| .... .1.. | WMJRC118 |                               |                                  | "BIT5" DEVICE RELATED MESSAGE    |                                  |
| .... ..1. | WMJRC119 |                               |                                  | "BIT6" DEVICE RELATED MESSAGE    |                                  |
| .... ...1 | WMJRC120 |                               |                                  | "BIT7" DEVICE RELATED MESSAGE    |                                  |
| 239       | (EF)     |                               |                                  | BITSTRING                        | 1                                |
|           |          | 1... ....                     | WMJRC121                         | "BIT0" DEVICE RELATED MESSAGE    |                                  |
|           |          | .1.. ....                     | WMJRC122                         | "BIT1" DEVICE RELATED MESSAGE    |                                  |
|           |          | ..1. ....                     | WMJRC123                         | "BIT2" DEVICE RELATED MESSAGE    |                                  |
|           |          | ...1 ....                     | WMJRC124                         | "BIT3" DEVICE RELATED MESSAGE    |                                  |
|           |          | .... 1..                      | WMJRC125                         | "BIT4" DEVICE RELATED MESSAGE    |                                  |
|           |          | .... .1..                     | WMJRC126                         | "BIT5" DEVICE RELATED MESSAGE    |                                  |
|           |          | .... ..1.                     | WMJRC127                         | "BIT6" DEVICE RELATED MESSAGE    |                                  |
| .... ...1 | WMJRC128 | "BIT7" DEVICE RELATED MESSAGE |                                  |                                  |                                  |
| 240       | (F0)     | CHARACTER                     | 8                                | WMJMKEY                          | RETRIEVAL KEY                    |

| Offsets |       |            |     |             |                                                                       |
|---------|-------|------------|-----|-------------|-----------------------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim)  | Description                                                           |
| 248     | (F8)  | SIGNED     | 4   | WMJMTOKN    | TOKEN FOR DOM                                                         |
| 252     | (FC)  | CHARACTER  | 4   | WMJMCNID    | FULLWORD CONSOLE ID                                                   |
| 256     | (100) | CHARACTER  | 8   | WMJMOJBI    | ORIGINATING JOB ID                                                    |
| 264     | (108) | CHARACTER  | 8   | WMJMOJBN    | ORIGINATING JOB NAME                                                  |
| 272     | (110) | ADDRESS    | 2   | WMJMPRTY    | MESSAGE'S PRIORITY                                                    |
| 274     | (112) | CHARACTER  | 8   | WMJAUTOT    | AUTOMATION TOKEN VALUE                                                |
| 282     | (11A) | CHARACTER  | 4   | WMJERFS (0) | EXTENDED REQUEST FLAGS (FROM THE USER EXIT TO THE SYSTEM)             |
| 282     | (11A) | BITSTRING  | 1   | WMJMERF1    | REQUEST FLAGS BYTE ONE                                                |
|         |       | 1... ....  |     | WMJEMRY     | "X'80" PRIMARY SUBSYSTEM CAN ALTER MSG ROUTING                        |
|         |       | .1.. ....  |     | WMJEMRN     | "X'40" PRIMARY SUBSYSTEM CAN NOT ALTER MSG ROUTING                    |
|         |       | ..1. ....  |     | WMJEMCO     | "X'20" REQUEST TO CHANGE MESSAGE COLOR                                |
|         |       | ...1 ....  |     | WMJEMHI     | "X'10" REQUEST TO CHANGE MESSAGE HIGHLIGHTING                         |
|         |       | .... 1...  |     | WMJEMIN     | "X'08" REQUEST TO CHANGE MESSAGE INTENSITY                            |
| 283     | (11B) | BITSTRING  | 1   | WMJERF2     | REQUEST FLAGS BYTE TWO                                                |
| 284     | (11C) | BITSTRING  | 1   | WMJERF3     | REQUEST FLAGS BYTE THREE                                              |
|         |       | 1... ....  |     | WMJESJL     | "X'80" REQUEST TO SUPPRESS MESSAGE FROM THE JOBLOG                    |
|         |       | .1.. ....  |     | WMJNWTP     | "X'40" REQUEST TO NOT DO WTP PROCESSING (NO SYMSMG OR TPUT)           |
| 285     | (11D) | BITSTRING  | 1   | WMJERF4     | REQUEST FLAGS BYTE FOUR                                               |
| 286     | (11E) | BITSTRING  | 1   | WMJJ3RTC    | JES3 GLOBAL ROUTING - FOR USE BY JES3 ONLY                            |
| 287     | (11F) | BITSTRING  | 1   | WMJJ3MRC    | GLOBAL MESSAGE ROUTING CONTROLS - FOR USE BY JES3 ONLY                |
| 288     | (120) | BITSTRING  | 2   | WMJJ3CON    | JES3 CONSOLE ID (FOR MINOR WQE PROCESSING) - FOR USE BY JES3 ONLY     |
| 290     | (122) | CHARACTER  | 8   | WMJMCNME    | CONSOLE NAME                                                          |
| 298     | (12A) | CHARACTER  | 8   | WMJMCART    | CART ADDRESS                                                          |
| 306     | (132) | CHARACTER  | 2   | WMJMXIF (0) | MISCELLANEOUS AND MINOR ERROR INFORMATION FLAGS                       |
| 306     | (132) | BITSTRING  | 1   | WMJMXIF1    | MISC AND MINOR ERROR FLAG BYTE 1                                      |
|         |       | 1... ....  |     | WMJMXTXTR   | "BIT0" MESSAGE TEXT WAS TRUNCATED                                     |
|         |       | .1.. ....  |     | WMJMXNVT    | "BIT1" INVALID USER EXIT TEXT MODIFICATION                            |
|         |       | ..1. ....  |     | WMJMXMER    | "BIT2" MUTUALLY EXCLUSIVE USER EXIT REQUESTS MADE                     |
|         |       | ...1 ....  |     | WMJMXIRM    | "BIT3" INCOMPATIBLE USER EXIT REQUESTS MADE                           |
|         |       | .... 1...  |     | WMJMDMDB    | "BIT4" DOM MDBS HAVE BEEN BUILT                                       |
| 307     | (133) | BITSTRING  | 1   | WMJMXIF2    | MISC AND MINOR ERROR FLAG BYTE 2                                      |
|         |       | 1... ....  |     | WMJQONLY    | "BIT0" REISSUED WQE VIA WQEBLK ON SAME SYS                            |
|         |       | .1.. ....  |     | WMJAMRFO    | "BIT1" WQE IS FOR AMRF PURPOSES ONLY                                  |
|         |       | ..1. ....  |     | WMJAMRFA    | "BIT2" AMRF IS ACTIVE ON ISSUING SYSTEM                               |
|         |       | ...1 ....  |     | WMJMQD      | "BIT3" WQE WENT THROUGH QUEUEING ALREADY                              |
|         |       | .... 1...  |     | WMJMWTPR    | "BIT4" WTP REQUEST - ROUTE CODE 11 WAS ON AFTER CALLING WTO USER EXIT |
|         |       | .... .1..  |     | WMJMMFR     | "BIT5" WQE WAS MODIFIED FOR REISSUE BY QUEUEING                       |
|         |       | .... ..1.  |     | WMJAMRFR    | "BIT6" ISSUED FOR AMRF REFRESH                                        |
|         |       | .... ...1  |     | WMJQTSYS    | "BIT7" QUEUE MESSAGE JUST ON THIS SYSTEM                              |
| 308     | (134) | SIGNED     | 4   | WMJMXTUC    | EXTENDED MCS QUEUER USE COUNT                                         |
| 312     | (138) | ADDRESS    | 4   | WMJMRCPT    | POINTER TO SAVED SYSIDS USED FOR CONNECTING MESSAGES IN A SYSPLEX     |
| 316     | (13C) | BITSTRING  | 1   | WMJBENIP    | BRANCH ENTRY/NIP FLAGS                                                |
|         |       | 1... ....  |     | WMJMDOMD    | "BIT0" MESSAGE HAS PREVIOUSLY BEEN DOM'D                              |
|         |       | .1.. ....  |     | WMJMNBW     | "BIT1" WQE CREATED BY NIP OR BE WTO                                   |
|         |       | ..1. ....  |     | WMJMHABD    | "BIT2" HAS ALREADY BEEN DISPLAYED                                     |
|         |       | ...1 ....  |     | WMJMASC     | "BIT3" ASCB SPECIFIED                                                 |
| 317     | (13D) | BITSTRING  | 1   | WMJQDSYS    | WQE DESTINATIONS COUNTER                                              |
| 318     | (13E) | CHARACTER  | 1   | WMJCASEL    | MESSAGE COLOR                                                         |
| 319     | (13F) | CHARACTER  | 1   | WMJHASEL    | MESSAGE HIGHLIGHTING                                                  |
| 320     | (140) | CHARACTER  | 1   | WMJIASEL    | MESSAGE INTENSITY                                                     |

## WQE Map

| Offsets                           |       |            |     |              |                                                                                                                         |
|-----------------------------------|-------|------------|-----|--------------|-------------------------------------------------------------------------------------------------------------------------|
| Dec                               | Hex   | Type/Value | Len | Name (Dim)   | Description                                                                                                             |
| Comment                           |       |            |     |              |                                                                                                                         |
| MISCELLANEOUS ROUTING INFORMATION |       |            |     |              |                                                                                                                         |
| End of Comment                    |       |            |     |              |                                                                                                                         |
| 321                               | (141) | BITSTRING  | 1   | WMJMMISC     | MISCELLANEOUS ROUTING INFORMATION                                                                                       |
|                                   |       | 1... ..    |     | WMJMUD       | "BIT0" DISPLAY UD MESSAGES                                                                                              |
|                                   |       | .1.. ..    |     | WMJMFUDO     | "BIT1" DISPLAY ONLY UD MESSAGES                                                                                         |
|                                   |       | ..1. ..    |     | WMJMFIDO     | "BIT2" QUEUE BY ID ONLY                                                                                                 |
|                                   |       | ...1 ..    |     | WMJMAUTO     | "BIT3" QUEUE BY AUTOMATION                                                                                              |
|                                   |       | .... 1..   |     | WMJMHC       | "BIT4" QUEUE BY HARDCOPY                                                                                                |
| 322                               | (142) | BITSTRING  | 2   | WMJMSTNT     | TOTAL COUNT OF TDPS SENT OUT FOR THIS MULTI-LINE                                                                        |
| 324                               | (144) | SIGNED     | 4   | WQERSVDB     | RESERVED - MAPS TO WQERPYIB                                                                                             |
| 328                               | (148) | BITSTRING  | 4   | WMJMST3      | STCK FORM OF TIME STAMP Note - if task has been in a wait for resources, this is the time after returning from the wait |
| 332                               | (14C) | BITSTRING  | 4   | WMJMFTOD     | AMRF FAILURE TIME                                                                                                       |
| 336                               | (150) | CHARACTER  | 8   | WMJMQLST (0) | K Q CONSOLE ID LIST                                                                                                     |
| 336                               | (150) | SIGNED     | 4   | WMJMKQL1     | K Q CONSOLE ID 1                                                                                                        |
| 340                               | (154) | SIGNED     | 4   | WMJMKQL2     | K Q CONSOLE ID 2                                                                                                        |
| 344                               | (158) | ADDRESS    | 1   | WMJMRIDL     | LENGTH OF REPLY ID IN MESSAGE TEXT                                                                                      |
| 345                               | (159) | BITSTRING  | 1   | WMJMISCC     | MISCELLANEOUS CONTROL PROGRAM FLAGS                                                                                     |
|                                   |       | 1... ..    |     | WMJMSPVD     | "BIT0" WQE BACKLOG MESSAGE                                                                                              |
|                                   |       | .1.. ..    |     | WMJMPRIV     | "BIT1" Original issuer was privileged                                                                                   |
|                                   |       | ..1. ....  |     | WMJMQNLY     | "BIT2" Send to console and nowhere else                                                                                 |
| 346                               | (15A) | CHARACTER  | 2   | WMJMCENT     | Century portion of date, in EBCDIC                                                                                      |
| 348                               | (15C) | BITSTRING  | 4   | WMJMLTOD     | Stck time last minor added to MLWTO                                                                                     |
| 348                               | (15C) | X'160'     | 0   | WMJMSIZE     | ** - WMJM" - SIZE OF MAJOR WQE ICB433                                                                                   |

| Offsets |      |            |     |            |                                                                         |
|---------|------|------------|-----|------------|-------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                             |
| 0       | (0)  | STRUCTURE  | 0   | WQEMIN     | , - MINOR WQE                                                           |
| 0       | (0)  | X'0'       | 0   | WMNM       | ** - START OF MINOR WQE                                                 |
| 0       | (0)  | ADDRESS    | 4   | WMNMNX1    | POINTER TO SECOND HALF OF WQE                                           |
| 4       | (4)  | BITSTRING  | 1   | WMNMML1    | - MLWTO FLAGS FOR FIRST MESSAGE                                         |
|         |      | 1... ..    |     | WQERSV62   | "BIT0,,C'X'" - RESERVED                                                 |
|         |      | .1.. ..    |     | WMNMML1B   | "BIT1" - MAJOR WQE                                                      |
|         |      | ..1. ....  |     | WMNMML1C   | "BIT2" - MINOR WQE                                                      |
|         |      | ...1 ..    |     | WMNMML1D   | "BIT3" - CHAIN ALTERED                                                  |
|         |      | .... 1..   |     | WMNMML1E   | "BIT4" - WTL ISSUED                                                     |
|         |      | .... .1..  |     | WMNMML1F   | "BIT5" - MINOR WQE FOR ABEND ICB433                                     |
|         |      | .... .1.   |     | WMNMML1G   | "BIT6" - SERVICE THIS CHAIN                                             |
|         |      | .... ...1  |     | WMNMML1H   | "BIT7" - MINOR WQE ACQUIRED BY GETMAIN ICB461                           |
| 5       | (5)  | BITSTRING  | 1   | WMNMLT1    | - LINE TYPE FLAGS FOR FIRST MESSAGE                                     |
|         |      | 1... ..    |     | WMNMLT1A   | "BIT0" - CONTROL LINE                                                   |
|         |      | .1.. ....  |     | WMNMLT1B   | "BIT1" - LABEL LINE                                                     |
|         |      | ..1. ....  |     | WMNMLT1C   | "BIT2" - DATA LINE                                                      |
|         |      | ...1 ..    |     | WMNMLT1D   | "BIT3" - END INDICATOR                                                  |
|         |      | .... 1..   |     | WQERSV63   | "BIT4,,C'X'" - RESERVED                                                 |
|         |      | .... .1..  |     | WQERSV64   | "BIT5,,C'X'" - RESERVED                                                 |
|         |      | .... .1.   |     | WQERSV65   | "BIT6,,C'X'" - RESERVED                                                 |
|         |      | .... ...1  |     | WQERSV66   | "BIT7,,C'X'" - RESERVED                                                 |
| 6       | (6)  | SIGNED     | 1   | WMNMLTH1   | LENGTH OF 1 MINOR WQE                                                   |
| 7       | (7)  | SIGNED     | 1   | WMNMTL1    | - LENGTH OF FIRST MESSAGE TEXT                                          |
| 8       | (8)  | CHARACTER  | 4   | WMNMHCT1   | - HARDCOPY ID FOR FIRST MESSAGE                                         |
| 12      | (C)  | CHARACTER  | 72  | WMNMTXT1   | - FIRST MESSAGE TEXT (MAX 72 BYTES)                                     |
| 84      | (54) | BITSTRING  | 1   | WMNMST1    | - STATUS FLAGS Y02710                                                   |
|         |      | 1... ..    |     | WMNMTPD1   | "BIT0" - TPUT DONE Y02710                                               |
|         |      | .1.. ....  |     | WMNMTRC1   | "BIT1" - FIRST MINOR WQE HAS BEEN MASTER TRACED                         |
|         |      | ..1. ....  |     | WMNMWTP1   | "BIT2" - MINOR 1 TEXT HAS BEEN PUT/TPUT BY IEEJB840 - DON'T DO IT AGAIN |
|         |      | ...1 ..    |     | WQERSVB1   | "BIT3,,C'X'" - RESERVED Y02710                                          |

| Offsets |      |            |     |              |                                                                         |
|---------|------|------------|-----|--------------|-------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                             |
|         |      | .... 1...  |     | WQERSVB2     | "BIT4,,C'X'" - RESERVED Y02710                                          |
|         |      | .... .1..  |     | WQERSVB3     | "BIT5,,C'X'" - RESERVED Y02710                                          |
|         |      | .... ..1.  |     | WQERSVB4     | "BIT6,,C'X'" - RESERVED Y02710                                          |
|         |      | .... ...1  |     | WQERSVB5     | "BIT7,,C'X'" - RESERVED Y02710                                          |
| 85      | (55) | BITSTRING  | 1   | WMNMMSF1     | MISCELLANEOUS FLAGS                                                     |
|         |      | 1... ....  |     | WMNMRV99     | "BIT0" RESERVED                                                         |
|         |      | .1.. ....  |     | WMNMRV9A     | "BIT1" RESERVED                                                         |
|         |      | ..1. ....  |     | WMNMTRAN     | "BIT2" WQE HAS BEEN TRANSPORTED TO ANOTHER SYSTEM                       |
| 86      | (56) | SIGNED     | 2   | WMNMUC1      | USE COUNT 1                                                             |
| 88      | (58) | SIGNED     | 4   | WMNMSEQ1     | SEQUENCE NUMBER (CONNECT ID)                                            |
| 92      | (5C) | CHARACTER  | 4   | WMN1XMOD (0) | COPY OF REQUEST FLAGS (CTXTRFLG) FROM THE WTO USER EXIT INTERFACE       |
| 92      | (5C) | CHARACTER  | 3   | WMN1FLGS (0) | COMM TASK USER EXIT REQUESTS                                            |
| 92      | (5C) | BITSTRING  | 1   | WMN1RFB1     | REQUEST FLAGS BYTE ONE                                                  |
|         |      | 1... ....  |     | WMN1RCMT     | "BIT0" CHANGE THE MESSAGE TEXT                                          |
|         |      | .... ..1   |     | WMN1RPML     | "BIT7" PROCESS THE MINOR LINES                                          |
| 93      | (5D) | BITSTRING  | 1   | WMN1RFB2     | REQUEST FLAGS BYTE TWO                                                  |
| 94      | (5E) | BITSTRING  | 1   | WMN1RFB3     | RESERVED                                                                |
| 95      | (5F) | BITSTRING  | 1   | WMN1SUPB     | SUPPRESSION BYTE                                                        |
|         |      | 1... ....  |     | WMN1SNSV     | "BIT0" NOT SERVICED BY ANY WTO USER EXIT ROUTINE                        |
|         |      | .1.. ....  |     | WMN1SEER     | "BIT1" ESTAE ERROR IN IEAVX600                                          |
|         |      | ..1. ....  |     | WMN1SNSI     | "BIT2" NOT SERVICED BECAUSE OF AN INCOMPATIBLE REQUEST                  |
|         |      | ...1 ....  |     | WMN1SAUT     | "BIT3" INDICATES AUTOMATION SPECIFIED                                   |
|         |      | .... 1...  |     | WMN1SQED     | "BIT4" NOT QUEUED TO ANY CONSOLE                                        |
|         |      | .... .1..  |     | WMN1SSSI     | "BIT5" SUPPRESSED BY A SUBSYSTEM                                        |
|         |      | .... ..1.  |     | WMN1SWTO     | "BIT6" SUPPRESSED BY A WTO USER EXIT ROUTINE                            |
|         |      | .... ...1  |     | WMN1SMPF     | "BIT7" SUPPRESSED BY MPF                                                |
| 96      | (60) | ADDRESS    | 4   | WMNMNX2      | ADDRESS OF NEXT MINOR WQE OR ZERO                                       |
| 100     | (64) | BITSTRING  | 1   | WMNMML2      | - MLWTO FLAGS FOR SECOND MESSAGE                                        |
|         |      | 1... ....  |     | WQERSV68     | "BIT0,,C'X'" - RESERVED                                                 |
|         |      | .1.. ....  |     | WMNMML2B     | "BIT1" - MAJOR WQE                                                      |
|         |      | ..1. ....  |     | WMNMML2C     | "BIT2" - MINOR WQE                                                      |
|         |      | ...1 ....  |     | WMNMML2D     | "BIT3" - CHAIN ALTERED                                                  |
|         |      | .... 1...  |     | WMNMML2E     | "BIT4" - WTL ISSUED                                                     |
|         |      | .... .1..  |     | WQERSV69     | "BIT5,,C'X'" - RESERVED                                                 |
|         |      | .... ..1.  |     | WMNMML2G     | "BIT6" - SERVICE THIS CHAIN                                             |
|         |      | .... ...1  |     | WMNMML2H     | "BIT7" - LINE 2 AVAILABLE                                               |
| 101     | (65) | BITSTRING  | 1   | WMNMLT2      | - LINE TYPE FLAGS FOR SECOND MESSAGE                                    |
|         |      | 1... ....  |     | WMNMLT2A     | "BIT0" - CONTROL LINE                                                   |
|         |      | .1.. ....  |     | WMNMLT2B     | "BIT1" - LABEL LINE                                                     |
|         |      | ..1. ....  |     | WMNMLT2C     | "BIT2" - DATA LINE                                                      |
|         |      | ...1 ....  |     | WMNMLT2D     | "BIT3" - END INDICATOR                                                  |
|         |      | .... 1...  |     | WQERSV70     | "BIT4,,C'X'" - RESERVED                                                 |
|         |      | .... ..1.  |     | WQERSV71     | "BIT5,,C'X'" - RESERVED                                                 |
|         |      | .... ..1.  |     | WQERSV72     | "BIT6,,C'X'" - RESERVED                                                 |
|         |      | .... ...1  |     | WQERSV73     | "BIT7,,C'X'" - RESERVED                                                 |
| 102     | (66) | SIGNED     | 1   | WMNMLTH2     | LENGTH OF 1 MINOR WQE                                                   |
| 103     | (67) | SIGNED     | 1   | WMNMTL2      | - LENGTH OF SECOND MESSAGE TEXT                                         |
| 104     | (68) | CHARACTER  | 4   | WMNMHCT2     | - HARDCOPY ID FOR SECOND MESSAGE                                        |
| 108     | (6C) | CHARACTER  | 72  | WMNMTXT2     | - SECOND MESSAGE TEXT (MAX 72 BYTES)                                    |
| 180     | (B4) | BITSTRING  | 1   | WMNMST2      | - STATUS FLAGS Y02710                                                   |
|         |      | 1... ....  |     | WMNMTPD2     | "BIT0" - TPUT DONE Y02710                                               |
|         |      | .1.. ....  |     | WMNMTRC2     | "BIT1" - SECOND MINOR WQE HAS BEEN MASTER TRACED                        |
|         |      | ..1. ....  |     | WMNMWTP2     | "BIT2" - MINOR 2 TEXT HAS BEEN PUT/TPUT BY IEEJB840 - DON'T DO IT AGAIN |
|         |      | ...1 ....  |     | WQERSVC1     | "BIT3,,C'X'" - RESERVED Y02710                                          |
|         |      | .... 1...  |     | WQERSVC2     | "BIT4,,C'X'" - RESERVED Y02710                                          |
|         |      | .... .1..  |     | WQERSVC3     | "BIT5,,C'X'" - RESERVED Y02710                                          |
|         |      | .... ..1.  |     | WQERSVC4     | "BIT6,,C'X'" - RESERVED Y02710                                          |
|         |      | .... ...1  |     | WQERSVC5     | "BIT7,,C'X'" - RESERVED Y02710                                          |
| 181     | (B5) | BITSTRING  | 1   | WMN2MSF2     | RESERVED                                                                |
| 182     | (B6) | SIGNED     | 2   | WMNMUC2      | USE COUNT 2                                                             |

## WQE Cross Reference

| Offsets |      |            |     |              |                                                                   |
|---------|------|------------|-----|--------------|-------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                       |
| 184     | (B8) | SIGNED     | 4   | WMNMSEQ2     | SEQUENCE NUMBER (CONNECT ID)                                      |
| 188     | (BC) | CHARACTER  | 4   | WMN2XMOD (0) | COPY OF REQUEST FLAGS (CTXTRFLG) FROM THE WTO USER EXIT INTERFACE |
| 188     | (BC) | CHARACTER  | 3   | WMN2FLGS (0) | COMM TASK USER EXIT REQUESTS                                      |
| 188     | (BC) | BITSTRING  | 1   | WMN2RFB1     | REQUEST FLAGS BYTE ONE                                            |
|         |      | 1... ....  |     | WMN2RCMT     | "BIT0" CHANGE THE MESSAGE TEXT                                    |
|         |      | .... ...1  |     | WMN2RPML     | "BIT7" PROCESS MINOR LINES                                        |
| 189     | (BD) | BITSTRING  | 1   | WMN2RFB2     | REQUEST FLAGS BYTE TWO                                            |
| 190     | (BE) | BITSTRING  | 1   | WMN2RFB3     | RESERVED                                                          |
| 191     | (BF) | BITSTRING  | 1   | WMN2SUPB     | SUPPRESSION BYTE                                                  |
|         |      | 1... ....  |     | WMN2SNSV     | "BIT0" NOT SERVICED BY ANY WTO USER EXIT ROUTINE                  |
|         |      | .1.. ....  |     | WMN2SEER     | "BIT1" ESTAE ERROR IN IEAVX600                                    |
|         |      | ..1. ....  |     | WMN2SNSI     | "BIT2" NOT SERVICED BECAUSE OF AN INCOMPATIBLE REQUEST            |
|         |      | ...1 ....  |     | WMN2SAUT     | "BIT3" INDICATES AUTOMATION SPECIFIED                             |
|         |      | .... 1..   |     | WMN2SQED     | "BIT4" NOT QUEUED TO ANY CONSOLE                                  |
|         |      | .... .1..  |     | WMN2SSSI     | "BIT5" SUPPRESSED BY A SUBSYSTEM                                  |
|         |      | .... ..1.  |     | WMN2SWTO     | "BIT6" SUPPRESSED BY A WTO USER EXIT ROUTINE                      |
|         |      | .... ...1  |     | WMN2SMPF     | "BIT7" SUPPRESSED BY MPF                                          |
| 192     | (C0) | SIGNED     | 4   | WMNM1R99 (4) | RESERVED                                                          |
| 208     | (D0) | SIGNED     | 4   | WMNM2R99 (4) | RESERVED                                                          |
| 224     | (E0) | CHARACTER  | 128 | WMNMRSVD     | RESERVED                                                          |
| 224     | (E0) | X'160'     | 0   | WMNMSIZE     | ** - WMNM" - SIZE OF MINOR WQE ICB433                             |

| Offsets |     |            |     |               |                                |
|---------|-----|------------|-----|---------------|--------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim)    | Description                    |
| 0       | (0) | STRUCTURE  | 0   | WQESYAR       | , - ARRAY OF SAVED SYSIDS      |
| 0       | (0) | X'0'       | 0   | WQESYSTA      | **" - START OF ARRAY OF SYSIDS |
| 0       | (0) | BITSTRING  | 1   | WQESYARR (32) | ARRAY OF 256 BIT SYSIDS        |

## WQE Cross Reference

| Name     | Hex Offset | Hex Value | Name      | Hex Offset | Hex Value |
|----------|------------|-----------|-----------|------------|-----------|
| WMJAMRFA | 133        | 20        | WMJFLG11  | B5         | 80        |
| WMJAMRFO | 133        | 40        | WMJHASEL  | 13F        |           |
| WMJAMRFR | 133        | 2         | WMJIASEL  | 140        |           |
| WMJAUTOT | 112        |           | WMJJ3B1   | B3         | 10        |
| WMJAUTOV | B5         | 4         | WMJJ3B2   | B3         | 8         |
| WMJBENIP | 13C        |           | WMJJ3CON  | 120        |           |
| WMJCASEL | 13E        |           | WMJJ3MRC  | 11F        |           |
| WMJCHAR1 | B2         |           | WMJJ3RTC  | 11E        |           |
| WMJDLVRD | B3         | 80        | WMJM      | 0          | 0         |
| WMJDNDWQ | B3         | 40        | WMJMAECB  | 8C         |           |
| WMJDSQN  | DC         |           | WMJMAREA  | 5          |           |
| WMJEBUSY | C2         | 80        | WMJMASCBC | 13C        | 10        |
| WMJECONN | C2         | 10        | WMJMASID  | A1         |           |
| WMJECONS | C2         | 40        | WMJMAUTO  | 141        | 10        |
| WMJEDOMI | C2         | 20        | WMJMBUF   | A3         |           |
| WMJEMCO  | 11A        | 20        | WMJMBUFA  | A3         | 80        |
| WMJEMHI  | 11A        | 10        | WMJMBUFB  | A3         | 40        |
| WMJEMIN  | 11A        | 8         | WMJMBUFC  | A3         | 20        |
| WMJEMRN  | 11A        | 40        | WMJMBUFD  | A3         | 10        |
| WMJEMRY  | 11A        | 80        | WMJMBUFE  | A3         | 8         |
| WMJEPRIO | C2         | 4         | WMJMBUFF  | A3         | 4         |
| WMJERFS  | 11A        |           | WMJMBUG   | A3         | 2         |
| WMJERF2  | 11B        |           | WMJMCART  | 12A        |           |
| WMJERF3  | 11C        |           | WMJMCENT  | 15A        |           |
| WMJERF4  | 11D        |           | WMJMCE1   | C2         |           |
| WMJESJL  | 11C        | 80        | WMJMCE2   | C3         |           |
| WMJEWTOR | C2         | 8         | WMJMCNID  | FC         |           |
| WMJFLG1  | B5         |           | WMJMCNM   | C2         | 2         |



| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| WMJMCNME | 122        |           | WMJMHCID | 67         |           |
| WMJMCONS | 94         | 20        | WMJMHNDL | C1         | 80        |
| WMJMCS   | AC         |           | WMJMHUD  | D6         | 1         |
| WMJMCST  | BB         |           | WMJMISCC | 159        |           |
| WMJMCSE  | C2         |           | WMJMJBNM | 16         |           |
| WMJMCS1  | AC         |           | WMJMJTCB | BC         |           |
| WMJMCS1A | AC         | 80        | WMJMKEY  | F0         |           |
| WMJMCS1B | AC         | 40        | WMJMKQL1 | 150        |           |
| WMJMCS1C | AC         | 20        | WMJMKQL2 | 154        |           |
| WMJMCS1D | AC         | 10        | WMJMLCPL | C1         | 40        |
| WMJMCS1E | AC         | 8         | WMJMLENG | DA         |           |
| WMJMCS1F | AC         | 4         | WMJMLTOD | 15C        |           |
| WMJMCS1G | AC         | 2         | WMJMLTYA | 86         | 80        |
| WMJMCS1H | AC         | 1         | WMJMLTYB | 86         | 40        |
| WMJMCS2  | AD         |           | WMJMLTYC | 86         | 20        |
| WMJMCS2A | AD         | 80        | WMJMLTYD | 86         | 10        |
| WMJMCS2B | AD         | 40        | WMJMLTYP | 86         |           |
| WMJMCS2C | AD         | 20        | WMJMLTY1 | 86         |           |
| WMJMCS2D | AD         | 10        | WMJMLTY2 | 87         |           |
| WMJMCS2E | AD         | 8         | WMJMMAJD | 94         | 40        |
| WMJMCS2F | AD         | 4         | WMJMMFR  | 133        | 4         |
| WMJMCS2G | AD         | 2         | WMJMMIN  | 88         |           |
| WMJMCS2H | AD         | 1         | WMJMMISC | 141        |           |
| WMJMDATE | CC         |           | WMJMMLBC | D8         | 4         |
| WMJMDEC  | B8         |           | WMJMMLCE | D8         | 20        |
| WMJMDECA | B8         | 80        | WMJMMLLE | D8         | 10        |
| WMJMDECB | B8         | 40        | WMJMMLI  | D8         | 8         |
| WMJMDECC | B8         | 20        | WMJMMLIA | D8         | 40        |
| WMJMDECD | B8         | 10        | WMJMMLR  | D8         | 80        |
| WMJMDECE | B8         | 8         | WMJMMLVL | D8         |           |
| WMJMDECF | B8         | 4         | WMJMMLW  | 4          |           |
| WMJMDECG | B8         | 2         | WMJMMLWA | 4          | 80        |
| WMJMDECH | B8         | 1         | WMJMMLWB | 4          | 40        |
| WMJMDECI | B9         | 80        | WMJMMLWC | 4          | 20        |
| WMJMDECJ | B9         | 40        | WMJMMLWD | 4          | 10        |
| WMJMDECK | B9         | 20        | WMJMMLWE | 4          | 8         |
| WMJMDECL | B9         | 10        | WMJMMLWF | 4          | 4         |
| WMJMDECM | B9         | 8         | WMJMMLWG | 4          | 2         |
| WMJMDEC1 | B8         |           | WMJMMLWH | 4          | 1         |
| WMJMDEC2 | B9         |           | WMJMML1  | D8         |           |
| WMJMDEC3 | BA         |           | WMJMML2  | D9         |           |
| WMJMDMDB | 132        | 8         | WMJMMSGN | 90         |           |
| WMJMDOMD | 13C        | 80        | WMJMMT   | AE         |           |
| WMJMDS   | A0         |           | WMJMMT1  | AE         |           |
| WMJMDS   | A0         | 80        | WMJMMT1A | AE         | 80        |
| WMJMDS   | A0         | 40        | WMJMMT1B | AE         | 40        |
| WMJMDS   | A0         | 20        | WMJMMT1D | AE         | 10        |
| WMJMDS   | A0         | 10        | WMJMMT1F | AE         | 4         |
| WMJMDS   | A0         | 8         | WMJMMT2  | AF         |           |
| WMJMDS   | A0         | 4         | WMJMNB   | 13C        | 40        |
| WMJMDS   | A0         | 2         | WMJMNMOD | B5         | 20        |
| WMJMDS   | A0         | 1         | WMJMOJBI | 100        |           |
| WMJM     | 94         |           | WMJMOJBN | 108        |           |
| WMJM     | E0         |           | WMJM     | C          |           |
| WMJM     | 11A        |           | WMJM     | 15         |           |
| WMJM     | 0          |           | WMJM     | 1E         |           |
| WMJM     | 141        | 20        | WMJM     | 6B         |           |
| WMJM     | D4         |           | WMJM     | 159        | 40        |
| WMJM     | C1         |           | WMJM     | 110        |           |
| WMJM     | B3         |           | WMJM     | 94         | 10        |
| WMJM     | C1         | 20        | WMJM     | 133        | 10        |
| WMJM     | 14C        |           | WMJM     | D6         | 2         |
| WMJM     | 141        | 40        | WMJM     | 150        |           |
| WMJM     | 13C        | 20        | WMJM     | 159        | 20        |
| WMJM     | 141        | 8         | WMJM     | D5         | 4         |

## WQE Cross Reference

| Name        | Hex Offset | Hex Value | Name      | Hex Offset | Hex Value |
|-------------|------------|-----------|-----------|------------|-----------|
| WMJMRBCN    | D5         | 2         | WMJMRV1C  | C3         | 2         |
| WMJMRCCN    | D4         | 2         | WMJMRV1D  | C3         | 1         |
| WMJMRCDC    | D4         | 20        | WMJMRV9A  | 94         | 8         |
| WMJMRCFC    | D6         | 20        | WMJMRV9B  | C3         | 20        |
| WMJMRCKY    | D6         | 40        | WMJMRV9C  | C3         | 10        |
| WMJMRCMF    | D6         | 10        | WMJMRV99  | C3         | 40        |
| WMJMRCMT    | D4         | 80        | WMJMSAUT  | D7         | 10        |
| WMJMRCPT    | 138        |           | WMJMSEER  | D7         | 40        |
| WMJMRCRC    | D4         | 40        | WMJMSEQ   | A9         |           |
| WMJMRCRTA   | B0         | 80        | WMJMSEQ#  | A8         |           |
| WMJMRCRTB   | B0         | 40        | WMJMSEER  | 7A         |           |
| WMJMRCRTC   | B0         | 20        | WMJMSEERA | 7A         | 80        |
| WMJMRCRTD   | B0         | 10        | WMJMSEERB | 7A         | 40        |
| WMJMRCRTE   | B0         | 8         | WMJMSEERC | 7A         | 20        |
| WMJMRCRTF   | B0         | 4         | WMJMSEERD | 7A         | 10        |
| WMJMRCRTG   | B0         | 2         | WMJMSEERE | 7A         | 8         |
| WMJMRCRTH   | B0         | 1         | WMJMSEER1 | 7A         |           |
| WMJMRCRTI   | B1         | 80        | WMJMSEER2 | 7B         |           |
| WMJMRCRTJ   | B1         | 40        | WMJMSID   | A8         |           |
| WMJMRCRTK   | B1         | 20        | WMJMSIZE  | 15C        | 160       |
| WMJMRCRTL   | B1         | 10        | WMJMSPPF  | D7         | 1         |
| WMJMRCRTM   | B1         | 8         | WMJMNSNM  | C4         |           |
| WMJMRCRTN   | B1         | 4         | WMJMNSNI  | D7         | 20        |
| WMJMRCRTO   | B1         | 2         | WMJMNSNSV | D7         | 80        |
| WMJMRCRTP   | B1         | 1         | WMJMSPVD  | 159        | 80        |
| WMJMRCRT1   | B0         |           | WMJMSQED  | D7         | 8         |
| WMJMRCRT2   | B1         |           | WMJMSQMC  | B5         | 10        |
| WMJMRC1     | E0         |           | WMJMSSSI  | D7         | 4         |
| WMJMRC10    | E9         |           | WMJMSPUB  | D7         |           |
| WMJMRC11    | EA         |           | WMJMSTO   | D7         | 2         |
| WMJMRC12    | EB         |           | WMJMTCB   | A4         |           |
| WMJMRC13    | EC         |           | WMJMTOKN  | F8         |           |
| WMJMRC14    | ED         |           | WMJMTRAN  | C1         | 10        |
| WMJMRC15    | EE         |           | WMJMTRCD  | A3         | 1         |
| WMJMRC16    | EF         |           | WMJMTS    | D          |           |
| WMJMRC2     | E1         |           | WMJMSTNT  | 142        |           |
| WMJMRC3     | E2         |           | WMJMST2   | D1         |           |
| WMJMRC4     | E3         |           | WMJMST3   | 148        |           |
| WMJMRC5     | E4         |           | WMJMSTXT  | 1F         |           |
| WMJMRC6     | E5         |           | WMJMSTXTA | C3         | 80        |
| WMJMRC7     | E6         |           | WMJMSTXTL | 6          |           |
| WMJMRC8     | E7         |           | WMJMSTXTR | 132        | 80        |
| WMJMRC9     | E8         |           | WMJMUC    | A          |           |
| WMJMRCDTM   | D5         | 80        | WMJMUD    | 141        | 80        |
| WMJMRESA    | 6C         |           | WMJMUID   | B4         |           |
| WMJMRETN    | B5         | 40        | WMJMVRSN  | C0         |           |
| WMJMRFB1    | D4         |           | WMJMWAIT  | 94         | 80        |
| WMJMRFB2    | D5         |           | WMJMWTP   | 94         | 4         |
| WMJMRFB3    | D6         |           | WMJMWTPR  | 133        | 8         |
| WMJMRFHC    | D5         | 20        | WMJMXIF   | 132        |           |
| WMJMRFNC    | D5         | 10        | WMJMXIF1  | 132        |           |
| WMJMRFHCO   | D5         | 8         | WMJMXIF2  | 133        |           |
| WMJMRIDL    | 158        |           | WMJMXIRM  | 132        | 10        |
| WMJMRISS    | B5         | 1         | WMJMXMER  | 132        | 20        |
| WMJMNRRT    | D5         | 1         | WMJMXMOD  | D4         |           |
| WMJMROMS    | D5         | 40        | WMJMXNVT  | 132        | 40        |
| WMJMROPML   | D4         | 1         | WMJMXTUC  | 134        |           |
| WMJMROPQC   | D4         | 10        | WMJNOJLG  | B5         | 8         |
| WMJMROPQC   | D4         | 4         | WMJNSYL   | B3         | 20        |
| WMJMROPQUN  | D4         | 8         | WMJNWTP   | 11C        | 40        |
| WMJMROPRET  | D6         | 80        | WMJPPNA   | B5         | 2         |
| WMJMROPRT   | B0         |           | WMJQDSYS  | 13D        |           |
| WMJMROPRTCT | 8          |           | WMJQEXT   | C1         | 2         |
| WMJMROPV1A  | C3         | 8         | WMJQMCS   | C1         | 1         |
| WMJMROPV1B  | C3         | 4         | WMJQONLY  | 133        | 80        |

| Name     | Hex Offset | Hex Value | Name    | Hex Offset | Hex Value |
|----------|------------|-----------|---------|------------|-----------|
| WMJQTSYS | 133        | 1         | WMJRC39 | E4         | 2         |
| WMJQXSYS | C1         | 4         | WMJRC4  | E0         | 10        |
| WMJRANO  | D6         | 8         | WMJRC40 | E4         | 1         |
| WMJRAYS  | D6         | 4         | WMJRC41 | E5         | 80        |
| WMJRC1   | E0         | 80        | WMJRC42 | E5         | 40        |
| WMJRC10  | E1         | 40        | WMJRC43 | E5         | 20        |
| WMJRC100 | EC         | 10        | WMJRC44 | E5         | 10        |
| WMJRC101 | EC         | 8         | WMJRC45 | E5         | 8         |
| WMJRC102 | EC         | 4         | WMJRC46 | E5         | 4         |
| WMJRC103 | EC         | 2         | WMJRC47 | E5         | 2         |
| WMJRC104 | EC         | 1         | WMJRC48 | E5         | 1         |
| WMJRC105 | ED         | 80        | WMJRC49 | E6         | 80        |
| WMJRC106 | ED         | 40        | WMJRC5  | E0         | 8         |
| WMJRC107 | ED         | 20        | WMJRC50 | E6         | 40        |
| WMJRC108 | ED         | 10        | WMJRC51 | E6         | 20        |
| WMJRC109 | ED         | 8         | WMJRC52 | E6         | 10        |
| WMJRC11  | E1         | 20        | WMJRC53 | E6         | 8         |
| WMJRC110 | ED         | 4         | WMJRC54 | E6         | 4         |
| WMJRC111 | ED         | 2         | WMJRC55 | E6         | 2         |
| WMJRC112 | ED         | 1         | WMJRC56 | E6         | 1         |
| WMJRC113 | EE         | 80        | WMJRC57 | E7         | 80        |
| WMJRC114 | EE         | 40        | WMJRC58 | E7         | 40        |
| WMJRC115 | EE         | 20        | WMJRC59 | E7         | 20        |
| WMJRC116 | EE         | 10        | WMJRC6  | E0         | 4         |
| WMJRC117 | EE         | 8         | WMJRC60 | E7         | 10        |
| WMJRC118 | EE         | 4         | WMJRC61 | E7         | 8         |
| WMJRC119 | EE         | 2         | WMJRC62 | E7         | 4         |
| WMJRC12  | E1         | 10        | WMJRC63 | E7         | 2         |
| WMJRC120 | EE         | 1         | WMJRC64 | E7         | 1         |
| WMJRC121 | EF         | 80        | WMJRC65 | E8         | 80        |
| WMJRC122 | EF         | 40        | WMJRC66 | E8         | 40        |
| WMJRC123 | EF         | 20        | WMJRC67 | E8         | 20        |
| WMJRC124 | EF         | 10        | WMJRC68 | E8         | 10        |
| WMJRC125 | EF         | 8         | WMJRC69 | E8         | 8         |
| WMJRC126 | EF         | 4         | WMJRC7  | E0         | 2         |
| WMJRC127 | EF         | 2         | WMJRC70 | E8         | 4         |
| WMJRC128 | EF         | 1         | WMJRC71 | E8         | 2         |
| WMJRC13  | E1         | 8         | WMJRC72 | E8         | 1         |
| WMJRC14  | E1         | 4         | WMJRC73 | E9         | 80        |
| WMJRC15  | E1         | 2         | WMJRC74 | E9         | 40        |
| WMJRC16  | E1         | 1         | WMJRC75 | E9         | 20        |
| WMJRC17  | E2         | 80        | WMJRC76 | E9         | 10        |
| WMJRC18  | E2         | 40        | WMJRC77 | E9         | 8         |
| WMJRC19  | E2         | 20        | WMJRC78 | E9         | 4         |
| WMJRC2   | E0         | 40        | WMJRC79 | E9         | 2         |
| WMJRC20  | E2         | 10        | WMJRC8  | E0         | 1         |
| WMJRC21  | E2         | 8         | WMJRC80 | E9         | 1         |
| WMJRC22  | E2         | 4         | WMJRC81 | EA         | 80        |
| WMJRC23  | E2         | 2         | WMJRC82 | EA         | 40        |
| WMJRC24  | E2         | 1         | WMJRC83 | EA         | 20        |
| WMJRC25  | E3         | 80        | WMJRC84 | EA         | 10        |
| WMJRC26  | E3         | 40        | WMJRC85 | EA         | 8         |
| WMJRC27  | E3         | 20        | WMJRC86 | EA         | 4         |
| WMJRC28  | E3         | 10        | WMJRC87 | EA         | 2         |
| WMJRC29  | E3         | 8         | WMJRC88 | EA         | 1         |
| WMJRC3   | E0         | 20        | WMJRC89 | EB         | 80        |
| WMJRC30  | E3         | 4         | WMJRC9  | E1         | 80        |
| WMJRC31  | E3         | 2         | WMJRC90 | EB         | 40        |
| WMJRC32  | E3         | 1         | WMJRC91 | EB         | 20        |
| WMJRC33  | E4         | 80        | WMJRC92 | EB         | 10        |
| WMJRC34  | E4         | 40        | WMJRC93 | EB         | 8         |
| WMJRC35  | E4         | 20        | WMJRC94 | EB         | 4         |
| WMJRC36  | E4         | 10        | WMJRC95 | EB         | 2         |
| WMJRC37  | E4         | 8         | WMJRC96 | EB         | 1         |
| WMJRC38  | E4         | 4         | WMJRC97 | EC         | 80        |

## WQE Cross Reference

| Name      | Hex Offset | Hex Value | Name      | Hex Offset | Hex Value |
|-----------|------------|-----------|-----------|------------|-----------|
| WMJRC98   | EC         | 40        | WMN1SAUT  | 5F         | 10        |
| WMJRC99   | EC         | 20        | WMN1SEER  | 5F         | 40        |
| WMJSUPSJ  | C1         | 8         | WMN1SMPF  | 5F         | 1         |
| WMNM      | 0          | 0         | WMN1SNSI  | 5F         | 20        |
| WMNMHCT1  | 8          |           | WMN1SNSV  | 5F         | 80        |
| WMNMHCT2  | 68         |           | WMN1SQED  | 5F         | 8         |
| WMNMLTH1  | 6          |           | WMN1SSSI  | 5F         | 4         |
| WMNMLTH2  | 66         |           | WMN1SUPB  | 5F         |           |
| WMNMLT1   | 5          |           | WMN1SWTO  | 5F         | 2         |
| WMNMLT1A  | 5          | 80        | WMN1XMOD  | 5C         |           |
| WMNMLT1B  | 5          | 40        | WMN2FLGS  | BC         |           |
| WMNMLT1C  | 5          | 20        | WMN2MSF2  | B5         |           |
| WMNMLT1D  | 5          | 10        | WMN2RCMT  | BC         | 80        |
| WMNMLT2   | 65         |           | WMN2RFB1  | BC         |           |
| WMNMLT2A  | 65         | 80        | WMN2RFB2  | BD         |           |
| WMNMLT2B  | 65         | 40        | WMN2RFB3  | BE         |           |
| WMNMLT2C  | 65         | 20        | WMN2RPML  | BC         | 1         |
| WMNMLT2D  | 65         | 10        | WMN2SAUT  | BF         | 10        |
| WMNMML1   | 4          |           | WMN2SEER  | BF         | 40        |
| WMNMML1B  | 4          | 40        | WMN2SMPF  | BF         | 1         |
| WMNMML1C  | 4          | 20        | WMN2SNSI  | BF         | 20        |
| WMNMML1D  | 4          | 10        | WMN2SNSV  | BF         | 80        |
| WMNMML1E  | 4          | 8         | WMN2SQED  | BF         | 8         |
| WMNMML1F  | 4          | 4         | WMN2SSSI  | BF         | 4         |
| WMNMML1G  | 4          | 2         | WMN2SUPB  | BF         |           |
| WMNMML1H  | 4          | 1         | WMN2SWTO  | BF         | 2         |
| WMNMML2   | 64         |           | WMN2XMOD  | BC         |           |
| WMNMML2B  | 64         | 40        | WQE       | 0          |           |
| WMNMML2C  | 64         | 20        | WQEAMRFA  | 133        | 20        |
| WMNMML2D  | 64         | 10        | WQEAMRFO  | 133        | 40        |
| WMNMML2E  | 64         | 8         | WQEAMRFR  | 133        | 2         |
| WMNMML2G  | 64         | 2         | WQEASCB   | 13C        | 10        |
| WMNMML2H  | 64         | 1         | WQEASID   | A1         |           |
| WMNMMSF1  | 55         |           | WQEAUTH   | A0         | 1         |
| WMNMNX1   | 0          |           | WQEAUTO   | 141        | 10        |
| WMNMNX2   | 60         |           | WQEAUTOT  | 112        |           |
| WMNMRSVD  | E0         |           | WQEAUTOV  | B5         | 4         |
| WMNMRV9A  | 55         | 40        | WQEA VAIL | A3         |           |
| WMNMRV99  | 55         | 80        | WQEBENIP  | 13C        |           |
| WMNMSEQ1  | 58         |           | WQE BUFA  | A3         | 80        |
| WMNMSEQ2  | B8         |           | WQE BUFB  | A3         | 40        |
| WMNM SIZE | E0         | 160       | WQE BUFC  | A3         | 20        |
| WMNMST1   | 54         |           | WQE BUFD  | A3         | 10        |
| WMNMST2   | B4         |           | WQE BUFE  | A3         | 8         |
| WMNMTL1   | 7          |           | WQE BUFF  | A3         | 4         |
| WMNMTL2   | 67         |           | WQE BUFG  | A3         | 2         |
| WMNMTPD1  | 54         | 80        | WQECART   | 12A        |           |
| WMNMTPD2  | B4         | 80        | WQECASEL  | 13E        |           |
| WMNMTRAN  | 55         | 20        | WQECENT   | 15A        |           |
| WMNMTRC1  | 54         | 40        | WQECHAR1  | B2         |           |
| WMNMTRC2  | B4         | 40        | WQECNID   | FC         |           |
| WMNMTXT1  | C          |           | WQECNM    | C2         | 2         |
| WMNMTXT2  | 6C         |           | WQECNNME  | 122        |           |
| WMNMUC1   | 56         |           | WQEDATE   | CC         |           |
| WMNMUC2   | B6         |           | WQEDCA    | B8         | 80        |
| WMNMWTP1  | 54         | 20        | WQEDCB    | B8         | 40        |
| WMNMWTP2  | B4         | 20        | WQEDCC    | B8         | 20        |
| WMNM1R99  | C0         |           | WQEDCD    | B8         | 10        |
| WMNM2R99  | D0         |           | WQEDCE    | B8         | 8         |
| WMN1FLGS  | 5C         |           | WQEDCF    | B8         | 4         |
| WMN1RCMT  | 5C         | 80        | WQEDCG    | B8         | 2         |
| WMN1RFB1  | 5C         |           | WQEDCH    | B8         | 1         |
| WMN1RFB2  | 5D         |           | WQEDCI    | B9         | 80        |
| WMN1RFB3  | 5E         |           | WQEDCJ    | B9         | 40        |
| WMN1RPML  | 5C         | 1         | WQEDCK    | B9         | 20        |

| Name      | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|-----------|------------|-----------|----------|------------|-----------|
| WQEDCL    | B9         | 10        | WQEJ3B2  | B3         | 8         |
| WQEDCM    | B9         | 8         | WQEJ3CON | 120        |           |
| WQEDC1    | B8         |           | WQEJ3MRC | 11F        |           |
| WQEDC2    | B9         |           | WQEJ3RTC | 11E        |           |
| WQEDESCD  | B8         |           | WQEKEY   | F0         |           |
| WQEDLVRD  | B3         | 80        | WQEKQLST | 150        |           |
| WQEDMDB   | 132        | 8         | WQEKQL1  | 150        |           |
| WQEDNDWQ  | B3         | 40        | WQEKQL2  | 154        |           |
| WQEDOM    | A0         | 4         | WQEL     | 15C        | 160       |
| WQEDOMD   | 13C        | 80        | WQELENG  | DA         |           |
| WQEDSQN   | DC         |           | WQELKP   | 0          |           |
| WQEEBUSY  | C2         | 80        | WQELTOD  | 15C        |           |
| WQEECONN  | C2         | 10        | WQEMAJ   | 0          |           |
| WQEECONS  | C2         | 40        | WQEMCSA  | AC         | 80        |
| WQEEBCS   | C3         | 20        | WQEMCSB  | AC         | 40        |
| WQEEDOMI  | C2         | 20        | WQEMCSC  | AC         | 20        |
| WQEEIDBC  | C3         | 10        | WQEMCSCT | BB         |           |
| WQEEMCO   | 11A        | 20        | WQEMCSD  | AC         | 10        |
| WQEEMHI   | 11A        | 10        | WQEMCSE  | AC         | 8         |
| WQEEMIN   | 11A        | 8         | WQEMCSEF | C2         |           |
| WQEEMRN   | 11A        | 40        | WQEMCSE1 | C2         |           |
| WQEEMRY   | 11A        | 80        | WQEMCSE2 | C3         |           |
| WQEEPRIO  | C2         | 4         | WQEMCSF  | AC         |           |
| WQEERC    | E0         |           | WQEMCSFF | AC         | 4         |
| WQEERC1   | E0         |           | WQEMCSF1 | AC         |           |
| WQEERC10  | E9         |           | WQEMCSF2 | AD         |           |
| WQEERC11  | EA         |           | WQEMCSG  | AC         | 2         |
| WQEERC12  | EB         |           | WQEMCSH  | AC         | 1         |
| WQEERC13  | EC         |           | WQEMCSI  | AD         | 80        |
| WQEERC14  | ED         |           | WQEMCSJ  | AD         | 40        |
| WQEERC15  | EE         |           | WQEMCSK  | AD         | 20        |
| WQEERC16  | EF         |           | WQEMCSL  | AD         | 10        |
| WQEERC2   | E1         |           | WQEMCSM  | AD         | 8         |
| WQEERC3   | E2         |           | WQEMCSN  | AD         | 4         |
| WQEERC4   | E3         |           | WQEMCSO  | AD         | 2         |
| WQEERC5   | E4         |           | WQEMCSP  | AD         | 1         |
| WQEERC6   | E5         |           | WQEMFR   | 133        | 4         |
| WQEERC7   | E6         |           | WQEMIN   | 0          |           |
| WQEERC8   | E7         |           | WQEMISC  | 141        |           |
| WQEERC9   | E8         |           | WQEMISCC | 159        |           |
| WQEERFS   | 11A        |           | WQEMLBC  | D8         | 4         |
| WQEERF1   | 11A        |           | WQEMLCE  | D8         | 20        |
| WQEERF2   | 11B        |           | WQEMLE   | D8         | 10        |
| WQEERF3   | 11C        |           | WQEMLI   | D8         | 8         |
| WQEERF4   | 11D        |           | WQEMLIA  | D8         | 40        |
| WQEEJL    | 11C        | 80        | WQEMLR   | D8         | 80        |
| WQEEJLNC  | C3         | 4         | WQEMLVL  | D8         |           |
| WQEETXTA  | C3         | 80        | WQEML1   | D8         |           |
| WQEEWTOR  | C2         | 8         | WQEML2   | D9         |           |
| WQEFIDO   | 141        | 20        | WQEMSGTA | AE         | 80        |
| WQEFLG1   | B5         |           | WQEMSGTB | AE         | 40        |
| WQEFLG11  | B5         | 80        | WQEMSGTC | AE         | 20        |
| WQEFLG2   | C1         |           | WQEMSGTD | AE         | 10        |
| WQEFLG3   | B3         |           | WQEMSGTF | AE         | 4         |
| WQEFORN   | C1         | 20        | WQEMSGTP | AE         |           |
| WQEFOD    | 14C        |           | WQEMSGT1 | AE         |           |
| WQEFUDO   | 141        | 40        | WQEMSGT2 | AF         |           |
| WQEHASEL  | 13F        |           | WQEMTRCD | A3         | 1         |
| WQEHHC    | 141        | 8         | WQENBEW  | 13C        | 40        |
| WQEHNDL   | C1         | 80        | WQENBR   | 4          |           |
| WQEHUD    | D6         | 1         | WQENHABD | 13C        | 20        |
| WQEIASSEL | 140        |           | WQENMOD  | B5         | 20        |
| WQEJOBNM  | 16         |           | WQENQJLG | B5         | 8         |
| WQEJSTCB  | BC         |           | WQENSYL  | B3         | 20        |
| WQEJ3B1   | B3         | 10        | WQENWTP  | 11C        | 40        |

## WQE Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| WQEOJBID | 100        |           | WQERC127 | EF         | 2         |
| WQEOJBNM | 108        |           | WQERC128 | EF         | 1         |
| WQEORE   | A0         | 20        | WQERC13  | E1         | 8         |
| WQEPAD   | C          |           | WQERC14  | E1         | 4         |
| WQEPAD1  | 15         |           | WQERC15  | E1         | 2         |
| WQEPAD2  | 1E         |           | WQERC16  | E1         | 1         |
| WQEPAD3  | 9F         |           | WQERC17  | E2         | 80        |
| WQEPER3  | D1         |           | WQERC18  | E2         | 40        |
| WQEPANA  | B5         | 2         | WQERC19  | E2         | 20        |
| WQEPRIV  | 159        | 40        | WQERC2   | E0         | 40        |
| WQEPRTY  | 110        |           | WQERC20  | E2         | 10        |
| WQEPURGE | A0         | 80        | WQERC21  | E2         | 8         |
| WQEQD    | 133        | 10        | WQERC22  | E2         | 4         |
| WQEQDFHC | A0         | 10        | WQERC23  | E2         | 2         |
| WQEQDSYS | 13D        |           | WQERC24  | E2         | 1         |
| WQEQEXT  | C1         | 2         | WQERC25  | E3         | 80        |
| WQEQFHC  | A0         | 40        | WQERC26  | E3         | 40        |
| WQEQHCO  | D6         | 2         | WQERC27  | E3         | 20        |
| WQEQMCS  | C1         | 1         | WQERC28  | E3         | 10        |
| WQEQONLY | 159        | 20        | WQERC29  | E3         | 8         |
| WQEQONLY | 133        | 80        | WQERC3   | E0         | 20        |
| WQEQTSYS | 133        | 1         | WQERC30  | E3         | 4         |
| WQEQSYS  | C1         | 4         | WQERC31  | E3         | 2         |
| WQERANO  | D6         | 8         | WQERC32  | E3         | 1         |
| WQERAYS  | D6         | 4         | WQERC33  | E4         | 80        |
| WQERBCA  | D5         | 4         | WQERC34  | E4         | 40        |
| WQERBCN  | D5         | 2         | WQERC35  | E4         | 20        |
| WQERCCN  | D4         | 2         | WQERC36  | E4         | 10        |
| WQERCDC  | D4         | 20        | WQERC37  | E4         | 8         |
| WQERCFC  | D6         | 20        | WQERC38  | E4         | 4         |
| WQERCKY  | D6         | 40        | WQERC39  | E4         | 2         |
| WQERCMF  | D6         | 10        | WQERC4   | E0         | 10        |
| WQERCMT  | D4         | 80        | WQERC40  | E4         | 1         |
| WQERCRC  | D4         | 40        | WQERC41  | E5         | 80        |
| WQERC1   | E0         | 80        | WQERC42  | E5         | 40        |
| WQERC10  | E1         | 40        | WQERC43  | E5         | 20        |
| WQERC100 | EC         | 10        | WQERC44  | E5         | 10        |
| WQERC101 | EC         | 8         | WQERC45  | E5         | 8         |
| WQERC102 | EC         | 4         | WQERC46  | E5         | 4         |
| WQERC103 | EC         | 2         | WQERC47  | E5         | 2         |
| WQERC104 | EC         | 1         | WQERC48  | E5         | 1         |
| WQERC105 | ED         | 80        | WQERC49  | E6         | 80        |
| WQERC106 | ED         | 40        | WQERC5   | E0         | 8         |
| WQERC107 | ED         | 20        | WQERC50  | E6         | 40        |
| WQERC108 | ED         | 10        | WQERC51  | E6         | 20        |
| WQERC109 | ED         | 8         | WQERC52  | E6         | 10        |
| WQERC11  | E1         | 20        | WQERC53  | E6         | 8         |
| WQERC110 | ED         | 4         | WQERC54  | E6         | 4         |
| WQERC111 | ED         | 2         | WQERC55  | E6         | 2         |
| WQERC112 | ED         | 1         | WQERC56  | E6         | 1         |
| WQERC113 | EE         | 80        | WQERC57  | E7         | 80        |
| WQERC114 | EE         | 40        | WQERC58  | E7         | 40        |
| WQERC115 | EE         | 20        | WQERC59  | E7         | 20        |
| WQERC116 | EE         | 10        | WQERC6   | E0         | 4         |
| WQERC117 | EE         | 8         | WQERC60  | E7         | 10        |
| WQERC118 | EE         | 4         | WQERC61  | E7         | 8         |
| WQERC119 | EE         | 2         | WQERC62  | E7         | 4         |
| WQERC12  | E1         | 10        | WQERC63  | E7         | 2         |
| WQERC120 | EE         | 1         | WQERC64  | E7         | 1         |
| WQERC121 | EF         | 80        | WQERC65  | E8         | 80        |
| WQERC122 | EF         | 40        | WQERC66  | E8         | 40        |
| WQERC123 | EF         | 20        | WQERC67  | E8         | 20        |
| WQERC124 | EF         | 10        | WQERC68  | E8         | 10        |
| WQERC125 | EF         | 8         | WQERC69  | E8         | 8         |
| WQERC126 | EF         | 4         | WQERC7   | E0         | 2         |

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| WQERC70  | E8         | 4         | WQERPYIB | 144        |           |
| WQERC71  | E8         | 2         | WQERPYID | B6         |           |
| WQERC72  | E8         | 1         | WQERQPC  | D4         | 10        |
| WQERC73  | E9         | 80        | WQERQRC  | D4         | 4         |
| WQERC74  | E9         | 40        | WQERQUN  | D4         | 8         |
| WQERC75  | E9         | 20        | WQERRET  | D6         | 80        |
| WQERC76  | E9         | 10        | WQERSVA4 | 98         |           |
| WQERC77  | E9         | 8         | WQERSVA5 | 9C         |           |
| WQERC78  | E9         | 4         | WQERSVA6 | AE         | 20        |
| WQERC79  | E9         | 2         | WQERSVB1 | 54         | 10        |
| WQERC8   | E0         | 1         | WQERSVB2 | 54         | 8         |
| WQERC80  | E9         | 1         | WQERSVB3 | 54         | 4         |
| WQERC81  | EA         | 80        | WQERSVB4 | 54         | 2         |
| WQERC82  | EA         | 40        | WQERSVB5 | 54         | 1         |
| WQERC83  | EA         | 20        | WQERSVC1 | B4         | 10        |
| WQERC84  | EA         | 10        | WQERSVC2 | B4         | 8         |
| WQERC85  | EA         | 8         | WQERSVC3 | B4         | 4         |
| WQERC86  | EA         | 4         | WQERSVC4 | B4         | 2         |
| WQERC87  | EA         | 2         | WQERSVC5 | B4         | 1         |
| WQERC88  | EA         | 1         | WQERSVDB | 144        |           |
| WQERC89  | EB         | 80        | WQERSVD2 | 7C         |           |
| WQERC9   | E1         | 80        | WQERSVD6 | 94         | 2         |
| WQERC90  | EB         | 40        | WQERSVD7 | 94         | 1         |
| WQERC91  | EB         | 20        | WQERSVD8 | 95         |           |
| WQERC92  | EB         | 10        | WQERSV1B | C3         | 8         |
| WQERC93  | EB         | 8         | WQERSV1C | C3         | 2         |
| WQERC94  | EB         | 4         | WQERSV1D | C3         | 1         |
| WQERC95  | EB         | 2         | WQERSV13 | AE         | 8         |
| WQERC96  | EB         | 1         | WQERSV14 | AE         | 2         |
| WQERC97  | EC         | 80        | WQERSV15 | AE         | 1         |
| WQERC98  | EC         | 40        | WQERSV23 | B9         | 4         |
| WQERC99  | EC         | 20        | WQERSV24 | B9         | 2         |
| WQERDTM  | D5         | 80        | WQERSV25 | B9         | 1         |
| WQERETAN | B5         | 40        | WQERSV26 | BA         |           |
| WQERFB1  | D4         |           | WQERSV29 | 74         |           |
| WQERFB2  | D5         |           | WQERSV30 | 78         |           |
| WQERFB3  | D6         |           | WQERSV31 | 7A         | 4         |
| WQERFHC  | D5         | 20        | WQERSV32 | 7A         | 2         |
| WQERFLGS | D4         |           | WQERSV33 | 7A         | 1         |
| WQERHCO  | D5         | 8         | WQERSV34 | 84         |           |
| WQERIDL  | 158        |           | WQERSV35 | 86         | 8         |
| WQERISS  | B5         | 1         | WQERSV36 | 86         | 4         |
| WQERNHC  | D5         | 10        | WQERSV37 | 86         | 2         |
| WQERNRT  | D5         | 1         | WQERSV38 | 86         | 1         |
| WQEROMS  | D5         | 40        | WQERSV50 | AE         | 8         |
| WQEROUT  | B0         |           | WQERSV51 | AE         | 2         |
| WQEROUTA | B0         | 80        | WQERSV52 | AE         | 1         |
| WQEROUTB | B0         | 40        | WQERSV54 | B6         |           |
| WQEROUTC | B0         | 20        | WQERSV59 | B9         | 4         |
| WQEROUTD | B0         | 10        | WQERSV60 | B9         | 2         |
| WQEROUTE | B0         | 8         | WQERSV61 | B9         | 1         |
| WQEROUTF | B0         | 4         | WQERSV62 | 4          | 80        |
| WQEROUTG | B0         | 2         | WQERSV63 | 5          | 8         |
| WQEROUTH | B0         | 1         | WQERSV64 | 5          | 4         |
| WQEROUTI | B1         | 80        | WQERSV65 | 5          | 2         |
| WQEROUTJ | B1         | 40        | WQERSV66 | 5          | 1         |
| WQEROUTK | B1         | 20        | WQERSV68 | 64         | 80        |
| WQEROUTL | B1         | 10        | WQERSV69 | 64         | 4         |
| WQEROUTM | B1         | 8         | WQERSV70 | 65         | 8         |
| WQEROUTN | B1         | 4         | WQERSV71 | 65         | 4         |
| WQEROUTO | B1         | 2         | WQERSV72 | 65         | 2         |
| WQEROUTP | B1         | 1         | WQERSV73 | 65         | 1         |
| WQEROUT1 | B0         |           | WQERSV98 | C1         | 40        |
| WQEROUT2 | B1         |           | WQERSV99 | C3         | 40        |
| WQERPML  | D4         | 1         | WQERTCT  | 8          |           |

## WQE Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| WQESAUT  | D7         | 10        |
| WQESEER  | D7         | 40        |
| WQESEQ#  | A8         |           |
| WQESEQN  | A9         |           |
| WQESIZE  | 15C        | 160       |
| WQESMPF  | D7         | 1         |
| WQESNSI  | D7         | 20        |
| WQESNSV  | D7         | 80        |
| WQESPVD  | 159        | 80        |
| WQESP211 | C0         | 1         |
| WQESP220 | C0         | 2         |
| WQESP410 | C0         | 3         |
| WQESP422 | C0         | 4         |
| WQESP440 | C0         | 5         |
| WQESQED  | D7         | 8         |
| WQESQMC  | B5         | 10        |
| WQESRCPT | 138        |           |
| WQESSSI  | D7         | 4         |
| WQESUPB  | D7         |           |
| WQESUPSJ | C1         | 8         |
| WQESUSP  | A0         | 2         |
| WQESWTO  | D7         | 2         |
| WQESYAR  | 0          |           |
| WQESYARR | 0          |           |
| WQESYSID | A8         |           |
| WQESYSNM | C4         |           |
| WQESYSTA | 0          | 0         |
| WQETCB   | A4         |           |
| WQETOKN  | F8         |           |
| WQETRANS | C1         | 10        |
| WQETS    | D          |           |
| WQETSNT  | 142        |           |
| WQETS2   | D1         |           |
| WQETS2TH | D2         |           |
| WQETS3   | 148        |           |
| WQETXT   | 1F         |           |
| WQETXTL  | 9E         |           |
| WQETXTLN | 6          |           |
| WQEUCMID | B4         |           |
| WQEUD    | 141        | 80        |
| WQEUSE   | A          |           |
| WQEVRIID | C0         | 8         |
| WQEVRSN  | C0         |           |
| WQEWTOR  | A0         | 8         |
| WQEWTPR  | 133        | 8         |
| WQEXA    | A0         |           |
| WQEXIF   | 132        |           |
| WQEXIF1  | 132        |           |
| WQEXIF2  | 133        |           |
| WQEXIRM  | 132        | 10        |
| WQEXMER  | 132        | 20        |
| WQEXMOD  | D4         |           |
| WQEXNVT  | 132        | 40        |
| WQEXTTR  | 132        | 80        |
| WQEXTUSE | 134        |           |
| WQE32623 | C0         | 8         |



## WSAVTC Heading Information

**Common Name:** Work/Save Area Vector Tables  
**Macro ID:** IHAWSAVT  
**DSECT Name:** WSAC - CPU WSAVT  
**Owning Component:** Supervisor Control (SC1C5)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Key: 0  
 Residency: Below 16M line  
**Size:** WSAC - 184 bytes  
**Created by:** WSAC - IEAVNIP0, IEEVCPRA, IEAVWSAT (template only)  
**Pointed to by:** WSAC - LCCACPLUS field of the LCCA data area  
**Serialization:** WSAC - Disablement (in order to use save areas)  
**Function:** Provide mapping of CPU work/save area vector table and the template for this table.

### WSAVTC Map

| Offsets |      | Type/Value | Len | Name (Dim)   | Description                                                                                                                                                      |
|---------|------|------------|-----|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  |            |     |              |                                                                                                                                                                  |
| 0       | (0)  | STRUCTURE  | 0   | WSAC         | , - CPU WORK/SAVE AREA VECTOR TABLE LCCACPLUS POINTS TO THIS AREA                                                                                                |
| 0       | (0)  | ADDRESS    | 4   | WSACCWSA     | - ADDRESS OF LOW-LEVEL COMMON SAVE AREA (104 BYTES)                                                                                                              |
| 4       | (4)  | ADDRESS    | 4   | WSACGTF      | - ADDRESS OF GTF SAVEAREA (232 BYTES) (MDC309)                                                                                                                   |
| 8       | (8)  | ADDRESS    | 4   | WSACOPTM     | - ADDRESS OF SYSTEM RESOURCES MANAGER (SRM) SAVE AREA (9168 BYTES)                                                                                               |
| 12      | (C)  | ADDRESS    | 4   | WSACTIME     | - ADDRESS OF TIMER SAVE AREA (96 BYTES) MDC008                                                                                                                   |
| 16      | (10) | ADDRESS    | 4   | WSACACR      | - ADDRESS OF ALTERNATE CPU RECOVERY (ACR) SAVE AREA (3808 BYTES) (SAVE AREA FOR: HARDWARE AND SOFTWARE INFORMATION, NORMAL STACK, IEAVTRTH SAVE AREA - WSACRTMK) |
| 20      | (14) | ADDRESS    | 4   | WSACRTMK     | - ADDRESS OF RECOVERY TERMINATION MANAGER MACHINE CHECK HANDLER (RTM/MACHK) SAVE AREA (360 BYTES)                                                                |
| 24      | (18) | ADDRESS    | 4   | WSACIOS      | - ADDRESS OF IOS SAVE AREA (80 BYTES)                                                                                                                            |
| 28      | (1C) | ADDRESS    | 4   | WSACEDS0 (0) | - ADDRESS OF SCHEDULE SAVE AREA (OLD NAME) (MDC316)                                                                                                              |
| 28      | (1C) | ADDRESS    | 4   | WSACESC0     | ADDRESS OF SCHEDULE SAVE AREA (80 BYTES)                                                                                                                         |
| 32      | (20) | ADDRESS    | 4   | WSACMF1      | - ADDRESS OF MEASUREMENT FACILITY 1 SAVE AREA (144 BYTES) MDC019                                                                                                 |
| 36      | (24) | ADDRESS    | 4   | WSACABTM     | - ADDRESS OF ABTERM SAVE AREA (136 BYTES) MDC006                                                                                                                 |
| 40      | (28) | ADDRESS    | 4   | WSACDIVS     | - ADDRESS OF DATA IN VIRTUAL (DIV) WORK/SAVE AREA (8192 BYTES)                                                                                                   |
| 44      | (2C) | ADDRESS    | 4   | WSACLDWT     | - ADDRESS OF WORK/SAVE AREA FOR STATUS SAVING BY LOADWAIT/RESTART PROCESSING (640 BYTES)                                                                         |
| 48      | (30) | ADDRESS    | 4   | WSACSCPS     | - ADDRESS OF SUPERVISOR CONTROL PSEUDO SDWA. INITIALIZED BY THE SUPERVISOR ANALYSIS ROUTER, LOCK REPAIR AND GLOBAL RECOVERY. (1384 BYTES).                       |
| 52      | (34) | ADDRESS    | 4   | WSACVSM      | - ADDRESS OF VSM GLOBAL BRANCH ENTRY SAVE AREA (528 BYTES)                                                                                                       |
| 56      | (38) | ADDRESS    | 4   | WSACASMD     | - ADDRESS OF AUXILIARY STORAGE MANAGEMENT (ASM) DISABLED INTERRUPT EXIT (DIE) WORK/SAVE AREA (1024 BYTES) (MDC304)                                               |
| 60      | (3C) | ADDRESS    | 4   | WSACASMS     | - ADDRESS OF AUXILIARY STORAGE MANAGEMENT (ASM) SRB DRIVEN I/O ROUTINES WORK/SAVE AREA (1024 BYTES) (MDC305)                                                     |
| 64      | (40) | ADDRESS    | 4   | WSACRSM      | - ADDRESS OF REAL STORAGE MANAGER (RSM) WORK/SAVE AREA (48 PAGES)                                                                                                |

## WSAVTC Map

| Offsets |      |            |     |            |                                                                                                                       |
|---------|------|------------|-----|------------|-----------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                           |
| 68      | (44) | ADDRESS    | 4   | WSACDCCR   | - ADDRESS OF DISABLED CONSOLE COMMUNICATION WORK/SAVE AREA (100 BYTES) (MDC310)                                       |
| 72      | (48) | ADDRESS    | 4   | WSACSLIP   | - ADDRESS OF SLIP/PER WORK/SAVE (136 BYTES). (MDC317)                                                                 |
| 76      | (4C) | ADDRESS    | 4   | WSACEVRR   | - ADDRESS OF ASVT AND AFT RECONSTRUCT WORK/SAVE AREA (8 BYTES).                                                       |
| 80      | (50) | ADDRESS    | 4   | WSACRESF   | - ADDRESS OF RESTART FLIH WORK/SAVE AREA (1536 BYTES).                                                                |
| 84      | (54) | ADDRESS    | 4   | WSACMFA    | - ADDRESS OF MALFUNCTION ALERT WORK/SAVE AREA (256 BYTES).                                                            |
| 88      | (58) | ADDRESS    | 4   | WSACSCWA   | - ADDRESS OF SUPERVISOR CONTROL WORK/SAVE AREA (12288 BYTES)                                                          |
| 92      | (5C) | ADDRESS    | 4   | WSACTRCE   | - ADDRESS OF SYSTEM TRACE SERVICE ROUTINES WORK/SAVE AREA (512 BYTES)                                                 |
| 96      | (60) | ADDRESS    | 4   | WSACTAIM   | - ADDRESS OF RECURSIVE ACR MESSAGE WORK AREA (168 BYTES)                                                              |
| 100     | (64) | ADDRESS    | 4   | WSACRTMW   | - GENERAL RTM WORK/SAVE AREA (3272 BYTES).                                                                            |
| 104     | (68) | ADDRESS    | 4   | WSACSTKA   | - ABOVE FRR STACK WORK AREA FOR RTM                                                                                   |
| 108     | (6C) | ADDRESS    | 4   | WSACSTKB   | - BELOW FRR STACK WORK AREA FOR RTM                                                                                   |
| 112     | (70) | ADDRESS    | 4   | WSACASMR   | - ADDRESS OF SAVEAREA FOR ASM RECOVERY ROUTINES (1024 BYTES)                                                          |
| 116     | (74) | ADDRESS    | 4   | WSACSCFS   | - ADDRESS OF SUPERVISOR CONTROL FLIH SAVEAREA (1080 BYTES)                                                            |
| 120     | (78) | ADDRESS    | 4   | WSACSTPL   | - ADDRESS OF SUPERVISOR CONTROL'S SYSTEM TRACE PARARMETER LIST FOR DISABLED CALLERS (24 BYTES).                       |
| 124     | (7C) | ADDRESS    | 4   | WSACDESA   | - ADDRESS OF DIAGNOSTIC EXIT FACILITY SAVEAREA FOR DISABLED CALLERS (72 BYTES).                                       |
| 128     | (80) | ADDRESS    | 4   | WSACPAWA   | - ADDRESS OF THE PC/AUTH WORK AREA (3448 BYTES).                                                                      |
| 132     | (84) | ADDRESS    | 4   | WSACSYMR   | - ADDRESS OF THE SYMREC WORK SAVEAREA (3000 BYTES).                                                                   |
| 136     | (88) | ADDRESS    | 4   | WSACXCF    | - ADDRESS OF XCF WORK AREA (30000 BYTES).                                                                             |
| 140     | (8C) | ADDRESS    | 4   | WSACECLT   | - ADDRESS OF THE CURRENT LOCKS HELD TABLE EXTENSION (128 BYTES).                                                      |
| 144     | (90) | ADDRESS    | 4   | WSACTWA    | - ADDRESS OF ETR/MCH WORK SAVE AREA (8192 BYTES).                                                                     |
| 148     | (94) | ADDRESS    | 4   | WSACACR2   | - ADDRESS OF ALTERNATE CPU RECOVERY (ACR) WORK/SAVE AREA (1024 BYTES)                                                 |
| 152     | (98) | ADDRESS    | 4   | WSACBWTO   | - ADDRESS OF WORK/SAVE AREA FOR SYNCHRONOUS BRANCH-ENTRY WTO (5008 BYTES)                                             |
| 156     | (9C) | ADDRESS    | 4   | WSACTCR1   | - ADDRESS OF WORK/SAVE AREA FOR ACR RECOVERY (256 BYTES)                                                              |
| 160     | (A0) | ADDRESS    | 4   | WSACIXLS   | - ADDRESS OF CPU-RELATED SAVE AREA FOR USE BY THE SYSTEM LOCK MANAGER (10 pages)                                      |
| 164     | (A4) | ADDRESS    | 4   | WSACIXLL   | - ADDRESS OF CPU-RELATED SAVE AREA FOR USE BY THE HARDWARE INTERFACE FUNCTION OF THE SYSTEM LOCK MANAGER (2000 BYTES) |
| 168     | (A8) | ADDRESS    | 4   | WSACEGR    | - ADDRESS OF CPU-RELATED SAVE AREA FOR USE BY IEAVEGR (9216 BYTES)                                                    |
| 172     | (AC) | ADDRESS    | 4   | WSACSCHD   | - ADDRESS OF CPU WORK/SAVE AREA FOR SRB SCHEDULER (16 BYTES).                                                         |
| 176     | (B0) | ADDRESS    | 4   | WSACDIRB   | - Address of CPU WORK/SAVE AREAS FOR IEAVDIRB (168 BYTES).                                                            |
| 180     | (B4) | ADDRESS    | 4   | WSACMCH    | - ADDRESS OF CPU WORK/SAVE AREA FOR MACHINE CHECK HANDLER (628 BYTES)                                                 |
| 184     | (B8) | ADDRESS    | 4   | WSACXCF2   | - ADDRESS OF XCF WORK AREA2 (30000 BYTES).                                                                            |
| 188     | (BC) | ADDRESS    | 4   | WSACREMD   | - Address of Registration Services Retrieve exit manager data. (1024 Bytes)                                           |
| 192     | (C0) | ADDRESS    | 4   | WSACJOIN   | - Address of CPU Work/Save Area for IEAVJOIN/IEAVLEAV (144 bytes)                                                     |
| 196     | (C4) | ADDRESS    | 4   | WSACVAR8   | - ADDRESS OF REAL ADDRESS CONVERSION ROUTINE (IEAVAR08) WORK AREA. (32 BYTES).                                        |
| 200     | (C8) | ADDRESS    | 4   | WSACPR     | - Address of PRDA work/savearea used by Pause/Release routines. 1024 bytes                                            |
| 204     | (CC) | ADDRESS    | 4   | WSACETPT   | - Address of work/savearea used by IEAVETPT. 128 bytes                                                                |
| 208     | (D0) | ADDRESS    | 4   | WSACTRER   | - Address of work/savearea used by IEAVTRER 256 bytes                                                                 |

| Offsets |      |            |     |            |                                                                                |
|---------|------|------------|-----|------------|--------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                    |
| 212     | (D4) | ADDRESS    | 4   | WSAC2RER   | - Address of recursive work/savearea for IEAVTRER - used by IGFPMRTH 256 bytes |
| 216     | (D8) | ADDRESS    | 4   | WSAC3RER   | - Address of recursive work/savearea for IEAVTRER - used by IEAVTEXS 256 bytes |

### WSAVTC Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| WSAC     | 0          |           | WSAC2RER | D4         |           |
| WSACABTM | 24         |           | WSAC3RER | D8         |           |
| WSACACR  | 10         |           |          |            |           |
| WSACACR2 | 94         |           |          |            |           |
| WSACASMD | 38         |           |          |            |           |
| WSACASMR | 70         |           |          |            |           |
| WSACASMS | 3C         |           |          |            |           |
| WSACBWTO | 98         |           |          |            |           |
| WSACCWSA | 0          |           |          |            |           |
| WSACDCCR | 44         |           |          |            |           |
| WSACDESA | 7C         |           |          |            |           |
| WSACDIRB | B0         |           |          |            |           |
| WSACDIVS | 28         |           |          |            |           |
| WSACECLT | 8C         |           |          |            |           |
| WSACEDS0 | 1C         |           |          |            |           |
| WSACEGR  | A8         |           |          |            |           |
| WSACESC0 | 1C         |           |          |            |           |
| WSACETPT | CC         |           |          |            |           |
| WSACEVRR | 4C         |           |          |            |           |
| WSACGTF  | 4          |           |          |            |           |
| WSACIOS  | 18         |           |          |            |           |
| WSACIXLL | A4         |           |          |            |           |
| WSACIXLS | A0         |           |          |            |           |
| WSACJOIN | C0         |           |          |            |           |
| WSACLDWT | 2C         |           |          |            |           |
| WSACMCH  | B4         |           |          |            |           |
| WSACMFA  | 54         |           |          |            |           |
| WSACMF1  | 20         |           |          |            |           |
| WSACOPTM | 8          |           |          |            |           |
| WSACPAWA | 80         |           |          |            |           |
| WSACPR   | C8         |           |          |            |           |
| WSACREMD | BC         |           |          |            |           |
| WSACRESF | 50         |           |          |            |           |
| WSACRSM  | 40         |           |          |            |           |
| WSACRTMK | 14         |           |          |            |           |
| WSACRTMW | 64         |           |          |            |           |
| WSACSCFS | 74         |           |          |            |           |
| WSACSCHD | AC         |           |          |            |           |
| WSACSCPS | 30         |           |          |            |           |
| WSACSCWA | 58         |           |          |            |           |
| WSACSLIP | 48         |           |          |            |           |
| WSACSTKA | 68         |           |          |            |           |
| WSACSTKB | 6C         |           |          |            |           |
| WSACSTPL | 78         |           |          |            |           |
| WSACSYMR | 84         |           |          |            |           |
| WSACTAIM | 60         |           |          |            |           |
| WSACTCR1 | 9C         |           |          |            |           |
| WSACTIME | C          |           |          |            |           |
| WSACTRCE | 5C         |           |          |            |           |
| WSACTRER | D0         |           |          |            |           |
| WSACTWA  | 90         |           |          |            |           |
| WSACVAR8 | C4         |           |          |            |           |
| WSACVSM  | 34         |           |          |            |           |
| WSACXCF  | 88         |           |          |            |           |
| WSACXCF2 | B8         |           |          |            |           |



## WSAVTC Heading Information

**Common Name:** Work/Save Area Vector Tables  
**Macro ID:** IHAWSAVT  
**DSECT Name:** WSAC - CPU WSAVT  
**Owning Component:** Supervisor Control (SC1C5)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Key: 0  
 Residency: Below 16M line  
**Size:** WSAC - 184 bytes  
**Created by:** WSAC - IEAVNIP0, IEEVCPRA, IEAVWSAT (template only)  
**Pointed to by:** WSAC - LCCACPLUS field of the LCCA data area  
**Serialization:** WSAC - Disablement (in order to use save areas)  
**Function:** Provide mapping of CPU work/save area vector table and the template for this table.

### WSAVTG Map

| Offsets |      |            |     |            |                                                                                          |
|---------|------|------------|-----|------------|------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                              |
| 0       | (0)  | STRUCTURE  | 0   | WSAG       | , - GLOBAL WORK/SAVE AREA VECTOR TABLE CVTSPSA POINTS TO THIS AREA                       |
| 0       | (0)  | ADDRESS    | 4   | WSAGR000   | - FIELD CURRENTLY RESERVED (0 BYTES) -                                                   |
| 4       | (4)  | ADDRESS    | 4   | WSAGGMFM   | - RESERVED FOR S/370 COMPATIBILITY (0 BYTES) (MDC301)                                    |
| 8       | (8)  | ADDRESS    | 4   | WSAGSTSI   | - Store system info area                                                                 |
| 12      | (C)  | ADDRESS    | 4   | WSAGR00C   | - RESERVED.                                                                              |
| 16      | (10) | ADDRESS    | 4   | WSAGR010   | - RESERVED.                                                                              |
| 20      | (14) | ADDRESS    | 4   | WSAGR014   | - RESERVED.                                                                              |
| 24      | (18) | ADDRESS    | 4   | WSAGR018   | - RESERVED.                                                                              |
| 28      | (1C) | ADDRESS    | 4   | WSAGR01C   | - RESERVED.                                                                              |
| 32      | (20) | ADDRESS    | 4   | WSAGR020   | - RESERVED. (MDC318)                                                                     |
| 36      | (24) | ADDRESS    | 4   | WSAGR024   | - RESERVED.                                                                              |
| 40      | (28) | ADDRESS    | 4   | WSAGR028   | - RESERVED.                                                                              |
| 44      | (2C) | ADDRESS    | 4   | WSAGR02C   | - RESERVED.                                                                              |
| 48      | (30) | ADDRESS    | 4   | WSAGDCCR   | - ADDRESS OF WORK/SAVE AREA FOR DISABLED COMMUNICATION (6136 BYTES) (MDC313)             |
| 52      | (34) | ADDRESS    | 4   | WSAGRESF   | - ADDRESS OF WORK/SAVE AREA FOR RESTART FLIH (456) BYTES) (MDC313)                       |
| 56      | (38) | ADDRESS    | 4   | WSAGR038   | - RESERVED.                                                                              |
| 60      | (3C) | ADDRESS    | 4   | WSAGTIME   | - ADDRESS OF TIMER SAVE AREA (128 BYTES)                                                 |
| 64      | (40) | ADDRESS    | 4   | WSAGTIM2   | - ADDRESS OF TIMER SLIH WORK AREA (24 BYTES).                                            |
| 68      | (44) | ADDRESS    | 4   | WSAGR044   | - Reserved.                                                                              |
| 72      | (48) | ADDRESS    | 4   | WSAGSRM1   | - ADDRESS OF GENERAL REGISTER SAVE AREA FOR SRM - SERIALIZED BY THE SRM LOCK. (72 BYTES) |

## WSAVTG Cross Reference

### WSAVTG Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| WSAG     | 0             |              |
| WSAGDCCR | 30            |              |
| WSAGGMFM | 4             |              |
| WSAGRESF | 34            |              |
| WSAGR00C | C             |              |
| WSAGR000 | 0             |              |
| WSAGR01C | 1C            |              |
| WSAGR010 | 10            |              |
| WSAGR014 | 14            |              |
| WSAGR018 | 18            |              |
| WSAGR02C | 2C            |              |
| WSAGR020 | 20            |              |
| WSAGR024 | 24            |              |
| WSAGR028 | 28            |              |
| WSAGR038 | 38            |              |
| WSAGR044 | 44            |              |
| WSAGSRM1 | 48            |              |
| WSAGSTSI | 8             |              |
| WSAGTIME | 3C            |              |
| WSAGTIM2 | 40            |              |

## WSAVTC Heading Information

**Common Name:** Work/Save Area Vector Tables  
**Macro ID:** IHAWSAVT  
**DSECT Name:** WSAC - CPU WSAVT  
**Owning Component:** Supervisor Control (SC1C5)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Key: 0  
 Residency: Below 16M line  
**Size:** WSAC - 184 bytes  
**Created by:** WSAC - IEAVNIP0, IEEVCPRA, IEAVWSAT (template only)  
**Pointed to by:** WSAC - LCCACBUS field of the LCCA data area  
**Serialization:** WSAC - Disablement (in order to use save areas)  
**Function:** Provide mapping of CPU work/save area vector table and the template for this table.

## WSAVTL Map

| Offsets |      | Type/Value | Len | Name (Dim) | Description                                                                    |
|---------|------|------------|-----|------------|--------------------------------------------------------------------------------|
| Dec     | Hex  |            |     |            |                                                                                |
| 0       | (0)  | STRUCTURE  | 0   | WSAL       | , - LOCAL WORK/SAVE AREA VECTOR TABLE ASXBSPPSA POINTS TO THIS AREA            |
| 0       | (0)  | ADDRESS    | 4   | WSALCWSA   | - ADDRESS OF LOW-LEVEL COMMON SAVE AREA (104 BYTES)                            |
| 4       | (4)  | ADDRESS    | 4   | WSALVALC   | - ADDRESS OF VALIDITY CHECK SAVE AREA (64 BYTES)                               |
| 8       | (8)  | ADDRESS    | 4   | WSALRTM2   | - ADDRESS OF RECOVERY TERMINATION MANAGER (RTM) SAVE AREA (80 BYTES)           |
| 12      | (C)  | ADDRESS    | 4   | WSALSMDP   | - ADDRESS OF SVC DUMP WORK AREA (104 BYTES)                                    |
| 16      | (10) | ADDRESS    | 4   | WSALABTM   | - ADDRESS OF ABTERM SAVE AREA (144 BYTES)                                      |
| 20      | (14) | ADDRESS    | 4   | WSALCIRB   | - ADDRESS OF CIRB SAVE AREA (80 BYTES) MDC005                                  |
| 24      | (18) | ADDRESS    | 4   | WSALS2EE   | - ADDRESS OF STAGE 2 EXIT EFFECTOR SAVE AREA (80 BYTES)                        |
| 28      | (1C) | ADDRESS    | 4   | WSALEXIT   | - ADDRESS OF EXIT (SVC 3) SAVE AREA (160 BYTES)                                |
| 32      | (20) | ADDRESS    | 4   | WSALPOST   | - ADDRESS OF POST SAVE AREA (272 BYTES) (MDC303)                               |
| 36      | (24) | ADDRESS    | 4   | WSALWAIT   | - ADDRESS OF WAIT SAVE AREA (120 BYTES)                                        |
| 40      | (28) | ADDRESS    | 4   | WSALSTAT   | - ADDRESS OF STATUS SAVE AREA (384 BYTES)                                      |
| 44      | (2C) | ADDRESS    | 4   | WSALSTAE   | - ADDRESS OF STAE SAVE AREA (112 BYTES)                                        |
| 48      | (30) | ADDRESS    | 4   | WSALEVNT   | - ADDRESS OF EVENTS (FAST MULTIPLE WAIT) SAVE AREA (72 BYTES) (MDC300)         |
| 52      | (34) | ADDRESS    | 4   | WSALRSM    | - ADDRESS OF REAL STORAGE MANAGEMENT (RSM) SAVE AREA (216 BYTES)               |
| 56      | (38) | ADDRESS    | 4   | WSALACHP   | - ADDRESS OF ASCB CHAP ROUTINE SAVE AREA (72 BYTES)                            |
| 60      | (3C) | ADDRESS    | 4   | WSALCSV    | - ADDRESS OF CONTENTS SUPERVISOR SAVE AREA (1664 BYTES)                        |
| 64      | (40) | ADDRESS    | 4   | WSALISEC   | - ADDRESS OF INTERSECT ROUTINE SAVE AREA (64 BYTES)                            |
| 68      | (44) | ADDRESS    | 4   | WSALSTWA   | - ADDRESS OF STATUS WORK/SAVE AREA FOR STOP/RESET INTERFACE (56 BYTES)         |
| 72      | (48) | ADDRESS    | 4   | WSALLSM    | - ADDRESS OF GPR SAVE AREA USED WHEN CALLING LINKAGE STACK SERVICES (72 BYTES) |
| 76      | (4C) | ADDRESS    | 4   | WSALS3EE   | - ADDRESS OF STAGE III EXIT EFFECTOR WORK AREA (168 BYTES).                    |
| 80      | (50) | ADDRESS    | 4   | WSALJSIO   | - ADDRESS OF IEAVJSIO WORK/SAVE AREA (1024 BYTES).                             |
| 84      | (54) | ADDRESS    | 4   | WSALJIOC   | - ADDRESS OF IEAVJIOC WORK/SAVE AREA (1024 BYTES).                             |
| 88      | (58) | ADDRESS    | 4   | WSALJSTL   | - ADDRESS OF IEAVJSTL WORK/SAVE AREA (1024 BYTES).                             |
| 92      | (5C) | ADDRESS    | 4   | WSALXPDA   | - ADDRESS OF IEAVXPDA WORK/SAVE AREA (40 BYTES).                               |
| 96      | (60) | ADDRESS    | 4   | WSALEIRB   | - ADDRESS OF IEAVEIRB WORK/SAVE AREA (256 BYTES).                              |
| 100     | (64) | ADDRESS    | 4   | WSALEXPM   | - ADDRESS OF IEAVEXPM WORK/SAVE AREA (256 BYTES).                              |

## WSAVTL Cross Reference

### WSAVTL Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| WSAL     | 0             |              |
| WSALABTM | 10            |              |
| WSALACHP | 38            |              |
| WSALCIRB | 14            |              |
| WSALCSV  | 3C            |              |
| WSALCWSA | 0             |              |
| WSALEIRB | 60            |              |
| WSALEVNT | 30            |              |
| WSALEXIT | 1C            |              |
| WSALEXPM | 64            |              |
| WSALISEC | 40            |              |
| WSALJIOC | 54            |              |
| WSALJSIO | 50            |              |
| WSALJSTL | 58            |              |
| WSALLSM  | 48            |              |
| WSALPOST | 20            |              |
| WSALRSM  | 34            |              |
| WSALRTM2 | 8             |              |
| WSALSDMP | C             |              |
| WSALSTAE | 2C            |              |
| WSALSTAT | 28            |              |
| WSALSTWA | 44            |              |
| WSALS2EE | 18            |              |
| WSALS3EE | 4C            |              |
| WSALVALC | 4             |              |
| WSALWAIT | 24            |              |
| WSALXPDA | 5C            |              |



## WSMA Heading Information

**Common Name:** Wait State Message Area  
**Macro ID:** IHAWSMA  
**DSECT Name:** WSMA  
**Owning Component:** Communications Task (SC1CK)  
**Eye-Catcher ID:** WSMA  
 Offset: 0  
 Length: 4  
**Storage Attributes:** Subpool: 239  
 Key: 0  
 Residency: Any  
**Size:** 1144 bytes  
**Created by:** IEAVNPC6  
**Pointed to by:** CVTWSMA IN CVT  
**Serialization:** IEAVBWTO OBTAINS RESTART RESOURCE  
**Function:** CONTAINS LINES OF THE MESSAGE ASSOCIATED WITH A SYSTEM WAIT STATE UP TO A MAXIMUM NUMBER OF LINES DEFINED BY WSMAMAX#. STORAGE CAN BE DISPLAYED BY THE OPERATOR FROM SYSTEM CONSOLE

### WSMA Map

| Offsets |       |            |     |            |                                       |
|---------|-------|------------|-----|------------|---------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim) | Description                           |
| 0       | (0)   | STRUCTURE  | 0   | WSMA       | , - START OF WSMA                     |
| 0       | (0)   | CHARACTER  | 4   | WSMAACR    | ACRONYM 'WSMA'                        |
| 4       | (4)   | BITSTRING  | 1   | WSMAVRN    | VERSION LEVEL                         |
| 4       | (4)   | X'1'       | 0   | WSMARID    | "WSMA410" CURRENT VERSION LEVEL       |
| 4       | (4)   | X'1'       | 0   | WSMA410    | "1" VERSION LEVEL FOR SP410           |
| 5       | (5)   | BITSTRING  | 1   | WSMACNVL   | CURRENT NUMBER VALID LINES            |
| 6       | (6)   | CHARACTER  | 2   | WSMARSV    | RESERVED                              |
| 8       | (8)   | CHARACTER  | 8   | WSMADATE   | DATE MESSAGE WAS ISSUED               |
| 16      | (10)  | CHARACTER  | 8   | WSMATIME   | TIME MESSAGE WAS ISSUED               |
| 24      | (18)  | CHARACTER  | 80  | WSMATXT1   | FIRST LINE OF MESSAGE TEXT            |
| 104     | (68)  | CHARACTER  | 80  | WSMATXT2   | SECOND LINE OF MESSAGE TEXT           |
| 184     | (B8)  | CHARACTER  | 80  | WSMATXT3   | THIRD LINE OF MESSAGE TEXT            |
| 264     | (108) | CHARACTER  | 80  | WSMATXT4   | FOURTH LINE OF MESSAGE TEXT           |
| 344     | (158) | CHARACTER  | 80  | WSMATXT5   | FIFTH LINE OF MESSAGE TEXT            |
| 424     | (1A8) | CHARACTER  | 80  | WSMATXT6   | SIXTH LINE OF MESSAGE TEXT            |
| 504     | (1F8) | CHARACTER  | 80  | WSMATXT7   | SEVENTH LINE OF MESSAGE TEXT          |
| 584     | (248) | CHARACTER  | 80  | WSMATXT8   | EIGHT LINE OF MESSAGE TEXT            |
| 664     | (298) | CHARACTER  | 80  | WSMATXT9   | NINTH LINE OF MESSAGE TEXT            |
| 744     | (2E8) | CHARACTER  | 80  | WSMATXTA   | TENTH LINE OF MESSAGE TEXT            |
| 824     | (338) | CHARACTER  | 80  | WSMATXTB   | ELEVENTH LINE OF MESSAGE TEXT         |
| 904     | (388) | CHARACTER  | 80  | WSMATXTC   | TWELTH LINE OF MESSAGE TEXT           |
| 984     | (3D8) | CHARACTER  | 80  | WSMATXTD   | THIRTEENTH LINE OF MESSAGE TEXT       |
| 1064    | (428) | CHARACTER  | 80  | WSMATXTE   | FOURTEENTH LINE OF MESSAGE TEXT       |
| 1064    | (428) | X'478'     | 0   | WSMAEND    | *** END OF WSMA                       |
| 1064    | (428) | X'478'     | 0   | WSMALN     | "WSMAEND-WSMA" LENGTH OF ENTIRE BLOCK |
| 1064    | (428) | X'E'       | 0   | WSMAMAX#   | "14" MAXIMUM NUMBER OF LINES          |
| 1064    | (428) | X'50'      | 0   | WSMAMLEN   | "80" MAXIMUM LENGTH OF LINES          |

## WSMA Cross Reference

### WSMA Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| WSMA     | 0             |              |
| WSMAACR  | 0             | E6E2D4C1     |
| WSMACNVL | 5             | 0            |
| WSMADATE | 8             | 40404040     |
| WSMAEND  | 428           | 478          |
| WSMALN   | 428           | 478          |
| WSMAMAX# | 428           | E            |
| WSMAMLEN | 428           | 50           |
| WSMARID  | 4             | 1            |
| WSMARSV  | 6             | 4040         |
| WSMATIME | 10            | 40404040     |
| WSMATXTA | 2E8           | 40404040     |
| WSMATXTB | 338           | 40404040     |
| WSMATXTC | 388           | 40404040     |
| WSMATXTD | 3D8           | 40404040     |
| WSMATXTE | 428           | 40404040     |
| WSMATXT1 | 18            | 40404040     |
| WSMATXT2 | 68            | 40404040     |
| WSMATXT3 | B8            | 40404040     |
| WSMATXT4 | 108           | 40404040     |
| WSMATXT5 | 158           | 40404040     |
| WSMATXT6 | 1A8           | 40404040     |
| WSMATXT7 | 1F8           | 40404040     |
| WSMATXT8 | 248           | 40404040     |
| WSMATXT9 | 298           | 40404040     |
| WSMAVRN  | 4             | 0            |
| WSMA410  | 4             | 1            |

## WWB Heading Information

**Common Name:** Write To Operator Wait Block Mapping  
**Macro ID:** IHAWWB  
**DSECT Name:** WWB  
**Owning Component:** Communications Task (SC1CK)  
**Eye-Catcher ID:** 'WWB '  
 Offset: 24  
 Length: 4 Bytes  
**Storage Attributes:** Subpool: 231  
 Key: 0  
**Size:** 32 Bytes  
**Created by:** IEAVVWTO, IEAVMWTO  
**Pointed to by:** UCMWECBH (for WQE WWBs), UCMOECBH (for ORE WWBs)  
**Serialization:** None  
**Function:** Used to wait for a WQE or ORE to be freed.  
 If a WQE is needed, a WWB is placed on the doubly linked chain pointed at by UCMWECBH and UCMWECBT. The program needing the WQE then waits on the ECB part of the WWB. When a WQE is freed and the WWB is at the top of the chain, the ECB is posted. If an ORE is needed then a WWB is placed on the chain pointed at by UCMOECBH and UCMOECBT.

## WWB Map

| Offsets |      |            |     |            |                                                                                                                                           |
|---------|------|------------|-----|------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                               |
| 0       | (0)  | STRUCTURE  | 0   | WWB        |                                                                                                                                           |
| 0       | (0)  | SIGNED     | 4   | WWBFDPT    | FORWARD CHAIN POINTER                                                                                                                     |
| 4       | (4)  | SIGNED     | 4   | WWBBCKPT   | BACKWARD CHAIN POINTER                                                                                                                    |
| 8       | (8)  | SIGNED     | 4   | WWBASC     | ADDRESS OF USERS ASCB                                                                                                                     |
| 12      | (C)  | SIGNED     | 4   | WWBTBAD    | ADDRESS OF USERS TCB                                                                                                                      |
| 16      | (10) | CHARACTER  | 1   | WWBFLGS    | FLAGS BYTE                                                                                                                                |
|         |      | 1... ....  |     | WWBPOSTD   | "X'80" IF ON THEN ECB HAS BEEN POSTED                                                                                                     |
|         |      | .1... .... |     | WWBUSE0    | "X'40" This WWB represents an *authorized* caller and reply ID<br>0 can be used to satisfy this request (for WWBs on UCMOECBH queue only) |
| 17      | (11) | CHARACTER  | 1   | WWBVRSN    | VERSION ID                                                                                                                                |
| 17      | (11) | X'1'       | 0   | WWBS220    | "1" LEVEL OS/VS2 JBB2220                                                                                                                  |
| 17      | (11) | X'1'       | 0   | WWBVERN    | "WWBS220" THE CURRENT VERSION LEVEL                                                                                                       |
| 18      | (12) | CHARACTER  | 2   | WWBRESRV   | RESERVED                                                                                                                                  |
| 20      | (14) | SIGNED     | 4   | WWBECB     | ECB PART OF WTOECB                                                                                                                        |
| 24      | (18) | CHARACTER  | 4   | WWBACRN    | ACRONYM 'WWB '                                                                                                                            |
| 28      | (1C) | CHARACTER  | 4   |            | RESERVED                                                                                                                                  |
| 28      | (1C) | X'20'      | 0   | WWBLENG    | *** END OF WWB                                                                                                                            |
| 28      | (1C) | X'20'      | 0   | WWBSIZE    | "WWBLENG-WWB"                                                                                                                             |
| 28      | (1C) | X'14'      | 0   | WWBECBOF   | "WWBECB-WWB" ECB OFFSET                                                                                                                   |

## WWB Cross Reference

### WWB Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| WWB      | 0             |              |
| WWBACRN  | 18            |              |
| WWBASCB  | 8             |              |
| WWBBCKPT | 4             |              |
| WWBECB   | 14            |              |
| WWBECBOF | 1C            | 14           |
| WWBFLAGS | 10            |              |
| WWBFWDPT | 0             |              |
| WWBLENG  | 1C            | 20           |
| WWBPOSTD | 10            | 80           |
| WWBRESRV | 12            |              |
| WWBSIZE  | 1C            | 20           |
| WWBS220  | 11            | 1            |
| WWBTCBAD | C             |              |
| WWBUSE0  | 10            | 40           |
| WWBVERN  | 11            | 1            |
| WWBVRSN  | 11            |              |

## XCPS Heading Information

**Common Name:** Channel Program Scan Program List/Work Area  
**Macro ID:** IECDXCPS  
**DSECT Name:** XCPS  
**Owning Component:** Execute Channel Program Processor (SC1C6)  
**Subpool and Key:** 226 and key 0 (Residence - below 16M line)  
**Size:** 160 bytes  
**Created by:** IECVEXCP, EXCP processor, when the callers I/O request is r. to a device that requires CPS services.  
**Pointed to by:** Register 1 on entry to the channel program scan exit routine.  
**Serialization:** Local lock  
**Function:** Describes the input parameter list and work area passed by the EXCP processor to the Channel Program Scan (CPS) exit routine.

### XCPS Map

| Offsets |      |            |     |            |                                                                                                       |
|---------|------|------------|-----|------------|-------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                           |
| 0       | (0)  | STRUCTURE  | 0   | CPS        |                                                                                                       |
| 0       | (0)  | CHARACTER  | 4   | CPSCPS     | CPS acronym                                                                                           |
| 4       | (4)  | BITSTRING  | 1   | CPSENTRY   | Entry reason byte                                                                                     |
|         |      | .... ..1   |     | CPSENSIO   | "X'01" . STARTIO entry                                                                                |
|         |      | .... ..1.  |     | CPSENIOE   | "X'02" . I/O error entry                                                                              |
|         |      | .... ..11  |     | CPSENEOE   | "X'03" . End of Extent entry                                                                          |
|         |      | .... ..1.. |     | CPSENNML   | "X'04" . Normal-end entry                                                                             |
| 5       | (5)  | CHARACTER  | 3   | CPSRESV1   | Reserved                                                                                              |
| 8       | (8)  | ADDRESS    | 4   | CPSRQE     | EXCP RQE address                                                                                      |
| 12      | (C)  | ADDRESS    | 4   | CPSIOSB    | EXCP IOSB address                                                                                     |
| 16      | (10) | CHARACTER  | 16  | CPSRESV2   | Reserved                                                                                              |
| 32      | (20) | CHARACTER  | 128 | CPSWA      | Work area for use by the channel program scan exit, includes prefix CCWs, set to 0's on initial entry |
| 32      | (20) | X'A0'      | 0   | CPSLEN     | *** CPS block length                                                                                  |

### XCPS Cross Reference

| Name     | Hex Offset | Hex Value |
|----------|------------|-----------|
| CPS      | 0          |           |
| CPSCPS   | 0          |           |
| CPSENEOE | 4          | 3         |
| CPSENIOE | 4          | 2         |
| CPSENNML | 4          | 4         |
| CPSENSIO | 4          | 1         |
| CPSENTRY | 4          |           |
| CPSIOSB  | C          |           |
| CPSLEN   | 20         | A0        |
| CPSRESV1 | 5          |           |
| CPSRESV2 | 10         |           |
| CPSRQE   | 8          |           |
| CPSWA    | 20         |           |



## XDBA Heading Information

**Common Name:** EXCP Debugging Area  
**Macro ID:** IECDXDBA  
**DSECT Name:** XDBA  
**Owning Component:** Execute Channel Program Processor (SC1C6)  
**Subpool and Key:** Subpool 230 associated with the job step TCB and key 0.  
 (Residence - below 16M line)  
**Size:** 4096 bytes  
**Created by:** IECVEXFR, EXCP processor functional recovery routine.  
**Pointed to by:** TCBEXCPD field of the TCB data area  
 XDBACHAN field of the XDBA data area  
**Serialization:** None  
**Function:** The XDBA contains diagnostic data provided by EXCP's functional recovery routine(IECVEXFR), to aid in debugging EXCP I/O request problems.

### XDBA Map

| Offsets |      |            |     |               |                                                     |
|---------|------|------------|-----|---------------|-----------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)    | Description                                         |
| 0       | (0)  | STRUCTURE  | 0   | XDBA          |                                                     |
| 0       | (0)  | BITSTRING  | 256 | XDBANLGE (0)  | XDBA non-large block area                           |
| 0       | (0)  | CHARACTER  | 16  | XDBATTL1      | XDBA block identifier                               |
| 16      | (10) | SIGNED     | 4   | XDBACHAN      | XDBA chain pointer or zero                          |
| 20      | (14) | SIGNED     | 2   | XDBACOMP      | EXCP abend completion code                          |
| 22      | (16) | SIGNED     | 2   | XDBACC        | SDWA original abend code                            |
| 24      | (18) | BITSTRING  | 8   | XDBAPSW       | SDWA PSW at time of error                           |
| 32      | (20) | SIGNED     | 4   | XDBATRAN      | Translation exception address                       |
| 36      | (24) | BITSTRING  | 12  | XDBARV1       | Reserved                                            |
| 48      | (30) | SIGNED     | 4   | XDBARGSV (16) | SDWA registers at time of error                     |
| 112     | (70) | CHARACTER  | 8   | XDBATTL2      | FRR parm area identifier                            |
| 120     | (78) | BITSTRING  | 24  | XDBAFRRP      | EXCP FRR parameter area                             |
| 144     | (90) | CHARACTER  | 4   | XDBATTL3      | RQE block identifier                                |
| 148     | (94) | BITSTRING  | 64  | XDBARQE       | RQE block size + the 8 byte storage manager header. |
| 212     | (D4) | BITSTRING  | 24  | XDBARV3       | Reserved                                            |
| 236     | (EC) | BITSTRING  | 4   | XDBALBCT      | Number of large blocks in XDBA                      |

Comment

The large size blocks are moved into the remaining XDBA area starting at X'100' offset, in following sequence (if present):  
 ..... SRB/IOSB, EWA, TCCW, IDAL, FIX, BEB AND CPS.  
 Only valid large blocks are moved.

End of Comment

|     |       |           |    |             |                             |
|-----|-------|-----------|----|-------------|-----------------------------|
| 240 | (F0)  | CHARACTER | 16 | XDBATTL4    | Large block area identifier |
| 256 | (100) | BITSTRING | 0  | XDBAENT (0) | Start of large blocks       |
| 256 | (100) | BITSTRING | 1  | XDBALGEB    | Large block entry           |

Comment

XDBA constants

End of Comment

|     |       |         |   |          |                                                                             |
|-----|-------|---------|---|----------|-----------------------------------------------------------------------------|
| 256 | (100) | X'100'  | 0 | XDBAEL   | "256" Size of large block + storage manager header.                         |
| 256 | (100) | X'40'   | 0 | XDBAER   | "RQEBL+8" Size of RQE block + storage manager header.                       |
| 256 | (100) | X'1000' | 0 | XDBASIZE | "4096" Size of XDBA block.                                                  |
| 256 | (100) | X'F'    | 0 | XDBABLKS | "(XDBASIZE-(XDBAENT-XDBA))/XDBAEL" Number of slots for storing large blocks |

## XDBA Cross Reference

### XDBA Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| XDBA     | 0             |              |
| XDBABLKS | 100           | F            |
| XDBACC   | 16            |              |
| XDBACHAN | 10            |              |
| XDBACOMP | 14            |              |
| XDBAEL   | 100           | 100          |
| XDBAENT  | 100           |              |
| XDBAER   | 100           | 40           |
| XDBAFRRP | 78            |              |
| XDBALBCT | EC            |              |
| XDBALGEB | 100           |              |
| XDBANLGE | 0             |              |
| XDBAPSW  | 18            |              |
| XDBARGSV | 30            |              |
| XDBARQE  | 94            |              |
| XDBARV1  | 24            |              |
| XDBARV3  | D4            |              |
| XDBASIZE | 100           | 1000         |
| XDBATRAN | 20            |              |
| XDBATTL1 | 0             |              |
| XDBATTL2 | 70            |              |
| XDBATTL3 | 90            |              |
| XDBATTL4 | F0            |              |



## XMD Heading Information

**Common Name:** CROSS MEMORY DIRECTORY  
**Macro ID:** IHAXMD  
**DSECT Name:** XMD  
**Owning Component:** PC/AUTH (SCXMS)  
**Eye-Catcher ID:** XMD  
 Offset: 0  
 Length: 4  
**Storage Attributes:** Subpool: 229 - LOCAL IN THE PC/AUTH ADDRESS SPACE  
 Key: 0  
 Residency: VIRTUAL: ABOVE 16M LINE.  
**Size:** 56 bytes  
**Created by:** IEAVXMAS  
**Pointed to by:** SVTXMD  
**Serialization:** THE CML LOCK OF THE PC/AUTH ADDRESS SPACE IS REQUIRED FOR READ AND WRITE ACCESS.  
**Function:** CONTAINS VARIOUS POINTERS AND INFORMATION USED BY THE SERVICES EXECUTING IN THE CROSS MEMORY SERVICES ADDRESS SPACE.

### XMD Map

| Offsets |      |            |     |            |                                                                                            |
|---------|------|------------|-----|------------|--------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                |
| 0       | (0)  | STRUCTURE  | 56  | XMD        | CROSS MEMORY DIRECTORY                                                                     |
| 0       | (0)  | CHARACTER  | 4   | XMDXMD     | XMD ACRONYM                                                                                |
| 4       | (4)  | ADDRESS    | 4   | XMDLXAT    | POINTER TO THE LINKAGE INDEX ALLOCATION TABLE                                              |
| 8       | (8)  | CHARACTER  | 8   | XMDTIBH    | HEADER OF ENTRY TABLE INFORMATION BLOCK QUEUE                                              |
| 8       | (8)  | ADDRESS    | 4   | XMDTIBF    | POINTER TO FIRST ETIB ON QUEUE                                                             |
| 12      | (C)  | ADDRESS    | 4   | XMDTIBL    | POINTER TO LAST ETIB ON QUEUE                                                              |
| 16      | (10) | ADDRESS    | 4   | XMDAXAT    | ADDRESS OF AUTHORIZATION INDEX ALLOCATION TABLE                                            |
| 20      | (14) | BITSTRING  | 1   | XMDFLAGS   | FLAG BYTE                                                                                  |
|         |      | 1... ....  |     | XMDRSV1    | RESERVED FLAG                                                                              |
|         |      | .1.. ....  |     | XMDRSV2    | RESERVED FLAG                                                                              |
| 21      | (15) | BITSTRING  | 3   | XMDRSV9    | RESERVED FIELD                                                                             |
| 24      | (18) | ADDRESS    | 4   | XMDXMSE    | ADDRESS OF THE QUEUE OF XMSE'S IN PC/AUTH'S ADDRESS SPACE                                  |
| 28      | (1C) | UNSIGNED   | 2   | XMDATLNB   | LENGTH OF THE SYSTEM AUTHORIZATION TABLE (IN BYTES)                                        |
| 30      | (1E) | UNSIGNED   | 2   | XMDSATLN   | LENGTH OF THE SYSTEM AUTHORIZATION TABLE. (0030) USED TO INITIALIZE AN ASTE                |
| 32      | (20) | UNSIGNED   | 4   | XMDSATOR   | THE REAL ADDRESS OF THE SYSTEM AUTHORIZATION TABLE IN FORMAT TO INITIALIZE THE ASTE.       |
| 36      | (24) | ADDRESS    | 4   | XMDSATOV   | THE VIRTUAL ADDRESS OF THE SYSTEM AUTHORIZATION TABLE                                      |
| 40      | (28) | UNSIGNED   | 4   | XMDSLTD    | REAL ADDRESS AND LENGTH OF THE SYSTEM LINKAGE TABLE (WITH THE VALID BIT ON) IN ASTE FORMAT |
| 44      | (2C) | ADDRESS    | 4   | XMDSLT     | ADDRESS OF THE SYSTEM LINKAGE TABLE WHICH CONTAINS ONLY SYSTEM WIDE ENTRIES                |
| 48      | (30) | ADDRESS    | 4   | XMDXMSEL   | ADDRESS OF THE LAST XMSE ON THE QUEUE ANCHORED BY XMDXMSE                                  |
| 52      | (34) | ADDRESS    | 4   | XMDXMSE    | PENDING ASID REUSE QUEUE                                                                   |

## XMD Constants • XMD Cross Reference

### XMD Constants

| Len | Type    | Value | Name     | Description                                                     |
|-----|---------|-------|----------|-----------------------------------------------------------------|
| 4   | DECIMAL | 255   | XMDFSP   | ID OF FIXED SUBPOOL USED FOR THE ENTRY, LINKAGE AND AUTH TABLES |
| 4   | DECIMAL | 229   | XMDPSP   | ID OF SUBPOOL USED FOR THE PAGEABLE CONTROL BLOCKS              |
| 4   | DECIMAL | 229   | XMDDASP  | ID OF SUBPOOL USED FOR THE DYNAMIC DATA AREAS                   |
| 4   | DECIMAL | 215   | XMDSP215 | ID OF DREF SUBPOOL FOR CROSS MEMORY CONTROL BLOCKS              |
| 4   | DECIMAL | 245   | XMDLPSP  | ID OF SUBPOOL FOR LATENT PARAMETER AREAS                        |

### XMD Cross Reference

| Name      | Hex Offset | Hex Value |
|-----------|------------|-----------|
| XMD       | 0          |           |
| XMDATLNB  | 1C         |           |
| XMDAXAT   | 10         |           |
| XMDDETIBF | 8          |           |
| XMDDETIBH | 8          |           |
| XMDDETIBL | C          |           |
| XMDFLAGS  | 14         |           |
| XMDLXAT   | 4          |           |
| XMDRSV1   | 14         | 80        |
| XMDRSV2   | 14         | 40        |
| XMDRSV9   | 15         |           |
| XMDSATLN  | 1E         |           |
| XMDSATOR  | 20         |           |
| XMDSATOV  | 24         |           |
| XMDSLTD   | 28         |           |
| XMDXMD    | 0          |           |
| XMDXMSE   | 18         |           |
| XMDXMSEL  | 30         |           |
| XMDXMSESR | 34         |           |

## XQSRD Heading Information

**Common Name:** ASM Quick Start Record Extension  
**Macro ID:** ILRXQSRD  
**DSECT Name:** XQSR, XQSRENTER  
**Owning Component:** Auxiliary Storage Manager (SC1CW)  
**Eye-Catcher ID:** XQSR  
 Offset: 0  
 Length: 4

**Storage Attributes:** Virtual Storage: YES  
 Subpool: 245  
 Key: 0  
 Data Space: NO  
 Residency: Above 16 Megabytes virtual

**Size:** 4096 bytes  
**Created by:** ILRASRIM  
**Pointed to by:** NVTQSBUF plus length of QSR plus length EQSR. The XQSR is contiguous in storage following QSR and EQSR.

**Serialization:** Serialized by initialization processing  
**Function:** The XQSR contains the primary LSIDs for LPA pages.

### XQSRD Map

| Offsets |      |            |      |            |                                                                            |
|---------|------|------------|------|------------|----------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len  | Name (Dim) | Description                                                                |
| 0       | (0)  | STRUCTURE  | 4096 | XQSR       | Quick Start Record Extension                                               |
| 0       | (0)  | CHARACTER  | 96   | XQSRHDR    | XQSR header                                                                |
| 0       | (0)  | CHARACTER  | 4    | XQSRIDNT   | Control block identifier, set to C'XQSR'                                   |
| 4       | (4)  | ADDRESS    | 4    | XQSRLPAS   | Low virtual address -- start address of section of LPA mapped by this XQSR |
| 8       | (8)  | ADDRESS    | 4    | XQSRLPAE   | High virtual address -- end address of section of LPA mapped by this XQSR  |
| 12      | (C)  | SIGNED     | 4    | XQSRNUM    | Number of LPA entries in this XQSR                                         |
| 16      | (10) | BITSTRING  | 1    | XQSRFLAG   | Flag byte                                                                  |
|         |      | 1... ....  |      | XQSRPLPA   | PLPA XQSR                                                                  |
|         |      | .1.. ....  |      | XQSREPLP   | EPLPA XQSR                                                                 |
|         |      | ..11 1111  |      | *          | Reserved                                                                   |
| 17      | (11) | CHARACTER  | 3    | XQSRFRSV   | Reserved                                                                   |
| 20      | (14) | CHARACTER  | 76   | XQSRSRV    | Reserved                                                                   |
| 96      | (60) | CHARACTER  | 4000 | XQSRMAP    | Map of LPA page LSIDs made up of 8-byte entries                            |

| Offsets |     |            |     |            |                                                                                                                                                                                                             |
|---------|-----|------------|-----|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                 |
| 0       | (0) | STRUCTURE  | 8   | XQSRENTR   | Each XQSR entry contains the LSID for an LPA page. The entries are built in ascending order of virtual address. Each entry contains one LSID. The first zero entry indicates the end of the entries in use. |
| 0       | (0) | SIGNED     | 4   | XQSRLSID   | Logical slot ID for the LPA page                                                                                                                                                                            |
| 0       | (0) | CHARACTER  | 1   | XQSRPTNN   | PART number portion of LSID identifying page data set, must always be set to zero                                                                                                                           |
| 1       | (1) | CHARACTER  | 3   | XQSRSLOT   | Slot number portion of LSID identifying slot within the page data set                                                                                                                                       |
| 4       | (4) | SIGNED     | 4   | XQSRRSV1   | Reserved                                                                                                                                                                                                    |

## XQSRD Cross Reference

### XQSRD Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|
| XQSR     | 0             |              |
| XQSRENTN | 0             |              |
| XQSREPLP | 10            | 40           |
| XQSRFLAG | 10            |              |
| XQSRFRSV | 11            |              |
| XQSRHDR  | 0             |              |
| XQSRIDNT | 0             |              |
| XQSRLPAE | 8             |              |
| XQSRLPAS | 4             |              |
| XQSRLSID | 0             |              |
| XQSRMAP  | 60            |              |
| XQSRNUM  | C             |              |
| XQSRPLPA | 10            | 80           |
| XQSRPTNN | 0             |              |
| XQSRRSV1 | 4             |              |
| XQSRSL0T | 1             |              |
| XQSRSRV  | 14            |              |

## XSA Heading Information

**Common Name:** EXTENDED SAVE AREA  
**Macro ID:** IEEXSA  
**DSECT Name:** XSA  
**Owning Component:** MASTER SCHEDULER (SC1B8)  
**Eye-Catcher ID:** XSA  
 Offset: N/A or 144  
 Length: 4  
**Storage Attributes:** Subpool: VARIABLE. PART OF SVRB OR SUBPOOL 229  
 Key: 0  
 Residency: ANY  
**Size:** 48 OR 400 BYTES  
**Created by:** Supervisor, in creating a Supervisor Request block (48 bytes), SVC 34, in creating a dummy XSA for use within SVC 34 only (400 bytes), or various Started Task Control routines, which use IEE0503D as a message module (48 bytes).  
**Pointed to by:** FOR SUPERVISOR AND STC ROUTINES, 96 BYTES PAST THE START OF THE SVRB. DURING SVC 34 PROCESSING, REGISTER 2 POINTS TO THE GETMAINED XSA.  
**Serialization:** NONE  
**Function:** SERVES AS A PARAMETER AND COMMUNICATION AREA WITHIN SVC 34. IT IS THE PARAMETER LIST PASSED TO IEE0503D.

### XSA Map

| Offsets                                                                                      |      |            |     |            |                               |
|----------------------------------------------------------------------------------------------|------|------------|-----|------------|-------------------------------|
| Dec                                                                                          | Hex  | Type/Value | Len | Name (Dim) | Description                   |
| 0                                                                                            | (0)  | STRUCTURE  | 400 | XSAMAP     |                               |
| 0                                                                                            | (0)  | CHARACTER  | 48  | XASVRB     | Y02669                        |
|                                                                                              |      |            |     |            | Comment                       |
| 'LENGTH (XASVRB)' YIELDS LENGTH OF XSA Y02669 IN THE SVRB Y02669                             |      |            |     |            |                               |
|                                                                                              |      |            |     |            | End of Comment                |
| 0                                                                                            | (0)  | CHARACTER  | 8   | XSA        | BEGINNING OF SAVE AREA Y02669 |
|                                                                                              |      |            |     |            | Comment                       |
| THE USAGE OF THE FIELDS MARKED AS "WORK WORD" ARE DEFINED WITHIN INDIVIDUAL COMMAND MODULES. |      |            |     |            |                               |
|                                                                                              |      |            |     |            | End of Comment                |
| 0                                                                                            | (0)  | ADDRESS    | 4   | XAP        | WORK WORD                     |
| 4                                                                                            | (4)  | ADDRESS    | 4   | XAD        | WORK WORD                     |
| 8                                                                                            | (8)  | CHARACTER  | 8   | XAX        | WORK DOUBLE WORD              |
| 16                                                                                           | (10) | SIGNED     | 4   | *          |                               |
| 16                                                                                           | (10) | CHARACTER  | 1   | XAE        | ERROR CODE Y02669             |
| 17                                                                                           | (11) | ADDRESS    | 3   | XAR        | PTR TO PARM LIST (REG1)       |
| 20                                                                                           | (14) | SIGNED     | 4   | *          |                               |
| 20                                                                                           | (14) | CHARACTER  | 1   | XAN        | VERB INDEX Y02669             |

# XSA Map

| Offsets |      |            |     |            |                                                                                                                                                                                                                                                                   |
|---------|------|------------|-----|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                                                                                                                                                                                       |
| 21      | (15) | ADDRESS    | 3   | XAL        | PTR TO LIST POSITION                                                                                                                                                                                                                                              |
| 24      | (18) | CHARACTER  | 8   | XAV        | VERB Y02669                                                                                                                                                                                                                                                       |
| 24      | (18) | SIGNED     | 4   | XAV1       | FIRST WORD OF XAV                                                                                                                                                                                                                                                 |
| 28      | (1C) | ADDRESS    | 4   | XAV2       | SECOND WORD OF XAV                                                                                                                                                                                                                                                |
| 32      | (20) | CHARACTER  | 8   | XAS        | TEMPORARY SAVE AREA Y02669                                                                                                                                                                                                                                        |
| 40      | (28) | CHARACTER  | 1   | XAU        | UCM ENTRY INDICATOR Y02669                                                                                                                                                                                                                                        |
| 41      | (29) | CHARACTER  | 1   | *          | RESERVED Y02669                                                                                                                                                                                                                                                   |
| 42      | (2A) | SIGNED     | 2   | XAA        | ASID ENTRY INDICATOR Y02669                                                                                                                                                                                                                                       |
| 44      | (2C) | SIGNED     | 4   | XAK        | KEPT FOR COMMUNICATIONS WITHIN A SINGLE<br>COMMAND AFTER IE ECB808 FOR ATTACHED COMMANDS<br>OR AFTER COMMAND EXIT AND SUBSYSTEM PROCESSING.<br>BEFORE THEN IT CONTAINS THE ORIGINATING CONSOLE<br>ID. (IEE0703D - STOP/MODIFY ALSO USES ORIGINATING<br>CONSOLE ID |

Comment

Y02669  
THE FOLLOWING FIELDS EXIST ONLY IN THE SUBPOOL Y02669  
229 XSA IN VS2 Y02669

Y02669

End of Comment

Comment

SAVE AREA FOR SETLOCK INVOCATION Y02651  
THIS CONSISTS OF FOUR FULL WORDS USED TO SAVE Y02651  
REGISTERS 11, 12, 13, AND 14. Y02651  
THIS SAVE AREA IS ALSO DECLARED BELOW AS XASAVLOC, A  
4-ELEMENT ARRAY OF FULLWORDS.

End of Comment

|    |      |           |    |          |                   |
|----|------|-----------|----|----------|-------------------|
| 48 | (30) | CHARACTER | 16 | XASAVLOX | SETLOCK SAVE AREA |
| 48 | (30) | SIGNED    | 4  | XASAVLC1 |                   |
| 52 | (34) | SIGNED    | 4  | XASAVLC2 |                   |
| 56 | (38) | SIGNED    | 4  | XASAVLC3 |                   |
| 60 | (3C) | SIGNED    | 4  | XASAVLC4 |                   |

Comment

STANDARD SAVE AREA Y02669  
THE ADDRESS OF THIS 18 FULL WORD AREA IS PASSED TO Y02669  
THOSE ROUTINES INVOKED BY SVC 34 WHICH REQUIRE A SAVE Y02669  
AREA. Y02669  
THIS SAVE AREA IS ALSO DECLARED BELOW AS XASAVSTD,  
AN 18-ELEMENT ARRAY OF FULLWORDS.

End of Comment

|     |      |           |    |          |                    |
|-----|------|-----------|----|----------|--------------------|
| 64  | (40) | CHARACTER | 72 | XASAVSTR | STANDARD SAVE AREA |
| 64  | (40) | SIGNED    | 4  | XASAVSDA |                    |
| 68  | (44) | SIGNED    | 4  | XASAVSDB |                    |
| 72  | (48) | SIGNED    | 4  | XASAVSDC |                    |
| 76  | (4C) | SIGNED    | 4  | XASAVSDD |                    |
| 80  | (50) | SIGNED    | 4  | XASAVSDE |                    |
| 84  | (54) | SIGNED    | 4  | XASAVSDF |                    |
| 88  | (58) | SIGNED    | 4  | XASAVSDG |                    |
| 92  | (5C) | SIGNED    | 4  | XASAVSDH |                    |
| 96  | (60) | SIGNED    | 4  | XASAVSDI |                    |
| 100 | (64) | SIGNED    | 4  | XASAVSDJ |                    |
| 104 | (68) | SIGNED    | 4  | XASAVSDK |                    |
| 108 | (6C) | SIGNED    | 4  | XASAVSDL |                    |
| 112 | (70) | SIGNED    | 4  | XASAVSDM |                    |
| 116 | (74) | SIGNED    | 4  | XASAVSDN |                    |

| Offsets                                                                                                                                                                                                              |      |            |     |            |                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-----|------------|---------------------------------------------------------------------------------------------|
| Dec                                                                                                                                                                                                                  | Hex  | Type/Value | Len | Name (Dim) | Description                                                                                 |
| 120                                                                                                                                                                                                                  | (78) | SIGNED     | 4   | XASAVSDO   |                                                                                             |
| 124                                                                                                                                                                                                                  | (7C) | SIGNED     | 4   | XASAVSDP   |                                                                                             |
| 128                                                                                                                                                                                                                  | (80) | SIGNED     | 4   | XASAVSDQ   |                                                                                             |
| 132                                                                                                                                                                                                                  | (84) | SIGNED     | 4   | XASAVSDR   |                                                                                             |
| 136                                                                                                                                                                                                                  | (88) | CHARACTER  | 16  | *          |                                                                                             |
| Comment                                                                                                                                                                                                              |      |            |     |            |                                                                                             |
| <p>SVC 34 COMMAND FLAGS<br/> THE FIRST HALF WORD CONTAINS A COPY OF THE 3RD AND<br/> 4TH BYTES OF THE SVC 34 PARAMETER LIST PROVIDED THE<br/> HIGH ORDER BIT IN THE FIRST BYTE OF THE PARAMETER<br/> LIST IS ON.</p> |      |            |     |            |                                                                                             |
| End of Comment                                                                                                                                                                                                       |      |            |     |            |                                                                                             |
| 136                                                                                                                                                                                                                  | (88) | UNSIGNED   | 4   | XACMFLGS   | COMMAND FLAGS                                                                               |
| Comment                                                                                                                                                                                                              |      |            |     |            |                                                                                             |
| <p>THE XACMFLGA FIELD MUST BE EXACTLY MAPPED BY THE<br/> MGCELFL FIELD IN THE MGCRE PARAMETER LIST (IEZMGCRE)</p>                                                                                                    |      |            |     |            |                                                                                             |
| End of Comment                                                                                                                                                                                                       |      |            |     |            |                                                                                             |
| 136                                                                                                                                                                                                                  | (88) | UNSIGNED   | 2   | XACMFLGA   | PART 1 OF COMMAND FLAGS                                                                     |
| 136                                                                                                                                                                                                                  | (88) | BITSTRING  | 1   | XACMFLG1   | 1ST FLAG BYTE                                                                               |
|                                                                                                                                                                                                                      |      | 1... ..    |     | XACMF11    | EXTENDED FORM (MGRCE) PARAMETER LIST IS BEING<br>USED                                       |
|                                                                                                                                                                                                                      |      | .1.. ..    |     | XACMF12    | COMMAND ISSUED BY SUBSYSTEM                                                                 |
|                                                                                                                                                                                                                      |      | ..1. ..    |     | XACMF13    | COMMAND ISSUED BY MODULE IEAVC700                                                           |
|                                                                                                                                                                                                                      |      | ...1 ..    |     | XACMF14    | COMMAND IS NOT TO BE HARDCOPIED                                                             |
|                                                                                                                                                                                                                      |      | .... 1..   |     | XACMF15    | A TOKEN EXISTS                                                                              |
|                                                                                                                                                                                                                      |      | .... .1.   |     | XACMF16    | CONSID KEYWORD WAS SPECIFIED IN MGCRE                                                       |
|                                                                                                                                                                                                                      |      | .... ..1.  |     | XACMF17    | CONSNAME KEYWORD WAS SPECIFIED IN MGCRE                                                     |
|                                                                                                                                                                                                                      |      | .... ...1  |     | XACMF18    | COMMAND AUTHORITY WAS SPECIFIED IN MGCRE                                                    |
| 137                                                                                                                                                                                                                  | (89) | BITSTRING  | 1   | XACMFLG2   | 2ND FLAG BYTE                                                                               |
|                                                                                                                                                                                                                      |      | 1... ..    |     | XACMF21    | COMMAND IS AUTHORIZED TO BYPASS SSI,USER EXITS,<br>CMDAUTH AND SYMBOLIC SUBSTITUTION        |
|                                                                                                                                                                                                                      |      | .1.. ..    |     | XACMF22    | NO PREFIX PROCESSING                                                                        |
|                                                                                                                                                                                                                      |      | ..1. ..    |     | XACMF23    | CART SPECIFIED IN MGCRE                                                                     |
|                                                                                                                                                                                                                      |      | ...1 ..    |     | XACMF24    | CONSOLXX QUEUED COMMAND                                                                     |
|                                                                                                                                                                                                                      |      | .... 1..   |     | XACMF25    | A UTOKEN WAS SPECIFIED ON MGCR                                                              |
|                                                                                                                                                                                                                      |      | .... .1.   |     | XACMF26    | COMMAND WAS ROUTED                                                                          |
|                                                                                                                                                                                                                      |      | .... ..1.  |     | XACMF27    | BYPASS DEQ INDICATOR                                                                        |
|                                                                                                                                                                                                                      |      | .... ...1  |     | XACMF28    | DEFERRED COMMAND EXECUTION                                                                  |
| 138                                                                                                                                                                                                                  | (8A) | UNSIGNED   | 2   | XACMFLGB   | PART 2 OF COMMAND FLAGS                                                                     |
| 138                                                                                                                                                                                                                  | (8A) | BITSTRING  | 1   | XACMFLG3   | 3RD FLAG BYTE                                                                               |
|                                                                                                                                                                                                                      |      | 1... ..    |     | XACMF31    | UNCOND SPECIFIED ON VARY                                                                    |
|                                                                                                                                                                                                                      |      | .1.. ..    |     | XACMF32    | FORCE OPTION SPECIFIED WITH VARY                                                            |
|                                                                                                                                                                                                                      |      | ..1. ....  |     | XACMF33    | LOCKS HELD INDICATOR - '1' IF LOCKS ARE HELD, '0' IF<br>LOCKS ARE NOT HELD                  |
|                                                                                                                                                                                                                      |      | ...1 ....  |     | XACMF34    | MESSAGE INDICATOR USED BY IEE4603D IEE4903D AND<br>IEE7703D                                 |
|                                                                                                                                                                                                                      |      | .... 1..   |     | XACRESET   | RESET OPERAND SPECIFIED ON VARY OFFLINE                                                     |
|                                                                                                                                                                                                                      |      | .... .1.   |     | XACUIRMG   | ISSUE CUIR MESSAGE                                                                          |
|                                                                                                                                                                                                                      |      | .... ..1.  |     | XACOFFLN   | OFFLINE KEYWORD SPECIFIED                                                                   |
|                                                                                                                                                                                                                      |      | .... ...1  |     | XACSYSMC   | X SYSTEM MCS RESORUCE HELD                                                                  |
| 139                                                                                                                                                                                                                  | (8B) | BITSTRING  | 1   | XACMFLG4   | 4TH FLAG BYTE                                                                               |
|                                                                                                                                                                                                                      |      | 1... ..    |     | XACMF41    | COMMAND PREFIX SPECIFIED                                                                    |
|                                                                                                                                                                                                                      |      | .1.. ..    |     | XACMF42    | Reserved                                                                                    |
|                                                                                                                                                                                                                      |      | ..1. ....  |     | XACMF43    | IEE4603D usage: indicates that device is changing from console<br>state to ON/OFFLINE state |
|                                                                                                                                                                                                                      |      | ...1 ....  |     | XACMF44    | Command routed by ROUTE *ALL command                                                        |
|                                                                                                                                                                                                                      |      | .... 1..   |     | XABEWTO    | IEE1503D should issue a branch entry WTO                                                    |
|                                                                                                                                                                                                                      |      | .... ..1.  |     | XASUBSTU   | Command symbolic substitution has occurred                                                  |

# XSA Map

| Offsets                                                                |       |            |     |            |                                                                                  |
|------------------------------------------------------------------------|-------|------------|-----|------------|----------------------------------------------------------------------------------|
| Dec                                                                    | Hex   | Type/Value | Len | Name (Dim) | Description                                                                      |
|                                                                        |       | .... ..1.  |     | XANOBY     | Do not bypass RACROUTE for requeued commands                                     |
|                                                                        |       | .... ...1  |     | XAHCONLY   | Issue msgs to Hardcopy Only                                                      |
| 140                                                                    | (8C)  | CHARACTER  | 4   | XACTOKEN   | 31 BIT RIGHT JUSTIFIED TOKEN                                                     |
|                                                                        |       | 1... ....  |     | XACTOKHR   | A TOKEN EXISTS                                                                   |
| 144                                                                    | (90)  | CHARACTER  | 4   | XACBID     | CONTROL BLOCK ID 'XSA '                                                          |
| 148                                                                    | (94)  | ADDRESS    | 4   | XAMSRAS    | POINTER TO MASTER SCHEDULER RAS DATA COMMUNICATIONS AREA                         |
| Comment                                                                |       |            |     |            |                                                                                  |
| WORK POINTER SAVE AREA<br>TO BE USED WITHIN A SINGLE COMMAND PROCESSOR |       |            |     |            |                                                                                  |
| End of Comment                                                         |       |            |     |            |                                                                                  |
| 152                                                                    | (98)  | CHARACTER  | 32  | XAWORK     | WORK POINTER AREA                                                                |
| 152                                                                    | (98)  | SIGNED     | 4   | XAWORKA    | WORK POINTER 1                                                                   |
| 156                                                                    | (9C)  | SIGNED     | 4   | XAWORKB    | WORK POINTER 2                                                                   |
| 160                                                                    | (A0)  | SIGNED     | 4   | XAWORKC    | WORK POINTER 3                                                                   |
| 164                                                                    | (A4)  | SIGNED     | 4   | XAWORKD    | WORK POINTER 4                                                                   |
| 168                                                                    | (A8)  | SIGNED     | 4   | XAWORKE    | WORK POINTER 5                                                                   |
| 172                                                                    | (AC)  | SIGNED     | 4   | XAWORKF    | WORK POINTER 6                                                                   |
| 176                                                                    | (B0)  | SIGNED     | 4   | XAWORKG    | WORK POINTER 7                                                                   |
| 180                                                                    | (B4)  | SIGNED     | 4   | XAWORKH    | WORK POINTER 8                                                                   |
| Comment                                                                |       |            |     |            |                                                                                  |
| VERSION LEVEL OF THIS MACRO                                            |       |            |     |            |                                                                                  |
| End of Comment                                                         |       |            |     |            |                                                                                  |
| 184                                                                    | (B8)  | CHARACTER  | 216 | *          |                                                                                  |
| 184                                                                    | (B8)  | UNSIGNED   | 1   | XAVERSN    | VERSION LEVEL OF XSA. UPDATED FOR SIZE OR INCOMPATABLE CHANGE                    |
| 185                                                                    | (B9)  | CHARACTER  | 3   | XAWORKI    | 3 BYTE WORK AREA                                                                 |
| 188                                                                    | (BC)  | SIGNED     | 4   | XAWORKJ    | WORK AREA                                                                        |
| 192                                                                    | (C0)  | SIGNED     | 4   | XARN003D   | RETURN ADDRESS FOR SVC 34 (IEE0003D)                                             |
| 196                                                                    | (C4)  | SIGNED     | 4   | XARN303D   | RETURN ADDRESS FOR SVC 34 (IEE0303D)                                             |
| 200                                                                    | (C8)  | SIGNED     | 4   | XABS303D   | ADDRESSIBILITY FOR IEE0303D                                                      |
| 204                                                                    | (CC)  | SIGNED     | 4   | XABS403D   | ADDRESSIBILITY FOR IEE0403D                                                      |
| Comment                                                                |       |            |     |            |                                                                                  |
| THE XAXSPLA IS ONLY USED IN IEE3603D LOAD MODULE                       |       |            |     |            |                                                                                  |
| End of Comment                                                         |       |            |     |            |                                                                                  |
| 204                                                                    | (CC)  | ADDRESS    | 4   | XAXSPLA    | ADDRESS OF XSPL                                                                  |
| Comment                                                                |       |            |     |            |                                                                                  |
| ROUTING CODE KEYWORD VALUES                                            |       |            |     |            |                                                                                  |
| End of Comment                                                         |       |            |     |            |                                                                                  |
| 208                                                                    | (D0)  | CHARACTER  | 16  | XARTCODE   | ROUTING CODES SPECIFIED ON THE ROUT KEYWORD OF THE VARY CONSOLE/HARDCPY COMMAND  |
| 224                                                                    | (E0)  | CHARACTER  | 16  | XAAROUT    | ROUTING CODES SPECIFIED ON THE AROUT KEYWORD OF THE VARY CONSOLE/HARDCPY COMMAND |
| 240                                                                    | (F0)  | CHARACTER  | 16  | XADROUT    | ROUTING CODES SPECIFIED ON THE DROUT KEYWORD OF THE VARY CONSOLE/HARDCPY COMMAND |
| Comment                                                                |       |            |     |            |                                                                                  |
| ADDRESSIBILITY FOR SVC 34 CSECTS                                       |       |            |     |            |                                                                                  |
| End of Comment                                                         |       |            |     |            |                                                                                  |
| 256                                                                    | (100) | ADDRESS    | 4   | XABS203D   | ADDRESS OF GLUE ROUTINE - IEE0203D                                               |



| Offsets |       |                        |     |               |                                                                             |
|---------|-------|------------------------|-----|---------------|-----------------------------------------------------------------------------|
| Dec     | Hex   | Type/Value             | Len | Name (Dim)    | Description                                                                 |
| 260     | (104) | ADDRESS                | 4   | XAVTAM        | ADDRESS OF VTAM ROUTINE - ISTDFF3D                                          |
| 264     | (108) | ADDRESS                | 4   | XATCAM        | ADDRESS OF TCAM ROUTINE - IED1303D                                          |
| 268     | (10C) | BITSTRING              | 1   | XAGLUE        | FLAGS FOR GLUE ROUTINE                                                      |
|         |       | 1... ....              |     | XANETMOD      | IF ON, VTAM PROCESSING                                                      |
|         |       | .1... ....             |     | XATPMOD       | IF ON, TCAM PROCESSING                                                      |
| 269     | (10D) | BITSTRING              | 1   | XAFLAGS       | MISCELLANEOUS FLAGS                                                         |
|         |       | 1... ....              |     | XAMULTI       | MULTIPLE INSERTS PASSED AS INPUT TO IEE0503D                                |
|         |       | .1... ....             |     | XATRNSPT      | COMMAND HAS BEEN TRANSPORTED TO ANOTHER SYSTEM FOR PROCESSING               |
|         |       | ..1. ....              |     | XACATP        | COMMAND IS TRANSPORTED BY COMMAND ASSOCIATION PROCESSING                    |
|         |       | ...1 ....              |     | XACARJ        | COMMAND IS REJECTED BY COMMAND ASSOCIATION, ASSOCIATED SYSTEM IS NOT ACTIVE |
|         |       | .... 1...<br>.... .111 |     | XAD22R20<br>* | Problem program issued command, will receive ABEND22-20<br>RESERVED         |
| 270     | (10E) | CHARACTER              | 2   | XARES         | RESERVED                                                                    |
| 272     | (110) | ADDRESS                | 4   | XARN403D      | RETURN ADDRESS FOR SVC 34 (IEE0403D)                                        |
| 276     | (114) | CHARACTER              | 8   | XACONSNT      | TARGET CONSOLE NAME                                                         |
| 284     | (11C) | CHARACTER              | 8   | XACONSNI      | ISSUING CONSOLE NAME                                                        |
| 292     | (124) | UNSIGNED               | 4   | XACNSIDT      | FOUR BYTE TARGET CONSOLE ID                                                 |
| 292     | (124) | UNSIGNED               | 1   | XACNSTCL      | TARGET CONSOLE CLASS                                                        |
| 293     | (125) | UNSIGNED               | 3   | XACNSTID      | TARGET CONSOLE ID                                                           |
| 296     | (128) | UNSIGNED               | 4   | XACNSIDI      | FOUR BYTE ISSUING CONSOLE ID                                                |
| 296     | (128) | UNSIGNED               | 1   | XACNSICL      | ISSUING CONSOLE CLASS                                                       |
| 297     | (129) | UNSIGNED               | 3   | XACNSIID      | ISSUING CONSOLE ID                                                          |
| 300     | (12C) | CHARACTER              | 1   | XACMDF        | COMMAND FLAGS                                                               |
|         |       | 1... ....              |     | XACNMCS       | NON-MCS CONSOLE                                                             |
|         |       | .1... ....             |     | XACPLVAL      | VALID MGCRC PARAMETER LIST                                                  |
|         |       | ..1. ....              |     | XAGBDATA      | TARGET CONSOLE HAS GLOBAL DATA                                              |
|         |       | ...1 ....              |     | XARPLY        | COMMAND IS A REPLY                                                          |
|         |       | .... 1...              |     | XARPLYS       | COMMAND IS SECURITY REPLY                                                   |
|         |       | .... .1..              |     | XACMDF4       | RESERVED                                                                    |
|         |       | .... ..1.              |     | XACMDF5       | RESERVED                                                                    |
|         |       | .... ...1              |     | XACMDF6       | RESERVED                                                                    |

Comment

THE XADISP FIELD MUST BE EXACTLY MAPPED BY THE CHDISP FIELD IN THE CSCB (IEECHAIN) AND THE MGCEDISP FIELD IN THE MGCRC PARAMETER LIST (IEZMGCRC).

End of Comment

|     |       |            |   |         |                                              |
|-----|-------|------------|---|---------|----------------------------------------------|
| 301 | (12D) | BITSTRING  | 1 | XADISP  | COMMAND DISPOSITION                          |
|     |       | 1... ....  |   | XADISPA | COMMAND HAS MASTER AUTHORITY AUTHORITY       |
|     |       | .1... .... |   | XADISPM | COMMAND HAS PSEUDO MASTER AUTHORITY          |
|     |       | ..1. ....  |   | XADISPC | COMMAND WAS ISSUED FROM AN MCS CONSOLE       |
|     |       | ...1 ....  |   | XADISPR | COMMAND WAS ISSUED BEFORE RACF WAS ACTIVATED |
|     |       | .... 1...  |   | XADISPE | COMMAND WAS ISSUED BY ARM                    |
|     |       | .... .111  |   | XAARES1 | RESERVED                                     |

Comment

THE XAAUTH FIELD MUST BE EXACTLY MAPPED BY THE CHAUTH FIELD IN THE CSCB (IEECHAIN) AND THE MGCEAUTH FIELD IN THE MGCRC PARAMETER LIST (IEZMGCRC).

End of Comment

|     |       |            |   |         |                            |
|-----|-------|------------|---|---------|----------------------------|
| 302 | (12E) | CHARACTER  | 2 | XAAUTH  | COMMAND AUTHORITY LEVEL    |
| 302 | (12E) | BITSTRING  | 1 | XAAUTHA | BYTE ONE                   |
|     |       | 1... ....  |   | XAAUTH1 | COMMAND HAS SYS AUTHORITY  |
|     |       | .1... .... |   | XAAUTH2 | COMMAND HAS I/O AUTHORITY  |
|     |       | ..1. ....  |   | XAAUTH3 | COMMAND HAS CONS AUTHORITY |
|     |       | ...1 1111  |   | *       | RESERVED                   |
| 303 | (12F) | BITSTRING  | 1 | XAAUTHB | BYTE TWO, RESERVED         |

## XSA Map

| Offsets |       |            |     |            |                                                          |
|---------|-------|------------|-----|------------|----------------------------------------------------------|
| Dec     | Hex   | Type/Value | Len | Name (Dim) | Description                                              |
| 304     | (130) | ADDRESS    | 4   | XACCTXTP   | POINTER TO COMMAND TEXT                                  |
| 308     | (134) | UNSIGNED   | 2   | XACCLEN    | COMMAND TEXT LENGTH                                      |
| 310     | (136) | CHARACTER  | 2   | XARESX     | RESERVED                                                 |
| 312     | (138) | ADDRESS    | 4   | XAUDT      | POINTER TO UDT                                           |
| 316     | (13C) | ADDRESS    | 4   | XALSAV     | POINTER TO OLD COMMAND LINE                              |
| 320     | (140) | CHARACTER  | 8   | XACART     | COMMAND AND RESPONSE TOKEN                               |
| 328     | (148) | CHARACTER  | 4   | XACCERFL   | COMMAND EXIT REQUEST FLAGS                               |
| 328     | (148) | BITSTRING  | 1   | XACCERF1   | REQUEST FLAG BYTE ONE                                    |
|         |       | 1... ....  |     | XACRMI     | COMMAND IMAGE WAS CHANGED                                |
|         |       | .1.. ....  |     | XACRAUT    | COMMAND AUTHORITY LEVEL WAS CHANGED                      |
|         |       | ..11 1111  |     | *          | RESERVED                                                 |
| 329     | (149) | BITSTRING  | 1   | XACCERF2   | REQUEST FLAG BYTE TWO, RESERVED                          |
| 330     | (14A) | BITSTRING  | 1   | XACCERF3   | REQUEST FLAG BYTE THREE, RESERVED                        |
| 331     | (14B) | BITSTRING  | 1   | XACCERF4   | REQUEST FLAG BYTE FOUR, RESERVED                         |
| 332     | (14C) | CHARACTER  | 8   | XADSYSN    | THE ORIGINATING SYSTEM NAME                              |
| 340     | (154) | CHARACTER  | 8   | XASYSNT    | TARGET SYSTEM NAME                                       |
| 348     | (15C) | CHARACTER  | 10  | XALPARM    | L= PARAMETER                                             |
| 358     | (166) | CHARACTER  | 2   | XARES1     | RESERVED                                                 |
| 360     | (168) | ADDRESS    | 4   | XAUTOK     | POINTER TO UTOKEN                                        |
| 364     | (16C) | ADDRESS    | 4   | XARNAME    | POINTER TO 39 BYTE STORAGE FOR RNAME                     |
| 368     | (170) | ADDRESS    | 4   | XACMDAUT   | POINTER FOR CMDAUTH PARAMETER LIST AND FOR RESOURCE NAME |

Comment

THE FOLLOWING FIELD IS TO BE USED BY ALL SVC 34 COMMAND PROCESSORS WHO LOSE ADDRESSABILITY AS A RESULT OF CALLING ANOTHER SVC 34 MODULE. CURRENT USERS ARE AND IEE4003D AND IEE5003D.

End of Comment

|     |       |         |   |          |                     |
|-----|-------|---------|---|----------|---------------------|
| 372 | (174) | ADDRESS | 4 | XACMDSAV | POINTER TO SAVEAREA |
|-----|-------|---------|---|----------|---------------------|

Comment

XACSNM STORES THE COMMAND ASSOCIATION FOR A MCS CONSOLE OR AN EXTENDED MCS CONSOLE. IEE0003D DETERMINES THE VALUE FOR XACSNM. IEE5403D AND IEE1C03D USE THIS VALUE FOR COMMAND ASSOCIATION PROCESSING.

End of Comment

|     |       |           |   |          |                          |
|-----|-------|-----------|---|----------|--------------------------|
| 376 | (178) | CHARACTER | 8 | XACSNM   | COMMAND ASSOCIATION      |
| 384 | (180) | ADDRESS   | 4 | XACGFS   | POINTER TO CGFS PARMLIST |
| 388 | (184) | ADDRESS   | 4 | XACETXTP | POINTER TO ORIGINAL CMD  |
| 392 | (188) | SIGNED    | 4 | XAWORKY  | WORK AREA                |
| 396 | (18C) | SIGNED    | 4 | XAWORKZ  | WORK AREA                |

### Offsets

| Dec | Hex  | Type/Value | Len | Name (Dim) | Description                                       |
|-----|------|------------|-----|------------|---------------------------------------------------|
| 0   | (0)  | STRUCTURE  | 48  | EEXSAS01   |                                                   |
| 0   | (0)  | CHARACTER  | 4   | XAH        | RECORD HEADER                                     |
| 4   | (4)  | CHARACTER  | 8   | XAI        | MESSAGE ID                                        |
| 12  | (C)  | CHARACTER  | 8   | XAF        | FILL (VARIABLE TEXT)                              |
| 20  | (14) | CHARACTER  | 24  | XAT        | PRE-FORMATTED TEXT, DESCRIPTOR CODE, ROUTING CODE |
| 44  | (2C) | SIGNED     | 4   | *          | RESERVED                                          |

### Offsets

| Dec | Hex | Type/Value | Len | Name (Dim) | Description              |
|-----|-----|------------|-----|------------|--------------------------|
| 0   | (0) | STRUCTURE  | 4   | EEXSAS02   |                          |
| 0   | (0) | CHARACTER  | 1   | XADUSWIT   | UNIT FIELD SCAN SWITCHES |

| Offsets |     |            |     |            |                            |
|---------|-----|------------|-----|------------|----------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                |
|         |     | 1... ....  |     | XAXPAREN   | EXTERIOR PARENS            |
|         |     | .1.. ....  |     | XAIPAREN   | INTERIOR PARENS            |
|         |     | ..1. ....  |     | XARES2     | RESERVED                   |
|         |     | ...1 ....  |     | XAUDVC     | NON-CONSOLE DEV            |
|         |     | .... 1...  |     | XARES3     | RESERVED                   |
|         |     | .... .1..  |     | XAIOCOMP   | COMPOSITE CONS             |
|         |     | .... ..1.  |     | XAUNIT     | O-UNIT DEVICE              |
|         |     | .... ...1  |     | XAUBLANK   | MESSAGE ISSUANCE INDICATOR |
| 1       | (1) | CHARACTER  | 1   | XADUD      | UD VALUE                   |
|         |     | 1... ....  |     | XADUDN     | UD VALUE IS N (NO)         |
|         |     | .1.. ....  |     | XADUDY     | UD VALUE IS Y (YES)        |
|         |     | ..11 1111  |     | *          | RESERVED                   |
| 2       | (2) | CHARACTER  | 2   | XACAHOLD   | ISSUER CMD AUTH            |

| Offsets |     |            |     |            |                                          |
|---------|-----|------------|-----|------------|------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                              |
| 0       | (0) | STRUCTURE  | 8   | EEXSAS03   | Y02669 Y02669                            |
| 0       | (0) | ADDRESS    | 1   | XASCID     | CONSOLE ID Y02669                        |
| 1       | (1) | CHARACTER  | 1   | XASDID     | DISPLAY AREA ID Y02669                   |
| 2       | (2) | CHARACTER  | 1   | XASDS      | SDS SWITCHES Y02669                      |
|         |     | 1... ....  |     | XASSDS1    | THIS COMMAND IS A STATUS DISPLAY Y02669  |
|         |     | .1.. ....  |     | XASSDS2    | L OPERAND IS SPECIFIED ON COMMAND Y02669 |
|         |     | ..1. ....  |     | XASSDS3    | COMMAND ISSUER IS NOT COMMTASK           |
|         |     | ...1 ....  |     | XASSDS4    | L OPERAND IS SPECIFIED IN RCT            |
|         |     | .... 1...  |     | XASSDS5    | LOCAL AND CMS LOCKS HELD Y02651          |
|         |     | .... .1..  |     | XASSDS6    | MSGRT CONTINUATION FLAG                  |
|         |     | .... ..1.  |     | XASSDS7    | MSG MUST BE ISSUED VIA WTO               |
|         |     | .... ...1  |     | XASSDS8    | L=CCA MUST BE REMOVED                    |
| 3       | (3) | ADDRESS    | 1   | XASPLS3    | RESERVED Y02669                          |
| 4       | (4) | SIGNED     | 4   | *          | MESSAGE INFO Y02669                      |
| 4       | (4) | ADDRESS    | 1   | XASTSAVE   | ERROR CODE - MINOR Y02669                |
| 5       | (5) | ADDRESS    | 3   | XASOPTR    | POINTER TO INVALID OPERAND Y02669        |

| Offsets |     |            |     |            |                                                                                        |
|---------|-----|------------|-----|------------|----------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                                                            |
| 0       | (0) | STRUCTURE  | 8   | EEXSAS04   | Y02669 Y02669                                                                          |
| 0       | (0) | CHARACTER  | 1   | XAXRSV1    | RESERVED                                                                               |
| 1       | (1) | CHARACTER  | 1   | XAXFREE    | RESERVED Y02669                                                                        |
| 2       | (2) | SIGNED     | 2   | XAXUTME    | UTME=NNN VALUE Y02669                                                                  |
| 4       | (4) | ADDRESS    | 4   | XAXSACB    | FOR TRACK: ADDR OF TRACK CANCEL ECB POINTER IN SACB FOR STOPTR: ADDRESS OF SACB Y02669 |

| Offsets |     |            |     |            |                                        |
|---------|-----|------------|-----|------------|----------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                            |
| 0       | (0) | STRUCTURE  | 8   | EEXSAS05   |                                        |
| 0       | (0) | CHARACTER  | 1   | XASOPCOD   | OPERAND CODES                          |
|         |     | 1... ....  |     | XACON      | CONSOLE                                |
|         |     | .1.. ....  |     | XAUDSPEC   | UD KEYWORD SPECIFIED                   |
|         |     | ..1. ....  |     | XAON       | ONLINE                                 |
|         |     | ...1 ....  |     | XAOFF      | OFFLINE                                |
|         |     | .... 1...  |     | XAROUTKW   | ROUT KEYWORD SPECIFIED ON VARY COMMAND |
|         |     | .... .1..  |     | XALTCOM    | ALTERNATE CONSOLE IS O-UNIT            |
|         |     | .... ..1.  |     | XACMD      | COMD AUTH IS TO BE CHANGED             |
|         |     | .... ...1  |     | XALTCON    | ALTERNATE CONSOLE IS COMPOSITE         |
| 1       | (1) | CHARACTER  | 1   | XASWITCH   | SYNTAX INDICATORS AND SWITCHES         |
|         |     | 1... ....  |     | XAROUT     | ROUTE CODE IS TO BE CHANGED            |
|         |     | .1.. ....  |     | XAHRDCMD   | HARDCOPY OF COMMANDS WANTED            |
|         |     | ..1. ....  |     | XALTCHG    | ALTERNATE CONSOLE IS CHANGED           |
|         |     | ...1. .... |     | XAINHDCP   | INCMDS                                 |

## XSA Map

| Offsets |     |            |     |            |                                                 |
|---------|-----|------------|-----|------------|-------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                     |
|         |     | ...1 ....  |     | XACOMPMS   | COMPOSITE MASTER CONSOLE                        |
|         |     | ...1 ....  |     | XASTHDCP   | STCMDS                                          |
|         |     | .... 1...  |     | XAHRDREQ   | HARDCOPY REQUIRED@Z30LPSV                       |
|         |     | .... .1..  |     | XASMF42    | SMF ROUTER SWITCH IEE4203D                      |
|         |     | .... .1.   |     | XASMF44    | SMF ROUTER SWITCH IEE4403D                      |
|         |     | .... ...1  |     | XACNCNG    | CONSOLE STATE CHANGE INDICATOR USED BY IEE4603D |
| 2       | (2) | CHARACTER  | 1   | XARES9     | EXITS TO AND FROM IEE4803D AND IEE7303D         |
|         |     | 1... ....  |     | XACENDCK   | BRNCH TO CENDCHK                                |
|         |     | .1.. ....  |     | XACRT2     | BRNCH TO CRT2                                   |
| 3       | (3) | CHARACTER  | 1   | XALTPTR    | ALTERNATE CONSOLE UCMID                         |
| 4       | (4) | CHARACTER  | 2   | XACMDATH   | COMMAND AUTH IN COMMAND                         |
| 6       | (6) | CHARACTER  | 1   | XASOPFLG   | OPERAND AND THEIR KEYWORD INDICATORS            |
|         |     | 1... ....  |     | XACMDISM   | CONSOLE IS PSEUDO MASTER                        |
| 7       | (7) | CHARACTER  | 1   | XARES9     | RESERVED                                        |

| Offsets |     |            |     |            |                                                                                              |
|---------|-----|------------|-----|------------|----------------------------------------------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                                                                  |
| 0       | (0) | STRUCTURE  | 2   | EEXSAS06   |                                                                                              |
| 0       | (0) | CHARACTER  | 1   | XAAVRANG   | RANGE FLAGS 1                                                                                |
|         |     | 1... ....  |     | XAARNG1    | VARY RANGE IN PROCESS                                                                        |
|         |     | .1.. ....  |     | XAARNG2    | VARY ENQ RESOURCE HELD                                                                       |
|         |     | ..1. ....  |     | XAARNG3    | VARY RANGE TERMINATION EXIT TO BE TAKEN                                                      |
|         |     | ...1 ....  |     | XAARNG4    | REQUEST TYPE: ON - ONLINE OFF - OFFLINE                                                      |
|         |     | .... 1...  |     | XAARNG5    | ALTERNATE PATH FOUND FOR AT LEAST ONE UNIT OR ZERO UCCTYPE FIELD. D U COUNT NOT INCREMENTED. |
|         |     | .... .1..  |     | XAARNG6    | RESERVED                                                                                     |
|         |     | .... .1.   |     | XAARNG7    | RESERVED                                                                                     |
|         |     | .... ...1  |     | XAARNG8    | RESERVED                                                                                     |
| 1       | (1) | CHARACTER  | 1   | XAAVRNG2   | RANGE FLAGS 2                                                                                |
|         |     | 1... ....  |     | XAARNG9    | RESERVED                                                                                     |
|         |     | .1.. ....  |     | XAARNG10   | RESERVED                                                                                     |
|         |     | ..1. ....  |     | XAARNG11   | RESERVED                                                                                     |
|         |     | ...1 ....  |     | XAARNG12   | RESERVED                                                                                     |
|         |     | .... 1...  |     | XAARNG13   | RESERVED                                                                                     |
|         |     | .... .1..  |     | XAARNG14   | RESERVED                                                                                     |
|         |     | .... .1.   |     | XAARNG15   | RESERVED                                                                                     |
|         |     | .... ...1  |     | XAARNG16   | RESERVED                                                                                     |

| Offsets |     |            |     |            |                                                           |
|---------|-----|------------|-----|------------|-----------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                               |
| 0       | (0) | STRUCTURE  | 16  | EEXSAS07   |                                                           |
| 0       | (0) | ADDRESS    | 4   | XACMDPLA   | ADDR OF PARMETER LIST OF THE COMMAND ATTACHED BY IEE8003D |
| 4       | (4) | ADDRESS    | 4   | XASAVREG   | AREA TO SAVE REG3 FOR IEE8303D                            |
| 8       | (8) | CHARACTER  | 8   | *          | RESERVED                                                  |

| Offsets |     |            |     |            |                                |
|---------|-----|------------|-----|------------|--------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                    |
| 0       | (0) | STRUCTURE  | 4   | EEXSAS09   |                                |
| 0       | (0) | CHARACTER  | 1   | XADSLG1    | Flags                          |
|         |     | 1... ....  |     | XADRLOCL   | Input command is a local REPLY |
|         |     | .111 1111  |     | *          | Reserved                       |
| 1       | (1) | UNSIGNED   | 1   | XADRCODE   | Return code                    |
| 2       | (2) | CHARACTER  | 2   | XADRESV    | Reserved                       |

| Offsets |     |            |     |            |                                            |
|---------|-----|------------|-----|------------|--------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                |
| 0       | (0) | STRUCTURE  | 4   | EEXSAS10   |                                            |
| 0       | (0) | ADDRESS    | 4   | XADPSUBP   | Address of pre-substitution command buffer |

| Offsets |     |            |     |            |                                                           |
|---------|-----|------------|-----|------------|-----------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim) | Description                                               |
| 0       | (0) | STRUCTURE  | *   | XADPSUBB   | Buffer map for pre- substitution command                  |
| 0       | (0) | SIGNED     | 2   | XADPSUBL   | Length of pre-substitution command text                   |
| 2       | (2) | CHARACTER  | *   | XADPSUBT   | Text of pre-substitution command (Maximum 126 characters) |

**XSA Constants**

| Len | Type    | Value | Name     | Description                                  |
|-----|---------|-------|----------|----------------------------------------------|
| 4   | DECIMAL |       | XARNMLEN | LENGTH OF THE STORAGE THAT XARNAME POINTS TO |

Comment

VALUES FOR THE VERSION LEVEL(XAVERSN)

End of Comment

|   |         |  |   |          |                            |
|---|---------|--|---|----------|----------------------------|
| 1 | DECIMAL |  | 1 | XASP21   | Level HBB2102              |
| 1 | DECIMAL |  | 2 | XASP22   | Level JBB2220              |
| 1 | DECIMAL |  | 3 | XASP31   | Level HBB3310              |
| 1 | DECIMAL |  | 4 | XASP313  | Level JBB3313              |
| 1 | DECIMAL |  | 5 | XASP410  | Level HBB4410              |
| 1 | DECIMAL |  | 6 | XASP420  | Level HBB4420              |
| 1 | DECIMAL |  | 6 | XAVERID  | Current Level              |
| 1 | DECIMAL |  | 0 | XADSUBT  | Substitution occurred      |
| 1 | DECIMAL |  | 4 | XADNOSUB | Substitution did not occur |

**XSA Cross Reference**

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| EEXSAS01 | 0          |           | XAAUTH   | 12E        |           |
| EEXSAS02 | 0          |           | XAAUTHA  | 12E        |           |
| EEXSAS03 | 0          |           | XAAUTHB  | 12F        |           |
| EEXSAS04 | 0          |           | XAAUTH1  | 12E        | 80        |
| EEXSAS05 | 0          |           | XAAUTH2  | 12E        | 40        |
| EEXSAS06 | 0          |           | XAAUTH3  | 12E        | 20        |
| EEXSAS07 | 0          |           | XAAVRANG | 0          |           |
| EEXSAS09 | 0          |           | XAAVRNG2 | 1          |           |
| EEXSAS10 | 0          |           | XABEWTO  | 8B         | 08        |
| XAA      | 2A         |           | XABS203D | 100        |           |
| XAARES1  | 12D        | 07        | XABS303D | C8         |           |
| XAARNG1  | 0          | 80        | XABS403D | CC         |           |
| XAARNG10 | 1          | 40        | XACAHOLD | 2          |           |
| XAARNG11 | 1          | 20        | XACARJ   | 10D        | 10        |
| XAARNG12 | 1          | 10        | XACART   | 140        |           |
| XAARNG13 | 1          | 08        | XACATP   | 10D        | 20        |
| XAARNG14 | 1          | 04        | XACBID   | 90         |           |
| XAARNG15 | 1          | 02        | XACCERFL | 148        |           |
| XAARNG16 | 1          | 01        | XACCERF1 | 148        |           |
| XAARNG2  | 0          | 40        | XACCERF2 | 149        |           |
| XAARNG3  | 0          | 20        | XACCERF3 | 14A        |           |
| XAARNG4  | 0          | 10        | XACCERF4 | 14B        |           |
| XAARNG5  | 0          | 08        | XACCLEN  | 134        |           |
| XAARNG6  | 0          | 04        | XACCTXTP | 130        |           |
| XAARNG7  | 0          | 02        | XACENDCK | 2          | 80        |
| XAARNG8  | 0          | 01        | XACETXTP | 184        |           |
| XAARNG9  | 1          | 80        | XACGFS   | 180        |           |
| XAAROUT  | E0         |           | XACMD    | 0          | 02        |

## XSA Cross Reference

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| XACMDATH | 4          |           | XADISPA  | 12D        | 80        |
| XACMDAUT | 170        |           | XADISPC  | 12D        | 20        |
| XACMDF   | 12C        |           | XADISPE  | 12D        | 08        |
| XACMDF4  | 12C        | 04        | XADISPM  | 12D        | 40        |
| XACMDF5  | 12C        | 02        | XADISPR  | 12D        | 10        |
| XACMDF6  | 12C        | 01        | XADPSUBB | 0          |           |
| XACMDISM | 6          | 80        | XADPSUBL | 0          |           |
| XACMDPLA | 0          |           | XADPSUBP | 0          |           |
| XACMDSAV | 174        |           | XADPSUBT | 2          |           |
| XACMFLGA | 88         |           | XADRCODE | 1          |           |
| XACMFLGB | 8A         |           | XADRESV  | 2          |           |
| XACMFLGS | 88         |           | XADRLOCL | 0          | 80        |
| XACMFLG1 | 88         |           | XADROUT  | F0         |           |
| XACMFLG2 | 89         |           | XADSFLG1 | 0          |           |
| XACMFLG3 | 8A         |           | XADSYSN  | 14C        |           |
| XACMFLG4 | 8B         |           | XADUD    | 1          |           |
| XACMF11  | 88         | 80        | XADUDN   | 1          | 80        |
| XACMF12  | 88         | 40        | XADUDY   | 1          | 40        |
| XACMF13  | 88         | 20        | XADUSWIT | 0          |           |
| XACMF14  | 88         | 10        | XAD22R20 | 10D        | 08        |
| XACMF15  | 88         | 08        | XAE      | 10         |           |
| XACMF16  | 88         | 04        | XAF      | C          |           |
| XACMF17  | 88         | 02        | XAFLAGS  | 10D        |           |
| XACMF18  | 88         | 01        | XAGBDATA | 12C        | 20        |
| XACMF21  | 89         | 80        | XAGLUE   | 10C        |           |
| XACMF22  | 89         | 40        | XAH      | 0          |           |
| XACMF23  | 89         | 20        | XAHONLY  | 8B         | 01        |
| XACMF24  | 89         | 10        | XAHRDCMD | 1          | 40        |
| XACMF25  | 89         | 08        | XAHRDREQ | 1          | 08        |
| XACMF26  | 89         | 04        | XAI      | 4          |           |
| XACMF27  | 89         | 02        | XAINHDCP | 1          | 20        |
| XACMF28  | 89         | 01        | XAIOCOMP | 0          | 04        |
| XACMF31  | 8A         | 80        | XAIPAREN | 0          | 40        |
| XACMF32  | 8A         | 40        | XAK      | 2C         |           |
| XACMF33  | 8A         | 20        | XAL      | 15         |           |
| XACMF34  | 8A         | 10        | XALPARM  | 15C        |           |
| XACMF41  | 8B         | 80        | XALSAV   | 13C        |           |
| XACMF42  | 8B         | 40        | XALTCHG  | 1          | 20        |
| XACMF43  | 8B         | 20        | XALTCOM  | 0          | 04        |
| XACMF44  | 8B         | 10        | XALTCON  | 0          | 01        |
| XACNMCS  | 12C        | 80        | XALTPTR  | 3          |           |
| XACNCNG  | 1          | 01        | XAMSRAS  | 94         |           |
| XACNSICL | 128        |           | XAMULTI  | 10D        | 80        |
| XACNSIDI | 128        |           | XAN      | 14         |           |
| XACNSIDT | 124        |           | XANETMOD | 10C        | 80        |
| XACNSIID | 129        |           | XANOBY   | 8B         | 02        |
| XACNSTCL | 124        |           | XAOFF    | 0          | 10        |
| XACNSTID | 125        |           | XAON     | 0          | 20        |
| XACOFFLN | 8A         | 02        | XAUNIT   | 0          | 02        |
| XACOMPMS | 1          | 10        | XAP      | 0          |           |
| XACON    | 0          | 80        | XAR      | 11         |           |
| XACONSNI | 11C        |           | XARES    | 10E        |           |
| XACONSNT | 114        |           | XARESV   | 2          |           |
| XACPLVAL | 12C        | 40        | XARESX   | 136        |           |
| XACRAUT  | 148        | 40        | XARES1   | 166        |           |
| XACRESET | 8A         | 08        | XARES2   | 0          | 20        |
| XACRMI   | 148        | 80        | XARES3   | 0          | 08        |
| XACRT2   | 2          | 40        | XARES9   | 7          |           |
| XACSNM   | 178        |           | XARNAME  | 16C        |           |
| XACSYSMC | 8A         | 01        | XARN003D | C0         |           |
| XACTOKEN | 8C         |           | XARN303D | C4         |           |
| XACTOKHR | 8C         | 80        | XARN403D | 110        |           |
| XACUIRMG | 8A         | 04        | XAROUT   | 1          | 80        |
| XAD      | 4          |           | XAROUTKW | 0          | 08        |
| XADISP   | 12D        |           | XARPLY   | 12C        | 10        |

| Name     | Hex Offset | Hex Value | Name     | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| XARPLYS  | 12C        | 08        | XAV2     | 1C         |           |
| XARTCODE | D0         |           | XAWORK   | 98         |           |
| XAS      | 20         |           | XAWORKA  | 98         |           |
| XASAVLC1 | 30         |           | XAWORKB  | 9C         |           |
| XASAVLC2 | 34         |           | XAWORKC  | A0         |           |
| XASAVLC3 | 38         |           | XAWORKD  | A4         |           |
| XASAVLC4 | 3C         |           | XAWORKE  | A8         |           |
| XASAVLOX | 30         |           | XAWORKF  | AC         |           |
| XASAVREG | 4          |           | XAWORKG  | B0         |           |
| XASAVSDA | 40         |           | XAWORKH  | B4         |           |
| XASAVSDB | 44         |           | XAWORKI  | B9         |           |
| XASAVSDC | 48         |           | XAWORKJ  | BC         |           |
| XASAVSDD | 4C         |           | XAWORKY  | 188        |           |
| XASAVSDE | 50         |           | XAWORKZ  | 18C        |           |
| XASAVSDF | 54         |           | XAX      | 8          |           |
| XASAVSDG | 58         |           | XAXFREE  | 1          |           |
| XASAVSDH | 5C         |           | XAXPAREN | 0          | 80        |
| XASAVSDI | 60         |           | XAXRSV1  | 0          |           |
| XASAVSDJ | 64         |           | XAXSACB  | 4          |           |
| XASAVSDK | 68         |           | XAXSPLA  | CC         |           |
| XASAVSDL | 6C         |           | XAXUTME  | 2          |           |
| XASAVSDM | 70         |           | XSA      | 0          |           |
| XASAVSDN | 74         |           | XSAMAP   | 0          |           |
| XASAVSDO | 78         |           |          |            |           |
| XASAVSDP | 7C         |           |          |            |           |
| XASAVSDQ | 80         |           |          |            |           |
| XASAVSDR | 84         |           |          |            |           |
| XASAVSTR | 40         |           |          |            |           |
| XASCID   | 0          |           |          |            |           |
| XASDID   | 1          |           |          |            |           |
| XASDS    | 2          |           |          |            |           |
| XASMF42  | 1          | 04        |          |            |           |
| XASMF44  | 1          | 02        |          |            |           |
| XASOPCOD | 0          |           |          |            |           |
| XASOPFLG | 6          |           |          |            |           |
| XASOPTR  | 5          |           |          |            |           |
| XASPLS3  | 3          |           |          |            |           |
| XASSDS1  | 2          | 80        |          |            |           |
| XASSDS2  | 2          | 40        |          |            |           |
| XASSDS3  | 2          | 20        |          |            |           |
| XASSDS4  | 2          | 10        |          |            |           |
| XASSDS5  | 2          | 08        |          |            |           |
| XASSDS6  | 2          | 04        |          |            |           |
| XASSDS7  | 2          | 02        |          |            |           |
| XASSDS8  | 2          | 01        |          |            |           |
| XASTHDCP | 1          | 10        |          |            |           |
| XASTSAVE | 4          |           |          |            |           |
| XASUBSTU | 8B         | 04        |          |            |           |
| XASVRB   | 0          |           |          |            |           |
| XASWITCH | 1          |           |          |            |           |
| XASYSNT  | 154        |           |          |            |           |
| XAT      | 14         |           |          |            |           |
| XATCAM   | 108        |           |          |            |           |
| XATPMOD  | 10C        | 40        |          |            |           |
| XATRNSPT | 10D        | 40        |          |            |           |
| XAU      | 28         |           |          |            |           |
| XAUBLANK | 0          | 01        |          |            |           |
| XAUDSPEC | 0          | 40        |          |            |           |
| XAUDT    | 138        |           |          |            |           |
| XAUDVC   | 0          | 10        |          |            |           |
| XAUTOK   | 168        |           |          |            |           |
| XAV      | 18         |           |          |            |           |
| XAVERSN  | B8         |           |          |            |           |
| XAVTAM   | 104        |           |          |            |           |
| XAV1     | 18         |           |          |            |           |





## XSB Heading Information

**Common Name:** EXTENDED STATUS BLOCK  
**Macro ID:** IHAXSB  
**DSECT Name:** XSB  
**Owning Component:** SUPERVISOR CONTROL (SC1C5)  
**Eye-Catcher ID:** XSB  
 Offset: 0  
 Length: 4  
**Storage Attributes:** Subpool: 255 (ELSQA) OR 238 (COMMON)  
 Key: 0  
 Residency: ABOVE 16 MB LINE  
**Size:** 128 BYTES  
**Created by:** IEAVEXPM  
 IEAVESVC  
 IEAVEMIN  
 IEAMSWCB  
 IEAVESPM  
**Pointed to by:** IHSAXSB FOR XSB OF IHSA  
 SSRBXSBB FOR XSB OF SSRB  
 RBXSBB FOR XSB OF IRB,PRB,SIRB,SVRB  
 TCBXSBB CURRENT XSB OF TASK  
**Serialization:** XSB OF IHSA - LOCAL LOCK  
 XSB OF SSRB - N/A  
 XSB OF IRB,PRB,SIRB,SVRB - TCBACTIV  
**Function:** CONTAINS ADDITIONAL INFORMATION REQUIRED FOR DISPATCH OR  
 REDISPATCH OF WORK UNIT.

## XSB Map

| Offsets |      |            |     |              |                                                                                                                                                        |
|---------|------|------------|-----|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)   | Description                                                                                                                                            |
| 0       | (0)  | STRUCTURE  | 0   | XSB          |                                                                                                                                                        |
| 0       | (0)  | DBL WORD   | 8   | XSBBEGIN (0) | BEGINNING OF XSB.                                                                                                                                      |
| 0       | (0)  | CHARACTER  | 4   | XSBXSBB      | XSB ACRONYM.                                                                                                                                           |
| 4       | (4)  | SIGNED     | 4   | XSBLINK (0)  | LINK TO NEXT AVAILABLE XSB IN POOL. SET BY EXIT,<br>IEAVEOR, WHEN PUTTING XSB IN POOL. CLEARED BY<br>STAGE 3, IEAVEEEE0, WHEN ASSIGNING XSB TO AN IRB. |
| 4       | (4)  | SIGNED     | 4   | XSBFLGS      | XSB FLAGS.                                                                                                                                             |
| 8       | (8)  | DBL WORD   | 8   | XSBXMCRS (0) | CROSS MEMORY STATUS CONTROL REGS.                                                                                                                      |
| 8       | (8)  | SIGNED     | 4   | XSBXMCR3 (0) | CONTROL REG 3.                                                                                                                                         |
| 8       | (8)  | SIGNED     | 2   | XSBKMM       | KEY MASK.                                                                                                                                              |
| 10      | (A)  | SIGNED     | 2   | XSBASID      | SECONDARY ASID.                                                                                                                                        |
| 12      | (C)  | SIGNED     | 4   | XSBXMCR4 (0) | CONTROL REG 4.                                                                                                                                         |
| 12      | (C)  | SIGNED     | 2   | XSBAX        | AUTHORIZATION INDEX.                                                                                                                                   |
| 14      | (E)  | SIGNED     | 2   | XSBPASID     | PRIMARY ASID.                                                                                                                                          |
| 16      | (10) | DBL WORD   | 8   | XSBXMLE (0)  | CML LOCK STATUS ELEMENT.                                                                                                                               |
| 16      | (10) | ADDRESS    | 4   | XSBXLIDR     | DATA FOR IDENTIFICATION OF CML REQUESTOR. ASID<br>ASSOCIATED WITH SRB MODE CML LOCK REQUESTOR (IN<br>XSB OF SSRB).                                     |
| 20      | (14) | ADDRESS    | 4   | XSBXLAS      | ASCB ADDRESS OF CML LOCK REQUESTED/OWNED.                                                                                                              |
| 24      | (18) | DBL WORD   | 8   | XSBSTKE (0)  | CURRENT PCLINK STACK INFORMATION.                                                                                                                      |
| 24      | (18) | SIGNED     | 2   | XSBTKN       | CURRENT STACK TOKEN.                                                                                                                                   |
| 26      | (1A) | SIGNED     | 2   | XSBASD       | CURRENT STACK ADDRESS SPACE DESIGNATOR.                                                                                                                |
| 28      | (1C) | ADDRESS    | 4   | XSBSEL       | CURRENT STACK ELEMENT ADDRESS.                                                                                                                         |

## XSB Map

| Offsets |      |            |     |             |                                                                                                                                                                               |
|---------|------|------------|-----|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dec     | Hex  | Type/Value | Len | Name (Dim)  | Description                                                                                                                                                                   |
| 32      | (20) | BITSTRING  | 4   | XSBSRSN     | SUSPEND/RESUME SEQUENCE NUMBER OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: TCBACTIV AND DISABLEMENT                                                                          |
| 36      | (24) | SIGNED     | 4   | XSBEAXW (0) | EAX VALUE WORD.                                                                                                                                                               |
| 36      | (24) | SIGNED     | 2   | XSBEAX      | EAX VALUE.                                                                                                                                                                    |
| 38      | (26) | SIGNED     | 2   |             | LOWER HALF OF FULLWORD USED TO HOLD EAX VALUE - PROVIDED SO THAT STCTL CAN BE USED TO STORE CONTROL REGISTER 8 INTO XSBEAXW. THE CONTENTS OF THIS HALFWORD ARE UNPREDICTABLE. |
| 40      | (28) | ADDRESS    | 4   | XSBALOV     | DISPATCHABLE UNIT ACCESS LIST VIRTUAL ADDRESS.                                                                                                                                |
| 44      | (2C) | ADDRESS    | 4   | XSBALD      | DISPATCHABLE UNIT ACCESS LIST REAL ADDRESS.                                                                                                                                   |
| 48      | (30) | BITSTRING  | 64  | XSBAR0 (0)  | ACCESS REGISTER SAVEAREA.                                                                                                                                                     |
| 48      | (30) | SIGNED     | 4   | XSBAR0      | ACCESS REGISTER 0.                                                                                                                                                            |
| 52      | (34) | SIGNED     | 4   | XSBAR1      | ACCESS REGISTER 1.                                                                                                                                                            |
| 56      | (38) | SIGNED     | 4   | XSBAR2      | ACCESS REGISTER 2.                                                                                                                                                            |
| 60      | (3C) | SIGNED     | 4   | XSBAR3      | ACCESS REGISTER 3.                                                                                                                                                            |
| 64      | (40) | SIGNED     | 4   | XSBAR4      | ACCESS REGISTER 4.                                                                                                                                                            |
| 68      | (44) | SIGNED     | 4   | XSBAR5      | ACCESS REGISTER 5.                                                                                                                                                            |
| 72      | (48) | SIGNED     | 4   | XSBAR6      | ACCESS REGISTER 6.                                                                                                                                                            |
| 76      | (4C) | SIGNED     | 4   | XSBAR7      | ACCESS REGISTER 7.                                                                                                                                                            |
| 80      | (50) | SIGNED     | 4   | XSBAR8      | ACCESS REGISTER 8.                                                                                                                                                            |
| 84      | (54) | SIGNED     | 4   | XSBAR9      | ACCESS REGISTER 9.                                                                                                                                                            |
| 88      | (58) | SIGNED     | 4   | XSBARA      | ACCESS REGISTER 10.                                                                                                                                                           |
| 92      | (5C) | SIGNED     | 4   | XSBARB      | ACCESS REGISTER 11.                                                                                                                                                           |
| 96      | (60) | SIGNED     | 4   | XSBARC      | ACCESS REGISTER 12.                                                                                                                                                           |
| 100     | (64) | SIGNED     | 4   | XSBAR D     | ACCESS REGISTER 13.                                                                                                                                                           |
| 104     | (68) | SIGNED     | 4   | XSBAR E     | ACCESS REGISTER 14.                                                                                                                                                           |
| 108     | (6C) | SIGNED     | 4   | XSBAR F     | ACCESS REGISTER 15.                                                                                                                                                           |
| 112     | (70) | BITSTRING  | 1   | XSBFLAG2    | FLAG BYTE.                                                                                                                                                                    |
|         |      | 1... ....  |     | XSBLSUSB    | "X'80" LINKAGE STACK UNSTACK SUPPRESSION BIT.                                                                                                                                 |
|         |      | .1.. ....  |     | XSBLSRST    | "X'40" IF ONE, EXIT & EXIT PROLOG WILL NOT ENFORCE THE LINKAGE STACK CHECKPOINT, JUST RESTORE THE LINKAGE STACK. SET IN THE EXITING RB.                                       |
|         |      | ..1. ....  |     | XSBLSESB    | "X'20" LINKAGE STACK EXTRACT/MODIFY SUPPRESSION BIT                                                                                                                           |
| 113     | (71) | BITSTRING  | 3   | XSBRO71     | RESERVED.                                                                                                                                                                     |
| 116     | (74) | ADDRESS    | 4   | XSBLSCP     | LINKAGE STACK CHECKPOINT ADDRESS.                                                                                                                                             |
| 120     | (78) | ADDRESS    | 4   | XSBXSXB     | POINTER TO SXSB.                                                                                                                                                              |
| 124     | (7C) | BITSTRING  | 4   | XSBRO7C     | RESERVED.                                                                                                                                                                     |
| 128     | (80) | DBL WORD   | 8   | (0)         |                                                                                                                                                                               |
| 128     | (80) | BITSTRING  | 64  | XSBG64H (0) | 64-BIT GPR HIGH ORDER HALF SAVEAREA                                                                                                                                           |
| 128     | (80) | SIGNED     | 4   | XSBG64H0    | 64-BIT GPR 0 BITS 0-31                                                                                                                                                        |
| 132     | (84) | SIGNED     | 4   | XSBG64H1    | 64-BIT GPR 1 BITS 0-31                                                                                                                                                        |
| 136     | (88) | SIGNED     | 4   | XSBG64H2    | 64-BIT GPR 2 BITS 0-31                                                                                                                                                        |
| 140     | (8C) | SIGNED     | 4   | XSBG64H3    | 64-BIT GPR 3 BITS 0-31                                                                                                                                                        |
| 144     | (90) | SIGNED     | 4   | XSBG64H4    | 64-BIT GPR 4 BITS 0-31                                                                                                                                                        |
| 148     | (94) | SIGNED     | 4   | XSBG64H5    | 64-BIT GPR 5 BITS 0-31                                                                                                                                                        |
| 152     | (98) | SIGNED     | 4   | XSBG64H6    | 64-BIT GPR 6 BITS 0-31                                                                                                                                                        |
| 156     | (9C) | SIGNED     | 4   | XSBG64H7    | 64-BIT GPR 7 BITS 0-31                                                                                                                                                        |
| 160     | (A0) | SIGNED     | 4   | XSBG64H8    | 64-BIT GPR 8 BITS 0-31                                                                                                                                                        |
| 164     | (A4) | SIGNED     | 4   | XSBG64H9    | 64-BIT GPR 9 BITS 0-31                                                                                                                                                        |
| 168     | (A8) | SIGNED     | 4   | XSBG64HA    | 64-BIT GPR 10 BITS 0-31                                                                                                                                                       |
| 172     | (AC) | SIGNED     | 4   | XSBG64HB    | 64-BIT GPR 11 BITS 0-31                                                                                                                                                       |
| 176     | (B0) | SIGNED     | 4   | XSBG64HC    | 64-BIT GPR 12 BITS 0-31                                                                                                                                                       |
| 180     | (B4) | SIGNED     | 4   | XSBG64HD    | 64-BIT GPR 13 BITS 0-31                                                                                                                                                       |
| 184     | (B8) | SIGNED     | 4   | XSBG64HE    | 64-BIT GPR 14 BITS 0-31                                                                                                                                                       |
| 188     | (BC) | SIGNED     | 4   | XSBG64HF    | 64-BIT GPR 15 BITS 0-31                                                                                                                                                       |
| 192     | (C0) | BITSTRING  | 8   | XSBRTRNE    | VIRTUAL ADDRESS CAUSING TRANSLATION EXCEPTION IF PROGRAM INTERRUPT X'10', X'11', X'39', X'3A'                                                                                 |
| 200     | (C8) | DBL WORD   | 8   | XSBEND (0)  | END OF XSB.                                                                                                                                                                   |
| 200     | (C8) | X'C8'      | 0   | XSBLEN      | "XSBEND-XSBBEGIN" LENGTH OF XSB.                                                                                                                                              |
| 200     | (C8) | X'A'       | 0   | XSBPCNT     | "10" XSB POOL COUNT.                                                                                                                                                          |
| 200     | (C8) | X'A'       | 0   | XSBPXCNT    | "10" XSB POOL EXTENT COUNT.                                                                                                                                                   |

## XSB Cross Reference

| Name     | Hex<br>Offset | Hex<br>Value | Name     | Hex<br>Offset | Hex<br>Value |
|----------|---------------|--------------|----------|---------------|--------------|
| XSB      | 0             |              | XSBXSXB  | 78            |              |
| XSBALD   | 2C            |              | XSBTKN   | 18            |              |
| XSBALOV  | 28            |              | XSBXLAS  | 14            |              |
| XSBARA   | 58            |              | XSBXLIDR | 10            |              |
| XSBARB   | 5C            |              | XSBXMCRS | 8             |              |
| XSBARC   | 60            |              | XSBXMCR3 | 8             |              |
| XSBARD   | 64            |              | XSBXMCR4 | C             |              |
| XSBARE   | 68            |              | XSBXSB   | 0             |              |
| XSBARF   | 6C            |              |          |               |              |
| XSBARS   | 30            |              |          |               |              |
| XSBAR0   | 30            |              |          |               |              |
| XSBAR1   | 34            |              |          |               |              |
| XSBAR2   | 38            |              |          |               |              |
| XSBAR3   | 3C            |              |          |               |              |
| XSBAR4   | 40            |              |          |               |              |
| XSBAR5   | 44            |              |          |               |              |
| XSBAR6   | 48            |              |          |               |              |
| XSBAR7   | 4C            |              |          |               |              |
| XSBAR8   | 50            |              |          |               |              |
| XSBAR9   | 54            |              |          |               |              |
| XSBASD   | 1A            |              |          |               |              |
| XSBAX    | C             |              |          |               |              |
| XSBBEGIN | 0             |              |          |               |              |
| XSB CMLE | 10            |              |          |               |              |
| XSB EAX  | 24            |              |          |               |              |
| XSB EAXW | 24            |              |          |               |              |
| XSBEND   | C8            |              |          |               |              |
| XSBFLAG2 | 70            |              |          |               |              |
| XSBFLGS  | 4             |              |          |               |              |
| XSBG64H  | 80            |              |          |               |              |
| XSBG64HA | A8            |              |          |               |              |
| XSBG64HB | AC            |              |          |               |              |
| XSBG64HC | B0            |              |          |               |              |
| XSBG64HD | B4            |              |          |               |              |
| XSBG64HE | B8            |              |          |               |              |
| XSBG64HF | BC            |              |          |               |              |
| XSBG64H0 | 80            |              |          |               |              |
| XSBG64H1 | 84            |              |          |               |              |
| XSBG64H2 | 88            |              |          |               |              |
| XSBG64H3 | 8C            |              |          |               |              |
| XSBG64H4 | 90            |              |          |               |              |
| XSBG64H5 | 94            |              |          |               |              |
| XSBG64H6 | 98            |              |          |               |              |
| XSBG64H7 | 9C            |              |          |               |              |
| XSBG64H8 | A0            |              |          |               |              |
| XSBG64H9 | A4            |              |          |               |              |
| XSBKM    | 8             |              |          |               |              |
| XSBLEN   | C8            | C8           |          |               |              |
| XSBLINK  | 4             |              |          |               |              |
| XSBLSCP  | 74            |              |          |               |              |
| XSBLSESB | 70            | 20           |          |               |              |
| XBLSRST  | 70            | 40           |          |               |              |
| XSBLSUB  | 70            | 80           |          |               |              |
| XSBPASID | E             |              |          |               |              |
| XSBPCNT  | C8            | A            |          |               |              |
| XSBPCXNT | C8            | A            |          |               |              |
| XSBRTRNE | C0            |              |          |               |              |
| XSBR07C  | 7C            |              |          |               |              |
| XSBR071  | 71            |              |          |               |              |
| XSBSASID | A             |              |          |               |              |
| XSBSEL   | 1C            |              |          |               |              |
| XBSRSN   | 20            |              |          |               |              |
| XSBSTKE  | 18            |              |          |               |              |



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## XTLST Programming Interface information

Programming Interface information

XTLST

End of Programming Interface information

## XTLST Heading Information

**Common Name:** Extent List  
**Macro ID:** IHAXTLST  
**DSECT Name:** XTLST  
**Owning Component:** Contents Supervision (SC1CJ)  
**Eye-Catcher ID:** none  
**Storage Attributes:** Subpool: 245 (global), 255 (local)  
 Key: 0  
**Size:** 16 bytes (single extent) + 8 bytes / additional extent  
**Created by:** CSVFORKM (local) - CSV Fork exit processing  
  
 CSVLLEXT (SP241 for exit CSVLLIX1) - Library Lookaside Exit Manager  
  
 CSVLLTCH (local) - LLA module fetch  
  
 CSVVFTCH (in VFWK) - Virtual Fetch  
  
 IEAVID00 (local) - IDENTIFY JPA processing  
  
 Certain DFSMS services  
  
 IEAVID00 (global) - IDENTIFY LPA processing  
  
 IEAVNPD5 (global) - Pageable Device support module loader  
**Pointed to by:** CDXLMJP (field in CDE)  
**Serialization:** Local Lock.  
**Function:** The XTLST contains information about the number, size, and location of the extents of a load module or program object.

## XTLST Map

| Offsets |     |            |     |              |                                                         |
|---------|-----|------------|-----|--------------|---------------------------------------------------------|
| Dec     | Hex | Type/Value | Len | Name (Dim)   | Description                                             |
| 0       | (0) | STRUCTURE  | 0   | XTLST        |                                                         |
| 0       | (0) | SIGNED     | 4   | XTLLNTH      | - Number of bytes in extent list (=16)                  |
| 4       | (4) | SIGNED     | 4   | XTLNRFAC     | - Number of relocation factors (extents) =1             |
| 8       | (8) | ADDRESS    | 4   | XTLMSBLA (0) | - Fullword length of main storage block (module extent) |
| 8       | (8) | CHARACTER  | 1   |              | - End of extent list indication (X'80')                 |
| 9       | (9) | ADDRESS    | 3   | XTLMSBLN     | - Length of main storage block (extent)                 |
| 12      | (C) | ADDRESS    | 4   | XTLMSBAA (0) | - Fullword address of main storage block                |
| 12      | (C) | ADDRESS    | 4   | XTLMSBAD     | - Address of main storage block                         |

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## Appendix A. Accessibility

Accessibility features help a user who has a physical disability, such as restricted mobility or limited vision, to use software products successfully. The major accessibility features in z/OS enable users to:

- Use assistive technologies such as screen-readers and screen magnifier software
- Operate specific or equivalent features using only the keyboard
- Customize display attributes such as color, contrast, and font size.

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### Using assistive technologies

Assistive technology products, such as screen-readers, function with the user interfaces found in z/OS. Consult the assistive technology documentation for specific information when using it to access z/OS interfaces.

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### Keyboard navigation of the user interface

Users can access z/OS user interfaces using TSO/E or ISPF. Refer to *z/OS TSO/E Primer*, *z/OS TSO/E User's Guide*, and *z/OS ISPF User's Guide Volume I* for information about accessing TSO/E and ISPF interfaces. These guides describe how to use TSO/E and ISPF, including the use of keyboard shortcuts or function keys (PF keys). Each guide includes the default settings for the PF keys and explains how to modify their functions.





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This book primarily documents information that is **NOT** intended to be used as Programming Interfaces of z/OS.

This book also documents intended Programming Interfaces that allow the customer to write programs to obtain the services of z/OS.

This information is identified where it occurs, either by an introductory statement to a chapter or section or by the following marking:

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_____ End of Programming Interface information _____
```

Unless otherwise specified, for data areas classified as programming interfaces, the **MACRO ID** and **DSECT NAME(S)** in the header are part of the programming interface. **ALL** other header information is included for diagnostic purposes **ONLY**.

Since a *data area name* that is designated as part of the programming interface is one of the following:

- MACRO ID
- DSECT NAME

- commonly-used name

before including the *data area name* in a program, refer to the data area header for the applicable **MACRO ID**.

If only certain fields in a data area are intended or not intended for use as a programming interface, the specific field name(s) are differentiated within this book.

For data areas classified as programming interfaces, “RESERVED FOR USER” fields are part of the interface; all other “**RESERVED ...**” fields are **NOT** part of the interface.

For a field that is part of the programming interface, the only information that is part of the interface for writing programs is:

- field name
- data type
- field length
- description (purpose or allowed values)

**INCLUDE ONLY** data area: **ONLY** the MACRO ID is the programming interface. The DSECT NAME, constants, and data area itself are **NOT** part of the programming interface.

**TOKEN ONLY** data area: **ONLY** the address of the data area is a programming interface. The DSECT NAME, constants, and data area itself are **NOT** part of the programming interface.

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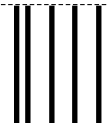


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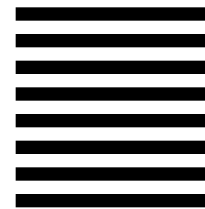
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