

z/OS



# JES2 Data Areas Volume 5



z/OS



# JES2 Data Areas Volume 5

**Note**

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 271.

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This edition applies to Version 2 Release 1 of z/OS (5650-ZOS) and to all subsequent releases and modifications until otherwise indicated in new editions.

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# Contents

<b>About this information</b> . . . . .	v	<b>\$TLGWORK Information</b> . . . . .	83
Who should use this information . . . . .	v	<b>\$TQE Information</b> . . . . .	87
How to use this information . . . . .	v	<b>\$TRCA Information</b> . . . . .	93
The header . . . . .	v	<b>\$TRE Information</b> . . . . .	99
Data area map . . . . .	vii	<b>\$TRX Information</b> . . . . .	111
Cross reference . . . . .	viii	<b>\$TTETBL Information</b> . . . . .	115
<b>Programming interface information</b> . . . . .	ix	<b>\$WARMWRK Information</b> . . . . .	119
<b>\$SPMWORK Information</b> . . . . .	1	<b>\$WAVE Information</b> . . . . .	125
<b>\$SPNWORK Information</b> . . . . .	5	<b>\$WLMD Information</b> . . . . .	141
<b>\$SPOOLCB Information</b> . . . . .	9	<b>\$WSA Information</b> . . . . .	153
<b>\$SQD Information</b> . . . . .	11	<b>\$WSC Information</b> . . . . .	159
<b>\$SRW Information</b> . . . . .	15	<b>\$WSP Information</b> . . . . .	163
<b>\$STAC Information</b> . . . . .	23	<b>\$XBCWORK Information</b> . . . . .	167
<b>\$STCWORK Information</b> . . . . .	25	<b>\$XCMWORK Information</b> . . . . .	171
<b>\$STW Information</b> . . . . .	29	<b>\$XECB Information</b> . . . . .	177
<b>\$SWBIT Information</b> . . . . .	35	<b>\$XEQWORK Information</b> . . . . .	181
<b>\$SXADDR Information</b> . . . . .	41	<b>\$XFMWORK Information</b> . . . . .	185
<b>\$SYMCB Information</b> . . . . .	57	<b>\$XIT Information</b> . . . . .	189
<b>\$S35D Information</b> . . . . .	61	<b>\$XMAS Information</b> . . . . .	191
<b>\$TAB Information</b> . . . . .	65	<b>\$XPL Information</b> . . . . .	211
<b>\$TED Information</b> . . . . .	67	<b>\$XPWORK Information</b> . . . . .	253
<b>\$TEWA Information</b> . . . . .	71	<b>\$XREQ Information</b> . . . . .	255
<b>\$TEXWORK Information</b> . . . . .	75	<b>\$XRQ Information</b> . . . . .	267
<b>\$TGB Information</b> . . . . .	77	<b>Notices</b> . . . . .	271
<b>\$TIMWORK Information</b> . . . . .	79		
<b>\$TIPSWRK Information</b> . . . . .	81		



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## About this information

This information is a graphic presentation of many data areas used by the z/OS operating system and by application programs. The data areas are one or more of the following:

- Programming interfaces
- Needed for debugging or diagnosis.

This information supports z/OS (5650-ZOS).

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## Who should use this information

This information 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 information should have a working knowledge of the functions and logic of the operating system.

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## How to use this information

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

## 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><li><b>Subpool and Key:</b> 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.</li></ul>
<b>Size:</b>	The size of the data area in decimal bytes.
<b>Created by:</b>	Module, macro, or component whose use creates the data area.
<b>Pointed to by:</b>	Registers or data area fields that contain the address of the data area.
<b>Serialization:</b>	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: <ul style="list-style-type: none"><li>• Lock or locks</li><li>• ENQ and DEQ macros</li><li>• Compare and Swap (CS) instruction</li></ul>

- 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.

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## Programming interface information

This document contains information NOT intended to be used as programming interfaces of z/OS.

This document also contains 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:

Programming Interface information
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 the data area.

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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## **\$SPMWORK Information**

### **\$SPMWORK Programming Interface information**

\_\_\_\_\_ Programming Interface information \_\_\_\_\_

**\$SPMWORK**

\_\_\_\_\_ End of Programming Interface information \_\_\_\_\_

## Heading Information • \$SPMWORK Map

### \$SPMWORK Heading Information

**Common Name:** JES2 Spool Manager Work Area  
**Macro ID:** \$SPMWORK  
**DSECT Name:** PCE (\$SPMWORK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4  
**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE  
**Size:** See symbol SPMLNGTH for the length of this work area. The overall length of the PCE is stored in field PCELENG.  
**Created by:** See \$PCE  
**Pointed to by:** The \$SPOLPCE field of the \$HCT data area points to the spool manager PCE. See \$PCE for other pointer fields that apply to all PCE types.  
**Serialization:** Normal PCE dispatch serialization  
**Function:** The fields in this work area are used by the JES2 spool manager PCE. \$SPMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$SPMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESPMID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

### \$SPMWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP SPOOL MANAGER PROCESSOR
312	(138)	BITSTRING	1	SPMXECB	XECB TO POST SPOOL MANAGER PCE
Comment					
SMMOVER - MOVE ROUTINE WORK AREA					
End of Comment					
336	(150)	ADDRESS	4	SPMJCTBF	POINTER TO JCT BUFFER
340	(154)	ADDRESS	4	SPMALLOC	POINTER TO ALLOCATION IOT BUFFER
344	(158)	ADDRESS	4	SPMIOTBF	POINTER TO SECONDARY IOT BUFFER
348	(15C)	ADDRESS	4	SPMCURBF	POINTER TO CURRENT I/O BUFFER
352	(160)	ADDRESS	4	SPMNXTBF	POINTER TO SECONDARY I/O BUFFER
356	(164)	BITSTRING	6	SPMWRTRK	Track address (MQTR) for next buffer write.
362	(16A)	BITSTRING	6	SPMRDTRK	Track address (MQTR) for next buffer read
368	(170)	BITSTRING	6	SPMIOTRG	Track address (MQTR) of first regular IOT
374	(176)	BITSTRING	6	SPMIOTSP	Track address (MQTR) of spin IOT chain
380	(17C)	BITSTRING	6	SPMOCTTK	Track address (MQTR) of OCT chain
386	(182)	CHARACTER	8	SPMTOKEN	PIN token for \$GETUCBS
396	(18C)	SIGNED	4	(0)	Ensure fullword <-- alignment in case SPMSG I is used for WTOR I
396	(18C)	BITSTRING	120	SPMSG	Message work area <--
516	(204)	BITSTRING	1	SPMREPLY	Reply area
517	(205)	BITSTRING	1	SPMFLAG1	Spool Manager flag byte
518	(206)	BITSTRING	2		Reserved

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
\$BLDMSG MF=L Used for \$BLDMSG					
End of Comment					
520	(208)	SIGNED	4	SPMBLDM (0)	Control block ID
524	(20C)	BITSTRING	4		Console ID
528	(210)	ADDRESS	4		Address of the CART
532	(214)	ADDRESS	4		Pointer for JOBID
536	(218)	ADDRESS	4		Control block address
540	(21C)	ADDRESS	4		Display routine address
544	(220)	ADDRESS	4	(6)	6 word work area
568	(238)	ADDRESS	4		Caller's R11 value
572	(23C)	BITSTRING	2		ROUT code for Message
574	(23E)	BITSTRING	2		Not used
576	(240)	CHARACTER	4		Message ID
580	(244)	CHARACTER	1		Separator character
581	(245)	ADDRESS	1		Flag byte 1
582	(246)	ADDRESS	1		'DISPER'
583	(247)	ADDRESS	1		Flag byte 2
584	(248)	ADDRESS	1		Flag byte 3
585	(249)	CHARACTER	8		Symbolic name of dest.
593	(251)	BITSTRING	15		Not used
608	(260)	ADDRESS	4	(0)	Ensure multiple of 4
608	(260)	ADDRESS	2	(0)	
608	(260)	SIGNED	4	(0)	ENSURE FULLWORD ALIGNMENT
608	(260)	BITSTRING	13	SPMDASWK	DAS indicators save area
621	(26D)	BITSTRING	3		Reserved
624	(270)	DBL WORD	8	SPMGSTRT (2)	STCKE SMCMGNEW last entered
624	(270)	X'148'	0	SPMLNGTH	** -PCEWORK" SPMWORK LENGTH

Comment					
SPMFLAG1 FIRST FLAG BYTE DEFINITIONS					
End of Comment					
		1... ....		SPM1ERR	"B'10000000" ERROR ENCOUNTERED DURING JOB MOVE
		.1.. ....		SPM1TGA	"B'01000000" AT LEAST ONE TG ALLOC FOR MOVE
		..1. ....		SPM1STUN	"B'00100000" DADSTUNT called

**\$SPMWORK Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PCE	0		SPMXECB	138	0
SPMALLOC	154		SPM1ERR	270	80
SPMBLDM	208	C2D3C440	SPM1STUN	270	20
SPMCURBF	15C		SPM1TGA	270	40
SPMDASWK	260				
SPMFLAG1	205				
SPMGSTRT	270				
SPMIOTBF	158				
SPMIOTRG	170	0			
SPMIOTSP	176	0			
SPMJCTBF	150				
SPMLNGTH	270	148			
SPMNXTBF	160				
SPMOCTTK	17C	0			
SPMRDTRK	16A	0			
SPMREPLY	204	0			
SPMSG	18C	0			
SPMTOKEN	182	40404040			
SPMWTRK	164	0			





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## **\$SPNWORK Information**

### **\$SPNWORK Programming Interface information**

\_\_\_\_\_ Programming Interface information \_\_\_\_\_

**\$SPNWORK**

\_\_\_\_\_ End of Programming Interface information \_\_\_\_\_

## Heading Information • \$SPNWORK Map

### \$SPNWORK Heading Information

**Common Name:** Spin Work Area  
**Macro ID:** \$SPNWORK  
**DSECT Name:** PCE (\$SPNWORK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4  
**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE  
**Size:** See symbol SPNWKSIZE for the length of this work area. The overall length of the PCE is stored in field PCELENG.  
**Created by:** See \$PCE  
**Pointed to by:** The \$SPINPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first spin PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See \$PCE for other pointer fields that apply to all PCE types.  
**Serialization:** Normal PCE dispatch serialization  
**Function:** The fields in this work area are used by a JES2 spin processor. \$SPNWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$SPNWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESPND in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

### \$SPNWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP Spin Processor
-----					
Comment					
-----					
SPIN processors no longer contain an id number in their PCE work areas (field SPNPCEID has been marked 'reserved'.) Instead, all PCEs now have a sequence number in the base section (field PCESQ.)					
-----					
End of Comment					
312	(138)	SIGNED .... ...1	2	SPNPCEOD	Reserved for future use "B'00000001" Odd numbered spin PCE
314	(13A)	BITSTRING 1... .... .1.. .... ..1. ....	1	SPNFLAG1 SPN1DIS SPN1QSUS SPN1JBLK	Spin flag byte 1 "B'10000000" PCE is disabled "B'01000000" PCE needs the queues "B'00100000" PCE needs the job lock
315	(13B)	BITSTRING	1		Reserved for future use
316	(13C)	SIGNED	4	SPNIOTBF	Address of IOT buffer chain
320	(140)	SIGNED	4	SPNTEMP	Temporary storage
324	(144)	ADDRESS	4	SPNJOAA	Address of buffer containing prototype JOA

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
328	(148)	SIGNED	4	SPNJOAL	Length of buffer containing prototype JOA
332	(14C)	SIGNED	4	SPNJCTBF	Address of JCT buffer
336	(150)	BITSTRING	4	SPNJBKEY	JCT Job Identifier Key
340	(154)	SIGNED	4	SPNERA	Address of ERA
344	(158)	DBL WORD	8	SPNABTIM	Time of last abend by PCE
352	(160)	ADDRESS	4	SPNTRCE (0)	Spin PCE trace entry
384	(180)	SIGNED	4	SPNIOTTR	Save area for track address of next IOT in spin chain
388	(184)	SIGNED	4	SPNMOMTR	Save area for mom MOC MTTR
392	(188)	SIGNED	4	SPNMOMRC	Save area for mom's record
396	(18C)	SIGNED	4	SPNMOMPG	Save area for mom's page
400	(190)	SIGNED	4	SPNMOMBT	Save area for mom's byte
404	(194)	BITSTRING	4	SPNONEUN	Single UNSPUN MTTR or zero
408	(198)	ADDRESS	4	SPNOFFJQ	Offset of first JQE for which job lock not avail
412	(19C)	CHARACTER	32	SPNNOTPL	Parm list storage for \$HNOTIFY call from DSAL
444	(1BC)	BITSTRING	1	SPNCTKNO	Old CTOKEN work area
444	(1BC)	X'D4'	0	SPNWKSIZ	**"PCEWORK" Size of Spin PCE work area

**\$SPNWORK Cross Reference**

Name	Hex Offset	Hex Value
PCE	0	
SPNABTIM	158	
SPNCTKNO	1BC	
SPNERA	154	
SPNFLAG1	13A	
SPNIOTBF	13C	
SPNIOTTR	180	
SPNJBKEY	150	
SPNJCTBF	14C	
SPNJOAA	144	
SPNJOAL	148	
SPNMOMBT	190	
SPNMOMPG	18C	
SPNMOMRC	188	
SPNMOMTR	184	
SPNNOTPL	19C	
SPNOFFJQ	198	
SPNONEUN	194	
SPNPCEOD	138	1
SPNTEMP	140	
SPNTRCE	160	
SPNWKSIZ	1BC	D4
SPN1DIS	13A	80
SPN1JBLK	13A	20
SPN1QSUS	13A	40

## \$SPNWORK Cross Reference

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## **\$SPOOLCB Information**

### **\$SPOOLCB Programming Interface information**

\_\_\_\_\_ Programming Interface information \_\_\_\_\_

### **\$SPOOLCB**

\_\_\_\_\_ End of Programming Interface information \_\_\_\_\_

## Heading Information • \$SPOOLCB Cross Reference

### \$SPOOLCB Heading Information

**Common Name:** SPOOL information data CB  
**Macro ID:** \$SPOOLCB  
**DSECT Name:** SPCB  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** SPCB  
 Offset: SPCBID-SPCB  
 Length: L'SPCID  
**Storage Attributes:** Subpool: 0  
 Key: 1  
 Residency: Virtual and real storage are in 31 bit storage in the private storage of the JES2 address space.  
**Size:** See SPCBLEN  
**Created by:** HASPIRMA  
**Pointed to by:** \$SPOOLCB field of the \$HCT data area  
**Serialization:** None required  
**Function:** Maps the constants for SPOOL processing (Set by JES2 initialization statements).

### \$SPOOLCB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SPCB	, SPOOL information control block
0	(0)	CHARACTER	4	SPCBID	Eyecatcher
4	(4)	CHARACTER	44	SPCBDSN	SPOOL data set name
48	(30)	CHARACTER	44	SPCBDSMS	SPOOL data set name mask
92	(5C)	BITSTRING	1	SPCFLAGD	Local testing flag
		1... ....		SPCDABS	"B'10000000" Use absolute addressing
		.1.. ....		SPCDHIGM	"B'01000000" Use high M values
93	(5D)	BITSTRING	3		Reserved
96	(60)	SIGNED	4	SPCCOOLT	Spool Migr cool down timer
100	(64)	SIGNED	4	SPCHEART	Spool Migr heartbeat timer
104	(68)	SIGNED	4	SPCKPTLV	Last SPOOLDEF change level
108	(6C)	SIGNED	2	SPCTGSIZ	Prior (old) TG size value
110	(6E)	BITSTRING	2		Reserved
112	(70)	CHARACTER	44	SPCBODSM	Prior (old) SPOOL DS mask
160	(A0)	DBL WORD	8	(0)	Align length
160	(A0)	X'A0'	0	SPCBLEN	**"SPCB" Length of data area

### \$SPOOLCB Cross Reference

Name	Hex Offset	Hex Value
SPCB	0	
SPCBDSMS	30	
SPCBDSN	4	
SPCBID	0	
SPCBLEN	A0	A0
SPCBODSM	70	
SPCCOOLT	60	
SPCDABS	5C	80
SPCDHIGM	5C	40
SPCFLAGD	5C	
SPCHEART	64	
SPCKPTLV	68	
SPCTGSIZ	6C	

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## **\$SQD Information**

### **\$SQD Programming Interface information**

\_\_\_\_\_ Programming Interface information \_\_\_\_\_

**\$SQD**

\_\_\_\_\_ End of Programming Interface information \_\_\_\_\_

## Heading Information • \$\$SQD Map

### \$\$SQD Heading Information

**Common Name:** Subtask queue descriptor  
**Macro ID:** \$\$SQD  
**DSECT Name:** SQD  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'SQD'  
 Offset: SQDID-SQD  
 Length: 4

**Storage Attributes:** Subpool: Any  
 Key: 1  
 Residency: Virtual and real storage are anywhere (above or below 16M) in JES2 private storage.

**Size:** See SQDLEN  
**Created by:** Caller of \$SUBIT  
**Pointed to by:** The SQD is a parameter of the \$SUBIT macro.  
 The SBWQUEX fields in the SBW data area (\$STWORK macro) points to the chain of pending subtask work requests.  
 The DSUBSQD field in the DTE data area points to the SQD currently being processed.  
 The WAVESQD field in the WAVE data area points to the SQD associated with that WAVE.

**Serialization:** The SQDs are added to the work queues (STWQUEX) using the \$QUEUE macro. See that macro for serialization of queued elements.

**Function:** The subtask queue descriptor contains information to be queued to one of the subtask work queues for a general purpose subtask. It includes the address of the routine to be subtasked and its parameter list.

### \$\$SQD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SQD	
0	(0)	CHARACTER	4	SQDID	Control block ID
4	(4)	ADDRESS	1	SQDLEVEL	Control block version
		.... ..1		SQDVERSN	"X'01" Control block version EQU
5	(5)	BITSTRING	3		RESERVED
8	(8)	BITSTRING	24	SQDXECB	XECB POSTed when work completed
32	(20)	ADDRESS	4	SQDRTNA	Addr of rtn to be subtasked
40	(28)	DBL WORD	8	SQDP0_64 (0)	64 bit parm 0
40	(28)	ADDRESS	4	SQDPAR0H	Parm list R0...bits 0..31
44	(2C)	ADDRESS	4	SQDPARM0	Parm list R0...bits 32..63
48	(30)	DBL WORD	8	SQDP1_64 (0)	64 bit parm 1
48	(30)	ADDRESS	4	SQDPAR1H	Parm list R1...bits 0..31
52	(34)	ADDRESS	4	SQDPARM1	Parm list R1...bits 32..63
56	(38)	SIGNED	4	SQDPAR0A	Parm access register 0
60	(3C)	SIGNED	4	SQDPAR1A	Parm access register 1
64	(40)	DBL WORD	8	SQDRC_64 (0)	64 bit returned R15
64	(40)	SIGNED	4	SQDRTNH	Routine return R15...0..31
68	(44)	SIGNED	4	SQDRRTN	Routine return code (R15)
72	(48)	DBL WORD	8	SQDR0_64 (0)	64 bit routine return R0
72	(48)	SIGNED	4	SQDRR0H	Routine return R0... 0..31
76	(4C)	SIGNED	4	SQDRR0	Routine return R0...32..63
80	(50)	DBL WORD	8	SQDR1_64 (0)	64 bit routine return R1
80	(50)	SIGNED	4	SQDRR1H	Routine return R1... 0..31
84	(54)	SIGNED	4	SQDRR1	Routine return R1...32..63



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
88	(58)	SIGNED	4	SQDRR0A	Routine return AR0
92	(5C)	SIGNED	4	SQDRR1A	Routine return AR1
96	(60)	SIGNED	4	SQDRETC	Subtask return code
100	(64)	BITSTRING	1	SQDFLAG1	Flag byte 1
		1... ....		SQD1UNCN	"B'10000000" Unconditional routine call
		.1.. ....		SQD1HCT	"B'01000000" HCT in R11
		..1. ....		SQD1HCCT	"B'00100000" HCCT in R11
		...1 ....		SQD1NOST	"B'00010000" Routine called w/o subtask
		.... 1...		SQD1WAIT	"B'00001000" WAIT=YES was specified
		.... .1..		SQD1FREE	"B'00000100" FREESQD=YES specified
		.... ..1.		SQD1ECB@	"B'00000010" SQDXECB points to ECB (user environment only)
		.... ...1		SQD1ACT	"B'00000001" SQD is active in subtask
101	(65)	BITSTRING	1	SQDFLAG2	Flag byte 2
		1... ....		SQD2P0HI	"B'10000000" Hi order half (bits 0..31) of R0 was saved in SQDPAR0H and should be passed to the routine.
		.1.. ....		SQD2P1HI	"B'01000000" Hi order half (bits 0..31) of R1 was saved in SQDPAR1H and should be passed to the routine.
102	(66)	BITSTRING	1	SQDPRI0	Priority of request (1 is high, 2 is regular, 3 is low)
103	(67)	BITSTRING	2		Reserved for future use
108	(6C)	ADDRESS	4	SQDNSST	NSST address (USER environ)
112	(70)	ADDRESS	4		Reserved

Comment

-----  
 Various times, valid when request complete. All times in micro seconds.  
 -----

End of Comment

120	(78)		16	SQDQTIME	Time spent queued
136	(88)		16	SQDRTIME	Wall clock run time
152	(98)	DBL WORD	8	SQDCTIME	CPU time for request

Comment

MACDATE = 04/03/89

End of Comment

120	(78)	SIGNED	4	SQDTCBTK (0)	
120	(78)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
120	(78)	BITSTRING	8		
128	(80)	SIGNED	4		
132	(84)	ADDRESS	4		
136	(88)	ADDRESS	4		ASCB ADDRESS (INPUT)
140	(8C)	SIGNED	4	(0)	FLAGS (INPUT)
140	(8C)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
141	(8D)	SIGNED	3		RESERVED
160	(A0)	ADDRESS	4	SQDGPQ	Address of GPQE, if any

Comment

Subtask VRA and recovery information.

End of Comment

164	(A4)	ADDRESS	4	SQDCLRA	\$SUBIT caller address
168	(A8)	CHARACTER	8	SQDRNAME	Routine name
176	(B0)	CHARACTER	8	SQDJOBID	JOBID associated with req.
184	(B8)	CHARACTER	8	SQDJOBNM	JOBNAME associated with req
192	(C0)	BITSTRING	3	SQDDEVID	Device id assoc with req
195	(C3)	BITSTRING	1		Reserved
196	(C4)	ADDRESS	4	SQDJQE	PCEJQE value at \$SUBIT
200	(C8)	SIGNED	2	SQDASID	Related ASID
202	(CA)	BITSTRING	6		Reserved

## \$SQD Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
208	(D0)	DBL WORD	8	SQDEND (0)	End SQD on a double word
208	(D0)	X'D0'	0	SQDLEN	"SQDEND-SQD" Length of SQD

## \$SQD Cross Reference

Name	Hex Offset	Hex Value
SQD	0	
SQDASID	C8	
SQDCLRA	A4	
SQDCTIME	98	
SQDDEVID	C0	
SQDEND	D0	
SQDFLAG1	64	
SQDFLAG2	65	
SQDGPQ	A0	
SQDID	0	E2D8C440
SQDJOBID	B0	
SQDJOBNM	B8	
SQDJQE	C4	
SQDLEN	D0	D0
SQDLEVEL	4	
SQDNSST	6C	
SQDPARM0	2C	
SQDPARM1	34	
SQDPAR0A	38	
SQDPAR0H	28	
SQDPAR1A	3C	
SQDPAR1H	30	
SQDPRIO	66	
SQDP0_64	28	
SQDP1_64	30	
SQDQTIME	78	
SQDRC_64	40	
SQDRETCD	60	
SQDRNAME	A8	
SQDRRTN	44	
SQDRR0	4C	
SQDRR0A	58	
SQDRR0H	48	
SQDRR1	54	
SQDRR1A	5C	
SQDRR1H	50	
SQDRTIME	88	
SQDRTNA	20	
SQDRTNH	40	
SQDR0_64	48	
SQDR1_64	50	
SQDTCBTK	78	
SQDVERSN	4	1
SQDXECB	8	
SQD1ACT	64	1
SQD1ECB@	64	2
SQD1FREE	64	4
SQD1HCCT	64	20
SQD1HCT	64	40
SQD1NOST	64	10
SQD1UNCN	64	80
SQD1WAIT	64	8
SQD2P0HI	65	80
SQD2P1HI	65	40

---

## **\$SRW Information**

### **\$SRW Programming Interface information**

\_\_\_\_\_ Programming Interface information \_\_\_\_\_

**\$SRW**

\_\_\_\_\_ End of Programming Interface information \_\_\_\_\_

## Heading Information • \$SRW Map

### \$SRW Heading Information

**Common Name:** JES2 SYSOUT Receiver Work Area  
**Macro ID:** \$SRW  
**DSECT Name:** SRW  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** none  
**Storage Attributes:** Subpool: See \$PCE (JES2 address space) 0 (NETSRV address space)  
 Key: See \$PCE (JES2 address space) 0 (NETSRV address space)  
 Residency: See \$PCE (JES2 address space) Virtual and real storage are anywhere (above or below 16M) in private storage (NETSRV address space)  
**Size:** See SRWLEN  
**Created by:** See \$PCE (JES2 address space)  
 Subtask initialization exit (NETSRV address space)  
**Pointed to by:** NSSTSRWA field of the \$NSST data area  
 X047AREA field of the \$XPL data area  
 X057AREA field of the \$XPL data area  
 Imbedded in the PCE in the JES2 address space.  
 See \$PCE for other pointer fields that apply to all PCE types.  
**Serialization:** Normal PCE dispatch serialization  
**Function:** The fields in this work area are used by a JES2 SYSOUT Receiver Processor and by its support routines and exits. \$SRW maps the fields that are used by common service routines in both the JES2 address space and the NETSRV address spaces.

### \$SRW Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SRW	, SRW mapped as \$NJEWORK
0	(0)	CHARACTER	4	SRWEYE	Eyecatcher
4	(4)	CHARACTER	10	SRWDEVN	Device name
14	(E)	BITSTRING	1	SRWDEVTP	Device type
15	(F)	BITSTRING	3	SRWDEVID	Device id
18	(12)	BITSTRING	2	SRWCRSV1	Reserved
20	(14)	ADDRESS	4	SRWWAVE	WAVE address
24	(18)	ADDRESS	4	SRWSQD	SQD address
28	(1C)	ADDRESS	4	SRWPAREA	Address of PCL area for this subdevice
32	(20)	ADDRESS	4	SRWAREA	Address of TSCT area for this subdevice (NETSRV address space only)
36	(24)	ADDRESS	4	SRWNSST	Address of NSST (NETSRV address space only)
40	(28)	ADDRESS	4	SRWTBUF	Address of associated TBUF
44	(2C)	ADDRESS	4	SRWTAREA	Address of rolling trace area (NETSRV addrspc only)
48	(30)	SIGNED	4	SRWECBCC	Contents of POSTed ECB
52	(34)	ADDRESS	4	SRWNITAD	Address of adjacent NIT
56	(38)	ADDRESS	4	SRWNITAL	ALET of adjacent NIT
60	(3C)	ADDRESS	4	SRWNITBL	Address of NIT table

Comment

THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER

End of Comment

64	(40)	SIGNED	4	SRWXTIME	Time offload DS allocated
68	(44)	SIGNED	4	SRWXDATE	Date offload DS allocated
72	(48)	SIGNED	4	SRWCLRST (0)	Start of area to clear
72	(48)	ADDRESS	4	SRWJQA	Address of JQA
72	(48)	X'48'	0	SRWJQE	"SRWJQA" Address of JQE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
76	(4C)	ADDRESS	4	SRWJCT	Address of JCT
80	(50)	ADDRESS	4	SRWIOT	Address of IOT
80	(50)	X'50'	0	SRWIOTBF	"SRWIOT" Address of IOT
84	(54)	ADDRESS	4	SRWNJH	Network job header address
88	(58)	ADDRESS	4	SRWNJT	Network job trailer address
92	(5C)	SIGNED	4	SRWRCOUN	Number of records sent/received
96	(60)	ADDRESS	4	SRWCUREC	Current record count, not including header/trailer records
100	(64)	CHARACTER	8	SRWJOBID	Job id of active job
108	(6C)	BITSTRING	1	SRWNERRC	Error code
108	(6C)	X'1'	0	SRWNEJOB	"1" JQE/JOE Mismatch
108	(6C)	X'2'	0	SRWNEJOE	"2" Invalid mix of spin/nonspin
108	(6C)	X'3'	0	SRWNEJOB	"3" Subtask failure
108	(6C)	X'4'	0	SRWNEOPE	"4" OPEN failure
108	(6C)	X'5'	0	SRWNECLO	"5" CLOSE failure
108	(6C)	X'6'	0	SRWNEIOE	"6" I/O error
108	(6C)	X'7'	0	SRWNECBI	"7" CBIO failure
108	(6C)	X'8'	0	SRWNEJH	"8" NJE Header/Trailer build
108	(6C)	X'9'	0	SRWNESEQ	"9" Record sequencing error
108	(6C)	X'A'	0	SRWNEGG	"10" Grouping error
108	(6C)	X'B'	0	SRWNEJF	"11" SJF error
108	(6C)	X'C'	0	SRWNEAF	"12" SAF check failure
109	(6D)	BITSTRING	7	SRWCERSV2	Reserved
120	(78)	DBL WORD	8	SRWDBL	Doubleword work area
128	(80)	DBL WORD	8	SRWDBLE	Doubleword work area 2
136	(88)	DBL WORD	8	SRWDBLE1	Doubleword work area 3
136	(88)	X'80'	0	SRWWRK16	"SRWDBLE,16,C'X'" 16-byte work area
136	(88)	X'78'	0	SRWWRK24	"SRWDBL,24,C'X'" 24-byte work area
144	(90)	ADDRESS	4	SRWNDH	Network dataset header address
148	(94)	SIGNED	8	SRWKEY (0)	JOB AND DATA SET KEYS
148	(94)	SIGNED	4	SRWJBKEY	JOB KEY
152	(98)	SIGNED	4	SRWDSKEY	DATA SET KEY
156	(9C)	ADDRESS	4	SRWPddb	Pddb address
160	(A0)	SIGNED	4	SRWHDRCT	Number of ds headers in current multi-dest ds
164	(A4)	BITSTRING	4	SRWCERSV3	Reserved
168	(A8)	DBL WORD	8	(0)	Force alignment
168	(A8)	X'48'	0	SRWCLEAR	"SRWCLRST,*-SRWCLRST,C'X'" Area to clear

Comment

NJE RECORD TYPE FLAGS

End of Comment

168	(A8)	BITSTRING	1	SRW\$EXP	'EXPECTED' TYPES (FLAGS)
169	(A9)	BITSTRING	1	SRW\$LST	'LAST RECEIVED' TYPE (FLAG)
		1... ....		SRW\$JH	"B'10000000" JOB HEADER
		.1.. ....		SRW\$JT	"B'01000000" JOB TRAILER
		..1. ....		SRW\$DSH	"B'00100000" DATA SET HEADER
		...1 ....		SRW\$DST	"B'00010000" DATA SET TRAILER (NOT USED)
		.... 1..		SRW\$DATA	"B'00001000" DATA RECORD
		.... .1..		SRW\$EOF	"B'00000100" NORMAL END-OF-FILE
		.... ..1.		SRW\$JES2	"B'00000010" JES2 SECTION RECEIVED
		.... ...1		SRW\$SPOF	"B'00000001" OFFLOAD SECTION RECEIVED
170	(AA)	BITSTRING	1	SRWFLAG2	CONTROL FLAGS
		1... ....		SRW\$BLNK	"B'10000000" DON'T TRUNC BLANKS
		.1.. ....		SRW\$PAGE	"B'01000000" RECEIVED DS IS PAGE RECORD
		.1.. ....		SRW2NBUF	"B'01000000" NEW SCR BUFFER NEEDED
		..1. ....		SRW2MDES	"B'00100000" JOB HAS MULTIPLE DESTS
		...1 ....		SRW2UNSP	"B'00010000" UNSPUN IOT'S EXIST
		.... 1..		SRW2STKN	"B'00001000" Submitter job token found
		.... .1..		SRW2TSCR	"B'00000100" Token SCR in buffer
		.... ..1.		SRW2TREC	"B'00000010" Token recv for current DS
		.... ...1		SRW2GGIN	"B'00000001" Grouping strings object is initialized
172	(AC)	ADDRESS	4	SRWDSBUF	Current data buffer address
176	(B0)	SIGNED	4	SRWJBNUM	Work area for job number

# \$SRW Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
180	(B4)	SIGNED	4	SRWTTR	MOST RECENTLY ACQUIRED TTR
184	(B8)	SIGNED	4	SRWMDKEY	DATASET KEY FOR MULTIDEST PDDB
188	(BC)	SIGNED	2	SRWSYSKY	PREVIOUSLY RECEIVED SYSTEM KEY
192	(C0)	SIGNED	4	SRWMXKEY	DATA SET KEYS OVER 32,767
196	(C4)	SIGNED	4	SRWLASKY	LAST DATA SET KEY PROCESSED
200	(C8)	BITSTRING	1	SRWERROR	ERROR FLAGS (AND OTHER SRW FLAGS)
		1... ....		SRW\$CAN	"B'10000000" CANCEL JOB (TELL XMITTER)
		.1. ....		SRW\$SKIP	"B'01000000" CANCEL JOB (DON'T TELL XMITTER)
		..1. ....		SRW\$DSU	"B'00100000" THIS NODE IS ULTIMATE DEST FOR THIS DATA SET
		...1 ....		SRW\$DPRG	"B'00010000" One or more data sets in job not received
		.... 1..		SRW\$DIST	"B'00001000" Severe error in selection
		.... .1..		SRW\$NOJB	"B'00000100" No data received thru EOF
		.... ..1.		SRW\$HOPX	"B'00000010" Job's hop count exceeded
201	(C9)	BITSTRING	1	SRW\$RCV	'RECEIVED' TYPE (FLAG)
202	(CA)	SIGNED	2	SRWMDINS	Multi-dest instance count
204	(CC)	ADDRESS	4	(2)	Reserved for future use
212	(D4)	BITSTRING	1	SRWFLAG1	CONTROL FLAGS
		1... ....		SRW\$ULT	"B'10000000" THIS NODE IS ULTIMATE DEST OF AT LEAST ONE DATA SET
		.1.. ....		SRW\$TCEL	"B'01000000" RECEIVED DS IS TRACK-CELLED
		..1. ....		SRW\$DS	"B'00100000" DATA RECORD HAS BEEN RECEIVED
		...1 ....		SRW\$JTRC	"B'00010000" JOB TRAILER HAS BEEN RECEIVED
		.... 1..		SRW\$DRN	"B'00001000" DRAIN SPOF RECEIVER AFTER JOB
		.... .1..		SRW\$SIGN	"B'00000100" \$GETSMFB and sign-on msg issued, at least one DSH received for this job
		.... ..1.		SRW\$DRFD	"B'00000010" Data record received since last header processed
		.... ...1		SRW\$SKDR	"B'00000001" On - at least one DSH accepted in this hdr sequence Off - skipping data records
213	(D5)	BITSTRING	1	SRWFLAG3	GENERAL USE FLAG BYTE
		1... ....		SRW3BFER	"B'10000000" LARGE SMF BUFFER TOO SMALL TO HOLD SWBTU
		.1.. ....		SRW3JDVT	"B'01000000" Job's JDVT name is set
		..1. ....		SRW3OAFF	"B'00100000" Affinity section of header processed
		...1 ....		SRW3LTOK	"B'00010000" Get local token
		.... 1..		SRW3BLKP	"B'00001000" Blank padding for mid seg
214	(D6)	ADDRESS	1	SRWLINCT	MAXIMUM LINES PER PAGE
214	(D6)	X'D7'	0	SRWCINIL	**SRW" LENGTH FOR INITIAL CLEAR

Comment

-----  
 PDDB work area below has a standard JES2 prefix  
 (see \$CSBPRFX in \$HASPEQU).  
 SRWTPDDB points to a start of PDDB in a work area.  
 -----

End of Comment

216	(D8)	ADDRESS	4	SRWTPDDB	Work area for PDDB
220	(DC)	SIGNED	4	SRWTPDBM	Max size of PDDB which will fit in SRWTPDDB
224	(E0)	CHARACTER	72	SRWWRKA	WORK AREA FOR \$WTO
224	(E0)	BITSTRING	3		SCR header length
227	(E3)	BITSTRING	81		Token length
308	(134)	SIGNED	4	(0)	Align

Comment

-----  
 Fields SRWNSWB through SRWSSBTL are used in handling  
 the SWBIT buffer(s) containing any SWBTUs from the DSH  
 data stream section.  
 -----

End of Comment

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
308	(134)	SIGNED	2	SRWNSWB	Number of SWBTU's for PDDB
310	(136)	SIGNED	2	SRWSWBL	Total size of SWBTU's for PDDB
312	(138)	SIGNED	4	SRWSEGID	Segment ID from PDDB
316	(13C)	ADDRESS	4	SRWSWBTU	Address of SWBTU in data set header
320	(140)	ADDRESS	4	SRWHSWBF	SWBIT buffer chain
324	(144)	ADDRESS	4	SRWSWPTL	Address of SWBTU pointer list used by SJF SWBTU services
328	(148)	ADDRESS	4	SRWIPSWB	Addr of IPADDR work area
332	(14C)	SIGNED	2	SRWIPSWL	Length of IPADDR work area
334	(14E)	SIGNED	2		Reserved
336	(150)	SIGNED	4	(0)	Alignment
336	(150)	CHARACTER	8	SRWSSBTL	Default SWBTU pointer list used when only one SWBTU exists
344	(158)	BITSTRING	1	SRWTUXP	TU extract parameters

Comment

The following fields point to the various tokens associated with a job/data set being received.

End of Comment

364	(16C)	ADDRESS	4	SRWJTKNA	Job header token address
368	(170)	ADDRESS	4	SRWIJTKN	Internal format Job token
372	(174)	ADDRESS	4	SRWTKNA	External format token which was last processed
376	(178)	ADDRESS	4	SRWITKN	Internal version of SRWTKNA
380	(17C)	ADDRESS	4	SRWIVTKB	Token returned by VERIFYX using SRWTKNA (output destined local)
384	(180)	ADDRESS	4	SRWISFTK	Store and forward token for current job
388	(184)	ADDRESS	4	SRWTWA	Token work area address
392	(188)	BITSTRING	1	SRWFLAGT	Token flags
		1... ....		SRWTVXPS	"B'10000000" VERIFYX RC for SRWIVTKN On-> RC=0/4 off-> RC=8
		.1.. ....		SRWTSFPS	"B'01000000" VERIFYX RC for SRWISFTK On-> RC=0/4 off-> RC=8
393	(189)	BITSTRING	3		Reserved for future use
396	(18C)	ADDRESS	4	SRWB32KH	Addr of temp NJH 32K cell
400	(190)	CHARACTER	1	SRWSAFI	\$SAFINF0 parameter list
400	(190)	X'228'	0	SRWLEN	**_SRW"

Comment

The following fields exist only in the SRW in the NETSRV address space

End of Comment

552	(228)	ADDRESS	4	SRWACB	ACB address
556	(22C)	ADDRESS	4	SRWRPL	RPL address
560	(230)	ADDRESS	4	SRWSJB	SJB address
564	(234)	ADDRESS	4	SRWSDB	SDB address
568	(238)	ADDRESS	4	SRWIPDDB	First PDDB for this DS
572	(23C)	ADDRESS	4	SRWIOT	First IOT for this DS
576	(240)	ADDRESS	4	SRWCUIOT	IOT for current PDDB
580	(244)	BITSTRING	1	SRWNFLG1	Progress flags
		1... ....		SRWN1JHI	"B'10000000" Job header in progress
		.1.. ....		SRWN1JHC	"B'01000000" Job header complete
		..1. ....		SRWN1DHI	"B'00100000" DS header in progress
		...1 ....		SRWN1DHC	"B'00010000" DS header complete
		.... 1..		SRWN1JTI	"B'00001000" Job trailer in progress
		.... .1..		SRWN1JTC	"B'00000100" Job trailer complete
		.... ..1.		SRWN1PTI	"B'00000010" PUT of data in progress
		.... ...1		SRWN1ERR	"B'00000001" Error detected
581	(245)	BITSTRING	1	SRWNFLG2	Progress flags
		1... ....		SRWN2CLI	"B'10000000" Fake CLOSE (null PUT) in progress
		.1.. ....		SRWN2EOT	"B'01000000" EOT received
		..1. ....		SRWN2EOC	"B'00100000" EOT processing complete
582	(246)	BITSTRING	2		Reserved

## \$SRW Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
584	(248)	ADDRESS	4	SRWRJQE	Real JQE address in live
588	(24C)	SIGNED	4	SRWRJQEA	version and ALET
592	(250)	SIGNED	4	(4)	Reserved
608	(260)	DBL WORD	8	(0)	Align
608	(260)	X'260'	0	SRWCLEN	"*-SRW" Length of SRW in NETSRV address space

## \$SRW Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SRW	0		SRWFLAG2	AA	
SRW\$BLNK	AA	80	SRWFLAG3	D5	
SRW\$CAN	C8	80	SRWHDRCT	A0	
SRW\$DATA	A9	8	SRWHSWBF	140	
SRW\$DIST	C8	8	SRWIIOT	23C	
SRW\$DPRG	C8	10	SRWIJTKN	170	
SRW\$DRFD	D4	2	SRWIOT	50	
SRW\$DRN	D4	8	SRWIOTBF	50	50
SRW\$DS	D4	20	SRWIPDDB	238	
SRW\$DSH	A9	20	SRWIPSWB	148	
SRW\$DST	A9	10	SRWIPSWL	14C	
SRW\$DSU	C8	20	SRWISFTK	180	
SRW\$EOF	A9	4	SRWITKN	178	
SRW\$EXP	A8		SRWIVTKB	17C	
SRW\$HOPX	C8	2	SRWJBKEY	94	
SRW\$JES2	A9	2	SRWJBNUM	B0	
SRW\$JH	A9	80	SRWJCT	4C	
SRW\$JT	A9	40	SRWJOBID	64	
SRW\$JTRC	D4	10	SRWJQA	48	
SRW\$LST	A9		SRWJQE	48	48
SRW\$NOJB	C8	4	SRWJTKNA	16C	
SRW\$PAGE	AA	40	SRWKEY	94	
SRW\$RCV	C9		SRWLASKY	C4	
SRW\$SIGN	D4	4	SRWLEN	190	228
SRW\$SKDR	D4	1	SRWLINCT	D6	
SRW\$SKIP	C8	40	SRWMDINS	CA	
SRW\$SPOF	A9	1	SRWMDKEY	B8	
SRW\$TCEL	D4	40	SRWMXKEY	C0	
SRW\$ULT	D4	80	SRWNDH	90	
SRWACB	228		SRWNECBI	6C	7
SRWAREA	20		SRWNECLO	6C	5
SRWB32KH	18C		SRWNEGG	6C	A
SRWCINIL	D6	D7	SRWNEIOE	6C	6
SRWCLEAR	A8	48	SRWNEJOB	6C	1
SRWCLEN	260	260	SRWNEJOE	6C	2
SRWCLRST	48		SRWNEJH	6C	8
SRWCRSV1	12		SRWNEOPE	6C	4
SRWCRSV2	6D		SRWNERRC	6C	
SRWCRSV3	A4		SRWNESEAF	6C	C
SRWCUIOT	240		SRWNESEQ	6C	9
SRWCUREC	60		SRWNEJF	6C	B
SRWDBL	78		SRWNESUB	6C	3
SRWDBLE	80		SRWNFLG1	244	
SRWDBLE1	88		SRWNFLG2	245	
SRWDEVID	F		SRWNITAD	34	
SRWDEVN	4		SRWNITAL	38	
SRWDEVTP	E		SRWNITBL	3C	
SRWDSBUF	AC		SRWNJH	54	
SRWDSKEY	98		SRWNJT	58	
SRWECBCC	30		SRWNSST	24	
SRWERROR	C8		SRWNSWB	134	
SRWEYE	0	E2D9E640	SRWN1DHC	244	10
SRWFLAGT	188		SRWN1DHI	244	20
SRWFLAG1	D4		SRWN1ERR	244	1



Name	Hex Offset	Hex Value
SRWN1JHC	244	40
SRWN1JHI	244	80
SRWN1JTC	244	4
SRWN1JTI	244	8
SRWN1PTI	244	2
SRWN2CLI	245	80
SRWN2EOC	245	20
SRWN2EOT	245	40
SRWPAREA	1C	
SRWPDDDB	9C	
SRWRCOUN	5C	
SRWRJQE	248	
SRWRJQEA	24C	
SRWRPL	22C	
SRWSAFI	190	
SRWSDB	234	
SRWSEGID	138	
SRWSJB	230	
SRWSQD	18	
SRWSSBTL	150	
SRWSWBL	136	
SRWSWBTU	13C	
SRWSWPTL	144	
SRWSYSKY	BC	
SRWTAREA	2C	
SRWTBUF	28	
SRWTKNA	174	
SRWTPDBM	DC	
SRWTPDDB	D8	
SRWTSFPS	188	40
SRWTTR	B4	
SRWTUXP	158	
SRWTVXPS	188	80
SRWTWA	184	
SRWWAVE	14	
SRWWRKA	E0	
SRWWRK16	88	80
SRWWRK24	88	78
SRWXDATE	44	
SRWXTIME	40	
SRW2GGIN	AA	1
SRW2MDES	AA	20
SRW2NBUF	AA	40
SRW2STKN	AA	8
SRW2TREC	AA	2
SRW2TSCR	AA	4
SRW2UNSP	AA	10
SRW3BFER	D5	80
SRW3BLKP	D5	8
SRW3JDVT	D5	40
SRW3LTOK	D5	10
SRW3OAFF	D5	20

## \$SRW Cross Reference

## \$STAC Information

### \$STAC Heading Information

**Common Name:** STAC  
**Macro ID:** \$STAC  
**DSECT Name:** STAC  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** STAC  
 Offset: SACEYE  
 Length: L'SACEYE  
**Storage Attributes:** Subpool: n/a  
 Key: 1  
 Residency: In the jesxSTAC data space in cpool STAC  
**Size:** See SACLEN  
**Created by:** HASCSISC  
**Pointed to by:** SACNEXT field of the \$STAC data area  
 SACPREV field of the \$STAC data area  
 SJBSTAC field of the \$SJB data area  
 CCTCSHED field of the \$HCCT data area  
 CCTCSTAI field of the \$HCCT data area  
**Serialization:** Double Compare and Swap (via PLO)  
**Function:** The STAC is used by STATUS/CANCEL support. It contains all information needed to perform the STATUS or CANCEL SSI function in the JES2 address space.

### \$STAC Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	STAC	,
0	(0)	CHARACTER	4	SACEYE	Eye catcher
Comment					
<p>Chaining is double threaded. The pointer fields are positive (hi-bit off) if pointing to a STAC element. The pointer fields have the high bit on if pointing to the head.</p> <p>The next and prev pointer words must be this order</p>					
End of Comment					
4	(4)	ADDRESS	4	SACNEXT	<----+ Address of next STAC
8	(8)	ADDRESS	4	SACPREV	<----+ Address of previous STAC
12	(C)	ADDRESS	4	SACSJB	Address of SJB (zero means SJB user no longer wants a response)
16	(10)	ADDRESS	4	SACTAREA	Address of work area
20	(14)	CHARACTER	8	SACTJOBN	Job name
28	(1C)	SIGNED	4	SACTJOBI	Job number
32	(20)	SIGNED	2	SACTDIMP	Size of extension
34	(22)	SIGNED	2	SACTDIMR	Size used or required
36	(24)	SIGNED	2	SACTFUNC	Requested function
38	(26)	SIGNED	2	SACTRETB	SSOBRETN return code
40	(28)	SIGNED	2	SACTRETR	R15 return code
42	(2A)	BITSTRING	1	SACTFLGS	Flags from SSOB extension
43	(2B)	SIGNED	1	SACTULEN	User ID length
44	(2C)	BITSTRING	1	SACTFLOW	JES2 in process indicator
45	(2D)	BITSTRING	1	SACFLAG1	Flags (serialized via CS)
		1... ....		SAC1XPST	"B'10000000" Action is complete Data in STAC can be used

## \$STAC Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...1. ....		SAC1PCE	"B'00100000" In process (SACPCE valid)
		...1 ....		SAC1QUED	"B'00010000" On FIFO queue
46	(2E)	BITSTRING	16	SACTCBT	TCB Token of requestor
62	(3E)	BITSTRING	2		Reserved for future use
64	(40)	CHARACTER	80	SACTOKEN	Security token work area
144	(90)	ADDRESS	4	SACPCE	Address of PCE processing the STAC request
Comment					
MACDATE = 04/03/89					
End of Comment					
148	(94)	SIGNED	4	SACTTOK (0)	
148	(94)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
148	(94)	BITSTRING	8		
156	(9C)	SIGNED	4		
160	(A0)	ADDRESS	4		
164	(A4)	ADDRESS	4		ASCB ADDRESS (INPUT)
168	(A8)	SIGNED	4	(0)	FLAGS (INPUT)
168	(A8)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
169	(A9)	SIGNED	3		RESERVED
169	(A9)	X'AC'	0	SACLEN1	**"-STAC" IPCS STAC length
4096	(1000)	BITSTRING	1	SACFAREA	Maximum caller area
4096	(1000)	X'10FF'	0	SACLEN	**"-STAC" STAC Length

## \$STAC Cross Reference

Name	Hex Offset	Hex Value
SACEYE	0	
SACFAREA	1000	
SACFLAG1	2D	
SACLEN	1000	10FF
SACLEN1	A9	AC
SACNEXT	4	
SACPCE	90	
SACPREV	8	
SACSJB	C	
SACTAREA	10	
SACTCBT	2E	
SACTDIMP	20	
SACTDIMR	22	
SACTFLGS	2A	
SACTFLOW	2C	
SACTFUNC	24	
SACTJOBI	1C	
SACTJOBN	14	
SACTOKEN	40	
SACTRETB	26	
SACTRETR	28	
SACTTOK	94	
SACTULEN	2B	
SAC1PCE	2D	20
SAC1QUED	2D	10
SAC1XPST	2D	80
STAC	0	

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## **\$STCWORK Information**

### **\$STCWORK Programming Interface information**

\_\_\_\_\_ Programming Interface information \_\_\_\_\_

**\$STCWORK**

\_\_\_\_\_ End of Programming Interface information \_\_\_\_\_

## Heading Information • \$STCWORK Map

### \$STCWORK Heading Information

**Common Name:** JES2 Status/Cancel PCE Work Area  
**Macro ID:** \$STCWORK  
**DSECT Name:** PCE (\$STCWORK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4  
**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE  
**Size:** See symbol SCNPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.  
**Created by:** See \$PCE  
**Pointed to by:** The \$STACPCE field of the \$HCT data area  
 The \$SACPCE field of the \$STAC data area  
 See \$PCE for other pointer fields that apply to all PCE types.  
**Serialization:** Normal PCE dispatch serialization  
**Function:** The fields in this work area are used by the JES2 Status/Cancel Processor. \$STCWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$STCWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESTCID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

### \$STCWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	JES2 STC processor executive
312	(138)	DBL WORD	8	SCNWORK	Processor work area
320	(140)	BITSTRING	1	SCNFLAG1	STC flags
		1... ....		SCN1SGL	"B'10000000" Exit single request
		.1... ....		SCN1MUL	"B'01000000" Exit multiple request
		..1. ....		SCN1EXCL	"B'00100000" Exit called request
321	(141)	BITSTRING	3		Reserved
324	(144)	CHARACTER	80	SCNTOKEN	Security token work area
404	(194)	BITSTRING	24	SCNXPARM	Exit parm list
428	(1AC)	ADDRESS	4	SCNBUFAD	JCT buffer address
432	(1B0)	DBL WORD	8	(0)	Align STC work area
432	(1B0)	X'78'	0	SCNPCEWL	"*-PCEWORK" STC PCE work area length

**\$STCWORK Cross Reference**

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
PCE	0	
SCNBUFAD	1AC	
SCNFLAG1	140	
SCNPCEWL	1B0	78
SCNTOKEN	144	
SCNWORK	138	
SCNXPARM	194	
SCN1EXCL	140	20
SCN1MUL	140	40
SCN1SGL	140	80

## \$STCWORK Cross Reference



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## **\$STW Information**

### **\$STW Programming Interface information**

\_\_\_\_\_ Programming Interface information \_\_\_\_\_

**\$STW**

\_\_\_\_\_ End of Programming Interface information \_\_\_\_\_

## Heading Information • \$STW Map

### \$STW Heading Information

**Common Name:** JES2 SYSOUT Transmitter Work Area  
**Macro ID:** \$STW  
**DSECT Name:** STW  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** none  
**Storage Attributes:** Subpool: See \$PCE (JES2 address space) 0 (NETSRV address space)  
 Key: See \$PCE (JES2 address space) 0 (NETSRV address space)  
 Residency: See \$PCE (JES2 address space) Virtual and real storage are anywhere (above or below 16M) in private storage (NETSRV address space)  
**Size:** See STWLEN  
**Created by:** See \$PCE (JES2 address space)  
 Subtask initialization exit (NETSRV address space)  
**Pointed to by:** NSSTSTWA field of the \$NSST data area  
 X046AREA field of the \$XPL data area  
 X056AREA field of the \$XPL data area  
 Imbedded in the PCE in the JES2 address space.  
 See \$PCE for other pointer fields that apply to all PCE types.  
**Serialization:** Normal PCE dispatch serialization  
**Function:** The fields in this work area are used by a JES2 SYSOUT Transmitter Processor and by its support routines and exits. \$STW maps the fields that are used by common service routines in both the JES2 address space and the NETSRV address spaces.

### \$STW Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	STW	, STW mapped as \$NJEWORk
0	(0)	CHARACTER	4	STWEYE	Eyecatcher
4	(4)	CHARACTER	10	STWDEVN	Device name
14	(E)	BITSTRING	1	STWDEVTP	Device type
15	(F)	BITSTRING	3	STWDEVID	Device id
18	(12)	BITSTRING	2	STWCRSV1	Reserved
20	(14)	ADDRESS	4	STWWAVE	WAVE address
24	(18)	ADDRESS	4	STWSQD	SQD address
28	(1C)	ADDRESS	4	STWPAREA	Address of PCL area for this subdevice
32	(20)	ADDRESS	4	STWAREA	Address of TSCT area for this subdevice (NETSRV address space only)
36	(24)	ADDRESS	4	STWNSST	Address of NSST (NETSRV address space only)
40	(28)	ADDRESS	4	STWTBUF	Address of associated TBUF
44	(2C)	ADDRESS	4	STWTAREA	Address of rolling trace area (NETSRV addrspc only)
48	(30)	SIGNED	4	STWECBCC	Contents of POSTed ECB
52	(34)	ADDRESS	4	STWNITAD	Address of adjacent NIT
56	(38)	ADDRESS	4	STWNITAL	ALET of adjacent NIT
60	(3C)	ADDRESS	4	STWNITBL	Address of NIT table

Comment

THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER

End of Comment

64	(40)	SIGNED	4	STWXTIME	Time offload DS allocated
68	(44)	SIGNED	4	STWXDATE	Date offload DS allocated
72	(48)	SIGNED	4	STWCLRST (0)	Start of area to clear
72	(48)	ADDRESS	4	STWJQA	Address of JQA
72	(48)	X'48'	0	STWJQE	"STWJQA" Address of JQE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
76	(4C)	ADDRESS	4	STWJCT	Address of JCT
80	(50)	ADDRESS	4	STWIOT	Address of IOT
80	(50)	X'50'	0	STWIOTBF	"STWIOT" Address of IOT
84	(54)	ADDRESS	4	STWNJH	Network job header address
88	(58)	ADDRESS	4	STWNJT	Network job trailer address
92	(5C)	SIGNED	4	STWRCOUN	Number of records sent/received
96	(60)	ADDRESS	4	STWCUREC	Current record count, not including header/trailer records
100	(64)	CHARACTER	8	STWJOBID	Job id of active job
108	(6C)	BITSTRING	1	STWNERRC	Error code
108	(6C)	X'1'	0	STWNEJOB	"1" JQE/JOE Mismatch
108	(6C)	X'2'	0	STWNEJOE	"2" Invalid mix of spin/nonspin
108	(6C)	X'3'	0	STWNESUB	"3" Subtask failure
108	(6C)	X'4'	0	STWNEOPE	"4" OPEN failure
108	(6C)	X'5'	0	STWNECLO	"5" CLOSE failure
108	(6C)	X'6'	0	STWNEIOE	"6" I/O error
108	(6C)	X'7'	0	STWNECBI	"7" CBIO failure
108	(6C)	X'8'	0	STWNENJH	"8" NJE Header/Trailer build
108	(6C)	X'9'	0	STWNESEQ	"9" Record sequencing error
108	(6C)	X'A'	0	STWNEGG	"10" Grouping error
108	(6C)	X'B'	0	STWNEJF	"11" SJF error
108	(6C)	X'C'	0	STWNE SAF	"12" SAF check failure
109	(6D)	BITSTRING	7	STWCRSV2	Reserved
120	(78)	DBL WORD	8	STWDBL	Doubleword work area
128	(80)	DBL WORD	8	STWDBLE	Doubleword work area 2
136	(88)	DBL WORD	8	STWDBLE1	Doubleword work area 3
136	(88)	X'80'	0	STWWRK16	"STWDBLE,16,C'X'" 16-byte work area
136	(88)	X'78'	0	STWWRK24	"STWDBL,24,C'X'" 24-byte work area
144	(90)	ADDRESS	4	STWNDH	Network dataset header address
148	(94)	SIGNED	8	STWKEY (0)	JOB AND DATA SET KEYS
148	(94)	SIGNED	4	STWJBKEY	JOB KEY
152	(98)	SIGNED	4	STWDSKEY	DATA SET KEY
156	(9C)	ADDRESS	4	STWPddb	Pddb address
160	(A0)	SIGNED	4	STWHDRCT	Number of ds headers in current multi-dest ds
164	(A4)	BITSTRING	4	STWCRSV3	Reserved
168	(A8)	DBL WORD	8	(0)	Force alignment
168	(A8)	X'48'	0	STWCLEAR	"STWCLRST,*-STWCLRST,C'X'" Area to clear
168	(A8)	X'A8'	0	STWCINIT	*** Start of area to clear
168	(A8)	SIGNED	4	STWJOEO	Current JOE offset
172	(AC)	SIGNED	4	STWNRECT	JESNEWS line count
176	(B0)	SIGNED	4	STWNPGCT	JESNEWS page count
180	(B4)	ADDRESS	4	STWJOA	JOA address
184	(B8)	SIGNED	4	STWSEGID	Segment ID from Pddb
188	(BC)	ADDRESS	4	STWPddbP	Previous Pddb
192	(C0)	ADDRESS	4	STWSWPTL	Address of SWBTU pointer list used by SJF SWBTU services
196	(C4)	SIGNED	4	STWNETCH	Head of xmitter's JOE chain This is always an offset
200	(C8)	SIGNED	4	STWJOEOF	Offset of JOE
204	(CC)	ADDRESS	4	STWCHARJ	Address of CHAR JOE
208	(D0)	ADDRESS	4	STWENPDB	POINTER PAST END OF Pddb'S IN IOT
212	(D4)	SIGNED	2	STWSWBL	Total size of SWBTUs
214	(D6)	SIGNED	2	STWNSWB	Total number of SWBTUs
216	(D8)	SIGNED	4	STWBKUPP	Backup pointer Joe/Pddb
220	(DC)	SIGNED	2	STWJID2	JOE's output group 2nd id
222	(DE)	BITSTRING	1	STWFDSEr	Flags chking for null ds
		1... ....		STWFNULD	"B'10000000" Null dataset error
		.1.. ....		STWFOFJQ	"B'01000000" Job held by offload
		.... ...1		STWFRFND	"B'00000001" Valid data records in DS
223	(DF)	CHARACTER	9		Reserved
232	(E8)	BITSTRING	1	STWFLAG3	GENERAL USE FLAG BYTE
		1... ....		STW3ES57	"B'10000000" PRODUCE THE ESS SECTION OF THE SMF TYPE 57 RECORD
		.1.. ....		STW3BFER	"B'01000000" LARGE SMF BUFFER TOO SMALL TO HOLD SWBTU
		..1. ....		STW3MERG	"B'00100000" SWBTU merge is required for this data set

# \$STW Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...1 ....		STW3SWRD	"B'00010000" 1 - The JOE SWBIT chain is to be read in 0 - The Pddb SWBIT chain is to be read in
		.... 1...		STW3OPER	"B'00001000" A SWBIT read error occurred
		.... ..1.		STW3ERON	"B'00000010" The JOE SWBIT chain only contains erase lists
		.... ...1		STW3SMAB	"B'00000001" Abend in \$SWBMERG service
233	(E9)	BITSTRING	1	STWFLAGS	INTERNAL FLAGS FOR TRANSMITTER
		1... ....		STW\$NORM	"B'10000000" NORMAL DATA SETS TO TRANSMIT
		.1.. ....		STW\$SPIN	"B'01000000" SPIN DATA SETS TO TRANSMIT
		..1. ....		STW\$IDLE	"B'00100000" 'IDLE' MESSAGE ISSUED
		...1 ....		STW\$MULT	"B'00010000" MULTI-DESTINATION SCAN MODE
		.... ..1.		STW\$AUTH	"B'00000100" Authorization failure
		.... ...1.		STW\$IOT	"B'00000010" IOT SPOOL I/O ERROR
		.... ...1		STW\$INV	"B'00000001" FIRST BLOCK IS INVALID
234	(EA)	BITSTRING	1	STWJQEFL	JQE flag byte
		1... ....		STWJHOPR	"B'10000000" Reset NJE hop count when retransmitting job
235	(EB)	BITSTRING	1	STWWJFLG	Work JOE flags
236	(EC)	CHARACTER	8	STWCRUID	Creator userid for Dataset
244	(F4)	CHARACTER	8	STWUSER	User ID
244	(F4)	X'54'	0	STWCINIL	** -STWCINIL" Length to clear
252	(FC)	ADDRESS	4	STWSTEE	Chain of ENF elements
256	(100)	CHARACTER	260	STWCWORK	Work area
256	(100)	X'204'	0	STWLEN	** -STW" Size of STW

Comment

The following fields exist only in the STW in  
the NETSRV address space

End of Comment

516	(204)	ADDRESS	4	STWACB	ACB address
520	(208)	ADDRESS	4	STWRPL	RPL address
524	(20C)	ADDRESS	4	STWSJB	SJB address
528	(210)	ADDRESS	4	STWSDB	SDB address
532	(214)	ADDRESS	4	STWDSIOT	IOT for dataset to send
536	(218)	ADDRESS	4	STWDSPDB	Pddb for dataset to send
540	(21C)	ADDRESS	4	STWNWIOT	IOT for JESNEWS
544	(220)	ADDRESS	4	STWNWPDB	Pddb for JESNEWS
548	(224)	ADDRESS	4	STWNWTTR	MTRR of JESNEWS IOT
552	(228)	BITSTRING	1	STWNFLG1	Progress flags
		1... ....		STWN1JHI	"B'10000000" NJH creation in progress
		..1. ....		STWN1JHC	"B'01000000" NJH creation complete
		..1. ....		STWN1JHS	"B'00100000" NJH has been sent
		...1 ....		STWN1GTI	"B'00010000" Get is in progress
		... 1...		STWN1JTI	"B'00001000" NJT creation in progress
		.... ..1.		STWN1JTC	"B'00000100" NJT creation complete
		.... ..1.		STWN1JTS	"B'00000010" NJT has been sent
		.... ...1		STWN1ERR	"B'00000001" Error, abort transmission
553	(229)	BITSTRING	1	STWNFLG2	Progress flags
		1... ....		STWN2DHI	"B'10000000" NDH creation in progress
		..1. ....		STWN2DHC	"B'01000000" NDH creation complete
		..1. ....		STWN2DHS	"B'00100000" NDH has been sent
		...1 ....		STWN2OPE	"B'00010000" Dataset open for XMIT
		.... 1...		STWN2CBI	"B'00001000" IOT read started
		.... ..1.		STWN2CBC	"B'00000100" IOT read complete
		.... ..1.		STWN2INC	"B'00000010" Incomplete send
		.... ...1		STWN2EOT	"B'00000001" EOT has been sent
554	(22A)	BITSTRING	1	STWNFLG3	Progress flags
		1... ....		STWN3NWI	"B'10000000" JESNEWS in process
		..1. ....		STWN3NWS	"B'01000000" JESNEWS sent
		..1. ....		STWN3WJ2	"B'00100000" Wait while JES2 down
555	(22B)	BITSTRING	1		Reserved
560	(230)	DBL WORD	8	(0)	
560	(230)	X'230'	0	STWCLEN	** -STW" Length of STW in NETSRV address space

\$STW Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
STW	0		STWNEJOE	6C	2
STW\$AUTH	E9	4	STWNEJH	6C	8
STW\$IDLE	E9	20	STWNEOPE	6C	4
STW\$INV	E9	1	STWNERRC	6C	
STW\$IOT	E9	2	STWNESAF	6C	C
STW\$MULT	E9	10	STWNESEQ	6C	9
STW\$NORM	E9	80	STWNEJF	6C	B
STW\$SPIN	E9	40	STWNE SUB	6C	3
STWACB	204		STWNETCH	C4	
STWAREA	20		STWNFLG1	228	
STWBKUPP	D8		STWNFLG2	229	
STWCHARJ	CC		STWNFLG3	22A	
STWCINIL	F4	54	STWNITAD	34	
STWCINIT	A8	A8	STWNITAL	38	
STWCLEAR	A8	48	STWNITBL	3C	
STWCLEN	230	230	STWNJH	54	
STWCLRST	48		STWNJT	58	
STWCRSV1	12		STWNPGCT	B0	
STWCRSV2	6D		STWNRECT	AC	
STWCRSV3	A4		STWNSST	24	
STWCRUID	EC		STWNSWB	D6	
STWCUREC	60		STWNWIOT	21C	
STWCWORK	100		STWNWPDB	220	
STWDBL	78		STWNWTTR	224	
STWDBLE	80		STWN1ERR	228	1
STWDBLE1	88		STWN1GTI	228	10
STWDEVID	F		STWN1JHC	228	40
STWDEVN	4		STWN1JHI	228	80
STWDEVTP	E		STWN1JHS	228	20
STWDSIOT	214		STWN1JTC	228	4
STWDSKEY	98		STWN1JTI	228	8
STWDS PDB	218		STWN1JTS	228	2
STWECBCC	30		STWN2CBC	229	4
STWENPDB	D0		STWN2CBI	229	8
STWEYE	0	E2E3E640	STWN2DHC	229	40
STWFD SER	DE		STWN2DHI	229	80
STWFLAGS	E9		STWN2DHS	229	20
STWFLAG3	E8		STWN2EOT	229	1
STWFNULD	DE	80	STWN2INC	229	2
STWFOFJQ	DE	40	STWN2OPE	229	10
STWFRFND	DE	1	STWN3NWI	22A	80
STWHDRCT	A0		STWN3NWS	22A	40
STWIOT	50		STWN3WJ2	22A	20
STWIOTBF	50	50	STWPAREA	1C	
STWJBKEY	94		STWPDDB	9C	
STWJCT	4C		STWPDDBP	BC	
STWJHOPR	EA	80	STWRCOUN	5C	
STWJID2	DC		STWRPL	208	
STWJOA	B4		STWSDB	210	
STWJOBID	64		STWSEGID	B8	
STWJOEO	A8		STWSJB	20C	
STWJOEOF	C8		STWSQD	18	
STWJQA	48		STWSTEE	FC	
STWJQE	48	48	STWSWBL	D4	
STWJQEFL	EA		STWSWPTL	C0	
STWKEY	94		STWTAREA	2C	
STWLEN	100	204	STWTBUF	28	
STWNDH	90		STWUSER	F4	
STWNECBI	6C	7	STWWAVE	14	
STWNECLO	6C	5	STWWJFLG	EB	
STWNEGG	6C	A	STWWRK16	88	80
STWNEIOE	6C	6	STWWRK24	88	78
STWNEJOB	6C	1	STWXDATE	44	

## \$STW Cross Reference

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
STWXTIME	40	
STW3BFER	E8	40
STW3ERON	E8	2
STW3ES57	E8	80
STW3MERG	E8	20
STW3OPER	E8	8
STW3SMAB	E8	1
STW3SWRD	E8	10

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## **\$SWBIT Information**

### **\$SWBIT Programming Interface information**

\_\_\_\_\_ Programming Interface information \_\_\_\_\_

**\$SWBIT**

\_\_\_\_\_ End of Programming Interface information \_\_\_\_\_

## Heading Information • \$SWBIT Map

### \$SWBIT Heading Information

**Common Name:** Scheduler Work Block Information Table  
**Macro ID:** \$SWBIT  
**DSECT Name:** SWBIT  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** SWBI  
Offset: SWBITID-SWBIT  
Length: L'SWBITID

**Storage Attributes:** Subpool: 7 for Main Task, 230 for User Environment  
Key: 1  
Residency: The \$SWBIT is a JES2 spool resident control block. Virtual and real storage are anywhere.

**Size:** See SWBISIZ for size of base SWBIT  
See SWBILENG for size of SWB data (SWBTU)  
See SWBELENG for size of TU Erase list

**Created by:** JES2 NJE processing,  
JES2 SWB Modify processing,  
JES2 Subsystem Data Set Open processing,  
SJB Initialization routine SJBINIT in HASCSRJB.

**Pointed to by:** SWBSWB field of the \$SWBIT data area  
SWBSWBTR field of the \$SWBIT data area (addr on spool)  
SWBTRACK field of the \$SWBIT data area (addr on spool)  
JOESWBOT field of the \$JOE data area (addr on spool)  
PDBSWBOT field of the \$PDDB data area (addr on spool)  
SJBSWBUF field of the \$SJB data area  
GCBJSWBT field of the \$GCB data area  
GCBPSWBT field of the \$GCB data area  
Various fields in the processor work areas and parameter lists.

**Serialization:** The creation of the SWBIT during execution is serialized by the SJB Lock. For SWB Modify, the Job Lock is used for serialization. No other serialization is required.

**Function:** This control block contains information for the Scheduler Work Block, including text units (SWBTU's) and Erase Text Unit lists (Erase TU's). The text units contain information from various sources such as the OUTPUT JCL statement and SDSF modification of output descriptors.  
Note that SWBDATOF should always be used to determine the start of the SWB data area. Equates are only used by code that creates the SWBIT structure.

### \$SWBIT Map

Offsets		Type/Value	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	0	SWBIT	HASP SWB INFORMATION TABLE



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
The following fields are defined over the buffer prefix in order to ensure that they are never written to SPOOL.					
-----					
End of Comment					
0	(0)	X'40'	0	SWBSWB	"BUFMEMW1-BFPDSECT+SWBIT" Storage address of next SWBIT
0	(0)	X'44'	0	SWBPSWB	"BUFMEMW2-BFPDSECT+SWBIT" Storage address of prior SWBIT
Comment					
-----					
End of buffer prefix fields					
-----					
End of Comment					
0	(0)	BITSTRING	1	(0)	BUFFER INFORMATION
Comment					
Common section - All versions have this section ( see SWBVERS for version info ).					
End of Comment					
0	(0)	X'68'	0	SWBSTART	***
Comment					
-----					
The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer.					
The following fields are defined:					
Eyecatcher - 4 bytes					
Job name - 8 bytes					
Job number - 4 bytes					
Job key - 4 bytes					
Dataset key - 4 bytes (or reserved if not applicable)					
-----					
End of Comment					
104	(68)	CHARACTER	4	SWBITID	Eyecatcher
108	(6C)	CHARACTER	8	SWBJNAME	Job name
116	(74)	SIGNED	4	SWJBNUM	Job number
120	(78)	BITSTRING	8	SWBKEY (0)	Record verification key
120	(78)	SIGNED	4	SWJBKEY	Job key
124	(7C)	SIGNED	4	SWBDSKEY	Dataset key
124	(7C)	X'18'	0	SWBSPLNG	** -SWBITID"

## \$SWBIT Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
The following EQUs are defined here only for compatibility. For all future references of job key, data set key and job name, the new names defined in SPID should be used.					
-----					
End of Comment					
124	(7C)	X'78'	0	SWBJKEY	"SWBJBKEY" EQU for Job key
124	(7C)	X'7C'	0	SWBDKEY	"SWBDSKEY" EQU for data set key
124	(7C)	X'6C'	0	SWBJOBNM	"SWBJNAME" EQU for job name
128	(80)	ADDRESS	2	SWBILENG	LEN OF SWB DATA RET BY GETSWB
130	(82)	ADDRESS	2	SWBELENG	Len of TU Erase list
132	(84)	ADDRESS	4	SWBTRACK	Track address (MTTR) of this SWBIT.
136	(88)	ADDRESS	4	SWBSWBTR	Track address (MTTR) of next SWBIT.
140	(8C)	ADDRESS	1	SWBDATOF	Offset from SWBSTART to SWB data field
141	(8D)	SIGNED	1	SWBVERS	SWB structure version:
141	(8D)	X'0'	0	SWBVER0	"0" Pre-z/OS 1.12 - no extended section (see below).
141	(8D)	X'C'	0	SWBVER12	"12" z/OS 1.12+ - has extended section (see below).
142	(8E)	BITSTRING	6	SWBIOTMQ	IOT with owning PDDB (MQTR)
142	(8E)	X'2C'	0	SWBDATST_Z11	**"-SWBSTART" Offset from header to SWB data - Pre Z/OS 1.12 ( if version is SWBVER0 )
142	(8E)	X'94'	0	SWBISIZ_Z11	**"-SWBIT" Size of SWBIT header - Pre Z/OS 1.12 ( if version is SWBVER0 )
148	(94)	SIGNED	4	SWBDATA_Z11 (0)	Start of SWB data - Pre Z/OS 1.12 ( if version is SWBVER0 )

Comment					
SWBIT extension - The following fields are only valid at version SWBVER12+					
End of Comment					
148	(94)	BITSTRING	6	SWBMQTRK	Track address (MQTR) of this SWBIT.
154	(9A)	BITSTRING	6	SWBNXTRK	Track address (MQTR) of next SWBIT.
160	(A0)	BITSTRING	12		Reserved for future use
160	(A0)	X'44'	0	SWBDATST_Z12	**"-SWBSTART" Offset from header to SWB data - Z/OS 1.12+ ( if version is SWBVER12 )
160	(A0)	X'AC'	0	SWBISIZ_Z12	**"-SWBIT" Size of SWBIT header - Z/OS 1.12+ ( if version is SWBVER12 )
172	(AC)	SIGNED	4	SWBDATA_Z12 (0)	Start of SWB data - Z/OS 1.12+ ( if version is SWBVER12 )

## \$SWBIT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SWBDATA_Z11	94		SWBJBKEY	78	
SWBDATA_Z12	AC		SWBJBNUM	74	
SWBDATOF	8C		SWBJKEY	7C	78
SWBDATST_Z11	8E	2C	SWBJNAME	6C	
SWBDATST_Z12	A0	44	SWBJOBNM	7C	6C
SWBDKEY	7C	7C	SWBKEY	78	
SWBDSKEY	7C		SWBMQTRK	94	
SWBELENG	82		SWBNXTRK	9A	
SWBILENG	80		SWBPSWB	0	44
SWBIOTMQ	8E		SWBSPLNG	7C	18
SWBISIZ_Z11	8E	94	SWBSTART	0	68
SWBISIZ_Z12	A0	AC	SWBSWB	0	40
SWBIT	0		SWBSWBTR	88	
SWBITID	68		SWBTRACK	84	

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
SWBVERS	8D	
SWBVER0	8D	0
SWBVER12	8D	C

## \$SWBIT Cross Reference

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## **\$SXADDR Information**

### **\$SXADDR Programming Interface information**

\_\_\_\_\_ Programming Interface information \_\_\_\_\_

**\$SXADDR**

\_\_\_\_\_ End of Programming Interface information \_\_\_\_\_

## Heading Information • \$SXADDR Map

### \$SXADDR Heading Information

**Common Name:** Scan Exit Routine Address Table/DSECT  
**Macro ID:** \$SXADDR  
**DSECT Name:** SXADDR  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'SXAD'  
 Offset: SXADDRID-SXADDR  
 Length: 4  
**Storage Attributes:** Subpool: The subpool of the HASJES20 load module  
 Key: 1  
 Residency: Virtual and real storage are below 16M, in the private storage of the JES2 address space.  
**Size:** See SXADDRLN  
**Created by:** The \$SXADDR is created by assembly of the HASPTABS module in the HASJES20 load module.  
**Pointed to by:** \$SXADDR field of the \$HCT data area  
**Serialization:** Read only  
**Function:** The SXADDR contains the addresses of all JES2 \$SCAN prescan and postscan routines. This allows the routines to be referenced in USER tables without requiring those tables to be link-edited with the HASJES20 load module

This macro has a DSECT= parameter. If DSECT=YES is used, the DSECT is generated, otherwise the table is expanded.

### \$SXADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SXADDR	JES2 private storage routine address table DSECT
0	(0)	CHARACTER	4	SXADDRID	SXADDR TABLE EYECATCHER
4	(4)	ADDRESS	1	SXADDRV	VERSION NUMBER
4	(4)	X'1'	0	SXADDRVN	"1" VERSION NUMBER
5	(5)	BITSTRING	3		RESERVED FOR FUTURE USE
Comment					
Module HASPSXIT exit routines					
End of Comment					
8	(8)	ADDRESS	4	SX@PREDBADT	"V(PREDBADT)" BADTRACK prescan
12	(C)	ADDRESS	4	SX@PSTBADTR	"V(PSTBADTR)" BADTRACK postscan
16	(10)	ADDRESS	4	SX@PSTADDR	"V(PSTADDR)" BADTRACK ADDR= postscan
20	(14)	ADDRESS	4	SX@PSTBUF	"V(PSTBUF)" BUFDEF postscan
24	(18)	ADDRESS	4	SX@PSTCHARS	"V(PSTCHARS)" COMPACT CHARS= postscan
28	(1C)	ADDRESS	4	SX@PRECKPT	"V(PRECKPT)" CKPTDEF prescan
32	(20)	ADDRESS	4	SX@PRECKPTN	"V(PRECKPTN)" CKPTDEF CKPTn/NEWCKPTn prescan
36	(24)	ADDRESS	4	SX@PRECKVRS	"V(PRECKVRS)" CKPTDEF VERSIONS=NUMBER= prescan
40	(28)	ADDRESS	4	SX@PSTCKPT	"V(PSTCKPT)" CKPTDEF postscan
44	(2C)	ADDRESS	4	SX@PSTCKPTN	"V(PSTCKPTN)" CKPTDEF CKPTn/NEWCKPTn postscan
48	(30)	ADDRESS	4	SX@PSTCKVRS	"V(PSTCKVRS)" CKPTDEF VERSIONS=NUMBER= postscan
52	(34)	ADDRESS	4	SX@PSTDSN	"V(PSTDSN)" CKPTDEF CKPT1/NEWCKPT1 DSNAME= postscan
56	(38)	ADDRESS	4	SX@PSTCKVOL	"V(PSTCKVOL)" CKPTDEF CKPT1/NEWCKPT1 VOLUME= postscan
60	(3C)	ADDRESS	4	SX@PSTCF	"V(PSTCF)" CKPTDEF CKPT1/NEWCKPT1 STRNAME= postscan
64	(40)	ADDRESS	4	SX@PREVOLT	"V(PREVOLT)" CKPTDEF CKPTn=VOLATILE= prescan

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
68	(44)	ADDRESS	4	SX@PSTCKMOD	"V(PSTCKMOD)" CKPTDEF MODE= postscan
72	(48)	ADDRESS	4	SX@PSTCKLCK	"V(PSTCKLCK)" \$E CKPTLOCK postscan
76	(4C)	ADDRESS	4	SX@PSTCKPSP	"V(PSTCKPSP)" CKPTSPACE postscan for \$T
80	(50)	ADDRESS	4	SX@PREBRNUM	"V(PREBRNUM)" CKPTSPACE BERTNUM= prescan
84	(54)	ADDRESS	4	SX@PREBRTUS	"V(PREBRTUS)" CKPTSPACE BERTUSE prescan
88	(58)	ADDRESS	4	SX@PRECLSGP	"V(PRECLSGP)" CLASSGRP prescan
92	(5C)	ADDRESS	4	SX@PSTCLSGP	"V(PSTCLSGP)" CLASSGRP postscan
96	(60)	ADDRESS	4	SX@PRECLGCT	"V(PRECLGCT)" CLASSGRP CLASS prescan
100	(64)	ADDRESS	4	SX@PREDCOMP	"V(PREDCOMP)" COMPACT prescan
104	(68)	ADDRESS	4	SX@PSTCOMP	"V(PSTCOMP)" COMPACT postscan
108	(6C)	ADDRESS	4	SX@PREDCCHAR	"V(PREDCCHAR)" COMPACT CHARS= prescan
112	(70)	ADDRESS	4	SX@PSTCMB	"V(PSTCMB)" CONDEF postscan
116	(74)	ADDRESS	4	SX@PSTPREFIX	"V(PSTPREFIX)" CONDEF postscan
120	(78)	ADDRESS	4	SX@PSTCNCHR	"V(PSTCNCHR)" CONDEF CONCHAR= postscan
124	(7C)	ADDRESS	4	SX@PSTRDCHR	"V(PSTRDCHR)" CONDEF RDRCHAR= postscan
128	(80)	ADDRESS	4	SX@PSTSCOPE	"V(PSTSCOPE)" CONDEF SCOPE= postscan
132	(84)	ADDRESS	4	SX@PSTDEBUG	"V(PSTDEBUG)" DEBUG postscan
136	(88)	ADDRESS	4	SX@PREDEST	"V(PREDEST)" DESTID DEST= prescan
140	(8C)	ADDRESS	4	SX@PREDESI	"V(PREDESI)" DESTID prescan
144	(90)	ADDRESS	4	SX@PSTDESI	"V(PSTDESI)" DESTID postscan
148	(94)	ADDRESS	4	SX@PSTEST	"V(PSTEST)" ESTBYTE/ESTIME/ESTLNCT/ESTPAGE/ ESTPUN postscan
152	(98)	ADDRESS	4	SX@PREEXIT	"V(PREEXIT)" EXIT prescan
156	(9C)	ADDRESS	4	SX@PSTEXIT	"V(PSTEXIT)" EXIT postscan
160	(A0)	ADDRESS	4	SX@PREEXRTN	"V(PREEXRTN)" EXIT ROUTINES= prescan
164	(A4)	ADDRESS	4	SX@PREDSBEX	"V(PREDSBEX)" EXIT ROUTINES= vector pre
168	(A8)	ADDRESS	4	SX@PSTDSBEX	"V(PSTDSBEX)" EXIT ROUTINES= vector post
172	(AC)	ADDRESS	4	SX@PREFSSDF	"V(PREFSSDF)" FSS prescan
176	(B0)	ADDRESS	4	SX@PSTFSSDF	"V(PSTFSSDF)" FSS postscan
180	(B4)	ADDRESS	4	SX@PREINCL	"V(PREINCL)" INCLUDE Prescan
184	(B8)	ADDRESS	4	SX@PSTINCL	"V(PSTINCL)" INCLUDE Postscan
188	(BC)	ADDRESS	4	SX@PSTINCDS	"V(PSTINCDS)" INCLUDE DSNAM= Postscan
192	(C0)	ADDRESS	4	SX@CLNUPPRW	"V(CLNUPPRW)" INCLUDE cleanup routine
196	(C4)	ADDRESS	4	SX@PREINIT	"V(PREINIT)" INIT prescan
200	(C8)	ADDRESS	4	SX@PSTINIT	"V(PSTINIT)" INIT postscan
204	(CC)	ADDRESS	4	SX@PREPSJB	"V(PREPSJB)" INIT subparm= prescan
208	(D0)	ADDRESS	4	SX@PREPITCL	"V(PREPITCL)" INIT CLASS= prescan
212	(D4)	ADDRESS	4	SX@PREPTVCL	"V(PREPTVCL)" INIT CLASS= vector prescan
216	(D8)	ADDRESS	4	SX@PSTCLASV	"V(PSTCLASV)" INIT CLASS= postscan verify
220	(DC)	ADDRESS	4	SX@PREINECL	"V(PREINECL)" INIT INELIGIBLE_CLASS= prescan
224	(E0)	ADDRESS	4	SX@PSTJOBCL	"V(PSTJOBCL)" CLASS= validation postscan
228	(E4)	ADDRESS	4	SX@PRE608	"V(PRE608)" JES2 HASP607 rc prescan
232	(E8)	ADDRESS	4	SX@PREAPCE	"V(PREAPCE)" JES2 active PCE prescan
236	(EC)	ADDRESS	4	SX@PREACTAS	"V(PREACTAS)" JES2 active addr sp prescan
240	(F0)	ADDRESS	4	SX@PREANETW	"V(PREANETW)" JES2 active network prescan
244	(F4)	ADDRESS	4	SX@PREHPCE	"V(PREHPCE)" JES2 held PCE prescan
248	(F8)	ADDRESS	4	SX@PREIREA	"V(PREIREA)" JES2 alloc INTRDR prescan
252	(FC)	ADDRESS	4	SX@PREXMEMB	"V(PREXMEMB)" JES2 X-memb request prescan
256	(100)	ADDRESS	4	SX@PREEOMCT	"V(PREEOMCT)" JES2 EOM activity prescan
260	(104)	ADDRESS	4	SX@PREPSOCT	"V(PREPSOCT)" JES2 PSO activity prescan
264	(108)	ADDRESS	4	SX@PRESAPCT	"V(PRESAPCT)" JES2 SAPI activity prescan
268	(10C)	ADDRESS	4	SX@PREDEVNM	"V(PREDEVNM)" JES2 Device name prescan
272	(110)	ADDRESS	4	SX@PREDIL	"V(PREDIL)" JES2 DWA BERT prescan
276	(114)	ADDRESS	4	SX@PRESPM	"V(PRESPM)" JES2 SPOOL Migration DTE
280	(118)	ADDRESS	4	SX@PSTDEVST	"V(PSTDEVST)" JES2/NET Line device status
284	(11C)	ADDRESS	4	SX@PREDAUTH	"V(PREDAUTH)" JOBCLASS/STCCCLASS/TSUCLASS AUTH= prescan
288	(120)	ADDRESS	4	SX@PREAUTH	"V(PREAUTH)" JOBCLASS/STCCCLASS/TSUCLASS AUTH prescan
292	(124)	ADDRESS	4	SX@PSTQHPST	"V(PSTQHPST)" JOBCLASS QHELD,TYPE,MAX
296	(128)	ADDRESS	4	SX@PSTJQPST	"V(PSTJQPST)" General routine to post XEQ
300	(12C)	ADDRESS	4	SX@PSTOGDJC	"V(PSTOGDJC)" JOBCLASS/STCCCLASS/TSUCLASS OUTDISP= postscan

## \$SXADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
304	(130)	ADDRESS	4	SX@PREOGDJC	"V(PREOGDJC)" JOBCLASS/STCCCLASS/TSUCLASS OUTDISP= prescan
308	(134)	ADDRESS	4	SX@PREREGN	"V(PREREGN)" JOBCLASS/STCCCLASS/TSUCLASS REGION= prescan
312	(138)	ADDRESS	4	SX@PSTREGN	"V(PSTREGN)" JOBCLASS/STCCCLASS/TSUCLASS REGION= postscan
316	(13C)	ADDRESS	4	SX@PSTCAT	"V(PSTCAT)" JOBCLASS/STCCCLASS/TSUCLASS command postscan
320	(140)	ADDRESS	4	SX@PSTCATI	"V(PSTCATI)" JOBCLASS init stmt postscan
324	(144)	ADDRESS	4	SX@PSTCATNW	"V(PSTCATNW)" JOBCLASS postscan
328	(148)	ADDRESS	4	SX@PREJESLS	"V(PREJESLS)" JOBCLASS JESLOG SET prescan
332	(14C)	ADDRESS	4	SX@PREJESLD	"V(PREJESLD)" JOBCLASS JESLOG DISP prescan
336	(150)	ADDRESS	4	SX@PSTDUPLC	"V(PSTDUPLC)" JOBCLASS DUPL_JOB= postscan
340	(154)	ADDRESS	4	SX@PSTJOBDF	"V(PSTJOBDF)" JOBDEF postscan for \$T
344	(158)	ADDRESS	4	SX@PSTJBJNC	"V(PSTJBJNC)" JOBDEF postscan for \$T of BAD_JOBNAME_CHAR
348	(15C)	ADDRESS	4	SX@PSTJBNUM	"V(PSTJBNUM)" JOBDEF JOBNUM= postscan
352	(160)	ADDRESS	4	SX@PREJRBLD	"V(PREJRBLD)" JOBDEF JOBRBLDQ=/OUTDEF JOERBLDQ= prescan
356	(164)	ADDRESS	4	SX@PSTJRNG	"V(PSTJRNG)" JOBDEF RANGE postscan
360	(168)	ADDRESS	4	SX@PSTPRTY	"V(PSTPRTY)" JOBDEF PRTYRATE= postscan
364	(16C)	ADDRESS	4	SX@PSTDUPL	"V(PSTDUPL)" JOBDEF DUPL_JOB= postscan
368	(170)	ADDRESS	4	SX@PREMESYS	"V(PREMEYS)" MASDEF AUTOEMEM= prescan
372	(174)	ADDRESS	4	SX@PSTMESYS	"V(PSTMESYS)" MASDEF AUTOEMEM= postscan
376	(178)	ADDRESS	4	SX@PRERHELD	"V(PRERHELD)" MASDEF RSVHELD= prescan
380	(17C)	ADDRESS	4	SX@PSTHOLD	"V(PSTHOLD)" MASDEF HOLD= postscan
384	(180)	ADDRESS	4	SX@PREDQST	"V(PREDQST)" MEMBER STATUS= prescan
388	(184)	ADDRESS	4	SX@PREMDEFD	"V(PREMDEFD)" MEMBER IND= prescan
392	(188)	ADDRESS	4	SX@PSTSNAME	"V(PSTSNAME)" MEMBER NAME=/MASDEF OWNMEMB= postscan
396	(18C)	ADDRESS	4	SX@PREDSID	"V(PREDSID)" MEMBER RESETBY=, SPOOL MIGRATOR prescan
400	(190)	ADDRESS	4	SX@PSTMIND	"V(PSTMIND)" MEMBER IND= postscan
404	(194)	ADDRESS	4	SX@PSTEMEM	"V(PSTEMEM)" MEMBER postscan
408	(198)	ADDRESS	4	SX@PREDEMEM	"V(PREDEMEM)" MEMBER prescan
412	(19C)	ADDRESS	4	SX@PRECKPTT	"V(PRECKPTT)" MEMBER TIME= prescan
416	(1A0)	ADDRESS	4	SX@PREMSNM	"V(PREMSNM)" MEMBER SYSNAME= prescan
420	(1A4)	ADDRESS	4	SX@PREDSLIM	"V(PREDSLIM)" OUTDEF DSLIMIT= prescan
424	(1A8)	ADDRESS	4	SX@PREJOEUS	"V(PREJOEUS)" OUTDEF JOEUSE prescan
428	(1AC)	ADDRESS	4	SX@PREOUTJX	"V(PREOUTJX)" OUTDEF WS_OPT= prescan
432	(1B0)	ADDRESS	4	SX@PREXWA	"V(PREXWA)" OUTDEF prescan
436	(1B4)	ADDRESS	4	SX@PSTLDSR	"V(PSTLDSR)" OUTDEF DSLIMIT= postscan
440	(1B8)	ADDRESS	4	SX@PSTOUTDF	"V(PSTOUTDF)" OUTDEF postscan for \$T
444	(1BC)	ADDRESS	4	SX@PSTOUTSO	"V(PSTOUTSO)" OUTDEF SAPI_OPT= postscan
448	(1C0)	ADDRESS	4	SX@PSTOUTJX	"V(PSTOUTJX)" OUTDEF WS_OPT= postscan
452	(1C4)	ADDRESS	4	SX@PSTJONUM	"V(PSTJONUM)" OUTDEF JOENUM= postscan
456	(1C8)	ADDRESS	4	SX@PSTPRYO	"V(PSTPRYO)" OUTDEF PRYORATE= postscan
460	(1CC)	ADDRESS	4	SX@PSTROPT	"V(PSTROPT)" OUTDEF PRTYOUT= postscan
464	(1D0)	ADDRESS	4	SX@PSTSEGLM	"V(PSTSEGLM)" OUTDEF SEGLIM= postscan
468	(1D4)	ADDRESS	4	SX@PREOGDOS	"V(PREOGDOS)" OUTCLASS prescan
472	(1D8)	ADDRESS	4	SX@PSTOGDOS	"V(PSTOGDOS)" OUTCLASS postscan
476	(1DC)	ADDRESS	4	SX@PREOGDOC	"V(PREOGDOC)" OUTCLASS OUTDISP= prescan
480	(1E0)	ADDRESS	4	SX@PSTOGDOC	"V(PSTOGDOC)" OUTCLASS OUTDISP= postscan
484	(1E4)	ADDRESS	4	SX@PREPCETB	"V(PREPCETB)" PCE command prescan
488	(1E8)	ADDRESS	4	SX@PSTPCETB	"V(PSTPCETB)" PCE set command postscan
492	(1EC)	ADDRESS	4	SX@PREPCEDT	"V(PREPCEDT)" PCE DETAILS prescan
496	(1F0)	ADDRESS	4	SX@PREPCEDN	"V(PREPCEDN)" PCE DETAILS NAME prescan
500	(1F4)	ADDRESS	4	SX@PREPCEWF	"V(PREPCEWF)" PCE DETAILS WAIT prescan
504	(1F8)	ADDRESS	4	SX@PREPCEDJ	"V(PREPCEDJ)" PCE DETAILS CURJOB prescan
508	(1FC)	ADDRESS	4	SX@PREPCEFW	"V(PREPCEFW)" PCE DETAILS subparm prescan
512	(200)	ADDRESS	4	SX@PREPRFRS	"V(PREPRFRS)" PERFDATA RESET prescan
516	(204)	ADDRESS	4	SX@PREPRFSU	"V(PREPRFSU)" PERFDATA setup prescan
520	(208)	ADDRESS	4	SX@PREEVDUR	"V(PREEVDUR)" PERFDATA(EVENT) DURATION=
524	(20C)	ADDRESS	4	SX@PREPRFPC	"V(PREPRFPC)" PERFDATA(PCESTAT) CPU% prescan



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
528	(210)	ADDRESS	4	SX@PREPRFNL	"V(PREPRFNL)" PERFDATA(PCESTAT) PCENAME= prescan
532	(214)	ADDRESS	4	SX@PREPRFFL	"V(PREPRFFL)" PERFDATA(PCESTAT) PCENAME= prescan
536	(218)	ADDRESS	4	SX@PREPRFPS	"V(PREPRFPS)" PERFDATA(PCESTAT) POST= prescan
540	(21C)	ADDRESS	4	SX@PREWAITP	"V(PREWAITP)" PERFDATA(PCESTAT) WAIT= prescan
544	(220)	ADDRESS	4	SX@PREPRFWA	"V(PREPRFWA)" PERFDATA(PCESTAT) AVGWAIT= prescan
548	(224)	ADDRESS	4	SX@PREPRFPA	"V(PREPRFPA)" PERFDATA(PCESTAT) AVGWAIT= prescan
552	(228)	ADDRESS	4	SX@PREPRFQA	"V(PREPRFQA)" PERFDATA(QSUSE) AVGWAIT= prescan
556	(22C)	ADDRESS	4	SX@PREPDRPT	"V(PREPDRPT)" PERFDATA(SAMPDATA) RPTCLASS=
560	(230)	ADDRESS	4	SX@PREPDSRV	"V(PREPDSRV)" PERFDATA(SAMPDATA) SRVCLASS=
564	(234)	ADDRESS	4	SX@PREWSC	"V(PREWSC)" PERFDATA(SAMPDATA) and SRVCLASS prescan
568	(238)	ADDRESS	4	SX@PREWSCA	"V(PREWSCA)" SRVCLASS prescan for \$ADD
572	(23C)	ADDRESS	4	SX@PSTWSCA	"V(PSTWSCA)" SRVCLASS pstscan for \$ADD
576	(240)	ADDRESS	4	SX@PSTWSCB	"V(PSTWSCB)" SRVCLASS pstscan for \$ADD
580	(244)	ADDRESS	4	SX@PREPRFZR	"V(PREPRFZR)" PERFDATA skip if 0 prescan
584	(248)	ADDRESS	4	SX@PREPRFDT	"V(PREPRFDT)" PERFDATA microsecond display prescan
588	(24C)	ADDRESS	4	SX@PSTPRTDF	"V(PSTPRTDF)" PRINTDEF postscan for \$T
592	(250)	ADDRESS	4	SX@PSTRECV	"V(PSTRECV)" RECVOPTS postscan
596	(254)	ADDRESS	4	SX@PRERDSTM	"V(PRERDSTM)" REDIRECT prescan
600	(258)	ADDRESS	4	SX@PSTRDSTM	"V(PSTRDSTM)" REDIRECT postscan
604	(25C)	ADDRESS	4	SX@PRECMDR	"V(PRECMDR)" REDIRECT subparm= prescan
608	(260)	ADDRESS	4	SX@PRESPOOL	"V(PRESPOOL)" SPOOL prescan
612	(264)	ADDRESS	4	SX@PREISPOL	"V(PREISPOL)" SPOOL init stmt prescan
616	(268)	ADDRESS	4	SX@PSTSPPOOL	"V(PSTSPPOOL)" SPOOL postscan
620	(26C)	ADDRESS	4	SX@PREDUSEC	"V(PREDUSEC)" SPOOL TGINUSE= prescan
624	(270)	ADDRESS	4	SX@PREDUSEP	"V(PREDUSEP)" SPOOL PERCENT= prescan
628	(274)	ADDRESS	4	SX@CVLDRAIN	"V(CVLDRAIN)" SPOOL AWAITING= prescan
632	(278)	ADDRESS	4	SX@PREDSSAF	"V(PREDSSAF)" SPOOL SYSAFF= prescan
636	(27C)	ADDRESS	4	SX@PREISPSF	"V(PREISPSF)" SPOOL INIT SYSAFF= prescan
640	(280)	ADDRESS	4	SX@PREFSPAF	"V(PREFSPAF)" SPOOL SYSAFF= prescan fltr
644	(284)	ADDRESS	4	SX@PSTSPDSN	"V(PSTSPDSN)" SPOOL DSNAME= postscan
648	(288)	ADDRESS	4	SX@PREATTR	"V(PREATTR)" SPOOL unit data attributes
652	(28C)	ADDRESS	4	SX@PREDSTS	"V(PREDSTS)" SPOOL STATUS= prescan
656	(290)	ADDRESS	4	SX@PSTDWRKQ	"V(PSTDWRKQ)" SPOOL STATUS= postscan
660	(294)	ADDRESS	4	SX@PSTSPSAF	"V(PSTSPSAF)" SPOOL SYSAFF= postscan
664	(298)	ADDRESS	4	SX@PRES PST	"V(PRES PST)" SPOOL SPACE= prescan
668	(29C)	ADDRESS	4	SX@PSTSPSTX	"V(PSTSPSTX)" SPOOL SPACE= postscan
672	(2A0)	ADDRESS	4	SX@PSTSPSTAR	"V(PSTSPSTAR)" SPOOL TARGET= postscan
676	(2A4)	ADDRESS	4	SX@PREMIGDA	"V(PREMIGDA)" SPOOL MIGDATA= prescan
680	(2A8)	ADDRESS	4	SX@PREMPERC	"V(PREMPERC)" SPOOL MPERCENT= prescan
684	(2AC)	ADDRESS	4	SX@PREDRSVD	"V(PREDRSVD)" SPOOL RESERVED= prescan
688	(2B0)	ADDRESS	4	SX@PREABSTR	"V(PREABSTR)" SPOOL ABSTR= prescan
692	(2B4)	ADDRESS	4	SX@PSTSP LDF	"V(PSTSP LDF)" SPOOLDEF postscan for \$T
696	(2B8)	ADDRESS	4	SX@PSTFEN	"V(PSTFEN)" SPOOLDEF postscan for \$T
700	(2BC)	ADDRESS	4	SX@PRECYLDS	"V(PRECYLDS)" SPOOLDEF CYL_MANAGED = prescan
704	(2C0)	ADDRESS	4	SX@PSTCYLDS	"V(PSTCYLDS)" SPOOLDEF CYL_MANAGED = postscan
708	(2C4)	ADDRESS	4	SX@PST SPL	"V(PST SPL)" SPOOLDEF SPOOLNUM= postscan
712	(2C8)	ADDRESS	4	SX@PSTFENO	"V(PSTFENO)" SPOOLDEF FENCE=YES postscan
716	(2CC)	ADDRESS	4	SX@PST SPLDS	"V(PST SPLDS)" SPOOLDEF LARGEDS= postscan
720	(2D0)	ADDRESS	4	SX@PREDFRE	"V(PREDFRE)" SPOOLDEF TGSPACE=FREE pre
724	(2D4)	ADDRESS	4	SX@PRESDPCT	"V(PRESDPCT)" SPOOLDEF PERCENT= prescan
728	(2D8)	ADDRESS	4	SX@PSTSPDVL	"V(PSTSPDVL)" SPOOLDEF VOLUME= postscan
732	(2DC)	ADDRESS	4	SX@PRE DSSI	"V(PRE DSSI)" SSI prescan
736	(2E0)	ADDRESS	4	SX@PSTTP	"V(PSTTP)" TPDEF postscan
740	(2E4)	ADDRESS	4	SX@PST SICE	"V(PST SICE)" TPDEF postscan
744	(2E8)	ADDRESS	4	SX@PSTLSPIN	"V(PSTLSPIN)" TRACEDEF SPIN postscan
748	(2EC)	ADDRESS	4	SX@PSTNOTAB	"V(PSTNOTAB)" TRACEDEF postscan
752	(2F0)	ADDRESS	4	SX@PRE TDFID	"V(PRE TDFID)" TRACEDEF IDS= prescan
756	(2F4)	ADDRESS	4	SX@PRETRCID	"V(PRETRCID)" TRACE prescan
760	(2F8)	ADDRESS	4	SX@PSTTRFLT	"V(PSTTRFLT)" TRACE filtering postscan
764	(2FC)	ADDRESS	4	SX@PRENULL	"V(PRENULL)" General prescan routine to skip keyword (returns RC=8)
768	(300)	ADDRESS	4	SX@PSTLIM1	"V(PSTLIM1)" General LIMIT/PLIM/RANGE postscan
772	(304)	ADDRESS	4	SX@PRELIMIT	"V(PRELIMIT)" General LIMIT/PLIM/RANGE prescan

## \$\$SXADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
776	(308)	ADDRESS	4	SX@PSTLIMIT	"V(PSTLIMIT)" General LIMIT/PLIM/RANGE postscan
780	(30C)	ADDRESS	4	SX@PREQSUSE	"V(PREQSUSE)" General prescan to do \$QSUSE
784	(310)	ADDRESS	4	SX@PREHOTS	"V(PREHOTS)" General prescan to ignore keyword on hot start
788	(314)	ADDRESS	4	SX@PREDNEGZ	"V(PREDNEGZ)" General prescan to display 0 for negative value
792	(318)	ADDRESS	4	SX@PREDNOCB	"V(PREDNOCB)" General prescan to test for missing control block
796	(31C)	ADDRESS	4	SX@PRECKLEV	"V(PRECKLEV)" General prescan to check for dynamic CKPT level
800	(320)	ADDRESS	4	SX@PRECAT	"V(PRECAT)" JOBCLASS command prescan
804	(324)	ADDRESS	4	SX@PRECATI	"V(PRECATI)" JOBCLASS init stmt prescan
808	(328)	ADDRESS	4	SX@PRECATTS	"V(PRECATTS)" STCCCLASS/TSUCLASS prescan
812	(32C)	ADDRESS	4		Reserved - delete for xmit
816	(330)	ADDRESS	4	SX@PSTCGROP	"V(PSTCGROP)" JOBCLASS GROUP postscan
820	(334)	ADDRESS	4	SX@PREPITRS	"V(PREPITRS)" INIT STATUS=STARTING prescan
824	(338)	ADDRESS	4	SX@PREDSAFL	"V(PREDSAFL)" General prescan to display list of affinities
828	(33C)	ADDRESS	4	SX@PREISTC	"V(PREISTC)" INIT STC= prescan
832	(340)	ADDRESS	4	SX@PREACTSZ	"V(PREACTSZ)" \$D ACTIVATE prescan
836	(344)	ADDRESS	4	SX@PREACTIV	"V(PREACTIV)" ACTIVATE prescan
840	(348)	ADDRESS	4	SX@PSTACTIV	"V(PSTACTIV)" ACTIVATE postscan
844	(34C)	ADDRESS	4	SX@PSTCATSC	"V(PSTCATSC)" JOBCLASS SCHENV= postscan
848	(350)	ADDRESS	4	SX@PSTCSCHE	"V(PSTCSCHE)" JOBCLASS SCHENV = Pstscan
852	(354)	ADDRESS	4	SX@PREZAPJB	"V(PREZAPJB)" ZAPJOB Prescan
856	(358)	ADDRESS	4	SX@PSTZAPJB	"V(PSTZAPJB)" ZAPJOB Postscan
860	(35C)	ADDRESS	4	SX@PSTVJBID	"V(PSTVJBID)" Validate JOBID keyword
864	(360)	ADDRESS	4	SX@PREJCLMD	"V(PREJCLMD)" JOBCLASS MODE postscan
868	(364)	ADDRESS	4	SX@PSTJCLMD	"V(PSTJCLMD)" JOBCLASS MODE postscan
872	(368)	ADDRESS	4	SX@PSTHPRM	"V(PSTHPRM)" INIT PARM HASPPARM = postscan
876	(36C)	ADDRESS	4	SX@PSTPMEM	"V(PSTPMEM)" INIT PARM MEMBER = postscan
880	(370)	ADDRESS	4	SX@PRESNIFF	"V(PRESNIFF)" SPOOLDEF SNIFF prescan
884	(374)	ADDRESS	4	SX@PSTSNIFF	"V(PSTSNIFF)" SPOOLDEF SNIFF pstscan
888	(378)	ADDRESS	4	SX@PREZRCHK	"V(PREZRCHK)" General prescan to skip display if field is zero
892	(37C)	ADDRESS	4	SX@PREFFCHK	"V(PREFFCHK)" General prescan to skip display if field is FFs
896	(380)	ADDRESS	4	SX@PREFLHOT	"V(PREFLHOT)" COLD/FORMAT start option
900	(384)	ADDRESS	4	SX@PREDEVID	"V(PREDEVID)" General prescan to display devid fields
904	(388)	ADDRESS	4	SX@PREZPSEQ	"V(PREZPSEQ)" Format z/OS product level
908	(38C)	ADDRESS	4		Reserved for future use
912	(390)	ADDRESS	4		Reserved for future use
916	(394)	ADDRESS	4		Reserved for future use
920	(398)	ADDRESS	4		Reserved for future use
924	(39C)	ADDRESS	4		Reserved for future use
928	(3A0)	ADDRESS	4		Reserved for future use
932	(3A4)	ADDRESS	4		Reserved for future use
936	(3A8)	ADDRESS	4		Reserved for future use

### Comment

Module HASPSXDV exit routines

Note: Many routines in HASPSXDV are called for several types of devices or several keywords on a specific device type.

### End of Comment

940	(3AC)	ADDRESS	4	SX@PREACMEM	"V(PREACMEM)" ACTRMT MEMBER= prescan
944	(3B0)	ADDRESS	4	SX@PSTIRTRC	"V(PSTIRTRC)" INTRDR TRACE=
948	(3B4)	ADDRESS	4	SX@PRELDVL	"V(PRELDVL)" Ln prescan
952	(3B8)	ADDRESS	4	SX@PRELDEV	"V(PRELDEV)" Ln.dev prescan
956	(3BC)	ADDRESS	4	SX@PSTTRANS	"V(PSTTRANS)" Ln.dev postscan
960	(3C0)	ADDRESS	4	SX@PRELINE	"V(PRELINE)" LINE prescan
964	(3C4)	ADDRESS	4	SX@PSTLINE	"V(PSTLINE)" LINE postscan
968	(3C8)	ADDRESS	4	SX@PSTLINEA	"V(PSTLINEA)" LINE postscan
972	(3CC)	ADDRESS	4	SX@PRELNSTK	"V(PRELNSTK)" LINE CONNECT time prescan
976	(3D0)	ADDRESS	4	SX@PRELFLT	"V(PRELFLT)" LINE JTNUM=/STNUM=/JRNUM=/SRNUM= prescan

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
980	(3D4)	ADDRESS	4	SX@PRELDNDE	"V(PRELDNDE)" LINE NODES= display prescan
984	(3D8)	ADDRESS	4	SX@PRELFNDE	"V(PRELFNDE)" LINE NODES= display prescan
988	(3DC)	ADDRESS	4	SX@PSTLTRST	"V(PSTLTRST)" LINE TRACE= set postscan
992	(3E0)	ADDRESS	4	SX@PSTLTRSS	"V(PSTLTRSS)" LINE TRACE= set postscan
996	(3E4)	ADDRESS	4	SX@PREVTRC	"V(PREVTRC)" LINE/NETSRV TRACE= filter prescan
1000	(3E8)	ADDRESS	4	SX@PRELNERS	"V(PRELNERS)" LINE RMTSHARE= prescan
1004	(3EC)	ADDRESS	4	SX@PRELINST	"V(PRELINST)" LINE STATUS= prescan
1008	(3F0)	ADDRESS	4	SX@PSTLINST	"V(PSTLINST)" LINE STATUS= postscan
1012	(3F4)	ADDRESS	4	SX@PSTLGNA	"V(PSTLGNA)" LOGON postscan
1016	(3F8)	ADDRESS	4	SX@PSTSRVA	"V(PSTSRVA)" NETSRV postscan
1020	(3FC)	ADDRESS	4	SX@PRESVSES	"V(PRESVSES)" NETSRV SESSIONS= prescan
1024	(400)	ADDRESS	4	SX@PSTSVSCK	"V(PSTSVSCK)" NETSRV SOCKET= postscan
1028	(404)	ADDRESS	4	SX@PSTNTRST	"V(PSTNTRST)" NETSRV TRACE= set postscan
1032	(408)	ADDRESS	4	SX@PSTNTRSS	"V(PSTNTRSS)" NETSRV TRACE= set postscan
1036	(40C)	ADDRESS	4	SX@PREOGDSR	"V(PREOGDSR)" OFFn.SR OUTDISP= prescan
1040	(410)	ADDRESS	4	SX@PSTMDRC	"V(PSTMDRC)" OFFn.SR MOD=ROUTECD= postscan
1044	(414)	ADDRESS	4	SX@PREOGDST	"V(PREOGDST)" OFFn.ST/Ln.ST OUTDISP= prescan
1048	(418)	ADDRESS	4	SX@PSTMDSAF	"V(PSTMDSAF)" OFFn.JR MOD=SYSAFF= postscan
1052	(41C)	ADDRESS	4	SX@PREDSAF	"V(PREDSAF)" OFF.JT/OFF.JR SYSAFF= prescan
1056	(420)	ADDRESS	4	SX@PSTSAF	"V(PSTSAF)" OFF.JT/OFF.JR SYSAFF= postscan
1060	(424)	ADDRESS	4	SX@PREOFFCL	"V(PREOFFCL)" OFF.JT/OFF.JR class prescan
1064	(428)	ADDRESS	4	SX@PSTOARCH	"V(PSTOARCH)" OFFLOAD ARCHIVE= postscan
1068	(42C)	ADDRESS	4	SX@PREPROCL	"V(PREPROCL)" PROCLIB prescan
1072	(430)	ADDRESS	4	SX@PSTPROCL	"V(PSTPROCL)" PROCLIB postscan
1076	(434)	ADDRESS	4	SX@CLNUPPAD	"V(CLNUPPAD)" PROCLIB cleanup routine
1080	(438)	ADDRESS	4	SX@PREPRT	"V(PREPRT)" PRT prescan
1084	(43C)	ADDRESS	4	SX@PSTPRT	"V(PSTPRT)" PRT postscan
1088	(440)	ADDRESS	4	SX@PREDFLNO	"V(PREDFLNO)" PRT DEVFLASH= prescan
1092	(444)	ADDRESS	4	SX@PSTPRDFL	"V(PSTPRDFL)" PRT DEVFLASH= postscan
1096	(448)	ADDRESS	4	SX@PSTDDFCB	"V(PSTDDFCB)" PRT/Rn.PRn DEVFCB= postscan
1100	(44C)	ADDRESS	4	SX@PSTPRFCB	"V(PSTPRFCB)" PRT/Rn.PRn FCB= postscan
1104	(450)	ADDRESS	4	SX@PSTDFCB	"V(PSTDFCB)" PRT/Rn.PRn FCB= postscan
1108	(454)	ADDRESS	4	SX@PSTPRFLS	"V(PSTPRFLS)" PRT FLASH= prescan
1112	(458)	ADDRESS	4	SX@PREDFSS	"V(PREDFSS)" PRT FSS= prescan
1116	(45C)	ADDRESS	4	SX@PSTSFSS	"V(PSTSFSS)" PRT FSS= postscan
1120	(460)	ADDRESS	4	SX@PRELSFRM	"V(PRELSFRM)" PRT LASTFORM= prescan
1124	(464)	ADDRESS	4	SX@PREPMODE	"V(PREPMODE)" PRT PRMODE= prescan
1128	(468)	ADDRESS	4	SX@PSTPRUCS	"V(PSTPRUCS)" PRT/Rn.PRn UCS= postscan
1132	(46C)	ADDRESS	4	SX@PSTDUCS	"V(PSTDUCS)" PRT/Rn.PRn UCS= postscan
1136	(470)	ADDRESS	4	SX@PFSQUERY	"V(PFSQUERY)" PRT subparm= prescan (FSS query)
1140	(474)	ADDRESS	4	SX@PFSQFREE	"V(PFSQFREE)" PRT subparm= prescan (PFSQUERY cleanup)
1144	(478)	ADDRESS	4	SX@PRENIPRT	"V(PRENIPRT)" PRT subparm= prescan (test non-impact)
1148	(47C)	ADDRESS	4	SX@PREPIFNL	"V(PREPIFNL)" PRT subparm= prescan (test **** value)
1152	(480)	ADDRESS	4	SX@PRPRESET	"V(PRPRESET)" PRT subparm= prescan (test RESET value)
1156	(484)	ADDRESS	4	SX@PREDEVDR	"V(PREDEVDR)" PRT subparm= prescan (test drain)
1160	(488)	ADDRESS	4	SX@PREOPACT	"V(PREOPACT)" PRT subparm= prescan (test operator action)
1164	(48C)	ADDRESS	4	SX@PSTFSUPD	"V(PSTFSUPD)" PRT subparm= postscan (FSA update)
1168	(490)	ADDRESS	4	SX@PSTFSNSP	"V(PSTFSNSP)" PRT subparm= postscan (FSACB update)
1172	(494)	ADDRESS	4	SX@PSTFSSET	"V(PSTFSSET)" PRT subparm= postscan (FSS SET order)
1176	(498)	ADDRESS	4	SX@PSTFSYNC	"V(PSTFSYNC)" PRT subparm= postscan (FSS SYNCH order)
1180	(49C)	ADDRESS	4	SX@PSTPUN	"V(PSTPUN)" PUN postscan
1184	(4A0)	ADDRESS	4	SX@PRERDEV	"V(PRERDEV)" Rn.dev prescan
1188	(4A4)	ADDRESS	4	SX@PRERDVAU	"V(PRERDVAU)" PR/PU/RD prescan to verify command from remote device
1192	(4A8)	ADDRESS	4	SX@PSTSELCT	"V(PSTSELCT)" Rn.PRn/Rn.PUn SELECT= postscan
1196	(4AC)	ADDRESS	4	SX@PREDSLCT	"V(PREDSLCT)" Rn.PRn/Rn.PUn SELECT= prescan
1200	(4B0)	ADDRESS	4	SX@PSTRDVCM	"V(PSTRDVCM)" Rn.PRn/Rn.PUn CMPCT= postscan
1204	(4B4)	ADDRESS	4	SX@PSTRDVCO	"V(PSTRDVCO)" Rn.PRn/Rn.PUn COMPRESS= postscan
1208	(4B8)	ADDRESS	4	SX@PSTRDEV	"V(PSTRDEV)" Rn.PRn/Rn.PUn postscan
1212	(4BC)	ADDRESS	4	SX@PRERMTRC	"V(PRERMTRC)" Rn.PRn/Rn.PUn ROUTECDE= prescan
1216	(4C0)	ADDRESS	4	SX@PRERPZPT	"V(PRERPZPT)" Rn.PRn/Rn.PUn COMPACT= prescan
1220	(4C4)	ADDRESS	4	SX@PREDPZPT	"V(PREDPZPT)" Rn.PRn/Rn.PUn COMPACT= prescan
1224	(4C8)	ADDRESS	4	SX@PRERMT	"V(PRERMT)" RMT prescan
1228	(4CC)	ADDRESS	4	SX@PSTRMT	"V(PSTRMT)" RMT postscan

## \$\$SXADDR Map

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
1232	(4D0)	ADDRESS	4	SX@PSTRMTA	"V(PSTRMTA)" RMT prescan	
1236	(4D4)	ADDRESS	4	SX@PSTRMTLN	"V(PSTRMTLN)" RMT LINE= prescan	
1240	(4D8)	ADDRESS	4	SX@PRERMTTP	"V(PRERMTTP)" RMT PASSWORD= prescan	
1244	(4DC)	ADDRESS	4	SX@PRERMTSH	"V(PRERMTSH)" RMT SHARABLE= prescan	
1248	(4E0)	ADDRESS	4	SX@PSTRMTSH	"V(PSTRMTSH)" RMT SHARABLE= postscan	
1252	(4E4)	ADDRESS	4	SX@PRERMTST	"V(PRERMTST)" RMT STATUS= prescan	
1256	(4E8)	ADDRESS	4	SX@PREMULFM	"V(PREMULFM)" Device FORMS= prescan	
1260	(4EC)	ADDRESS	4	SX@PSTWFORM	"V(PSTWFORM)" Device FORMS= postscan	
1264	(4F0)	ADDRESS	4	SX@PSTJOBNM	"V(PSTJOBNM)" Device JOBNAME= postscan	
1268	(4F4)	ADDRESS	4	SX@PSTPRMD	"V(PSTPRMD)" Device PRMODE= postscan	
1272	(4F8)	ADDRESS	4	SX@PREDPRMD	"V(PREDPRMD)" Device PRMODE= prescan	
1276	(4FC)	ADDRESS	4	SX@PREFPRMD	"V(PREFPRMD)" Device PRMODE= prescan	
1280	(500)	ADDRESS	4	SX@PRERDEST	"V(PRERDEST)" Device PRTDEST/PUNDEST/XEQDEST prescan	
1284	(504)	ADDRESS	4	SX@PRERNG	"V(PRERNG)" Device RANGE= prescan	
1288	(508)	ADDRESS	4	SX@PREDRNG	"V(PREDRNG)" Device RANGE= prescan	
1292	(50C)	ADDRESS	4	SX@PREDVSTK	"V(PREDVSTK)" Device RESTART time prescan	
1296	(510)	ADDRESS	4	SX@PSTRC	"V(PSTRC)" Device ROUTECDE= postscan	
1300	(514)	ADDRESS	4	SX@PREDRC	"V(PREDRC)" Device ROUTECDE= prescan	
1304	(518)	ADDRESS	4	SX@PREFRC	"V(PREFRC)" Device ROUTECDE= prescan	
1308	(51C)	ADDRESS	4	SX@PREDSTAT	"V(PREDSTAT)" Device STATUS= prescan	
1312	(520)	ADDRESS	4	SX@PREDDVJB	"V(PREDDVJB)" Device STATUS= prescan	
1316	(524)	ADDRESS	4	SX@PREDDVRC	"V(PREDDVRC)" Device STATUS= prescan	
1320	(528)	ADDRESS	4	SX@PREDRSAF	"V(PREDRSAF)" Device SYSAFF= prescan	
1324	(52C)	ADDRESS	4	SX@PSTSRSAF	"V(PSTSRSAF)" Device SYSAFF= postscan	
1328	(530)	ADDRESS	4	SX@PSTSRSF2	"V(PSTSRSF2)" Device SYSAFF= postscan	
1332	(534)	ADDRESS	4	SX@PSTUNIT	"V(PSTUNIT)" Device UNIT= postscan	
1336	(538)	ADDRESS	4	SX@PREUNIT	"V(PREUNIT)" Device UNIT= postscan	
1340	(53C)	ADDRESS	4	SX@PSTVOL	"V(PSTVOL)" Device VOLUME= postscan	
1344	(540)	ADDRESS	4	SX@PREDWS	"V(PREDWS)" Device WS= prescan	
1348	(544)	ADDRESS	4	SX@PSTWS	"V(PSTWS)" Device WS= postscan	
1352	(548)	ADDRESS	4	SX@PSTTRCDV	"V(PSTTRCDV)" Device TRACE= postscan	
1356	(54C)	ADDRESS	4	SX@PREDVDRN	"V(PREDVDRN)" General prescan to test device status	
1360	(550)	ADDRESS	4	SX@PRETRCDV	"V(PRETRCDV)" General prescan to verify SYSTEM authority from remote device	
1364	(554)	ADDRESS	4	SX@PREDRRC	"V(PREDRRC)" General ROUTECDE= prescan	
1368	(558)	ADDRESS	4	SX@PREFRRC	"V(PREFRRC)" General ROUTECDE= prescan	
1372	(55C)	ADDRESS	4	SX@PREMULRC	"V(PREMULRC)" Multiple route code prescan	
1376	(560)	ADDRESS	4	SX@PRERPRPU	"V(PRERPRPU)" Rn.PRn/Rn.PUn LRECL= presc	
1380	(564)	ADDRESS	4	SX@PSTRPRPU	"V(PSTRPRPU)" Rn.PRn/Rn.PUn LRECL= postsc	
1384	(568)	ADDRESS	4	SX@PSTCDCT	"V(PSTCDCT)" CDCT synch, all devices	
1388	(56C)	ADDRESS	4	SX@PSTCDCTO	"V(PSTCDCTO)" CDCT synch, offload devices	
1392	(570)	ADDRESS	4	SX@PSTCDCTS	"V(PSTCDCTS)" CDCT synch, MDCDTDCT chain is processed.	
1396	(574)	ADDRESS	4		Reserved for future use	
1400	(578)	ADDRESS	4		Reserved for future use	
1404	(57C)	ADDRESS	4		Reserved for future use	
1408	(580)	ADDRESS	4		Reserved for future use	
1412	(584)	ADDRESS	4		Reserved for future use	
1416	(588)	ADDRESS	4		Reserved for future use	
1420	(58C)	ADDRESS	4		Reserved for future use	
1424	(590)	ADDRESS	4		Reserved for future use	
1428	(594)	ADDRESS	4		Reserved for future use	
Comment						
Module HASPSXNJ exit routines						
End of Comment						
1432	(598)	ADDRESS	4	SX@PREAPPL	"V(PREAPPL)" APPL prescan	
1436	(59C)	ADDRESS	4	SX@PSTAPPL	"V(PSTAPPL)" APPL postscan	
1440	(5A0)	ADDRESS	4	SX@PREAPSTK	"V(PREAPSTK)" APPL CONNECT= time prescan	
1444	(5A4)	ADDRESS	4	SX@PRELDED	"V(PRELDED)" APPL/NODE/SOCKET LINE= prescan	
1448	(5A8)	ADDRESS	4	SX@PSTLDED	"V(PSTLDED)" APPL/NODE/SOCKET LINE= postscan	
1452	(5AC)	ADDRESS	4	SX@PREAPNOD	"V(PREAPNOD)" APPL/SOCKET NODE= prescan	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1456	(5B0)	ADDRESS	4	SX@PRECONCT	"V(PRECONCT)" CONNECT prescan
1460	(5B4)	ADDRESS	4	SX@PSTCONCT	"V(PSTCONCT)" CONNECT postscan
1464	(5B8)	ADDRESS	4	SX@PSTDCNCT	"V(PSTDCNCT)" CONNECT postscan
1468	(5BC)	ADDRESS	4	SX@PRECMEMB	"V(PRECMEMB)" CONNECT MEMBA/MEMBB prescan
1472	(5C0)	ADDRESS	4	SX@PRECNODE	"V(PRECNODE)" CONNECT NODEA/NODEB prescan
1476	(5C4)	ADDRESS	4	SX@PREFNODE	"V(PREFNODE)" CONNECT NODEA/NODEB prescan
1480	(5C8)	ADDRESS	4	SX@PREFNPM	"V(PREFNPM)" CONNECT PATHMGR= prescan
1484	(5CC)	ADDRESS	4	SX@PREDNPM	"V(PREDNPM)" CONNECT PATHMGR= prescan
1488	(5D0)	ADDRESS	4	SX@PREDCRST	"V(PREDCRST)" CONNECT REST= prescan
1492	(5D4)	ADDRESS	4	SX@PSTCSTAT	"V(PSTCSTAT)" CONNECT STATUS= postscan
1496	(5D8)	ADDRESS	4	SX@PREDESSEN	"V(PREDESSEN)" LINE/LOGON SESSIONS= prescan
1500	(5DC)	ADDRESS	4	SX@POSTNRM	"V(POSTNRM)" \$POST Net Resource Monitor
1504	(5E0)	ADDRESS	4	SX@PRESZNET	"V(PRESZNET)" \$\$/\$P/\$Z NET prescan
1508	(5E4)	ADDRESS	4	SX@PSTSNET	"V(PSTSNET)" \$\$/\$P/\$Z NET postscan
1512	(5E8)	ADDRESS	4	SX@PREDNET	"V(PREDNET)" NETACCT prescan
1516	(5EC)	ADDRESS	4	SX@PREPIDNT	"V(PREPIDNT)" NETACCT prescan
1520	(5F0)	ADDRESS	4	SX@PSTNETAC	"V(PSTNETAC)" NETACCT postscan
1524	(5F4)	ADDRESS	4	SX@PSTNRT	"V(PSTNRT)" NJEDEF postscan
1528	(5F8)	ADDRESS	4	SX@PSTNLM	"V(PSTNLM)" NJEDEF postscan
1532	(5FC)	ADDRESS	4	SX@PSTNJEC	"V(PSTNJEC)" NJEDEF CONNECT postscan
1536	(600)	ADDRESS	4	SX@PRENUM	"V(PRENUM)" NJEDEF NODENUM prescan
1540	(604)	ADDRESS	4	SX@PRENODE	"V(PRENODE)" NODE prescan
1544	(608)	ADDRESS	4	SX@PSTNODE	"V(PSTNODE)" NODE postscan
1548	(60C)	ADDRESS	4	SX@PRENACT	"V(PRENACT)" NODE NAME= prescan
1552	(610)	ADDRESS	4	SX@PRENDPAS	"V(PRENDPAS)" NODE PASSWORD= prescan
1556	(614)	ADDRESS	4	SX@PREDSPWD	"V(PREDSPWD)" NODE PASSWORD=SEND= prescan
1560	(618)	ADDRESS	4	SX@PRENODES	"V(PRENODES)" NODE STATUS= prescan
1564	(61C)	ADDRESS	4	SX@PRENDSTK	"V(PRENDSTK)" NODE CONNECT time prescan
1568	(620)	ADDRESS	4	SX@PSTNCHG	"V(PSTNCHG)" NODE ckpt'ed parm prescan
1572	(624)	ADDRESS	4	SX@PREPVIA	"V(PREPVIA)" PATH prescan
1576	(628)	ADDRESS	4	SX@PREPPATH	"V(PREPPATH)" PATH prescan
1580	(62C)	ADDRESS	4	SX@PREPSTAT	"V(PREPSTAT)" PATH STATUS= prescan
1584	(630)	ADDRESS	4	SX@PSTSOCK	"V(PSTSOCK)" SOCKET postscan
1588	(634)	ADDRESS	4	SX@PRESKSTK	"V(PRESKSTK)" SOCKET CONNECT time prescan
1592	(638)	ADDRESS	4	SX@PREDPWD	"V(PREDPSWD)" General PASSWORD= prescan
1596	(63C)	ADDRESS	4	SX@PREIPAD	"V(PREIPAD)" General prescan to convert 32-bit IP addresses
1600	(640)	ADDRESS	4	SX@PREFPATH	"V(PREFPATH)" General prescan to force full path analysis
1604	(644)	ADDRESS	4	SX@PRESHOST	"V(PRESHOST)" SOCKET HOST= prescanuse
1608	(648)	ADDRESS	4	SX@PRESOKID	"V(PRESOKID)" SOCKET SOCKID= prescan
1612	(64C)	ADDRESS	4	SX@PSTSOKST	"V(PSTSOKST)" SOCKET STATUS= postscan
1616	(650)	ADDRESS	4	SX@PRESOCK	"V(PRESOCK)" SOCKET prescan
1620	(654)	ADDRESS	4		Reserved for future use
1624	(658)	ADDRESS	4		Reserved for future use
1628	(65C)	ADDRESS	4		Reserved for future use
1632	(660)	ADDRESS	4		Reserved for future use
1636	(664)	ADDRESS	4		Reserved for future use
1640	(668)	ADDRESS	4		Reserved for future use
1644	(66C)	ADDRESS	4		Reserved for future use
1648	(670)	ADDRESS	4		Reserved for future use

Comment

Module HASPSXOT exit routines

End of Comment

1652	(674)	ADDRESS	4	SX@PREJOE	"V(PREJOE)" OUTPUT prescan
1656	(678)	ADDRESS	4	SX@PREJOAUP	"V(PREJOAUP)" OUTPUT UPDATE JOA prescan
1660	(67C)	ADDRESS	4	SX@CLNUPJOE	"V(CLNUPJOE)" OUTPUT cleanup routine
1664	(680)	ADDRESS	4	SX@PSTJODSP	"V(PSTJODSP)" OUTPUT postscan
1668	(684)	ADDRESS	4	SX@PREJOBSY	"V(PREJOBSY)" OUTPUT BUSY= prescan
1672	(688)	ADDRESS	4	SX@PREFOCLS	"V(PREFOCLS)" OUTPUT CLASS prescan
1676	(68C)	ADDRESS	4	SX@PREHLDRC	"V(PREHLDRC)" OUTPUT HOLDRC= prescan
1680	(690)	ADDRESS	4	SX@PREOTGRP	"V(PREOTGRP)" OUTPUT OUTGRP= prescan
1684	(694)	ADDRESS	4	SX@PREFOUTG	"V(PREFOUTG)" OUTPUT OUTGRP= prescan

## \$SXADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1688	(698)	ADDRESS	4	SX@PREODRDY	"V(PREODRDY)" OUTPUT READY/HELD prescan
1692	(69C)	ADDRESS	4	SX@PREJRCPG	"V(PREJRCPG)" OUTPUT RECORDS/PAGES prescan
1696	(6A0)	ADDRESS	4	SX@PREJDEST	"V(PREJDEST)" OUTPUT ROUTECDE= prescan
1700	(6A4)	ADDRESS	4	SX@PREJOERC	"V(PREJOERC)" OUTPUT ROUTECDE= prescan
1704	(6A8)	ADDRESS	4	SX@PREJOFRC	"V(PREJOFRC)" OUTPUT ROUTECDE= prescan
1708	(6AC)	ADDRESS	4	SX@PREJOSTA	"V(PREJOSTA)" OUTPUT STATUS= prescan
1712	(6B0)	ADDRESS	4	SX@PREJCKJO	"V(PREJCKJO)" OUTPUT keyword= prescan for char-JOE fields
1716	(6B4)	ADDRESS	4	SX@PREOJQX	"V(PREOJQX)" OUTPUT keyword= prescan for JQX fields
1720	(6B8)	ADDRESS	4	SX@PREJDMND	"V(PREJDMND)" OUTPUT keyword= prescan for demand select
1724	(6BC)	ADDRESS	4	SX@PREJQOFS	"V(PREJQOFS)" JOB OFFS= prescan
1728	(6C0)	ADDRESS	4	SX@PREJOOFS	"V(PREJOOFS)" OUTPUT OFFS= prescan
1732	(6C4)	ADDRESS	4	SX@PREJOFFS	"V(PREJOFFS)" JOB/OUTPUT OFFS= prescan
1736	(6C8)	ADDRESS	4	SX@PREFOFFS	"V(PREFOFFS)" JOB/OUTPUT OFFS= prescan
1740	(6CC)	ADDRESS	4	SX@PSTSOFFS	"V(PSTSOFFS)" JOB/OUTPUT OFFS= postscan
1744	(6D0)	ADDRESS	4	SX@PRE4STAR	"V(PRE4STAR)" OUTPUT keyword= prescan for '*****' value
1748	(6D4)	ADDRESS	4	SX@PSTSTMOD	"V(PSTSTMOD)" OUTPUT keyword= postscan JOEFLAGT bits (TMOD)
1752	(6D8)	ADDRESS	4	SX@PRELORDY	"V(PRELORDY)" \$LJ READY/HELD prescan
1756	(6DC)	ADDRESS	4	SX@PRELOTOT	"V(PRELOTOT)" \$LJ OUTGRPS prescan
1760	(6E0)	ADDRESS	4	SX@PRELOLP	"V(PRELOLP)" \$LJ RECORDS/PAGES prescan
1764	(6E4)	ADDRESS	4	SX@PREJLOCK	"V(PREJLOCK)" OUTPUT prescan for job lock
1768	(6E8)	ADDRESS	4	SX@PRENDEL	"V(PRENDEL)" Skip display on delete call
1772	(6EC)	ADDRESS	4		Reserved for future use
1776	(6F0)	ADDRESS	4		Reserved for future use
1780	(6F4)	ADDRESS	4		Reserved for future use
1784	(6F8)	ADDRESS	4		Reserved for future use
1788	(6FC)	ADDRESS	4		Reserved for future use
1792	(700)	ADDRESS	4		Reserved for future use
1796	(704)	ADDRESS	4		Reserved for future use
1800	(708)	ADDRESS	4		Reserved for future use
1804	(70C)	ADDRESS	4		Reserved for future use
1808	(710)	ADDRESS	4		Reserved for future use

Comment

Module HASPSXJB exit routines

End of Comment

1812	(714)	ADDRESS	4	SX@PREJCOR	"V(PREJCOR)" JOB JOBCORR= prescan
1816	(718)	ADDRESS	4	SX@PSTJCOR	"V(PSTJCOR)" JOB JOBCORR= postscan
1820	(71C)	ADDRESS	4	SX@PREJQE	"V(PREJQE)" JOB prescan
1824	(720)	ADDRESS	4	SX@PREJST	"V(PREJST)" JOB prescan
1828	(724)	ADDRESS	4	SX@PSTCFVQE	"V(PSTCFVQE)" JOB postscan
1832	(728)	ADDRESS	4	SX@PREJBDUP	"V(PREJBDUP)" JOB prescan
1836	(72C)	ADDRESS	4	SX@PREJQRDS	"V(PREJQRDS)" JOB prescan
1840	(730)	ADDRESS	4	SX@PSTJQDSP	"V(PSTJQDSP)" JOB postscan
1844	(734)	ADDRESS	4	SX@PREJQAUP	"V(PREJQAUP)" JOB update mode JQA prescan
1848	(738)	ADDRESS	4	SX@PREJQBSY	"V(PREJQBSY)" JOB BUSY= prescan
1852	(73C)	ADDRESS	4	SX@PREJABS	"V(PREJABS)" JOB CC=ABEND prescan
1856	(740)	ADDRESS	4	SX@PREJABU	"V(PREJABU)" JOB CC=ABEND prescan
1860	(744)	ADDRESS	4	SX@PSTJSCLS	"V(PSTJSCLS)" JOB CLASS= postscan
1864	(748)	ADDRESS	4	SX@PREJCLAS	"V(PREJCLAS)" JOB CLASS= prescan
1868	(74C)	ADDRESS	4	SX@PREDRNE	"V(PREDRNE)" JOB CMDAUTH= prescan
1872	(750)	ADDRESS	4	SX@PREDELAY	"V(PREDELAY)" JOB DELAY prescan
1876	(754)	ADDRESS	4	SX@PREJINIT	"V(PREJINIT)" JOB INITASID= prescan
1880	(758)	ADDRESS	4	SX@PREJQPRI	"V(PREJQPRI)" JOB PRIORITY= prescan
1884	(75C)	ADDRESS	4	SX@PREJPRIF	"V(PREJPRIF)" JOB PRIORITY= prescan
1888	(760)	ADDRESS	4	SX@PSTJQPRI	"V(PSTJQPRI)" JOB PRIORITY= postscan
1892	(764)	ADDRESS	4	SX@PSTPJQUE	"V(PSTPJQUE)" JOB Q= postscan routine
1896	(768)	ADDRESS	4	SX@PSTJEXFL	"V(PSTJEXFL)" JOB prescan for DUMP, PURGE, ARMRESTART, PROTECTED, etc.
1900	(76C)	ADDRESS	4	SX@PREJQEXQ	"V(PREJQEXQ)" JOB prescan for busy in XEQ

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1904	(770)	ADDRESS	4	SX@PREJQEPH	"V(PREJQEPH)" JOB prescan Queued pre HOPE
1908	(774)	ADDRESS	4	SX@PRESBYS	"V(PRESBYS)" JOB SECLABEL_AFF prescan
1912	(778)	ADDRESS	4	SX@PREJTGP	"V(PREJTGP)" JOB SPOOL=PERCENT= prescan
1916	(77C)	ADDRESS	4	SX@PREFTGP	"V(PREFTGP)" JOB SPOOL=PERCENT= prescan
1920	(780)	ADDRESS	4	SX@PREJTGN	"V(PREJTGN)" JOB SPOOL=TGS= prescan
1924	(784)	ADDRESS	4	SX@PREDJVOL	"V(PREDJVOL)" JOB SPOOL=VOLUMES= prescan
1928	(788)	ADDRESS	4	SX@PREFJVOL	"V(PREFJVOL)" JOB SPOOL=VOLUMES= prescan
1932	(78C)	ADDRESS	4	SX@PREJDSC	"V(PREJDSC)" JOB SRVCLASS= prescan \$D
1936	(790)	ADDRESS	4	SX@PSTJSRVC	"V(PSTJSRVC)" JOB SRVCLASS= postscan \$T
1940	(794)	ADDRESS	4	SX@PREJSTAT	"V(PREJSTAT)" JOB STATUS= prescan
1944	(798)	ADDRESS	4	SX@PREDJSAF	"V(PREDJSAF)" JOB SYSAFF prescan
1948	(79C)	ADDRESS	4	SX@PREFJSAF	"V(PREFJSAF)" JOB SYSAFF prescan
1952	(7A0)	ADDRESS	4	SX@PRESJSAF	"V(PRESJSAF)" JOB SYSAFF prescan
1956	(7A4)	ADDRESS	4	SX@PSTSJSAF	"V(PSTSJSAF)" JOB SYSAFF postscan
1960	(7A8)	ADDRESS	4	SX@CLNUPJQE	"V(CLNUPJQE)" JOB JQE cleanup routine
1964	(7AC)	ADDRESS	4	SX@PSTJSCHE	"V(PSTJSCHE)" JOB SCHENV= postscan
1968	(7B0)	ADDRESS	4	SX@PSTJQASC	"V(PSTJQASC)" JOB SCHENV= postscan
1972	(7B4)	ADDRESS	4	SX@PREJHOLD	"V(PREJHOLD)" JOB Hold prescan
1976	(7B8)	ADDRESS	4	SX@PRECATAF	"V(PRECATAF)" JOBCLASS QAFF= prescan
1980	(7BC)	ADDRESS	4	SX@PRECATA2	"V(PRECATA2)" JOBCLASS QAFF= prescan
1984	(7C0)	ADDRESS	4	SX@PRECAPAF	"V(PRECAPAF)" JOBCLASS QAFF= prescan
1988	(7C4)	ADDRESS	4	SX@PSTWSC	"V(PSTWSC)" SRVCLASS postscan
1992	(7C8)	ADDRESS	4	SX@PREWSCA2	"V(PREWSCA2)" SRVCLASS QAFF= prescan
1996	(7CC)	ADDRESS	4	SX@PREWSCAF	"V(PREWSCAF)" SRVCLASS QAFF= prescan
2000	(7D0)	ADDRESS	4	SX@PSTWQAFF	"V(PSTWQAFF)" SRVCLASS pscan for QAFF
2004	(7D4)	ADDRESS	4	SX@PSTWTYPE	"V(PSTWTYPE)" SRVCLASS TYPE= postscan
2008	(7D8)	ADDRESS	4	SX@PREWSCCO	"V(PREWSCCO)" SRVCLASS COUNT= prescan
2012	(7DC)	ADDRESS	4	SX@PREWSCCT	"V(PREWSCCT)" SRVCLASS COUNT= prescan
2016	(7E0)	ADDRESS	4	SX@PREWSCMC	"V(PREWSCMC)" SRVCLASS MASCOUNT= prescan
2020	(7E4)	ADDRESS	4	SX@CLNUPWSC	"V(CLNUPWSC)" SRVCLASS cleanup routine
2024	(7E8)	ADDRESS	4	SX@PRESRPAF	"V(PRESRPAF)" SRVCLASS ACTIVE= prescan
2028	(7EC)	ADDRESS	4		Reserved for future use
2032	(7F0)	ADDRESS	4		Reserved for future use
2036	(7F4)	ADDRESS	4		Reserved for future use
2040	(7F8)	ADDRESS	4		Reserved for future use
2044	(7FC)	ADDRESS	4		Reserved for future use
2048	(800)	ADDRESS	4		Reserved for future use
2052	(804)	ADDRESS	4		Reserved for future use
2056	(808)	ADDRESS	4		Reserved for future use
2060	(80C)	ADDRESS	4		Reserved for future use

Comment

Module HASPCSV exit routines

End of Comment

2064	(810)	ADDRESS	4	SX@PRELOAD	"V(PRELOAD)" LOADMOD prescan
2068	(814)	ADDRESS	4	SX@PSTLOAD	"V(PSTLOAD)" LOADMOD postscan
2072	(818)	ADDRESS	4	SX@PREDMOD	"V(PREDMOD)" MODULE prescan
2076	(81C)	ADDRESS	4	SX@PREDMODX	"V(PREDMODX)" MODULE EXITPTS= prescan
2080	(820)	ADDRESS	4	SX@PRELOADR	"V(PRELOADR)" MODULE/LOADMOD ROUTINES= prescan
2084	(824)	ADDRESS	4	SX@PRELOADT	"V(PRELOADT)" MODULE/LOADMOD TABLES= prescan
2088	(828)	ADDRESS	4	SX@PRELOADF	"V(PRELOADF)" MODULE ROUTINES= prescan
2092	(82C)	ADDRESS	4	SX@PREPTF	"V(PREPTF)" MODULE LASTPTF= prescan
2096	(830)	ADDRESS	4		Reserved for future use
2100	(834)	ADDRESS	4		Reserved for future use
2104	(838)	ADDRESS	4		Reserved for future use
2108	(83C)	ADDRESS	4		Reserved for future use
2112	(840)	ADDRESS	4		Reserved for future use
2116	(844)	ADDRESS	4		Reserved for future use
2120	(848)	ADDRESS	4		Reserved for future use
2124	(84C)	ADDRESS	4		Reserved for future use
2128	(850)	ADDRESS	4		Reserved for future use
2132	(854)	ADDRESS	4		Reserved for future use

## \$SXADDR Cross Reference

Offsets		Type/Value	Len	Name (Dim)	Description
Dec	Hex				
Comment					
Module HASPMSG exit routines					
End of Comment					
2136	(858)	ADDRESS	4	SX@PRE496KY	"V(PRE496KY)" \$HASP496 KEYWORD prescan
2140	(85C)	ADDRESS	4	SX@PRE536	"V(PRE536)" \$HASP536 prescan
2144	(860)	ADDRESS	4	SX@PRE542	"V(PRE542)" \$HASP542 prescan
2148	(864)	ADDRESS	4	SX@PREACTM	"V(PREACTM)" General active member list display prescan
2152	(868)	ADDRESS	4	SX@PREMCKPT	"V(PREMCKPT)" General routine to format checkpoint data set or structure name
2156	(86C)	ADDRESS	4	SX@MSG607TX	"V(MSG607TX)" \$HASP607 prescan
2160	(870)	ADDRESS	4		Reserved for future use
2164	(874)	ADDRESS	4		Reserved for future use
2168	(878)	ADDRESS	4		Reserved for future use
2172	(87C)	ADDRESS	4		Reserved for future use
2176	(880)	ADDRESS	4		Reserved for future use
2180	(884)	ADDRESS	4		Reserved for future use
2184	(888)	ADDRESS	4		Reserved for future use
2188	(88C)	ADDRESS	4		Reserved for future use
2192	(890)	ADDRESS	4		Reserved for future use
2192	(890)	X'894'	0	SXADDRLN	"*-SXADDR" Length of the SXADDR table

## \$SXADDR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SX@CLNUPJOE	67C		SX@PRECLGCT	60	
SX@CLNUPJQE	7A8		SX@PRECLSGP	58	
SX@CLNUPPAD	434		SX@PRECMDR	25C	
SX@CLNUPPRW	C0		SX@PRECMEMB	5BC	
SX@CLNUPWSC	7E4		SX@PRECNODE	5C0	
SX@CVLDRAIN	274		SX@PRECONCT	5B0	
SX@MSG607TX	86C		SX@PRECYLDS	2BC	
SX@PFSQFREE	474		SX@PREDAUTH	11C	
SX@PFSQUERY	470		SX@PREDBADT	8	
SX@POSTNRM	5DC		SX@PREDCHAR	6C	
SX@PREABSTR	2B0		SX@PREDCOMP	64	
SX@PREACMEM	3AC		SX@PREDCRST	5D0	
SX@PREACTAS	EC		SX@PREDDVJB	520	
SX@PREACTIV	344		SX@PREDDVRC	524	
SX@PREACTM	864		SX@PREDELAY	750	
SX@PREACTSZ	340		SX@PREDEMEM	198	
SX@PREANETW	F0		SX@PREDESI	8C	
SX@PREAPCE	E8		SX@PREDEST	88	
SX@PREAPNOD	5AC		SX@PREDEVDR	484	
SX@PREAPPL	598		SX@PREDEVID	384	
SX@PREAPSTK	5A0		SX@PREDEVNM	10C	
SX@PREATTR	288		SX@PREDFLNO	440	
SX@PREAUTH	120		SX@PREDFSS	458	
SX@PREBRNUM	50		SX@PREDIL	110	
SX@PREBRTUS	54		SX@PREDJSAF	798	
SX@PRECAPAF	7C0		SX@PREDJVOL	784	
SX@PRECAT	320		SX@PREDMOD	818	
SX@PRECATAF	7B8		SX@PREDMODX	81C	
SX@PRECATA2	7BC		SX@PREDNEGZ	314	
SX@PRECATI	324		SX@PREDNET	5E8	
SX@PRECATTS	328		SX@PREDNOCB	318	
SX@PRECKLEV	31C		SX@PREDNPM	5CC	
SX@PRECKPT	1C		SX@PREDPRMD	4F8	
SX@PRECKPTN	20		SX@PREDPSTD	638	
SX@PRECKPTT	19C		SX@PREDPZPT	4C4	
SX@PRECKVRS	24		SX@PREQST	180	



Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SX@PREDRC	514		SX@PREJESLS	148	
SX@PREDRNE	74C		SX@PREJHOLD	7B4	
SX@PREDRNG	508		SX@PREJINIT	754	
SX@PREDRRC	554		SX@PREJLOCK	6E4	
SX@PREDRSAF	528		SX@PREJOAUP	678	
SX@PREDRSVD	2AC		SX@PREJOBSY	684	
SX@PREDSAF	41C		SX@PREJOE	674	
SX@PREDSAFI	338		SX@PREJOERC	6A4	
SX@PREDSBEX	A4		SX@PREJOEUS	1A8	
SX@PREDSESN	5D8		SX@PREJOFFS	6C4	
SX@PREDSID	18C		SX@PREJOFRC	6A8	
SX@PREDSLCT	4AC		SX@PREJOOFS	6C0	
SX@PREDSLIM	1A4		SX@PREJOSTA	6AC	
SX@PREDSPWD	614		SX@PREJPRIF	75C	
SX@PREDSAAF	278		SX@PREJQAUP	734	
SX@PREDSSI	2DC		SX@PREJQBSY	738	
SX@PREDSTAT	51C		SX@PREJQE	71C	
SX@PREDSTS	28C		SX@PREJQEPH	770	
SX@PREDUSEC	26C		SX@PREJQEXQ	76C	
SX@PREDUSEP	270		SX@PREJQOFS	6BC	
SX@PREDVDRN	54C		SX@PREJQPRI	758	
SX@PREDVSTK	50C		SX@PREJQRDS	72C	
SX@PREDW	540		SX@PREJRBLD	160	
SX@PREEOMCT	100		SX@PREJRCPG	69C	
SX@PREEVDUR	208		SX@PREJST	720	
SX@PREEXIT	98		SX@PREJSTAT	794	
SX@PREEXRTN	A0		SX@PREJTGN	780	
SX@PREFFCHK	37C		SX@PREJTGP	778	
SX@PREFJSAF	79C		SX@PRELDED	5A4	
SX@PREFJVOL	788		SX@PRELDEV	3B8	
SX@PREFLHOT	380		SX@PRELDFLT	3D0	
SX@PREFNODE	5C4		SX@PRELDNDE	3D4	
SX@PREFNPM	5C8		SX@PRELDVL	3B4	
SX@PREFOCLS	688		SX@PRELFNDE	3D8	
SX@PREFOFFS	6C8		SX@PRELIMIT	304	
SX@PREFOUTG	694		SX@PRELINE	3C0	
SX@PREFPATH	640		SX@PRELINST	3EC	
SX@PREFPRMD	4FC		SX@PRELNERS	3E8	
SX@PREFRC	518		SX@PRELNSTK	3CC	
SX@PREFRRC	558		SX@PRELOAD	810	
SX@PREFSPAF	280		SX@PRELOADF	828	
SX@PREFSSDF	AC		SX@PRELOADR	820	
SX@PREFTGP	77C		SX@PRELOADT	824	
SX@PREHLDRC	68C		SX@PRELOLP	6E0	
SX@PREHOTS	310		SX@PRELORDY	6D8	
SX@PREHPCE	F4		SX@PRELOTOT	6DC	
SX@PREINCL	B4		SX@PRELSFRM	460	
SX@PREINECL	DC		SX@PREMCKPT	868	
SX@PREINIT	C4		SX@PREMDEFD	184	
SX@PREIPAD	63C		SX@PREMESYS	170	
SX@PREIREA	F8		SX@PREMIGDA	2A4	
SX@PREISPOL	264		SX@PREMPERC	2A8	
SX@PREISPSF	27C		SX@PREMSNM	1A0	
SX@PREISTC	33C		SX@PREMULFM	4E8	
SX@PREJABS	73C		SX@PREMULRC	55C	
SX@PREJABU	740		SX@PRENACT	60C	
SX@PREJBDUP	728		SX@PRENDDEL	6E8	
SX@PREJCKJO	6B0		SX@PRENDPAS	610	
SX@PREJCLAS	748		SX@PRENDSTK	61C	
SX@PREJCLMD	360		SX@PRENIPRT	478	
SX@PREJCOR	714		SX@PRENNUM	600	
SX@PREJDEST	6A0		SX@PRENODE	604	
SX@PREJDMND	6B8		SX@PRENODES	618	
SX@PREJDSC	78C		SX@PRENULL	2FC	
SX@PREJESLD	14C		SX@PREODRDY	698	

## \$SXADDR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SX@PREOFFCL	424		SX@PRESNIFF	370	
SX@PREOGDJC	130		SX@PRESOCK	650	
SX@PREOGDOC	1DC		SX@PRESOKID	648	
SX@PREOGDOS	1D4		SX@PRESPM	114	
SX@PREOGDSR	40C		SX@PRESPOOL	260	
SX@PREOGDST	414		SX@PRESPST	298	
SX@PREOJQX	6B4		SX@PRESRPAF	7E8	
SX@PREOPACT	488		SX@PRESVSES	3FC	
SX@PREOTGRP	690		SX@PRESZNET	5E0	
SX@PREOUTJX	1AC		SX@PRETRDFID	2F0	
SX@PREPCEDJ	1F8		SX@PRETRCDV	550	
SX@PREPCEDN	1F0		SX@PRETRCID	2F4	
SX@PREPCEDT	1EC		SX@PREUNIT	538	
SX@PREPCEFW	1FC		SX@PREVOLT	40	
SX@PREPCETB	1E4		SX@PREVTRC	3E4	
SX@PREPCEWF	1F4		SX@PREWAITP	21C	
SX@PREPDRPT	22C		SX@PREWSC	234	
SX@PREPDSRV	230		SX@PREWSCA	238	
SX@PREPIDNT	5EC		SX@PREWSCAF	7CC	
SX@PREPIFNL	47C		SX@PREWSCA2	7C8	
SX@PREPITCL	D0		SX@PREWSCCO	7D8	
SX@PREPITRS	334		SX@PREWSCCT	7DC	
SX@PREPMODE	464		SX@PREWSCMC	7E0	
SX@PREPPATH	628		SX@PREXMEMB	FC	
SX@PREPRFDT	248		SX@PREXWA	1B0	
SX@PREPRFFL	214		SX@PREZAPJB	354	
SX@PREPRFNL	210		SX@PREZPSEQ	388	
SX@PREPRFPA	224		SX@PREZRCHK	378	
SX@PREPRFPC	20C		SX@PRE4STAR	6D0	
SX@PREPRFPS	218		SX@PRE496KY	858	
SX@PREPRFQA	228		SX@PRE536	85C	
SX@PREPRFRS	200		SX@PRE542	860	
SX@PREPRFSU	204		SX@PRE608	E4	
SX@PREPRFWA	220		SX@PRPRESET	480	
SX@PREPRFZR	244		SX@PSTACTIV	348	
SX@PREPROCL	42C		SX@PSTADDR	10	
SX@PREPRT	438		SX@PSTAPPL	59C	
SX@PREPSJB	CC		SX@PSTBADTR	C	
SX@PREPSOCT	104		SX@PSTBUF	14	
SX@PREPSTAT	62C		SX@PSTCAT	13C	
SX@PREPTF	82C		SX@PSTCATI	140	
SX@PREPTVCL	D4		SX@PSTCATNW	144	
SX@PREPVIA	624		SX@PSTCATSC	34C	
SX@PREQSUSE	30C		SX@PSTCDCT	568	
SX@PRERDEST	500		SX@PSTCDCTO	56C	
SX@PRERDEV	4A0		SX@PSTCDCTS	570	
SX@PRERDSTM	254		SX@PSTCF	3C	
SX@PRERDVAU	4A4		SX@PSTCFVQE	724	
SX@PREREGN	134		SX@PSTCGROP	330	
SX@PRERHELD	178		SX@PSTCHARS	18	
SX@PRERMT	4C8		SX@PSTCKLCK	48	
SX@PRERMTP	4D8		SX@PSTCKMOD	44	
SX@PRERMTRC	4BC		SX@PSTCKPSP	4C	
SX@PRERMESH	4DC		SX@PSTCKPT	28	
SX@PRERMST	4E4		SX@PSTCKPTN	2C	
SX@PRERNG	504		SX@PSTCKVOL	38	
SX@PRERPRPU	560		SX@PSTCKVRS	30	
SX@PRERPZPT	4C0		SX@PSTCLASV	D8	
SX@PRESAPCT	108		SX@PSTCLSGP	5C	
SX@PRESBYS	774		SX@PSTCMB	70	
SX@PRESDFRE	2D0		SX@PSTCNCHR	78	
SX@PRESDPCT	2D4		SX@PSTCOMP	68	
SX@PRESHOST	644		SX@PSTCONCT	5B4	
SX@PRESJSAF	7A0		SX@PSTCSCHE	350	
SX@PRESKSTK	634		SX@PSTCSTAT	5D4	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SX@PSTCYLDS	2C0		SX@PSTNJEC	5FC	
SX@PSTDCNCT	5B8		SX@PSTNLM	5F8	
SX@PSTDDFCB	448		SX@PSTNODE	608	
SX@PSTDEBUG	84		SX@PSTNOTAB	2EC	
SX@PSTDESI	90		SX@PSTNRT	5F4	
SX@PSTDEVST	118		SX@PSTNTRSS	408	
SX@PSTDFCB	450		SX@PSTNTRST	404	
SX@PSTDSBEX	A8		SX@PSTOARCH	428	
SX@PSTDSN	34		SX@PSTOGDJC	12C	
SX@PSTDUCS	46C		SX@PSTOGDOC	1E0	
SX@PSTDUPL	16C		SX@PSTOGDOS	1D8	
SX@PSTDUPLC	150		SX@PSTOUTDF	1B8	
SX@PSTDWRKQ	290		SX@PSTOUTJX	1C0	
SX@PSTEMEM	194		SX@PSTOUTSO	1BC	
SX@PSTEST	94		SX@PSTPCETB	1E8	
SX@PSTEXIT	9C		SX@PSTPJQUE	764	
SX@PSTFEN	2B8		SX@PSTPMEM	36C	
SX@PSTFENO	2C8		SX@PSTPRDFL	444	
SX@PSTFSNSP	490		SX@PSTPREFIX	74	
SX@PSTFSADF	B0		SX@PSTPRFCB	44C	
SX@PSTFSSET	494		SX@PSTPRFLS	454	
SX@PSTFSUPD	48C		SX@PSTPRMD	4F4	
SX@PSTFSYNC	498		SX@PSTPROCL	430	
SX@PSTHOLD	17C		SX@PSTPRT	43C	
SX@PSTHPRM	368		SX@PSTPRTDF	24C	
SX@PSTINCDS	BC		SX@PSTPRTY	168	
SX@PSTINCL	B8		SX@PSTPRUCS	468	
SX@PSTINIT	C8		SX@PSTPRYO	1C8	
SX@PSTIRTRC	3B0		SX@PSTPUN	49C	
SX@PSTJBJNC	158		SX@PSTQHPST	124	
SX@PSTJBNUM	15C		SX@PSTRC	510	
SX@PSTJCLMD	364		SX@PSTRDCHR	7C	
SX@PSTJCOR	718		SX@PSTRDEV	4B8	
SX@PSTJEXFL	768		SX@PSTRDSTM	258	
SX@PSTJOBCL	E0		SX@PSTRDVCM	4B0	
SX@PSTJOBDF	154		SX@PSTRDVCO	4B4	
SX@PSTJOBNM	4F0		SX@PSTRECV	250	
SX@PSTJODSP	680		SX@PSTREGN	138	
SX@PSTJONUM	1C4		SX@PSTRMT	4CC	
SX@PSTJQASC	7B0		SX@PSTRMTA	4D0	
SX@PSTJQDSP	730		SX@PSTRMTLN	4D4	
SX@PSTJQPRI	760		SX@PSTRMTSH	4E0	
SX@PSTJQPST	128		SX@PSTROPT	1CC	
SX@PSTJRNG	164		SX@PSTRPRPU	564	
SX@PSTJSCH	7AC		SX@PSTSAF	420	
SX@PSTJSCLS	744		SX@PSTSCOPE	80	
SX@PSTJSRVC	790		SX@PSTSEGLM	1D0	
SX@PSTLDED	5A8		SX@PSTSELECT	4A8	
SX@PSTLDSR	1B4		SX@PSTSFSS	45C	
SX@PSTLGNA	3F4		SX@PSTSICE	2E4	
SX@PSTLIMIT	308		SX@PSTSJSAF	7A4	
SX@PSTLIM1	300		SX@PSTSNAM	188	
SX@PSTLINE	3C4		SX@PSTSNIFF	374	
SX@PSTLINEA	3C8		SX@PSTSOCK	630	
SX@PSTLINST	3F0		SX@PSTSOFFS	6CC	
SX@PSTLOAD	814		SX@PSTSOKST	64C	
SX@PSTLSPIN	2E8		SX@PSTSPDSN	284	
SX@PSTLTRSS	3E0		SX@PSTSPDVL	2D8	
SX@PSTLTRST	3DC		SX@PSTSPL	2C4	
SX@PSTMDRC	410		SX@PSTSPLDF	2B4	
SX@PSTMDSAF	418		SX@PSTSPLDS	2CC	
SX@PSTMESYS	174		SX@PSTSPool	268	
SX@PSTMIND	190		SX@PSTSPSAF	294	
SX@PSTNCHG	620		SX@PSTSPSTX	29C	
SX@PSTNETAC	5F0		SX@PSTSPTAR	2A0	

## \$SXADDR Cross Reference

Name	Hex Offset	Hex Value
SX@PSTSRSAF	52C	
SX@PSTSRSF2	530	
SX@PSTSRVA	3F8	
SX@PSTSTMOD	6D4	
SX@PSTSVSCK	400	
SX@PSTSZNET	5E4	
SX@PSTTP	2E0	
SX@PSTTRANS	3BC	
SX@PSTTRCDV	548	
SX@PSTTRFLT	2F8	
SX@PSTUNIT	534	
SX@PSTVJBID	35C	
SX@PSTVOL	53C	
SX@PSTWFORM	4EC	
SX@PSTWQAFF	7D0	
SX@PSTWS	544	
SX@PSTWSC	7C4	
SX@PSTWSCA	23C	
SX@PSTWSCB	240	
SX@PSTWTYPE	7D4	
SX@PSTZAPJB	358	
SXADDR	0	
SXADDRID	0	E2E7C1C4
SXADDRLN	890	894
SXADDRV	4	
SXADDRVN	4	1

## \$SYMCB Information

### \$SYMCB Heading Information

**Common Name:** \$SYMREC main control block  
**Macro ID:** \$SYMCB  
**DSECT Name:** SYM  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'SYM '  
 Offset: SYMID-SYM  
 Length: 4  
**Storage Attributes:** Subpool: 0  
 Key: 0  
 Residency: Virtual and real storage are anywhere (above or below the 16M line).  
**Size:** See SYMLEN  
**Created by:** \$SYMREC service  
**Pointed to by:** N/A  
**Serialization:** None.  
**Function:** This control block contains a work area for the \$SYMREC service followed by the space for a maximum size symptom record

### \$SYMCB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SYM	
0	(0)	CHARACTER	4	SYMID	Control block ID
4	(4)	ADDRESS	1	SYMLEVEL	Control block version
		.... ..1.		SYMVERSN	"X'02" Control block version EQU
5	(5)	BITSTRING	1	SYMFLAG1	SYMREC control flags
		1... ....		SYM1NMSG	"B'10000000" Suppress DEBUG message
6	(6)	BITSTRING	2		RESERVED

Comment

Table of addresses of control blocks defined by CBDEFs

End of Comment

8	(8)	ADDRESS	4	SYMCB1	Control block #1 address
12	(C)	ADDRESS	4	SYMCB2	Control block #2 address
16	(10)	ADDRESS	4	SYMCB3	Control block #3 address
20	(14)	ADDRESS	4	SYMCB4	Control block #4 address
24	(18)	ADDRESS	4	SYMCB5	Control block #5 address
28	(1C)	ADDRESS	4	SYMCB6	Control block #6 address
32	(20)	ADDRESS	4	SYMCB7	Control block #7 address
36	(24)	ADDRESS	4	SYMCB8	Control block #8 address
40	(28)	ADDRESS	4	SYMCB9	Control block #9 address
44	(2C)	ADDRESS	4	SYMCB10	Control block #10 address
48	(30)	ADDRESS	4	SYMCBBAS	Address of base control block

Comment

Registers R2-R13 that were current when the \$SYMREC macro was invoked.

End of Comment

52	(34)	SIGNED	4	SYMCLR2	Callers register 2 data
56	(38)	SIGNED	4	SYMCLR3	Callers register 3 data
60	(3C)	SIGNED	4	SYMCLR4	Callers register 4 data

## \$SYMCB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
64	(40)	SIGNED	4	SYMCLR5	Callers register 5 data
68	(44)	SIGNED	4	SYMCLR6	Callers register 6 data
72	(48)	SIGNED	4	SYMCLR7	Callers register 7 data
76	(4C)	SIGNED	4	SYMCLR8	Callers register 8 data
80	(50)	SIGNED	4	SYMCLR9	Callers register 9 data
84	(54)	SIGNED	4	SYMCLR10	Callers register 10 data
88	(58)	SIGNED	4	SYMCLR11	Callers register 11 data
92	(5C)	SIGNED	4	SYMCLR12	Callers register 12 data
96	(60)	SIGNED	4	SYMCLR13	Callers register 13 data

Comment

Bits set by the TYPE=COND keyword of the \$SYMTAB macro

End of Comment

100	(64)	BITSTRING	1	SYMBYTE1	Condition byte 1 (bits 1-8)
101	(65)	BITSTRING	1	SYMBYTE2	Condition byte 2 (bits 9-16)
102	(66)	BITSTRING	2		Reserved for future use
104	(68)	ADDRESS	4	SYMCURP	Current data pointer
108	(6C)	ADDRESS	4	SYMSTRTP	Pointer to start of current section
112	(70)	DBL WORD	8	SYMGWORK (0)	General work area
112	(70)	SIGNED	4	SYMHEXP (0)	Parm list for HEXCNVT
112	(70)	ADDRESS	4	SYMHEXPI	+0 address of input area
116	(74)	ADDRESS	4	SYMHEXPO	+4 address of output area
120	(78)	SIGNED	2	SYMHEXPL	+8 Length of input area
122	(7A)	BITSTRING	10		+10 Work area for convert
112	(70)	DBL WORD	8	SYMDWORK	Work area for CVD
120	(78)	BITSTRING	12	SYMWORK2	Work area for edit instruction

Comment

MACDATE = 06/12/85

End of Comment

112	(70)	SIGNED	4	(0)	ALIGN THE LIST TO WORD BOUNDARY
112	(70)	CHARACTER	16	SYMRECL (0)	
112	(70)	BITSTRING	1	ASR1364L	LEVEL AND VERSION OF SYMREC MACRO
113	(71)	BITSTRING	3	ASR1364O	RESERVED
116	(74)	ADDRESS	4	ASR1364S	ADDRESS OF SYMPTOM RECORD
120	(78)	BITSTRING	8	ASR1364R	RESERVED
112	(70)	SIGNED	4	SYMMAP (0)	MODMAP-STYLE ENTRY
132	(84)	ADDRESS	4	SYMCNVTH	Address of convert routine to HEX

Comment

Actual symptom record

End of Comment

136	(88)	BITSTRING	1900	SYMSYMR	Symptom record storage
136	(88)	X'D0'	0	SYMLEN3	"SYMSYMR+ADSRDBL-ADSR" Length of section 3
136	(88)	X'D2'	0	SYMOFF3	"SYMSYMR+ADSRDBO-ADSR" Offset to section 3
136	(88)	X'D4'	0	SYMLEN4	"SYMSYMR+ADSRROSL-ADSR" Length of section 4
136	(88)	X'D6'	0	SYMOFF4	"SYMSYMR+ADSRROSA-ADSR" Offset to section 4
136	(88)	X'D8'	0	SYMLEN5	"SYMSYMR+ADSRRONL-ADSR" Length of section 5
136	(88)	X'DA'	0	SYMOFF5	"SYMSYMR+ADSRRONA-ADSR" Offset to section 5
2036	(7F4)	BITSTRING	1	SYMSYME (0)	End of symptom record

Comment

Text for DEBUG WTO

End of Comment

2036	(7F4)	BITSTRING	120	SYMCBMSG	Work area for WTO text
2160	(870)	DBL WORD	8	(0)	Ensure Double Word length

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2160	(870)	X'870'	0	SYMLEN	** -SYM" Length of storage
Comment					

Equates for SYMPTOM keys in section 5. Certain key ranges have specific meanings. The following table describes the defined ranges:

Key range User category and data type

- 
- 0001-00FF Reserved
- 0100-0FFF MVS System programs
- 1000-18FF VM System programs
- 1900-1FFF DOS/VSE System programs
- 2000-BFFF Reserved
- C900-CFFF Program products and non-printable HEX data
- D000-DFFF Program products and printable EBCDIC data
- E900-EFFF Reserved
- F000 Any program and printable EBCDIC
- F001-F0FF Not assigned
- F100-FEFF Reserved
- FF00 Any program and non-printable EBCDIC data
- FF01-FFFF Not assigned
- JES2 uses keys in the 0100-0FFF range

End of Comment

2160	(870)	BITSTRING	0	SYKBUFF	"X'0100" Buffer contents
2160	(870)	BITSTRING	0	SYKJQE	"X'0101" JQE contents
2160	(870)	BITSTRING	0	SYKJCT	"X'0102" JCT contents
2160	(870)	BITSTRING	0	SYKNCC	"X'0103" NCC record
2160	(870)	BITSTRING	0	SYKNLQ	"X'0104" NTQ contents
2160	(870)	BITSTRING	0	SYKSWBM	"X'0105" SJF SJSMP (SWBTU_MERGE) contents
2160	(870)	BITSTRING	0	SYKSJSP	"X'0106" SJF SJTSP (SWBTUREQ SPLIT)
2160	(870)	BITSTRING	0	SYKSMSU	"X'0107" SWB Modify Subtask parms
2160	(870)	BITSTRING	0	SYKNMR	"X'0108" NMR CONTENTS
2160	(870)	BITSTRING	0	SYKWTOPL	"X'0109" \$WTO PARM LIST CONTENTS
2160	(870)	BITSTRING	0	SYKNJH	"X'010A" Network Header contents
2160	(870)	BITSTRING	0	SYKSMF	"X'010B" SMF \$CPOOL info
2160	(870)	BITSTRING	0	SYKX15	"X'010C" Exit 15 parm list
2160	(870)	BITSTRING	0	SYKMQT	"X'010D" MQT for SPOOL management
2160	(870)	BITSTRING	0	SYKSIGE	"X'010E" Expected signature record
2160	(870)	BITSTRING	0	SYKSIGA	"X'010F" Actual signature record
2160	(870)	BITSTRING	0	SYKF256	"X'0110" First 256 bytes of first block of failing trkgrp
2160	(870)	BITSTRING	0	SYKICE	"X'0111" ICE contents
2160	(870)	BITSTRING	0	SYKICEAD	"X'0112" ICE address
2160	(870)	BITSTRING	0	SYKBERT	"X'0113" BERT data
2160	(870)	BITSTRING	0	SYKBRTAD	"X'0114" BERT address
2160	(870)	BITSTRING	0	SYKPPD	"X'0115" DD name of dataset
2160	(870)	BITSTRING	0	SYKPCNT	"X'0116" Job total counts
2160	(870)	BITSTRING	0	SYKJQEO	"X'0117" JQE contents of signature record JQE
2160	(870)	BITSTRING	0	SYKMTR	"X'0118" MTTR associated with error
2160	(870)	BITSTRING	0	SYKNJET	"X'0119" \$NJETRC trace table
2160	(870)	BITSTRING	0	SYKMQTR	"X'011A" MQTR associated with error
2160	(870)	BITSTRING	0	SYKSJOB	"X'011B" SJJOB associated with error
2160	(870)	BITSTRING	0	SYKDAS	"X'011C" DAS associated with error
2160	(870)	BITSTRING	0	SYKDASTR	"X'011D" Target DAS if SPOOL migr
2160	(870)	BITSTRING	0	SYKPSV	"X'011E" PSV format save area
2160	(870)	BITSTRING	0	SYKPSVAR	"X'011F" PSV format AR save area

## \$SYMCB Cross Reference

## \$SYMCB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ASR1364L	70	1	SYMCNVTH	84	
ASR1364O	71	0	SYMCURP	68	
ASR1364R	78	0	SYMDWORK	70	
ASR1364S	74		SYMFLAG1	5	
SYKBERT	870	113	SYMGWORK	70	
SYKBRTAD	870	114	SYMHEXP	70	
SYKBUFF	870	100	SYMHEXPI	70	
SYKDAS	870	11C	SYMHEXPL	78	
SYKDASTR	870	11D	SYMHEXPO	74	
SYKF256	870	110	SYMID	0	E2E8D440
SYKICE	870	111	SYMLEN	870	870
SYKICEAD	870	112	SYMLEN3	88	D0
SYKJCT	870	102	SYMLEN4	88	D4
SYKJQE	870	101	SYMLEN5	88	D8
SYKJQEO	870	117	SYMLEVEL	4	
SYKMQT	870	10D	SYMMAP	70	
SYKMQTR	870	11A	SYMOFF3	88	D2
SYKMTR	870	118	SYMOFF4	88	D6
SYKNCC	870	103	SYMOFF5	88	DA
SYKNJET	870	119	SYMRECL	70	
SYKNJH	870	10A	SYMSTRTP	6C	
SYKNMR	870	108	SYMSYME	7F4	
SYKNTQ	870	104	SYMSYMR	88	
SYKPCNT	870	116	SYMVERSN	4	2
SYKPDD	870	115	SYMWORK2	78	
SYKPSV	870	11E	SYM1NMSG	5	80
SYKPSVAR	870	11F			
SYKSIGA	870	10F			
SYKSIGE	870	10E			
SYKSJIOB	870	11B			
SYKSJSP	870	106			
SYKSFM	870	10B			
SYKSMSU	870	107			
SYKSWBM	870	105			
SYKWTOPL	870	109			
SYKX15	870	10C			
SYM	0				
SYMBYTE1	64				
SYMBYTE2	65				
SYMCBBAS	30				
SYMCBMSG	7F4				
SYMCB1	8				
SYMCB10	2C				
SYMCB2	C				
SYMCB3	10				
SYMCB4	14				
SYMCB5	18				
SYMCB6	1C				
SYMCB7	20				
SYMCB8	24				
SYMCB9	28				
SYMCLR10	54				
SYMCLR11	58				
SYMCLR12	5C				
SYMCLR13	60				
SYMCLR2	34				
SYMCLR3	38				
SYMCLR4	3C				
SYMCLR5	40				
SYMCLR6	44				
SYMCLR7	48				
SYMCLR8	4C				
SYMCLR9	50				



**\$S35D Information**

**\$S35D Programming Interface information**

Programming Interface information

**\$S35D**

End of Programming Interface information

## Heading Information • \$S35D Map

### \$S35D Heading Information

**Common Name:** WTO (SVC 35) work area DSECT  
**Macro ID:** \$S35D  
**DSECT Name:** S35DSECT  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** S35D Job log message  
 S35S Message from another address space  
 S35R Reply command  
 Offset: S35DID-S35DSECT  
 Length: L'S35DID  
**Storage Attributes:** Subpool: N/A  
 Key: 1  
 Residency: In the xxxxWTO data space  
**Size:** See S35DL  
**Created by:** HASCSIRQ during REPLY command processing (SSICMD)  
 HASCSIRQ during WTO exit processing (SSIWTA)  
**Pointed to by:** S35DPREV field of the S35D data area  
 S35DNEXT field of the S35D data area  
 TINHEAD field of the TINA data area  
 TINTAIL field of the TINA data area  
 TREWTAWA field of the TRE data area  
**Serialization:** FIFOENQ, FIFODEQ, FIFBLK  
**Function:** This DSECT represents a message that is to be placed into the JOB LOG of a job. This area is obtained by: SSIWTA for WTOs and WTORs issued by an address space SSICMD for reply commands

### \$S35D Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	S35DSECT	
0	(0)	CHARACTER	4	S35DID	Eyecatcher (see above)
4	(4)	ADDRESS	4	S35DNEXT	Pointer to next buffer
8	(8)	ADDRESS	4	S35DPREV	Address of prior buffer
12	(C)	SIGNED	2	S35DMSG	LENGTH OF TEXT IN LOG BUFFER
14	(E)	CHARACTER	146	S35DMSG (0)	MESSAGE AREA
14	(E)	CHARACTER	8	S35DTIME	HH.MM.SS
14	(E)	CHARACTER	2		Indent id 2 characters
16	(10)	CHARACTER	4	S35DMCON	Connect id for minor WQE
22	(16)	CHARACTER	1		-
23	(17)	CHARACTER	8	S35DJOB	JOB NNNN
31	(1F)	CHARACTER	1		
32	(20)	CHARACTER	1	S35DACTF	*
33	(21)	CHARACTER	1	S35DTEXT (0)	Start of text
33	(21)	X'9'	0	S35HIDL	"9" SIZE OF HASP ID PORTION OF TEXT
33	(21)	CHARACTER	1	S35DHID	HASPXXX-
33	(21)	X'1C'	0	S35DFILL	"*-S35DMSG" Length to indent message
42	(2A)	CHARACTER	8	S35DJOB	JOBNAME
50	(32)	CHARACTER	1		-
50	(32)	X'6D'	0	S35DTXTL	"(S35DMSG+L'S35DMSG-*)"
51	(33)	CHARACTER	109	S35DTXT	Message text
160	(A0)	SIGNED	2	S35DTMSL	Total message length
162	(A2)	SIGNED	2	S35DMS2L	Length of 2nd half of msg
164	(A4)	ADDRESS	4	S35DMS2P	Start of 2nd half of msg
168	(A8)	BITSTRING	1	S35DFLG1	Flag byte
		1... ....		S35DSPLT	"B'10000000" Message is to be split
		.1... ....		S35DJOB	"B'01000000" JOBID needs to be added
172	(AC)	SIGNED	4	(0)	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
172	(AC)	BITSTRING	16	S35DTMST (0)	Time associated with msg
172	(AC)		8	S35DTME	Time in HHMMSSthmiju0000
180	(B4)		4	S35DDATE	Date in 0YYYYDDD
184	(B8)	SIGNED	4		Reserved (must be 0)
184	(B8)	X'84'	0	S35DMAX	"132" Maximum log lrecl size
192	(C0)	DBL WORD	8	(0)	
192	(C0)	X'C0'	0	S35DL	** -S35DSECT" LENGTH OF WORK AREA
192	(C0)	X'FF'	0	S35SP	"255" SUBPOOL FOR WORK AREA

**\$S35D Cross Reference**

Name	Hex Offset	Hex Value
S35DACTF	20	
S35DDATE	B4	
S35DFILL	21	1C
S35DFLG1	A8	
S35DHID	21	
S35DID	0	E2F3F5A7
S35DJOB	17	
S35DJOBI	A8	40
S35DJOBN	2A	
S35DL	C0	C0
S35DMAX	B8	84
S35DMCON	10	
S35DMSG	E	
S35DMSGL	C	
S35DMS2L	A2	
S35DMS2P	A4	
S35DNEXT	4	
S35DPREV	8	
S35DSECT	0	
S35DSPLT	A8	80
S35DTEXT	21	
S35DTIME	E	
S35DTME	AC	
S35DTMSL	A0	
S35DTMST	AC	
S35DTXT	33	
S35DTXTL	32	6D
S35HIDL	21	9
S35SP	C0	FF

## \$S35D Cross Reference

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## \$TAB Information

### \$TAB Programming Interface information

Programming Interface information

\$TAB

End of Programming Interface information

## Heading Information • \$TAB Cross Reference

### \$TAB Heading Information

**Common Name:** HASP Track Allocation Block DSECT  
**Macro ID:** \$TAB  
**DSECT Name:** TAB  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: N/A  
 Key: N/A  
 Residency: N/A  
**Size:** See TABLNGLTH  
**Created by:** \$TABs are created when the data area into which they are imbedded are created.  
**Pointed to by:** \$TABs are imbedded in the \$IOT or \$SDB data areas  
**Serialization:** In the user environment, updates are via PLO if there are records remaining in the TAB and via ENQ if there are no records remaining in the TAB. See routine \$STRAK in HASCSRIC for details.  
 In the JES2 environment, main task serialization is all that is required.  
**Function:** The TAB describes a information needed to track the allocation of SPOOL space to a job or a data set.  
 TABs are created as part of another control (\$SDB or \$IOT) and do not exist as separate control blocks.

### \$TAB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TAB	, TRACK ALLOCATION BLOCK
0	(0)	SIGNED	4	TABMTTR	Last allocated buffer (must end up DWORD aligned for a PLO)
4	(4)	BITSTRING	1	TABFLAG	FLAG BYTE
		.... ....		TABMINOR	"B'00000000" NON-TRACK-CELLED -- Pddb LEVEL
		.1.. ....		TABMAJOR	"B'01000000" TRACK-CELLED -- Pddb LEVEL
		11.. ....		TABMASTR	"B'11000000" NON-TRACK-CELLED -- JOB LEVEL
5	(5)	BITSTRING	1		Reserved
6	(6)	BITSTRING	1	TABMAXR	MAX RECD NBR ON TRACK
7	(7)	BITSTRING	1	TABUFCNT	NBR BUFFERS LEFT IN CELL
7	(7)	X'4'	0	TABRCPBA	"TABFLAG,*-TABFLAG" BACK-UP AREA FOR RCPXTTR FOR MAS SPOOL MESSAGES
8	(8)	SIGNED	4	TABAIOT	ADDR OF ALLOCATION IOT
8	(8)	X'C'	0	TABLNGLTH	"*-TAB" TAB DSECT LENGTH

### \$TAB Cross Reference

Name	Hex Offset	Hex Value
TAB	0	
TABAIOT	8	
TABFLAG	4	
TABLNGLTH	8	C
TABMAJOR	4	40
TABMASTR	4	C0
TABMAXR	6	
TABMINOR	4	0
TABMTTR	0	
TABRCPBA	7	4
TABUFCNT	7	

## \$TED Information

### \$TED Heading Information

**Common Name:** Trace Enablement Descriptor  
**Macro ID:** \$TED  
**DSECT Name:** TED  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'TED '  
 Offset: -8 (in the JES2 CSA storage prefix)  
 Length: 4  
**Storage Attributes:** Subpool: 241  
 Key: 1  
 Residency: Virtual is in 31 bit common storage. Real storage can be anywhere in 64 bit storage  
**Size:** See the TEDLEN equate (plus an 8 byte prefix)  
**Created by:** HASPIRSI  
**Pointed to by:** CCTTED field of the \$HCCT data area  
**Serialization:** None required  
**Function:** The \$TED DSECT maps the data areas needed to determine if a particular trace is active and if so, what filters may apply to that trace.  
 The \$TED has a basic header followed by an array of 256 entries that specify the characteristics for all possible trace entries.

### \$TED Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TED	
0	(0)	ADDRESS	1	TEDVERS	Version number of TED
0	(0)	X'1'	0	TEDVERSN	"1,1,C'X'" Current version number
1	(1)	BITSTRING	1	TEDTRFLG	Trace facility flag byte
		1... ....		TEDTRACT	"B'10000000" Event tracing activated
		.1.. ....		TEDTRLOG	"B'01000000" Event trace log active
2	(2)	BITSTRING	2		Reserved
4	(4)	SIGNED	4		Reserved
8	(8)	DBL WORD	8	TEDTRBTH (0)	---+ Next 2 fields stay together
8	(8)	ADDRESS	4	TEDTRTBL	Address of current trace table
12	(C)	ADDRESS	4	TEDTRLGG	---+ Addr of table being logged
16	(10)	ADDRESS	4	TEDTRPLG	Addr of previous log table
20	(14)	SIGNED	4	TEDTRSIZ	Trace table size (in bytes)
24	(18)	DBL WORD	8	TEDTRTOT (0)	---+ Next two fields are CDS
24	(18)	SIGNED	4	TEDTRRLC	Count of recent discards
28	(1C)	SIGNED	4	TEDTRCTL	---+ Count of total discards
32	(20)	SIGNED	4	TEDTRCUR	Count of current trace tables
36	(24)	SIGNED	4	TEDTRNEW	Count of target trace tables
40	(28)	SIGNED	4	TEDTRFRE	Count of free trace tables
44	(2C)	ADDRESS	4	TEDDM654	Address of domid for 654 msg
48	(30)	SIGNED	4	TEDTM654	Time the 654 msg was issued
52	(34)	ADDRESS	2	TEDTRCPG	TRACEDEF PAGES= parameter
54	(36)	ADDRESS	2	TEDTRCWP	HASP050 warning percentage
56	(38)	SIGNED	4	TEDTRLGS	Trace log spin size, in lines
60	(3C)	CHARACTER	1	TEDTRCLS	Trace log sysout class
61	(3D)	ADDRESS	3		Reserved for future use
64	(40)	SIGNED	4	(0)	
64	(40)	BITSTRING	1	TEDTRIDS	Descriptors for each trace entry

## \$TED Map

### Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
64	(40)	X'58'	0	TEDTIDTB	"TEDTRIDS+TEDELEN" Trace ID=1-255. (ID=0 is used internally for discarding)
6208	(1840)	DBL WORD	8	(0)	Align on a double word
6208	(1840)	X'1840'	0	TEDLEN	**"TED" Length of the TED

### Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TEDE	, Trace descriptor entry

Comment

The TEDTRFL1 flag serve a dual purpose. The trace id bit definitions start with bit 0 and use increasing bit numbers while the SSI function bit definitions start at bit 7 and use decreasing bit numbers. Unused bits in the middle are reserved for future use.

End of Comment

0	(0)	BITSTRING	1	TEDTRFL1	TRACE/SSI flag byte
		1... ....		TEDTRDEF	"B'10000000" Trace id is defined
		.1.. ....		TEDTRDON	"B'01000000" Trace id is being traced
		.... ...1		TEDSSION	"B'00000001" SSI function being traced

Comment

Filtering is done by ensuring that if any of the TEDFILTR bits are on, then the current environment must match one of the conditions specified. If filtering is active (one of the TEDFILTR bits is on), then if any of TEDLIMTR bits are on, then current environment must match all of the conditions specified (in addition to one of the condition indicated by TEDFILTR)

End of Comment

1	(1)	BITSTRING	1	TEDFILTR	Filtering flag byte (OR filtering)
		1... ....		TEDFJOB	"B'10000000" Filter on job name
		.1.. ....		TEDFJNUM	"B'01000000" Filter on job number
		..1. ....		TEDFASID	"B'00100000" Filter on ASID
2	(2)	BITSTRING	1	TEDLIMTR	Additional LIMITs (AND filtering)
		1... ....		TEDLTCBA	"B'10000000" Limit to specified TCB
3	(3)	BITSTRING	1		Reserved
4	(4)	CHARACTER	8	TEDJOBNM	Job name to filter on
12	(C)	SIGNED	4	TEDJBNUM	Job number to filter on
16	(10)	SIGNED	4	TEDTCBA	TCB address to limit tracing
20	(14)	ADDRESS	2	TEDASID	ASID to filter on
24	(18)	SIGNED	4	(0)	Align on full word
24	(18)	X'18'	0	TEDELEN	**"TEDE" Length of an entry



**\$TED Cross Reference**

Name	Hex Offset	Hex Value
TED	0	
TEDASID	14	
TEDDM654	2C	
TEDE	0	
TEDELEN	18	18
TEDFASID	1	20
TEDFILTR	1	0
TEDFJNUM	1	40
TEDFJOB	1	80
TEDJBNUM	C	
TEDJOBNM	4	
TEDLEN	1840	1840
TEDLIMTR	2	0
TEDLTCBA	2	80
TEDSSION	0	1
TEDTCBA	10	
TEDTIDTB	40	58
TEDTM654	30	
TEDTRACT	1	80
TEDTRBTH	8	
TEDTRCLS	3C	
TEDTRCPG	34	
TEDTRCTL	1C	
TEDTRCUR	20	
TEDTRCWP	36	
TEDTRDEF	0	80
TEDTRDON	0	40
TEDTRFLG	1	0
TEDTRFL1	0	0
TEDTRFRE	28	
TEDTRIDS	40	
TEDTRLGG	C	
TEDTRLGS	38	
TEDTRLOG	1	40
TEDTRNEW	24	
TEDTRPLG	10	
TEDTRRLC	18	
TEDTRSIZ	14	
TEDTRTBL	8	
TEDTRTOT	18	
TEDVERS	0	
TEDVERSN	0	1

## \$TED Cross Reference

## \$TEWA Information

### \$TEWA Heading Information

**Common Name:** Timed Event Work Area  
**Macro ID:** \$TEWA  
**DSECT Name:** TEWA  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** '\$TEWA'  
 Offset: 0  
 Length: 8  
**Storage Attributes:** Subpool: 230  
 Key: 1  
 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.  
**Size:** See TEWALEN  
**Created by:** HASPNUC  
**Pointed to by:** - PCBTEWA in \$PERFCB.  
**Serialization:** - None  
**Function:** The \$TEWA contains storage used by the MTTR Timed Event Data processing.

### \$TEWA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TEWA	,
0	(0)	CHARACTER	8	TEWA_ACRO	Eye catcher \$TEWA
8	(8)	BITSTRING	16	TEWA_TOKEN	Token
24	(18)	BITSTRING	216	TEWA_SAVEAREA	Savearea for IEATEDS service
240	(F0)	ADDRESS	4	TEWA_PCESAVE	Savearea for PCE address
244	(F4)	CHARACTER	8	TEWA_THREAD	Saved Thread Name
252	(FC)	CHARACTER	32	TEWA_DATA	Work area
252	(FC)	X'FC'	0	TEWA_DATA16	"TEWA_DATA,16,C'X'" Data to pass to IEATEDS
288	(120)	DBL WORD	8	(0)	Align TedWorkArea on dbl word
288	(120)	BITSTRING	1	TEWA_WORKAREA	

Comment

MACDATE -09/02/10-<0>

End of Comment

0	(0)	X'920'	0	M00M1369	"TEWAPLD" ++ IEATEDS NAME
2336	(920)	DBL WORD	8	TEWAPLD (0)	++ IEATEDS PARM LIST
2336	(920)	BITSTRING	1	TEWAPLD_XVERSION	++ INPUT XVERSION
2337	(921)	BITSTRING	1	TEWAPLD_XREQUEST	++ XREQUEST
2337	(921)	X'0'	0	TEWAPLD_XREQUEST_RECORD	"0" ++ XREQUEST.RECORD KEYWORD
2337	(921)	X'1'	0	TEWAPLD_XREQUEST_REGISTER	"1" ++ XREQUEST.REGISTER KEYWORD
2338	(922)	BITSTRING	1	TEWAPLD_XEVENTTYPE	++ XEVENTTYPE
2338	(922)	X'0'	0	TEWAPLD_XEVENTTYPE_START	"0" ++ XEVENTTYPE.START KEYWORD
2338	(922)	X'1'	0	TEWAPLD_XEVENTTYPE_MID	"1" ++ XEVENTTYPE.MID KEYWORD
2338	(922)	X'2'	0	TEWAPLD_XEVENTTYPE_END	

## \$TEWA Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2339	(923)	CHARACTER	1	TEWAPLD_XRSV0002	"2" ++ XEVENTTYPE.END KEYWORD
2340	(924)	CHARACTER	32	TEWAPLD_XCOMPNAME	++ RESERVED
2372	(944)	CHARACTER	8	TEWAPLD_XMODNAME	++
2380	(94C)	CHARACTER	8	TEWAPLD_XMODLEVEL	++
2388	(954)	SIGNED	4	TEWAPLD_XMODOFFSET	++ FIELD_LABEL
2392	(958)	CHARACTER	8	TEWAPLD_XEVENTTHREAD	++
2400	(960)	CHARACTER	16	TEWAPLD_XTEDTOKEN	++
2416	(970)	CHARACTER	32	TEWAPLD_XEVENTDESC	++
2448	(990)	CHARACTER	16	TEWAPLD_XUSERDATACOMBI	++ FIELD_LABEL
2464	(9A0)	SIGNED	4	TEWAPLD_XMAXEVENTS	++
2468	(9A4)	ADDRESS	4	TEWAPLD_XWORKAREA_ADDR	++ ADDR
2472	(9A8)	CHARACTER	24	TEWAPLD_XRSV0004	++ RESERVED
2472	(9A8)	X'A0'	0	TEWAPLDL	**TEWAPLD" ++ LENGTH OF PLIST
Comment					
IEATEDS-0					
End of Comment					
0	(0)	X'9C0'	0	TEWALEN	**TEWA" Length of entire TEWA

## \$TEWA Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
M00M1369	0	920	TEWAPLD_XEVENTTYPE_START		
TEWA	0			922	0
TEWA_ACRO	0		TEWAPLD_XMAXEVENTS		
TEWA_DATA	FC			9A0	
TEWA_DATA16	FC	FC	TEWAPLD_XMODLEVEL		
TEWA_PCESAVE	F0			94C	
TEWA_SAVEAREA			TEWAPLD_XMODNAME		
	18			944	
TEWA_THREAD	F4		TEWAPLD_XMODOFFSET		
TEWA_TOKEN	8			954	
TEWA_WORKAREA			TEWAPLD_XREQUEST		
	120			921	
TEWALEN	0	9C0	TEWAPLD_XREQUEST_RECORD		
TEWAPLD	920			921	0
TEWAPLD_XCOMPNAME			TEWAPLD_XREQUEST_REGISTER		
	924			921	1
TEWAPLD_XEVENTDESC			TEWAPLD_XRSV0002		
	970			923	
TEWAPLD_XEVENTTHREAD			TEWAPLD_XRSV0004		
	958			9A8	
TEWAPLD_XEVENTTYPE			TEWAPLD_XTEDTOKEN		
	922			960	
TEWAPLD_XEVENTTYPE_END			TEWAPLD_XUSERDATACOMBI		
	922	2		990	
TEWAPLD_XEVENTTYPE_MID			TEWAPLD_XVERSION		
	922	1		920	

Name	Hex Offset	Hex Value
TEWAPLD_XWORKAREA_ADDR	9A4	
TEWAPLDL	9A8	A0

## \$TEWA Cross Reference

## \$TEXWORK Information

### \$TEXWORK Heading Information

**Common Name:** JES2 Time Excession Monitor PCE Work Area  
**Macro ID:** \$TEXWORK  
**DSECT Name:** PCE (\$TEXWORK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4  
**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE  
**Size:** See symbol TEXPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.  
**Created by:** See \$PCE  
**Pointed to by:** The \$TXIMPCE field of the \$HCT data area  
 See \$PCE for other pointer fields that apply to all PCE types.  
**Serialization:** Normal PCE dispatch serialization  
**Function:** The fields in this area are used by a JES2 Time Excession Monitor Processor and by its support routines and exits. \$TEXWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$TEXWORK are actually part of the PCE DSECT, but only map PCEs with the value PCETEXID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

### \$TEXWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
312	(138)	BITSTRING	64	TEXWORK	Work area
376	(178)	DBL WORD	8	(0)	Force double-word alignment
376	(178)	X'40'	0	TEXPCEWS	**-"PCEWORK" Length of work area

## \$TEXWORK Map



## **\$TGB Information**

### **\$TGB Heading Information**

**Common Name:** Track Group Block  
**Macro ID:** \$TGB  
**DSECT Name:** TGB  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** None if BLOB TGBS \$BTE IF BADTRACK BTE  
**Storage Attributes:** Subpool: 241  
 Key: 1  
 Residency: Virtual and real storage are anywhere (above or below 16M) in common storage (CSA).

**Size:** See BTESIZE for BADTRACK BTEs.  
 See TGBBSIZE for BLOB TGBs.

**Created by:** TQUEBTG in the event of a SPOOL I/O error in the user's address space or in an FSS address space or in a JES2 subtask.  
 \$IOERRTN in the event of a SPOOL I/O error in the JES2 main task.  
 JES2 initialization for BADTRACK initialization statement processing.

**Pointed to by:** CCTIOERR field of the \$HCCT data area  
 BTENEXT field of the \$BTE data area if on the CCTIOERR queue  
 CCTTGBF field of the \$HCCT data area for TGBs in the BLOB  
 CCTTGBL field of the \$HCCT data area for TGBs in the BLOB  
 TGBs in the BLOB are contiguous.

**Serialization:** Compare and swap is used to queue the BTEs on the CCTIOERR chain. Compare double and swap is used to change the contents of a TGB in the BLOB.

**Function:** There is a pool of track group blocks (TGBs) of available space called a BLOB. A track group block represents one track group. The number of TGBs in the BLOB is set and maintained by JES2 (field CKPTGESZ in the checkpoint PCE work area).  
 A TGB may be allocated for a job by selecting a TGB from the BLOB using CDS logic in \$TRACK and \$STRAK.  
 The BLOB is replenished during the checkpoint cycle.

BTEs are used for bad track group (BADTRACK) processing. BTENEXT is used to chain the BTEs from \$SPOOLQ for HASPSPOL.

BTEs are also used whenever IOS has determined that a volume had an I/O error as a result of losing all paths to the device. The BTE is queued on the \$SPOOLQ just as for bad track group processing, but when it is discovered that the I/O error was the result of an entire volume being inaccessible, the volume will be halted as opposed to just the track group being marked bad.

### **\$TGB Map**

## \$TGB Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TGB	ALLOCATION TRACK GROUP BLK
0	(0)	DBL WORD	8	TGBENTRY (0)	Used to compare and swap next two words
0	(0)	BITSTRING	5	TGBMQT	Allocated MQT
5	(5)	BITSTRING	3	TGBJQEI	Index to JQE for JQESUMSK
5	(5)	X'0'	0	TGBAVAIL	"0" TGB available
5	(5)	X'FFFFFF'	0	TGBASYS	"-1" TGB allocated
5	(5)	X'FFFFFFE'	0	TGBBKUP	"-2" TGB allocated state not yet recorded on CKPT
5	(5)	X'FFFFFFD'	0	TGBASIG	"-3" TGB allocated state not yet recorded on SPOOL
8	(8)	DBL WORD	8	TGBENTRYB (0)	Used to ref next 2 words
8	(8)	BITSTRING	5	TGBMQTB	Backup of Allocated MQT
13	(D)	BITSTRING	3	TGBJQEIB	Backup of Offset to JQE
16	(10)	BITSTRING	16	TGBTOKEN	TCB Token of task in signature record process
16	(10)	X'10'	0	TGBASTKN	"TGBTOKEN,8" Address space token of AS in signature rcd process
32	(20)	DBL WORD	8	(0)	Ensure alignment
32	(20)	X'20'	0	TGBBSIZE	**"TGB" TGB DSECT LGTH FOR BLOB ENTRIES

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	BTE	Bad track element
0	(0)	CHARACTER	4	BTEID	Eye catcher
4	(4)	ADDRESS	4	BTENEXT	Address of next BTE on the Bad Track queue
8	(8)	BITSTRING	6	BTEMQTR	MQTR of block in error
14	(E)	BITSTRING	1	BTEFLAG1	Flags
		1... ....		BTE1CC3	"B'1000000" IOS has discovered that the extent has no paths
		.1... ....		BTE1MQER	"B'0100000" JES2 main task queued this BTE
		..1. ....		BTE1UQER	"B'0010000" User environment task queued this BTE
15	(F)	BITSTRING	1		Reserved for future use
16	(10)	SIGNED	2	BTEASID	ASID of failing task
18	(12)	BITSTRING	6		Reserved for future use
24	(18)	DBL WORD	8	(0)	Ensure alignment
24	(18)	X'18'	0	BTESIZE	**"BTE" BTE length for bad track

## \$TGB Cross Reference

Name	Hex Offset	Hex Value
BTE	0	
BTEASID	10	
BTEFLAG1	E	
BTEID	0	5BC2E3C5
BTEMQTR	8	
BTENEXT	4	
BTESIZE	18	18
BTE1CC3	E	80
BTE1MQER	E	40
BTE1UQER	E	20
TGB	0	
TGBASIG	5	FFFFFFD
TGBASTKN	10	10
TGBASYS	5	FFFFFFF
TGBAVAIL	5	0
TGBBKUP	5	FFFFFFE
TGBBSIZE	20	20
TGBENTRY	0	
TGBENTRYB	8	
TGBJQEI	5	
TGBJQEIB	D	
TGBMQT	0	
TGBMQTB	8	
TGBTOKEN	10	

## \$TIMWORK Information

### \$TIMWORK Heading Information

**Common Name:** JES2 STIMER/TTIMER PCE Work Area  
**Macro ID:** \$TIMWORK  
**DSECT Name:** PCE (\$TIMWORK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4  
**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE  
**Size:** See symbol TIMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.  
**Created by:** See \$PCE  
**Pointed to by:** The \$TIMEPCE field of the \$HCT data area  
 See \$PCE for other pointer fields that apply to all PCE types.  
**Serialization:** Normal PCE dispatch serialization  
**Function:** The fields in this area are used by a JES2 STIMER/TTIMER Processor and by its support routines and exits. \$TIMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$TIMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCETIMID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

### \$TIMWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
312	(138)	DBL WORD	8	(0)	Force double-word alignment
312	(138)	X'0'	0	TIMPCEWS	"*-PCEWORK" Length of work area

## \$TIMWORK Map

## \$TIPSWRK Information

### \$TIPSWRK Heading Information

**Common Name:** JES2 TIPS (Transaction Information Propagation Service) Processor  
**Macro ID:** \$TIPSWRK  
**DSECT Name:** PCE (\$TIPSWRK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4

**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE

**Size:** See symbol TPSPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.

**Created by:** See \$PCE  
**Pointed to by:** The \$TIPSPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the TIPS PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See \$PCE for other pointer fields that apply to all PCE types.

**Serialization:** Normal PCE dispatch serialization

**Function:** The fields in this work area are used by a JES2 TIPS Processor and by its support routine and exits. \$TIPSWRK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$TIPSWRK are actually part of PCE DSECT, but only map PCEs with the value PCETPSID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

### \$TIPSWRK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
312	(138)	SIGNED	4	(6)	Reserved for future use
336	(150)	DBL WORD	8	(0)	Alignment
336	(150)	X'18'	0	TPSPCEWL	"*-PCEWORK" Length of TIPS PCE

## \$TIPSWRK Map

## \$TLGWORK Information

### \$TLGWORK Heading Information

**Common Name:** JES2 Event Trace Log PCE Work Area  
**Macro ID:** \$TLGWORK  
**DSECT Name:** PCE (\$TLGWORK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4

**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE

**Size:** See symbol TLGPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

**Created by:** See \$PCE  
**Pointed to by:** \$TRCPCE field of the \$HCT data area  
 See \$PCE for other pointer fields that apply to all PCE types.

**Serialization:** Normal PCE dispatch serialization

**Function:** The fields in this work area are used by a JES2 Event Trace Log Processor and by its support routines and exits. \$TLGWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$TLGWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEVTID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

### \$TLGWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
312	(138)	BITSTRING	16	TLGMAP	Work area for TRACE ID 20
328	(148)	ADDRESS	4	TLGJCT	ADDRESS OF JCT FOR \$TRCLOG
332	(14C)	ADDRESS	4	TLGIOT	Address of current IOT
336	(150)	ADDRESS	4	TLGSAVE	ADDRESS OF CURRENT RCB
340	(154)	ADDRESS	4	TLGBUFAD	ADDRESS OF CURRENT OUTPUT BUFFER
344	(158)	ADDRESS	4	TLGIOTAD	ADDRESS OF CURRENT SPIN IOT
348	(15C)	BITSTRING	6	TLGIOTMQ	MQTR of current SPIN IOT
354	(162)	BITSTRING	2		Reserved
356	(164)	SIGNED	4	TLGWORK1	WORK AREA
360	(168)	SIGNED	4	TLGWORK2	WORK AREA
368	(170)	DBL WORD	8	TLGWORK3	WORK AREA
380	(17C)	ADDRESS	4	TLGTTP	ADDRESS OF CURRENT TRACE TABLE
384	(180)	ADDRESS	4	TLGTTESV	ADDRESS OF CURRENT TTE ENTRY
388	(184)	ADDRESS	4	TLGVFPFX	ADDRESS OF PREFIX OF CURRENT VARIABLE FORMAT FIELD
392	(188)	SIGNED	4	(0)	FULLWORD ALIGN NEXT FIELD
392	(188)	SIGNED	8	TLGMINOR (0)	RNAME--FULLWORD ALIGN, LENTH 8
392	(188)	CHARACTER	4	TLGREYE	EYECATCHER IN RNAME
396	(18C)	ADDRESS	4	TLGRNAME	TABLE ADDRESS IN RNAME

## \$TLGWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
RESERVE ENOUGH ROOM FOR THE ENQ AND DEQ PARAMETER LISTS TO COVER ALL OPTIONS.					
End of Comment					
400	(190)	SIGNED	4	TLGENQST (0)	TRUE START OF ENQ LIST
Comment					
MACRO-DATE = 06/24/03					
End of Comment					
400	(190)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
400	(190)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
404	(194)	ADDRESS	4		PREFIX - ECB ADDRESS
404	(194)	X'198'	0	TLGENQPL	*** X02113
408	(198)	ADDRESS	1		PELLAST flag byte. X02113
409	(199)	ADDRESS	1		PELMILEN - RNAME length.
410	(19A)	BITSTRING	1		
Comment					
PELFLAG - flag byte 2.					
End of Comment					
411	(19B)	ADDRESS	1		PELRET - return code byte.
412	(19C)	ADDRESS	4		QNAME ADDRESS
416	(1A0)	ADDRESS	4		RNAME ADDRESS
416	(1A0)	X'190'	0	TLGENQUE	"TLGENQST,*-TLGENQST" Used only in IPCS
420	(1A4)	SIGNED	4	TLGDEQST (0)	TRUE START OF DEQ LIST
Comment					
MACRO-DATE = 10/06/2004					
End of Comment					
420	(1A4)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
420	(1A4)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
420	(1A4)	X'1A8'	0	TLGDEQPL	*** X02113
424	(1A8)	ADDRESS	1		PELLAST flag byte. X02113
425	(1A9)	ADDRESS	1		PELMILEN - RNAME length.
426	(1AA)	BITSTRING	1		
Comment					
PELFLAG - flag byte 2.					
End of Comment					
427	(1AB)	ADDRESS	1		PELRET - return code byte.
428	(1AC)	ADDRESS	4		QNAME ADDRESS
432	(1B0)	ADDRESS	4		RNAME ADDRESS
432	(1B0)	X'1A4'	0	TLGDEQUE	"TLGDEQST,*-TLGDEQST" Used only in IPCS
436	(1B4)	SIGNED	4	TLGRECCT	TRACE LOG DATA SET RECORD COUNT
440	(1B8)	BITSTRING	12	TLGTQE	TQE FOR TRACE TABLE TRUNCATION
452	(1C4)	SIGNED	2	TLGVFCNT	NUMBER OF VARIABLE FIELDS LEFT
454	(1C6)	BITSTRING	1	TLGSAVID	FOR SAVING RECORD TYPE ID
455	(1C7)	BITSTRING	1	TLGFLAG1	FLAGS
456	(1C8)	SIGNED	4	(0)	FULLWORK ALIGN XECB
456	(1C8)	BITSTRING	1	TLGXECB	XECB FOR EXCLUSIVE ENQ ECB
456	(1C8)	X'A8'	0	TLGPCEWS	**-PCEWORK" LENGTH OF PCE WORK AREA



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
TLGFLAG1					
					End of Comment
		1... ....		TLG1OPEN	"B'10000000" TRACE LOG IS OPEN
		.1.. ....		TLG1ERR	"B'01000000" ERROR PRODUCING TRACE LOG
		..1. ....		TLG1TRUN	"B'00100000" ID=20 TRUNCATE CURRENT LINE
		...1 ....		TLG1HEAD	"B'00010000" Currently producing header

**\$TLGWORK Cross Reference**

Name	Hex Offset	Hex Value
PCE	0	
TLGBSAVE	150	
TLGBUFAD	154	
TLGDEQPL	1A4	1A8
TLGDEQST	1A4	
TLGDEQUE	1B0	1A4
TLGENQPL	194	198
TLGENQST	190	
TLGENQUE	1A0	190
TLGFLAG1	1C7	
TLGIOT	14C	
TLGIOTAD	158	
TLGIOTMQ	15C	
TLGJCT	148	
TLGMAP	138	
TLGMINOR	188	
TLGPCEWS	1C8	A8
TLGRECCT	1B4	
TLGREYE	188	
TLGRNAME	18C	
TLGSAVID	1C6	
TLGTQE	1B8	
TLGTTESV	180	
TLGTTP	17C	
TLGVFCNT	1C4	
TLGVFPFX	184	
TLGWORK1	164	
TLGWORK2	168	
TLGWORK3	170	
TLGXECB	1C8	
TLG1ERR	1C8	40
TLG1HEAD	1C8	10
TLG1OPEN	1C8	80
TLG1TRUN	1C8	20

## \$TLGWORK Cross Reference

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## \$TQE Information

### \$TQE Programming Interface information

Programming Interface information

\$TQE

End of Programming Interface information

## Heading Information • \$TQE Map

### \$TQE Heading Information

**Common Name:** TQE - HASP TIMER QUEUE ELEMENT  
**Macro ID:** \$TQE  
**DSECT Name:** NONE  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: 0, 1, 25, or 241  
 Key: 1  
 Residency: Anywhere. Depending on the control block the \$TQE is imbedded in, it may or may not be within the JES2 address space.  
**Size:** See TQLENG  
**Created by:** \$PCEDYN services or HASPIRMA, depending on which control block the \$TQE is imbedded in.  
**Pointed to by:** \$TQEQUE field of the \$HCT data area  
 TQETQE field of the \$TQE data area  
**Serialization:** Various serialization methods are used depending on the control block the \$TQE is imbedded in.  
**Function:** \$TQE maps the HASP Timer Queue Element displacements imbedded in various JES2 data areas as follows:

Field	Data area
ACTTQE	\$ACT
CKPSTQE	\$CKPWORK
CKPMITQE	\$CKPWORK
CKPCFTQE	\$CKPWORK
JPCETQE	\$CNVWORK
FSWTQE	\$FSSWORK
RESTQE	\$RESWORK
MLMTQE	\$MLMWORK
NRMTQE	\$NRMWORK
SJBSTQE	\$SJB
TLGTQE	\$TLGWORK
WRMTQE	\$WARNWRK
XFMSCTQE	\$XFMWORK
SRWTQE	\$SFRWORK
SNWTQE	\$SNFWORK

The third field mapped out by the TQE is the PCE address for \$POST. The high order bit is used as a flag bit to indicate if the timer has popped or not.

### \$TQE Map

Offsets		Type/Value	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	0		

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
,MODULE - \$CADDR WILL BE GENERATED, IT IS REQUIRED BY ,MODULE - \$HASPEQU WILL BE GENERATED, IT IS REQUIRED BY ,MODULE - \$MIT WILL BE GENERATED, IT IS REQUIRED BY ,MODULE - \$MITETBL WILL BE GENERATED, IT IS REQUIRED BY ,MODULE - \$PADDR WILL BE GENERATED, IT IS REQUIRED BY ,MODULE - \$PARMLST WILL BE GENERATED, IT IS REQUIRED BY ,MODULE - \$PSV WILL BE GENERATED, IT IS REQUIRED BY ,MODULE - \$USERCBS WILL BE GENERATED, IT IS REQUIRED BY					
End of Comment					
Comment					

START OF SPECIFICATIONS

01 DESCRIPTIVE NAME: TQE - HASP TIMER QUEUE ELEMENT

02 ACRONYM: \$TQE

01 MACRO NAME: \$TQE

01 DSECT NAME: NONE

01 LABEL PREFIX: TQE

01 COMPONENT ID: JES2 (SC1BH)

01 EXTERNAL CLASSIFICATION: PSP1

01 END OF EXTERNAL CLASSIFICATION:

01 EYE-CATCHER: None

02 OFFSET: N/A

02 LENGTH: N/A

01 STORAGE ATTRIBUTES:

02 SUBPOOL: 0, 1, 25, or 241

02 KEY: 1

02 RESIDENCY:

Anywhere. Depending on the control block the \$TQE is imbedded in, it may or may not be within the JES2 address space.

01 SIZE:

See TQELENG

01 CREATED BY:

\$PCEDYN services or HASPIRMA, depending on which control block the \$TQE is imbedded in.

01 POINTED TO BY:

\$TQEQE field of the \$HCT data area

TQETQE field of the \$TQE data area

01 SERIALIZATION:

Various serialization methods are used depending on the control block the \$TQE is imbedded in.

01 FUNCTION:

\$TQE maps the HASP Timer Queue Element displacements imbedded in various JES2 data areas as follows:

:xmp.

Field Data area

ACTTQE \$ACT

CKPSTQE \$CKPWORK

## \$TQE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		CKPMITQE \$CKPWORK			
		CKPCFTQE \$CKPWORK			
		JPCETQE \$CNVWORK			
		FSWTQE \$FSSWORK			
		RESTQE \$RESWORK			
		MLMTQE \$MLMWORK			
		NRMTQE \$NRMWORK			
		SJBSTQE \$\$SJB			
		TLGTQE \$TLGWORK			
		WRMTQE \$WARNWRK			
		XFMSCTQE \$XFMWORK			
		SRWTQE \$\$SFRWORK			
		SNWTQE \$\$SNFWORK			
		:exmp.			
02		The third field mapped out by the TQE is the PCE address for \$POST. The high order bit is used as a flag bit to indicate if the timer has popped or not.			
01		METHOD OF ACCESS:			
02		ASM:			
		See the individual control blocks that the \$TQE can be imbedded in for this information.			
02		PL/X:			
		This mapping is not available for compilations.			
01		USED BY:			
		See the individual control blocks that the \$TQE can be imbedded in for this information.			
01		DELETED BY:			
		Depending on the control block the \$TQE is imbedded in, the \$TQE may be deleted by one of the following means: JES2 task termination, MEMTERM, \$SJBFFREE service, \$PCEDYN.			
01		FREQUENCY:			
		See the individual control blocks that the \$TQE can be imbedded in for this information.			
01		RESTRICTIONS:			
		See the individual control blocks that the \$TQE can be imbedded in for this information.			
		END OF SPECIFICATIONS			
01		CHANGE ACTIVITY:			
		\$420P105=SWBMOD HJE4420 900904 RPG: PTM 105 PCE Misc Wakeup			
		\$520LSNF=SNIFFER HJE5520 940210 J_K2: SPOOL Management			
		\$R03P033=PTMS HJE6603 960627 K_W: PTM PSL0033			
		A000000-999999 CREATED FOR JES2 PRE SP			
		TQETQE			
		ADDRESS OF NEXT HASP TIMER QUEUE ELEMENT			
		TQETIME			
		SPECIFIED INTERVAL (IN TIMER UNITS)			
		TQEPCE			
		PCE ADDRESS FOR \$POST (HIGH ORDER BIT IS A FLAG)			
		HASP TIMER QUEUE ELEMENT DISPLACEMENTS			
End of Comment					
0	(0)	X'0'	0	TQETQE	"0,4" ADDR OF NEXT TIMER QUEUE ELMT
0	(0)	X'4'	0	TQETIME	"4,4" SPECIFIED INTERVAL(TIMER UNITS) NOTE THAT THIS SHOULD BE RESET BEFORE EACH CALL TO \$STIMER
0	(0)	X'8'	0	TQEPCE	"8,4" FLAG BYTE AND PCE ADDR TO \$POST
0	(0)	X'8'	0	TQEFLAG1	"TQEPCE,1" OFFSET TO FLAG BIT IN TQEPCE
0	(0)	X'C'	0	TQELENG	"L'TQETQE+L'TQETIME+L'TQEPCE" LENGTH OF THE TQE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
TQEFLAG1 BIT DEFINITIONS					
End of Comment					
	1... ..			TQE1TPOP	"B'10000000" TIMER POP
Comment					
EQU B'01111111' Cannot be used					
End of Comment					

**\$TQE Cross Reference**

Name	Hex Offset	Hex Value
TQEFLAG1	0	8
TQELENG	0	C
TQEPCE	0	8
TQETIME	0	4
TQETQE	0	0
TQE1TPOP	0	80

## \$TQE Cross Reference



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## \$TRCA Information

### \$TRCA Programming Interface information

Programming Interface information

\$TRCA

End of Programming Interface information

## Heading Information • \$TRCA Map

### \$TRCA Heading Information

**Common Name:** Termination recovery control area  
**Macro ID:** \$TRCA  
**DSECT Name:** TRCA  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** '\$\$\$\$TRCA' or 'TEMPTRCA' or '\$SUBTRCA'  
 Offset: 0  
 Length: 8

**Storage Attributes:** Subpool: any  
 Key: 1  
 Residency: anywhere

**Size:** See TRCALENG for the length of the TRCA used by the JES2 main task. See TRCADTEL for the length of the TRCA used by JES2 subtasks.

**Created by:** The TRCA for a main task abend (except one in a PC routine) is within CSECT HASPTERM. This TRCA has the eyecatcher '\$\$\$\$TRCA.'

The TRCA for an abend within a main task PC routine is obtained by routine \$PCABEND. This TRCA has the eyecatcher 'TEMPTRCA.'

The TRCA for a subtask abend is assembled within the \$DTE macro. This TRCA has the eyecatcher '\$SUBTRCA.'

**Pointed to by:** The \$ERRTRCA field of the \$HCT data area points to the TRCA assembled within HASPTERM.

**Serialization:** None.

**Function:** Provides work areas and communication fields required by \$ABEND, \$PCABEND, \$STABEND and the various recovery analysis routines.

### \$TRCA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TRCA	
0	(0)	CHARACTER	8		TRCA identifier
8	(8)	BITSTRING	1	TRCAFLAG	
		1... ....		TRCANOPC	"X'80" \$CURPCE = 0 OR PROCESSOR NOT ACTUALLY IN CONTROL --- (SEE CODE AND ESPECIALLY THE NOTE IN ABNDCKRP REGARDING THE VALIDITY OF THIS BIT WHEN NO SDWA)
		.1.. ....		TRCAOREC	"X'40" OPR AUTHORIZED RECOVERY
		..1. ....		TRCAODMP	"X'20" OPR AUTHORIZED (DID NOT SUPPRESS) DUMP (HASP070)
		...1 ....		TRCATERM	"X'10" RECOVERY NOT POSSIBLE
		.... 1..		TRCAABND	"X'08" \$ABEND IN CONTROL
		.... .1..		TRCARTRY	"X'04" \$RETRY IN CONTROL
		.... .1.		TRCAEEIU	"X'02" EMERGENCY ERA IN USE
		.... ...1		TRCASUBT	"X'01" SUBTASK (\$STABEND) TRCA
9	(9)	BITSTRING	1	TRCAFLG2	HEXIT FLAG BYTE
		1... ....		TRCAPJS2	"B'10000000" \$PJES2
		.1.. ....		TRCAINIT	"B'01000000" EXIT FROM INITIALIZATION
		..1. ....		TRCAEXIT	"B'00100000" OPR REPLIED 'EXIT' TO HASP098
		...1 ....		TRCAINTA	"B'00010000" ABEND UNDER INIT PCE
		.... 1..		TRCA26EX	"B'00001000" EXIT 26 ROUTINE INVOKED
		.... .1..		TRCA26AB	"B'00000100" EXIT 26 ROUTINE ABENDED
		.... .1.		TRCA2ARR	"B'00000010" Processing in an ARR
		.... ...1		TRCA2PRC	"B'00000001" JES2 percolated

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
10	(A)	BITSTRING 1... .. .1.. .. ..1. .... ...1 .....	1	TRCAFLG3 TRCA3CFT TRCA3RMT TRCA3AUT TRCA3STR	Third flag byte "B'10000000" Cleaning up checkpoint "B'01000000" REMOTE ind. for SDUMP "B'00100000" Auto reply to \$HASP098 "B'00010000" STRLIST exists
11	(B)	BITSTRING 1... ..	1	TRCASNPF TRCAHCPY	FLAG BYTE USED BY ABNDSNAP "B'10000000" INDICATES WTOS TO HARDCOPY LOG
12	(C)	ADDRESS	4	TRCAERA	ADDRESS OF ERA
16	(10)	DBL WORD	8	TRCAWORK (2)	16 BYTE WORK AREA
32	(20)	ADDRESS	4	TRCAREMO	Address of remote table
36	(24)	ADDRESS	4	TRCAJOBL	Address of joblist table
40	(28)	CHARACTER	144	TRCASTRL	Area for STRLIST on SDUMPX
184	(B8)	SIGNED	4	TRCACNCT	CONNECT ID FOR MLWTO
188	(BC)	SIGNED	4	TRCAMSGW	
188	(BC)	SIGNED	4	(0)	
188	(BC)	ADDRESS	2		TEXT LENGTH
190	(BE)	BITSTRING	2		MCSFLAGS
192	(C0)	CHARACTER	53		
263	(107)	BITSTRING	2		DESCRIPTOR CODES
265	(109)	BITSTRING	2		ROUTING CODES
267	(10B)	BITSTRING	2		LINE TYPE
269	(10D)	BITSTRING	1		AREA ID
270	(10E)	ADDRESS	1		TOTAL NUMBER OF LINES X02007
188	(BC)	BITSTRING	1		Space for dump title length
189	(BD)	CHARACTER	100		and title text
336	(150)	SIGNED	4	TRCAMODW (0)	MODMAP-STYLE ENTRY FOR ERMODULE
352	(160)	SIGNED	4	TRCARIPL	COUNT OF OUTSTANDING ERRORS REQUIRING RE-IPL- INCREMENTED IN \$ABEND, DECREMENTED IN \$RETRY WHEN RECOVERY HAS BEEN SUCCESSFUL. ANY TERMINATION WHILE NON-ZERO CAUSES SETTING OF CCTSTRPL IN CCTSTUS IN HCCT
356	(164)	SIGNED	4	TRCAREGS (6)	REGS R13-R2 ON ENTRY TO \$ABEND
356	(164)	X'168'	0	TRCAREGE	"TRCAREGS+4,4" REG 14 SLOT IN TRCAREGS
356	(164)	X'170'	0	TRCAREG0	"TRCAREGS+12,4" REG 0 SLOT IN TRCAREGS
356	(164)	X'174'	0	TRCAREG1	"TRCAREGS+16,4" REG 1 SLOT IN TRCAREGS
356	(164)	X'178'	0	TRCAREG2	"TRCAREGS+20,4" REG 2 SLOT IN TRCAREGS
380	(17C)	SIGNED	4		Reserved
384	(180)	ADDRESS	4	TRCALDAD	Address of LISTD storage
388	(184)	ADDRESS	4	TRCAARMT	Address of REMOTE storage
392	(188)	SIGNED	4	TRCASDMP (0)	SDUMP PARAMETER LIST
392	(188)	ADDRESS	1		FLAG BYTE
393	(189)	ADDRESS	1		FLAG BYTE
394	(18A)	ADDRESS	1		FLAG BYTE
395	(18B)	ADDRESS	1		FLAG BYTE
396	(18C)	ADDRESS	4		ADDRESS OF DCB
400	(190)	ADDRESS	4		ADDRESS OF STORAGE LIST
404	(194)	ADDRESS	4		ADDRESS OF USER DATA
408	(198)	ADDRESS	4		ADDRESS OF ECB/SRB
412	(19C)	ADDRESS	2		CURRENT ASID
414	(19E)	ADDRESS	2		OTHER ASID
416	(1A0)	ADDRESS	4		ADDRESS OF ASID LIST
420	(1A4)	ADDRESS	4		ADDRESS OF SUMLIST/SUMLSTA LIST
424	(1A8)	ADDRESS	4		RESERVED
428	(1AC)	ADDRESS	4		RESERVED
432	(1B0)	ADDRESS	1		FLAG BYTE
433	(1B1)	ADDRESS	1		CONTROL FLAG BYTE
434	(1B2)	ADDRESS	1		TYPE FLAG BYTE
435	(1B3)	ADDRESS	1		VERSION
436	(1B4)	ADDRESS	1		EXIT FLAG BYTE
437	(1B5)	ADDRESS	1		EXIT FLAG BYTE
438	(1B6)	ADDRESS	1		SDATA OPTIONS
439	(1B7)	ADDRESS	1		RESERVED SDATA OPTIONS
440	(1B8)	ADDRESS	4		ADDRESS OF SUBPLST
444	(1BC)	ADDRESS	4		ADDRESS OF KEYLIST

## \$TRCA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
448	(1C0)	ADDRESS	4		RESERVED
452	(1C4)	ADDRESS	4		ALET OF DCB PARAMETER
456	(1C8)	ADDRESS	4		ALET OF STORAGE PARAM
460	(1CC)	ADDRESS	4		ALET OF HDR PARAMETER
464	(1D0)	ADDRESS	4		ALET OF ASIDLST PARAM
468	(1D4)	ADDRESS	4		ALET OF SUMLIST PARAM
472	(1D8)	ADDRESS	4		ALET OF SUBPLST PARAM
476	(1DC)	ADDRESS	4		ALET OF KEYLIST PARAM
480	(1E0)	ADDRESS	4		ADDRESS OF LISTD
484	(1E4)	ADDRESS	4		No ALET for LISTD/LIST64
488	(1E8)	ADDRESS	4		No SUMLSTL or SUMLIST64
492	(1EC)	ADDRESS	4		ALET SUMLSTL or SUMLIST64
496	(1F0)	ADDRESS	4		No address for PSWREGS
500	(1F4)	ADDRESS	4		No Alet for PSWREGS
504	(1F8)	ADDRESS	4		ADDRESS OF SYMREC
508	(1FC)	ADDRESS	4		ALET OF SYMREC
512	(200)	ADDRESS	4		ADDRESS OF ID
516	(204)	ADDRESS	4		ALET OF ID
520	(208)	ADDRESS	4		ADDRESS FOR STRLIST
524	(20C)	ADDRESS	4		ALET OF STRLIST PARAM
528	(210)	ADDRESS	4		ADDRESS FOR INTOKEN
532	(214)	ADDRESS	4		ALET OF INTOKEN PARAM
536	(218)	ADDRESS	4		ADDRESS FOR REMOTE
540	(21C)	ADDRESS	4		ALET OF REMOTE PARAM
544	(220)	ADDRESS	4		ADDRESS FOR PROBDISC
548	(224)	ADDRESS	4		ALET OF PROBDISC PARAM
552	(228)	ADDRESS	4		ADDRESS FOR JOBLIST
556	(22C)	ADDRESS	4		ALET OF JOBLIST PARAM
560	(230)	ADDRESS	4		ADDRESS FOR DSPLIST
564	(234)	ADDRESS	4		ALET OF DSPLIST PARAM
568	(238)	ADDRESS	1		SDUMP Control Flag values
569	(239)	BITSTRING	7		RESERVED
569	(239)	X'B8'	0	TRCASDML	**"-TRCASDMP" Length of SDUMPX MF=L
576	(240)	DBL WORD	8	(0)	
576	(240)	X'240'	0	TRCADTEL	**"-TRCA" Length of DTE TRCAs

Comment

All fields in the TRCA used by the ABNDSNAP service and services called by ABNDSNAP must be defined before the TRCADTEL equate.

Fields used only in TRCAs in the NETSRV address space

End of Comment

576	(240)	ADDRESS	4	TRCANSST	NSST address
580	(244)	ADDRESS	4	TRCANSCT	NSCT address
584	(248)	ADDRESS	4	TRCANSWE	NSWE address
588	(24C)	ADDRESS	4	TRCAFINS	Failing instruction addr
592	(250)	ADDRESS	4	TRCARGRB	RB containing regs
600	(258)	DBL WORD	8	(0)	
600	(258)	X'258'	0	TRCANSVL	**"-TRCA"

Comment

Fields used only in TRCAs in the JES2 main task

End of Comment

576	(240)	ADDRESS	4	TRCA72ID	072 DOM ID
580	(244)	ADDRESS	4	TRCATOKN	TOKEN FOR EXIT 26 ESTAE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
584	(248)	SIGNED	4	TRCAECB	ECB FOR WTORs, SDUMPS, ETC
588	(24C)	BITSTRING	312	TRCAPSV	PCE STYLE SAVE AREA
900	(384)	ADDRESS	4	TRCADTE	CURRENT DTE ADDRESS
904	(388)	DBL WORD	8	TRCA26WK	WORK AREA FOR EXIT26
912	(390)	DBL WORD	8	TRCASIDS (0)	ASID LIST FOR \$SDUMP
912	(390)	X'6'	0	TRCASDNO	"(*-TRCASIDS)/2" Number of ASIDs allowed
924	(39C)	CHARACTER	4	TRCAOPT	TERMINATION OPTION AND SDUMP
924	(39C)	X'3A0'	0	TRCADMPT	"TRCAOPT+L'TRCAOPT,101,C'C" TITLE, KEEP TOGETHER
1032	(408)	SIGNED	4	TRCARRGS (16)	RESUMPTION REGS MOVED TO HERE
1032	(408)	X'408'	0	TRCARRG0	"TRCARRGS,4" JUST PRIOR TO FREEING OF ERA
1032	(408)	X'438'	0	TRCARRGC	"TRCARRGS+(R12*4),4"
1032	(408)	X'440'	0	TRCARRGE	"TRCARRGS+(R14*4),4"
1032	(408)	X'444'	0	TRCARRGF	"TRCARRGS+(R15*4),4"
1096	(448)	SIGNED	4	TRCAHRGS (16)	Resumption high reg halves
1096	(448)	X'484'	0	TRCAHRGF	"TRCAHRGS+(R15*4),4" High half of R15
1160	(488)	SIGNED	4	TRCAARGS (16)	RESUMPTION ARS MOVED HERE
1224	(4C8)	BITSTRING	1	TRCAMODE	MODE (MOVED FROM PREMODE)
1225	(4C9)	BITSTRING	3		Reserveds
1228	(4CC)	SIGNED	4	TRCASDWK	WORK AREA FOR \$SDUMP MSGS,TITLE
1236	(4D4)	BITSTRING	492	TRCAEERA	EMERGENCY ERA
1728	(6C0)	SIGNED	4	TRCASAVX (0)	PCE STYLE SAVE AREA FOR EXIT 26
2040	(7F8)	SIGNED	4	TRCAPPL (0)	PURGE PARAMETER LIST
2056	(808)	SIGNED	4	TRCASMFB (0)	EXIT SMF 'BUFFER'
2092	(82C)	CHARACTER	6	TRCACODE	TERMINATION CODE FOR TRACE ID=7
2098	(832)	BITSTRING	4	TRCAMAFF	Mask of systems to dump
2102	(836)	CHARACTER	8	TRCARCV	RECVOPTS copied from HCT
2112	(840)	SIGNED	4		Reserved
2120	(848)	DBL WORD	8	(0)	ALIGN END OF TRCA
2120	(848)	X'848'	0	TRCALENG	**"TRCA" LENGTH OF TRCA EQU

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TRCALSTD	START OF LISTD FOR SDUMPIX
0	(0)	SIGNED	4	TRCALLEN	LENGTH OF LISTD AREA
4	(4)	CHARACTER	8	TRCASTKN	STOKEN FOR LISTD
12	(C)	SIGNED	4	TRCARNUM	NUMBER OF ADDRESS RANGES
16	(10)	SIGNED	4	TRCAR1S	RANGE 1 STARTING ADDRESS
20	(14)	SIGNED	4	TRCAR1E	RANGE 1 ENDING ADDRESS
20	(14)	X'14'	0	TRCALSZ	**"TRCASTKN" Length of 1 entry

**\$TRCA Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
TRCA	0		TRCAHCPY	B	80
TRCAABND	8	8	TRCAHRGF	448	484
TRCAARGS	488		TRCAHRGS	448	
TRCAARMT	184		TRCAINIT	9	40
TRCACNCT	B8		TRCAINTA	9	10
TRCACODE	82C		TRCAJOB	24	
TRCADMPT	39C	3A0	TRCALDAD	180	
TRCADTE	384		TRCALENG	848	848
TRCADTEL	240	240	TRCALLEN	0	
TRCAECB	248		TRCALSTD	0	
TRCAEEIU	8	2	TRCALSZ	14	14
TRCAEERA	4D4		TRCAMAFF	832	
TRCAERA	C		TRCAMODE	4C8	
TRCAEXIT	9	20	TRCAMODW	150	
TRCAFINS	24C		TRCAMSGW	BC	
TRCAFLAG	8		TRCANOPC	8	80
TRCAFLG2	9		TRCANSCT	244	
TRCAFLG3	A		TRCANSST	240	

## \$TRCA Cross Reference

Name	Hex Offset	Hex Value
TRCANSVL	258	258
TRCANSWE	248	
TRCAODMP	8	20
TRCAOPT	39C	
TRCAOREC	8	40
TRCAPJS2	9	80
TRCAPPL	7F8	
TRCAPSV	24C	
TRCARCV	836	
TRCAREGE	164	168
TRCAREGS	164	
TRCAREG0	164	170
TRCAREG1	164	174
TRCAREG2	164	178
TRCAREMO	20	
TRCARGRB	250	
TRCARIPL	160	
TRCARNUM	C	
TRCARRGC	408	438
TRCARRGE	408	440
TRCARRGF	408	444
TRCARRGS	408	
TRCARRG0	408	408
TRCARTRY	8	4
TRCAR1E	14	
TRCAR1S	10	
TRCASAVX	6C0	
TRCASDML	239	B8
TRCASDMP	188	
TRCASDNO	390	6
TRCASDWK	4CC	
TRCASIDS	390	
TRCASMFB	808	
TRCASNPF	B	
TRCASTKN	4	
TRCASTRL	28	
TRCASUBT	8	1
TRCATERM	8	10
TRCATOKN	244	
TRCAWORK	10	
TRCA2ARR	9	2
TRCA2PRC	9	1
TRCA26AB	9	4
TRCA26EX	9	8
TRCA26WK	388	
TRCA3AUT	A	20
TRCA3CFT	A	80
TRCA3RMT	A	40
TRCA3STR	A	10
TRCA72ID	240	

## \$TRE Information

### \$TRE Programming Interface information

Programming Interface information

#### \$TRE

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

- TRERB

End of Programming Interface information

## Heading Information • \$TRE Map

### \$TRE Heading Information

**Common Name:** TCB Recovery Element  
**Macro ID:** \$TRE  
**DSECT Name:** TRE  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'TRE '  
 Offset: TREID-TRE  
 Length: 4

**Storage Attributes:** Subpool: 230  
 Key: 1  
 Residency: Virtual and Real storage are anywhere (above or below 16M) in the private storage of the address space of the task that is currently running in the JES2 code.

**Size:** TRENLEN  
**Created by:** The \$SSIBEGN routine in HASCLINK obtains the \$CPOOL for the \$TREs.  
 The GETTRE routine in HASCLINK creates the individual \$TRE.

**Pointed to by:** HXBTRE field of the \$HASXB data area points to the first TRE for the address space.  
 PSVADDR field of the \$PSV points to the associated TRE.  
 SSWTRE field of the \$SFSSWORK data area.  
 TREBRNCH field of the \$TRE data area is used to chain the remaining TRE's of the address space.  
 TRXTRE field of the \$TRX data area.

**Serialization:** Compare and Swap must be used to update the TRETRE field which indicates the owning TCB.  
 In SRB mode, TRETRE is set to x'FFFFFFFF'.

**Function:** The TRE contains information useful during recovery and status on global resources the TCB has acquired. The TRE resides within an MVS cell pool specifically created for it by the \$SSIBEGN routine.  
 TREs can also be used in SRB mode.

### \$TRE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TRE	BEGINNING OF TRE DSECT
0	(0)	CHARACTER	4	TREID	EYECATCHER OF TRE
4	(4)	ADDRESS	1	TREVRSN	VERSION FIELD OF THE TRE BLOCK
4	(4)	X'4'	0	TREVRNUM	"4" Current version of TRE
5	(5)	BITSTRING	1	TRECKEY	Original caller's PSWBYTE1 (KEY and PROB bits)
6	(6)	SIGNED	2	TREFUNC	Original caller's SSOBFUNC (Zero if not SSI TRE)
6	(6)	BITSTRING	0	TREFINT	"X'8000" Internal function ind
6	(6)	X'8001'	0	TREFIRDR	"TREFINT+1" Internal reader function
8	(8)	ADDRESS	4	TREBRNCH	ADDRESS OF NEXT TRE ON CHAIN
12	(C)	ADDRESS	4	TRETRE	ADDRESS OF CALLER'S TCB or x'FFFFFFFF' if an SRB
16	(10)	ADDRESS	4	TRETRB	ADDRESS OF TCB'S ACTIVE RB
20	(14)	ADDRESS	4	TRECSAVE	ADDRESS OF CALLER'S SAVE AREA
24	(18)	ADDRESS	4	TREHCCT	Address of HCCT
28	(1C)	ADDRESS	4	TRESSIBP	Address of \$SSIBEGN parms
32	(20)	ADDRESS	4	TRETRXCR	ADDRESS OF MOST RECENT TRX



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
ALL FIELDS AFTER THIS POINT WILL BE SET TO ZERO DURING TRE INITIALIZATION. INITIALIZATION OF FIELDS ABOVE THE TRERSAVE FIELD ARE SET BY SPECIFIC REFERENCE TO THE PARTICULAR FIELD. NEW FIELDS SHOULD BE ADDED AFTER THE TRERSAVE FIELD.					
End of Comment					
36	(24)	ADDRESS	4	TRERSAVE	ADDR OF MOST RECENT SAVE AREA
40	(28)	ADDRESS	4	TRESJBLK	SJB ADDR (IF LOCKED BY TASK)
44	(2C)	ADDRESS	4	TRECPOOL	\$GETHP CHAINING FIELD
48	(30)	ADDRESS	4	TREKEYSV	STORAGE KEY, XRT SAVE AREA, USED BY EXIT EFFECTOR, AND TRACE
52	(34)	ADDRESS	4	TREUSERA	RESERVED FOR USER
56	(38)	ADDRESS	4	TREUSERB	RESERVED FOR USER
60	(3C)	BITSTRING	1	TREUSECT	USE COUNT FOR \$TRACK ENTRY
61	(3D)	BITSTRING	1	TREFLAG3	Status flag byte 3
		1... ..		TRE3JSLR	"B'10000000" JESLOG ENQ requested
		.1... ..		TRE3JESL	"B'01000000" JESLOG ENQ active
		..1. ....		TRE3SJBL	"B'00100000" SJB lock inherited from higher level SSI
		...1 ....		TRE3STAX	"B'00010000" STAX DEFER=YES done
		.... 1...		TRE3SARR	"B'00001000" SSI covered by an ARR
		.... .1..		TRE3ESTA	"B'00000100" ESTAEX is established
		.... .1..		TRE3UANY	"B'00000010" Create by (USER,ANY) save
		.... ...1		TRE3PERC	"B'00000001" ABEND percolation occurred
62	(3E)	BITSTRING	1	TREFLAG4	Status flag byte 4
		1... ..		TRE4TRNQ	"B'10000000" Attempting to get trace ENQ
		.1... ..		TRE4ENQH	"B'01000000" Trace table ENQ held by \$TRACER routine
		..1. ....		TRE4WPUR	"B'00100000" Purge WQE when finished
		...1 ....		TRE4WSPN	"B'00010000" JESLOG spin required
		.... 1...		TRE4BEWT	"B'00001000" WTO SSI process BEWTO
		.... .1..		TRE4SMMSG	"B'00000100" SYSMMSG ENQ held
		.... .1..		TRE4SIRB	"B'00000010" IRB blocked for SYSMMSG ENQ
		.... ...1		TRE4SSJB	"B'00000001" HFEXSPIN SJB lock obtained
63	(3F)	BITSTRING	1	TRERSV	Reserved field
64	(40)	ADDRESS	4	TREWAITE	POINTER TO A WAIT ELEMENT
68	(44)	BITSTRING	1	TREFLAG1	STATUS/FLAG BYTE 1
		1... ..		TRE1TYPE	"B'10000000" TRE GOTTEN DURING \$\$SIBEGN PROCESSING, FREE DURING \$\$SIEND PROCESSING, NOT \$RETURN
		.1... ..		TRE1TRAC	"B'01000000" TCB SPECIFIC TRACING BIT
		..1. ....		TRE1SSI	"B'00100000" TRE REPRESENTS AN SSI FUNCTION
		...1 ....		TRE1SENG	"B'00010000" Task issued \$STRAK ENQ
		.... 1...		TRE1TRAK	"B'00001000" \$STRAK IS IN CONTROL
		.... .1..		TRE1NIRB	"B'00000100" TCBNOIRB needs to be reset by \$\$SJBUNLOK
		.... .1..		TRE1STAX	"B'00000010" STAX ISSUED BY \$\$SJBLOCK RTN
		.... ...1		TRE1NDMP	"B'00000001" RESTORE DUMP=NO ON RETURN TO RTM FROM \$\$SI ESTAE
69	(45)	BITSTRING	1	TREFLAG2	STATUS/FLAG BYTE 2
		1... ..		TRE2X33	"B'10000000" SSIDACLO - EXIT 33--ISSUE MESSAGE FLAG
		.1... ..		TRE2CNCL	"B'01000000" SSIALOC - Internal reader allocation was cancelled
		..1. ....		TRE2LHLD	"B'00100000" SJBLOCK obtained in WTALOGQ
		...1 ....		TRE2TERM	"B'00010000" \$ERROR ind to terminate
		.... 1...		TRE2LOG	"B'00001000" Log the error in LOGREC (via SETRP RECORD=YES)
		.... .1..		TRE2LKUS	"B'00000100" SJBLOCK was usurped from this RB
		.... .1..		TRE2LL	"B'00000010" SJBLOCK got local lock
		.... ...1		TRE2LKST	"B'00000001" SJBLOCK was stolen from this task
70	(46)	BITSTRING	1	TREUSER1	STATUS/FLAG RESERVED FOR USER
71	(47)	BITSTRING	1	TREX30TP	EXIT 30--TYPE OF DATASET BYTE
72	(48)	SIGNED	4		Reserved

# \$TRE Map

## Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
76	(4C)	BITSTRING	1	TRECRTRC	CALLRTM return code (see \$\$JBLOCK routine)
77	(4D)	BITSTRING	1	TREFLAG5	Flag byte 5
		1... ....		TRE5IRDR	"B'10000000" Set for Internal reader
		.1.. ....		TRE5BLSC	"B'01000000" Linkage Stack Compaction has been blocked
		..1. ....		TRE5SDBL	"B'00100000" HFEXSPIN obtained SDB lock
78	(4E)	BITSTRING	2		Reserved

Comment

The following words are used by WTALOGQ in HASCSIRQ which is invoked under multiple SSIs. The mapping has to be available to all environments, hence the fields are in the TRE common area.

TREWTAWA contains the address of the S35D currently being constructed and queued. If the value is zero, there is no current S35D. If positive, then it is the address of a CPOOL cell in the WTO data space.

End of Comment

80	(50)	ADDRESS	4	TREWTAWA	Work area addr for SSIWTA
84	(54)	SIGNED	4		Reserved for future use
88	(58)	SIGNED	4	TREWTASJ	Addr of SJB with log prob.
92	(5C)	SIGNED	4	TRESAVE (0)	SAVE AREA FOR SAVE/RETURN SRVCS
96	(60)	DBL WORD	8	TREDOUB	Generate dword scratch area MCSFLUSH places TOD here
96	(60)	DBL WORD	8	TREBNAME	CATREAD dword scratch area used to store NAME= value for \$DOGBERT call.

Comment

## ENQ/DEQ PARAMETER LISTS

End of Comment

260	(104)	SIGNED	2	TRENQSTR (0)	START OF THE ENQ/DEQ PARM LISTS
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Comment

MACRO-DATE = 06/24/03

End of Comment

260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	X'104'	0	TREDRNQ	*** X02113
260	(104)	ADDRESS	1		PELLAST flag byte. X02113
261	(105)	ADDRESS	1		PELMILEN - RNAME length.
262	(106)	BITSTRING	1		

Comment

PELFLAG - flag byte 2.

End of Comment

263	(107)	ADDRESS	1		PELRET - return code byte.
264	(108)	ADDRESS	4		QNAME ADDRESS
268	(10C)	ADDRESS	4		RNAME ADDRESS
268	(10C)	X'C'	0	TREDRNL	**-TREDRNL" Length of RDR ENQ list form

Comment

MACRO-DATE = 10/06/2004

End of Comment

260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
-----	-------	--------	---	-----	-------------------------------

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
260	(104)	X'104'	0	TRERDRDQ	*** X02113
260	(104)	ADDRESS	1		PELLAST flag byte. X02113
261	(105)	ADDRESS	1		PELMILEN - RNAME length.
262	(106)	BITSTRING	1		

Comment

PELFLAG - flag byte 2.

End of Comment

263	(107)	ADDRESS	1		PELRET - return code byte.
264	(108)	ADDRESS	4		QNAME ADDRESS
268	(10C)	ADDRESS	4		RNAME ADDRESS
268	(10C)	X'C'	0	TRERDRDL	**"-TRERDRDQ" Length of RDR DEQ list form

Comment

MACRO-DATE = 06/24/03

End of Comment

260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	X'104'	0	TRESVJNQ	*** X02113
260	(104)	ADDRESS	1		PELLAST flag byte. X02113
261	(105)	ADDRESS	1		PELMILEN - RNAME length.
262	(106)	BITSTRING	1		

Comment

PELFLAG - flag byte 2.

End of Comment

263	(107)	ADDRESS	1		PELRET - return code byte.
264	(108)	ADDRESS	4		QNAME ADDRESS
268	(10C)	ADDRESS	4		RNAME ADDRESS
268	(10C)	X'C'	0	TRESVJNL	**"-TRESVJNQ" Length SVJ ENQ list form

Comment

MACRO-DATE = 10/06/2004

End of Comment

260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	X'104'	0	TRESVJDQ	*** X02113
260	(104)	ADDRESS	1		PELLAST flag byte. X02113
261	(105)	ADDRESS	1		PELMILEN - RNAME length.
262	(106)	BITSTRING	1		

Comment

PELFLAG - flag byte 2.

End of Comment

263	(107)	ADDRESS	1		PELRET - return code byte.
264	(108)	ADDRESS	4		QNAME ADDRESS
268	(10C)	ADDRESS	4		RNAME ADDRESS
268	(10C)	X'C'	0	TRESVJDL	**"-TRESVJDQ" Length SVJ DEQ list form

Comment

MACRO-DATE = 06/24/03

End of Comment

260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	X'104'	0	TRESAPNQ	*** X02113

# \$TRE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
260	(104)	ADDRESS	1		PELLAST flag byte. X02113
261	(105)	ADDRESS	1		PELMILEN - RNAME length.
262	(106)	BITSTRING	1		
Comment					
PELFLAG - flag byte 2.					
End of Comment					
263	(107)	ADDRESS	1		PELRET - return code byte.
264	(108)	ADDRESS	4		QNAME ADDRESS
268	(10C)	ADDRESS	4		RNAME ADDRESS
268	(10C)	X'C'	0	TRESAPNL	** -TRESAPNQ" Length SAPID ENQ list form
Comment					
MACRO-DATE = 10/06/2004					
End of Comment					
260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	X'104'	0	TRESAPDQ	*** X02113
260	(104)	ADDRESS	1		PELLAST flag byte. X02113
261	(105)	ADDRESS	1		PELMILEN - RNAME length.
262	(106)	BITSTRING	1		
Comment					
PELFLAG - flag byte 2.					
End of Comment					
263	(107)	ADDRESS	1		PELRET - return code byte.
264	(108)	ADDRESS	4		QNAME ADDRESS
268	(10C)	ADDRESS	4		RNAME ADDRESS
268	(10C)	X'C'	0	TRESAPDL	** -TRESAPDQ" Length SAPID DEQ list form
Comment					
MACRO-DATE = 06/24/03					
End of Comment					
260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	X'104'	0	TREJLGNQ	*** X02113
260	(104)	ADDRESS	1		PELLAST flag byte. X02113
261	(105)	ADDRESS	1		PELMILEN - RNAME length.
262	(106)	BITSTRING	1		
Comment					
PELFLAG - flag byte 2.					
End of Comment					
263	(107)	ADDRESS	1		PELRET - return code byte.
264	(108)	ADDRESS	4		QNAME ADDRESS
268	(10C)	ADDRESS	4		RNAME ADDRESS
268	(10C)	X'C'	0	TREJLGNL	** -TREJLGNQ" Length JESLOG ENQ list form
Comment					
MACRO-DATE = 10/06/2004					
End of Comment					
260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	X'104'	0	TREJLGDQ	*** X02113
260	(104)	ADDRESS	1		PELLAST flag byte. X02113

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
261	(105)	ADDRESS	1		PELMILEN - RNAME length.
262	(106)	BITSTRING	1		

Comment

PELFLAG - flag byte 2.

End of Comment

263	(107)	ADDRESS	1		PELRET - return code byte.
264	(108)	ADDRESS	4		QNAME ADDRESS
268	(10C)	ADDRESS	4		RNAME ADDRESS
268	(10C)	X'C'	0	TREJLGDL	**-"TREJLGDQ" Length JESLOG DEQ list form

Comment

MACDATE = 04/03/89

End of Comment

260	(104)	SIGNED	4	TRESJBTK (0)	
260	(104)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
260	(104)	BITSTRING	8		
268	(10C)	SIGNED	4		
272	(110)	ADDRESS	4		
276	(114)	ADDRESS	4		ASCB ADDRESS (INPUT)
280	(118)	SIGNED	4	(0)	FLAGS (INPUT)
280	(118)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
281	(119)	SIGNED	3		RESERVED
281	(119)	X'18'	0	TRESJBTL	**-"TRESJBTK" Length TCBTOKEN list form

Comment

-----  
 THE RNAME FOR THE ENQ MUST MATCH THE RNAME FOR THE EXCLUSIVE  
 ENQ THAT IS KEPT IN THE EVENT TRACE LOG PCE WORKAREA  
 (\$TLGWORK).  
 -----

End of Comment

Comment

MACRO-DATE = 06/24/03

End of Comment

260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
264	(108)	ADDRESS	4		PREFIX - ECB ADDRESS
264	(108)	X'10C'	0	TRETRENQ	*** X02113
268	(10C)	ADDRESS	1		PELLAST flag byte. X02113
269	(10D)	ADDRESS	1		PELMILEN - RNAME length.
270	(10E)	BITSTRING	1		

Comment

PELFLAG - flag byte 2.

End of Comment

271	(10F)	ADDRESS	1		PELRET - return code byte.
272	(110)	ADDRESS	4		QNAME ADDRESS
276	(114)	ADDRESS	4		RNAME ADDRESS
276	(114)	X'C'	0	TRETRENL	**-"TRETRENQ" Length of TCB ENQ list form

## \$TRE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MACRO-DATE = 10/06/2004					
End of Comment					
260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
260	(104)	X'108'	0	TRETRDEQ	*** X02113
264	(108)	ADDRESS	1		PELLAST flag byte. X02113
265	(109)	ADDRESS	1		PELMILEN - RNAME length.
266	(10A)	BITSTRING	1		
Comment					
PELFLAG - flag byte 2.					
End of Comment					
267	(10B)	ADDRESS	1		PELRET - return code byte.
268	(10C)	ADDRESS	4		QNAME ADDRESS
272	(110)	ADDRESS	4		RNAME ADDRESS
272	(110)	X'C'	0	TRETRDEL	** -TRETRDEQ" Length of TCB DEQ list form
284	(11C)	SIGNED	4	(0)	FULWORD ALIGN
284	(11C)	CHARACTER	8	TRERNAME (0)	RNAME FOR DEQ
284	(11C)	CHARACTER	4	TREREYE	EYECATCHER IN RNAME
288	(120)	ADDRESS	4	TRERCUR	TRACE TABLE ADDRESS IN RNAME
Comment					
Dump header value name for RECOVERY. Used only in recovery TRE.					
End of Comment					
92	(5C)	BITSTRING	1	TRERECHL	Length of dump header
93	(5D)	CHARACTER	100	TRERECHD	Dump header work area
200	(C8)	DBL WORD	8	TRERECDW	RECOVERY work area
Comment					
<p>THE FOLLOWING SAVE AREA IS POINTED TO BY REGISTER 13 THROUGHOUT THE SSI CODE, GENERALLY SPEAKING. AS IT IS A C'F1SA' TYPE OF SAVE AREA, MVS SERVICES WHICH ARE ACCESS REGISTER SENSITIVE WILL NOT USE IT, BUT WILL INSTEAD USE THE LINKAGE STACK. JES2 SSI CODE USES THE LINKAGE STACK TO SAVE REGISTERS AND STATUS. THE SAVE AREA IS A STANDARD SAVE AREA, BUT WITH JES2 EXTENSIONS.</p>					
End of Comment					
296	(128)	DBL WORD	8	(0)	Align save area
296	(128)	CHARACTER	168	TRECF1SA	SAVE AREA PLUS JES2 EXTENSIONS
300	(12C)	CHARACTER	4	TRECF1SV	MAKE IT A C'F1SA' SAVE AREA
464	(1D0)	DBL WORD	8	TRESSIWK (0)	SSI FUNCTION DEPENDENT WORKAREA ORG'D OVER BY MAPPINGS BELOW
Comment					
<p>The following mapping of the TRESSIWK area is used by the HIRDRPUT routine in HASCPHAM.</p>					
End of Comment					
464	(1D0)	ADDRESS	4	TREIRWD	Current/locked IRWD addr
468	(1D4)	BITSTRING	1	TRERPLRQ	RPLREQ value

Offsets

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

Comment

THE FOLLOWING MAPPING OF THE TRESSIWK AREA IS USED BY SSIDACLO.

End of Comment

464	(1D0)	BITSTRING	1	TREDAXDT	EXIT 33 DATASET TYPE BYTE
465	(1D1)	BITSTRING	1	TREDAXFG	TRE flag byte
		1... ....		TREDAXCC	"B'10000000" Close count adjusted

Comment

The following mapping of the TRESSIWK area is used by SSINOUS for Notify SSI support.

End of Comment

464	(1D0)	ADDRESS	4	TRENUWRK	Addr of NOUSWRK area
468	(1D4)	ADDRESS	4	TRECMB	Addr of CSA CMB created

Comment

THE FOLLOWING MAPPING OF THE TRESSIWK AREA IS USED BY SSIALUNA FOR EXIT 48 SUPPORT.

End of Comment

464	(1D0)	ADDRESS	4	TREDAXPL	CONTAINS POINTER TO XPL
-----	-------	---------	---	----------	-------------------------

Comment

The following mapping of the TRESSIWK area is used by SSISFS for Scheduler Services SSI support.

End of Comment

464	(1D0)	ADDRESS	4	TRESFWRK	Addr of SFSWORK area
468	(1D4)	ADDRESS	4	TRESFRB	Addr of CSA SFRB created

Comment

The following mapping of the TRESSIWK area is used by the HASCJBST JBSELECT routine for the list form of ESTAE.

End of Comment

464	(1D0)	SIGNED	4	(0)	
464	(1D0)	ADDRESS	1	TREJBEST	FLAGS FOR ESTAEX
465	(1D1)	ADDRESS	1		SECOND FLAG BYTE
466	(1D2)	ADDRESS	1		THIRD FLAG BYTE
467	(1D3)	ADDRESS	1		VERSION NUMBER
468	(1D4)	ADDRESS	4		TOKEN VALUE AREA
472	(1D8)	ADDRESS	4		PARAM. LIST ADDR. NOT SPECIFIED
476	(1DC)	ADDRESS	4		ALET FOR PARAM LIST
480	(1E0)	ADDRESS	4		EXIT ADDR NOT SPEC'D
480	(1E0)	X'14'	0	TREJBESL	"*-TREJBEST" Length of ESTAEX parameter list

Comment

The following mapping of the TRESSIWK area is used by the SSIPJCL routine in HASCARMS.

End of Comment

464	(1D0)	ADDRESS	4	TREPJRB	PJCL MTRB
-----	-------	---------	---	---------	-----------

## \$TRE Map

### Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
The following mapping of the TRESSIWK area is used by the SSIUALLOC routine in HASCDALS.					
End of Comment					
464	(1D0)	SIGNED	4	TREJBKEY	Job key for \$CBIO
Comment					
The following mapping of the TRESSIWK area is used by the SSIOUT2 routine in HASCSAPI.					
End of Comment					
464	(1D0)	SIGNED	4	TRESAPIA	SAPI ALET value for SAPID
468	(1D4)	ADDRESS	4	TRESAPID	SAPI address of SAPID
Comment					
The following mapping of the TRESSIWK area is used by the CVDEVID routine in HASCSISC.					
End of Comment					
464	(1D0)	BITSTRING	3	TREVID	Device ID in binary
467	(1D3)	BITSTRING	1		Reserved for future use
468	(1D4)	CHARACTER	18	TREVDNAM	Converted name in EBCDIC
Comment					
The following mapping of the TRESSIWK area is used by the HFEXSPIN routine in HASCDSOC.					
End of Comment					
464	(1D0)	ADDRESS	4	TRESPINS	Address of SDB locked by HFEXSPIN (valid only if TRE5SDBL on)
Comment					
The following mapping of the TRESSIWK area is used by recovery in HASCLINK.					
End of Comment					
464	(1D0)	SIGNED	4	TRERECRA	Holds the retry address
468	(1D4)	SIGNED	4	TRERECSA	Addr of SSI caller's save area
472	(1D8)	SIGNED	4	TRERECFA	Addr of SSI function addr
476	(1DC)	SIGNED	4	TRERECWK	Temp work area for VRADATA
480	(1E0)	SIGNED	2	TRERECFN	Abending SSI function num
482	(1E2)	SIGNED	2		Reserved
484	(1E4)	SIGNED	2	TRERECSC	System ABEND code
486	(1E6)	SIGNED	2	TRERECUC	User ABEND code
488	(1E8)	ADDRESS	4	TRERECAD	Failing/ABEND address
492	(1EC)	ADDRESS	4	TRERECLM	Failing LMT address
496	(1F0)	ADDRESS	4	TRERECCS	Failing MIT/CSECT address
500	(1F4)	SIGNED	4	(4)	Reserved
500	(1F4)	X'34'	0	TRESSIWL	"*-TRESSIWK" Size of SSI work area
520	(208)	DBL WORD	8	TRECRTIM	Time TRE was claimed (made active)
528	(210)	BITSTRING	1	TREFRESA	Basic save area for \$FRETRE



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Make sure the TRE is not smaller than the TRX, since the TRX'es are obtained in the TRE cell pool.					
End of Comment					
680	(2A8)	DBL WORD	8		as TRX
Comment					
Ensure that TREs stay within a page (ie do not cross a page boundary). Round the size to a page boundary minus the GETHP prefix minus the 8 byte guard byte.					
End of Comment					
1008	(3F0)	X'3F0'	0	TRELEN	"*-TRE" LENGTH OF TRE DSECT

**\$TRE Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
TRE	0		TREPJRB	1D0	
TREBNAME	60		TRERB	10	
TREBRNCH	8		TRERCUR	120	
TRECF1SA	128		TREDRDL	10C	C
TRECF1SV	12C	C6F1E2C1	TRERDRDQ	104	104
TRECKEY	5		TRERDRNL	10C	C
TRECMB	1D4		TRERDRNQ	104	104
TRECPOOL	2C		TRERECAD	1E8	
TRECRTIM	208		TRERECCS	1F0	
TRECRTRC	4C		TRERECDW	C8	
TRECSAVE	14		TRERECFA	1D8	
TREDAXCC	1D1	80	TRERECFN	1E0	
TREDAXDT	1D0		TRERECHD	5D	
TREDAXFG	1D1		TRERECHL	5C	
TREDAXPL	1D0		TRERECLM	1EC	
TREDOUB	60		TRERECRA	1D0	
TREDDVID	1D0		TRERECSA	1D4	
TREDDNAM	1D4		TRERECSC	1E4	
TREFINT	6	8000	TRERECUC	1E6	
TREFIRDR	6	8001	TRERECWK	1DC	
TREFLAG1	44		TREREYE	11C	
TREFLAG2	45		TRERNAME	11C	
TREFLAG3	3D		TRERPLRQ	1D4	
TREFLAG4	3E		TRERSAVE	24	
TREFLAG5	4D		TRERSV	3F	
TREFRESA	210		TRESAPDL	10C	C
TREFUNC	6		TRESAPDQ	104	104
TREHCCT	18		TRESAPIA	1D0	
TREID	0	E3D9C540	TRESAPID	1D4	
TREIRWD	1D0		TRESAPNL	10C	C
TREJBESL	1E0	14	TRESAPNQ	104	104
TREJBEST	1D0		TRESAVE	5C	
TREJBKEY	1D0		TRESFRB	1D4	
TREJGDL	10C	C	TRESFWRK	1D0	
TREJGDQ	104	104	TRESJBLK	28	
TREJGNL	10C	C	TRESJBTK	104	
TREJGNQ	104	104	TRESJBTL	119	18
TREKEYSV	30		TRESPINS	1D0	
TRELEN	3F0	3F0	TRESSIBP	1C	
TRENQSTR	104		TRESSIWK	1D0	
TRENUWRK	1D0		TRESSIWL	1F4	34

## \$TRE Cross Reference

Name	Hex Offset	Hex Value
TRESVJDL	10C	C
TRESVJDQ	104	104
TRESVJNL	10C	C
TRESVJNQ	104	104
TRETCB	C	
TRETRDEL	110	C
TRETRDEQ	104	108
TRETRENL	114	C
TRETRENQ	108	10C
TRETRXCR	20	
TREUSECT	3C	
TREUSERA	34	
TREUSERB	38	
TREUSER1	46	
TREVRNUM	4	4
TREVRSN	4	
TREWAITE	40	
TREWTASJ	58	
TREWTAWA	50	
TREX30TP	47	
TRE1NDMP	44	1
TRE1NIRB	44	4
TRE1SENQ	44	10
TRE1SSI	44	20
TRE1STAX	44	2
TRE1TRAC	44	40
TRE1TRAK	44	8
TRE1TYPE	44	80
TRE2CNCL	45	40
TRE2LHLD	45	20
TRE2LKST	45	1
TRE2LKUS	45	4
TRE2LL	45	2
TRE2LOG	45	8
TRE2TERM	45	10
TRE2X33	45	80
TRE3ESTA	3D	4
TRE3JESL	3D	40
TRE3JSLR	3D	80
TRE3PERC	3D	1
TRE3SARR	3D	8
TRE3SJBL	3D	20
TRE3STAX	3D	10
TRE3UANY	3D	2
TRE4BEWT	3E	8
TRE4ENQH	3E	40
TRE4SIRB	3E	2
TRE4SMSG	3E	4
TRE4SSJB	3E	1
TRE4TRNQ	3E	80
TRE4WPUR	3E	20
TRE4WSPN	3E	10
TRE5BLSC	4D	40
TRE5IRDR	4D	80
TRE5SDBL	4D	20

---

## **\$TRX Information**

### **\$TRX Programming Interface information**

\_\_\_\_\_ Programming Interface information \_\_\_\_\_

**\$TRX**

\_\_\_\_\_ End of Programming Interface information \_\_\_\_\_

## Heading Information • \$TRX Map

### \$TRX Heading Information

**Common Name:** TCB Recovery Element Extension  
**Macro ID:** \$TRX  
**DSECT Name:** TRX  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'TRX '  
 Offset: TRXID-TRE  
 Length: 4  
**Storage Attributes:** Subpool: 230  
 Key: 1  
 Residency: Virtual and real storage are anywhere (above or below 16M) in the private storage of the user address space  
**Size:** TRXLEN  
**Created by:** The \$SSIBEGN service creates an initial TRX for a subsystem interface request.  
  
 The \$SAVE service creates an initial TRX for a user environment routine that is called from outside the user environment.  
  
 The \$ESTAE service creates an additional TRX when a new recovery routine is specified.  
**Pointed to by:** TRETRXCR field of the \$TRE data area  
 TRXTPREV field of the \$TRX data area  
**Serialization:** None  
**Function:** Contains recovery-related information for JES2 user-environment routines.

### \$TRX Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TRX	Beginning of the TRX DSECT
0	(0)	CHARACTER	4	TRXID	Eyecatcher of TRX
4	(4)	ADDRESS	1	TRXVRSN	Version field of the TRX
4	(4)	X'3'	0	TRXVRNUM	"3" Current version
5	(5)	BITSTRING	1	TRXRCVRY	Current recovery level
6	(6)	BITSTRING	1	TRXRECNM	Number of \$ERRORs issued
7	(7)	BITSTRING	1	TRXFLAG1	Flag byte 1
		1... ....		TRX1SSI	"B'10000000" TRX represents ESTAE established by \$SSIBEGN
		.1.. ....		TRX1ESTA	"B'01000000" TRX represents ESTAE established by \$ESTAE
		..1. ....		TRX1ESTE	"B'00100000" Associated ESTAE is established
		...1 ....		TRX1RCVY	"B'00010000" In use by RECOVERY - If this bit is on when cancel, percolated
		.... 1...		TRX1PERC	"B'00001000" Percolation required - this flag is for use by \$ESTAE recovery exits
		.... .1..		TRX1NDMP	"B'00000100" Suppress dump
8	(8)	ADDRESS	4	TRXRECAD	Address of recovery exit
12	(C)	ADDRESS	4	TRXRADDR	Retry address vector - 2 byte cnt followed by 4 byte addr
16	(10)	ADDRESS	4	TRXTOKEN	ESTAE token for this ESTAE
20	(14)	ADDRESS	4	TRXPREV	Address of previous TRX
24	(18)	ADDRESS	4	TRXTRE	Address of TRE for this TRX
28	(1C)	ADDRESS	4	TRXUSER1	User field 1
32	(20)	ADDRESS	4	TRXUSER2	User field 2

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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Comment

Next comes a caller address array. This is a 25x8 byte array, with header fields, used to save the addresses of the caller of a routine which issues a \$SAVE macro. This array is used to determine the sequence of calls both for dump analysis, as well as for the \$HASP088 message, in the (unlikely?) event that the JES2 Main Task blows up while executing code in the user environment.

End of Comment

36	(24)	ADDRESS	4	TRXNEXTN	Entry in caller addr array
36	(24)	X'19'	0	TRXNUMEN	"25" Number of entries in array
36	(24)	X'10'	0	TRXCLRLN	"L'TRXCLRAR" Length of a single entry
36	(24)	X'0'	0	TRXCLRAD	"0,4,C'A'" Address of caller of routine
36	(24)	X'4'	0	TRXCLRNM	"4,4,C'A'" Address of called routine name
36	(24)	X'8'	0	TRXCLRLS	"8,4,C'F'" Linkage stack pointer
36	(24)	X'C'	0	TRXCLREX	"12,1,C'X'" Exit number
40	(28)	BITSTRING	16	TRXCLRAR (0)	Caller array
40	(28)	X'28'	0	TRXESTAE	"TRXCLRAR,16*TRXNUMEN" Work area for ESTAE

Comment

Up to 32 bytes of debugging data (for example, a textual footprint) can be stored in field TRXTRACK. The RECOVERY routine in HASCLINK records the contents of this field in the variable recording area (VRA). The actual length of the data must be set in field TRXLOGLN.

End of Comment

440	(1B8)	CHARACTER	32	TRXTRACK	Area for debugging data
472	(1D8)	SIGNED	2	TRXTRACL (0)	Length of debugging data
472	(1D8)	SIGNED	1	TRXLOGWK	Upper byte of length (0)
473	(1D9)	SIGNED	1	TRXLOGLN	Length of data (0-32)
474	(1DA)	BITSTRING	2		Reserved
476	(1DC)	SIGNED	4	TRXLSAD	Linkage stack address TRX was created

Comment

Registers are saved when the \$ESTAE is established in the user environment.

End of Comment

480	(1E0)	SIGNED	4	TRXGRSAV (16)	Low half general registers at time of \$ESTAE invocation
544	(220)	SIGNED	4	TRXGRHSV (16)	High half general registers at time of \$ESTAE invocation
608	(260)	SIGNED	4	TRXARSAV (16)	Access register save area at time of \$ESTAE invocation
672	(2A0)	SIGNED	4	TRXECBTR	ECB used to WAIT forever
672	(2A0)	X'2A4'	0	TRXLEN	"*-TRX"

## \$TRX Cross Reference

### \$TRX Cross Reference

Name	Hex Offset	Hex Value
TRX	0	
TRXARSAV	260	
TRXCLRAD	24	0
TRXCLRAR	28	
TRXCLREX	24	C
TRXCLRLN	24	10
TRXCLRLS	24	8
TRXCLRNM	24	4
TRXECBTR	2A0	
TRXESTAE	28	28
TRXFLAG1	7	
TRXGRHSV	220	
TRXGRSAV	1E0	
TRXID	0	E3D9E740
TRXLEN	2A0	2A4
TRXLOGLN	1D9	
TRXLOGWK	1D8	0
TRXLSAD	1DC	
TRXNEXTN	24	
TRXNUMEN	24	19
TRXPREV	14	
TRXRADDR	C	
TRXRCSVY	5	
TRXRECAD	8	
TRXRECNM	6	
TRXTOKEN	10	
TRXTRACK	1B8	
TRXTRACL	1D8	
TRXTRE	18	
TRXUSER1	1C	
TRXUSER2	20	
TRXVRNUM	4	3
TRXVRSN	4	
TRX1ESTA	7	40
TRX1ESTE	7	20
TRX1NDMP	7	4
TRX1PERC	7	8
TRX1RCVY	7	10
TRX1SSI	7	80

## **\$TTETBL Information**

### **\$TTETBL Heading Information**

<b>Common Name:</b>	TTE Trace Table DSECT
<b>Macro ID:</b>	\$TTETBL
<b>DSECT Name:</b>	TTETBL
<b>Owning Component:</b>	JES2 (SC1BH)
<b>Eye-Catcher ID:</b>	'TTETBL '
	Offset: TTETEYEC
	Length: L'TTETEYEC
<b>Storage Attributes:</b>	Subpool: 231
	Key: 1
	Residency: Virtual is in 31 bit common storage (ESCA), real can be anywhere in 64 bit storage.
<b>Size:</b>	The TTE trace table is variable in size. The total size of the table itself is the number of sections included in the TTE (found in field TTETSCNT) times the length of a table entry (defined by equate TTETENTL). The total size of data referenced by the table is determined by taking the table size calculated above and adding in the size of data referenced by each table entry (in field TTETSDLN).
<b>Created by:</b>	The TTE Trace Table is created by code that wishes to trace data whose DSECTs may vary in size or content across a HOT start. An example is TRACE ID 25, where the TTE Trace Table is created in module HASPFSSM by routine FSMCHKPT when it will issue a ID 25 trace entry. The \$TRACE macro is used to allocate a TTE to contain the trace data, the code in FSMCHKPT then initializes some data and then fills in the TTE Trace Table as it loads sections of trace data into the TTE.
<b>Pointed to by:</b>	The TTE Trace Table is located in the TTEDATA portion of the TTE. Its specific location is determined by the code utilizing the structure. For TRACE ID 25, the TTE Trace Table is located after the register values stored in TTEDATA. There is no specific pointer field identifying its location.
<b>Serialization:</b>	See comments in \$TRACER service for serialization requirements.

## \$TTETBL Heading Information

### Function:

The TTE Trace Table DSECT allows for the assembly or reading of a variable number of sections of trace data, each section which contains a variable amount of data. Use of the TTE Trace Table avoids problems tracing/printing data from control blocks that might have been built using a previous version of the control block structure, which can occur across a hot start. The code responsible for printing the trace data can rely on the section table entries in the TTE Trace Table to define the type of data being traced and its size.

The first field in the table is an 8 byte eyecatcher "TTETBL ". Code that processes the trace data for printing can check for this eyecatcher to verify the data is in a recognizable TTE Trace Table format. The second field in the table is a 2 byte count of sections defined in the table. This will be a constant value defined by the level of FSSM being executed.

Next in the table is an entry per section being traced. Each section will contain an 8 character eyecatcher identifying the section, a 2 byte offset into TTEDATA where the data is stored, then a 2 byte length of data contained in the section.

Note that HASPFSSM and HASPEVTL must have the same list of 8 character section eyecatchers in order for the data to print with the proper headers. If HASPEVTL encounters an eyecatcher it does not recognize it will output the TTE Table entry eyecatcher for the title.

The table will be followed by the sections of data.

The TTE layout will look like this:

```
+-----+
| TTETBL | COUNT OF SECTIONS |          |
|-----|
| SECTION1 EYECATCHER | SECTION1 OFFSET |      |
|-----|
| SECTION1 LENGTH | SECTION2 EYECATCHER | ..... |
|-----|
| ..... |
|-----|
| SECTION1 DATA          |
|-----|
| SECTION2 DATA          |
|          .              |
|          .              |
|          .              |
|          .              |
+-----+
```

Note: The section offset is used in halfword calculations (which are signed), so the total length of a section's data must be x'7FFF' or less.



**\$TTETBL Map**

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TTETBL	TTE Trace Table DSECT
0	(0)	CHARACTER	8	TTETEYEC	TTETBL eyecatcher
8	(8)	SIGNED	2	TTETSCNT	Count of TTE Trace Table Entries
8	(8)	X'A'	0	TTETBLH	"*TTETBL" Length of TTE Table header
10	(A)	SIGNED	2	TTETTENT (0)	TTE Trace Table Entry
10	(A)	CHARACTER	8	TTETSEYE	TTE trace section type eyecatcher
18	(12)	SIGNED	2	TTETSOFF	TTE trace section offset into TTEDATA where the section data is located
20	(14)	SIGNED	2	TTETSDLN	TTE Trace section data len
20	(14)	X'C'	0	TTETENTL	"*TTETTENT" TTE Trace Table Entry Len
20	(14)	X'8'	0	TTEEYELN	"L'TTETSEYE" Length of eyecatcher
20	(14)	X'1C'	0	TTEHDRLN	"28" Length of trace output header used in EVTL

**\$TTETBL Cross Reference**

Name	Hex Offset	Hex Value
TTEEYELN	14	8
TTEHDRLN	14	1C
TTETBL	0	
TTETBLH	8	A
TTETENTL	14	C
TTETEYEC	0	E3E3C5E3
TTETSCNT	8	
TTETSDLN	14	
TTETSEYE	A	
TTETSOFF	12	
TTETTENT	A	

## \$TTETBL Cross Reference

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## \$WARMWRK Information

### \$WARMWRK Programming Interface information

Programming Interface information

\$WARMWRK

End of Programming Interface information

## Heading Information • \$WARMWRK Map

### \$WARMWRK Heading Information

**Common Name:** JES2 Warm Start PCE Work Area  
**Macro ID:** \$WARMWRK  
**DSECT Name:** PCE (\$WARMWRK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4

**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE

**Size:** See symbol WRMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

**Created by:** For the mother PCEs, see \$PCE  
 For daughter PCEs, the PCE is created by \$PCEDYN. Daughter PCEs are created while processing JQEs during warm start. The daughter PCEs are deleted before warm start is complete.

**Pointed to by:** The \$WARMPC field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first warm start PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See \$PCE for other pointer fields that apply to all PCE types.

**Serialization:** Normal PCE dispatch serialization

**Function:** The fields in this work area are used by a JES2 warm start Processor and by its support routines and exits. \$WARMWRK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$WARMWRK are actually part of the PCE DSECT, but only map PCEs with the value PCEWRMID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

### \$WARMWRK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP WARM START PROCESSOR
312	(138)	BITSTRING	12	WRMTQE	TIMER QUEUE ELEMENT
324	(144)	ADDRESS	4	WRMCYLMP	ADDR OF TRK ALLOCATE WORK AREA
328	(148)	ADDRESS	4	WRMTGM	ADDRESS OF TEMP TRACK GROUP MAP
332	(14C)	ADDRESS	4	WRMTGML	LENGTH OF TEMP TRACK GROUP MAP
336	(150)	ADDRESS	4	WRMJCTBF	JCT BUFFER ADDRESS
340	(154)	ADDRESS	4	WRMIOTBF	IOT buffer address
344	(158)	SIGNED	4	WRMMTTR	SAVE AREA FOR MTTR
348	(15C)	SIGNED	4	WRMMTTRD	Save area for MTTR
352	(160)	SIGNED	4	WRMMONXT	MTTR of IOT after mother
356	(164)	SIGNED	4	WRMMOCUR	MTTR of current Mother IOT
360	(168)	BITSTRING	5	WRMWMQT	MQT work area
365	(16D)	BITSTRING	3		Reserved
368	(170)	ADDRESS	4	WRMWCA	Addr warm start comm area
372	(174)	ADDRESS	4	WRMOTHER	Addr of mother warm start PCE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
376	(178)	ADDRESS	4	WRMESYSQ	Addr of \$E SYS QSE
380	(17C)	SIGNED	4	WRMDOMID	DOMID for HASP493
384	(180)	ADDRESS	4	WRMWSJQE	Single JQE to warm start
388	(184)	ADDRESS	4	WRMJQE	Current JQA
392	(188)	SIGNED	4	WRMJQEOF	Offset of current real JQE
396	(18C)	BITSTRING	32	WRMSUMSK	JOB SPLS USED MASK BUILD AREA
428	(1AC)	BITSTRING	8	WRMSDOWN	SYSTEM DOWN TABLE
436	(1B4)	SIGNED	2	WRMNRDAU	Number of daughter PCEs
438	(1B6)	BITSTRING	1		Reserved for future use
439	(1B7)	BITSTRING	1	WRMFLAG1	WARM START PROCESSOR STATUS BYTE
		1... ....		WRM1PCEM	"B'10000000" This is a mother PCE
		.1.. ....		WRM1PCED	"B'01000000" This is a daughter PCE
		..1. ....		WRM1RERD	"B'00100000" SET TO READ BOTH CHAINS OF IOTS
		...1 ....		WRM1UNSP	"B'00010000" UNSPUN IOT EXISTS FOR JOB
		.... 1...		WRM1RDER	"B'00001000" JCT READ ERROR OCCURRED
		.... .1..		WRM1CLSQ	"B'00000100" Called from class queue
		.... ..1.		WRM1JQEJ	"B'00000010" RUNNING JQE JOE CHAIN FOR JOB
		.... ...1		WRM1HLDQ	"B'00000001" Called from Hold queue
440	(1B8)	ADDRESS	4	WRMCHKBF	CHK I/O BUFFER ADDRESS
444	(1BC)	BITSTRING	1	WRMFLAG2	WARM START JOB STATUS FLAG
		1... ....		WRM2TEST	"B'10000000" REQUEUE JOB AFTER MORE TESTING
		.1.. ....		WRM2PURG	"B'01000000" REQUEUE JOB FOR PURGE
		..1. ....		WRM2NSPL	"B'00100000" SPOOL NOT AVAILABLE
		...1 ....		WRM2STRT	"B'00010000" REQUEUE STARTING STC/TSU JOB
		.... 1...		WRM2NBSY	"B'00001000" REQUEUE NON-BUSY JOB
		.... ..1.		WRM2JERR	"B'00000100" JOB HAS JCT ERROR
		.... ...1.		WRM2QREM	"B'00000010" Remove job from the system
		.... ...1		WRM2MTTR	"B'00000001" UPDATE JOB'S SPOOLS USED MASK FROM THE MTTR
445	(1BD)	BITSTRING	1	WRMFLAG3	WARM START FLAG BYTE 3
		1... ....		WRM3SIOT	"B'10000000" SPIN IOT TO BE READ
		.1.. ....		WRM3DAUG	"B'01000000" Daughter IOT to process
		..1. ....		WRM3MACT	"B'00100000" Mother PCE which is active
		...1 ....		WRM3NICN	"B'00010000" Not in init continuation
		.... 1...		WRM3PJOE	"B'00001000" Processing JOE purge queue
		.... .1..		WRM3LOCK	"B'00000100" Warm start lock acquired
		.... ..1.		WRM3DUPS	"B'00000010" Duplicate jobs released
		.... ...1		WRM3RJOE	"B'00000001" Processing JOE rebuild que
446	(1BE)	BITSTRING	1	WRMTYPE	Warm start type (bits are the same as those defined for \$WARMTYP)
447	(1BF)	BITSTRING	1	WRMFLAG4	Warm Start flag byte 4
		1... ....		WRM4E58S	"B'10000000" ENF58 signal should not be issued when a JOE is \$#PUT back onto the queue
		.1.. ....		WRM4NQIK	"B'01000000" This member not quick startable => AMWS abort
		..1. ....		WRM4AMWS	"B'00100000" This warmstart began as all member type
		...1 ....		WRM4ALIC	"B'00010000" Work found for ALICE
		.... 1...		WRM4DONE	"B'00001000" Job already disposed of
		.... ..1.		WRM4JLOK	"B'00000100" Job lock acquired
		.... ...1.		WRM4JNSX	"B'00000010" JOE on spin device but not in SPIN or XEQ Q or single job warm start
		.... ...1		WRM4FAIL	"B'00000001" \$E MEMBER failed (only on in mother PCE)
448	(1C0)	BITSTRING	1	WRMSTAT1	Job state flag (See \$WR1xxxx in HASPWARM)
449	(1C1)	BITSTRING	1	WRMFLAG5	Warm Start flag byte 5
		1... ....		WRM5JODL	"B'10000000" JOE was deleted
		.1.. ....		WRM5NXST	"B'01000000" SPOOL does not exist
450	(1C2)	BITSTRING	6		Reserved for future use
456	(1C8)	ADDRESS	4	WRMBLOB	Address of temporary checkpointed BLOB
460	(1CC)	SIGNED	4	WRMJQEFA	Number of JQE warmstart failures
464	(1D0)	SIGNED	4	WRMQECB (0)	Confirm start msg ecb
488	(1E8)	CHARACTER	9	WRMQREPL	Confirm start reply area

## \$WARMWRK Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
----- \$BLDMSG MF=L List form of \$BLDMSG					
End of Comment					
500	(1F4)	SIGNED	4	WRMBLMSG (0)	Control block ID
504	(1F8)	BITSTRING	4		Console ID
508	(1FC)	ADDRESS	4		Address of the CART
512	(200)	ADDRESS	4		Pointer for JOBID
516	(204)	ADDRESS	4		Control block address
520	(208)	ADDRESS	4		Display routine address
524	(20C)	ADDRESS	4	(6)	6 word work area
548	(224)	ADDRESS	4		Caller's R11 value
552	(228)	BITSTRING	2		ROUT code for Message
554	(22A)	BITSTRING	2		Not used
556	(22C)	CHARACTER	4		Message ID
560	(230)	CHARACTER	1		Separator character
561	(231)	ADDRESS	1		Flag byte 1
562	(232)	ADDRESS	1		'DISPER'
563	(233)	ADDRESS	1		Flag byte 2
564	(234)	ADDRESS	1		Flag byte 3
565	(235)	CHARACTER	8		Symbolic name of dest.
573	(23D)	BITSTRING	15		Not used
588	(24C)	ADDRESS	4	(0)	Ensure multiple of 4
588	(24C)	ADDRESS	2	(0)	
588	(24C)	SIGNED	4	(0)	Align on fullword boundary
588	(24C)	BITSTRING	20	WRM\$\$SIR	\$IOTERR parameter list
608	(260)	SIGNED	4	(0)	ALIGN WARM PCE WORK AREA
608	(260)	X'128'	0	WRMPCEWS	**-'PCEWORK' LENGTH OF PCE WORK AREA

## \$WARMWRK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PCE	0		WRMSUMSK	18C	
WRM\$\$SIR	24C		WRMTGM	148	
WRMBLMSG	1F4	C2D3C440	WRMTGML	14C	
WRMBLOB	1C8		WRMTQE	138	
WRMCHKBF	1B8		WRMTYPE	1BE	
WRMCYLMP	144		WRMWCA	170	
WRMDOMID	17C		WRMWMQT	168	
WRMESYSQ	178		WRMWSJQE	180	
WRMFLAG1	1B7		WRM1CLSQ	1B7	4
WRMFLAG2	1BC		WRM1HLDQ	1B7	1
WRMFLAG3	1BD		WRM1JQEJ	1B7	2
WRMFLAG4	1BF		WRM1PCED	1B7	40
WRMFLAG5	1C1		WRM1PCEM	1B7	80
WRMIOTBF	154		WRM1RDER	1B7	8
WRMJCTBF	150		WRM1RERD	1B7	20
WRMJQE	184		WRM1UNSP	1B7	10
WRMJQEFA	1CC		WRM2JERR	1BC	4
WRMJQEOF	188		WRM2MTTR	1BC	1
WRMMOCUR	164		WRM2NBSY	1BC	8
WRMMONXT	160		WRM2NSPL	1BC	20
WRMMTTR	158		WRM2PURG	1BC	40
WRMMTTRD	15C		WRM2QREM	1BC	2
WRMNRDAU	1B4		WRM2STRT	1BC	10
WRMOTHER	174		WRM2TEST	1BC	80
WRMPCEWS	260	128	WRM3DAUG	1BD	40
WRMQECB	1D0		WRM3DUPS	1BD	2
WRMQREPL	1E8	40404040	WRM3LOCK	1BD	4
WRMSDOWN	1AC	0	WRM3MACT	1BD	20
WRMSTAT1	1C0		WRM3NICN	1BD	10

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
WRM3PJOE	1BD	8
WRM3RJOE	1BD	1
WRM3SIOT	1BD	80
WRM4ALIC	1BF	10
WRM4AMWS	1BF	20
WRM4DONE	1BF	8
WRM4E58S	1BF	80
WRM4FAIL	1BF	1
WRM4JLOK	1BF	4
WRM4JNSX	1BF	2
WRM4NQIK	1BF	40
WRM5JODL	1C1	80
WRM5NXST	1C1	40

## \$WARMWRK Cross Reference



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## \$WAVE Information

### \$WAVE Programming Interface information

Programming Interface information

\$WAVE

End of Programming Interface information

## Heading Information • \$WAVE Map

### \$WAVE Heading Information

**Common Name:** Work Access Verification Element  
**Macro ID:** \$WAVE  
**DSECT Name:** WAVE  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'WAVE'  
 Offset: WAVEID-WAVE  
 Length: 4  
**Storage Attributes:** Subpool: 0 (if done as part of \$GETWORK); 6 (In JES2 initialization); 229 (At all other times)  
 Key: 1  
 Residency: Virtual and real storage are anywhere (above or below 16M) in the private storage of the JES2 or the User address spaces.  
**Size:** See WAVLEN  
**Created by:** Caller of \$SEAS  
**Pointed to by:** SQDPARM1 field of the \$SQD data area if the \$SEAS request was issued from the Main Task.  
 PCEWAVE field of the \$PCE data area.  
**Serialization:** None  
**Function:** The Work Access Verification Element is the parameter list for the \$RACROUT routine. It contains the list forms of the RACROUTE request types used by JES2.

### \$WAVE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	WAVE	
0	(0)	CHARACTER	4	WAVEID	Control block ID
4	(4)	ADDRESS	1	WAVLEVEL	Control block version
		.... ...1		WAVERSN	"X'01" Control block version equate
5	(5)	BITSTRING	1	WAVEPRIO	Priority of request
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	4	WAVESQD	Address of SQD
12	(C)	SIGNED	4	WAVRETCD	\$RACROUT return code
16	(10)	SIGNED	4	WAVRSNCD	\$RACROUT reason code
20	(14)	SIGNED	4	WAVRACRC	RACROUTE service return code
24	(18)	SIGNED	4	WAVRACCD	RACROUTE service reason code
28	(1C)	CHARACTER	4	WAVRCBN	Acronym of function related control block
32	(20)	ADDRESS	4	WAVRCBA	Address of function related control block
36	(24)	BITSTRING	1	WAVFUNCD	Function code Exits 36/37
37	(25)	BITSTRING	3		Reserved
40	(28)	ADDRESS	4	WAVJMSKA	Job mask address for Exit 36/37
44	(2C)	BITSTRING	1	WAVEXITP	Exit 36/37 indicators
		1... ....		WAVXJ2C	"B'10000000" \$SEAS JES2 coder
		.1.. ....		WAVXUSR	"B'01000000" \$SEAS user coder
		..1. ....		WAVXMSGA	"B'00100000" Message addr for \$HASP077
		...1 ....		WAVXFNCD	"B'00010000" Function code for \$HASP077
45	(2D)	SIGNED	1	WAVREQST	Request indicators
45	(2D)	X'1'	0	WAVRAUTH	"1" RACROUTE REQUEST=AUTH
45	(2D)	X'2'	0	WAVRTBLD	"2" RACROUTE REQUEST=TOKENBLD
45	(2D)	X'3'	0	WAVRTMAP	"3" RACROUTE REQUEST=TOKENMAP
45	(2D)	X'4'	0	WAVRTXTR	"4" RACROUTE REQUEST=TOKENXTR
45	(2D)	X'5'	0	WAVRVFYX	"5" RACROUTE REQUEST=VERIFYX
45	(2D)	X'6'	0	WAVRVFYC	"6" RACROUTE REQUEST=VERIFY CREATE
45	(2D)	X'7'	0	WAVRVFYD	"7" RACROUTE REQUEST=VERIFY DELETE
45	(2D)	X'8'	0	WAVRCMD	"8" CMDAUTH SERVICE
45	(2D)	X'9'	0	WAVRXTRT	"9" RACROUTE REQUEST=EXTRACT
45	(2D)	X'A'	0	WAVRAUD	"10" RACROUTE REQUEST=AUDIT

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
45	(2D)	X'B'	0	WAVRXTRB	"11" RACROUTE REQUEST=EXTRACT, BRANCH=YES
45	(2D)	X'C'	0	WAVRDIRA	"12" RACROUTE REQUEST=DIRAUTH
46	(2E)	BITSTRING	2		Reserved for future use
48	(30)	SIGNED	4	(0)	
48	(30)	BITSTRING	1	WAVFLAG1	Flags
		1... ....		WAV1SUBF	"B'10000000" Subtasking \$RACROUT failed
		.1.. ....		WAV1WAIT	"B'01000000" WAIT=YES requested
		.... ..1.		WAV1NCOD	"B'00000010" User return code to be used
		.... ...1		WAV1BYP5	"B'00000001" SAF call to be bypassed
49	(31)	BITSTRING	3		Reserved
52	(34)	SIGNED	4	WAVEXTLA	Address of extract list
56	(38)	BITSTRING	4		Reserved
60	(3C)	SIGNED	4	(0)	Align user reserved word
60	(3C)	BITSTRING	4	WAVURSV	Reserved for user

Comment

RACROUTE REQUEST=AUTH,MF=L,RELEASE=1.9

End of Comment

64	(40)	SIGNED	4	WAVRACRP (0)	
64	(40)	X'40'	0	IHB1389A	***
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01398	***
168	(A8)	ADDRESS	1	IHB1389C	LENGTH OF RACHECK PARAMETER LIST
169	(A9)	ADDRESS	3		
172	(AC)	BITSTRING	1		
173	(AD)	ADDRESS	3		
176	(B0)	BITSTRING	1		
177	(B1)	ADDRESS	3		
180	(B4)	BITSTRING	1		3RD FLAGS
181	(B5)	ADDRESS	3		
184	(B8)	ADDRESS	4		- OLD VOLSER ADDR FIELD

# \$WAVE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
188	(BC)	ADDRESS	4		- APPL ADDRESS
192	(C0)	ADDRESS	4		- ACEE ADDRESS
196	(C4)	ADDRESS	4		- OWNER ADDRESS.
200	(C8)	ADDRESS	4		ADDRESS OF INSTALLATION DATA
204	(CC)	ADDRESS	4		ENTITY OR PROFILE ADDRESS FIELD
208	(D0)	ADDRESS	4		CLASS NAME ADDRESS FIELD
212	(D4)	ADDRESS	4		VOLSER ADDR FIELD
216	(D8)	ADDRESS	4		- ACCESS VALUE ADDRESS.
220	(DC)	ADDRESS	4		- 2ND ACCESS ADDRESS.
224	(E0)	ADDRESS	2		FILESEQ
226	(E2)	BITSTRING	1		
227	(E3)	BITSTRING	1		
228	(E4)	ADDRESS	4		- USER NAME ADDRESS
232	(E8)	ADDRESS	4		- GROUP NAME ADDRESS
236	(EC)	ADDRESS	4		- DDNAME ADDRESS
240	(F0)	ADDRESS	4		- RESERVED
244	(F4)	ADDRESS	4		- UTOKEN ADDRESS
248	(F8)	ADDRESS	4		- RTOKEN ADDRESS
252	(FC)	ADDRESS	4		- LOGSTR ADDRESS
256	(100)	ADDRESS	4		- RECEIVER ADDRESS

Comment

RACROUTE REQUEST=TOKENBLD,MF=L,RELEASE=1.9

End of Comment

64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1399A	***
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01408	***
168	(A8)	ADDRESS	1	IHB1399C	LIST LENGTH
169	(A9)	ADDRESS	1		NO SUBPOOL SPECIFIED
170	(AA)	BITSTRING	1		

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
171	(AB)	BITSTRING	1		
172	(AC)	ADDRESS	4		- USERID ADDRESS FIELD
176	(B0)	ADDRESS	4		- PASSWORD ADDRESS FIELD
180	(B4)	ADDRESS	4		- PROCEDURE NAME ADDR FIELD
184	(B8)	ADDRESS	4		- INSTALLATION PARAMETERS ADDRESS
188	(BC)	ADDRESS	4		- GROUP ADDRESS FIELD
192	(C0)	ADDRESS	4		- NEW PASSWORD ADDRESS FIELD
196	(C4)	ADDRESS	4		- PGMNAME ADDRESS FIELD
200	(C8)	ADDRESS	4		- ACTINFO ADDRESS FIELD
204	(CC)	ADDRESS	4		- OIDCARD ADDRESS FIELD
208	(D0)	ADDRESS	4		- TERMID ADDRESS FIELD
212	(D4)	ADDRESS	4		- JOBNAME ADDRESS FIELD
216	(D8)	ADDRESS	4		- APPL ADDRESS FIELD
220	(DC)	ADDRESS	4		- ACEE ADDRESS FIELD
224	(E0)	ADDRESS	1		SESSION
225	(E1)	BITSTRING	1		FLAG2
226	(E2)	BITSTRING	1		MISC FLAG (INITFLG3)
227	(E3)	ADDRESS	1		FUTURE USE
228	(E4)	ADDRESS	4		- SECLABL ADDRESS FIELD
232	(E8)	ADDRESS	4		- EXENODE ADDRESS FIELD
236	(EC)	ADDRESS	4		- SUSERID ADDRESS FIELD
240	(F0)	ADDRESS	4		- SNODE ADDRESS FIELD
244	(F4)	ADDRESS	4		- SGROUP ADDRESS FIELD
248	(F8)	ADDRESS	4		- POE ADDRESS FIELD
252	(FC)	ADDRESS	4		- INPUT TOKEN ADDRESS
256	(100)	ADDRESS	4		- STOKEN ADDRESS FIELD
260	(104)	ADDRESS	4		- LOGSTR ADDRESS FIELD
264	(108)	ADDRESS	4		- OUTPUT TOKEN ADDRESS

Comment

RACROUTE REQUEST=TOKENMAP,MF=L,RELEASE=1.9

End of Comment

64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1409A	***
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		

## \$WAVE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01418	***
168	(A8)	ADDRESS	4	IHB1409C	- TOKNIN Address
172	(AC)	ADDRESS	4		- ACEE Address
176	(B0)	ADDRESS	4		- TOKNOUT Address
180	(B4)	BITSTRING	1		- Flag byte
181	(B5)	BITSTRING	1		- Reserved
182	(B6)	ADDRESS	2		- TOKENSRV plist len
184	(B8)	BITSTRING	8		- Reserved
192	(C0)	SIGNED	2	ICH1418A (0)	

Comment

RACROUTE REQUEST=TOKENXTR,MF=L,RELEASE=1.9

End of Comment

64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1419A	***
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01428	***
168	(A8)	ADDRESS	4	IHB1419C	- TOKNIN Address
172	(AC)	ADDRESS	4		- ACEE Address
176	(B0)	ADDRESS	4		- TOKNOUT Address
180	(B4)	BITSTRING	1		- Flag byte
181	(B5)	BITSTRING	1		- Reserved
182	(B6)	ADDRESS	2		- TOKENSRV plist len
184	(B8)	BITSTRING	8		- Reserved
192	(C0)	SIGNED	2	ICH1428A (0)	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
RACROUTE REQUEST=VERIFYX,MF=L,RELEASE=1.9					
End of Comment					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1429A	***
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01438	***
168	(A8)	ADDRESS	1	IHB1429C	LIST LENGTH
169	(A9)	ADDRESS	1		NO SUBPOOL SPECIFIED
170	(AA)	BITSTRING	1		
171	(AB)	BITSTRING	1		
172	(AC)	ADDRESS	4		- USERID ADDRESS FIELD
176	(B0)	ADDRESS	4		- PASSWORD ADDRESS FIELD
180	(B4)	ADDRESS	4		- PROCEDURE NAME ADDR FIELD
184	(B8)	ADDRESS	4		- INSTALLATION PARAMETERS ADDRESS
188	(BC)	ADDRESS	4		- GROUP ADDRESS FIELD
192	(C0)	ADDRESS	4		- NEW PASSWORD ADDRESS FIELD
196	(C4)	ADDRESS	4		- PGMNAME ADDRESS FIELD
200	(C8)	ADDRESS	4		- ACTINFO ADDRESS FIELD
204	(CC)	ADDRESS	4		- OIACARD ADDRESS FIELD
208	(D0)	ADDRESS	4		- TERMID ADDRESS FIELD
212	(D4)	ADDRESS	4		- JOBNAME ADDRESS FIELD
216	(D8)	ADDRESS	4		- APPL ADDRESS FIELD
220	(DC)	ADDRESS	4		- ACEE ADDRESS FIELD
224	(E0)	ADDRESS	1		SESSION
225	(E1)	BITSTRING	1		FLAG2
226	(E2)	BITSTRING	1		MISC FLAG (INITFLG3)
227	(E3)	ADDRESS	1		FUTURE USE
228	(E4)	ADDRESS	4		- SECLABL ADDRESS FIELD
232	(E8)	ADDRESS	4		- EXENODE ADDRESS FIELD

# \$WAVE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
236	(EC)	ADDRESS	4		- SUSERID ADDRESS FIELD
240	(F0)	ADDRESS	4		- SNODE ADDRESS FIELD
244	(F4)	ADDRESS	4		- SGROUP ADDRESS FIELD
248	(F8)	ADDRESS	4		- POE ADDRESS FIELD
252	(FC)	ADDRESS	4		- INPUT TOKEN ADDRESS
256	(100)	ADDRESS	4		- STOKEN ADDRESS FIELD
260	(104)	ADDRESS	4		- LOGSTR ADDRESS FIELD
264	(108)	ADDRESS	4		- OUTPUT TOKEN ADDRESS
Comment					
RACROUTE REQUEST=VERIFY,ENVIR=CREATE,MF=L,RELEASE=1.9					
End of Comment					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1439A	***
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01448	***
168	(A8)	ADDRESS	1	IHB1439C	LIST LENGTH
169	(A9)	ADDRESS	1		NO SUBPOOL SPECIFIED
170	(AA)	BITSTRING	1		
171	(AB)	BITSTRING	1		
172	(AC)	ADDRESS	4		- USERID ADDRESS FIELD
176	(B0)	ADDRESS	4		- PASSWORD ADDRESS FIELD
180	(B4)	ADDRESS	4		- PROCEDURE NAME ADDR FIELD
184	(B8)	ADDRESS	4		- INSTALLATION PARAMETERS ADDRESS
188	(BC)	ADDRESS	4		- GROUP ADDRESS FIELD
192	(C0)	ADDRESS	4		- NEW PASSWORD ADDRESS FIELD
196	(C4)	ADDRESS	4		- PGMNAME ADDRESS FIELD
200	(C8)	ADDRESS	4		- ACTINFO ADDRESS FIELD
204	(CC)	ADDRESS	4		- OIICARD ADDRESS FIELD
208	(D0)	ADDRESS	4		- TERMIID ADDRESS FIELD
212	(D4)	ADDRESS	4		- JOBNAME ADDRESS FIELD



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
216	(D8)	ADDRESS	4		- APPL ADDRESS FIELD
220	(DC)	ADDRESS	4		- ACEE ADDRESS FIELD
224	(E0)	ADDRESS	1		SESSION
225	(E1)	BITSTRING	1		FLAG2
226	(E2)	BITSTRING	1		MISC FLAG (INITFLG3)
227	(E3)	ADDRESS	1		FUTURE USE
228	(E4)	ADDRESS	4		- SECLABL ADDRESS FIELD
232	(E8)	ADDRESS	4		- EXENODE ADDRESS FIELD
236	(EC)	ADDRESS	4		- SUSERID ADDRESS FIELD
240	(F0)	ADDRESS	4		- SNODE ADDRESS FIELD
244	(F4)	ADDRESS	4		- SGROUP ADDRESS FIELD
248	(F8)	ADDRESS	4		- POE ADDRESS FIELD
252	(FC)	ADDRESS	4		- INPUT TOKEN ADDRESS
256	(100)	ADDRESS	4		- STOKEN ADDRESS FIELD
260	(104)	ADDRESS	4		- LOGSTR ADDRESS FIELD
264	(108)	ADDRESS	4		- OUTPUT TOKEN ADDRESS

Comment

RACROUTE REQUEST=VERIFY,ENVIR=DELETE,MF=L,RELEASE=1.9

End of Comment

64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1449A	***
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01458	***
168	(A8)	ADDRESS	1	IHB1449C	LIST LENGTH
169	(A9)	ADDRESS	1		NO SUBPOOL SPECIFIED
170	(AA)	BITSTRING	1		
171	(AB)	BITSTRING	1		
172	(AC)	ADDRESS	4		- USERID ADDRESS FIELD
176	(B0)	ADDRESS	4		- PASSWORD ADDRESS FIELD
180	(B4)	ADDRESS	4		- PROCEDURE NAME ADDR FIELD

# \$WAVE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
184	(B8)	ADDRESS	4		- INSTALLATION PARAMETERS ADDRESS
188	(BC)	ADDRESS	4		- GROUP ADDRESS FIELD
192	(C0)	ADDRESS	4		- NEW PASSWORD ADDRESS FIELD
196	(C4)	ADDRESS	4		- PGMNAME ADDRESS FIELD
200	(C8)	ADDRESS	4		- ACTINFO ADDRESS FIELD
204	(CC)	ADDRESS	4		- OIACARD ADDRESS FIELD
208	(D0)	ADDRESS	4		- TERMID ADDRESS FIELD
212	(D4)	ADDRESS	4		- JOBNAME ADDRESS FIELD
216	(D8)	ADDRESS	4		- APPL ADDRESS FIELD
220	(DC)	ADDRESS	4		- ACEE ADDRESS FIELD
224	(E0)	ADDRESS	1		SESSION
225	(E1)	BITSTRING	1		FLAG2
226	(E2)	BITSTRING	1		MISC FLAG (INITFLG3)
227	(E3)	ADDRESS	1		FUTURE USE
228	(E4)	ADDRESS	4		- SECLABL ADDRESS FIELD
232	(E8)	ADDRESS	4		- EXENODE ADDRESS FIELD
236	(EC)	ADDRESS	4		- SUSERID ADDRESS FIELD
240	(F0)	ADDRESS	4		- SNODE ADDRESS FIELD
244	(F4)	ADDRESS	4		- SGROUP ADDRESS FIELD
248	(F8)	ADDRESS	4		- POE ADDRESS FIELD
252	(FC)	ADDRESS	4		- INPUT TOKEN ADDRESS
256	(100)	ADDRESS	4		- STOKEN ADDRESS FIELD
260	(104)	ADDRESS	4		- LOGSTR ADDRESS FIELD
264	(108)	ADDRESS	4		- OUTPUT TOKEN ADDRESS

Comment

RACROUTE REQUEST=EXTRACT,TYPE=EXTRACT,MF=L,RELEASE=1.9

End of Comment

64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1459A	***
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
168	(A8)	SIGNED	4	IHB1459C (0)	
168	(A8)	SIGNED	4	ICH1468A (0)	
168	(A8)	ADDRESS	2		LENGTH OF LIST IN BYTES
170	(AA)	BITSTRING	1		FUNCTION CODE FOR ICHRSV00
171	(AB)	ADDRESS	1		REQUEST TYPE
172	(AC)	ADDRESS	1		VERSION NUMBER
173	(AD)	BITSTRING	1		
174	(AE)	ADDRESS	2		OFFSET TO VARIABLE PART OF LIST
176	(B0)	ADDRESS	4		
176	(B0)	X'B4'	0	ICH1468B	*** END OF FIXED PART
180	(B4)	ADDRESS	4		
184	(B8)	ADDRESS	4		
188	(BC)	ADDRESS	4		
192	(C0)	ADDRESS	4		
196	(C4)	ADDRESS	4		
200	(C8)	ADDRESS	4		
204	(CC)	ADDRESS	4		
208	(D0)	ADDRESS	2		RESERVED
210	(D2)	BITSTRING	1		
211	(D3)	BITSTRING	1		
212	(D4)	SIGNED	2	ICH1468C (0)	END OF PARAMETER LIST
212	(D4)	SIGNED	2	ICH1468D (0)	

Comment

RACROUTE REQUEST=EXTRACT,TYPE=EXTRACT,BRANCH=YES,  
MF=L,RELEASE=1.9

End of Comment

64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1477A	***
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	SIGNED	4	IHB1477C (0)	

# \$WAVE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
168	(A8)	SIGNED	4	ICH1486A (0)	
168	(A8)	ADDRESS	2		LENGTH OF LIST IN BYTES
170	(AA)	BITSTRING	1		FUNCTION CODE FOR ICHRSV00
171	(AB)	ADDRESS	1		REQUEST TYPE
172	(AC)	ADDRESS	1		VERSION NUMBER
173	(AD)	BITSTRING	1		
174	(AE)	ADDRESS	2		OFFSET TO VARIABLE PART OF LIST
176	(B0)	ADDRESS	4		
176	(B0)	X'B4'	0	ICH1486B	*** END OF FIXED PART
180	(B4)	ADDRESS	4		
184	(B8)	ADDRESS	4		
188	(BC)	ADDRESS	4		
192	(C0)	ADDRESS	4		
196	(C4)	ADDRESS	4		
200	(C8)	ADDRESS	4		
204	(CC)	ADDRESS	4		
208	(D0)	ADDRESS	2		RESERVED
210	(D2)	BITSTRING	1		
211	(D3)	BITSTRING	1		
212	(D4)	SIGNED	2	ICH1486C (0)	END OF PARAMETER LIST
212	(D4)	SIGNED	2	ICH1486D (0)	

Comment

RACROUTE REQUEST=AUDIT,MF=L,RELEASE=1.9

End of Comment

64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1495A	***
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	IHB1495C (0)	START OF RACAUDIT PLIST
168	(A8)	ADDRESS	2	ICH1504B	VERSION
170	(AA)	ADDRESS	2		LENGTH
172	(AC)	ADDRESS	4		

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
176	(B0)	ADDRESS	2		EVENT QUALIFIER
178	(B2)	ADDRESS	2		RESERVED
180	(B4)	ADDRESS	4		
184	(B8)	ADDRESS	4		
188	(BC)	ADDRESS	4		
192	(C0)	ADDRESS	4		
196	(C4)	ADDRESS	1		RESULT BYTE
197	(C5)	ADDRESS	3		RESERVED
200	(C8)	SIGNED	4	(4)	RESERVED
216	(D8)	SIGNED	2	ICH1504F (0)	END OF RACAUDIT PLIST

Comment

RACROUTE REQUEST=DIRAUTH,RESCSECLABEL=,  
RELEASE=7740,MF=L

End of Comment

64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1510A	***
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 7740
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01519	***
168	(A8)	BITSTRING	1	IHB1510C	LOG value
169	(A9)	ADDRESS	1		Parmlist version
170	(AA)	ADDRESS	2		Parmlist length
172	(AC)	ADDRESS	4		- RTOKEN Address
176	(B0)	BITSTRING	1		TYPE Value
177	(B1)	BITSTRING	1		ACCESS Value
178	(B2)	BITSTRING	1	(2)	Reserved
180	(B4)	ADDRESS	4		Classname address
184	(B8)	ADDRESS	4		RESCSECLABEL address
188	(BC)	ADDRESS	4		USERSECLABEL address
192	(C0)	ADDRESS	4		ACEE address
196	(C4)	ADDRESS	4		ACEEALET address

## \$WAVE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
200	(C8)	ADDRESS	4		LOGSTR address
268	(10C)	X'CC'	0	WAVRACLN	""-WAVRACRP" Length of longest parmlist
Comment					
Parameters for use with CMDAUTH					
-----					
Parm area used with \$SEAS call					
-----					
End of Comment					
64	(40)	SIGNED	4	(0)	
64	(40)	ADDRESS	4	WAVCCRN	Command Resource Name addr
68	(44)	ADDRESS	4	WAVCTKN	ToKeN addr of cmd issuer
72	(48)	ADDRESS	4	WAVCTXT	Addr of command TeXT (preceded by a one byte length field
76	(4C)	ADDRESS	4	WAVCSSCM	Addr of SSCM
80	(50)	ADDRESS	4	WAVCARTA	Addr of command CART
84	(54)	BITSTRING	1	WAVCACL	Command ACess Level
		.... 1...		WAVCNTRL	"B'00001000" Control (system)
		.... .1..		WAVCUPD	"B'00000100" Update (job, device)
		.... ..1.		WAVCREAD	"B'00000010" Read (display)
85	(55)	BITSTRING	3		Reserved
88	(58)	SIGNED	4	WAVCUCMI	UCMID of console responsible for issuing the command
92	(5C)	ADDRESS	4	WAVCMMSG	Address of message list (if any) returned by CMDAUTH
Comment					
-----					
List form of CMDAUTH used when calling CMDAUTH					
Generated label on equate for length will be WAVCALN					
-----					
CMDAUTH MF=(L,WAVCA,NODSECT)					
-----					
End of Comment					
96	(60)	SIGNED	4	WAVCA (0)	-Parameter list
96	(60)	CHARACTER	4	WAVCA01	-'CAPL ' acronym
100	(64)	BITSTRING	1	WAVCA02	-Version level
101	(65)	BITSTRING	1	WAVCA03	-Security access level
102	(66)	BITSTRING	1	WAVCA04	-Miscellaneous flags
103	(67)	BITSTRING	1	WAVCA05	-Control block type
104	(68)	SIGNED	4	WAVCA06	-Subpool number for security interface
108	(6C)	ADDRESS	4	WAVCA07	-Address of requestor identifier
112	(70)	ADDRESS	4	WAVCA08	-Address of subsystem identifier
116	(74)	ADDRESS	4	WAVCA09	-Address of user specified control block
120	(78)	ADDRESS	4	WAVCA10	-Address of logstring
124	(7C)	ADDRESS	4	WAVCA11	-Address of entity name
128	(80)	CHARACTER	12	WAVCA12	-Reserved
128	(80)	X'2C'	0	WAVCALN	""-WAVCA" -Length of parameter list
268	(10C)	CHARACTER	512	WAVRRWK	RACROUTE work area
Comment					
The WAVRSRCN is used to build various resource names					
for SAF calls that may extend beyond 53 bytes.					
(Note that the JESSPOOL resource name is limited to 53					
bytes.					
End of Comment					
780	(30C)	SIGNED	2	WAVRNAMS (0)	
780	(30C)	CHARACTER	53	WAVRSRCN (0)	Max. resource name length
780	(30C)	CHARACTER	8	WAVRNODE	Nodename portion
788	(314)	CHARACTER	1	WAVRSEP1	separator
789	(315)	CHARACTER	44	WAVRDSNM	DSNAME portion
789	(315)	X'35'	0	WAVRSRCL	""-WAVRSRCN" Resource name length

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
780	(30C)	CHARACTER	53	WAVRJNAM	JESSPOOL Resource name
780	(30C)	CHARACTER	63	WAVRINAM	ISFAUTH Resource name
780	(30C)	CHARACTER	8	WAVRDCLS	DCT SECLABEL extract class
788	(314)	CHARACTER	39	WAVRDNAM	and resource name
780	(30C)	CHARACTER	8	WAVSECLB	Seclabel for DIRAUTH
848	(350)	DBL WORD	8	WAVEND (0)	Ensure WAVE ends on a dblw
848	(350)	X'350'	0	WAVLEN	"WAVEND-WAVE" Length of WAVE

**\$WAVE Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ICH01398	A8	A8	WAVCA07	6C	
ICH01408	A8	A8	WAVCA08	70	
ICH01418	A8	A8	WAVCA09	74	
ICH01428	A8	A8	WAVCA10	78	
ICH01438	A8	A8	WAVCA11	7C	
ICH01448	A8	A8	WAVCA12	80	
ICH01458	A8	A8	WAVCCRN	40	
ICH01519	A8	A8	WAVCMSG	5C	
ICH1418A	C0		WAVCNTRL	54	8
ICH1428A	C0		WAVCREAD	54	2
ICH1468A	A8		WAVCSSCM	4C	
ICH1468B	B0	B4	WAVCTKN	44	
ICH1468C	D4		WAVCTXT	48	
ICH1468D	D4		WAVCUCMI	58	
ICH1486A	A8		WAVCUPD	54	4
ICH1486B	B0	B4	WAVE	0	
ICH1486C	D4		WAVEID	0	E6C1E5C5
ICH1486D	D4		WAVEND	350	
ICH1504B	A8		WAVEPRIO	5	
ICH1504F	D8		WAVERSN	4	1
IHB1389A	40	40	WAVESQD	8	
IHB1389C	A8		WAVEXITP	2C	
IHB1399A	40	40	WAVEXTLA	34	
IHB1399C	A8		WAVFLAG1	30	
IHB1409A	40	40	WAVFUNCD	24	
IHB1409C	A8		WAVJMSKA	28	
IHB1419A	40	40	WAVLEN	350	350
IHB1419C	A8		WAVLEVEL	4	
IHB1429A	40	40	WAVRACCD	18	
IHB1429C	A8		WAVRACLN	10C	CC
IHB1439A	40	40	WAVRACRC	14	
IHB1439C	A8		WAVRACRP	40	
IHB1449A	40	40	WAVRAUD	2D	A
IHB1449C	A8		WAVRAUTH	2D	1
IHB1459A	40	40	WAVRCBA	20	
IHB1459C	A8		WAVRCBN	1C	
IHB1477A	40	40	WAVRCMD	2D	8
IHB1477C	A8		WAVRDCLS	30C	
IHB1495A	40	40	WAVRDIRA	2D	C
IHB1495C	A8		WAVRDNAM	314	
IHB1510A	40	40	WAVRDSNM	315	
IHB1510C	A8	80	WAVREQST	2D	
WAVCA	60		WAVRETCD	C	
WAVCACL	54		WAVRINAM	30C	
WAVCALN	80	2C	WAVRJNAM	30C	
WAVCARTA	50		WAVRNAMS	30C	
WAVCA01	60		WAVRNODE	30C	
WAVCA02	64		WAVRRWK	10C	
WAVCA03	65		WAVRSEP1	314	
WAVCA04	66		WAVRSNCD	10	
WAVCA05	67		WAVRSRCL	315	35
WAVCA06	68		WAVRSRCN	30C	

## \$WAVE Cross Reference

Name	Hex Offset	Hex Value
WAVRTBLD	2D	2
WAVRTMAP	2D	3
WAVRTXTR	2D	4
WAVRVFYC	2D	6
WAVRVFYD	2D	7
WAVRVFYX	2D	5
WAVRXTRB	2D	B
WAVRXTRT	2D	9
WAVSECLB	30C	
WAVURSV	3C	
WAVXFNCD	2C	10
WAVXJ2C	2C	80
WAVXMSG	2C	20
WAVXUSR	2C	40
WAV1BYPS	30	1
WAV1NCOD	30	2
WAV1SUBF	30	80
WAV1WAIT	30	40



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## **\$WLMD Information**

### **\$WLMD Programming Interface information**

\_\_\_\_\_ Programming Interface information \_\_\_\_\_

**\$WLMD**

\_\_\_\_\_ End of Programming Interface information \_\_\_\_\_

## Heading Information • \$WLMD Map

### \$WLMD Heading Information

**Common Name:** Work Load Manager Data Bundle  
**Macro ID:** \$WLMD  
**DSECT Name:** WLMD  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** WLMD  
 Offset: WLMID  
 Length: L'WLMID  
**Storage Attributes:** Subpool: 0  
 Key: 1  
 Residency: Anywhere  
**Size:** See WLMSIZE  
**Created by:** HASPIRDA  
**Pointed to by:** \$WLMDATA of the HCT  
**Serialization:** None required  
**Function:** Container for WLM related data areas used for communicating with Work Load Manager

### \$WLMD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	WLMD	
0	(0)	CHARACTER	4	WLMID	Eye catcher
4	(4)	BITSTRING	4	WLMCONN	WLM connect token

Comment

-----  
 WLM SVDEF has a value of all FFs if the JESplex is using a WLM default service definition on each member.  
 -----

End of Comment

8	(8)	BITSTRING	32	WLM SVDEF	WLM service definition ID from the JES2 CKPT
40	(28)	BITSTRING	32	WLM CURSV	WLM service definition ID for this system (from WLM)
72	(48)	CHARACTER	16	WLM JTOK	Our Sysplex wide unique WLM token
88	(58)	BITSTRING	1	WLM FLAG1	Flags
		1... ....		WLM1DEF	"B'10000000" WLM CURSV is a WLM default
89	(59)	BITSTRING	3		Reserved for future use

Comment

Work areas used by JOBQSAMP to collect sampling data to pass to WLM. JOBQSAMP is called under the checkpoint version subtask and these fields are for use only by that service.

End of Comment

92	(5C)	ADDRESS	4	WLM JSDSR	Address of IAZDSERV area
96	(60)	ADDRESS	4	WLM JSBQS	Address of IRABQS area
100	(64)	SIGNED	4	WLM JBQSZ	Size of DSERV/BQS/DJB
104	(68)	ADDRESS	4	WLM JSWRK	Work area address
108	(6C)	SIGNED	4	WLM JSWLN	Work area length

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Work areas used by WLMGOALS and QGET for initiator balancing					
End of Comment					
112	(70)	SIGNED	4	WLMGSAFF (0)	Number of single-affinity jobs each member
240	(F0)	SIGNED	4	WLMGMAFF (0)	Number of multi-affinity jobs each member
240	(F0)	X'70'	0	WLMGCOUN	"WLMGSAFF,-WLMGSAFF" Composite of all counters
368	(170)	BITSTRING	1	WLMGFLG1	Flags
		.1.. ....		WLMG1PSX	"B'01000000" \$POSTXEQ required
		..1. ....		WLMG1SM	"B'00100000" This is single member MAS
		...1 ....		WLMG1DST	"B'00010000" \$DISTERR was done once
372	(174)	SIGNED	4	WLMGSTON (0)	Stolen counts for current QGET
500	(1F4)	SIGNED	2	WLMGMAFG	Multi-Aff goal current QGET
502	(1F6)	SIGNED	2	WLMASID	WLM ASIDfor future use
504	(1F8)	ADDRESS	4	WLMGDJBS	Address of first DJB obtained by WLMGOALS
508	(1FC)	SIGNED	4	WLMGJQUE	Number of jobs ready to run
512	(200)	BITSTRING	4	WLMGSECT	Selection mask before goal computation
516	(204)	BITSTRING	4	WLMGSECA	Selection mask during goal computation
520	(208)	BITSTRING	4	WLMGWACT	Members that can select WLM work (e.g. not \$P, not \$P XEQ)
524	(20C)	BITSTRING	1	WLMGNISY	Members not in independent mode

Comment

Data areas for calling WLM services

End of Comment					
528	(210)	DBL WORD	8	WLMDATAD (0)	General double word area
528	(210)	SIGNED	4	WLMDATA1	General data area 1
532	(214)	SIGNED	4	WLMDATA2	General data area 2
536	(218)	SIGNED	4	WLMDATA3	General data area 3
540	(21C)	SIGNED	4	WLMDATA4	General data area 4
540	(21C)	X'210'	0	WLMDATAx	"WLMDATA1,16,C'X'" 16 byte work area
544	(220)	SIGNED	4	WLMRETCD	WLM service return code
548	(224)	SIGNED	4	WLMRESCD	WLM service reason code
552	(228)	BITSTRING	1	WLMLFUNC	Last function called (used for HASP712 message)
552	(228)	X'1'	0	WLMFCONN	"1" IWMCNN - connect
552	(228)	X'2'	0	WLMFPQRY	"2" IWMPQRY - query policy
552	(228)	X'3'	0	WLMFDISC	"3" IWMDISC - disconnect
552	(228)	X'4'	0	WLMFBREG	"4" IWMBREG - Registration
552	(228)	X'5'	0	WLMFDREG	"5" IWMBDREG - Deegistration
552	(228)	X'6'	0	WLMFCLAS	"6" IWMCCLASFY - Classify
553	(229)	BITSTRING	3		Reserved

Comment

--BLDM \$BLDMSG MF=L List form of \$BLDMSG

End of Comment					
556	(22C)	SIGNED	4	WMLBLDM (0)	Control block ID
560	(230)	BITSTRING	4		Console ID
564	(234)	ADDRESS	4		Address of the CART
568	(238)	ADDRESS	4		Pointer for JOBID
572	(23C)	ADDRESS	4		Control block address
576	(240)	ADDRESS	4		Display routine address
580	(244)	ADDRESS	4	(6)	6 word work area
604	(25C)	ADDRESS	4		Caller's R11 value
608	(260)	BITSTRING	2		ROUT code for Message
610	(262)	BITSTRING	2		Not used
612	(264)	CHARACTER	4		Message ID
616	(268)	CHARACTER	1		Separator character
617	(269)	ADDRESS	1		Flag byte 1

# \$WLMD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
618	(26A)	ADDRESS	1		'DISPER'
619	(26B)	ADDRESS	1		Flag byte 2
620	(26C)	ADDRESS	1		Flag byte 3
621	(26D)	CHARACTER	8		Symbolic name of dest.
629	(275)	BITSTRING	15		Not used
644	(284)	ADDRESS	4	(0)	Ensure multiple of 4
644	(284)	ADDRESS	2	(0)	
0	(0)	X'58'	0	WLMBLDML	**-'WLMBLDM" Length of \$BLDMSG MF=L
644	(284)	SIGNED	4	WLMPORG (0)	Org label for inline parm lists
Comment					
-----					
WLM connect					
-----					
End of Comment					
0	(0)	X'288'	0	M00M1391	"WLMCONNL" ++ IWMCONN NAME
648	(288)	DBL WORD	8	WLMCONNL (0)	++ IWMCONN PARM LIST
648	(288)	BITSTRING	1	WLMCONNL_XVERSION	++ INPUT XVERSION
649	(289)	BITSTRING	1	WLMCONNL_XCONNECT_OPTIONS	++ FIELD_LABEL
		1... ....		WLMCONNL_XCONNTKNKEYP_VALUE	"B'10000000" ++ XCONNTKNKEYP.VALUE KEYWORD
650	(28A)	CHARACTER	1	WLMCONNL_XRSV0002	++ RESERVED XRSV0002
651	(28B)	BITSTRING	1	WLMCONNL_XCONNTKNKEY	++ XCONNTKNKEY
652	(28C)	CHARACTER	4	WLMCONNL_XSUBSYS	++ XSUBSYS
656	(290)	ADDRESS	4	WLMCONNL_XSUBSYSNM_ADDR	++ ADDR XSUBSYSNM
660	(294)	CHARACTER	4	WLMCONNL_XRSV000C	++ RESERVED XRSV000C
664	(298)	SIGNED	4	WLMCONNL_XNUMBERASCB	++ XNUMBERASCB
668	(29C)	ADDRESS	4	WLMCONNL_XTOPOLOGY_ADDR	++ ADDR XTOPOLOGY
672	(2A0)	CHARACTER	4	WLMCONNL_XRSV0018	++ RESERVED XRSV0018
676	(2A4)	BITSTRING	4	WLMCONNL_XCONNTKN	++ XCONNTKN
680	(2A8)	ADDRESS	4	WLMCONNL_XQMGR_EXIT@	++ XQMGR_EXIT@
680	(2A8)	X'2AC'	0	WLMCONNL_PL_END	*** ++ END OF BASE PLIST
680	(2A8)	X'24'	0	WLMCONNLL	**-'WLMCONNL" ++ LENGTH OF PLIST
Comment					
IWMCONN-4					
-----					
WLM Disconnect					
-----					
End of Comment					
Comment					
MACDATE -11/09/04-<0>					
-----					
End of Comment					
0	(0)	X'288'	0	M00M1393	"WLMDISCL" ++ IWMDISC NAME

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
648	(288)	DBL WORD	8	WLMDISCL (0)	++ IWMDISC PARM LIST
648	(288)	BITSTRING	1	WLMDISCL_XVERSION	++ INPUT XVERSION
649	(289)	BITSTRING	1	WLMDISCL_XOPTIONS	++ FIELD_LABEL XOPTIONS
650	(28A)	CHARACTER	2	WLMDISCL_XRSV0002	++ RESERVED XRSV0002
652	(28C)	BITSTRING	4	WLMDISCL_XCONNTKN	++ XCONNTKN
656	(290)	CHARACTER	4	WLMDISCL_XRSV0008	++ RESERVED XRSV0008
656	(290)	X'C'	0	WLMDISCLL	**-'WLMDISCL' ++ LENGTH OF PLIST

Comment

IWMDISC-0

-----  
WLM policy query  
-----

End of Comment

Comment

MACDATE -02/26/97-<0>

End of Comment

0	(0)	X'288'	0	M00M1394	"WLMPQRYL" ++ IWMPQRY NAME
648	(288)	DBL WORD	8	WLMPQRYL (0)	++ IWMPQRY PARM LIST
648	(288)	BITSTRING	1	WLMPQRYL_XVERSION	++ INPUT XVERSION
649	(289)	CHARACTER	3	WLMPQRYL_XRSV0001	++ RESERVED XRSV0001
652	(28C)	ADDRESS	4	WLMPQRYL_XANSAREA_ADDR	++ ADDR XANSAREA
656	(290)	SIGNED	4	WLMPQRYL_XANSAREA_ALET	++ ALET XANSAREA
660	(294)	SIGNED	4	WLMPQRYL_XANSLEN	++ XANSLEN
664	(298)	SIGNED	4	WLMPQRYL_XQUERYLEN	++ XQUERYLEN
668	(29C)	CHARACTER	4	WLMPQRYL_XRSV0014	++ RESERVED XRSV0014
668	(29C)	X'18'	0	WLMPQRYLL	**-'WLMPQRYL' ++ LENGTH OF PLIST

Comment

IWMPQRY-0

-----  
WLM queue registration  
-----

End of Comment

Comment

MACDATE -04/02/97-<0>

End of Comment

0	(0)	X'288'	0	M00M1395	"WLMQREG" ++ IWMBREG NAME
648	(288)	DBL WORD	8	WLMQREG (0)	++ IWMBREG PARM LIST
648	(288)	BITSTRING	1	WLMQREG_XVERSION	++ INPUT XVERSION
649	(289)	CHARACTER	1	WLMQREG_XRSV0001	

# \$WLMD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
650	(28A)	BITSTRING	2	WLMQREG_XPLISTLEN	++ RESERVED XRSV0001 ++ INPUT XPLISTLEN
652	(28C)	CHARACTER	16	WLMQREG_XQTOKEN	++ XQTOKEN
668	(29C)	CHARACTER	32	WLMQREG_XSVDEF_ID	++ XSVDEF_ID
700	(2BC)	ADDRESS	4	WLMQREG_XAPPLENV_ADDR	++ ADDR XAPPLENV
704	(2C0)	CHARACTER	8	WLMQREG_XSRVCLSNM	++ XSRVCLSNM
712	(2C8)	SIGNED	4	WLMQREG_XNUMSYS	++ XNUMSYS
716	(2CC)	CHARACTER	8	WLMQREG_XRSV0044	++ RESERVED XRSV0044
716	(2CC)	X'4C'	0	WLMQREGL	**_WLMQREG" ++ LENGTH OF PLIST

Comment

IWMBREG-0

-----  
WLM queue deregistration  
-----

End of Comment

Comment

MACDATE -02/24/97-<0>

End of Comment

0	(0)	X'288'	0	M00M1396	"WLMQDREG" ++ IWMBDREG NAME
648	(288)	DBL WORD	8	WLMQDREG (0)	++ IWMBDREG PARM LIST
648	(288)	BITSTRING	1	WLMQDREG_XVERSION	++ INPUT XVERSION
649	(289)	CHARACTER	1	WLMQDREG_XRSV0001	++ RESERVED XRSV0001
650	(28A)	BITSTRING	2	WLMQDREG_XPLISTLEN	++ INPUT XPLISTLEN
652	(28C)	CHARACTER	16	WLMQDREG_XQTOKEN	++ XQTOKEN
668	(29C)	BITSTRING	1	WLMQDREG_XDEREG_OPTIONS	++ FIELD_LABEL
		1... ....		WLMQDREG_XTYPE_SPECIFIC	"B'10000000" ++ XTYPE.SPECIFIC KEYWORD
		.1... ....		WLMQDREG_XTYPE_ALL	"B'01000000" ++ XTYPE.ALL KEYWORD
669	(29D)	CHARACTER	7	WLMQDREG_XRSV0015	++ RESERVED XRSV0015
669	(29D)	X'1C'	0	WLMQDREGL	**_WLMQDREG" ++ LENGTH OF PLIST

Comment

IWMBDREG-0

-----  
WLM service class validation  
-----

End of Comment

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MACDATE -03/27/97-<0>					
End of Comment					
0	(0)	X'288'	0	M00M1397	"WLMBSET" ++ IWMBSET NAME
648	(288)	DBL WORD	8	WLMBSET (0)	++ IWMBSET PARM LIST
648	(288)	BITSTRING	1	WLMBSET_XVERSION	++ INPUT XVERSION
649	(289)	CHARACTER	1	WLMBSET_XRSV001	++ RESERVED XRSV001
650	(28A)	BITSTRING	2	WLMBSET_XPLISTLEN	++ INPUT XPLISTLEN
652	(28C)	BITSTRING	4	WLMBSET_XSERVCLS	++ XSERVCLS
656	(290)	CHARACTER	8	WLMBSET_XSRVCLSNM	++ XSRVCLSNM
664	(298)	CHARACTER	4	WLMBSET_XRSV002	++ RESERVED XRSV002
664	(298)	X'14'	0	WLMBSETL	** -WLMBSET" ++ LENGTH OF PLIST
Comment					
IWMBSET-0					
-----					
WLM scheduling environment availability testing					
-----					
End of Comment					
0	(0)	X'288'	0	M00M1398	"WLMBSCH" ++ IWMSEDES NAME
648	(288)	DBL WORD	8	WLMBSCH (0)	++ IWMSEDES PARM LIST
648	(288)	BITSTRING	1	WLMBSCH_XVERSION	++ INPUT XVERSION
649	(289)	CHARACTER	1	WLMBSCH_XRSV0001	++ RESERVED XRSV0001
650	(28A)	BITSTRING	2	WLMBSCH_XPLISTLEN	++ INPUT XPLISTLEN
652	(28C)	CHARACTER	16	WLMBSCH_XSCHENV	++ XSCHENV
668	(29C)	CHARACTER	8	WLMBSCH_XSYSTEM_NAME	++ XSYSTEM_NAME
676	(2A4)	CHARACTER	16	WLMBSCH_XRSV001C	++ RESERVED XRSV001C
676	(2A4)	X'2C'	0	WLMBSCHL	** -WLMBSCH" ++ LENGTH OF PLIST
Comment					
IWMSEDES-0					
-----					
WLM scheduling environment definition testing					
-----					
End of Comment					
Comment					
MACDATE -04/02/97-<0>					
End of Comment					
0	(0)	X'288'	0	M00M1399	"WLMSEVAL" ++ IWMSEVAL NAME
648	(288)	DBL WORD	8	WLMSEVAL (0)	++ IWMSEVAL PARM LIST
648	(288)	BITSTRING	1	WLMSEVAL_XVERSION	++ INPUT XVERSION

# \$WLMD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
649	(289)	CHARACTER	1	WLMSEVAL_XRSV0001	++ RESERVED XRSV0001
650	(28A)	BITSTRING	2	WLMSEVAL_XPLISTLEN	++ INPUT XPLISTLEN
652	(28C)	CHARACTER	16	WLMSEVAL_XSCHENV	++ XSCHENV
668	(29C)	CHARACTER	16	WLMSEVAL_XRSV0014	++ RESERVED XRSV0014
668	(29C)	X'24'	0	WLMSEVALL	"*-WLMSEVAL" ++ LENGTH OF PLIST

Comment

IWMSEVAL-0

-----  
WLM demand batch inquiry processing  
-----

End of Comment

Comment

MACDATE -03/28/97-<0>

End of Comment

0	(0)	X'288'	0	M00M1400	"WLMBLOC" ++ IWMBLOC NAME
648	(288)	DBL WORD	8	WLMBLOC (0)	++ IWMBLOC PARM LIST
648	(288)	BITSTRING	1	WLMBLOC_XVERSION	++ INPUT XVERSION
649	(289)	CHARACTER	1	WLMBLOC_XRSV0001	++ RESERVED XRSV0001
650	(28A)	BITSTRING	2	WLMBLOC_XPLISTLEN	++ INPUT XPLISTLEN
652	(28C)	CHARACTER	16	WLMBLOC_XQTOKEN	++ XQTOKEN
668	(29C)	ADDRESS	4	WLMBLOC_XSYSTEML_ADDR	++ ADDR XSYSTEML
672	(2A0)	SIGNED	4	WLMBLOC_XNUMSYS	++ XNUMSYS
676	(2A4)	CHARACTER	8	WLMBLOC_XSRVCLSNUM	++ XSRVCLSNUM
684	(2AC)	CHARACTER	8	WLMBLOC_XSYSNAME	++ XSYSNAME
692	(2B4)	CHARACTER	8	WLMBLOC_XRSV0024	++ RESERVED XRSV0024
692	(2B4)	X'34'	0	WLMBLOCL	"*-WLMBLOC" ++ LENGTH OF PLIST

Comment

IWMBLOC-0

End of Comment

724	(2D4)	SIGNED	4	WLMSNUM	Number of MVS systems
728	(2D8)	CHARACTER	8	WLMSLIST (0)	List of MVS system names

Comment

-----  
WLM demand batch request processing  
-----

End of Comment



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MACDATE -02/04/97-<0>					
End of Comment					
0	(0)	X'288'	0	M00M1401	"WLMBREQ" ++ IWMBREQ NAME
648	(288)	DBL WORD	8	WLMBREQ (0)	++ IWMBREQ PARM LIST
648	(288)	BITSTRING	1	WLMBREQ_XVERSION	++ INPUT XVERSION
649	(289)	CHARACTER	1	WLMBREQ_XRSV0001	++ RESERVED XRSV0001
650	(28A)	BITSTRING	2	WLMBREQ_XPLISTLEN	++ INPUT XPLISTLEN
652	(28C)	CHARACTER	8	WLMBREQ_XJOBTOKEN	++ XJOBTOKEN
660	(294)	CHARACTER	16	WLMBREQ_XQTOKEN	++ XQTOKEN
676	(2A4)	CHARACTER	8	WLMBREQ_XRSV001C	++ RESERVED XRSV001C
676	(2A4)	X'24'	0	WLMBREQ_L	"*-WLMBREQ" ++ LENGTH OF PLIST
Comment					
IWMBREQ-0					
-----					
WLM service class reset processing					
-----					
End of Comment					
Comment					
MACDATE -12/18/03-<0>					
End of Comment					
0	(0)	X'288'	0	M00M1402	"WLMBRST" ++ IWMRESET NAME
648	(288)	DBL WORD	8	WLMBRST (0)	++ IWMRESET PARM LIST
648	(288)	BITSTRING	1	WLMBRST_XVERSION	++ INPUT XVERSION
649	(289)	BITSTRING	1	WLMBRST_XOPTIONS	++ FIELD_LABEL
		1... ....		WLMBRST_KEYUSED_SRVCLASS	"B'10000000" ++ KEYUSED.SRVCLASS KEYWORD
		.1.. ....		WLMBRST_KEYUSED_PERFORM	"B'01000000" ++ KEYUSED.PERFORM KEYWORD
		..1. ....		WLMBRST_XFUNCTION QUIESCE	"B'00100000" ++ XFUNCTION.QUIESCE KEYWORD
		...1 ....		WLMBRST_XFUNCTION_RESUME	"B'00010000" ++ XFUNCTION.RESUME KEYWORD
		.... 1...		WLMBRST_KEYUSED_JOBNAME	"B'00001000" ++ KEYUSED.JOBNAME KEYWORD
		.... .1..		WLMBRST_KEYUSED_ASID	"B'00000100" ++ KEYUSED.ASID KEYWORD
650	(28A)	BITSTRING	2	WLMBRST_XPLISTLEN	++ INPUT XPLISTLEN
652	(28C)	CHARACTER	8	WLMBRST_XJOBNAME	++ XJOBNAME
660	(294)	BITSTRING	2	WLMBRST_XASID	++ XASID
662	(296)	BITSTRING	2	WLMBRST_XPERFORM	++ XPERFORM
664	(298)	CHARACTER	8	WLMBRST_XSRVCLASS	++ XSRVCLASS

## \$WLMD Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
672	(2A0)	CHARACTER	8	WLMBRST_XUSERID	++ XUSERID
680	(2A8)	CHARACTER	8	WLMBRST_XPRODUCT	++ XPRODUCT
680	(2A8)	X'28'	0	WLMBRSTL	"*-WLMBRST" ++ LENGTH OF PLIST
Comment					
IWMRESET-0					
End of inline parm lists					
End of Comment					
984	(3D8)	X'284'	0	WLMPARM	"WLMPORG,*-WLMPORG" Label for inline parm lists
984	(3D8)	DBL WORD	8	(0)	Alignment
984	(3D8)	X'3D8'	0	WLMSIZE	"*-WLMD" Size of bundle

## \$WLMD Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
M00M1391	0	288		2A4	
M00M1393	0	288	WLMBREQ_XVERSION		
M00M1394	0	288		288	
M00M1395	0	288	WLMBREQL	2A4	24
M00M1396	0	288	WLMBRST	288	
M00M1397	0	288	WLMBRST_KEYUSED_ASID		
M00M1398	0	288		289	4
M00M1399	0	288	WLMBRST_KEYUSED_JOBNAME		
M00M1400	0	288		289	8
M00M1401	0	288	WLMBRST_KEYUSED_PERFORM		
M00M1402	0	288		289	40
WLMASID	1F6		WLMBRST_KEYUSED_SRVCLASS		
WMLBLDM	22C	C2D3C440		289	80
WMLBLDML	0	58	WLMBRST_XASID		
WMLBLOC	288			294	
WMLBLOC_XNUMSYS			WLMBRST_XFUNCTION QUIESCE		
	2A0			289	20
WMLBLOC_XPLISTLEN			WLMBRST_XFUNCTION_RESUME		
	28A			289	10
WMLBLOC_XQTOKEN			WLMBRST_XJOBNAME		
	28C			28C	
WMLBLOC_XRSV0001			WLMBRST_XOPTIONS		
	289			289	
WMLBLOC_XRSV0024			WLMBRST_XPERFORM		
	2B4			296	
WMLBLOC_XSRVCLSNM			WLMBRST_XPLISTLEN		
	2A4			28A	
WMLBLOC_XSYSNAME			WLMBRST_XPRODUCT		
	2AC			2A8	
WMLBLOC_XSYSTEML_ADDR			WLMBRST_XSRVCLASS		
	29C			298	
WMLBLOC_XVERSION			WLMBRST_XUSERID		
	288			2A0	
WMLBLOCL	2B4	34	WLMBRST_XVERSION		
WMLBREQ	288			288	
WMLBREQ_XJOBTOKEN			WLMBRSTL	2A8	28
	28C		WLMBSCHE	288	
WMLBREQ_XPLISTLEN			WLMBSCHE_XPLISTLEN		
	28A			28A	
WMLBREQ_XQTOKEN			WLMBSCHE_XRSV0001		
	294			289	
WMLBREQ_XRSV0001			WLMBSCHE_XRSV001C		
	289			2A4	
WMLBREQ_XRSV001C			WLMBSCHE_XSCHENV		

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
	28C			28A	
WLMBSCHE_XSYSTEM_NAME	29C		WLMDISCL_XRSV0008	290	
WLMBSCHE_XVERSION	288		WLMDISCL_XVERSION	288	
WLMBSCHEL	2A4	2C	WLMDISCLL	290	C
WLMBSET	288		WLMFBREG	228	4
WLMBSET_XPLISTLEN	28A		WLMFCLAS	228	6
WLMBSET_XRSV001	289		WLMFCONN	228	1
WLMBSET_XRSV002	298		WLMFDISC	228	3
WLMBSET_XSERVCLS	28C		WLMFDREG	228	5
WLMBSET_XSRVCLSNM	290		WLMFLAG1	58	
WLMBSET_XVERSION	288		WLMFPQRY	228	2
WLMBSETL	298	14	WLMGCOUN	F0	70
WLMCONN	4		WLMGDJBS	1F8	
WLMCONNL	288		WLMGFLG1	170	
WLMCONNL_PL_END	2A8	2AC	WLMGJQUE	1FC	
WLMCONNL_XCONNECT_OPTIONS	289		WLMGMAFF	F0	
WLMCONNL_XCONNTKN	2A4		WLMGMAFG	1F4	
WLMCONNL_XCONNTKNKEY	28B		WLMGNISY	20C	
WLMCONNL_XCONNTKNKEYP_VALUE	289	80	WLMGSAFF	70	
WLMCONNL_XNUMBERASCB	298		WLMGSECA	204	
WLMCONNL_XQMGR_EXIT@	2A8		WLMGSECT	200	
WLMCONNL_XRSV000C	294		WLMGSTON	174	
WLMCONNL_XRSV0002	28A		WLMGWACT	208	
WLMCONNL_XRSV0018	2A0		WLMG1DST	170	10
WLMCONNL_XSUBSYS	28C		WLMG1PSX	170	40
WLMCONNL_XSUBSYSNM_ADDR	290		WLMG1SM	170	20
WLMCONNL_XTOPOLOGY_ADDR	29C		WLMID	0	
WLMCONNL_XVERSION	288		WLMJBQSZ	64	
WLMCONNLL	2A8	24	WLMJSBQS	60	
WLMCURSV	28		WLMJSDSR	5C	
WLMD	0		WLMJSWLN	6C	
WLMDATAD	210		WLMJSWRK	68	
WLMDATA1	210	210	WLMJTOK	48	
WLMDATA2	214		WMLLFUNC	228	
WLMDATA3	218		WLMPARM	3D8	284
WLMDATA4	21C		WLMPORG	284	
WLMDISCL	288		WLMPQRYL	288	
WLMDISCL_XCONNTKN	28C		WLMPQRYL_XANSAREA_ADDR	28C	
WLMDISCL_XOPTIONS	289		WLMPQRYL_XANSAREA_ALET	290	
WLMDISCL_XRSV0002	289		WLMPQRYL_XANSLEN	294	
			WLMPQRYL_XQUERYLEN	298	
			WLMPQRYL_XRSV0001	289	
			WLMPQRYL_XRSV0014	29C	
			WLMPQRYL_XVERSION	288	
			WLMPQRYLL	29C	18
			WLMQDREG	288	
			WLMQDREG_XDEREG_OPTIONS	29C	
			WLMQDREG_XPLISTLEN	28A	
			WLMQDREG_XQTOKEN	28C	
			WLMQDREG_XRSV0001	289	
			WLMQDREG_XRSV0015	29D	

## \$WLMD Cross Reference

Name	Hex Offset	Hex Value
WLMQDREG_XTYPE_ALL	29C	40
WLMQDREG_XTYPE_SPECIFIC	29C	80
WLMQDREG_XVERSION	288	
WLMQDREGL	29D	1C
WLMQREG	288	
WLMQREG_XAPPLENV_ADDR	2BC	
WLMQREG_XNUMSYS	2C8	
WLMQREG_XPLISTLEN	28A	
WLMQREG_XQTOKEN	28C	
WLMQREG_XRSV0001	289	
WLMQREG_XRSV0044	2CC	
WLMQREG_XSRVCLSNM	2C0	
WLMQREG_XSVDEF_ID	29C	
WLMQREG_XVERSION	288	
WLMQREGL	2CC	4C
WLMRESCD	224	
WLMRETCD	220	
WLMSEVAL	288	
WLMSEVAL_XPLISTLEN	28A	
WLMSEVAL_XRSV0001	289	
WLMSEVAL_XRSV0014	29C	
WLMSEVAL_XSCHENV	28C	
WLMSEVAL_XVERSION	288	
WLMSEVALL	29C	24
WLMSIZE	3D8	3D8
WLMSLIST	2D8	
WLMSNUM	2D4	
WLMSVDEF	8	
WLM1DEF	58	80

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## **\$WSA Information**

### **\$WSA Programming Interface information**

\_\_\_\_\_ Programming Interface information \_\_\_\_\_

**\$WSA**

\_\_\_\_\_ End of Programming Interface information \_\_\_\_\_

## Heading Information • \$WSA Map

### \$WSA Heading Information

**Common Name:** Work selection work area  
**Macro ID:** \$WSA  
**DSECT Name:** WSA  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'WSA '  
 Offset: WSAID-WSA  
 Length: 4  
**Storage Attributes:** Subpool: 0  
 Key: 1  
 Residency: Virtual and real storage anywhere, in the private storage of the JES2 address space.  
**Size:** See WSALEN  
**Created by:** JES2 initialization  
**Pointed to by:** \$WSAPTR field of the \$HCT data area  
**Serialization:** JES2 Main Task - contents may be destroyed via any \$WAIT  
**Function:** Provides a work area for the work selection service routines (\$#GET, GTSCREEN, WSSETUP, WSSERV).

### \$WSA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	WSA	WORK SELECTION AREA DSECT
0	(0)	CHARACTER	4	WSAID	WSA ID
4	(4)	BITSTRING	1	WSAVERS	VERSION NUMBER
4	(4)	X'3'	0	WSAVRSN	"3" Current version number
5	(5)	BITSTRING	3	WSARSV1	Reserved for future use
8	(8)	SIGNED	4	WSASRVSV (18)	WSSERV/WSSETUP SAVE AREA
80	(50)	SIGNED	4	WSASAVE (18)	GTSCREEN ROUTINE SAVE AREA
152	(98)	SIGNED	4	WSACLIRST (0)	Put on fullword boundary
152	(98)	CHARACTER	104	WSAWKL1	Save area for exact mtch WS
256	(100)	CHARACTER	104	WSAWKL2	Save area for priority WS
360	(168)	BITSTRING	1	WSADELIM	FLAG BYTE FOR WS LIST BUILD
361	(169)	BITSTRING	1	WSAASLAS	FLAG BYTE FOR AFTER SLASH
362	(16A)	CHARACTER	80	WSASVLST	SAVE AREA FOR WS LIST
442	(1BA)	BITSTRING	1	WSAFLG	INIT AND COMMAND WORK FLAG
444	(1BC)	ADDRESS	4	WSABSTWK	ADDRESS OF BEST WORK FOUND
448	(1C0)	BITSTRING	1	WSACLVAL	VALUE OF CLASS IN WORK LIST
449	(1C1)	BITSTRING	1	WSABCLVL	BEST WORK CLASS VALUE
450	(1C2)	BITSTRING	1	WSAFLAG1	\$#GET WORK FLAG 1
		1... ....		WSA1OPT	"B'10000000" OPTIONAL CRITERIA FLAG
		.1.. ....		WSA1HOLD	"B'01000000" HELD OUTPUT SELECTED
		..1. ....		WSA1BEST	"B'00100000" BEST JOE FOUND FOR SPOF
		...1 ....		WSA1CNET	"B'00010000" Currently on network Q
		.... 1..		WSA1CHLD	"B'00001000" Currently on hold Q
		.... .1..		WSA1CLOC	"B'00000100" Currently on local Q
		.... ..1.		WSA1CRMT	"B'00000010" Currently on remote Q
		.... ...1		WSA1CUSR	"B'00000001" Currently on userid Q
450	(1C2)	X'1F'	0	WSA1CURQ	"WSA1CNET+WSA1CHLD+WSA1CLOC+WSA1CRMT+WSA1CUSR" Composition of all Qs
451	(1C3)	BITSTRING	1	WSAFLAG2	\$#GET WORK FLAG 2
		1... ....		WSA2LOC	"B'10000000" SCANNED LOCAL QUEUE
		.1.. ....		WSA2USE	"B'01000000" SCANNED USERID QUEUE
		..1. ....		WSA2RMT	"B'00100000" SCANNED REMOTE QUEUE
		...1 ....		WSA2RQTM	"B'00010000" TERMINATE REMOTE QUEUE SCAN
		.... 1..		WSA2RQCN	"B'00001000" CONTINUE REMOTE QUEUE SCAN
		.... .1..		WSA2NQTM	"B'00000100" SELECT WORK FROM NETWORK Q
		.... ..1.		WSA2QQTM	"B'00000010" Terminate current Q scan
		.... ...1		WSA2BSRC	"B'00000001" Best route code found in current queue

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
452	(1C4)	BITSTRING 1... .... .1.. .... ..1. .... ...1 ....	1	WSAFLAG3 WSA3GJOA WSA3GJQA WSA3GOPT WSA3JPPS	\$\$GET/\$#POST work flag 3 "B'1000000" WSAJOA obtained by WSSERV "B'0100000" JQA obtained by WSSERV rtn "B'0010000" \$\$GET optimized get performed "B'00010000" JOE post-screening done
453	(1C5)	BITSTRING	3		Reserved
456	(1C8)	BITSTRING	25	WSABSTV	Best criteria value
481	(1E1)	BITSTRING	25	WSACURV	Current criteria value
506	(1FA)	BITSTRING	26	WSAWRMSK	Highest possible value mask
532	(214)	ADDRESS 1... ....	4	WSATABS WSAUSER	ADDR OF WS TABLES "X'80" WS USER CRITERION IND
536	(218)	SIGNED	4	WSALLIM	Number of lines chained
540	(21C)	SIGNED	4	WSAPLIM	Number of pages chained
544	(220)	ADDRESS	4	WSACBA (0)	CONTROL BLOCK ADDRESSES
544	(220)	ADDRESS	4	WSAHCT	ADDR OF HCT
548	(224)	ADDRESS	4	WSAUCT	ADDR OF UCT
552	(228)	ADDRESS	4	WSADCT	Address of DCT or zero
556	(22C)	ADDRESS	4	WSAWSP	Address of WSP
560	(230)	ADDRESS	4	WSAWSA	ADDR OF WSA
564	(234)	ADDRESS	4	WSAJQE	ADDR OF JQE
568	(238)	ADDRESS	4	WSAPCE	Addr of PCE
572	(23C)	ADDRESS	4	WSAJCT	ADDR OF JCT
576	(240)	ADDRESS	4	WSAWJOE	ADDR OF WORK JOE
580	(244)	ADDRESS	4	WSACJOE	ADDR OF CHAR-JOE
584	(248)	ADDRESS	4	WSAJOA	ADDR OF JOA
588	(24C)	ADDRESS	4	WSANJHG	GEN SECTION JOB HDR ADDR
592	(250)	ADDRESS	4	WSANJH2	JES2 SECTION JOB HDR ADDR
596	(254)	ADDRESS	4	WSANJHO	OFFLOAD SECTION JOB HDR
600	(258)	ADDRESS	4	WSANJHU	USER SECTION JOB HDR
604	(25C)	ADDRESS	4	WSANJHT	Security Section Job Hdr
608	(260)	ADDRESS	4	WSANDHG	GENERAL SEC DS HDR ADDR
612	(264)	ADDRESS	4	WSANDH2	JES2 SECT OF DS HDR ADDR
616	(268)	ADDRESS	4	WSANDHA	OFFLOAD SECTION DS HDR
620	(26C)	ADDRESS	4	WSANDHS	DATASTREAM SEC OF DS HDR
624	(270)	ADDRESS	4	WSANDHU	USER SECTION DS HDR
628	(274)	ADDRESS	4	WSANDHT	Security Section DS Hdr
632	(278)	ADDRESS	4	WSANJHOX	Affinity section job header
636	(27C)	SIGNED	4	WSASTCK	High order word of TOD
640	(280)	ADDRESS	4	WSALST	ADDR OF WS LIST
644	(284)	SIGNED	4	WSALSTCR	Maximum number of criteria in WS list
648	(288)	ADDRESS	4	WSANTRT	MVS NAME/TOKEN Retrieve rtn
652	(28C)	BITSTRING	128	WSAVOL (4)	VOLUME MASK
780	(30C)	SIGNED	4	WSAMDSTR	Lowest remote route code for quick index to queue
784	(310)	SIGNED	4	WSAMDSTU	Lowest special local route code

Comment

Work area for ASAXWC macros

End of Comment

788	(314)	SIGNED	4	WSADATAL	Length of input string MACDATE -06/16/09-<0>
0	(0)	X'318'	0	M00M1392	"WSALIST" ++ ASAXWC NAME
792	(318)	SIGNED	4	WSALIST (0)	++ ASAXWC PARM LIST
792	(318)	CHARACTER	4	WSALIST_XPARMAREA1	++ FIELD_LABEL
796	(31C)	CHARACTER	24	WSALIST_XPARMAREA2	++ FIELD_LABEL
796	(31C)	X'334'	0	WSALIST_PL_END	*** ++ END OF BASE PLIST
792	(318)	ADDRESS	4	WSALIST_XPATTERNSTR_ADDR	++ ADDR
796	(31C)	SIGNED	4	WSALIST_XPATTERNSTRLEN	++
800	(320)	ADDRESS	4	WSALIST_XSTRING_ADDR	

## \$WSA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
804	(324)	SIGNED	4	WSALIST_XSTRINGLEN	++ ADDR
808	(328)	ADDRESS	4	WSALIST_XZEROORMORE_ADDR	++ ++ ADDR
812	(32C)	ADDRESS	4	WSALIST_XONECHAR_ADDR	++ ADDR
816	(330)	ADDRESS	4	WSALIST_XDELIMITER_ADDR	++ ADDR
792	(318)	ADDRESS	4	WSALIST_XPPPATTERNINFO_ADDR	++ ADDR
796	(31C)	ADDRESS	4	WSALIST_XPPPATTERNSTR_ADDR	++ ADDR
800	(320)	SIGNED	4	WSALIST_XPPPATTERNSTRLEN	++
804	(324)	ADDRESS	4	WSALIST_XPPZEROORMORE_ADDR	++ ADDR
808	(328)	ADDRESS	4	WSALIST_XPPONECHAR_ADDR	++ ADDR
812	(32C)	ADDRESS	4	WSALIST_XPPDELIMITER_ADDR	++ ADDR
796	(31C)	ADDRESS	4	WSALIST_XPPSTRING_ADDR	++ ADDR
800	(320)	SIGNED	4	WSALIST_XPPSTRINGLEN	++
820	(334)	X'1C'	0	WSALISTL	"*-WSALIST" ++ LENGTH OF PLIST
Comment					
ASAXWC-0					
End of Comment					
820	(334)	BITSTRING	256	WSAAREA	Work area passed to ASAXWC
Comment					
Parameter list for MVS Name/Token retrieve service (IEANTRT).					
End of Comment					
820	(334)	SIGNED	4	WSATKPRM (0)	IEANTRT parameter list
820	(334)	ADDRESS	4	WSATKLVA	Level address
824	(338)	ADDRESS	4	WSATKNMA	Name address
828	(33C)	ADDRESS	4	WSATKTKA	Token address
832	(340)	ADDRESS	4	WSATKRCA	Return code address
Comment					
Token information					
End of Comment					
836	(344)	SIGNED	4	WSATKLVL	Task level for token
840	(348)	BITSTRING	16	WSATKTOK	Token of NAME/TOKEN pair
856	(358)	SIGNED	4	WSATKRET	Service return code
860	(35C)	BITSTRING	16	WSATKNAM	Name of NAME/Token pair
Comment					
\$JCORBLD Job Correlator build service work area					
End of Comment					
1076	(434)	CHARACTER	68	WSAJCOR	Job correlator
1144	(478)	DBL WORD	8	(0)	
1144	(478)	X'478'	0	WSAWSLN	"*-WSA" Length of area cleared by WSSETUP



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
Nothing beyond this point is cleared by WSSETUP					
-----					
ASAXWC translate table					
End of Comment					
1144	(478)	BITSTRING	256	WSATRTAB	Translate table for ASAXWC
Comment					
Work area for EBCDIC work selection list creation					
End of Comment					
1400	(578)	BITSTRING	1	WSAWSLST	Work selection list (EBCDIC)
Comment					
Work area for \$#GET "count" type call. Counts are accumulated for all JOEs which match the selection criteria.					
End of Comment					
1628	(65C)	SIGNED	4	WSACTJOE	Number of JOEs matching
1632	(660)	SIGNED	4	WSACLIN	Number of lines
1636	(664)	SIGNED	4	WSACPAGE	Number of pages
1636	(664)	X'65C'	0	WSACOUNT	"WSACTJOE,*-WSACTJOE,C'X"
Comment					
Work area for \$#POST					
End of Comment					
1640	(668)	BITSTRING	568	WSATWSP	Temporary WSP
2208	(8A0)	BITSTRING	50	WSAPRTBL	Room for 5 PRMODEs
2258	(8D2)	BITSTRING	34	WSASPLWA	Working spools used mask
2292	(8F4)	ADDRESS	4	WSAPSGTW	Address of GTW
2296	(8F8)	SIGNED	4	(0)	Ensure fullword alignment
2296	(8F8)	X'8F8'	0	WSALEN	**-"WSA" LENGTH OF WSA

**\$WSA Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
M00M1392	0	318	WSADELIM	168	0
WSA	0		WSAFLAG1	1C2	
WSAAREA	334		WSAFLAG2	1C3	
WSAASLAS	169		WSAFLAG3	1C4	
WSABCLVL	1C1		WSAFLG	1BA	0
WSABSTV	1C8		WSAHCT	220	
WSABSTWK	1BC		WSAID	0	E6E2C140
WSACBA	220		WSAJCOR	434	
WSACJOE	244		WSAJCT	23C	
WSACLIN	660		WSAJOA	248	
WSACLRST	98		WSAJQE	234	
WSACLVAL	1C0		WSALEN	8F8	8F8
WSACOUNT	664	65C	WSALIST	318	
WSACPAGE	664		WSALIST_PL_END		
WSACTJOE	65C			31C	334
WSACURV	1E1		WSALIST_XDELIMITER_ADDR		
WSADATAL	314			330	
WSADCT	228		WSALIST_XONECHAR_ADDR		

## \$WSA Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
	32C		WSATKPRM	334	
WSALIST_XPARAMAREA1			WSATKRCA	340	
	318		WSATKRET	358	
WSALIST_XPARAMAREA2			WSATKTKA	33C	
	31C		WSATKTOK	348	
WSALIST_XPATTERNSTR_ADDR			WSATR TAB	478	
	318		WSATWSP	668	
WSALIST_XPATTERNSTRLEN			WSAUCT	224	
	31C		WSAUSER	214	80
WSALIST_XPPDELIMITER_ADDR			WSAVERS	4	
	32C		WSAVOL	28C	
WSALIST_XPPONECHAR_ADDR			WSAVRSN	4	3
	328		WSAWJOE	240	
WSALIST_XPPPATTERNINFO_ADDR			WSAWKL1	98	
	318		WSAWKL2	100	
WSALIST_XPPPATTERNSTR_ADDR			WSAWRMSK	1FA	
	31C		WSAWSA	230	
WSALIST_XPPPATTERNSTRLEN			WSAWSLN	478	478
	320		WSAWSLST	578	
WSALIST_XPPSTRING_ADDR			WSAWSP	22C	
	31C		WSA1BEST	1C2	20
WSALIST_XPPSTRINGLEN			WSA1CHLD	1C2	8
	320		WSA1CLOC	1C2	4
WSALIST_XPPZEROORMORE_ADDR			WSA1CNET	1C2	10
	324		WSA1CRMT	1C2	2
WSALIST_XSTRING_ADDR			WSA1CURQ	1C2	1F
	320		WSA1CUSR	1C2	1
WSALIST_XSTRINGLEN			WSA1HOLD	1C2	40
	324		WSA1OPT	1C2	80
WSALIST_XZEROORMORE_ADDR			WSA2BSRC	1C3	1
	328		WSA2LOC	1C3	80
WSALISTL	334	1C	WSA2NQTM	1C3	4
WSALLIM	218		WSA2QQTM	1C3	2
WSALST	280		WSA2RMT	1C3	20
WSALSTCR	284		WSA2RQCN	1C3	8
WSAMDSTR	30C		WSA2RQTM	1C3	10
WSAMDSTU	310		WSA2USE	1C3	40
WSANDHA	268		WSA3GJOA	1C4	80
WSANDHG	260		WSA3GJQA	1C4	40
WSANDHS	26C		WSA3GOPT	1C4	20
WSANDHT	274		WSA3JPPS	1C4	10
WSANDHU	270				
WSANDH2	264				
WSANJHG	24C				
WSANJHO	254				
WSANJHOX	278				
WSANJHT	25C				
WSANJHU	258				
WSANJH2	250				
WSANTRT	288				
WSAPCE	238				
WSAPLIM	21C				
WSAPRTBL	8A0				
WSAPSGTW	8F4				
WSARSV1	5				
WSASAVE	50	0			
WSASPLWA	8D2				
WSASRVSV	8	0			
WSASTCK	27C				
WSASVLST	16A	F0F04040			
WSATABS	214				
WSATKLVA	334				
WSATKLVL	344				
WSATKNAM	35C				
WSATKNMA	338				

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## **\$WSC Information**

### **\$WSC Programming Interface information**

\_\_\_\_\_ Programming Interface information \_\_\_\_\_

**\$WSC**

\_\_\_\_\_ End of Programming Interface information \_\_\_\_\_

## Heading Information • \$WSC Map

### \$WSC Heading Information

**Common Name:** WLM Service Class Queue Anchor  
**Macro ID:** \$WSC  
**DSECT Name:** WSC  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: 0  
 Key: 1  
 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.  
**Size:** See WSCLEN  
**Created by:** \$DOGWSCQ  
**Pointed to by:** Constructed dynamically from data in BERTs  
**Serialization:** None Required  
**Function:** The WSC serves as an anchor for the workload manager service class queue for a particular service class.

### \$WSC Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	WSC	HASP WLM Service Class Queue
0	(0)	CHARACTER	8	WSCNAME	Service Class name
8	(8)	BITSTRING	4	WSCSTOK	Service Class token
12	(C)	ADDRESS	4	WSCQHEAD	Index of first JQE on the service class queue
16	(10)	BITSTRING	4	WSCREG	Affinity mask for WLM registration/dereg.
20	(14)	BITSTRING	1	WSCFLAG1	Flags
		1... ....		WSC1DREG	"B'10000000" WSCREG represents systems which have deregistered
		.1.. ....		WSC1PERM	"B'01000000" Permanent WSC
		..1. ....		WSC1IACT	"B'00100000" At least one member needs to recompute its WSCIACT
		...1 ....		WSC1INIT	"B'00010000" WSC initialized
21	(15)	BITSTRING	1		Reserved
22	(16)	SIGNED	2	WSCMAFF	Multi-Aff jobs to be selected this cycle
24	(18)	SIGNED	4	WSCDTOD	High order word of TOD when this queue became empty
28	(1C)	SIGNED	4	WSCNSTAD	Index of most recently added JQE/JQX
32	(20)	BITSTRING	1	WSCSELECT	Members that can select work based on goals
32	(20)	X'24'	0	WSCLEN1	"*-WSC" Length of first segment
36	(24)	BITSTRING	1	WSCQAFF	Members for which the class has affinity

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
-----					
Comment					
<p>The rules for counting initiators and executings batch jobs as a consequence of a \$TJnnn command are as follows:</p> <ul style="list-style-type: none"> <li>o If a job was selected by a WINIT (WLM Initiator), it is forever going to be included when counting active jobs for a service class.</li> <li>o If a job was selected by a JINIT (JES Initiator), it is forever not included when counting active jobs for a service class.</li> <li>o If an executing job's service class is changed from one class to another via a \$TJnnn,SRVCLASS=something (something can be all blanks) or a RESET MVS command and the job was selected by a WINIT, then the job will be removed from the original service class count and added to the new service class count (and the initiator count will be changed similarly). The job count can take as long as 30 seconds to be updated. The initiator count is instanteneous.</li> <li>o If a characteristic of an executing job is changed (something that influences the service class assigned to the job), then nothing will be done to alter any counts. The service class is not changed until and unless the job re-executes.</li> <li>o If a job's job class is changed to a different class and that class has the opposite mode of the original class (original was MODE=JES and new has MODE=WLM or vice versa), there will be no changing of active job count (If the job started as a WINIT job, it stays a WINIT job; if it started as a JINIT job, it stays a JINIT job).</li> </ul>					
-----					
End of Comment					
40	(28)	SIGNED	4	WSCIACT (0)	Initiators active
40	(28)	X'80'	0	WSCLN2	**-"WSCIACT" Length of init active
168	(A8)	SIGNED	4	WSCJACT (0)	Batch jobs active
168	(A8)	X'80'	0	WSCLN3	**-"WSCJACT" Length of jobs active
296	(128)	SIGNED	4	WSCGACT (0)	Batch job activity goal
296	(128)	X'80'	0	WSCLN4	**-"WSCGACT" Length of Goal
424	(1A8)	SIGNED	4	WSCSTOLN (0)	multi-affinity jobs that can be selected on other members
424	(1A8)	X'80'	0	WSCLN5	**-"WSCSTOLN" Length of stolen array
552	(228)	DBL WORD	8	(0)	
552	(228)	X'228'	0	WSCLN	**-"WSC"

## \$WSC Cross Reference

## \$WSC Cross Reference

Name	Hex Offset	Hex Value
WSC	0	
WSCDTOD	18	
WSCFLAG1	14	
WSCGACT	128	
WSCIACT	28	
WSCJACT	A8	
WSCLEN	228	228
WSCLEN1	20	24
WSCLEN2	28	80
WSCLEN3	A8	80
WSCLEN4	128	80
WSCLEN5	1A8	80
WCLSTAD	1C	
WSCMAFF	16	
WSCNAME	0	
WSCQAFF	24	
WSCQHEAD	C	
WSCREG	10	
WSCSELECT	20	
WSCSTOK	8	
WSCSTOLN	1A8	
WSC1DREG	14	80
WSC1IACT	14	20
WSC1INIT	14	10
WSC1PERM	14	40

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## \$WSP Information

### \$WSP Programming Interface information

Programming Interface information

#### \$WSP

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

- WSPGTW
- WSPPRTB

End of Programming Interface information

## Heading Information • \$WSP Map

### \$WSP Heading Information

**Common Name:** HASP Work Selection Parameter List  
**Macro ID:** \$WSP  
**DSECT Name:** WSP  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** WSP  
 Offset: WSPID2-WSP  
 Length: 4  
**Storage Attributes:** Subpool: 2  
 Key: 1  
 Residency: Virtual and real are anywhere  
**Size:** See WSPLNG  
**Created by:** As part of DCT creation (see \$DCT).  
 Whenever SAPI (Sysout API) needs to select work  
**Pointed to by:** at label DCTCWS of the DCT  
 SAPWSP field of the SAP data area  
 WSAWSP field of the WSA data area  
**Serialization:** JES2 reentrancy techniques.  
**Function:** The WSP is used as a parameter list for \$#GET  
 processing. The WSP is built either as part of a  
 DCT or as a stand-alone data area created for  
 SAPI processing.  
 The WSP contains selection criteria used to select  
 JOEs or JQEs.  
 There are two types of WSPs for JOE selection:  
 - WSPs with selection by JOE token  
 - WSPs with selection expression based on the JOE  
 fields  
 WSPs for JQE selection use selection expressions  
 based on JQE fields.

### \$WSP Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	WSC	HASP WLM Service Class Queue
0	(0)	CHARACTER	8	WSCNAME	Service Class name
8	(8)	BITSTRING	4	WSCSTOK	Service Class token
12	(C)	ADDRESS	4	WSCQHEAD	Index of first JQE on the service class queue
16	(10)	BITSTRING	4	WSCREG	Affinity mask for WLM registration/dereg.
20	(14)	BITSTRING	1	WSCFLAG1	Flags
		1... ....		WSC1DREG	"B'10000000" WSCREG represents systems which have deregistered
		.1.. ....		WSC1PERM	"B'01000000" Permanent WSC
		..1. ....		WSC1IACT	"B'00100000" At least one member needs to recompute its WSCIACT
		...1 ....		WSC1INIT	"B'00010000" WSC initialized
21	(15)	BITSTRING	1		Reserved
22	(16)	SIGNED	2	WSCMAFF	Multi-Aff jobs to be selected this cycle
24	(18)	SIGNED	4	WSCDTOD	High order word of TOD when this queue became empty
28	(1C)	SIGNED	4	WSC1STAD	Index of most recently added JQE/JQX
32	(20)	BITSTRING	1	WSCSELECT	Members that can select work based on goals
32	(20)	X'24'	0	WSCLEN1	"*-WSC" Length of first segment
36	(24)	BITSTRING	1	WSCQAFF	Members for which the class has affinity



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
-----					
Comment					
<p>The rules for counting initiators and executings batch jobs as a consequence of a \$TJnnn command are as follows:</p> <ul style="list-style-type: none"> <li>o If a job was selected by a WINIT (WLM Initiator), it is forever going to be included when counting active jobs for a service class.</li> <li>o If a job was selected by a JINIT (JES Initiator), it is forever not included when counting active jobs for a service class.</li> <li>o If an executing job's service class is changed from one class to another via a \$TJnnn,SRVCLASS=something (something can be all blanks) or a RESET MVS command and the job was selected by a WINIT, then the job will be removed from the original service class count and added to the new service class count (and the initiator count will be changed similarly). The job count can take as long as 30 seconds to be updated. The initiator count is instanteneous.</li> <li>o If a characteristic of an executing job is changed (something that influences the service class assigned to the job), then nothing will be done to alter any counts. The service class is not changed until and unless the job re-executes.</li> <li>o If a job's job class is changed to a different class and that class has the opposite mode of the original class (original was MODE=JES and new has MODE=WLM or vice versa), there will be no changing of active job count (If the job started as a WINIT job, it stays a WINIT job; if it started as a JINIT job, it stays a JINIT job).</li> </ul>					
-----					
End of Comment					
40	(28)	SIGNED	4	WSCIACT (0)	Initiators active
40	(28)	X'80'	0	WSCLEN2	**-"WSCIACT" Length of init active
168	(A8)	SIGNED	4	WSCJACT (0)	Batch jobs active
168	(A8)	X'80'	0	WSCLEN3	**-"WSCJACT" Length of jobs active
296	(128)	SIGNED	4	WSCGACT (0)	Batch job activity goal
296	(128)	X'80'	0	WSCLEN4	**-"WSCGACT" Length of Goal
424	(1A8)	SIGNED	4	WSCSTOLN (0)	multi-affinity jobs that can be selected on other members
424	(1A8)	X'80'	0	WSCLEN5	**-"WSCSTOLN" Length of stolen array
552	(228)	DBL WORD	8	(0)	
552	(228)	X'228'	0	WSCLEN	**-"WSC"

## \$WSP Cross Reference

### \$WSP Cross Reference

Name	Hex Offset	Hex Value
WSC	0	
WSCDTOD	18	
WSCFLAG1	14	
WSCGACT	128	
WSCIACT	28	
WSCJACT	A8	
WSCLEN	228	228
WSCLEN1	20	24
WSCLEN2	28	80
WSCLEN3	A8	80
WSCLEN4	128	80
WSCLEN5	1A8	80
WCLSTAD	1C	
WSCMAFF	16	
WSCNAME	0	
WSCQAFF	24	
WSCQHEAD	C	
WSCREG	10	
WSCSELCT	20	
WSCSTOK	8	
WSCSTOLN	1A8	
WSC1DREG	14	80
WSC1IACT	14	20
WSC1INIT	14	10
WSC1PERM	14	40

## \$XBCWORK Information

### \$XBCWORK Heading Information

**Common Name:** \$XBCAST parameter list/work area  
**Macro ID:** \$XBCWORK  
**DSECT Name:** XBCWORK  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'XBCW'  
 Offset: XBCEYE  
 Length: L'XBCEYE  
**Storage Attributes:** Subpool: 1  
 Key: 1  
 Residency: JES2 address space. Virtual and Real are above or below the 16M line.  
**Size:** See XBCWLEN  
**Created by:** \$XBCAST macro  
**Pointed to by:** R1 when routine XCFBCAST is called  
**Serialization:** JES2 main task re-entrancy.  
**Function:** This control block contains the parameters and work area for the XCFBCAST routine. It is created and initialized by the \$XBCAST macro.

### \$XBCWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	XBCWORK	XBCAST parm list/work area
0	(0)	CHARACTER	4	XBCEYE	Eyecatcher
4	(4)	ADDRESS	1	XBCVERS	Version
4	(4)	X'1'	0	XBCVERSN	"1" Current version
5	(5)	BITSTRING	1	XBCOPT	Broadcast options:
		1... ....		XBSNDLOC	"B'10000000" Send to local member
		.1... ....		XBXSYPGRP	"B'01000000" Use cross system data retrieval XCF group
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	4	XBCBUFA	Address of buffer to send
12	(C)	ADDRESS	4	XBCBUFL	Length of buffer
16	(10)	ADDRESS	4	XBCMASKA	Address of affinity field
20	(14)	ADDRESS	4	XBCMBNA	Address of mail box name
24	(18)	CHARACTER	16	XBCMEMBN	Member name work area
40	(28)	ADDRESS	4	XBCXGTKN	XCF group token work area
44	(2C)	BITSTRING	4		Reserved
48	(30)	DBL WORD	8	XBCXLST (0)	Doubleword aligned

Comment

```
----- IXZXISM MF=(L,XBCXISM) Send message
      MACDATE -10/16/01-<2>
```

End of Comment

0	(0)	X'30'	0	M00M1395	"XBCXISM" ++ IXZXISM NAME
48	(30)	DBL WORD	8	XBCXISM (0)	++ IXZXISM PARM LIST
48	(30)	BITSTRING	1	XBCXISM_XVERSION	++ INPUT XVERSION
49	(31)	CHARACTER	6	XBCXISM_XEYECATCH	++ CONSTANT XEYECATCH
55	(37)	BITSTRING	1	XBCXISM_XMSGATTR	++ INPUT
		1... ....		XBCXISM_XMSGATTR_J3CONNECT	"B'10000000" ++ XMSGATTR.J3CONNECT KEYWORD
		.1... ....		XBCXISM_XMSGATTR_EXPRESS	

# \$XBCWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
56	(38)	CHARACTER	16	XBCXIXSM_XMBOXNAME	"B'01000000" ++ XMSGATTR.EXPRESS KEYWORD ++ XMBOXNAME
72	(48)	CHARACTER	16	XBCXIXSM_XMEMBER	++ XMEMBER
88	(58)	ADDRESS	4	XBCXIXSM_XDATA	++ XDATA
92	(5C)	SIGNED	4	XBCXIXSM_XDATALEN	++ XDATALEN
96	(60)	BITSTRING	8	XBCXIXSM_XREQTOKEN	++ XREQTOKEN
104	(68)	CHARACTER	16	XBCXIXSM_XREQMBOX	++ XREQMBOX
120	(78)	SIGNED	4	XBCXIXSM_XDATAALET	++ XDATAALET
124	(7C)	SIGNED	4	XBCXIXSM_XRESPDALT	++ XRESPDALT
128	(80)	SIGNED	4	XBCXIXSM_XECB	++ XECB
132	(84)	SIGNED	4	XBCXIXSM_XEXIT	++ XEXIT
136	(88)	BITSTRING	8	XBCXIXSM_XCONNECT	++ XCONNECT
144	(90)	SIGNED	4	XBCXIXSM_XGROUPTOKEN	++ XGROUPTOKEN
148	(94)	SIGNED	4	XBCXIXSM_XUSERRC	++ XUSERRC
152	(98)	SIGNED	4	XBCXIXSM_XRESPDATA	++ XRESPDATA
156	(9C)	SIGNED	4	XBCXIXSM_XRESPDLEN	++ XRESPDLEN
160	(A0)	CHARACTER	4	XBCXIXSM_XRSV00001	++ RESERVED XRSV00001
164	(A4)	BITSTRING	8	XBCXIXSM_XMSGTOKEN	++ XMSGTOKEN
172	(AC)	SIGNED	4	XBCXIXSM_XRIPSIZE	++ XRIPSIZE
176	(B0)	BITSTRING	1	XBCXIXSM_XREQTYPE	++ INPUT XBCXIXSM_XREQTYPE_ASYNC "B'10000000" ++ XREQTYPE.ASYNC KEYWORD .1.. .... XBCXIXSM_XREQTYPE_SYNC "B'01000000" ++ XREQTYPE.SYNC KEYWORD ..1. .... XBCXIXSM_XREQTYPE_ASYNCACK "B'00100000" ++ XREQTYPE.ASYNACK KEYWORD ...1 .... XBCXIXSM_XREQTYPE_COMM "B'00010000" ++ XREQTYPE.COMM KEYWORD
177	(B1)	BITSTRING	1	XBCXIXSM_XSEGTYPE	++ INPUT XBCXIXSM_XSEGTYPE_SINGLE "B'10000000" ++ XSEGTYPE.SINGLE KEYWORD .1.. .... XBCXIXSM_XSEGTYPE_FIRST "B'01000000" ++ XSEGTYPE.FIRST KEYWORD ..1. .... XBCXIXSM_XSEGTYPE_MIDDLE "B'00100000" ++ XSEGTYPE.MIDDLE KEYWORD ...1 .... XBCXIXSM_XSEGTYPE_LAST "B'00010000" ++ XSEGTYPE.LAST KEYWORD .... 1... XBCXIXSM_XSEGTYPE_ABORT "B'00001000" ++ XSEGTYPE.ABORT KEYWORD
178	(B2)	BITSTRING	1	XBCXIXSM_XKEYS	++ FIELD_LABEL XBCXIXSM_KEYUSED_REQTYPE "B'10000000" ++ KEYUSED.REQTYPE KEYWORD .1.. .... XBCXIXSM_KEYUSED_REQTOKEN

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		..1. ....		XBCXIXSM_KEYUSED_REQMBOX	"B'01000000" ++ KEYUSED.REQTOKEN KEYWORD
		...1 ....		XBCXIXSM_KEYUSED_EXIT	"B'00100000" ++ KEYUSED.REQMBOX KEYWORD
		.... 1...		XBCXIXSM_KEYUSED_SEGTYPE	"B'00010000" ++ KEYUSED.EXIT KEYWORD
		.... .1..		XBCXIXSM_KEYUSED_CONNECT	"B'00001000" ++ KEYUSED.SEGTYPE KEYWORD
		.... ..1.		XBCXIXSM_KEYUSED_MSGTOKEN	"B'00000100" ++ KEYUSED.CONNECT KEYWORD
		.... ...1		XBCXIXSM_KEYUSED_MSGATTR	"B'00000010" ++ KEYUSED.MSGTOKEN KEYWORD
179	(B3)	BITSTRING	1	XBCXIXSM_XKEYS1	"B'00000001" ++ KEYUSED.MSGATTR KEYWORD
		1... ....		XBCXIXSM_KEYUSED_ECB	++ FIELD_LABEL
		.1.. ....		XBCXIXSM_KEYUSED_DATAALET	"B'10000000" ++ KEYUSED.ECB KEYWORD
		..1. ....		XBCXIXSM_KEYUSED_RELEASE_CADS	"B'01000000" ++ KEYUSED.DATAALET KEYWORD
		...1 ....		XBCXIXSM_KEYUSED_RIPSIZE	"B'00100000" ++ KEYUSED.RELEASE_CADS KEYWORD
179	(B3)	X'84'	0	XBCXIXSML	"B'00010000" ++ KEYUSED.RIPSIZE KEYWORD *-XBCXIXSM" ++ LENGTH OF PLIST

Comment

IXZXIXSM-2

End of Comment

184	(B8)	DBL WORD	8	(0)	Doubleword aligned
184	(B8)	X'30'	0	XBCXLIST	"XBCXLST,*-XBCXLST" IXZ list form
184	(B8)	X'B8'	0	XBCWLEN	"*-XBCWORK" Length of work area

**\$XBCWORK Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
M00M1395	0	30	XBCXIXSM_KEYUSED_RELEASE_CADS	B3	20
XBCBUFA	8		XBCXIXSM_KEYUSED_REQMBOX	B2	20
XBCBUFL	C		XBCXIXSM_KEYUSED_REQTOKEN	B2	40
XBCEYE	0		XBCXIXSM_KEYUSED_REQTYPE	B2	80
XBCMASKA	10		XBCXIXSM_KEYUSED_RIPSIZE	B3	10
XBCMBNA	14		XBCXIXSM_KEYUSED_SEGTYPE	B2	8
XBCMEMBN	18		XBCXIXSM_XCONNECT		88
XBCOPT	5		XBCXIXSM_XDATA		58
XBCVERS	4		XBCXIXSM_XDATAALET		78
XBCVERSN	4	1	XBCXIXSM_XDATALEN		5C
XBCWLEN	B8	B8	XBCXIXSM_XECB		80
XBCWORK	0		XBCXIXSM_XEXIT		84
XBCXGTKN	28		XBCXIXSM_XEYECATCH		31
XBCXIXSM	30				
XBCXIXSM_KEYUSED_CONNECT	B2	4			
XBCXIXSM_KEYUSED_DATAALET	B3	40			
XBCXIXSM_KEYUSED_ECB	B3	80			
XBCXIXSM_KEYUSED_EXIT	B2	10			
XBCXIXSM_KEYUSED_MSGATTR	B2	1			
XBCXIXSM_KEYUSED_MSGTOKEN	B2	2			

## \$XBCWORK Cross Reference

Name	Hex Offset	Hex Value
XBCXIXSM_XGROUPTOKEN	90	
XBCXIXSM_XKEYS	B2	
XBCXIXSM_XKEYS1	B3	
XBCXIXSM_XMBOXNAME	38	
XBCXIXSM_XMEMBER	48	
XBCXIXSM_XMSGATTR	37	
XBCXIXSM_XMSGATTR_EXPRESS	37	40
XBCXIXSM_XMSGATTR_J3CONNECT	37	80
XBCXIXSM_XMSGTOKEN	A4	
XBCXIXSM_XREQMBOX	68	
XBCXIXSM_XREQTOKEN	60	
XBCXIXSM_XREQTYPE	B0	
XBCXIXSM_XREQTYPE_ASYNC	B0	80
XBCXIXSM_XREQTYPE_ASYNCACK	B0	20
XBCXIXSM_XREQTYPE_COMM	B0	10
XBCXIXSM_XREQTYPE_SYNC	B0	40
XBCXIXSM_XRESPDALT	7C	
XBCXIXSM_XRESPDATA	98	
XBCXIXSM_XRESPDLEN	9C	
XBCXIXSM_XRIPSIZE	AC	
XBCXIXSM_XRSV00001	A0	
XBCXIXSM_XSEGTYPE	B1	
XBCXIXSM_XSEGTYPE_ABORT	B1	8
XBCXIXSM_XSEGTYPE_FIRST	B1	40
XBCXIXSM_XSEGTYPE_LAST	B1	10
XBCXIXSM_XSEGTYPE_MIDDLE	B1	20
XBCXIXSM_XSEGTYPE_SINGLE	B1	80
XBCXIXSM_XUSERRC	94	
XBCXIXSM_XVERSION	30	
XBCXIXSML	B3	84
XBCXLIST	B8	30
XBCXLST	30	
XBSNDLOC	5	80
XBXSYPGRP	5	40

## \$XCMWORK Information

### \$XCMWORK Heading Information

**Common Name:** JES2 XCFCMND PCE Work Area  
**Macro ID:** \$XCMWORK  
**DSECT Name:** PCE (\$XCMWORK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4

**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE

**Size:** See symbol XCMPCWEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

**Created by:** See \$PCE  
**Pointed to by:** The \$XCMPCE field of the \$HCT data area  
 See \$PCE for other pointer fields that apply to all PCE types.

**Serialization:** Normal PCE dispatch serialization

**Function:** The fields in this work area are used by a JES2 XCFCMND Processor and by its support routines and exits. \$XCMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$XCMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEXCMID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

### \$XCMWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
312	(138)	CHARACTER	16	XCMMBNAM	XCF CMD Mail box name
328	(148)	SIGNED	4	XCMXCECB (0)	XECB for XCF posts
352	(160)	ADDRESS	4	XCMXBUFA	Address of current XREQ
356	(164)	ADDRESS	4	XCMXBUFP	Current data area pointer
360	(168)	SIGNED	4	XCMXBUFL	Current data area length
364	(16C)	BITSTRING	8	XCMXTOKN	Current XCF message token
372	(174)	ADDRESS	4	XCMACKPT	Acknowledgement XREQ ptr
376	(178)	SIGNED	4	XCMERRCT	ABEND count
Comment					
List form macros for JESXCF services					
End of Comment					
384	(180)	DBL WORD	8	(0)	
384	(180)	BITSTRING	160	XCMIXLST	JESXCF list form macros
544	(220)	DBL WORD	8	XCMIXEND (0)	End of list form area

# \$XCMWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
----- IXZXIXAC MF=(L,XCMXIXAC) Acknowledge message MACDATE -11/12/03-<1>					
End of Comment					
0	(0)	X'180'	0	M00M1399	"XCMXIXAC" ++ IXZXIXAC NAME
384	(180)	DBL WORD	8	XCMXIXAC (0)	++ IXZXIXAC PARM LIST
384	(180)	BITSTRING	1	XCMXIXAC_XVERSION	++ INPUT XVERSION
385	(181)	CHARACTER	6	XCMXIXAC_XEYECATCH	++ CONSTANT XEYECATCH
391	(187)	BITSTRING	1	XCMXIXAC_XSTB	++ INPUT
		1... ....		XCMXIXAC_XSTB_NO	"B'10000000" ++ XSTB.NO KEYWORD
		.1.. ....		XCMXIXAC_XSTB_YES	"B'01000000" ++ XSTB.YES KEYWORD
392	(188)	BITSTRING	8	XCMXIXAC_XMSGTOKEN	++ XMSGTOKEN
400	(190)	ADDRESS	4	XCMXIXAC_XDATA	++ XDATA
404	(194)	SIGNED	4	XCMXIXAC_XDATALEN	++ XDATALEN
408	(198)	SIGNED	4	XCMXIXAC_XUSERRC	++ XUSERRC
412	(19C)	SIGNED	4	XCMXIXAC_XGROUPTOKEN	++ XGROUPTOKEN
416	(1A0)	SIGNED	4	XCMXIXAC_XSYSRC	++ XSYSRC
420	(1A4)	SIGNED	4	XCMXIXAC_XSYSRSN	++ XSYSRSN
424	(1A8)	BITSTRING	1	XCMXIXAC_XKEYS	++ FIELD_LABEL
		1... ....		XCMXIXAC_KEYUSED_DATA	"B'10000000" ++ KEYUSED.DATA KEYWORD
		.1.. ....		XCMXIXAC_KEYUSED_DATALEN	"B'01000000" ++ KEYUSED.DATALEN KEYWORD
		..1. ....		XCMXIXAC_KEYUSED_USERRC	"B'00100000" ++ KEYUSED.USERRC KEYWORD
		...1 ....		XCMXIXAC_KEYUSED_SYSRC	"B'00010000" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		XCMXIXAC_KEYUSED_SYSRSN	"B'00001000" ++ KEYUSED.SYSRSN KEYWORD
425	(1A9)	BITSTRING	1	XCMXIXAC_XMSGATTR	++ INPUT
		1... ....		XCMXIXAC_XMSGATTR_J3CONNECT	"B'10000000" ++ XMSGATTR.J3CONNECT KEYWORD
		.1.. ....		XCMXIXAC_XMSGATTR_EXPRESS	"B'01000000" ++ XMSGATTR.EXPRESS KEYWORD
425	(1A9)	X'2A'	0	XCMXIXACL	"*-XCMXIXAC" ++ LENGTH OF PLIST
Comment					
IXZXIXAC-1					
End of Comment					
426	(1AA)	ADDRESS	2	(0)	Ensure area fits



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
----- IXZXIXMB MF=(L,XCMXIXMB) Create mailbox MACDATE -93/05/10-<1>					
End of Comment					
384	(180)	SIGNED	2	M00M1401 (0)	IXZXIXMB-1
384	(180)	DBL WORD	8	XCMXIXMB (0)	++ IXZXIXMB PARM LIST
384	(180)	BITSTRING	1	XCMXIXMB_XVERSION	++ INPUT XVERSION
385	(181)	CHARACTER	6	XCMXIXMB_XEYECATCH	++ CONSTANT XEYECATCH
391	(187)	CHARACTER	1	XCMXIXMB_XRSV0001	++ RESERVED XRSV0001
392	(188)	CHARACTER	16	XCMXIXMB_XMBOXNAME	++ XMBOXNAME
408	(198)	ADDRESS	4	XCMXIXMB_XPOSTXIT	++ XPOSTXIT
412	(19C)	ADDRESS	4	XCMXIXMB_XPOSTDATA	++ XPOSTDATA
416	(1A0)	SIGNED	4	XCMXIXMB_XPOSTALET	++ XPOSTALET
420	(1A4)	SIGNED	4	XCMXIXMB_XGROUPTOKEN	++ XGROUPTOKEN
424	(1A8)	BITSTRING	1	XCMXIXMB_XSYSEVENTS	++ FIELD_LABEL
		1... ....		XCMXIXMB_XSYSEVENT_YES	"B'10000000" ++ XSYSEVENT.YES KEYWORD
		.1.. ....		XCMXIXMB_XSYSEVENT_NO	"B'01000000" ++ XSYSEVENT.NO KEYWORD
424	(1A8)	X'29'	0	XCMXIXMBL	**XCMXIXMB" ++ LENGTH OF PLIST
Comment					
IXZXIXMB-1					
End of Comment					
426	(1AA)	ADDRESS	2	(0)	Ensure area fits
Comment					
----- IXZXIXMD MF=(L,XCMXIXMD) Delete mailbox MACDATE -93/05/10-<1>					
End of Comment					
384	(180)	SIGNED	2	M00M1402 (0)	IXZXIXMD-1
384	(180)	DBL WORD	8	XCMXIXMD (0)	++ IXZXIXMD PARM LIST
384	(180)	BITSTRING	1	XCMXIXMD_XVERSION	++ INPUT XVERSION
385	(181)	CHARACTER	6	XCMXIXMD_XEYECATCH	++ CONSTANT XEYECATCH
391	(187)	BITSTRING	1	XCMXIXMD_XSTB	++ INPUT
		1... ....		XCMXIXMD_XSTB_NO	"B'10000000" ++ XSTB.NO KEYWORD
		.1.. ....		XCMXIXMD_XSTB_YES	"B'01000000" ++ XSTB.YES KEYWORD
392	(188)	CHARACTER	16	XCMXIXMD_XMBOXNAME	++ XMBOXNAME
408	(198)	SIGNED	4	XCMXIXMD_XGROUPTOKEN	++ XGROUPTOKEN
408	(198)	X'1C'	0	XCMXIXMDL	**XCMXIXMD" ++ LENGTH OF PLIST

# \$XCMWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
IXZXIXMD-1					
End of Comment					
412	(19C)	ADDRESS	2	(0)	Ensure area fits
Comment					
----- IXZXIXRM MF=(L,XCMXIXRM) Receive message MACDATE -93/05/10-<1>					
End of Comment					
384	(180)	SIGNED	2	M00M1403 (0)	IXZXIXRM-1
384	(180)	DBL WORD	8	XCMXIXRM (0)	++ IXZXIXRM PARM LIST
384	(180)	BITSTRING	1	XCMXIXRM_XVERSION	++ INPUT XVERSION
385	(181)	CHARACTER	6	XCMXIXRM_XEYECATCH	++ CONSTANT XEYECATCH
391	(187)	CHARACTER	1	XCMXIXRM_XRSV0001	++ RESERVED XRSV0001
392	(188)	CHARACTER	16	XCMXIXRM_XMBOXNAME	++ XMBOXNAME
408	(198)	ADDRESS	4	XCMXIXRM_XDATA	++ XDATA
412	(19C)	SIGNED	4	XCMXIXRM_XDATALEN	++ XDATALEN
416	(1A0)	BITSTRING	8	XCMXIXRM_XMSGTOKEN	++ XMSGTOKEN
424	(1A8)	SIGNED	4	XCMXIXRM_XGROUPTOKEN	++ XGROUPTOKEN
428	(1AC)	BITSTRING	1	XCMXIXRM_XMSGFETCH	++ INPUT
		1... ..		XCMXIXRM_XMSGFETCH_ALL	"B'10000000" ++ XMSGFETCH.ALL KEYWORD
		.1... ..		XCMXIXRM_XMSGFETCH_MESSAGES	"B'01000000" ++ XMSGFETCH.MESSAGES KEYWORD
		..1. ....		XCMXIXRM_XMSGFETCH_SYSEVENT	"B'00100000" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1 ....		XCMXIXRM_XMSGFETCH_ACKS	"B'00010000" ++ XMSGFETCH.ACKS KEYWORD
429	(1AD)	BITSTRING	1	XCMXIXRM_XKEYS	++ FIELD_LABEL
		1... ..		XCMXIXRM_KEYUSED_MSGFETCH	"B'10000000" ++ KEYUSED.MSGFETCH KEYWORD
429	(1AD)	X'2E'	0	XCMXIXRML	**XCMXIXRM" ++ LENGTH OF PLIST
Comment					
IXZXIXRM-1					
End of Comment					
430	(1AE)	ADDRESS	2	(0)	Ensure area fits
Comment					
\$SCAN output work area					
End of Comment					
544	(220)	CHARACTER	1024	XCMSCANW	SCAN message work area
1568	(620)	ADDRESS	4	XCMXSJBQ	Address of current SJB queue head
1576	(628)	DBL WORD	8	(0)	Force double-word alignment
1576	(628)	X'4F0'	0	XCMPCEWS	**PCEWORK" Length of work area

**\$XCMWORK Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
M00M1399	0	180	XCMXIXMB_XGROUPTOKEN		
M00M1401	180		XCMXIXMB_XMBOXNAME	1A4	
M00M1402	180		XCMXIXMB_XPOSTALET	188	
M00M1403	180		XCMXIXMB_XPOSTDATA	1A0	
PCE	0		XCMXIXMB_XPOSTXIT	19C	
XCMACKPT	174		XCMXIXMB_XPOSTXIT	198	
XCMERRCT	178		XCMXIXMB_XRSV0001	187	
XCMIXEND	220		XCMXIXMB_XSYSEVENT_NO	1A8	40
XCMIXLST	180		XCMXIXMB_XSYSEVENT_YES	1A8	80
XCMMBNAM	138	E2E8E2D1	XCMXIXMB_XSYSEVENTS	1A8	
XCMPCEWS	628	4F0	XCMXIXMB_XVERSION	180	
XCMSCANW	220		XCMXIXMBL	1A8	29
XCMXBUFA	160		XCMXIXMD	180	
XCMXBUFL	168		XCMXIXMD_XEYECATCH	181	
XCMXBUFP	164		XCMXIXMD_XGROUPTOKEN	198	
XCMXCECB	148		XCMXIXMD_XMBOXNAME	188	
XCMXIXAC	180		XCMXIXMD_XSTB	187	
XCMXIXAC_KEYUSED_DATA	1A8	80	XCMXIXMD_XSTB_NO	187	80
XCMXIXAC_KEYUSED_DATALEN	1A8	40	XCMXIXMD_XSTB_YES	187	40
XCMXIXAC_KEYUSED_SYSRC	1A8	10	XCMXIXMD_XVERSION	180	
XCMXIXAC_KEYUSED_SYSRSN	1A8	8	XCMXIXMDL	198	1C
XCMXIXAC_KEYUSED_USERRC	1A8	20	XCMXIXRM	180	
XCMXIXAC_XDATA	190		XCMXIXRM_KEYUSED_MSGFETCH	1AD	80
XCMXIXAC_XDATALEN	194		XCMXIXRM_XDATA	198	
XCMXIXAC_XEYECATCH	181		XCMXIXRM_XDATALEN	19C	
XCMXIXAC_XGROUPTOKEN	19C		XCMXIXRM_XEYECATCH	181	
XCMXIXAC_XKEYS	1A8		XCMXIXRM_XGROUPTOKEN	1A8	
XCMXIXAC_XMSGATTR	1A9		XCMXIXRM_XKEYS	1AD	
XCMXIXAC_XMSGATTR_EXPRESS	1A9	40	XCMXIXRM_XMBOXNAME	188	
XCMXIXAC_XMSGATTR_J3CONNECT	1A9	80	XCMXIXRM_XMSGFETCH	1AC	
XCMXIXAC_XMSGTOKEN	188		XCMXIXRM_XMSGFETCH_ACKS	1AC	10
XCMXIXAC_XSTB	187		XCMXIXRM_XMSGFETCH_ALL	1AC	80
XCMXIXAC_XSTB_NO	187	80	XCMXIXRM_XMSGFETCH_MESSAGES	1AC	40
XCMXIXAC_XSTB_YES	187	40	XCMXIXRM_XMSGFETCH_SYSEVENT	1AC	20
XCMXIXAC_XSYSRC	1A0		XCMXIXRM_XMSGTOKEN		
XCMXIXAC_XSYSRSN	1A4				
XCMXIXAC_XUSERRC	198				
XCMXIXAC_XVERSION	180				
XCMXIXACL	1A9	2A			
XCMXIXMB	180				
XCMXIXMB_XEYECATCH	181				

## \$XCMWORK Cross Reference

Name	Hex Offset	Hex Value
	1A0	
XCMXIXRM_XRSV0001		
	187	
XCMXIXRM_XVERSION		
	180	
XCMXIXRML	1AD	2E
XCMXSJBQ	620	
XCMXTOKN	16C	

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## \$XECB Information

### \$XECB Programming Interface information

Programming Interface information

\$XECB

End of Programming Interface information

## Heading Information • \$XECB Map

### \$XECB Heading Information

**Common Name:** JES2 Extended event control block  
**Macro ID:** \$XECB  
**DSECT Name:** XECB  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: Any  
 Key: Any system key (0-7)  
 Residency: Anywhere in the private address space  
**Size:** See XECBLEN  
**Created by:** Generally part of other data areas  
**Pointed to by:** \$EXTECBQ field of the \$HCT data area  
 \$XECBQ field of the \$HCT data area  
 XECBCHNS field of the \$XECB data area  
 XECBPSTC field of the \$XECB data area  
**Serialization:** The XECBCHNS field may only be changed by the JES2 main task. The XECBPSTC field must be updated via compare and swap logic. Standard ECB serialization techniques must be used to update the XECBECB field. These include owning the local lock to update an initialized ECB (X'80000000' of the XECBECB field) and compare and swap if not.  
**Function:** XECBs are used for 2 purposes depending on the environment. In the JES2 main task, they are used to ensure a PCE is \$POSTed when an ECB is posted. This uses the first mapping of the XECB and the \$WAIT, \$XECBSRV, and MVS post service.  
 The second use of XECBs can occur in any environment. This function allows for a processing routine to get control when the ECB is posted. In this case, the \$XECBSRV service is used to set up the XECB, identify the processing routine and the parameter to pass to the processing routine. The processing routine can get control in task or SRB mode. See \$XECBSRV for more information.

### \$XECB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	XECB	XECB DSECT
0	(0)	SIGNED	4	XECBECB	EXTENDED EVENT CONTROL BLOCK
4	(4)	SIGNED	4	XECBPCE	PCE to dispatch on MVS POST (high bit off)
8	(8)	BITSTRING	12	XECBCHNS (0)	NEXT 3 FIELDS STAY TOGETHER
8	(8)	SIGNED	4	XECBQNT	A(NEXT XECB) ON \$XECBQ
12	(C)	SIGNED	4	XECBPSTC	POSTED ECB CHAINING FIELD
16	(10)	SIGNED	4	XECBQPRV	A(PREVIOUS XECB) ON \$XECBQ
20	(14)	BITSTRING	1	XECBFLG1	General flag byte
		1... ....		XECB1CNV	"B'10000000" ECB has been converted
21	(15)	BITSTRING	3		Reserved
21	(15)	X'18'	0	XECBLEN	**XECB" EXTENDED ECB STRUCTURE LENGTH

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
Extended ECB for non-main task services					
					End of Comment
4	(4)	ADDRESS	4	XECBRTN	Processing routine address (high bit on)
8	(8)	DBL WORD	8	XECBPRM0	Register 0 on entry
16	(10)	DBL WORD	8	XECBPRM1	Register 1 on entry
16	(10)	X'18'	0	XECBULEN	**XECB" Length of XECB
24	(18)	ADDRESS	2	(0)	Ensure both XECBs
24	(18)	ADDRESS	2	(0)	are the same length

**\$XECB Cross Reference**

Name	Hex Offset	Hex Value
XECB	0	
XECBCHNS	8	
XECBECB	0	
XECBFLG1	14	
XECBLEN	15	18
XECBPCE	4	
XECBPRM0	8	
XECBPRM1	10	
XECBPSTC	C	
XECBQNXT	8	
XECBQPRV	10	
XECBRTN	4	
XECBULEN	10	18
XECB1CNV	14	80

## \$XECB Cross Reference



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## \$XEQWORK Information

### \$XEQWORK Programming Interface information

Programming Interface information

\$XEQWORK

End of Programming Interface information

## Heading Information • \$XEQWORK Map

### \$XEQWORK Heading Information

**Common Name:** JES2 Execution PCE Work Area  
**Macro ID:** \$XEQWORK  
**DSECT Name:** PCE (\$XEQWORK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4  
**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE  
**Size:** See symbol XEQPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.  
**Created by:** See \$PCE  
**Pointed to by:** \$EXECPC field of the \$HCT data area  
 See \$PCE for other pointer fields that apply to all PCE types.  
**Serialization:** Normal PCE dispatch serialization  
**Function:** The fields in this work area are used by a JES2 Execution Processor and by its support routines and exits. \$XEQWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$XEQWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEXEQID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

### \$XEQWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
312	(138)	SIGNED	4	XEQOFFST	SJB QUEUE TABLE OFFSET
316	(13C)	SIGNED	4	XEQXPARM (0)	EXIT PARM LIST
316	(13C)	SIGNED	4	XEQXSJB	EXIT PARM ONE
320	(140)	SIGNED	4	XEQNXTTK	NEXT CKPT TOKEN TO \$CHECK
324	(144)	SIGNED	4	XEQLSTTK	LAST CKPT TOKEN \$CHECKED
328	(148)	SIGNED	4	XEQTOPST	CKPT TOKEN TO BE POSTED
332	(14C)	SIGNED	4	XEQXECB (0)	HASPXEQ SVJ lock ENQ ECB
356	(164)	SIGNED	4	XEQENQST (0)	True start of ENQ list
Comment					
MACRO-DATE = 06/24/03					
End of Comment					
356	(164)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
356	(164)	ADDRESS	4		PREFIX - ECB ADDRESS
356	(164)	X'168'	0	XEQENQPL	*** X02113
360	(168)	ADDRESS	1		PELLAST flag byte. X02113
361	(169)	ADDRESS	1		PELMILEN - RNAME length.
362	(16A)	BITSTRING	1		

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
PELFLAG - flag byte 2.					
End of Comment					
363	(16B)	ADDRESS	1		PELRET - return code byte.
364	(16C)	ADDRESS	4		QNAME ADDRESS
368	(170)	ADDRESS	4		RNAME ADDRESS
368	(170)	X'164'	0	XEQENQL	"XEQENQST,*-XEQENQST" ENQ parm length, IPCS use
372	(174)	SIGNED	4	XEQDEQST (0)	True start of DEQ list
Comment					
MACRO-DATE = 10/06/2004					
End of Comment					
372	(174)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
372	(174)	X'174'	0	XEQDEQPL	*** X02113
372	(174)	ADDRESS	1		PELLAST flag byte. X02113
373	(175)	ADDRESS	1		PELMILEN - RNAME length.
374	(176)	BITSTRING	1		
Comment					
PELFLAG - flag byte 2.					
End of Comment					
375	(177)	ADDRESS	1		PELRET - return code byte.
376	(178)	ADDRESS	4		QNAME ADDRESS
380	(17C)	ADDRESS	4		RNAME ADDRESS
380	(17C)	X'174'	0	XEQDEQL	"XEQDEQST,*-XEQDEQST" DEQ parm length, IPCS use
384	(180)	CHARACTER	108	XEQMSGWA	\$WTO work area
492	(1EC)	ADDRESS	4	XEQPARAM	NODE TABLE ADDRESS
496	(1F0)	ADDRESS	4		CONTROL BLOCK ADDRESS
500	(1F4)	ADDRESS	4		ADDRESS OF JQE
504	(1F8)	ADDRESS	1		QUEUE TYPE SPECIFIED
505	(1F9)	ADDRESS	1		WORK SELECTION TYPE FLAG
506	(1FA)	ADDRESS	1		RESERVED FOR FUTURE USE
506	(1FA)	X'1EC'	0	XEQLST	"XEQPARAM,*-XEQPARAM" QGET PARAMETER LIST STORAGE
507	(1FB)	CHARACTER	2	XEQJOBBSL	FAKE JOB CARD SLASHES
509	(1FD)	CHARACTER	8	XEQJOBNM	Fake job card name in RJCS, also used as job name work area in HASPXEQ
517	(205)	CHARACTER	12	XEQJOBFN	FAKE JOB CARD FUNCTION NAME
529	(211)	BITSTRING	1	XEQSJBFB1	SJBFLG1 after SJB is freed
530	(212)	BITSTRING	1	XEQSJBFB2	SJBFLG2 after SJB is freed
531	(213)	BITSTRING	1	XEQFLAG1	Flags
		1... ....		XEQ1NDUP	"B'10000000" Skip release of jobs with duplicate jobnames
		.1.. ....		XEQ1SCAN	"B'01000000" Do scan of inits
		..1. ....		XEQ1X14	"B'00100000" Exit 14 enabled
		...1 ....		XEQ1NOPT	"B'00010000" Don't optimize class list/ service class list
		.... 1..		XEQ1714I	"B'00001000" 714 message issued at least once
		.... .1..		XEQ1PHDT	"B'00000100" Dump taken at \$PJES2 time for outstanding AS's
		.... .1.		XEQ1PHDS	"B'00000010" Conditions ripe to take HASP714 dump
		.... ...1		XEQ1PHNR	"B'00000001" No more room in ASID list supplied to SDUMPX
532	(214)	CHARACTER	7	XEQRSV1	Reserved for future use
540	(21C)	SIGNED	4	XEQHSBCT	Current count of HASB's
544	(220)	SIGNED	4	XEQHSBCP	Previous count of HASB's
552	(228)	DBL WORD	8	XEQWTTIM	Time of last wait at start of \$QGET
560	(230)	BITSTRING	4	XEQLDVID	Last used psuedo-device id
568	(238)	DBL WORD	8	XEQPHWAI	TOD when last exit from \$PHASP
576	(240)	CHARACTER	8	XEQJNAME	Jobname from job card
584	(248)	BITSTRING	1	XEQJQEF7	Copy of JQEFLAG7

## \$XEQWORK Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
585	(249)	BITSTRING	3		Reserved for future use
588	(24C)	ADDRESS	4	XEQXWM	Queue head for sevice class optimization elements
592	(250)	SIGNED	4	XEQPTIME	TOD \$PJES2 process'g began wait-a-bit loop
596	(254)	SIGNED	4	XEQDTIME	TOD \$PJES2 processing began interval to HASP714 dump
600	(258)	SIGNED	2	XEQASIDL (5)	ASID list for SDUMPX and HASP715
600	(258)	X'5'	0	XEQASDNO	"(*-XEQASIDL)/2" Number of ASIDs allowed
610	(262)	BITSTRING	2		Reserved for future use
612	(264)	SIGNED	4	XEQDOMID	DOMID for \$HASP714
616	(268)	BITSTRING	12	XEQTQE	XEQ TQE for \$STIMER
628	(274)	SIGNED	1	XEQSJBPR	Priority of job from SJB
629	(275)	BITSTRING	1	XEQSJFN1	Request type from SJB
630	(276)	BITSTRING	2		Reserved for future use
632	(278)	SIGNED	4	XEQ715DM	DOMID for \$HASP715
636	(27C)	CHARACTER	8	XEQJBNML (5)	JOBNAME list for HASP715
636	(27C)	X'5'	0	XEQJBNMN	"(*-XEQJBNML)/8" Number of JOBNAMEs allowed
676	(2A4)	SIGNED	4	XEQASDSA	ASDS data space ALET
680	(2A8)	BITSTRING	1	XEQWLMIS	WLM Init ASDS ent stat updt
681	(2A9)	BITSTRING	15	XEQRSV2	Reserved for future use
696	(2B8)	DBL WORD	8	(0)	ALIGN XEQ WORK
696	(2B8)	X'180'	0	XEQPCEWS	"*-PCEWORK" XEQ PCE WORK AREA LENGTH

## \$XEQWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PCE	0		XEQTQE	268	
XEQASDNO	258	5	XEQWLMIS	2A8	
XEQASDSA	2A4		XEQWTTIM	228	
XEQASIDL	258		XEQXECB	14C	
XEQDEQL	17C	174	XEQXPARM	13C	
XEQDEQPL	174	174	XEQXSJB	13C	
XEQDEQST	174		XEQXWM	24C	
XEQDOMID	264		XEQ1NDUP	213	80
XEQDTIME	254		XEQ1NOPT	213	10
XEQENQL	170	164	XEQ1PHDS	213	2
XEQENQPL	164	168	XEQ1PHDT	213	4
XEQENQST	164		XEQ1PHNR	213	1
XEQFLAG1	213		XEQ1SCAN	213	40
XEQHSBCP	220		XEQ1X14	213	20
XEQHSBCT	21C		XEQ1714I	213	8
XEQJBNML	27C		XEQ715DM	278	
XEQJBNMN	27C	5			
XEQJNAME	240				
XEQJOBFN	205				
XEQJOBNM	1FD				
XEQJOBSL	1FB				
XEQJQEF7	248				
XEQLDVID	230				
XEQLST	1FA	1EC			
XEQLSTTK	144				
XEQMSGWA	180				
XEQNXTTK	140				
XEQOFFST	138				
XEQPARM	1EC				
XEQPCEWS	2B8	180			
XEQPHWAI	238				
XEQPTIME	250				
XEQRSV1	214				
XEQRSV2	2A9				
XEQSJB1	211				
XEQSJB2	212				
XEQSJBPR	274				
XEQSJFN1	275				
XEQTOPST	148				

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## \$XFMWORK Information

### \$XFMWORK Programming Interface information

Programming Interface information

\$XFMWORK

End of Programming Interface information

## Heading Information • \$XFMWORK Map

### \$XFMWORK Heading Information

**Common Name:** SPOOL Transfer I/O Manager Work Area  
**Macro ID:** \$XFMWORK  
**DSECT Name:** PCE (\$XFMWORK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4  
**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE  
**Size:** See symbol XFMLEN for the length of this work area. The overall length of the PCE is stored in field PCELENG.  
**Created by:** See \$PCE  
**Pointed to by:** The \$SOMPCE field of the \$HCT data area  
 See \$PCE for other pointer fields that apply to all PCE types.  
**Serialization:** Normal PCE dispatch serialization  
**Function:** The fields in this PCE work area area used by the SPOOL offload manager PCE. \$XFMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$XFMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEXFMDID in the second byte of field PCEID.  
 This PCE is not device related. Field PCEDCT is zero.

### \$XFMWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP SPOOL TRANSFER I/O MANAGER
312	(138)	BITSTRING	12	XFMSCTQE	TQE FOR TERMIN. INTERVAL SCANS
324	(144)	ADDRESS	4	XFMSCPTR	POINTER TO NEXT SCAN ELEMENT
328	(148)	ADDRESS	4	XFMBUFQ	QUEUE FOR REORDERED COMPLETE BUFFERS
332	(14C)	ADDRESS	4	XFMSCDCT	SAVE AREA FOR SUBT SCAN DCT PNTR
336	(150)	DBL WORD	8	XFMC TIME	WORK AREA FOR TERM INTERVL SCAN
344	(158)	BITSTRING	1	XFMMASK	COPY OF LOW ORDER BYTE OF \$STIMASK
345	(159)	BITSTRING	1	XF MFLAG1	TIMER ACTIVE FLAG
		1111 1111		XF M1TACT	"X'FF" TIMER IS ACTIVE
		.... ....		XF M1EXP	"X'00" TIMER IS EXPIRED
346	(15A)	BITSTRING	1	XF MFLAG2	SECOND FLAG BYTE
		1... ....		XF M2STRT	"B'10000000" TRANS/RECEIVER BEEN STARTED
347	(15B)	CHARACTER	125	XF MMSG	AREA FOR BUILDING MESSAGES
347	(15B)	X'A0'	0	XFMLEN	"*-PCEWORK" JOB RECEIVER PCE WORK AREA LENGTH

**\$XFMWORK Cross Reference**

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
PCE	0	
XFMBUFQ	148	
XFMC TIME	150	
XF MFLAG1	159	
XF MFLAG2	15A	
XFMLEN	15B	A0
XFMMASK	158	
XFMMSG	15B	
XFMSCDCT	14C	
XFMSCPTR	144	
XFMSCTQE	138	
XF M1EXP	159	0
XF M1TACT	159	FF
XF M2STRT	15A	80

## \$XFMWORK Cross Reference



## \$XIT Information

### \$XIT Heading Information

**Common Name:** Exit information table

**Macro ID:** \$XIT

**DSECT Name:** XIT

**Owning Component:** JES2 (SC1BH)

**Eye-Catcher ID:** 'XIT '

Offset: -8 (prefix field \$CSPID, before all XITs)

Length: 4

**Storage Attributes:** Subpool: 241

Key: 1

Residency: Virtual and real storage are anywhere, above or below 16M, in common storage.

**Size:** See the XITLNGTH equate.

**Created by:** A temporary XIT is created early in initialization in JES2 private storage. The permanent XIT is created in common storage by JES2 initialization after exit-related parameters are processed.

**Pointed to by:** The first XIT entry (exit 0) is pointed to by the \$XITADDR field of the \$HCT data area, and by the CCTXITA field in the \$HCCT data area.

**Serialization:** The fields that define an exit point and its routines are determined during JES2 initialization and should remain read-only afterward. The flags can be changed by the JES2 main task, for example via commands. The use count is managed with compare-and-swap logic.

**Function:** The XIT is used as part of the JES2 installation exit facilities. It defines the exit points, points to the exit routines associated with each exit point, and is used for status and control information.

### \$XIT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	XIT	HASP EXIT INFO TABLE DSECT
0	(0)	BITSTRING	1	XITFLAGS	EXIT FLAGS
		1... ....		XITENBLD	"B'10000000" Exit is enabled
		.1.. ....		XITTRACE	"B'01000000" Exit is tracing
0	(0)	X'CO'	0	XITEBLTR	"XITENBLD+XITTRACE" Enabled and tracing
		..1. ....		XITENTDS	"B'00100000" Exit was entered while it was disabled
		...1 ....		XITRFRSH	"B'00010000" Refresh routine list
		.... 1..		XITBPD	"B'00001000" Bypass Exit point defined check for Exit point in HASPFSSM
		.... ..1.		XITCMN	"B'00000010" Exit must be in CSA/LPA
		.... ...1		XITDEF	"B'00000001" Exit is defined
0	(0)	X'81'	0	XITDENBL	"XITDEF+XITENBLD" EXIT IS DEFINED AND ENABLED
1	(1)	ADDRESS	1	XITNUMBR	Exit number
2	(2)	BITSTRING	2		Reserved
4	(4)	ADDRESS	4	XITXRTAD	Address of the first XRT entry for this exit point
8	(8)	CHARACTER	1	XITENVIR	Assembly environment(s) for the exit, see MITENVIR
9	(9)	BITSTRING	2		Reserved for future use
11	(B)	BITSTRING	1	XITFDIAG	Flags for internal testing
		1... ....		XITFWTO	"B'10000000" WTO
		.1.. ....		XITFWTOL	"B'01000000" WTO (long)

## \$XIT Cross Reference

Offsets		Type/Value	Len	Name (Dim)	Description
Dec	Hex				
		..1. ....		XITFWTOR	"B'00100000" WTOR
		...1 ....		XITFWTOS	"B'00010000" WTOR (special)
		.... 1...		XITFWAIT	"B'00001000" WTOR (MVS WAIT)
		.... .1..		XITFLOOP	"B'00000100" LOOP
		.... ..1.		XITFEXIT	"B'00000010" EXIT
11	(B)	X'C'	0	XITLNGTH	"*-XIT" LENGTH OF DSECT
0	(0)	CHARACTER	12	XITE	XIT entry

## \$XIT Cross Reference

Name	Hex Offset	Hex Value
XIT	0	
XITBPD	0	8
XITCMN	0	2
XITDEF	0	1
XITDENBL	0	81
XITE	0	
XITEBLTR	0	C0
XITENBLD	0	80
XITENTDS	0	20
XITENVIR	8	
XITFDIAG	B	
XITFEXIT	B	2
XITFLAGS	0	
XITFLOOP	B	4
XITFWAIT	B	8
XITFWTO	B	80
XITFWTOL	B	40
XITFWTOR	B	20
XITFWTOS	B	10
XITLNGTH	B	C
XITNUMBR	1	
XITRFRSH	0	10
XITTRACE	0	40
XITXRTAD	4	

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## \$XMAS Information

### \$XMAS Programming Interface information

Programming Interface information

\$XMAS

End of Programming Interface information

## Heading Information • \$XMAS Map

### \$XMAS Heading Information

**Common Name:** JES2 Cross MAS Coupling Block and XCF MAS Member Status Block  
**Macro ID:** \$XMAS  
**DSECT Name:** XMA, XMAQENT  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** XMAS for XMA dsect (None for XMAQENT)  
 Offset: XMAID-XMA for XMA dsect (N/A for XMAQENT)  
 Length: L'XMAID for XMA dsect (N/A for XMAQENT)

**Storage Attributes:** Subpool: 0 for XMA, 228 for XMAQENT  
 Key: 1  
 Residency: Virtual and real storage for XMA are anywhere in the JES2 address space.  
 Virtual and real storage for XMAQENT are anywhere in ECSA.

**Size:** See XMALEN for XMA dsect  
 See XMAQELEN for XMAQENT dsect

**Created by:** JES2 Initialization for XMA (and XRENXMAS recovery routine in HASPXCF).  
 XCFJOIN routine in HASPXCF for XMAQENT.

**Pointed to by:** XMA  
 - \$XMASADR field of the \$HCT data area  
 XMAQENT  
 - CCTXMAQ field of the \$HCCT data area

**Serialization:** None required

**Function:** The JES2 cross MAS coupling block (XMA) is used to maintain the fields used for cross member and cross MAS communication.

The XCF MAS member status block (XMAQENT) contains current status information for the member. It is also used to communicate \$ESYS requests from the XCF PCE to the WARM start PCE.

### \$XMAS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	XMA	Cross MAS Coupling DSECT
0	(0)	CHARACTER	4	XMAID	XMAS Identifier
4	(4)	BITSTRING	1	XMAVRSN	XMAS Version
4	(4)	X'2'	0	XMAVNUM	"2" Version Number
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	DBL WORD	8	XMAMEMDT	MEMDATA passed on join Reserved for IBM use
16	(10)	BITSTRING	8		Reserved for future use
24	(18)	BITSTRING	16	XMAMEMNM	XCF member name consists of node name and SID with blanks removed
40	(28)	SIGNED	4	XMARTN	XCF return code
44	(2C)	SIGNED	4	XMARSN	XCF reason code
48	(30)	CHARACTER	8	XMASERV	JESXCF service name
56	(38)	BITSTRING	1	XMAFLAG1	Footprint flag
		1.. ..		XMA1JOIN	"B'10000000" Join complete
		.1.. ..		XMA1INIT	"B'01000000" XCF processor initialized
		...1 ..		XMA1AXMA	"B'00010000" This is an alternate XMAS
57	(39)	BITSTRING	1	XMAFLAG2	FRR flag
		1.. ..		XMA2FRR	"B'10000000" Group exit FRR entered once
		.1.. ..		XMA2CDEL	"B'01000000" Cell to delete in XCFGEX
58	(3A)	BITSTRING	1	XMAMODE	Sysplex mode FLAG
		.... ..1		XMAMLOCL	"B'00000001" Local mode
59	(3B)	BITSTRING	1	XMAFLAG3	Flag is used for footprint
		1.. ..		XMA3INIT	"B'10000000" In XCFINIT code
		.1.. ..		XMA3SYSG	"B'01000000" In XCFSGONE routine

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...1 ....		XMA3MEMS	"B'00100000" In XCFEMEMS routine
		...1 ....		XMA3USRS	"B'00010000" In XCFEUSRS routine
		.... 1...		XMA3JOIN	"B'00001000" In XCFJOIN routine
		.... .1..		XMA3USTA	"B'00000100" In XCFUSTAT routine
		.... .1.		XMA3LEAV	"B'00000010" In XCFLEAVE routine
		.... ...1		XMA3QUER	"B'00000001" In XCFQSTAT routine
60	(3C)	BITSTRING	1	XMAFLAG4	Flag is used for footprint
		1... ....		XMA4DQ	"B'10000000" XCFMAIN process requests
		.1.. ....		XMA4MAPE	"B'01000000" XCFMAPEV maps event to QSE XCFDQ thru XCFDOR labels
		...1. ....		XMA4PURG	"B'00100000" XCFPURG delete old members
		...1 ....		XMA4DELT	"B'00010000" XCFDELETE delete old members
		.... 1...		XMA4MQUER	"B'00001000" In XCFMSTAT routine
		.... .1..		XMA4MEMN	"B'00000100" In XCFMEMN routine
		.... .1.		XMA4XMQU	"B'00000010" In XCFXMAQU routine
61	(3D)	BITSTRING	1	XMAFLAG5	Flag for service routines
		1... ....		XMA5ESYS	"B'10000000" XCFMAPEV has updated a QSE for automatic ESYS
62	(3E)	BITSTRING	1	XMAFLAG6	Flag marks blocks in error
		1... ....		XMA6XMAS	"B'10000000" \$XMAS has error fields
63	(3F)	BITSTRING	1		Reserved for IBM use
64	(40)	SIGNED	4	(0)	
64	(40)	BITSTRING	24	XMAXECB	XECB POSTed on events sent from group exit.
88	(58)	SIGNED	4		Reserved for IBM use
92	(5C)	SIGNED	4		Reserved for IBM use
92	(5C)	X'60'	0	XMAVRALN	"*-XMA" Size of area of XMAS to be included in VRA
96	(60)	SIGNED	4		Reserved for IBM use
100	(64)	BITSTRING	4	XMASYTOK (0)	System id/token for MVS
100	(64)	BITSTRING	1	XMASNUM	System slot number
101	(65)	BITSTRING	3		System number
104	(68)	CHARACTER	8	XMASYSNM	System name except in the event of IXCJOIN failure (XMA1JOIN off ) then null
112	(70)	CHARACTER	8	XMAPLXNM	Sysplex name except in the event of IXCJOIN failure (XMA1JOIN off ) then null
120	(78)	SIGNED	4	XMAPTIME	Last entry to XCFPURG
124	(7C)	SIGNED	4		Reserved for IBM use
128	(80)	CHARACTER	4	XMASIDNM	SID name work area for messages
132	(84)	SIGNED	4	XMAMADDR	Message address
136	(88)	SIGNED	4	XMAMLEN	Message length
140	(8C)	SIGNED	4	XMAMTOKE (2)	JESXCF Message token
152	(98)	DBL WORD	8	XMAMTKN	XCF Member token
160	(A0)	BITSTRING	4	XMAMEMUP	MAS member up table
164	(A4)	BITSTRING	4	XMAMEMAT	MAS member active table (XMAMEMUP + hot-startable)
168	(A8)	BITSTRING	4	XMANPMUP	NPM member up table
172	(AC)	BITSTRING	4	XMACDCUP	CDC member up table
176	(B0)	SIGNED	4	XMAAXRQ	Active XRQ being processed
180	(B4)	BITSTRING	184	XMAQDATA	Work area for XMAQENT
364	(16C)	SIGNED	4	XMADIAG	JESXCF Diagnostic area
368	(170)	DBL WORD	8	(0)	
368	(170)	CHARACTER	8	XMAJNNM	Node name use to join XCF (part of XCF member name)

Comment

XMABLDM \$BLDMSG MF=L List form of \$BLDMSG

End of Comment

376	(178)	SIGNED	4	XMABLDM (0)	Control block ID
380	(17C)	BITSTRING	4		Console ID
384	(180)	ADDRESS	4		Address of the CART
388	(184)	ADDRESS	4		Pointer for JOBID
392	(188)	ADDRESS	4		Control block address
396	(18C)	ADDRESS	4		Display routine address
400	(190)	ADDRESS	4	(6)	6 word work area
424	(1A8)	ADDRESS	4		Caller's R11 value

## \$XMAS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
428	(1AC)	BITSTRING	2		ROUT code for Message
430	(1AE)	BITSTRING	2		Not used
432	(1B0)	CHARACTER	4		Message ID
436	(1B4)	CHARACTER	1		Separator character
437	(1B5)	ADDRESS	1		Flag byte 1
438	(1B6)	ADDRESS	1		'DISPER'
439	(1B7)	ADDRESS	1		Flag byte 2
440	(1B8)	ADDRESS	1		Flag byte 3
441	(1B9)	CHARACTER	8		Symbolic name of dest.
449	(1C1)	BITSTRING	15		Not used
464	(1D0)	ADDRESS	4	(0)	Ensure multiple of 4
464	(1D0)	ADDRESS	2	(0)	
0	(0)	X'58'	0	XMABLDML	** -XMABLDM" Size of \$BLDMSGL expansion

Comment

The XMAXUS field is used to update the user state field for this member. The field is available with this member's record in XCF. The field is limited to 32 bytes and used on for the IXZXIXUS macro to change the user state field in XCF. It is also used to maintain the SYSPLEXID for the current operating sysplex.

End of Comment

464	(1D0)	DBL WORD	8	(0)	
464	(1D0)	BITSTRING	1	XMAXUSST	HASPXCF USER STATE FIELD

Comment

End of the XMAXUS field.

End of Comment

496	(1F0)	SIGNED	4	XMAMEMST	Anchor for answer area obtained to IXCQUERY all members in SYSZJES2 group
500	(1F4)	SIGNED	4	XMAOXMAS	Original XMAS. Invalid XMAS found in recovery

Comment

The following fields are used by MVS macros to return data. Because the sizes of these fields may expand without obvious indications during one assembly, these fields should not be accessed outside of the HASPXCF module. Also, fields other than the MVS fields that are to be accessed outside of this module, should precede this comment.

End of Comment

504	(1F8)	BITSTRING	16	XMAOTHMN	Work area to build and contain other member names
520	(208)	BITSTRING	8	XMAPLIWK	Sysplex id work area
528	(210)	SIGNED	4	XMAIFALN	Length of answer area
532	(214)	ADDRESS	4	XMAIFAA	IXZXIXIF answer area pointer
536	(218)	DBL WORD	8	(0)	Double word alignment

Comment

IXCQUERY MF=(L,XMAMFLQR) IXCQUERY list area  
MACDATE -04/11/12-<2>

End of Comment

0	(0)	X'218'	0	M00M1407	"XMAMFLQR" ++ IXCQUERY NAME
536	(218)	DBL WORD	8	XMAMFLQR (0)	++ IXCQUERY PARM LIST
536	(218)	BITSTRING	1	XMAMFLQR_XVERSION	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					++ INPUT XVERSION
537	(219)	BITSTRING	1	XMAMFLQR_XREQTYPE	
					++ XREQTYPE
537	(219)	X'10'	0	XMAMFLQR_XREQTYPE_IMMEDIATE	"16" ++ XREQTYPE.IMMEDIATE KEYWORD
537	(219)	X'5'	0	XMAMFLQR_XREQTYPE_DEFER	"5" ++ XREQTYPE.DEFER KEYWORD
538	(21A)	BITSTRING	1	XMAMFLQR_XREQINFO	
					++ INPUT
		1... ....		XMAMFLQR_XREQINFO_GROUP	"B'10000000" ++ XREQINFO.GROUP KEYWORD
		.1.. ....		XMAMFLQR_XREQINFO_SYSPLEX	"B'01000000" ++ XREQINFO.SYSPLEX KEYWORD
		..1. ....		XMAMFLQR_XREQINFO_CF	"B'00100000" ++ XREQINFO.CF KEYWORD
		...1 ....		XMAMFLQR_XREQINFO_STR	"B'00010000" ++ XREQINFO.STR KEYWORD
		.... 1...		XMAMFLQR_XREQINFO_CF_ALLDATA	"B'00001000" ++ XREQINFO.CF_ALLDATA KEYWORD
		.... .1..		XMAMFLQR_XREQINFO_STR_ALLDATA	"B'00000100" ++ XREQINFO.STR_ALLDATA KEYWORD
		.... ..1.		XMAMFLQR_XREQINFO_ARMSTATUS	"B'00000010" ++ XREQINFO.ARMSTATUS KEYWORD
		.... ...1		XMAMFLQR_XREQINFO_ARMS_ALLDATA	"B'00000001" ++ XREQINFO.ARMS_ALLDATA KEYWORD
539	(21B)	BITSTRING	1	XMAMFLQR_XQUAALEVEL	
					++
540	(21C)	ADDRESS	4	XMAMFLQR_XANSAREA_ADDR	
					++ ADDR
544	(220)	SIGNED	4	XMAMFLQR_XANSAREA_ALET	
					++ ALET
548	(224)	SIGNED	4	XMAMFLQR_XANSLEN	
					++
552	(228)	CHARACTER	8	XMAMFLQR_XGRPNAME	
					++
560	(230)	CHARACTER	16	XMAMFLQR_XMEMNAME	
					++
560	(230)	X'240'	0	XMAMFLQR_PL_END	*** ++ END OF BASE PLIST
560	(230)	X'28'	0	XMAMFLQRL	** -XMAMFLQR" ++ LENGTH OF PLIST

Comment

IXCQUERY-2

End of Comment

576	(240)	DBL WORD	8	(0)	Double word alignment
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Comment

IXZXIXAT MF=(L, XMAMFLAT) IXZXIXAT list area  
MACDATE -00/01/11-<6>

End of Comment

0	(0)	X'240'	0	M00M1409	"XMAMFLAT" ++ IXZXIXAT NAME
576	(240)	DBL WORD	8	XMAMFLAT (0)	++ IXZXIXAT PARM LIST
576	(240)	BITSTRING	1	XMAMFLAT_XVERSION	
					++ INPUT XVERSION
577	(241)	CHARACTER	6	XMAMFLAT_XEYECATCH	
					++ CONSTANT
583	(247)	CHARACTER	1	XMAMFLAT_XRSV0001	
					++ RESERVED
584	(248)	CHARACTER	8	XMAMFLAT_XGROUP	
					++

# \$XMAS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
592	(250)	CHARACTER	16	XMAMFLAT_XMEMBER	
608	(260)	CHARACTER	8	XMAMFLAT_XRELEASE	++
616	(268)	SIGNED	4	XMAMFLAT_XMAINTLVL	++
620	(26C)	SIGNED	4	XMAMFLAT_XGROUPTOKEN	++ CONSTANT
624	(270)	BITSTRING	1	XMAMFLAT_XFLAG1	++
					++ FIELD_LABEL
		1... ....		XMAMFLAT_XWHICHJES_JES2	"B'10000000" ++ XWHICHJES.JES2 KEYWORD
		.1.. ....		XMAMFLAT_XWHICHJES_JES3	"B'01000000" ++ XWHICHJES.JES3 KEYWORD
		..1. ....		XMAMFLAT_XWHICHJES_J3FSS	"B'00100000" ++ XWHICHJES.J3FSS KEYWORD
		...1 ....		XMAMFLAT_XWHICHJES_INIT	"B'00010000" ++ XWHICHJES.INIT KEYWORD
		.... 1...		XMAMFLAT_XWHICHJES_COMMON	"B'00001000" ++ XWHICHJES.COMMON KEYWORD
		.... .1..		XMAMFLAT_XWHICHJES_J3CIFSS	"B'00000100" ++ XWHICHJES.J3CIFSS KEYWORD
		.... ..1.		XMAMFLAT_XWHICHJES_J2SPOOL	"B'00000010" ++ XWHICHJES.J2SPOOL KEYWORD
625	(271)	BITSTRING	1	XMAMFLAT_XFLAG2	++
					++ FIELD_LABEL
		1... ....		XMAMFLAT_XJ3CONNECT_NO	"B'10000000" ++ XJ3CONNECT.NO KEYWORD
		.1.. ....		XMAMFLAT_XJ3CONNECT_YES	"B'01000000" ++ XJ3CONNECT.YES KEYWORD
626	(272)	CHARACTER	2	XMAMFLAT_XRSV0002	++ RESERVED
628	(274)	SIGNED	4	XMAMFLAT_XDIAG	++
632	(278)	CHARACTER	8	XMAMFLAT_XLINKPARMS	++
					++ FIELD_LABEL
632	(278)	X'40'	0	XMAMFLATL	"*-XMAMFLAT" ++ LENGTH OF PLIST
Comment					
IXZXIXAT-6					
End of Comment					
640	(280)	DBL WORD	8	(0)	Double word alignment
Comment					
IXZXIXDT MF=(L, XMAMFLDT) IXZXIXDT list area					
MACDATE -00/02/02-<1>					
End of Comment					
0	(0)	X'280'	0	M00M1410	"XMAMFLDT" ++ IXZXIXDT NAME
640	(280)	DBL WORD	8	XMAMFLDT (0)	++ IXZXIXDT PARM LIST
640	(280)	BITSTRING	1	XMAMFLDT_XVERSION	++
					++ INPUT XVERSION
641	(281)	CHARACTER	6	XMAMFLDT_XEYECATCH	++
					++ CONSTANT XEYECATCH
647	(287)	CHARACTER	1	XMAMFLDT_XRSV0001	++
					++ RESERVED XRSV0001
648	(288)	ADDRESS	4	XMAMFLDT_XGROUPTOKEN	++
					++ XGROUPTOKEN
652	(28C)	CHARACTER	8	XMAMFLDT_XLINKPARMS	++
					++ FIELD_LABEL XLINKPARMS
652	(28C)	X'14'	0	XMAMFLDTL	"*-XMAMFLDT" ++ LENGTH OF PLIST



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
IXZXIXDT-1					
End of Comment					
664	(298)	DBL WORD	8	(0)	Double word alignment
Comment					
IXZXIXMB MF=(L,XMAMFLMB) IXZXIXMB list area MACDATE -93/05/10-<1>					
End of Comment					
664	(298)	SIGNED	2	M00M1411 (0)	IXZXIXMB-1
664	(298)	DBL WORD	8	XMAMFLMB (0)	++ IXZXIXMB PARM LIST
664	(298)	BITSTRING	1	XMAMFLMB_XVERSION	++ INPUT XVERSION
665	(299)	CHARACTER	6	XMAMFLMB_XEYECATCH	++ CONSTANT XEYECATCH
671	(29F)	CHARACTER	1	XMAMFLMB_XRSV0001	++ RESERVED XRSV0001
672	(2A0)	CHARACTER	16	XMAMFLMB_XMBOXNAME	++ XMBOXNAME
688	(2B0)	ADDRESS	4	XMAMFLMB_XPOSTXIT	++ XPOSTXIT
692	(2B4)	ADDRESS	4	XMAMFLMB_XPOSTDATA	++ XPOSTDATA
696	(2B8)	SIGNED	4	XMAMFLMB_XPOSTALET	++ XPOSTALET
700	(2BC)	SIGNED	4	XMAMFLMB_XGROUPTOKEN	++ XGROUPTOKEN
704	(2C0)	BITSTRING	1	XMAMFLMB_XSYSEVENTS	++ FIELD_LABEL
		1... ....		XMAMFLMB_XSYSEVENT_YES	"B'10000000" ++ XSYSEVENT.YES KEYWORD
		.1... ....		XMAMFLMB_XSYSEVENT_NO	"B'01000000" ++ XSYSEVENT.NO KEYWORD
704	(2C0)	X'29'	0	XMAMFLMBL	** -XMAMFLMB" ++ LENGTH OF PLIST
Comment					
IXZXIXMB-1					
End of Comment					
708	(2C4)	SIGNED	4		Reserved for IBM use
712	(2C8)	DBL WORD	8	(0)	Double word alignment
Comment					
IXZXIXUS MF=(L,XMAMFLUS) IXZXIXUS list area MACDATE -93/05/10-<1>					
End of Comment					
712	(2C8)	SIGNED	2	M00M1412 (0)	IXZXIXUS-1
712	(2C8)	DBL WORD	8	XMAMFLUS (0)	++ IXZXIXUS PARM LIST
712	(2C8)	BITSTRING	1	XMAMFLUS_XVERSION	++ INPUT XVERSION
713	(2C9)	CHARACTER	6	XMAMFLUS_XEYECATCH	++ CONSTANT XEYECATCH
719	(2CF)	CHARACTER	1	XMAMFLUS_XRSV0001	++ RESERVED XRSV0001
720	(2D0)	CHARACTER	32	XMAMFLUS_XUSTATE	++ XUSTATE

# \$XMAS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
752	(2F0)	SIGNED	4	XMAMFLUS_XGROUPTOKEN	++ XGROUPTOKEN
756	(2F4)	BITSTRING	1	XMAMFLUS_XUPDTYPE	++ INPUT
		1... ..		XMAMFLUS_XUPDTYPE_REPLACE	"B'10000000" ++ XUPDTYPE.REPLACE KEYWORD
		.1.. ..		XMAMFLUS_XUPDTYPE_AND	"B'01000000" ++ XUPDTYPE.AND KEYWORD
		..1. ....		XMAMFLUS_XUPDTYPE_OR	"B'00100000" ++ XUPDTYPE.OR KEYWORD
756	(2F4)	X'2D'	0	XMAMFLUSL	**XMAMFLUS" ++ LENGTH OF PLIST
Comment					
IXZXIXUS-1					
End of Comment					
760	(2F8)	SIGNED	4		Reserved for IBM use
768	(300)	DBL WORD	8	(0)	Double word alignment
Comment					
IXZXIXIF MF=(L, XMAMFLIF) IXZXIXIF list area					
MACDATE -11/12/03-<2>					
End of Comment					
0	(0)	X'300'	0	M00M1413	"XMAMFLIF" ++ IXZXIXIF NAME
768	(300)	DBL WORD	8	XMAMFLIF (0)	++ IXZXIXIF PARM LIST
768	(300)	BITSTRING	1	XMAMFLIF_XVERSION	++ INPUT XVERSION
769	(301)	CHARACTER	6	XMAMFLIF_XEYECATCH	++ CONSTANT XEYECATCH
775	(307)	CHARACTER	1	XMAMFLIF_XRSV0001	++ RESERVED XRSV0001
776	(308)	SIGNED	4	XMAMFLIF_XGROUPTOKEN	++ XGROUPTOKEN
780	(30C)	CHARACTER	16	XMAMFLIF_XREQMBOX	++ XREQMBOX
796	(31C)	CHARACTER	8	XMAMFLIF_XREQTOKEN	++ XREQTOKEN
804	(324)	ADDRESS	4	XMAMFLIF_XANSAREA	++ XANSAREA
808	(328)	SIGNED	4	XMAMFLIF_XANSLEN	++ XANSLEN
812	(32C)	BITSTRING	1	XMAMFLIF_XINFOLVL	++ INPUT
		1... ..		XMAMFLIF_XINFOLVL_GROUP	"B'10000000" ++ XINFOLVL.GROUP KEYWORD
		.1.. ..		XMAMFLIF_XINFOLVL_MEMBER	"B'01000000" ++ XINFOLVL.MEMBER KEYWORD
813	(32D)	BITSTRING	1	XMAMFLIF_XKEYS	++ FIELD_LABEL
		1... ..		XMAMFLIF_KEYUSED_REQMBOX	"B'10000000" ++ KEYUSED.REQMBOX KEYWORD
		.1.. ..		XMAMFLIF_KEYUSED_ANSAREA	"B'01000000" ++ KEYUSED.ANSAREA KEYWORD
		..1. ....		XMAMFLIF_KEYUSED_GROUPTOKEN	"B'00100000" ++ KEYUSED.GROUPTOKEN KEYWORD
		...1 ....		XMAMFLIF_KEYUSED_GROUPNAME	"B'00010000" ++ KEYUSED.GROUPNAME KEYWORD
814	(32E)	BITSTRING	1	XMAMFLIF_XSTATE	++ INPUT
		1... ..		XMAMFLIF_XSTATE_ANY	"B'10000000" ++ XSTATE.ANY KEYWORD

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.1.. ....		XMAMFLIF_XSTATE_ACTIVE	"B'01000000" ++ XSTATE.ACTIVE KEYWORD
815	(32F)	BITSTRING	1	XMAMFLIF_XSYSTEM	++ INPUT
		1... ....		XMAMFLIF_XSYSTEM_ANY	"B'10000000" ++ XSYSTEM.ANY KEYWORD
		.1.. ....		XMAMFLIF_XSYSTEM_CURRENT	"B'01000000" ++ XSYSTEM.CURRENT KEYWORD
816	(330)	BITSTRING	1	XMAMFLIF_XPOLYJES	++ INPUT
		1... ....		XMAMFLIF_XPOLYJES_YES	"B'10000000" ++ XPOLYJES.YES KEYWORD
		.1.. ....		XMAMFLIF_XPOLYJES_NO	"B'01000000" ++ XPOLYJES.NO KEYWORD
817	(331)	BITSTRING	2	XMAMFLIF_XFUNCTION	++ INPUT
817	(331)	BITSTRING	0	XMAMFLIF_XFUNCTION_ARM	"B'100000000000000000" ++ XFUNCTION.ARM KEYWORD
819	(333)	CHARACTER	8	XMAMFLIF_XGROUPNAME	++ XGROUPNAME
819	(333)	X'3B'	0	XMAMFLIFL	"*-XMAMFLIF" ++ LENGTH OF PLIST
Comment					
IXZXIXIF-2					
End of Comment					
828	(33C)	SIGNED	4		Reserved for IBM use
832	(340)	DBL WORD	8	(0)	Double word alignment
Comment					
IXZXIXAC MF=(L, XMAMFLAC) IXZXIXAC list area MACDATE -11/12/03-<1>					
End of Comment					
0	(0)	X'340'	0	M00M1414	"XMAMFLAC" ++ IXZXIXAC NAME
832	(340)	DBL WORD	8	XMAMFLAC (0)	++ IXZXIXAC PARM LIST
832	(340)	BITSTRING	1	XMAMFLAC_XVERSION	++ INPUT XVERSION
833	(341)	CHARACTER	6	XMAMFLAC_XEYECATCH	++ CONSTANT XEYECATCH
839	(347)	BITSTRING	1	XMAMFLAC_XSTB	++ INPUT
		1... ....		XMAMFLAC_XSTB_NO	"B'10000000" ++ XSTB.NO KEYWORD
		.1.. ....		XMAMFLAC_XSTB_YES	"B'01000000" ++ XSTB.YES KEYWORD
840	(348)	BITSTRING	8	XMAMFLAC_XMSGTOKEN	++ XMSGTOKEN
848	(350)	ADDRESS	4	XMAMFLAC_XDATA	++ XDATA
852	(354)	SIGNED	4	XMAMFLAC_XDATALEN	++ XDATALEN
856	(358)	SIGNED	4	XMAMFLAC_XUSERRC	++ XUSERRC
860	(35C)	SIGNED	4	XMAMFLAC_XGROUPTOKEN	++ XGROUPTOKEN
864	(360)	SIGNED	4	XMAMFLAC_XSYSRC	++ XSYSRC
868	(364)	SIGNED	4	XMAMFLAC_XSYSRSN	++ XSYSRSN
872	(368)	BITSTRING	1	XMAMFLAC_XKEYS	++ FIELD_LABEL

# \$XMAS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1... ....		XMAMFLAC_KEYUSED_DATA	"B'10000000" ++ KEYUSED.DATA KEYWORD
		.1.. ....		XMAMFLAC_KEYUSED_DATALEN	"B'01000000" ++ KEYUSED.DATALEN KEYWORD
		..1. ....		XMAMFLAC_KEYUSED_USERRC	"B'00100000" ++ KEYUSED.USERRC KEYWORD
		...1 ....		XMAMFLAC_KEYUSED_SYSRC	"B'00010000" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		XMAMFLAC_KEYUSED_SYSRSN	"B'00001000" ++ KEYUSED.SYSRSN KEYWORD
873	(369)	BITSTRING	1	XMAMFLAC_XMSGATTR	++ INPUT
		1... ....		XMAMFLAC_XMSGATTR_J3CONNECT	"B'10000000" ++ XMSGATTR.J3CONNECT KEYWORD
		.1.. ....		XMAMFLAC_XMSGATTR_EXPRESS	"B'01000000" ++ XMSGATTR.EXPRESS KEYWORD
873	(369)	X'2A'	0	XMAMFLACL	**XMAMFLAC" ++ LENGTH OF PLIST
Comment					
IXZXIXAC-1					
End of Comment					
880	(370)	DBL WORD	8	(0)	Double word alignment
Comment					
IXZXIXRM MF=(L, XMAMFLRM) IXZXIXRM list area					
MACDATE -93/05/10-<1>					
End of Comment					
880	(370)	SIGNED	2	M00M1415 (0)	IXZXIXRM-1
880	(370)	DBL WORD	8	XMAMFLRM (0)	++ IXZXIXRM PARM LIST
880	(370)	BITSTRING	1	XMAMFLRM_XVERSION	++ INPUT XVERSION
881	(371)	CHARACTER	6	XMAMFLRM_XEYECATCH	++ CONSTANT XEYECATCH
887	(377)	CHARACTER	1	XMAMFLRM_XRSV0001	++ RESERVED XRSV0001
888	(378)	CHARACTER	16	XMAMFLRM_XMBOXNAME	++ XMBOXNAME
904	(388)	ADDRESS	4	XMAMFLRM_XDATA	++ XDATA
908	(38C)	SIGNED	4	XMAMFLRM_XDATALEN	++ XDATALEN
912	(390)	BITSTRING	8	XMAMFLRM_XMSGTOKEN	++ XMSGTOKEN
920	(398)	SIGNED	4	XMAMFLRM_XGROUPTOKEN	++ XGROUPTOKEN
924	(39C)	BITSTRING	1	XMAMFLRM_XMSGFETCH	++ INPUT
		1... ....		XMAMFLRM_XMSGFETCH_ALL	"B'10000000" ++ XMSGFETCH.ALL KEYWORD
		.1.. ....		XMAMFLRM_XMSGFETCH_MESSAGES	"B'01000000" ++ XMSGFETCH.MESSAGES KEYWORD
		..1. ....		XMAMFLRM_XMSGFETCH_SYSEVENT	"B'00100000" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1 ....		XMAMFLRM_XMSGFETCH_ACKS	"B'00010000" ++ XMSGFETCH.ACKS KEYWORD
925	(39D)	BITSTRING	1	XMAMFLRM_XKEYS	++ FIELD_LABEL
		1... ....		XMAMFLRM_KEYUSED_MSGFETCH	"B'10000000" ++ KEYUSED.MSGFETCH KEYWORD
925	(39D)	X'2E'	0	XMAMFLRML	**XMAMFLRM" ++ LENGTH OF PLIST

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
IXZXIXRM-1					
End of Comment					
928	(3A0)	DBL WORD	8	(0)	Double word alignment
Comment					
IXZXIXCL MF=(L,XMAMFLCL) IXZXIXCL list area MACDATE -11/12/03-<1>					
End of Comment					
0	(0)	X'3A0'	0	M00M1416	"XMAMFLCL" ++ IXZXIXCL NAME
928	(3A0)	DBL WORD	8	XMAMFLCL (0)	++ IXZXIXCL PARM LIST
928	(3A0)	BITSTRING	1	XMAMFLCL_XVERSION	++ INPUT XVERSION
929	(3A1)	CHARACTER	6	XMAMFLCL_XEYECATCH	++ CONSTANT XEYECATCH
935	(3A7)	CHARACTER	1	XMAMFLCL_XRSV0001	++ RESERVED XRSV0001
936	(3A8)	SIGNED	4	XMAMFLCL_XFAILEDYS	++ XFAILEDYS
940	(3AC)	SIGNED	4	XMAMFLCL_XGROUPTOKEN	++ XGROUPTOKEN
940	(3AC)	X'10'	0	XMAMFLCLL	**XMAMFLCL" ++ LENGTH OF PLIST
Comment					
IXZXIXCL-1					
End of Comment					
944	(3B0)	DBL WORD	8	(0)	Double word alignment
Comment					
IXZXIXMC MF=(L,XMAMFLMC) IXZXIXMC list area MACDATE -93/05/10-<1>					
End of Comment					
944	(3B0)	SIGNED	2	M00M1417 (0)	IXZXIXMC-1
944	(3B0)	DBL WORD	8	XMAMFLMC (0)	++ IXZXIXMC PARM LIST
944	(3B0)	BITSTRING	1	XMAMFLMC_XVERSION	++ INPUT XVERSION
945	(3B1)	CHARACTER	6	XMAMFLMC_XEYECATCH	++ CONSTANT XEYECATCH
951	(3B7)	BITSTRING	1	XMAMFLMC_XSTB	++ INPUT
		1... ....		XMAMFLMC_XSTB_NO	"B'10000000" ++ XSTB.NO KEYWORD
		.1... ....		XMAMFLMC_XSTB_YES	"B'01000000" ++ XSTB.YES KEYWORD
952	(3B8)	CHARACTER	16	XMAMFLMC_XMBOXNAME	++ XMBOXNAME
968	(3C8)	SIGNED	4	XMAMFLMC_XGROUPTOKEN	++ XGROUPTOKEN
968	(3C8)	X'1C'	0	XMAMFLMCL	**XMAMFLMC" ++ LENGTH OF PLIST

## \$XMAS Map

### Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
IXZXIXMC-1					
End of fields used within MVS macros.					
End of Comment					
976	(3D0)	DBL WORD	8	(0)	Ensure double word aligned
976	(3D0)	X'3D0'	0	XMALEN	"*-XMA" Size of XMAS DSECT

### Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	XMAQENT	Define queue status entry
0	(0)	CHARACTER	4	XMAQSID	SID name
4	(4)	CHARACTER	4		Really Reserved for IBM use

Comment

-----  
 The following fields are used to communicate \$ESYS requests to HASPWARM.  
 -----

End of Comment

8	(8)	BITSTRING	8	XMAQETIM	Time of event (STCK format)
16	(10)	CHARACTER	8	XMAQESYS	MVS System name.
24	(18)	BITSTRING	4	XMAQESYT	System id / token for MVS
28	(1C)	BITSTRING	1	XMAQEFL1	Member action request
		.... ..1		XMAQE1JR	"B'00000001" Job restart required-\$ESYS
		.... ..1.		XMAQE1AE	"B'00000010" AUTOESYS=ON on MASDEF
		.... .1..		XMAQE1VR	"B'00000100" Verify ARM registrations
		.... 1...		XMAQE1XG	"B'00001000" Use XCFGRPNM in SYSJ2\$XD
29	(1D)	BITSTRING	1		Reserved for future use
30	(1E)	SIGNED	2	XMAQSIZE	Length of XMAQENT

Comment

-----  
 The remaining fields contain member status information.  
 -----

End of Comment

32	(20)	DBL WORD	8	XMAQUTIM	Event time causing latest status update (STCK)
40	(28)	DBL WORD	8	XMAQITIM	TOD of last CKPT access for this member
48	(30)	BITSTRING	1	XMAQMEMB	Member number

Comment

-----  
 XMAQSTAT is the current member status based on QSE and XCF status fields. XMAQSTAT is never set to MEMDORM. MEMDORM must be determined by the user based on the current TOD clock, XMAQITIM and \$SYNCTOL. A member is MEMDORM if XMAQSTAT indicates MEMACTIV, but XMAQITIM is more than \$SYNCTOL seconds ago.  
 Update XCFDSTAT (in HASPXCF) if XMAQSTAT definition changes.  
 -----

End of Comment

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
49	(31)	BITSTRING 1... .... .1.. .... ..1. .... ...1 .... 1111 .... .... ...1 .... ..1.	1	XMAQSTAT MEMDOWN MEMDEF MEMINU MEMFAIL MEMFILTR MEMUNDEF MEMUPEND	Current state of member "B'10000000" DOWN filter "B'01000000" DEFINED filter "B'00100000" INUSE filter "B'00010000" FAILED filter "B'11110000" Filter mask "X'01" Member UNDEFINED "X'02" Member UNDEFINED-PENDING
49	(31)	X'63'	0	MEMACTIV	"MEMDEF+MEMINU+X'03" Member ACTIVE
49	(31)	X'C4'	0	MEMINACT	"MEMDEF+MEMDOWN+X'04" Member TERMINATED
49	(31)	X'65'	0	MEMINIT	"MEMDEF+MEMINU+X'05" Member INITIALIZING
49	(31)	X'66'	0	MEMTERM	"MEMDEF+MEMINU+X'06" Member TERMINATING
49	(31)	X'D7'	0	MEMJESF	"MEMDEF+MEMDOWN+MEMFAIL+X'07" Memb JES2-FAILED
49	(31)	X'D8'	0	MEMXCF	"MEMDEF+MEMDOWN+MEMFAIL+X'08" Memb JESXCF-FAILED
49	(31)	X'D9'	0	MEMMVSG	"MEMDEF+MEMDOWN+MEMFAIL+X'09" Memb MVS-GONE
49	(31)	X'6A'	0	MEMDORM	"MEMDEF+MEMINU+X'0A" Member DORMANT (Never set)
49	(31)	X'CB'	0	MEMDRAIN	"MEMDEF+MEMDOWN+X'0B" Member DRAINED
49	(31)	X'DC'	0	MEMALICE	"MEMDEF+MEMDOWN+MEMFAIL+X'0C" Member awaiting ALICE processing
50	(32)	BITSTRING	1	XMAQUFLG	Local copy of XMAUSFLG
51	(33)	BITSTRING	1	XMAQUFL1	Local copy of XMAUSFL1
52	(34)	BITSTRING	1	XMAQNEWS	Latest member state
52	(34)	X'1'	0	XMANSACT	"1" Member is active
52	(34)	X'2'	0	XMANSFLD	"2" JESXCF has terminated
52	(34)	X'3'	0	XMANSGON	"3" MVS is no longer active
52	(34)	X'4'	0	XMANSJES	"4" JES2 ABENDED
53	(35)	BITSTRING	1	XMAQCRF1	CKPT reconfiguration status (see XMAUCRF1 for bit definitions)
54	(36)	BITSTRING	1	XMAQXF1	JESXCF member status
55	(37)	BITSTRING 1... ....	1	XMAQEFL2 XMAQ2PRS	Status flag byte 2 "B'10000000" MVS Gone status in XMAQNEWS was inferred and cannot be confirmed
56	(38)	SIGNED	4	XMAQHOLD	Hold value
60	(3C)	SIGNED	4	XMAAHOLD	Actual HOLD value
64	(40)	SIGNED	4	XMAADORM	Actual dormancy value
68	(44)	BITSTRING	4	XMAQXSYS	MAS member supports cross system data rtrvl table
72	(48)	CHARACTER	4	XMAQSNAM	Subsystem name. Shadowed from QSESSNAM
76	(4C)	CHARACTER	4	XMAQVSID	MVS System SMF I. D. Shadow of QSEMVSID
80	(50)	SIGNED	1	XMAQ2PLV	JES2 Product level. Shadow of QSEJ2PLV
81	(51)	SIGNED	1	XMAQ2SLV	Service level. Shadow of QSEJ2SLV
82	(52)	CHARACTER	8	XMAQ2VRN	Shadow of QSEJ2VRN
90	(5A)	BITSTRING	1	XMAQSTYP	Type of last start Shadowed from QSESTYPE
91	(5B)	BITSTRING	1	XMAQSEST	Shadow of QSESTAT
92	(5C)	BITSTRING	1	XMAQSES2	Shadow of QSESTAT2
93	(5D)	SIGNED	1	XMAQ2VR2	JES2 version last active on this member
94	(5E)	CHARACTER	1	XMAQCOM	Command Prefix character Shadow of QSECCHAR
95	(5F)	BITSTRING	1	XMAQRSID	ID of member doing reset (Shadow of QSERSTID)
96	(60)	SIGNED	4	XMAQMIND	Minimum Dormancy (Shadow of QSEMIND)
100	(64)	SIGNED	4	XMAQMAXD	Maximum Dormancy (Shadow QSEMAXD)
104	(68)	SIGNED	4	XMAQSYNC	Current SYNC value (Shadow QSESYNC)
108	(6C)	SIGNED	4	XMAQSTIM	STCK TOD of last start
112	(70)	CHARACTER	8	XMAQXNOD	Node name when XCF member did JESXCF attach
120	(78)	SIGNED	4	XMAQSYSL	Current SYSLOG JQE index

Comment

-----  
XMAQPSEQ is the same format as ECVTPSEQ. Byte one is OS type (00 - OS/390 01-z/OS). Bytes 2-4 are VRM - VVRRMM. So for z/OS 1.13 you get 01010D00.  
-----

End of Comment

124	(7C)	SIGNED	4	XMAQPSEQ	z/OS product sequence numb.
-----	------	--------	---	----------	-----------------------------

## \$XMAS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
128	(80)	CHARACTER	16	XMAQMNAM	XCF member name for normal JESXCF group (\$XCFGPNM)
144	(90)	SIGNED	4	(4)	Reserved
144	(90)	X'A0'	0	XMAQECLR	"*-XMAQENT" Length that can be cleared
160	(A0)	ADDRESS	8	XMAQCDCQ	Pointer to CDCTQS for this member (64-bit address)
168	(A8)	ADDRESS	8	XMAQC�IT	Ptr to NIT array for this member (64-bit addr)
176	(B0)	SIGNED	4	XMAQC�IA	ALET for NIT array
180	(B4)	BITSTRING	1	XMAQC�IV	NIT data version
181	(B5)	BITSTRING	1	XMAQC�IP	Nr of paths in each NIT entry
182	(B6)	BITSTRING	2		Reserved
184	(B8)	DBL WORD	8	(0)	Insure double word aligned
184	(B8)	X'B8'	0	XMAQELEN	"*-XMAQENT" Length of XMAQENT element

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	XMAXUS	HASP XCF USER STATE FIELD
0	(0)	BITSTRING	4	XMAJXCF (0)	JESXCF user state information
0	(0)	BITSTRING	1	XMAJXFL1	JESXCF status
		1... ....		XMAATTCH	"B'10000000" JES2 is attached to JESXCF
		.1.. ....		XMAAJES2	"B'01000000" Subsystem is running JES2
		..1. ....		XMAAJES3	"B'00100000" Subsystem is running JES3
		...1 ....		XMAACON	"B'00010000" Subsystem is connected to other members
		.... 1...		XMAAFSS3	"B'00001000" JES3 FSS subsystem
		.... .1..		XMAACONS	"B'00000100" Consoles function active
1	(1)	BITSTRING	1		Release level of the JES
2	(2)	CHARACTER	2	XMASSIN1	First 2 chars of SSINAME
4	(4)	BITSTRING	8	XMACOLDT	Cold start date and time (\$COLDDTM)
12	(C)	BITSTRING	8	XMAPLXID	First system IPLed in this current IPL of the sysplex (SYSPLEXID in the IXCQUERY)
20	(14)	BITSTRING	1	XMAUSFLG	User state flag
		1... ....		XMAUINIT	"B'10000000" JES2 initializing
		.1.. ....		XMAUTERM	"B'01000000" JES2 terminating
		..1. ....		XMAUACTN	"B'00100000" JES2 NPM PCE initialized
		...1 ....		XMAUNUTS	"B'00010000" JES2 NPM PCE in HASPNUTS
		.... 1...		XMAUXCMA	"B'00001000" JES2 XCM PCE initialized
		.... .1..		XMAUCDCA	"B'00000100" JES2 CDC PCE initialized
21	(15)	BITSTRING	1	XMAUSFL1	Member options flag
		1... ....		XMA1AON	"B'10000000" AUTOESYS=ON specified
		.1.. ....		XMA1AOFF	"B'01000000" AUTOESYS=OFF specified
22	(16)	ADDRESS	1	XMAUSMID	Member number (\$SIDBUSY)
23	(17)	BITSTRING	1	XMAUCRF1	CKPT reconfiguration status
		1... ....		XMAUC1RC	"B'10000000" - Reconfiguration capable
		.1.. ....		XMAUC1ST	"B'01000000" - Reconfiguration started
		..1. ....		XMAUC1MD	"B'00100000" - This member MUST drive
		...1 ....		XMAUC1CO	"B'00010000" - Reconfig is committed (First driving member committed)
		.... 1...		XMAUC1DR	"B'00001000" - This member is driver
		.... .1..		XMAUC1DL	"B'00000100" - This member has detected a delayed XCF msg, ack, or user state update
		.... ..1.		XMAUC1CF	"B'00000010" - This member is committed to fail
		.... ...1		XMAUC1IO	"B'00000001" - CKPTn I/O error on member
23	(17)	X'3F'	0	XMAUC1SC	"XMAUC1MD+XMAUC1CO+XMAUC1DR+XMAUC1DL+XMAUC1CF+XMAUC1IO" - Flags to clear when a reconfig starts
23	(17)	X'7F'	0	XMAUC1DC	"XMAUC1SC+XMAUC1ST" - Flags to clear when a reconfig completes
24	(18)	BITSTRING	5	XMAUCRLV	Member's CKPT level number (Low-order 5 bytes)



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
The last byte of the user state are shared between JES2, JES3, and JESXCF. There offsets must not change.					
End of Comment					
29	(1D)	BITSTRING	1	XMAFEAT (0)	Functions that this JES supports
29	(1D)	BITSTRING	1	XMAFEAT1	Feature byte 1
		1... ....		XMAARM	"B'10000000" This JES supports ARM
30	(1E)	BITSTRING	2	XMAJXC2 (0)	JESXCF user state information
30	(1E)	CHARACTER	2	XMASSIN2	Last 2 chars of SSINAME
30	(1E)	X'20'	0	XMAUSED	**XMAXUS" Amount of user state in use
32	(20)	ADDRESS	2	(0)	Ensure length
32	(20)	ADDRESS	2	(0)	is 32 bytes
32	(20)	X'20'	0	XMAUSLEN	**XMAXUS" LENGTH OF XUS USER STATE

**\$XMAS Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MEMACTIV	31	63	XMADIAG	16C	
MEMALICE	31	DC	XMAFEAT	1D	
MEMDEF	31	40	XMAFEAT1	1D	
MEMDORM	31	6A	XMAFLAG1	38	
MEMDOWN	31	80	XMAFLAG2	39	
MEMDRAIN	31	CB	XMAFLAG3	3B	
MEMFAIL	31	10	XMAFLAG4	3C	
MEMFILTR	31	F0	XMAFLAG5	3D	
MEMINACT	31	C4	XMAFLAG6	3E	
MEMINIT	31	65	XMAID	0	
MEMINU	31	20	XMAIFAA	214	
MEMJESF	31	D7	XMAIFALN	210	
MEMMVSG	31	D9	XMAJNNM	170	
MEMTERM	31	66	XMAJXCF	0	
MEMUNDEF	31	1	XMAJXC2	1E	
MEMUPEND	31	2	XMAJXFL1	0	
MEMXCFF	31	D8	XMALEN	3D0	3D0
M00M1407	0	218	XMAMADDR	84	
M00M1409	0	240	XMAMEMAT	A4	
M00M1410	0	280	XMAMEMDT	8	
M00M1411	298		XMAMEMNM	18	
M00M1412	2C8		XMAMEMST	1F0	
M00M1413	0	300	XMAMEMUP	A0	
M00M1414	0	340	XMAMFLAC	340	
M00M1415	370		XMAMFLAC_KEYUSED_DATA		
M00M1416	0	3A0		368	80
M00M1417	3B0		XMAMFLAC_KEYUSED_DATALEN		
XMA	0			368	40
XMAACON	0	10	XMAMFLAC_KEYUSED_SYSRC		
XMAACONS	0	4		368	10
XMAADORM	40		XMAMFLAC_KEYUSED_SYSRSN		
XMAAFSS3	0	8		368	8
XMAAHOLD	3C		XMAMFLAC_KEYUSED_USERRC		
XMAAJES2	0	40		368	20
XMAAJES3	0	20	XMAMFLAC_XDATA		
XMAARM	1D	80		350	
XMAATTCH	0	80	XMAMFLAC_XDATALEN		
XMAAXRQ	B0			354	
XMABLDM	178	C2D3C440	XMAMFLAC_XEYECATCH		
XMABLDML	0	58		341	
XMACDCUP	AC		XMAMFLAC_XGROUPTOKEN		
XMACOLDT	4			35C	

## \$XMAS Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
XMAMFLAC_XKEYS				270	2
	368		XMAMFLAT_XWHICHJES_J3CIFSS		
XMAMFLAC_XMSGATTR				270	4
	369		XMAMFLAT_XWHICHJES_J3FSS		
XMAMFLAC_XMSGATTR_EXPRESS				270	20
	369	40	XMAMFLATL		40
XMAMFLAC_XMSGATTR_J3CONNECT			XMAMFLCL		3A0
	369	80	XMAMFLCL_XEYECATCH		
XMAMFLAC_XMSGTOKEN				3A1	
	348		XMAMFLCL_XFAILEDYS		
XMAMFLAC_XSTB				3A8	
	347		XMAMFLCL_XGROUPTOKEN		
XMAMFLAC_XSTB_NO				3AC	
	347	80	XMAMFLCL_XRSV0001		
XMAMFLAC_XSTB_YES				3A7	
	347	40	XMAMFLCL_XVERSION		
XMAMFLAC_XSYSRC				3A0	
	360		XMAMFLCLL		10
XMAMFLAC_XSYSRSN			XMAMFLDT		280
	364		XMAMFLDT_XEYECATCH		
XMAMFLAC_XUSERRC				281	
	358		XMAMFLDT_XGROUPTOKEN		
XMAMFLAC_XVERSION				288	
	340		XMAMFLDT_XLINKPARMS		
XMAMFLACL		2A		28C	
XMAMFLAT			XMAMFLDT_XRSV0001		
XMAMFLAT_XDIAG				287	
	274		XMAMFLDT_XVERSION		
XMAMFLAT_XEYECATCH				280	
	241		XMAMFLDTL		14
XMAMFLAT_XFLAG1			XMAMFLIF		300
	270		XMAMFLIF_KEYUSED_ANSAREA		
XMAMFLAT_XFLAG2				32D	40
	271		XMAMFLIF_KEYUSED_GROUPNAME		
XMAMFLAT_XGROUP				32D	10
	248		XMAMFLIF_KEYUSED_GROUPTOKEN		
XMAMFLAT_XGROUPTOKEN				32D	20
	26C		XMAMFLIF_KEYUSED_REQMBOX		
XMAMFLAT_XJ3CONNECT_NO				32D	80
	271	80	XMAMFLIF_XANSAREA		
XMAMFLAT_XJ3CONNECT_YES				324	
	271	40	XMAMFLIF_XANSLN		
XMAMFLAT_XLINKPARMS				328	
	278		XMAMFLIF_XEYECATCH		
XMAMFLAT_XMAINTLVL				301	
	268		XMAMFLIF_XFUNCTION		
XMAMFLAT_XMEMBER				331	
	250		XMAMFLIF_XFUNCTION_ARM		
XMAMFLAT_XRELEASE				331	8000
	260		XMAMFLIF_XGROUPNAME		
XMAMFLAT_XRSV0001				333	
	247		XMAMFLIF_XGROUPTOKEN		
XMAMFLAT_XRSV0002				308	
	272		XMAMFLIF_XINFOLVL		
XMAMFLAT_XVERSION				32C	
	240		XMAMFLIF_XINFOLVL_GROUP		
XMAMFLAT_XWHICHJES_COMMON				32C	80
	270	8	XMAMFLIF_XINFOLVL_MEMBER		
XMAMFLAT_XWHICHJES_INIT				32C	40
	270	10	XMAMFLIF_XKEYS		
XMAMFLAT_XWHICHJES_JES2				32D	
	270	80	XMAMFLIF_XPOLYJES		
XMAMFLAT_XWHICHJES_JES3				330	
	270	40	XMAMFLIF_XPOLYJES_NO		
XMAMFLAT_XWHICHJES_J2SPOOL				330	40

Name	Hex Offset	Hex Value
XMAMFLIF_XPOLYJES_YES	330	80
XMAMFLIF_XREQMBOX	30C	
XMAMFLIF_XREQTOKEN	31C	
XMAMFLIF_XRSV0001	307	
XMAMFLIF_XSTATE	32E	
XMAMFLIF_XSTATE_ACTIVE	32E	40
XMAMFLIF_XSTATE_ANY	32E	80
XMAMFLIF_XSYSTEM	32F	
XMAMFLIF_XSYSTEM_ANY	32F	80
XMAMFLIF_XSYSTEM_CURRENT	32F	40
XMAMFLIF_XVERSION	300	
XMAMFLIFL	333	3B
XMAMFLMB	298	
XMAMFLMB_XEYECATCH	299	
XMAMFLMB_XGROUPTOKEN	2BC	
XMAMFLMB_XMBOXNAME	2A0	
XMAMFLMB_XPOSTALET	2B8	
XMAMFLMB_XPOSTDATA	2B4	
XMAMFLMB_XPOSTXIT	2B0	
XMAMFLMB_XRSV0001	29F	
XMAMFLMB_XSYSEVENT_NO	2C0	40
XMAMFLMB_XSYSEVENT_YES	2C0	80
XMAMFLMB_XSYSEVENTS	2C0	
XMAMFLMB_XVERSION	298	
XMAMFLMBL	2C0	29
XMAMFLMC	3B0	
XMAMFLMC_XEYECATCH	3B1	
XMAMFLMC_XGROUPTOKEN	3C8	
XMAMFLMC_XMBOXNAME	3B8	
XMAMFLMC_XSTB	3B7	
XMAMFLMC_XSTB_NO	3B7	80
XMAMFLMC_XSTB_YES	3B7	40
XMAMFLMC_XVERSION	3B0	
XMAMFLMCL	3C8	1C
XMAMFLQR	218	
XMAMFLQR_PL_END		

Name	Hex Offset	Hex Value
	230	240
XMAMFLQR_XANSAREA_ADDR	21C	
XMAMFLQR_XANSAREA_ALET	220	
XMAMFLQR_XANSLEN	224	
XMAMFLQR_XGRPNAME	228	
XMAMFLQR_XMEMNAME	230	
XMAMFLQR_XQUAALEVEL	21B	
XMAMFLQR_XREQINFO	21A	
XMAMFLQR_XREQINFO_ARMS_ALLDATA	21A	1
XMAMFLQR_XREQINFO_ARMSTATUS	21A	2
XMAMFLQR_XREQINFO_CF	21A	20
XMAMFLQR_XREQINFO_CF_ALLDATA	21A	8
XMAMFLQR_XREQINFO_GROUP	21A	80
XMAMFLQR_XREQINFO_STR	21A	10
XMAMFLQR_XREQINFO_STR_ALLDATA	21A	4
XMAMFLQR_XREQINFO_SYSPLEX	21A	40
XMAMFLQR_XREQTYPE	219	
XMAMFLQR_XREQTYPE_DEFER	219	5
XMAMFLQR_XREQTYPE_IMMEDIATE	219	10
XMAMFLQR_XVERSION	218	
XMAMFLQRL	230	28
XMAMFLRM	370	
XMAMFLRM_KEYUSED_MSGFETCH	39D	80
XMAMFLRM_XDATA	388	
XMAMFLRM_XDATALEN	38C	
XMAMFLRM_XEYECATCH	371	
XMAMFLRM_XGROUPTOKEN	398	
XMAMFLRM_XKEYS	39D	
XMAMFLRM_XMBOXNAME	378	
XMAMFLRM_XMSGFETCH	39C	
XMAMFLRM_XMSGFETCH_ACKS	39C	10
XMAMFLRM_XMSGFETCH_ALL	39C	80
XMAMFLRM_XMSGFETCH_MESSAGES	39C	40
XMAMFLRM_XMSGFETCH_SYSEVENT	39C	20

## \$XMAS Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
XMAMFLRM_XMSGTOKEN	390		XMAQJXF1	36	
XMAMFLRM_XRSV0001	377		XMAQMAXD	64	
XMAMFLRM_XVERSION	370		XMAQMEMB	30	
XMAMFLRML	39D	2E	XMAQMIND	60	
XMAMFLUS	2C8		XMAQMNAM	80	
XMAMFLUS_XEYECATCH	2C9		XMAQNEWS	34	
XMAMFLUS_XGROUPTOKEN	2F0		XMAQPSEQ	7C	
XMAMFLUS_XRSV0001	2CF		XMAQRSID	5F	
XMAMFLUS_XUPDTYPE	2F4		XMAQSEST	5B	
XMAMFLUS_XUPDTYPE_AND	2F4	40	XMAQSES2	5C	
XMAMFLUS_XUPDTYPE_OR	2F4	20	XMAQSID	0	
XMAMFLUS_XUPDTYPE_REPLACE	2F4	80	XMAQSIZE	1E	
XMAMFLUS_XUSTATE	2D0		XMAQSNAM	48	
XMAMFLUS_XVERSION	2C8		XMAQSTAT	31	
XMAMFLUSL	2F4	2D	XMAQSTIM	6C	
XMAMLEN	88		XMAQSTYP	5A	
XMAMLOCL	3A	1	XMAQSYNC	68	
XMAMODE	3A		XMAQSYSL	78	
XMAMTOKE	8C		XMAQUFLG	32	
XMAMTKN	98		XMAQUFL1	33	
XMANPMUP	A8		XMAQUTIM	20	
XMANSACT	34	1	XMAQVSID	4C	
XMANSFLD	34	2	XMAQXNOD	70	
XMANSRON	34	3	XMAQXSYS	44	
XMANSJES	34	4	XMAQ2PLV	50	
XMAOOTHMN	1F8		XMAQ2PRS	37	80
XMAOXMAS	1F4		XMAQ2SLV	51	
XMAPLIWK	208		XMAQ2VRN	52	
XMAPLXID	C		XMAQ2VR2	5D	
XMAPLXNM	70		XMARSN	2C	
XMAPTIME	78		XMARTN	28	
XMAQCDCQ	A0		XMASERV	30	
XMAQCNIA	B0		XMASIDNM	80	
XMAQCNIP	B5		XMASNUM	64	
XMAQCNIT	A8		XMASSIN1	2	
XMAQCNIV	B4		XMASSIN2	1E	
XMAQCOM	5E	5B	XMASYSNM	68	
XMAQCRF1	35		XMASYTOK	64	
XMAQDATA	B4		XMAUACTN	14	20
XMAQECLR	90	A0	XMAUCDCA	14	4
XMAQEFL1	1C		XMAUCRF1	17	
XMAQEFL2	37		XMAUCRLV	18	
XMAQELN	B8	B8	XMAUC1CF	17	2
XMAQENT	0		XMAUC1CO	17	10
XMAQESYS	10		XMAUC1DC	17	7F
XMAQESYT	18		XMAUC1DL	17	4
XMAQETIM	8		XMAUC1DR	17	8
XMAQE1AE	1C	2	XMAUC1IO	17	1
XMAQE1JR	1C	1	XMAUC1MD	17	20
XMAQE1VR	1C	4	XMAUC1RC	17	80
XMAQE1XG	1C	8	XMAUC1SC	17	3F
XMAQHOLD	38		XMAUC1ST	17	40
XMAQITIM	28		XMAUINIT	14	80
			XMAUNUTS	14	10
			XMAUSED	1E	20
			XMAUSFLG	14	
			XMAUSFL1	15	
			XMAUSLEN	20	20
			XMAUSMID	16	
			XMAUTERM	14	40
			XMAUXCMA	14	8
			XMAVNUM	4	2
			XMAVRALN	5C	60
			XMAVRSN	4	
			XMAXECB	40	

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
XMAXUS	0	
XMAXUSST	1D0	
XMA1AOFF	15	40
XMA1AON	15	80
XMA1AXMA	38	10
XMA1INIT	38	40
XMA1JOIN	38	80
XMA2CDEL	39	40
XMA2FRR	39	80
XMA3INIT	3B	80
XMA3JOIN	3B	8
XMA3LEAV	3B	2
XMA3MEMS	3B	20
XMA3QUER	3B	1
XMA3SYSG	3B	40
XMA3USRS	3B	10
XMA3USTA	3B	4
XMA4DELT	3C	10
XMA4DQ	3C	80
XMA4MAPE	3C	40
XMA4MEMN	3C	4
XMA4MQER	3C	8
XMA4PURG	3C	20
XMA4XMQU	3C	2
XMA5ESYS	3D	80
XMA6XMAS	3E	80

## \$XMAS Cross Reference

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## \$XPL Information

### \$XPL Programming Interface information

Programming Interface information

\$XPL

End of Programming Interface information

## Heading Information • \$XPL Map

### \$XPL Heading Information

**Common Name:** Exit parameter list  
**Macro ID:** \$XPL  
**DSECT Name:** XPL  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** '\$XPL'  
 Offset: XPLID-XPL  
 Length: 4

**Storage Attributes:** Subpool: 1 for exits called from the JES2 main task environment. 230 for exits called from the USER environment. Refer to "JES2 Customization" to determine the environment for specific exits.  
 Key: 1  
 Residency: Virtual and real storage are anywhere in the private storage of the JES2 address space for exits called from the JES2 main task environment. For exits called from the USER environment, virtual and real storage are anywhere in the private storage of the requesting address space. Refer to "JES2 Customization" to determine the environment for specific exits.

**Size:** See XyyySIZE where yyy is the exit number.  
**Created by:** The XPL is created before the exit is invoked.  
**Pointed to by:** The XPL is generally pointed to by register 1 on entry to an exit routine.  
 Refer to "JES2 Customization" for exceptions.

**Serialization:** None required.  
**Function:** This DSECT provides the mapping for all new and changed exit parameter lists.

### \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	XPL	
0	(0)	CHARACTER	4	XPLID	Eye catcher
4	(4)	ADDRESS	1	XPLLEVEL	Version number for base section
		.... ...1		XPLVERN	"X'1" Verision number equate for base
5	(5)	ADDRESS	1	XPLXITID	Exit id number
6	(6)	ADDRESS	1	XPLEXLEV	Version number for specific exit (XnnnVERN is the equate)

Comment

01 NOTES: Do not use the XPLIND, XPLCOND, or XPLRESP fields. Refer to them as XnnnIND, XnnnCOND, or XnnnRESP.

End of Comment

7	(7)	BITSTRING	1	XPLIND	Indicator byte
8	(8)	BITSTRING	1	XPLCOND	Condition byte
		1... ....		XPLCOB0	"B'10000000" Bit definitions for
		.1.. ....		XPLCOB1	"B'01000000" the condition byte. Each
		..1. ....		XPLCOB2	"B'00100000" specific exit should
		...1 ....		XPLCOB3	"B'00010000" define their own meaning
		.... 1...		XPLCOB4	"B'00001000" to these bits and EQUATE
		.... .1..		XPLCOB5	"B'00000100" them back to these
		.... ..1.		XPLCOB6	"B'00000010" bits.
		.... ...1		XPLCOB7	"B'00000001"
9	(9)	BITSTRING	1	XPLRESP	Response byte (Modifiable by Exit routine)
		1... ....		XPLREB0	"B'10000000" Bit definitions for
		.1.. ....		XPLREB1	"B'01000000" the response byte. Each
		..1. ....		XPLREB2	"B'00100000" specific exit should
		...1 ....		XPLREB3	"B'00010000" define their own meaning



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... 1...		XPLREB4	"B'00001000" to these bits and EQUATE
		.... .1..		XPLREB5	"B'00000100" them back to these
		.... ..1.		XPLREB6	"B'00000010" bits.
		.... ...1		XPLREB7	"B'00000001"
10	(A)	SIGNED	2	XPLSIZE	Size of parameter list including the base section
12	(C)	SIGNED	4		Reserved
12	(C)	X'10'	0	XPLBLEN	** -XPL" Length of Base exit parameter list
16	(10)	SIGNED	4	XPLPLUS (0)	Start of parm list contents to the exit
Comment					
Exit 1 XPL values Print/punch separators					
End of Comment					
16	(10)	X'1'	0	X001XID	"1" Exit 1 ID
		.... ...1		X001VERN	"X'01" Exit 1 XPL version number
Comment					
Indicator byte equates					
End of Comment					
16	(10)	X'7'	0	X001IND	"XPLIND" Indicator byte
		1... ....		X001JHDR	"X'80" Job header call
		.1... ....		X001JTLR	"X'40" Job trailer call
		..1. ....		X001JCNT	"X'20" Job continuation call
Comment					
Condition byte equates					
End of Comment					
16	(10)	X'8'	0	X001COND	"XPLCOND" Condition byte
Comment					
Response byte equates					
End of Comment					
16	(10)	X'9'	0	X001RESP	"XPLRESP" Response byte
16	(10)	X'80'	0	X001DFSP	"XPLREB0" Response bit to surpress the default separator
16	(10)	X'40'	0	X001JNWS	"XPLREB1" Response bit to surpress JESNEWS
16	(10)	X'10'	0	X001PLUS	"XPLPLUS" Exit 1 parameter list
16	(10)	ADDRESS	4	X001DCT	Address of the DCT
20	(14)	ADDRESS	4	X001JCT	Address of the JCT
24	(18)	ADDRESS	4	X001DSCT	Address of DSCT or zeroes
28	(1C)	ADDRESS	4	X001JQE	Address of the JQE
32	(20)	ADDRESS	4	X001JOA	Address of the JOA
36	(24)	SIGNED	4		Reserved for future use
40	(28)	ADDRESS	4	X001PDDB	Address of the first PDDB in the JOE for header call, zero for trailer call
44	(2C)	ADDRESS	4	X001SWBT	Address of the SWBTU pointer list for 1st data set for the current JOE or zero
48	(30)	SIGNED	2	X001NSWB	Number of SWBITs despooled
50	(32)	SIGNED	2	X001RSVD	Reserved for future use
52	(34)	ADDRESS	4	X001HBUF	Address of a HASP buffer for exit use
52	(34)	X'38'	0	X001SIZE	** -XPL" Size of XPL for Exit 1
52	(34)	X'20'	0	X001WJOE	"X001JOA" Equate for work JOE.

# \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Exit 2 XPL values JOB JCL statement scan (JES2 main task) The mapping of fields at the start of exits 2, 4, 52 and 54 are the same. Indicator values may vary based on the exit. The mappings of exits 2 and 52 are identical.					
End of Comment					
52	(34)	X'2' .... ..1.	0	X002XID X002VERN	"2" Exit 2 ID "X'02" Exit 2 XPL version number
Comment					
Indicator byte equates					
End of Comment					
52	(34)	X'7' .... 1...	0	X002IND X002JOB	"XPLIND" Indicator byte "X'08" I.JOB card detected
Comment					
Condition byte equates					
End of Comment					
52	(34)	X'8'	0	X002COND	"XPLCOND" Condition byte
52	(34)	X'80'	0	X002CONT	"XPLCOB0" I.Card is a continuation
52	(34)	X'10'	0	X002SEC	"XPLCOB3" I.Not first time exit has been passed card
Comment					
Response byte equates					
End of Comment					
52	(34)	X'9'	0	X002RESP	"XPLRESP" Response byte
52	(34)	X'80'	0	X002XSNC	"XPLREB0" O.Exit supplied next card
52	(34)	X'40'	0	X002XSEM	"XPLREB1" O.Exit supplied error msg
52	(34)	X'20'	0	X002JCMT	"XPLREB2" O.Skip processing card
52	(34)	X'10'	0	X002KILL	"XPLREB3" O.Kill current job
52	(34)	X'8'	0	X002PURG	"XPLREB4" O.Purge current job
52	(34)	X'4'	0	X002RLOC	"XPLREB5" O.Changed/added cards are not to be sent via NJE (set RJC3LOC in current RJC)
52	(34)	X'10'	0	X002PLUS	"XPLPLUS" Exit 2 parameter list
16	(10)	ADDRESS	4	X002CARD	I.Address card image
20	(14)	ADDRESS	4	X002FLGX	I.For compatibility, ptr to FLAGX. Exits should use X002IND, X002COND and X002RESP instead.
24	(18)	ADDRESS	4	X002JXWR	I.Pointer to JCTXWRK
28	(1C)	ADDRESS	4	X002JCT	I.Address of JCT
32	(20)	ADDRESS	4	X002JQE	I.Address of JQE
36	(24)	ADDRESS	4	X002AREA	I.Address of JRW
40	(28)	ADDRESS	4	X002STMT	I.Pointer to stmt buffer
44	(2C)	ADDRESS	4	X002STME	IO.Addr 1 byte past end of statement buffer
48	(30)	CHARACTER	8	X002STML	I.Label on statement (JCL)
56	(38)	CHARACTER	8	X002STMV	I.Statement verb
64	(40)	ADDRESS	4	X002RJCP	O.Chain of RJCBS to queue before current statement
68	(44)	ADDRESS	4	X002RJCA	O.Chain of RJCBS to queue after current statement
72	(48)	ADDRESS	4	X002RJCC	O.Chain of RJCBS to queue after current card
76	(4C)	BITSTRING	1	X002FLG1	Statement flag byte

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Following bits should be the same as RJCB bits					
End of Comment					
		.... 1...		X002LOPR	"B'00001000" I.Last operand is on card
		.... .1..		X002QUOT	"B'00000100" I.Unfinished quote at end of card
		.... ..1.		X002CCMT	"B'00000010" I.Card is a cont comment
		.... ...1		X002LAST	"B'00000001" I.Last card in statement
77	(4D)	BITSTRING	3		Reserved
Comment					
----- End of fields common to exits 2, 4, 52 and 54 -----					
End of Comment					
80	(50)	CHARACTER	8	X002OCLS	O.Override job class
88	(58)	CHARACTER	8	X002OJNM	O.Override job name
88	(58)	X'60'	0	X002SIZE	**"XPL" Size of XPL for Exit 2
Comment					
Exit 3 XPL values JOB statement accounting field scan (main task)					
End of Comment					
88	(58)	X'3'	0	X003XID	"3" Exit 3 ID
		.... ...1		X003VERN	"X'01" Exit 3 XPL version number
Comment					
Indicator byte equates					
End of Comment					
88	(58)	X'7'	0	X003IND	"XPLIND" Indicator byte
Comment					
Condition byte equates					
End of Comment					
88	(58)	X'8'	0	X003COND	"XPLCOND" Condition byte
Comment					
Response byte equates					
End of Comment					
88	(58)	X'9'	0	X003RESP	"XPLRESP" Response byte
88	(58)	X'80'	0	X003XSEM	"XPLREB0" O.Exit supplied error msg
88	(58)	X'40'	0	X003SKIP	"XPLREB1" O.Skip default accounting field scan
88	(58)	X'20'	0	X003KILL	"XPLREB2" O.Kill current job
88	(58)	X'10'	0	X003PLUS	"XPLPLUS" Exit 3 parameter list
16	(10)	ADDRESS	4	X003ACCT	I.Addr of accounting field
20	(14)	ADDRESS	4	X003FLGX	I.For compatibility, ptr to FLAGX. Exits should use X003IND, X003COND and X003RESP instead.
24	(18)	ADDRESS	4	X003JXWR	I.Pointer to JCTXWRK
28	(1C)	SIGNED	4	X003ACTL	I.Leng of accounting field
32	(20)	ADDRESS	4	X003JCT	I.Address of JCT
36	(24)	ADDRESS	4	X003JQE	I.Address of JQE
40	(28)	ADDRESS	4	X003AREA	I.Address of JRW

# \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
40	(28)	X'2C'	0	X003SIZE	** -XPL " Size of XPL for Exit 3
Comment					
Exit 4 XPL values JCL and JES2 control statement scan (main task) The mapping of fields at the start of exits 2, 4, 52 and 54 are the same. Indicator values may vary based on the exit. The mappings of exits 4 and 54 are identical.					
End of Comment					
40	(28)	X'4'	0	X004XID	"4" Exit 4 ID
		.... ...1		X004VERN	"X'01" Exit 4 XPL version number
Comment					
Indicator byte equates					
End of Comment					
40	(28)	X'7'	0	X004IND	"XPLIND" Indicator byte
		.... ....		X004JCL	"X'00" I.JCL card detected
		.... .1..		X004JECL	"X'04" I.JECL card detected
Comment					
Condition byte equates					
End of Comment					
40	(28)	X'8'	0	X004COND	"XPLCOND" Condition byte
40	(28)	X'80'	0	X004CONT	"XPLCOB0" I.Card is a continuation
40	(28)	X'40'	0	X004JOBP	"XPLCOB1" I. .JOBPARM card detected
40	(28)	X'20'	0	X004CMND	"XPLCOB2" I. \$ command card det
40	(28)	X'10'	0	X004SEC	"XPLCOB3" I.Not first time exit has been passed card
40	(28)	X'1'	0	X004PREJ	"XPLCOB7" I.Card encountered outside a job structure
Comment					
Response byte equates					
End of Comment					
40	(28)	X'9'	0	X004RESP	"XPLRESP" Response byte
40	(28)	X'80'	0	X004XSNC	"XPLREB0" O.Exit supplied next card
40	(28)	X'40'	0	X004XSEM	"XPLREB1" O.Exit supplied error msg
40	(28)	X'20'	0	X004JCMT	"XPLREB2" O.Skip processing card
40	(28)	X'10'	0	X004KILL	"XPLREB3" O.Kill current job
40	(28)	X'8'	0	X004PURG	"XPLREB4" O.Purge current job
40	(28)	X'4'	0	X004RLOC	"XPLREB5" O.Changed/added cards are not to be sent via NJE (set RJC3LOC in current RJC)
40	(28)	X'10'	0	X004PLUS	"XPLPLUS" Exit 4 parameter list
16	(10)	ADDRESS	4	X004CARD	I.Address card image
20	(14)	ADDRESS	4	X004FLGX	I.For compatibility, ptr to FLAGX. Exits should use X004IND, X004COND and X004RESP instead.
24	(18)	ADDRESS	4	X004JXWR	I.Pointer to JCTXWRK
28	(1C)	ADDRESS	4	X004JCT	I.Address of JCT or zero
32	(20)	ADDRESS	4	X004JQE	I.Address of JQE or zero
36	(24)	ADDRESS	4	X004AREA	I.Address of JRW
40	(28)	ADDRESS	4	X004STMT	I.Pointer to stmt buffer
44	(2C)	ADDRESS	4	X004STME	IO.Addr 1 byte past end of statement buffer
48	(30)	CHARACTER	8	X004STML	I.Label on statement (JCL)
56	(38)	CHARACTER	8	X004STMV	I.Statement verb
64	(40)	ADDRESS	4	X004RJCP	O.Chain of RJCBS to queue before current statement
68	(44)	ADDRESS	4	X004RJCA	O.Chain of RJCBS to queue after current statement
72	(48)	ADDRESS	4	X004RJCC	O.Chain of RJCBS to queue after current card

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
76	(4C)	BITSTRING	1	X004FLG1	Statement flag byte
Comment					
Following bits should be the same as RJCB bits					
End of Comment					
		.... 1...		X004LOPR	"B'00001000" I.Last operand is on card
		.... .1..		X004QUOT	"B'00000100" I.Unfinished quote at end of card
		.... ..1.		X004CCMT	"B'00000010" I.Card is a cont comment
		.... ...1		X004LAST	"B'00000001" I.Last card in statement
77	(4D)	BITSTRING	3		Reserved
Comment					
----- End of fields common to exits 2, 4, 52, and 54 -----					
End of Comment					
80	(50)	BITSTRING	8		Reserved
88	(58)	BITSTRING	8		Reserved
88	(58)	X'60'	0	X004SIZE	"*-XPL" Size of XPL for Exit 4
96	(60)	ADDRESS	2	(0)	Ensure XPL for exits 2
96	(60)	ADDRESS	2	(0)	and 4 are same size
Comment					
Exit 5 has no XPLs 5 - JES2 command preprocessor Exit 6 XPL values JES2 converter exit (subtask) Note that this maps the same as the exit 59 XPL					
End of Comment					
		.... ...1		X006VERN	"X'01" Exit 6 XPL version number
96	(60)	X'6'	0	X006XID	"6" Exit 6 id
Comment					
Indicator byte equates					
End of Comment					
96	(60)	X'7'	0	X006IND	"XPLIND" Indicator byte
96	(60)	X'0'	0	X006TEXT	"0" Internal text exit
96	(60)	X'4'	0	X006CEND	"4" End of conversion
Comment					
Condition byte equates					
End of Comment					
96	(60)	X'8'	0	X006COND	"XPLCOND" Condition byte
Comment					
Response byte equates					
End of Comment					
96	(60)	X'9'	0	X006RESP	"XPLRESP" Response byte
96	(60)	X'10'	0	X006PLUS	"XPLPLUS" Exit 06 parameter list
16	(10)	ADDRESS	4	X006WORK	16 byte work area address
20	(14)	ADDRESS	4	X006ITXT (0)	Internal text image address (X006IND = X006TEXT)
20	(14)	ADDRESS	4	X006CRET	Address of Converter RC (X006IND = X006CEND)

## \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
24	(18)	ADDRESS	4	X006CNVW	JES2 DTE work area address
28	(1C)	ADDRESS	4	X006JCT	JCT address
32	(20)	ADDRESS	4	X006CNMB	Address of message buffer
36	(24)	ADDRESS	4	X006CIW	CIWORK data area address
36	(24)	X'28'	0	X006SIZE	** -XPL" Length of Exit 06 XPL
Comment					
Exit 7 XPL values Control block I/O (JES2)					
End of Comment					
36	(24)	.... ...1 X'7'	0	X007VERN X007XID	"X'01" Exit 07 XPL version number "7" Exit 07 id
Comment					
Indicator byte equates					
End of Comment					
36	(24)	X'7'	0	X007IND	"XPLIND" Indicator byte equate
Comment					
Response byte equates					
End of Comment					
36	(24)	X'9'	0	X007RESP	"XPLRESP" Response byte equate
36	(24)	X'80'	0	X007IOER	"XPLREB0" Response bit to indicate I/O error
Comment					
Condition byte equates					
End of Comment					
36	(24)	X'8'	0	X007COND	"XPLCOND" Condition byte equate
36	(24)	X'40'	0	X007CBWR	"XPLCOB1" Control block is to be written
36	(24)	X'20'	0	X007CBUN	"XPLCOB2" Unknown control block read
36	(24)	X'10'	0	X007CBIN	"XPLCOB3" Invalid control block read
36	(24)	X'10'	0	X007PLUS	"XPLPLUS" Exit 07 parameter list
16	(10)	CHARACTER	4	X007CBID	Control block ID
16	(10)	X'14'	0	X007SIZE	** -XPL" Length of Exit 07 xpl
Comment					
Exit 8 XPL values Control block read/write (user, subtask, and FSS)					
End of Comment					
16	(10)	.... ...1 X'8'	0	X008VERN X008XID	"X'01" Exit 08 XPL version number "8" Exit 08 id
Comment					
Indicator byte equates					
End of Comment					
16	(10)	X'7'	0	X008IND	"XPLIND" Indicator byte equate
Comment					
Response byte equates					
End of Comment					

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
16	(10)	X'9'	0	X008RESP	"XPLRESP" Response byte equate
16	(10)	X'80'	0	X008IOER	"XPLREB0" Response bit to indicate I/O error
Comment					
Condition byte equates					
End of Comment					
16	(10)	X'8'	0	X008COND	"XPLCOND" Condition byte equate
16	(10)	X'40'	0	X008CBWR	"XPLCOB1" Control block is to be written
16	(10)	X'20'	0	X008CBUN	"XPLCOB2" Unknown control block read
16	(10)	X'10'	0	X008CBIN	"XPLCOB3" Invalid control block read
16	(10)	X'8'	0	X008FSSM	"XPLCOB4" CBIO done by FSSM
16	(10)	X'10'	0	X008PLUS	"XPLPLUS" Exit 08 parameter list
16	(10)	CHARACTER	4	X008CBID	Control block ID
16	(10)	X'14'	0	X008SIZE	** -XPL" Length of Exit 07 xpl
Comment					
Exit 9 XPL values Output excession options					
End of Comment					
16	(10)	X'9'	0	X009VERN X009XID	"X'02" Exit 9 XPL version number "9" Exit 9 id
Comment					
Indicator byte equates					
End of Comment					
16	(10)	X'7'	0	X009IND	"XPLIND" Indicator byte
		.... 1...		X009USER	"B'00001000" Invoked from JES2 address space
		.... .1..		X009CNCL	"B'00000100" CANCEL on JOB JCL keyword
		.... ..1.		X009DUMP	"B'00000010" DUMP on JOB JCL keyword
		.... ...1		X009WARN	"B'00000001" WARNING on JOB JCL keyword
16	(10)	X'F'	0	X009INDX	"X009USER+X009CNCL+X009DUMP+X009WARN" Valid indicator bits
Comment					
Condition byte equates					
End of Comment					
16	(10)	X'8'	0	X009COND	"XPLCOND" Condition byte
16	(10)	X'80'	0	X009CEXC	"XPLCOB0" Cards exceeded estimate
16	(10)	X'40'	0	X009LEXC	"XPLCOB1" Lines exceeded estimate
16	(10)	X'20'	0	X009PEXC	"XPLCOB2" Pages exceeded estimate
16	(10)	X'10'	0	X009BEXC	"XPLCOB3" Bytes exceeded estimate
16	(10)	X'F0'	0	X009CONX	"X009CEXC+X009LEXC+X009PEXC+X009BEXC" Valid condition bits
Comment					
Response byte equates					
End of Comment					
16	(10)	X'9'	0	X009RESP	"XPLRESP" Response byte
16	(10)	X'80'	0	X009XOVR	"XPLREB0" Execution Option Value Returned (bits 6 and 7)
16	(10)	X'40'	0	X009OLIR	"XPLREB1" Output Limit Increment Returned in Parm List
16	(10)	X'20'	0	X009SDEM	"XPLREB2" Suppress Default Error Message
16	(10)	X'10'	0	X009USRB	"XPLREB3" Use Response Bits
16	(10)	X'E0'	0	X009RESX	"X009XOVR+X009OLIR+X009SDEM" Valid response bits
16	(10)	X'2'	0	X009722D	"XPLREB6" ABEND (722) with dump

# \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
16	(10)	X'1'	0	X009722N	"XPLREB7" ABEND (722) with no dump
Comment					
-----					
X009XOVR must be set to 1 for these bits to be used. For a response of WARNING, X009722D and X009722N are left as 0 and X009XOVR must be set to 1.					
-----					
End of Comment					
16	(10)	X'3'	0	X009RESO	"X009722D+X009722N" Valid options bits
16	(10)	X'10'	0	X009PLUS	"XPLPLUS" Exit 9 parameter list
16	(10)	ADDRESS	4	X009JCT	Address of JCT
Comment					
-----					
The following line/punch, page and byte counts have a maximum of X'7FFFFFFF'. If the actual value exceeds this maximum, these fields will be truncated at X'7FFFFFFF' and the exact counts should be obtained from corresponding packed decimal format fields below.					
-----					
End of Comment					
20	(14)	SIGNED	4	X009LVAL	JCTLINES or JCTPUNCH value
24	(18)	SIGNED	4	X009PVAL	JCTPAGES value
28	(1C)	SIGNED	4	X009BVAL	JCTBYTES value
32	(20)	SIGNED	4	X009RINC	User's increase for records
36	(24)	SIGNED	4	X009PINC	User's increase for pages
40	(28)	SIGNED	4	X009BINC	User's increase for bytes
44	(2C)	SIGNED	4		Reserved for future use
48	(30)	DBL WORD	8	(0)	Force next fields dbleword
48	(30)		8	X009DLIN	Job's exact line/punch cnt in packed decimal format
56	(38)		8	X009DPAG	Job's exact page count in packed decimal format
64	(40)		8	X009DBYT	Job's exact byte count in packed decimal format
72	(48)	DBL WORD	8	(0)	Force length multi-double
72	(48)	X'48'	0	X009SIZE	** -XPL" Size of XPL for exit 9
Comment					
Exit 10-14 have no XPLs 10 - \$WTO screen 11 - Spool partitioning allocation (\$TRACK) 12 - Spool partitioning allocation (\$STRAK) 13 - Retired 14 - Job queue work select - \$QGET Exit 15 XPL values Output data set/copy select					
-----					
End of Comment					
72	(48)	X'F' .... ...1	0	X015XID X015VERN	"15" Exit 15 ID "X'01" Exit 15 XPL version number
Comment					
Indicator byte equates					
-----					
End of Comment					
72	(48)	X'7' 1... .... .1.. ....	0	X015IND X015DSEL X015DSEP	"XPLIND" Indicator byte equate "X'80" Data set selection call "X'40" Separator page call



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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Comment

Condition byte equates

End of Comment

72	(48)	X'8'	0	X015COND	"XPLCOND" Condition byte
72	(48)	X'80'	0	X015RFSW	"XPLCOB0" Condition bit that specifies the Pddb references the SWBTU
72	(48)	X'40'	0	X015SEPP	"XPLCOB1" Bit is on if SEPDS=YES indicating ds separator pages are requested

Comment

Response byte equates

End of Comment

72	(48)	X'9'	0	X015RESP	"XPLRESP" Response byte equate
72	(48)	X'80'	0	X015BYPS	"XPLREB0" Response bit to bypass the current Pddb
72	(48)	X'10'	0	X015PLUS	"XPLPLUS" Exit 15 parameter list
16	(10)	ADDRESS	4	X015DCT	Address of the DCT
20	(14)	ADDRESS	4	X015JCT	Address of the JCT
24	(18)	ADDRESS	4	X015DSCT	Address of DSCT or zeroes
28	(1C)	ADDRESS	4	X015JQE	Address of the JQE
32	(20)	ADDRESS	4	X015JOA	Address of the JOA
36	(24)	SIGNED	4		Reserved for future use
40	(28)	ADDRESS	4	X015Pddb	Address of the current Pddb
44	(2C)	ADDRESS	4	X015SWBT	Address of the SWBTU pointer list for 1st data set for the current JOE or zero
48	(30)	SIGNED	2	X015NSWB	Number of SWBITs despoiled
50	(32)	SIGNED	2	X015RSVD	Reserved for future use
52	(34)	ADDRESS	4	X015PRTR	Address of the Print Translate Table
56	(38)	ADDRESS	4	X015CCWT	Address of the CCW Translate Table
60	(3C)	SIGNED	4	X015NCOP	Original number of copies of the data set to be printed
64	(40)	SIGNED	4	X015CPRT	Number of copies currently printed
68	(44)	ADDRESS	4	X015CPGP	Address of the Copy Group
72	(48)	SIGNED	4	X015CGCT	Current Copy Group Count
72	(48)	X'4C'	0	X015SIZE	"*-XPL" Size of XPL for Exit 1
72	(48)	X'20'	0	X015WJOE	"X015JOA" Equate for work JOE.

Comment

Exit 16-19 have no XPLs  
 16 - Notify  
 17 - BSC RJE SIGNON/SIGNOFF  
 18 - SNA RJE LOGON/LOGOFF  
 19 - Initialization statement  
 Exit 20 XPL values  
 End of input

End of Comment

72	(48)	X'14'	0	X020XID	"20" Exit 20 ID
		.... ..1.		X020VERN	"X'02" Exit 20 XPL version number

Comment

Indicator byte equates

End of Comment

72	(48)	X'7'	0	X020IND	"XPLIND" Indicator byte equate
----	------	------	---	---------	--------------------------------

## \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Condition byte equates					
End of Comment					
72	(48)	X'8'	0	X020COND	"XPLCOND" Condition byte
72	(48)	X'80'	0	X020GJOB	"XPLCOB0" Condition bit that specifies a normal job
72	(48)	X'40'	0	X020JECL	"XPLCOB1" Condition bit specifies JECL error
72	(48)	X'20'	0	X020BSAF	"XPLCOB2" Condition bit specifies SAF failure
72	(48)	X'10'	0	X020WSEL	"XPLCOB3" Condition bit specifies work selection mismatch
Comment					
Response byte equates					
End of Comment					
72	(48)	X'9'	0	X020RESP	"XPLRESP" Response byte equate
72	(48)	X'80'	0	X020NORM	"XPLREB0" Response bit to do normal process
72	(48)	X'40'	0	X020OUTP	"XPLREB1" Response bit to terminate job with output
72	(48)	X'20'	0	X020PURG	"XPLREB2" Response bit to terminate by purge
72	(48)	X'10'	0	X020AVF	"XPLREB3" Response bit to indicate exit's job verify failed
72	(48)	X'10'	0	X020PLUS	"XPLPLUS" Exit 20 parameter list
16	(10)	ADDRESS	4	X020JCT	Address of the JCT
20	(14)	ADDRESS	4	X020JQE	Address of the JQA
24	(18)	ADDRESS	4	X020DCT	Address of the DCT
28	(1C)	ADDRESS	4	X020AREA	Address of JRW
32	(20)	SIGNED	1	X020PRIO	Job priority
33	(21)	BITSTRING	1	X020FLG1	Flags
		1... ....		X0201ARM	"B'10000000" SYSAFF set by MVS ARM
		.1... ....		X0201IND	"B'01000000" Independent system aff
34	(22)	SIGNED	2	X020XNOD	Execution node
36	(24)	BITSTRING	4	X020SAF	Full system affinity mask
40	(28)	CHARACTER	16	X020SENV	SCHENV value
56	(38)	CHARACTER	8	X020JCLS	Job class
64	(40)	BITSTRING	1	X020NEXT	Next job phase
68	(44)	ADDRESS	4	(0)	Align to word boundary
68	(44)	X'44'	0	X020SIZE	**XPL" Size of XPL for Exit 20
Comment					
Exit 21 (No XPL for exit) SMF record Exit 22 XPL values Cancel/status					
End of Comment					
68	(44)	.... ...1 X'16'	0	X022VERN X022XID	"X'01" Exit 22 XPL version number "22" Exit 22 id
Comment					
Indicator byte equates					
End of Comment					
68	(44)	X'7'	0	X022IND	"XPLIND" Indicator byte equate
68	(44)	X'0'	0	X022FRST	"0" First call to exit
68	(44)	X'4'	0	X022MURE	"4" Multiple recall
68	(44)	X'8'	0	X022MUST	"8" Multiple status overflow

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Response byte equates					
End of Comment					
68	(44)	X'9'	0	X022RESP	"XPLRESP" Response byte equate
68	(44)	X'80'	0	X022IOER	"XPLREB0" Response bit to indicate I/O error
Comment					
Condition byte equates					
End of Comment					
68	(44)	X'8'	0	X022COND	"XPLCOND" Condition Byte
68	(44)	X'10'	0	X022PLUS	"XPLPLUS" Exit 22 parameter list
16	(10)	ADDRESS	4	X022STAC	Address of STAC
20	(14)	SIGNED	4	X022STAA	ALET of STAC
20	(14)	X'18'	0	X022SIZE	**"XPL" Size of XPL for Exit 20
Comment					
Exit 23 (No XPL for exit)					
FSS job separator page (JSPA) processing					
Exit 24 XPL values					
Post-initialization					
End of Comment					
20	(14)	.... ...1 X'18'	0	X024VERN X024XID	"X'01" Exit 24 XPL version number "24" Exit 24 id
Comment					
Indicator Byte Equates					
End of Comment					
20	(14)	X'7'	0	X024IND	"XPLIND" Indicator Byte Equate
Comment					
Condition Byte Equates					
End of Comment					
20	(14)	X'8'	0	X024COND	"XPLCOND" Condition Byte - Start Type
20	(14)	X'80'	0	X024WARM	"\$WARM" Single-System Warm Start
20	(14)	X'40'	0	X024HOT	"\$HOT" Hot start
20	(14)	X'20'	0	X024QCK	"\$QUICK" Quick Start
20	(14)	X'10'	0	X024ALLS	"\$CONFIG" All-Systems Warm-Start
20	(14)	X'8'	0	X024ESYS	"\$ESYS" \$E SYS Restart
20	(14)	X'4'	0	X024COLD	"\$COLD" Cold start
20	(14)	X'2'	0	X024IPL	"\$MVS IPL" System was IPLed
20	(14)	X'1'	0	X024COFM	"\$COLDFMT" Cold start with format
Comment					
Response Byte Equates					
End of Comment					
20	(14)	X'9'	0	X024RESP	"XPLRESP" Response Byte
20	(14)	X'80'	0	X024RSSI	"XPLREB0" Exit has built an Information string
20	(14)	X'10'	0	X024PLUS	"XPLPLUS" Exit 24 parameter list
16	(10)	ADDRESS	4	X024SSIA	Address of SSI info area
20	(14)	SIGNED	2	X024SSWL	Length of info work area
22	(16)	SIGNED	2	X024SSIL	Size of installation data string

## \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
22	(16)	X'18'	0	X024SIZE	**"XPL" Size of XPL for exit 24
Comment					
Exit 25-30 have no XPLs					
25 - JCT read					
26 - Termination/resource release					
27 - PCE attach/detach					
28 - Subsystem interface (SSI) job termination					
29 - Subsystem interface (SSI) end-of-memory					
30 - Subsystem interface (SSI) data set OPEN/restart					
Exit 31 XPL values					
Subsystem interface (SSI) allocation					
End of Comment					
22	(16)	X'1F'	0	X031VERN X031XID	"X'01" Exit 31 XPL version number "31" Exit 31 id
Comment					
Indicator Byte Equates					
End of Comment					
22	(16)	X'7'	0	X031IND	"XPLIND" Indicator Byte Equate
Comment					
Condition Byte Equates					
End of Comment					
22	(16)	X'8'	0	X031COND	"XPLCOND" Condition Byte
22	(16)	X'1'	0	X031ERR	"XPLCOB7" Allocation error
Comment					
Response Byte Equates					
End of Comment					
22	(16)	X'9'	0	X031RESP	"XPLRESP" Response Byte
22	(16)	X'1'	0	X031FAIL	"XPLREB7" Fail allocation request
22	(16)	X'10'	0	X031PLUS	"XPLPLUS" Exit 31 parameter list
16	(10)	BITSTRING	1	X031DSTY	Dataset type
16	(10)	X'0'	0	X031INTR	"0" Internal reader
16	(10)	X'4'	0	X031JSNW	"4" JESNEWS
16	(10)	X'8'	0	X031SYIN	"8" SYSIN
16	(10)	X'C'	0	X031SYSO	"12" SYSOUT
16	(10)	X'10'	0	X031PSPI	"16" PSO or SAPI
16	(10)	X'14'	0	X031SDSB	"20" SPOOL browse
16	(10)	X'18'	0	X031UNK	"24" Unknown
17	(11)	BITSTRING	3		Reserved
20	(14)	ADDRESS	4	X031SDB	Address of SDB/IRWD or zero
24	(18)	ADDRESS	4	X031SJB	Address of SJB or zero
28	(1C)	ADDRESS	4	X031JFCB	Address of JFCB
32	(20)	ADDRESS	4	X031PDDB	Address of PDDB or zero
36	(24)	ADDRESS	4	X031IOT	Address of IOT or zero
36	(24)	X'28'	0	X031SIZE	**"XPL" Size of XPL for exit 31

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Exit 32-35 have no XPLs 32 - Subsystem interface (SSI) job selection 33 - Subsystem interface (SSI) data set CLOSE 34 - Subsystem interface (SSI) data set unallocation 35 - Subsystem interface (SSI) end-of-task Exit 36 XPL values Pre-security authorization call					
End of Comment					
36	(24)	.... ...1 X'24'	0	X036VERN X036XID	"X'01" Exit 36 XPL version number "36" Exit 36 id
Comment					
Indicator Byte Equates					
End of Comment					
36	(24)	X'7'	0	X036IND	"XPLIND" Indicator byte
Comment					
Condition Byte Equates					
End of Comment					
36	(24)	X'8'	0	X036COND	"XPLCOND" Condition byte
36	(24)	X'80'	0	X036JES2	"XPLCOB0" JES2 exit caller
36	(24)	X'40'	0	X036USER	"XPLCOB1" User exit caller
Comment					
Response Byte Equates					
End of Comment					
36	(24)	X'9'	0	X036RESP	"XPLRESP" Response byte
36	(24)	X'2'	0	X036NORC	"XPLREB6" Exit-specified return/reason codes to be used
36	(24)	X'1'	0	X036BYPS	"XPLREB7" Bypass SAF call
36	(24)	X'10'	0	X036PLUS	"XPLPLUS" Exit 36 parameter list
16	(10)	ADDRESS	4	X036PARM	RACROUTE parm list WAVRACRP
20	(14)	ADDRESS	4	X036WAVE	Address of \$WAVE
24	(18)	CHARACTER	4	X036RCBN	Acronym of function related control block
28	(1C)	ADDRESS	4	X036RCBA	Address of function related control block
32	(20)	SIGNED	4	X036RETC	Exit-supplied return code
36	(24)	SIGNED	4	X036RSNC	Exit-supplied reason code
36	(24)	X'28'	0	X036SIZE	**XPL" Size of XPL for exit 36
Comment					
Exit 37 XPL values Post-security authorization call					
End of Comment					
36	(24)	.... ...1 X'25'	0	X037VERN X037XID	"X'01" Exit 37 XPL version number "37" Exit 37 id
Comment					
Indicator Byte Equates					
End of Comment					
36	(24)	X'7'	0	X037IND	"XPLIND" Indicator byte

## \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Condition Byte Equates					
End of Comment					
36	(24)	X'8'	0	X037COND	"XPLCOND" Condition byte
36	(24)	X'80'	0	X037JES2	"XPLCOB0" JES2 exit caller
36	(24)	X'40'	0	X037USER	"XPLCOB1" User exit caller
Comment					
Response Byte Equates					
End of Comment					
36	(24)	X'9'	0	X037RESP	"XPLRESP" Response byte
36	(24)	X'2'	0	X037NORC	"XPLREB6" Exit-specified return/reason codes to be used
36	(24)	X'10'	0	X037PLUS	"XPLPLUS" Exit 37 parameter list
16	(10)	ADDRESS	4	X037PARM	RACROUTE parm list WAVRACRP
20	(14)	ADDRESS	4	X037WAVE	Address of \$WAVE
24	(18)	CHARACTER	4	X037RCBN	Acronym of function related control block
28	(1C)	ADDRESS	4	X037RCBA	Address of function related control block
32	(20)	SIGNED	4	X037RETC	Exit-supplied return code
36	(24)	SIGNED	4	X037RSNC	Exit-supplied reason code
36	(24)	X'28'	0	X037SIZE	** -XPL" Size of XPL for exit 37
Comment					
Exit 38 XPL values TSO/E receive data set disposition					
End of Comment					
36	(24)	.... ...1 X'26'	0	X038VERN X038XID	"X'01" Exit 38 XPL version number "38" Exit 38 id
Comment					
Indicator Byte Equates					
End of Comment					
36	(24)	X'7'	0	X038IND	"XPLIND" Indicator byte
Comment					
Condition Byte Equates					
End of Comment					
36	(24)	X'8'	0	X038COND	"XPLCOND" Condition byte
Comment					
Response Byte Equates					
End of Comment					
36	(24)	X'9'	0	X038RESP	"XPLRESP" Response byte
36	(24)	X'80'	0	X038KEEP	"XPLREB0" Keep the JOE
36	(24)	X'10'	0	X038PLUS	"XPLPLUS" Exit 38 parm list additions
16	(10)	ADDRESS	4	X038PSO	Address of PSO
20	(14)	ADDRESS	4	X038JOA	Address of the JOA
20	(14)	X'18'	0	X038SIZE	** -XPL" Size of XPL for exit 38
20	(14)	X'14'	0	X038JOE	"X038JOA" Equate for work JOE.

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Exit 39 XPL values BSC and SNA NJE SYSOUT reception can never receive					
End of Comment					
20	(14)	.... ...1 X'27'	0	X039VERN X039XID	"X'01" Exit 39 XPL version number "39" Exit 39 id
Comment					
Indicator Byte Equates					
End of Comment					
20	(14)	X'7'	0	X039IND	"XPLIND" Indicator byte
Comment					
Condition Byte Equates					
End of Comment					
20	(14)	X'8'	0	X039COND	"XPLCOND" Condition byte
Comment					
Response Byte Equates					
End of Comment					
20	(14)	X'9'	0	X039RESP	"XPLRESP" Response byte
20	(14)	X'80'	0	X039RECV	"XPLREB0" Allow data set receive
20	(14)	X'10'	0	X039PLUS	"XPLPLUS" Exit 39 parm list additions
16	(10)	ADDRESS	4	X039PDDB	PDDB address
20	(14)	ADDRESS	4	X039JCT	JCT address
24	(18)	ADDRESS	4	X039NDH	Data set header address
28	(1C)	ADDRESS	4	X039AREA	SRW address
28	(1C)	X'20'	0	X039SIZE	**"XPL" Length of Exit 39 parm list
Comment					
Exit 40 XPL values Modifying SYSOUT characteristics					
End of Comment					
28	(1C)	.... ...1 X'28'	0	X040VERN X040XID	"X'01" Exit 40 XPL version number "40" Exit 40 id
Comment					
Indicator Byte Equates					
End of Comment					
28	(1C)	X'7'	0	X040IND	"XPLIND" Indicator byte
		1... ....		X040SPIN	"X'80" This is a spin data set
		.1.. ....		X040NSPN	"X'40" This is a non-spin data set
		..1. ....		X040UNSP	"X'20" This is an unspun data set
Comment					
Condition Byte Equates					
End of Comment					
28	(1C)	X'8'	0	X040COND	"XPLCOND" Condition byte equate

# \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Response Byte Equates					
End of Comment					
28	(1C)	X'9'	0	X040RESP	"XPLRESP" Response byte
28	(1C)	X'80'	0	X040RFNT	"XPLREB0" Force mail message regardless of NJEDEF MAILMSG= value
28	(1C)	X'40'	0	X040RNNT	"XPLREB1" Suppress mail message regardless of NJEDEF MAILMSG= value
28	(1C)	X'10'	0	X040PLUS	"XPLPLUS" Exit 40 parameter list
16	(10)	ADDRESS	4	X040PDDB	Address of PDDB
20	(14)	ADDRESS	4	X040JQE	Address of JQE
24	(18)	ADDRESS	4	X040JCT	Address of JCT
28	(1C)	ADDRESS	4	X040DSCT	Address of DSCT
32	(20)	CHARACTER	20	X040VTXT	Variable text for \$HASP548
32	(20)	X'34'	0	X040SIZE	** -XPL" Length of Exit 40 xpl
Comment					
Exit 41 XPL values Modifying output grouping key selection					
End of Comment					
32	(20)	.... ..1 X'29'	0	X041VERN X041XID	"X'01" Exit 41 XPL version number "41" Exit 41 id
Comment					
Indicator Byte Equates					
End of Comment					
32	(20)	X'7'	0	X041IND	"XPLIND" Indicator byte
Comment					
Condition Byte Equates					
End of Comment					
32	(20)	X'8'	0	X041COND	"XPLCOND" Condition byte
Comment					
Response byte equates					
End of Comment					
32	(20)	X'9'	0	X041RESP	"XPLRESP" Response byte
32	(20)	X'10'	0	X041PLUS	"XPLPLUS" Exit 41 parameter list
16	(10)	ADDRESS	4	X041GGKT	Address of grouping keys table (mapped by the SJTRKEYL DSECT in the IEFSJTRP macro)
20	(14)	SIGNED	2	X041DEFN	Number of defined entries
22	(16)	SIGNED	2	X041TOTN	Total number of entries (including reserved entries)
22	(16)	X'18'	0	X041RSVN	"24" Number of entries reserved for additional keys
24	(18)	CHARACTER	8	X041JDVT	JDVT name
24	(18)	X'20'	0	X041SIZE	** -XPL" Size of XPL for exit 41
Comment					
Exit 42 XPL values Modifying a notify user message					
End of Comment					
		.... ..1.		X042VERN	"X'02" Exit 42 XPL version number



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
24	(18)	X'2A'	0	X042XID	"42" Exit 42 id
Comment					
Indicator Byte Equates					
End of Comment					
24	(18)	X'7' 1... ..	0	X042IND X042UNTK	"XPLIND" Indicator byte "B'10000000" User token ignored for unauthorized caller
Comment					
Condition Byte Equates					
End of Comment					
24	(18)	X'8'	0	X042COND	"XPLCOND" Condition byte These bit definitions reflect the footprints of \$NOUSWRK and should maintain the same order as defined.
24	(18)	X'40'	0	X042EMSG	"XPLCOB1" Error in msg specificatn
24	(18)	X'20'	0	X042NOXT	"XPLCOB2" No extension exists
24	(18)	X'10'	0	X042EXTE	"XPLCOB3" Extension Error
24	(18)	X'8'	0	X042NOAU	"XPLCOB4" No authorization
24	(18)	X'4'	0	X042UERR	"XPLCOB5" Userid not specified
24	(18)	X'2'	0	X042DERR	"XPLCOB6" Destination error
Comment					
EQU XPLCOB7 Obsolete (z9) Response Byte Equates					
End of Comment					
24	(18)	X'9'	0	X042RESP	"XPLRESP" Response byte
24	(18)	X'80'	0	X042CANC	"XPLREB0" Send/Cancel indicator
24	(18)	X'40'	0	X042SETR	"XPLREB1" Exit specified reason/RC
24	(18)	X'20'	0	X042NOCH	"XPLREB2" Node has been changed
24	(18)	X'10'	0	X042RMCH	"XPLREB3" Remote has been changed
24	(18)	X'8'	0	X042USCH	"XPLREB4" USERID has been changed
24	(18)	X'4'	0	X042MSGC	"XPLREB5" Msg text has been changed
24	(18)	X'2'	0	X042MEMC	"XPLREB6" Member has been changed
24	(18)	X'1'	0	X042MAIN	"XPLREB7" Queue CMB to main task
24	(18)	X'10'	0	X042PLUS	"XPLPLUS" Exit 42 parameter list
Comment					
<p>-----</p> <p>Note that the IAZSSNU storage is in the SSI caller's key. To access the storage, key instructions (e.g. MVCK, MVCDK, etc.) should be used with the SSI caller's key provided in X042CKEY when accessing data in the IAZSSNU.</p> <p>-----</p>					
End of Comment					
16	(10)	ADDRESS	4	X042SNUA	Address of SSOB ext SSNU
20	(14)	SIGNED	2	X042NEWN	Current/updated binary node
22	(16)	SIGNED	2	X042NEWR	Current/updated binary remote
24	(18)	SIGNED	2	X042NWML	Current/updated message length
26	(1A)	SIGNED	2	X042REAS	Exit specified reason code
28	(1C)	SIGNED	4	X042RC	Exit specified return code
32	(20)	CHARACTER	8	X042NEWU	Current/updated userid
40	(28)	ADDRESS	4	X042NEWM	Pointer to current/updated message
44	(2C)	BITSTRING	1	X042CKEY	SSI caller's key
45	(2D)	SIGNED	1	X042MEMB	Current/updated member number
46	(2E)	BITSTRING	2		Reserved

## \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
46	(2E)	X'30'	0	X042SIZE	**"XPL" Length of Exit 42 xpl
Comment					
Exit 43 XPL values APPC/MVS TP selection/change/termination					
End of Comment					
46	(2E)	.... ..1 X'2B'	0	X043VERN X043XID	"X'01" Exit 43 XPL version number "43" Exit 43 id
Comment					
Indicator Byte Equates					
End of Comment					
46	(2E)	X'7'	0	X043IND	"XPLIND" Indicator byte in parmlist
		1... ..		X043TPS	"X'80" This is Transaction Select
		.1... ..		X043TPT	"X'40" This is Trans Terminate
		..1. ....		X043CHG	"X'20" This is Transaction Change
Comment					
Condition Byte Equates					
End of Comment					
46	(2E)	X'8'	0	X043COND	"XPLCOND" Condition byte
Comment					
Response Byte Equates					
End of Comment					
46	(2E)	X'9'	0	X043RESP	"XPLRESP" Response byte
46	(2E)	X'10'	0	X043PLUS	"XPLPLUS" Exit 43 parameter list
16	(10)	ADDRESS	4	X043SJB	Address of SJB
20	(14)	ADDRESS	4	X043JCT	Address of JCT
20	(14)	X'18'	0	X043SIZE	**"XPL" Length of Exit 43 XPL
Comment					
Exit 44 XPL values JES2 converter exit (JES2 main task)					
End of Comment					
20	(14)	.... ..1 X'2C'	0	X044VERN X044XID	"X'02" Exit 44 XPL version number "44" Exit 44 id
Comment					
Indicator byte equates					
End of Comment					
20	(14)	X'7'	0	X044IND	"XPLIND" Indicator byte in parmlist
20	(14)	X'0'	0	X044JCLO	"0" JCL Converted without error
20	(14)	X'4'	0	X044JCLE	"4" JCL error detected by converter
20	(14)	X'8'	0	X044CPER	"8" System error encountered during conversion - see condition byte for additional information

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					

Condition byte equates  
 The following flags describe the current error to the exit routine. The job will be processed as indicated for each error condition unless directed otherwise by the exit routine via response byte.

End of Comment					
20	(14)	X'8'	0	X044COND	"XPLCOND" Condition byte
20	(14)	X'80'	0	X044DLGN	"XPLCOB0" Duplicate logon job; job will be queued for OUTPUT
20	(14)	X'40'	0	X044FKOF	"XPLCOB1" 'FAKE-OPEN' failure; job will be queued for OUTPUT
20	(14)	X'20'	0	X044CNWT	"XPLCOB2" Job was not converted - requested resources not available; job will be re-queued for conversion

Comment					
---------	--	--	--	--	--

Response byte equates  
 The following flags describe the actions exit routine can direct JES2 to take instead of the standard actions as indicated in the condition byte above for individual error conditions.

End of Comment					
20	(14)	X'9'	0	X044RESP	"XPLRESP" Response byte
20	(14)	X'80'	0	X044OUTQ	"XPLREB0" Queue job for output
20	(14)	X'40'	0	X044PURQ	"XPLREB1" Queue job for purge
20	(14)	X'20'	0	X044CNVQ	"XPLREB2" Re-queue job for conversion
20	(14)	X'10'	0	X044PLUS	"XPLPLUS" Exit 44 parameter list
16	(10)	ADDRESS	4	X044JCT	Address of the JCT
20	(14)	ADDRESS	4	X044JQE	Address of the JQE
20	(14)	X'18'	0	X044SIZE	"*-XPL" Size of XPL for Exit 44

Comment					
---------	--	--	--	--	--

Exit 45 XPL values  
 Pre-SJF service request

End of Comment					
20	(14)	.... ..1. X'2D'	0	X045VERN X045XID	"X'02" Exit 45 XPL version number "45" Exit 45 id

Comment					
---------	--	--	--	--	--

Indicator byte equates

End of Comment					
20	(14)	X'7'	0	X045IND	"XPLIND" Indicator byte

Comment					
---------	--	--	--	--	--

Condition byte equates

End of Comment					
20	(14)	X'8'	0	X045COND	"XPLCOND" Condition byte These bit definitions reflect the error flags of \$SFSWORK and should maintain the same order as defined.

## \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
20	(14)	X'80'	0	X045PCED	"XPLCOB0" Service PCE disabled
20	(14)	X'40'	0	X045JESD	"XPLCOB1" JES2 Main Task is down
20	(14)	X'20'	0	X045NOXT	"XPLCOB2" No extension exists
20	(14)	X'10'	0	X045EXTE	"XPLCOB3" Extension Error
20	(14)	X'8'	0	X045NOAU	"XPLCOB4" Token Extract error
20	(14)	X'4'	0	X045INVF	"XPLCOB5" Function not supported
20	(14)	X'2'	0	X045INVI	"XPLCOB6" Incorrect input to function
Comment					
Response byte equates					
End of Comment					
20	(14)	X'9'	0	X045RESP	"XPLRESP" Response byte
20	(14)	X'80'	0	X045CANC	"XPLREB0" Send/Cancel indicator
20	(14)	X'40'	0	X045SETR	"XPLREB1" Exit specified reason/RC
20	(14)	X'10'	0	X045PLUS	"XPLPLUS" Exit 45 parameter list
Comment					
<p>-----</p> <p>Note that the IAZSSSF storage is in the SSI caller's key. To access the storage, key instructions (e.g. MVCK, MVCDK, etc.) should be used with the SSI caller's key provided in X045CKEY when accessing data in the IAZSSSF. Many IAZSSSF fields have been copied to X045xxxxx fields located here, which don't require keyed instructions.</p> <p>-----</p>					
End of Comment					
16	(10)	ADDRESS	4	X045SSFA	Address of SSOB ext IAZSSSF
20	(14)	ADDRESS	4	X045SFRB	Address of SFRB
24	(18)	SIGNED	2	X045RSVD	Reserved
26	(1A)	SIGNED	2	X045REAS	Exit specified reason code
28	(1C)	SIGNED	4	X045RC	Exit specified return code
32	(20)	BITSTRING	1	X045CKEY	SSI caller's key *
Comment					
<p>X045FLG1 flag bit definitions must correspond to the ones in SSSFFLG1 (IAZSSSF) and in SFRFFLG (\$SFRB).</p>					
End of Comment					
33	(21)	BITSTRING	1	X045FLG1	SSSFFLG1
		1... ....		X045DEST	"B'10000000" DEST authorization check
		.1.. ....		X045SECL	"B'01000000" Seclabel dominance check
		..1. ....		X045JSSP	"B'00100000" JESPOOL check (default)
34	(22)	BITSTRING	2		Reserved
36	(24)	CHARACTER	8	X045JBNM	JOBNAME
44	(2C)	CHARACTER	8	X045JBID	JOBID
52	(34)	CHARACTER	8	X045GRPN	Output group name
60	(3C)	SIGNED	2	X045GRP1	Output group - first ID
62	(3E)	SIGNED	2	X045GRP2	Output group - second ID
64	(40)	CHARACTER	8	X045CART	CART for WTO responses
72	(48)	SIGNED	4	X045CNID	Console ID for WTO response
76	(4C)	ADDRESS	4	X045MDAD	Addr of output descriptor modify list in SWBTU format
80	(50)	ADDRESS	4	X045ERAD	Addr of output descriptor erase list in TU format
84	(54)	SIGNED	2	X045MDLN	Len of Modify list (SWBTU)
86	(56)	SIGNED	2	X045ERLN	Len of Erase list (TU)
86	(56)	X'58'	0	X045SIZE	"*-XPL" Length of Exit 45 xpl

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Exit 46 XPL values NJE BSC or SNA header transmit					
End of Comment					
86	(56)	.... ..1. X'2E'	0	X046VERN X046XID	"X'02" Exit 46 XPL version number "46" Exit 46 id
Comment					
Indicator byte equates					
End of Comment					
86	(56)	X'7'	0	X046IND	"XPLIND" Indicator byte
		1... ....		X046HDR	"B'10000000" Job Header call
		.1.. ....		X046TRL	"B'01000000" Job Trailer call
		..1. ....		X046DSH	"B'00100000" Data Set Header call
		...1 ....		X046RCCS	"B'00010000" RCCS Data Set Header call
Comment					
Condition byte equates					
End of Comment					
86	(56)	X'8'	0	X046COND	"XPLCOND" Condition byte
86	(56)	X'80'	0	X046R1ST	"XPLCOB0" This RCCS header precedes the first data record
Comment					
Response byte equates					
End of Comment					
86	(56)	X'9'	0	X046RESP	"XPLRESP" Response byte
86	(56)	X'80'	0	X046TERM	"XPLREB0" Terminate this transmission
86	(56)	X'40'	0	X046BYP	"XPLREB1" Bypass sending Hdr/Trlr
		..11 1111		X046INV	"B'00111111" Invalid response bit map
86	(56)	X'10'	0	X046PLUS	"XPLPLUS" Exit 46 parameter list
16	(10)	ADDRESS	4	X046HADR	Address of Header/Trailer
20	(14)	ADDRESS	4	X046DCT	Address of DCT
24	(18)	ADDRESS	4	X046JQE	Address of JQE
28	(1C)	ADDRESS	4	X046JCT	Address of JCT
32	(20)	ADDRESS	4	X046PDDB	Address of PDDB (SYSOUT)
36	(24)	ADDRESS	4	X046JOA	Address of JOA (SYSOUT)
40	(28)	ADDRESS	4	X046AREA	Address of NJEWORK area
40	(28)	X'2C'	0	X046SIZE	**"XPL" Length of Exit 46 XPL
40	(28)	X'24'	0	X046JOE	"X046JOA" Equate for work JOE.
Comment					
Exit 47 XPL values NJE BSC or SNA header receive					
End of Comment					
40	(28)	.... ..1. X'2F'	0	X047VERN X047XID	"X'02" Exit 47 XPL version number "47" Exit 47 id
Comment					
Indicator byte equates					
End of Comment					
40	(28)	X'7'	0	X047IND	"XPLIND" Indicator byte

## \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1... ....		X047HDR	"B'10000000" Job Header call
		.1... ....		X047TRL	"B'01000000" Job Trailer call
		..1. ....		X047DSH	"B'00100000" Data Set Header call
		...1 ....		X047RCCS	"B'00010000" RCCS Data Set Header call
		.... 1...		X047BJQE	"B'00001000" JQE address in X047JQE is not a real JQE; don't use as input to \$DOGJQE
Comment					
Condition byte equates					
End of Comment					
40	(28)	X'8'	0	X047COND	"XPLCOND" Condition byte
Comment					
Response byte equates					
End of Comment					
40	(28)	X'9'	0	X047RESP	"XPLRESP" Response byte
40	(28)	X'80'	0	X047TERM	"XPLREB0" Terminate this reception
		.111 1111		X047INV	"B'01111111" Invalid response bit map
40	(28)	X'10'	0	X047PLUS	"XPLPLUS" Exit 47 parameter list
16	(10)	ADDRESS	4	X047HADR	Address of Header/Trailer
20	(14)	ADDRESS	4	X047JCT	Address of JCT
24	(18)	ADDRESS	4	X047JQE	Address of JQE; see description of related bit X047BJQE in flag X047IND
28	(1C)	ADDRESS	4	X047DCT	Address of DCT
32	(20)	ADDRESS	4	X047PDDB	Address of PDDB slot
36	(24)	ADDRESS	4	X047AREA	Address of NJEWORK area
36	(24)	X'28'	0	X047SIZE	** -XPL" Length of Exit 47 XPL
Comment					
Exit 48 (No XPL for exit)					
SSI SYSOUT data set unallocation (unauthorized)					
Exit 49 XPL values					
Job queue work select - QGOT					
End of Comment					
36	(24)	.... ...1	0	X049VERN	"X'01" Exit 49 XPL version number
		X'31'		X049XID	"49" Exit 49 id
Comment					
Indicator byte equates					
End of Comment					
36	(24)	X'7'	0	X049IND	"XPLIND" Indicator byte
36	(24)	X'0'	0	X049NORM	"0" Normal job selection
36	(24)	X'4'	0	X049SJOB	"4" \$\$ job command issued
36	(24)	X'8'	0	X049SJSE	"8" \$\$ job selection
Comment					
Condition byte equates					
End of Comment					
36	(24)	X'8'	0	X049COND	"XPLCOND" Condition byte

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Response byte equates					
End of Comment					
36	(24)	X'9'	0	X049RESP	"XPLRESP" Response byte
36	(24)	X'80'	0	X049SKIP	"XPLREB0" Skip this JQE
36	(24)	X'40'	0	X049NOPT	"XPLREB1" Disallow initiator job selection optimization
36	(24)	X'20'	0	X049NDUP	"XPLREB2" Bypass duplicate job name check for this job
36	(24)	X'1F'	0	X049INV	"FF-X049SKIP-X049NOPT-X049NDUP" Invalid response bit map
36	(24)	X'10'	0	X049PLUS	"XPLPLUS" Exit 49 parameter list
16	(10)	ADDRESS	4	X049JQE	Address of JQE
20	(14)	ADDRESS	4	X049QGT	Address of \$QGET parmlist (zero if \$S job)
20	(14)	X'18'	0	X049SIZE	** -XPL" Length of Exit 49 XPL
Comment					
Exit 50 XPL values					
End of input (User env)					
The mappings of exits 20 and 50 are identical.					
End of Comment					
20	(14)	X'32'	0	X050XID	"50" Exit 50 ID
		.... ...1		X050VERN	"X'01" Exit 50 XPL version number
Comment					
Indicator byte equates					
End of Comment					
20	(14)	X'7'	0	X050IND	"XPLIND" Indicator byte equate
Comment					
Condition byte equates					
End of Comment					
20	(14)	X'8'	0	X050COND	"XPLCOND" Condition byte
20	(14)	X'80'	0	X050GJOB	"XPLCOB0" Condition bit that specifies a normal job
20	(14)	X'40'	0	X050JECL	"XPLCOB1" Condition bit specifies JECL error
20	(14)	X'20'	0	X050BSAF	"XPLCOB2" Condition bit specifies SAF failure
20	(14)	X'10'	0	X050WSEL	"XPLCOB3" Condition bit specifies work selection mismatch
Comment					
Response byte equates					
End of Comment					
20	(14)	X'9'	0	X050RESP	"XPLRESP" Response byte equate
20	(14)	X'80'	0	X050NORM	"XPLREB0" Response bit to do normal process
20	(14)	X'40'	0	X050OUTP	"XPLREB1" Response bit to terminate job with output
20	(14)	X'20'	0	X050PURG	"XPLREB2" Response bit to terminate by purge
20	(14)	X'10'	0	X050AVF	"XPLREB3" Response bit to indicate exit's job verify failed
20	(14)	X'10'	0	X050PLUS	"XPLPLUS" Exit 50 parameter list
16	(10)	ADDRESS	4	X050JCT	Address of the JCT
20	(14)	ADDRESS	4	X050JQE	Address of the JQA
24	(18)	ADDRESS	4	X050DCT	Always zero
28	(1C)	ADDRESS	4	X050AREA	Address of JRW
32	(20)	SIGNED	1	X050PRIO	Job priority
33	(21)	BITSTRING	1	X050FLG1	Flags
		1... ....		X0501ARM	"B'10000000" SYSAFF set by MVS ARM
		.1.. ....		X0501IND	"B'01000000" Independent system aff

## \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
34	(22)	SIGNED	2	X050XNOD	Execution node
36	(24)	BITSTRING	4	X050SAF	Full system affinity mask
40	(28)	CHARACTER	16	X050SENV	SCHENV value
56	(38)	CHARACTER	8	X050JCLS	Job class
64	(40)	BITSTRING	1	X050NEXT	Next job phase
68	(44)	ADDRESS	4	(0)	Align to word boundary
68	(44)	X'44'	0	X050SIZE	** -XPL" Size of XPL for Exit 50
68	(44)	ADDRESS	2	(0)	Ensure XPL for exits 20
68	(44)	ADDRESS	2	(0)	and 50 are same size
Comment					
Exit 51 XPL values Job phase change exit (\$QMOD)					
End of Comment					
68	(44)	X'33' .... ...1	0	X051XID X051VERN	"51" Exit 51 ID "X'01" Exit 51 XPL version number
Comment					
Indicator byte equates					
End of Comment					
68	(44)	X'7'	0	X051IND	"XPLIND" Indicator byte
Comment					
Condition byte equates					
End of Comment					
68	(44)	X'8'	0	X051COND	"XPLCOND" Condition byte
68	(44)	X'80'	0	X051RBLD	"XPLCOB0" I.Job is on the re-build que and will be purged when no longer busy
68	(44)	X'40'	0	X051NOCH	"XPLCOB1" I.Phase change is not allowed (X051RXEQ and X051RQUE ignored)
Comment					
Response byte equates					
End of Comment					
68	(44)	X'9'	0	X051RESP	"XPLRESP" Response byte
68	(44)	X'80'	0	X051RXEQ	"XPLREB0" IO.Job is being/should be requeued for execution (only valid if X051OLDQ is X051QXEQ)
Comment					
To change the next phase of the job, set X051RQUE on and set the next phase in X051NEWQ. You cannot change phase if X051NOCH is on. The new phase must be a later phase than the current phase (X051OLDQ).					
End of Comment					
68	(44)	X'40'	0	X051RQUE	"XPLREB1" O.X051NEWQ has been updated with new phase (X051NEWT no longer matches X051NEWQ)
68	(44)	X'10'	0	X051PLUS	"XPLPLUS" Area 51 parameter list
16	(10)	ADDRESS	4	X051JQA	I.Address of JQA



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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Comment

Note, the JCT, if passed, will not be written after this call. If updated, the exit must write the JCT and wait for the I/O to complete.

End of Comment

20	(14)	ADDRESS	4	X051JCT	I.Address of JCT (or zero)
24	(18)	BITSTRING	1	X051OLDQ	I.Current queue job is in
25	(19)	BITSTRING	1	X051OLDT	I.Current JQE type
26	(1A)	BITSTRING	1	X051NEWQ	IO.New que job is moving to
27	(1B)	BITSTRING	1	X051NEWT	I.Proposed new JQE type

Comment

X051JOB, X051SENV, X051SAF, X0511IND are only meaningful if NEWQ is X051QCNV, X051QSET, X051QXEQ

End of Comment

28	(1C)	CHARACTER	8	X051JOB	IO.JOB class of the job
36	(24)	CHARACTER	16	X051SENV	IO.SCHENV value
52	(34)	BITSTRING	4	X051SAF	IO.Full sysaff mask
56	(38)	BITSTRING	1	X051FLG1	Flags
		.1.. ....		X0511IND	"B'01000000" IO.Independent system aff
57	(39)	BITSTRING	3		UFO.Reserved

Comment

Queue values for X051OLDQ and X051NEWQ (not same as JQETYPE field in JQE).

End of Comment

57	(39)	X'1'	0	X051QINP	"1" Input queue
57	(39)	X'2'	0	X051QCNV	"2" Conversion queue
57	(39)	X'3'	0	X051QSET	"3" Setup queue
57	(39)	X'4'	0	X051QXEQ	"4" Execution queue
57	(39)	X'5'	0	X051QSPN	"5" Spin queue
57	(39)	X'6'	0	X051QXMT	"6" XMIT queue
57	(39)	X'7'	0	X051QRCV	"7" Receive queue
57	(39)	X'8'	0	X051QOUT	"8" Output queue
57	(39)	X'9'	0	X051QHRD	"9" Hardcopy queue
57	(39)	X'A'	0	X051QPUR	"10" Purge queue
57	(39)	X'A'	0	X051QNUM	"10" Total number of queues
57	(39)	X'3C'	0	X051SIZE	**XPL" Size of XPL for Exit 51

Comment

Exit 52 XPL values  
 JOB JCL statement scan (User env)  
 The mapping of fields at the start of exits 2, 4, 52 and 54 are the same. Indicator values may vary based on the exit. The mappings of exits 2 and 52 are identical.

End of Comment

57	(39)	X'34'	0	X052XID	"52" Exit 52 ID
		.... ..1.		X052VERN	"X'02" Exit 52 XPL version number

# \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Indicator byte equates					
End of Comment					
57	(39)	X'7'	0	X052IND	"XPLIND" Indicator byte
57	(39)	X'8'	0	X052JOB	"X002JOB" I.JOB card detected
Comment					
Condition byte equates					
End of Comment					
57	(39)	X'8'	0	X052COND	"XPLCOND" Condition byte
57	(39)	X'80'	0	X052CONT	"X002CONT" I.Card is a continuation
57	(39)	X'10'	0	X052SEC	"X002SEC" I.Not first time exit has been passed card
Comment					
Response byte equates					
End of Comment					
57	(39)	X'9'	0	X052RESP	"XPLRESP" Response byte
57	(39)	X'80'	0	X052XSNC	"X002XSNC" O.Exit supplied next card
57	(39)	X'40'	0	X052XSEM	"X002XSEM" O.Exit supplied error msg
57	(39)	X'20'	0	X052JCMT	"X002JCMT" O.Skip processing card
57	(39)	X'10'	0	X052KILL	"X002KILL" O.Kill current job
57	(39)	X'8'	0	X052PURG	"X002PURG" O.Purge current job
57	(39)	X'4'	0	X052RLOC	"X002RLOC" O.Changed/added cards are not to be sent via NJE (set RJC3LOC in current RJC)
57	(39)	X'10'	0	X052PLUS	"XPLPLUS" Exit 52 parameter list
16	(10)	ADDRESS	4	X052CARD	I.Address card image
20	(14)	ADDRESS	4	X052FLGX	I.For compatibility, ptr to FLAGX. Exits should use X052IND, X052COND and X052RESP instead.
24	(18)	ADDRESS	4	X052JXWR	I.Pointer to JCTXWRK
28	(1C)	ADDRESS	4	X052JCT	I.Address of JCT
32	(20)	ADDRESS	4	X052JQE	I.Address of JQE
36	(24)	ADDRESS	4	X052AREA	I.Address of JRW
40	(28)	ADDRESS	4	X052STMT	I.Pointer to stmt buffer
44	(2C)	ADDRESS	4	X052STME	IO.Addr 1 byte past end of statement buffer
48	(30)	CHARACTER	8	X052STML	I.Label on statement (JCL)
56	(38)	CHARACTER	8	X052STMV	I.Statement verb
64	(40)	ADDRESS	4	X052RJCP	O.Chain of RJC3s to queue before current statement
68	(44)	ADDRESS	4	X052RJCA	O.Chain of RJC3s to queue after current statement
72	(48)	ADDRESS	4	X052RJCC	O.Chain of RJC3s to queue after current card
76	(4C)	BITSTRING	1	X052FLG1	Statement flag byte
Comment					
Following bits should be the same as RJC3 bits					
End of Comment					
76	(4C)	X'8'	0	X052LOPR	"X002LOPR" I.Last operand is on card
76	(4C)	X'4'	0	X052QUOT	"X002QUOT" I.Unfinished quote at end of card
76	(4C)	X'2'	0	X052CCMT	"X002CCMT" I.Card is a cont comment
76	(4C)	X'1'	0	X052LAST	"X002LAST" I.Last card in statement
77	(4D)	BITSTRING	3		Reserved

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
End of fields common to exits 2, 4, 52, and 54					
-----					
End of Comment					
80	(50)	CHARACTER	8	X052OCLS	O.Override job class
88	(58)	CHARACTER	8	X052OJNM	O.Override job name
88	(58)	X'60'	0	X052SIZE	**"XPL" Size of XPL for Exit 52
Comment					
Exit 53 XPL values					
JOB statement accounting field scan (User env)					
The mappings of exits 3 and 53 are identical.					
End of Comment					
88	(58)	X'35'	0	X053XID	"53" Exit 53 ID
		.... ...1		X053VERN	"X'01" Exit 53 XPL version number
Comment					
Indicator byte equates					
End of Comment					
88	(58)	X'7'	0	X053IND	"XPLIND" Indicator byte
Comment					
Condition byte equates					
End of Comment					
88	(58)	X'8'	0	X053COND	"XPLCOND" Condition byte
Comment					
Response byte equates					
End of Comment					
88	(58)	X'9'	0	X053RESP	"XPLRESP" Response byte
88	(58)	X'80'	0	X053XSEM	"X003XSEM" O.Exit supplied error msg
88	(58)	X'40'	0	X053SKIP	"X003SKIP" O.Skip default accounting field scan
88	(58)	X'20'	0	X053KILL	"X003KILL" O.Kill current job
88	(58)	X'10'	0	X053PLUS	"XPLPLUS" Exit 53 parameter list
16	(10)	ADDRESS	4	X053ACCT	I.Addr of accounting field
20	(14)	ADDRESS	4	X053FLGX	I.For compatibility, ptr to FLAGX. Exits should use X053IND, X053COND and X053RESP instead.
24	(18)	ADDRESS	4	X053JXWR	I.Pointer to JCTXWRK
28	(1C)	SIGNED	4	X053ACTL	I.Leng of accounting field
32	(20)	ADDRESS	4	X053JCT	I.Address of JCT
36	(24)	ADDRESS	4	X053JQE	I.Address of JQE
40	(28)	ADDRESS	4	X053AREA	I.Address of JRW
40	(28)	X'2C'	0	X053SIZE	**"XPL" Size of XPL for Exit 53
44	(2C)	ADDRESS	2	(0)	Ensure XPL for exits 3
44	(2C)	ADDRESS	2	(0)	and 53 are same size

# \$XPL Map

## Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Exit 54 XPL values JCL and JES2 control statement scan (User env) The mapping of fields at the start of exits 2, 4, 52 and 54 are the same. Indicator values may vary based on the exit. The mappings of exits 4 and 54 are identical.					
End of Comment					
44	(2C)	X'36' .... ...1	0	X054XID X054VERN	"54" Exit 54 ID "X'01" Exit 54 XPL version number
Comment					
Indicator byte equates					
End of Comment					
44	(2C)	X'7'	0	X054IND	"XPLIND" Indicator byte
44	(2C)	X'0'	0	X054JCL	"X004JCL" I.JCL card detected
44	(2C)	X'4'	0	X054JECL	"X004JECL" I.JECL card detected
Comment					
Condition byte equates					
End of Comment					
44	(2C)	X'8'	0	X054COND	"XPLCOND" Condition byte
44	(2C)	X'80'	0	X054CONT	"X004CONT" I.Card is a continuation
44	(2C)	X'40'	0	X054JOBP	"X004JOBP" I. JOBPARM card detected
44	(2C)	X'20'	0	X054CMND	"X004CMND" I. \$ command card det
44	(2C)	X'10'	0	X054SEC	"X004SEC" I.Not first time exit has been passed card
44	(2C)	X'1'	0	X054PREJ	"X004PREJ" I.Card encountered outside a job structure
Comment					
Response byte equates					
End of Comment					
44	(2C)	X'9'	0	X054RESP	"XPLRESP" Response byte
44	(2C)	X'80'	0	X054XSNC	"X004XSNC" O.Exit supplied next card
44	(2C)	X'40'	0	X054XSEM	"X004XSEM" O.Exit supplied error msg
44	(2C)	X'20'	0	X054JCMT	"X004JCMT" O.Skip processing card
44	(2C)	X'10'	0	X054KILL	"X004KILL" O.Kill current job
44	(2C)	X'8'	0	X054PURG	"X004PURG" O.Purge current job
44	(2C)	X'4'	0	X054RLOC	"X004RLOC" O.Changed/added cards are not to be sent via NJE (set RJCB3LOC in current RJCB)
44	(2C)	X'10'	0	X054PLUS	"XPLPLUS" Exit 54 parameter list
16	(10)	ADDRESS	4	X054CARD	I.Address card image
20	(14)	ADDRESS	4	X054FLGX	I.For compatibility, ptr to FLAGX. Exits should use X054IND, X054COND and X054RESP instead.
24	(18)	ADDRESS	4	X054JXWR	I.Pointer to JCTXWRK
28	(1C)	ADDRESS	4	X054JCT	I.Address of JCT or zero
32	(20)	ADDRESS	4	X054JQE	I.Address of JQE or zero
36	(24)	ADDRESS	4	X054AREA	I.Address of JRW
40	(28)	ADDRESS	4	X054STMT	I.Pointer to stmt buffer
44	(2C)	ADDRESS	4	X054STME	IO.Addr 1 byte past end of statement buffer
48	(30)	CHARACTER	8	X054STML	I.Label on statement (JCL)
56	(38)	CHARACTER	8	X054STMV	I.Statement verb
64	(40)	ADDRESS	4	X054RJCP	O.Chain of RJCBs to queue before current statement
68	(44)	ADDRESS	4	X054RJCA	O.Chain of RJCBs to queue after current statement
72	(48)	ADDRESS	4	X054RJCC	O.Chain of RJCBs to queue after current card
76	(4C)	BITSTRING	1	X054FLG1	Statement flag byte

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Following bits should be the same as RJCB bits					
End of Comment					
76	(4C)	X'8'	0	X054LOPR	"X004LOPR" I.Last operand is on card
76	(4C)	X'4'	0	X054QUOT	"X004QUOT" I.Unfinished quote at end of card
76	(4C)	X'2'	0	X054CCMT	"X004CCMT" I.Card is a cont comment
76	(4C)	X'1'	0	X054LAST	"X004LAST" I.Last card in statement
77	(4D)	BITSTRING	3		Reserved
Comment					
----- End of fields common to exits 2, 4, 52, and 54 -----					
End of Comment					
80	(50)	BITSTRING	8		Reserved
88	(58)	BITSTRING	8		Reserved
88	(58)	X'60'	0	X054SIZE	**"XPL" Size of XPL for Exit 54
96	(60)	ADDRESS	2	(0)	Ensure XPL for exits 52
96	(60)	ADDRESS	2	(0)	and 54 are same size
96	(60)	ADDRESS	2	(0)	Ensure XPL for exits 4
96	(60)	ADDRESS	2	(0)	and 54 are same size
Comment					
Exit 55 XPL values NJE/TCP SYSOUT reception can never receive					
End of Comment					
96	(60)	.... ...1 X'37'	0	X055VERN X055XID	"X'01" Exit 55 XPL version number "55" Exit 55 id
Comment					
Indicator Byte Equates					
End of Comment					
96	(60)	X'7'	0	X055IND	"XPLIND" Indicator byte
Comment					
Condition Byte Equates					
End of Comment					
96	(60)	X'8'	0	X055COND	"XPLCOND" Condition byte
Comment					
Response Byte Equates					
End of Comment					
96	(60)	X'9'	0	X055RESP	"XPLRESP" Response byte
96	(60)	X'80'	0	X055RECV	"XPLREB0" Allow data set receive
96	(60)	X'10'	0	X055PLUS	"XPLPLUS" Exit 55 parm list additions
16	(10)	ADDRESS	4	X055PDDB	PDDB address
20	(14)	ADDRESS	4	X055JCT	JCT address
24	(18)	ADDRESS	4	X055NDH	Data set header address
28	(1C)	ADDRESS	4	X055AREA	SRW address
28	(1C)	X'20'	0	X055SIZE	**"XPL" Length of Exit 55 parm list

## \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Exit 56 XPL values NJE/TCP header transmit					
End of Comment					
28	(1C)	.... ...1 X'38'	0	X056VERN X056XID	"X'01" Exit 56 XPL version number "56" Exit 56 id
Comment					
Indicator byte equates					
End of Comment					
28	(1C)	X'7'	0	X056IND	"XPLIND" Indicator byte
		1... ....		X056HDR	"B'10000000" Job Header call
		.1.. ....		X056TRL	"B'01000000" Job Trailer call
		..1. ....		X056DSH	"B'00100000" Data Set Header call
		...1 ....		X056RCCS	"B'00010000" RCCS Data Set Header call
Comment					
Condition byte equates					
End of Comment					
28	(1C)	X'8'	0	X056COND	"XPLCOND" Condition byte
28	(1C)	X'80'	0	X056R1ST	"XPLCOB0" This RCCS header precedes the first data record
Comment					
Response byte equates					
End of Comment					
28	(1C)	X'9'	0	X056RESP	"XPLRESP" Response byte
28	(1C)	X'80'	0	X056TERM	"XPLREB0" Terminate this transmission
28	(1C)	X'40'	0	X056BYP	"XPLREB1" Bypass sending Hdr/Trlr
		..11 1111		X056INV	"B'00111111" Invalid response bit map
28	(1C)	X'10'	0	X056PLUS	"XPLPLUS" Exit 56 parameter list
16	(10)	ADDRESS	4	X056HADR	Address of Header/Trailer
20	(14)	ADDRESS	4		Unused (see exit 46)
24	(18)	ADDRESS	4	X056JQE	Address of JQE
28	(1C)	ADDRESS	4	X056JCT	Address of JCT
32	(20)	ADDRESS	4	X056PDDB	Address of PDDB (SYSOUT)
36	(24)	ADDRESS	4	X056JOA	Address of JOA (SYSOUT)
40	(28)	ADDRESS	4	X056AREA	Address of work area
40	(28)	X'2C'	0	X056SIZE	**XPL" Length of Exit 56 XPL
40	(28)	X'24'	0	X056JOE	"X056JOA" Equate for work JOE.
Comment					
Exit 57 XPL values NJE/TCP header receive					
End of Comment					
40	(28)	.... ...1 X'39'	0	X057VERN X057XID	"X'01" Exit 57 XPL version number "57" Exit 57 id
Comment					
Indicator byte equates					
End of Comment					
40	(28)	X'7'	0	X057IND	"XPLIND" Indicator byte

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1... ....		X057HDR	"B'10000000" Job Header call
		.1... ....		X057TRL	"B'01000000" Job Trailer call
		..1. ....		X057DSH	"B'00100000" Data Set Header call
		...1 ....		X057RCCS	"B'00010000" RCCS Data Set Header call
		.... 1...		X057BJQE	"B'00001000" JQE address in X057JQE is not a real JQE; don't use as input to \$DOGJQE
Comment					
Condition byte equates					
End of Comment					
40	(28)	X'8'	0	X057COND	"XPLCOND" Condition byte
Comment					
Response byte equates					
End of Comment					
40	(28)	X'9'	0	X057RESP	"XPLRESP" Response byte
40	(28)	X'80'	0	X057TERM	"XPLREB0" Terminate this reception
		.111 1111		X057INV	"B'01111111" Invalid response bit map
40	(28)	X'10'	0	X057PLUS	"XPLPLUS" Exit 57 parameter list
16	(10)	ADDRESS	4	X057HADR	Address of Header/Trailer
20	(14)	ADDRESS	4	X057JCT	Address of JCT
24	(18)	ADDRESS	4	X057JQE	Address of JQE; see description of related bit X057BJQE in flag X057IND
28	(1C)	ADDRESS	4		Unused (see exit 47)
32	(20)	ADDRESS	4	X057PDDB	Address of PDDB slot
36	(24)	ADDRESS	4	X057AREA	Address of work area
36	(24)	X'28'	0	X057SIZE	** -XPL" Length of Exit 57 XPL
Comment					
Exit 58 XPL values					
End of step SSI					
End of Comment					
36	(24)	.... ...1 X'3A'	0	X058VERN X058XID	"X'01" Exit 58 XPL version number "58" Exit 58 id
Comment					
Indicator byte equates					
End of Comment					
36	(24)	X'7'	0	X058IND	"XPLIND" Indicator byte
Comment					
Condition byte equates					
End of Comment					
36	(24)	X'8'	0	X058COND	"XPLCOND" Condition byte
36	(24)	X'80'	0	X058STAB	"XPLCOB0" Step ABENDED
Comment					
Response byte equates					
End of Comment					
36	(24)	X'9'	0	X058RESP	"XPLRESP" Response byte
36	(24)	X'80'	0	X058SRST	"XPLREB0" Restart job after this step
36	(24)	X'40'	0	X058SRSH	"XPLREB1" Hold job after restart

## \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
36	(24)	X'10'	0	X058PLUS	"XPLPLUS" Exit 58 parameter list
16	(10)	ADDRESS	4	X058SJB	Address of SJB
20	(14)	ADDRESS	4	X058JCT	Address of JCT
24	(18)	CHARACTER	8	X058PSN	Name on EXEC PGM=
32	(20)	CHARACTER	8	X058PSS	Name on EXEC PROC=
40	(28)	SIGNED	2		Reserved
42	(2A)	SIGNED	2	X058STPC	Step completion code
44	(2C)	SIGNED	4	X058STPA	Step ABEND code
44	(2C)	X'30'	0	X058SIZE	**"XPL" Length of Exit 58 XPL
Comment					
Exit 59 XPL values					
Post Interpreter exit					
Note that this maps the same as the exit 6 XPL					
End of Comment					
44	(2C)	X'3B'	0	X059VERN	"X'01" Exit 59 XPL version number
		.... ...1		X059XID	"59" Exit 59 id
Comment					
Indicator byte equates					
End of Comment					
44	(2C)	X'7'	0	X059IND	"XPLIND" Indicator byte
Comment					
Condition byte equates					
End of Comment					
44	(2C)	X'8'	0	X059COND	"XPLCOND" Condition byte
44	(2C)	X'80'	0	X059FAIL	"XPLCOB0" Interpreter failed flag
Comment					
Response byte equates					
End of Comment					
44	(2C)	X'9'	0	X059RESP	"XPLRESP" Response byte
44	(2C)	X'10'	0	X059PLUS	"XPLPLUS" Exit 59 parameter list
16	(10)	ADDRESS	4	X059WORK	16 byte work area address
20	(14)	ADDRESS	4	X059IRET	Address of interpreter RC
24	(18)	ADDRESS	4	X059CNVW	JES2 DTE work area address
28	(1C)	ADDRESS	4	X059JCT	JCT address
32	(20)	SIGNED	4		Reserved (mapped to exit 6)
36	(24)	ADDRESS	4	X059CIW	CIWORK data area address
36	(24)	X'28'	0	X059SIZE	**"XPL" Length of Exit 59 XPL



\$XPL Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
XPL	0		X002JXWR	18	
XPLBLEN	C	10	X002KILL	34	10
XPLCOB0	8	80	X002LAST	4C	1
XPLCOB1	8	40	X002LOPR	4C	8
XPLCOB2	8	20	X002OCLS	50	
XPLCOB3	8	10	X002OJNM	58	
XPLCOB4	8	8	X002PLUS	34	10
XPLCOB5	8	4	X002PURG	34	8
XPLCOB6	8	2	X002QUOT	4C	4
XPLCOB7	8	1	X002RESP	34	9
XPLCOND	8		X002RJCA	44	
XPLEXLEV	6		X002RJCC	48	
XPLID	0	5BE7D7D3	X002RJCP	40	
XPLIND	7		X002RLOC	34	4
XPLLEVEL	4		X002SEC	34	10
XPLPLUS	10		X002SIZE	58	60
XPLREB0	9	80	X002STME	2C	
XPLREB1	9	40	X002STML	30	
XPLREB2	9	20	X002STMT	28	
XPLREB3	9	10	X002STMV	38	
XPLREB4	9	8	X002VERN	34	2
XPLREB5	9	4	X002XID	34	2
XPLREB6	9	2	X002XSEM	34	40
XPLREB7	9	1	X002XSNC	34	80
XPLRESP	9		X003ACCT	10	
XPLSIZE	A		X003ACTL	1C	
XPLVERN	4	1	X003AREA	28	
XPLXITID	5		X003COND	58	8
X001COND	10	8	X003FLGX	14	
X001DCT	10		X003IND	58	7
X001DFSP	10	80	X003JCT	20	
X001DSCT	18		X003JQE	24	
X001HBUF	34		X003JXWR	18	
X001IND	10	7	X003KILL	58	20
X001JCNT	10	20	X003PLUS	58	10
X001JCT	14		X003RESP	58	9
X001JHDR	10	80	X003SIZE	28	2C
X001JNWS	10	40	X003SKIP	58	40
X001JOA	20		X003VERN	58	1
X001JQE	1C		X003XID	58	3
X001JTLR	10	40	X003XSEM	58	80
X001NSWB	30		X004AREA	24	
X001PDDB	28		X004CARD	10	
X001PLUS	10	10	X004CCMT	4C	2
X001RESP	10	9	X004CMND	28	20
X001RSVD	32		X004COND	28	8
X001SIZE	34	38	X004CONT	28	80
X001SWBT	2C		X004FLGX	14	
X001VERN	10	1	X004FLG1	4C	
X001WJOE	34	20	X004IND	28	7
X001XID	10	1	X004JCL	28	0
X002AREA	24		X004JCMT	28	20
X002CARD	10		X004JCT	1C	
X002CCMT	4C	2	X004JECL	28	4
X002COND	34	8	X004JOBP	28	40
X002CONT	34	80	X004JQE	20	
X002FLGX	14		X004JXWR	18	
X002FLG1	4C		X004KILL	28	10
X002IND	34	7	X004LAST	4C	1
X002JCMT	34	20	X004LOPR	4C	8
X002JCT	1C		X004PLUS	28	10
X002JOBBC	34	8	X004PREJ	28	1
X002JQE	20		X004PURG	28	8

## \$XPL Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
X004QUOT	4C	4	X009DLIN	30	
X004RESP	28	9	X009DPAG	38	
X004RJCA	44		X009DUMP	10	2
X004RJCC	48		X009IND	10	7
X004RJCP	40		X009INDX	10	F
X004RLOC	28	4	X009JCT	10	
X004SEC	28	10	X009LEXC	10	40
X004SIZE	58	60	X009LVAL	14	
X004STME	2C		X009OLIR	10	40
X004STML	30		X009PEXC	10	20
X004STMT	28		X009PINC	24	
X004STMV	38		X009PLUS	10	10
X004VERN	28	1	X009PVAL	18	
X004XID	28	4	X009RESO	10	3
X004XSEM	28	40	X009RESP	10	9
X004XSNC	28	80	X009RESX	10	E0
X006CEND	60	4	X009RINC	20	
X006CIW	24		X009SDEM	10	20
X006CNMB	20		X009SIZE	48	48
X006CNVW	18		X009USER	10	8
X006COND	60	8	X009USRB	10	10
X006CRET	14		X009VERN	10	2
X006IND	60	7	X009WARN	10	1
X006ITXT	14		X009XID	10	9
X006JCT	1C		X009XOVR	10	80
X006PLUS	60	10	X009722D	10	2
X006RESP	60	9	X009722N	10	1
X006SIZE	24	28	X015BYP	48	80
X006TEXT	60	0	X015CCWT	38	
X006VERN	60	1	X015CGCT	48	
X006WORK	10		X015COND	48	8
X006XID	60	6	X015CPGP	44	
X007CBID	10		X015CPRT	40	
X007CBIN	24	10	X015DCT	10	
X007CBUN	24	20	X015DSCT	18	
X007CBWR	24	40	X015DSEL	48	80
X007COND	24	8	X015DSEP	48	40
X007IND	24	7	X015IND	48	7
X007IOER	24	80	X015JCT	14	
X007PLUS	24	10	X015JOA	20	
X007RESP	24	9	X015JQE	1C	
X007SIZE	10	14	X015NCOP	3C	
X007VERN	24	1	X015NSWB	30	
X007XID	24	7	X015PDDB	28	
X008CBID	10		X015PLUS	48	10
X008CBIN	10	10	X015PRTR	34	
X008CBUN	10	20	X015RESP	48	9
X008CBWR	10	40	X015RFSW	48	80
X008COND	10	8	X015RSVD	32	
X008FSSM	10	8	X015SEPP	48	40
X008IND	10	7	X015SIZE	48	4C
X008IOER	10	80	X015SWBT	2C	
X008PLUS	10	10	X015VERN	48	1
X008RESP	10	9	X015WJOE	48	20
X008SIZE	10	14	X015XID	48	F
X008VERN	10	1	X020AREA	1C	
X008XID	10	8	X020AVF	48	10
X009BEXC	10	10	X020BSAF	48	20
X009BINC	28		X020COND	48	8
X009BVAL	1C		X020DCT	18	
X009CEXC	10	80	X020FLG1	21	
X009CNCL	10	4	X020GJOB	48	80
X009COND	10	8	X020IND	48	7
X009CONX	10	F0	X020JCLS	38	
X009DBYT	40		X020JCT	10	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
X020JECL	48	40	X031SIZE	24	28
X020JQE	14		X031SJB	18	
X020NEXT	40		X031SYIN	10	8
X020NORM	48	80	X031SYSO	10	C
X020OUTP	48	40	X031UNK	10	18
X020PLUS	48	10	X031VERN	16	1
X020PRIO	20		X031XID	16	1F
X020PURG	48	20	X036BYPS	24	1
X020RESP	48	9	X036COND	24	8
X020SAF	24		X036IND	24	7
X020SENV	28		X036JES2	24	80
X020SIZE	44	44	X036NORC	24	2
X020VERN	48	2	X036PARM	10	
X020WSEL	48	10	X036PLUS	24	10
X020XID	48	14	X036RCBA	1C	
X020XNOD	22		X036RCBN	18	
X0201ARM	21	80	X036RESP	24	9
X0201IND	21	40	X036RETC	20	
X022COND	44	8	X036RSNC	24	
X022FRST	44	0	X036SIZE	24	28
X022IND	44	7	X036USER	24	40
X022IOER	44	80	X036VERN	24	1
X022MURE	44	4	X036WAVE	14	
X022MUST	44	8	X036XID	24	24
X022PLUS	44	10	X037COND	24	8
X022RESP	44	9	X037IND	24	7
X022SIZE	14	18	X037JES2	24	80
X022STAA	14		X037NORC	24	2
X022STAC	10		X037PARM	10	
X022VERN	44	1	X037PLUS	24	10
X022XID	44	16	X037RCBA	1C	
X024ALLS	14	10	X037RCBN	18	
X024COFM	14	1	X037RESP	24	9
X024COLD	14	4	X037RETC	20	
X024COND	14	8	X037RSNC	24	
X024ESYS	14	8	X037SIZE	24	28
X024HOT	14	40	X037USER	24	40
X024IND	14	7	X037VERN	24	1
X024IPL	14	2	X037WAVE	14	
X024PLUS	14	10	X037XID	24	25
X024QCK	14	20	X038COND	24	8
X024RESP	14	9	X038IND	24	7
X024RSSI	14	80	X038JOA	14	
X024SIZE	16	18	X038JOE	14	14
X024SSIA	10		X038KEEP	24	80
X024SSIL	16		X038PLUS	24	10
X024SSWL	14		X038PSO	10	
X024VERN	14	1	X038RESP	24	9
X024WARM	14	80	X038SIZE	14	18
X024XID	14	18	X038VERN	24	1
X031COND	16	8	X038XID	24	26
X031DSTY	10		X039AREA	1C	
X031ERR	16	1	X039COND	14	8
X031FAIL	16	1	X039IND	14	7
X031IND	16	7	X039JCT	14	
X031INTR	10	0	X039NDH	18	
X031IOT	24		X039PDDB	10	
X031JFCB	1C		X039PLUS	14	10
X031JSNW	10	4	X039RECV	14	80
X031PDDB	20		X039RESP	14	9
X031PLUS	16	10	X039SIZE	1C	20
X031PSPI	10	10	X039VERN	14	1
X031RESP	16	9	X039XID	14	27
X031SDB	14		X040COND	1C	8
X031SDSB	10	14	X040DSCT	1C	

## \$XPL Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
X040IND	1C	7	X043SIZE	14	18
X040JCT	18		X043SJB	10	
X040JQE	14		X043TPS	2E	80
X040NSPN	1C	40	X043TPT	2E	40
X040PDDB	10		X043VERN	2E	1
X040PLUS	1C	10	X043XID	2E	2B
X040RESP	1C	9	X044CNVQ	14	20
X040RFNT	1C	80	X044CNWT	14	20
X040RNNT	1C	40	X044COND	14	8
X040SIZE	20	34	X044CPER	14	8
X040SPIN	1C	80	X044DLGN	14	80
X040UNSP	1C	20	X044FKOF	14	40
X040VERN	1C	1	X044IND	14	7
X040VTXT	20		X044JCLE	14	4
X040XID	1C	28	X044JCLO	14	0
X041COND	20	8	X044JCT	10	
X041DEFN	14		X044JQE	14	
X041GGKT	10		X044OUTQ	14	80
X041IND	20	7	X044PLUS	14	10
X041JDVT	18		X044PURQ	14	40
X041PLUS	20	10	X044RESP	14	9
X041RESP	20	9	X044SIZE	14	18
X041RSVN	16	18	X044VERN	14	2
X041SIZE	18	20	X044XID	14	2C
X041TOTN	16		X045CANC	14	80
X041VERN	20	1	X045CART	40	
X041XID	20	29	X045CKEY	20	
X042CANC	18	80	X045CNID	48	
X042CKEY	2C		X045COND	14	8
X042COND	18	8	X045DEST	21	80
X042DERR	18	2	X045ERAD	50	
X042EMSG	18	40	X045ERLN	56	
X042EXTE	18	10	X045EXTE	14	10
X042IND	18	7	X045FLG1	21	
X042MAIN	18	1	X045GRPN	34	
X042MEMB	2D		X045GRP1	3C	
X042MEMC	18	2	X045GRP2	3E	
X042MSGC	18	4	X045IND	14	7
X042NEWM	28		X045INVF	14	4
X042NEWN	14		X045INVI	14	2
X042NEWWR	16		X045JBID	2C	
X042NEWU	20		X045JBNM	24	
X042NOAU	18	8	X045JESD	14	40
X042NOCH	18	20	X045JSSP	21	20
X042NOXT	18	20	X045MDAD	4C	
X042NWML	18		X045MDLN	54	
X042PLUS	18	10	X045NOAU	14	8
X042RC	1C		X045NOXT	14	20
X042REAS	1A		X045PCED	14	80
X042RESP	18	9	X045PLUS	14	10
X042RMCH	18	10	X045RC	1C	
X042SETR	18	40	X045REAS	1A	
X042SIZE	2E	30	X045RESP	14	9
X042SNUA	10		X045RSVD	18	
X042UERR	18	4	X045SECL	21	40
X042UNTK	18	80	X045SETR	14	40
X042USCH	18	8	X045SFRB	14	
X042VERN	18	2	X045SIZE	56	58
X042XID	18	2A	X045SSFA	10	
X043CHG	2E	20	X045VERN	14	2
X043COND	2E	8	X045XID	14	2D
X043IND	2E	7	X046AREA	28	
X043JCT	14		X046BYP	56	40
X043PLUS	2E	10	X046COND	56	8
X043RESP	2E	9	X046DCT	14	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
X046DSH	56	20	X050JECL	14	40
X046HADR	10		X050JQE	14	
X046HDR	56	80	X050NEXT	40	
X046IND	56	7	X050NORM	14	80
X046INV	56	3F	X050OUTP	14	40
X046JCT	1C		X050PLUS	14	10
X046JOA	24		X050PRIO	20	
X046JOE	28	24	X050PURG	14	20
X046JQE	18		X050RESP	14	9
X046PDDB	20		X050SAF	24	
X046PLUS	56	10	X050SENV	28	
X046RCCS	56	10	X050SIZE	44	44
X046RESP	56	9	X050VERN	14	1
X046R1ST	56	80	X050WSEL	14	10
X046SIZE	28	2C	X050XID	14	32
X046TERM	56	80	X050XNOD	22	
X046TRL	56	40	X0501ARM	21	80
X046VERN	56	2	X0501IND	21	40
X046XID	56	2E	X051COND	44	8
X047AREA	24		X051FLG1	38	
X047BJQE	28	8	X051IND	44	7
X047COND	28	8	X051JCT	14	
X047DCT	1C		X051JOB	1C	
X047DSH	28	20	X051JQA	10	
X047HADR	10		X051NEWQ	1A	
X047HDR	28	80	X051NEWT	1B	
X047IND	28	7	X051NOCH	44	40
X047INV	28	7F	X051OLDQ	18	
X047JCT	14		X051OLDT	19	
X047JQE	18		X051PLUS	44	10
X047PDDB	20		X051QCNV	39	2
X047PLUS	28	10	X051QHRD	39	9
X047RCCS	28	10	X051QINP	39	1
X047RESP	28	9	X051QNUM	39	A
X047SIZE	24	28	X051QOUT	39	8
X047TERM	28	80	X051QPUR	39	A
X047TRL	28	40	X051QRCV	39	7
X047VERN	28	2	X051QSET	39	3
X047XID	28	2F	X051QSPN	39	5
X049COND	24	8	X051QXEQ	39	4
X049IND	24	7	X051QXMT	39	6
X049INV	24	1F	X051RBLD	44	80
X049JQE	10		X051RESP	44	9
X049NDUP	24	20	X051RQUE	44	40
X049NOPT	24	40	X051RXEQ	44	80
X049NORM	24	0	X051SAF	34	
X049PLUS	24	10	X051SENV	24	
X049QGT	14		X051SIZE	39	3C
X049RESP	24	9	X051VERN	44	1
X049SIZE	14	18	X051XID	44	33
X049SJOB	24	4	X0511IND	38	40
X049SJSE	24	8	X052AREA	24	
X049SKIP	24	80	X052CARD	10	
X049VERN	24	1	X052CCMT	4C	2
X049XID	24	31	X052COND	39	8
X050AREA	1C		X052CONT	39	80
X050AVF	14	10	X052FLGX	14	
X050BSAF	14	20	X052FLG1	4C	
X050COND	14	8	X052IND	39	7
X050DCT	18		X052JCMT	39	20
X050FLG1	21		X052JCT	1C	
X050GJOB	14	80	X052JOB	39	8
X050IND	14	7	X052JQE	20	
X050JCLS	38		X052JXWR	18	
X050JCT	10		X052KILL	39	10

## \$XPL Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
X052LAST	4C	1	X054RJCP	40	
X052LOPR	4C	8	X054RLOC	2C	4
X052OCLS	50		X054SEC	2C	10
X052OJNM	58		X054SIZE	58	60
X052PLUS	39	10	X054STME	2C	
X052PURG	39	8	X054STML	30	
X052QUOT	4C	4	X054STMT	28	
X052RESP	39	9	X054STMV	38	
X052RJCA	44		X054VERN	2C	1
X052RJCC	48		X054XID	2C	36
X052RJCP	40		X054XSEM	2C	40
X052RLOC	39	4	X054XSNC	2C	80
X052SEC	39	10	X055AREA	1C	
X052SIZE	58	60	X055COND	60	8
X052STME	2C		X055IND	60	7
X052STML	30		X055JCT	14	
X052STMT	28		X055NDH	18	
X052STMV	38		X055PDDB	10	
X052VERN	39	2	X055PLUS	60	10
X052XID	39	34	X055RECV	60	80
X052XSEM	39	40	X055RESP	60	9
X052XSNC	39	80	X055SIZE	1C	20
X053ACCT	10		X055VERN	60	1
X053ACTL	1C		X055XID	60	37
X053AREA	28		X056AREA	28	
X053COND	58	8	X056BYP	1C	40
X053FLGX	14		X056COND	1C	8
X053IND	58	7	X056DSH	1C	20
X053JCT	20		X056HADR	10	
X053JQE	24		X056HDR	1C	80
X053JXWR	18		X056IND	1C	7
X053KILL	58	20	X056INV	1C	3F
X053PLUS	58	10	X056JCT	1C	
X053RESP	58	9	X056JOA	24	
X053SIZE	28	2C	X056JOE	28	24
X053SKIP	58	40	X056JQE	18	
X053VERN	58	1	X056PDDB	20	
X053XID	58	35	X056PLUS	1C	10
X053XSEM	58	80	X056RCCS	1C	10
X054AREA	24		X056RESP	1C	9
X054CARD	10		X056R1ST	1C	80
X054CCMT	4C	2	X056SIZE	28	2C
X054CMND	2C	20	X056TERM	1C	80
X054COND	2C	8	X056TRL	1C	40
X054CONT	2C	80	X056VERN	1C	1
X054FLGX	14		X056XID	1C	38
X054FLG1	4C		X057AREA	24	
X054IND	2C	7	X057BJQE	28	8
X054JCL	2C	0	X057COND	28	8
X054JCMT	2C	20	X057DSH	28	20
X054JCT	1C		X057HADR	10	
X054JECL	2C	4	X057HDR	28	80
X054JOBP	2C	40	X057IND	28	7
X054JQE	20		X057INV	28	7F
X054JXWR	18		X057JCT	14	
X054KILL	2C	10	X057JQE	18	
X054LAST	4C	1	X057PDDB	20	
X054LOPR	4C	8	X057PLUS	28	10
X054PLUS	2C	10	X057RCCS	28	10
X054PREJ	2C	1	X057RESP	28	9
X054PURG	2C	8	X057SIZE	24	28
X054QUOT	4C	4	X057TERM	28	80
X054RESP	2C	9	X057TRL	28	40
X054RJCA	44		X057VERN	28	1
X054RJCC	48		X057XID	28	39

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
X058COND	24	8
X058IND	24	7
X058JCT	14	
X058PLUS	24	10
X058PSN	18	
X058PSS	20	
X058RESP	24	9
X058SIZE	2C	30
X058SJB	10	
X058SRSH	24	40
X058SRST	24	80
X058STAB	24	80
X058STPA	2C	
X058STPC	2A	
X058VERN	24	1
X058XID	24	3A
X059CIW	24	
X059CNVW	18	
X059COND	2C	8
X059FAIL	2C	80
X059IND	2C	7
X059IRET	14	
X059JCT	1C	
X059PLUS	2C	10
X059RESP	2C	9
X059SIZE	24	28
X059VERN	2C	1
X059WORK	10	
X059XID	2C	3B

## \$XPL Cross Reference



## \$XPWORK Information

### \$XPWORK Heading Information

**Common Name:** HASP Coupling PCE Work Area  
**Macro ID:** \$XPWORK  
**DSECT Name:** PCE (\$XPWORK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4

**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE

**Size:** See symbol XPWPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.

**Created by:** See \$PCE  
**Pointed to by:** The \$XCFPCE field of the \$HCT data area. See \$PCE for other pointer fields that apply to all PCE types.

**Serialization:** Normal PCE dispatch serialization

**Function:** The fields in this work area are used by a JES2 coupling processor. \$XPWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$XPWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEXCfid in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

### \$XPWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP COUPLING PROCESSOR
312	(138)	SIGNED	4		Reserved
316	(13C)	BITSTRING	1		Reserved
317	(13D)	BITSTRING	1	XPWFLAG2	Recovery processing flag
		1... ....		XPW2ACTV	"B'10000000" PCE active
		.1.. ....		XPW2RCVY	"B'01000000" Recovery active
		..1. ....		XPW2REC1	"B'00100000" Once through recovery
318	(13E)	BITSTRING	2		Reserved for IBM use
320	(140)	ADDRESS	4	XPWNFRQH	Head/Tail of notification
324	(144)	ADDRESS	4	XPWNFRQT	exit requests
328	(148)	ADDRESS	4	XPWNFXIT	Notification exit chain
332	(14C)	BITSTRING	12	XPWSTQE	\$STIMER queue element
344	(158)	SIGNED	4		Reserved for IBM use
348	(15C)	SIGNED	4		Reserved for IBM use
352	(160)	SIGNED	4		Reserved for IBM use
352	(160)	X'2C'	0	XPWPCEWL	**"PCEWORK" LENGTH OF PCE WORK AREA

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	XNFELEM	
0	(0)	CHARACTER	4	XNFEYE	Eyecatcher

## \$XPWORK Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	SIGNED	4	XNFSPLEN	Length and subpool id
4	(4)	X'4'	0	XNFSUBP	"XNFSPLEN,1" Subpool number
4	(4)	X'5'	0	XNFLEN	"XNFSPLEN+1,3" Length
8	(8)	ADDRESS	4	XNFRQNXT	\$FIFOENQ chaining
12	(C)	ADDRESS	4	XNFRQPRV	pointers
12	(C)	X'8'	0	XNFXITNX	"XNFRQNXT,L'XNFRQNXT" Exit chaining pointer
16	(10)	BITSTRING	4	XNFRQECB	Request ECB (internal)
20	(14)	BITSTRING	1	XNFRQTYP	Request type (see \$MSTNTFY parameter list)
21	(15)	BITSTRING	1	XNFFLAG	Options
		1... ....		XNFFSUBT	"B'10000000" Subtask environ caller
		.1.. ....		XNFFJES2	"B'01000000" JES2 main task caller
22	(16)	BITSTRING	2		Reserved
24	(18)	ADDRESS	4	XNFECBAD	ECB address (caller's ECB)
28	(1C)	ADDRESS	4	XNFPGMAD	EXITPGM address
32	(20)	ADDRESS	4	XNFPRM	EXITPRM
36	(24)	SIGNED	4	XNFXITID	Notification EXITID
40	(28)	DBL WORD	8	(0)	Align to doubleword
40	(28)	X'28'	0	XNFELMLN	"*-XNFELEM" Length of element

## \$XPWORK Cross Reference

Name	Hex Offset	Hex Value
PCE	0	
XNFECBAD	18	
XNFELEM	0	
XNFELMLN	28	28
XNFEYE	0	
XNFFJES2	15	40
XNFFLAG	15	
XNFFSUBT	15	80
XNFLEN	4	5
XNFPGMAD	1C	
XNFPRM	20	
XNFRQECB	10	
XNFRQNXT	8	
XNFRQPRV	C	
XNFRQTYP	14	
XNFSPLEN	4	
XNFSUBP	4	4
XNFXITID	24	
XNFXITNX	C	8
XPWFLAG2	13D	
XPWNFRQH	140	
XPWNFRQT	144	
XPWNFXIT	148	
XPWPCEWL	160	2C
XPWSTQE	14C	
XPW2ACTV	13D	80
XPW2RCVY	13D	40
XPW2REC1	13D	20

## \$XREQ Information

### \$XREQ Heading Information

**Common Name:** XCF Information Request Message  
**Macro ID:** \$XREQ  
**DSECT Name:** XREQ  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** XREQ  
 Offset: XREQID-XREQ  
 Length: L'XREQID  
**Storage Attributes:** Subpool: 0  
 Key: 1  
 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.  
**Size:** See XREQLEN  
**Created by:** HASPXCF  
**Pointed to by:** XCMXBUFA field of the \$XCMWORK data area  
 XCMACKPT field of the \$XCMWORK data area  
 Expanded in line in HASPIRDA  
**Serialization:** Normal PCE dispatch serialization  
**Function:** The XREQ DSECT maps requests and responses sent between members of a MAS. The intent is that the information requested is easily obtainable without a \$WAIT.

XREQ requests are sent via JESXCF to the default mailbox. These requests are processed by the JES2 XCF PCE. All data needed to respond to the request must be available without a \$WAIT (since the XCF PCE should never \$WAIT).

The mapping consists of a fixed length base section which describes the request/response. This is followed by a variable length data area which qualifies the request or contains the response.

### \$XREQ Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	XREQ	Start of message header
0	(0)	CHARACTER	4	XREQID	Buffer identifier
4	(4)	ADDRESS	1	XREQVER	Version number
4	(4)	X'1'	0	XREQVERN	"1" Current version
5	(5)	CHARACTER	1	XREQTYPE	Message type
5	(5)	X'D9'	0	XREQMSG	"C'R" Request message type
5	(5)	X'C1'	0	XREQRESP	"C'A" Response message type
6	(6)	ADDRESS	1	XREQINFO	Info requested (max 254)

## \$XREQ Map

### Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
Main JES2 XCF intermember command request types					
Mailbox: SYSJESXCF\$CMD					
Address space name: JES2					
JESXCF group: \$XCFCGPNM					
-----					
End of Comment					
6	(6)	X'1'	0	XREQSCAN	"1" Process \$SCAN request
6	(6)	X'2'	0	XREQSTAT	"2" Update status request
6	(6)	X'3'	0	XREQJOE	"3" Update JWEL/TJEV status
6	(6)	X'4'	0	XREQPJOE	"4" Post JOE without clearing JWELS
6	(6)	X'5'	0	XREQPXEQ	"5" \$POSTXEQ
6	(6)	X'6'	0	XREQRLOG	"6" \$RBLDLOG SYSLOG chain rebuild
6	(6)	X'7'	0	XREQSPIN	"7" SPIN-ANY support
6	(6)	X'8'	0	XREQJQSP	"8" JQA spinnable update
6	(6)	X'9'	0	XREQDCLS	"9" Process JOBCLASS or JOBCLASS GROUP delete
6	(6)	X'A'	0	XREQJMOD	"10" Process Job Modify SSI rq
Comment					
-----					
Main JES2 XCF intermember command request types					
Mailbox: SYSJES2MIGR\$ASST					
Address space name: JES2					
JESXCF group: \$XCFCGPNM					
Also					
Main JES2 XCF intermember command response types					
Mailbox: SYSJES2MG\$VOLSER					
Address space name: JES2					
JESXCF group: \$XCFCGPNM					
-----					
End of Comment					
6	(6)	X'1'	0	XREQPHA1	"1" Start phase 1
6	(6)	X'2'	0	XREQPHA2	"2" Start phase 2
6	(6)	X'3'	0	XREQCNCL	"3" Cancel migration
6	(6)	X'4'	0	XREQSTAU	"4" Migration status
6	(6)	X'5'	0	XREQEND	"5" Successful migration end
Comment					
-----					
Main JES2 XCF intermember command request types					
Mailbox: SYSJES2RN\$VOLSER					
Address space name: JES2					
JESXCF group: \$XCFCGPNM					
SPOOL migration mailbox:					
Runtime sends "IO permission" requests to migrator					
via this mailbox.					
Created by migrator subtask. One per migration.					
-----					
End of Comment					
6	(6)	X'1'	0	XREQIOPE	"1" IO permission message

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
Multi-system data retrieval request types					
Mailbox: SYSJES\$XSYSBUF					
Address space name: JES2 AUX subtask					
JESXCF group: SYSJ2\$XD					
-----					
End of Comment					
6	(6)	X'1'	0	XREQXBUF	"1" Retrieve instorage HDB (use PROTSRB service)
6	(6)	X'2'	0	XREQITDT	"2" Retrieve initiator data (initiator SSI)
6	(6)	X'3'	0	XREQMGSW	"3" Migrator switch (spool migration)
7	(7)	BITSTRING	1		Reserved
8	(8)	ADDRESS	4	XREQTOKN	Token passed from request to response
12	(C)	ADDRESS	4	XREQFRC	Function return code
16	(10)	SIGNED	4	(2)	Reserved
24	(18)	SIGNED	4	XREQDATO	Offset to data (XREQDATA)
28	(1C)	SIGNED	4	XREQLEN	Data length (no prefix)
32	(20)	BITSTRING	80		Reserved for future use
112	(70)	DBL WORD	8	(0)	Alignment
112	(70)	X'70'	0	XREQBASE	**XREQ" Length of base section

Comment

-----

Data area. The contents of the data area depends on the information requested (XREQINFO).

-----

End of Comment					
112	(70)	DBL WORD	8	XREQDATA (0)	Start of data area

Comment

Issue \$SCAN request (XREQINFO = 1)

This request passes as input a series of SCAN processable statements seperated by a X'15'. The first blank delimited word in the request is an action type (this determines the values used for SCAN= and CALLER= for the \$SCAN REQUEST). This is processed on the receiving side by calling \$SCAN for each X'15' delimited statement. A caller ID of IRPL is used and the output of the \$SCAN call is returned to the caller. For each high level SCANTAB processed, a logical line of output is returned. Each logical line will be seperated by a X'15'. The logical line is valid input to a \$SCAN set call. If there is an error on the \$SCAN call, the HASP003 message is returned (with the message id).

Valid action types are:

\$D - Display command

## \$XREQ Map

### Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
\$DSHORT - Short display command \$T - Set command \$\$ - Start command \$P - Purge command \$E - Reset command \$ADD - Add command \$DEL - Delete command Example: Sending buffer (? = X'15' in example) \$D CKPTDEF MODE ?\$D SPOOLDEF VOLUME Response CKPTDEF MODE=DUAL ?SPOOLDEF VOLUME=SPOL1 ?					
End of Comment					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	1	XRESCAST (0)	SCAN input for INIT STMT
112	(70)	SIGNED	4	XRESCARC	Highest RC from \$SCAN
116	(74)	SIGNED	4		Reserved
120	(78)	CHARACTER	1	XRESCADA (0)	Start of returned data
Comment					
Update status request (XREQINFO = 2) This request passes updated status information to all members. There is no response data.					
End of Comment					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	8	XRESTNAM	JES2 member name
128	(80)	DBL WORD	8	XRESTTIM	Time of last CKPT access
136	(88)	SIGNED	4	XREAHOLD	Actual HOLD value
140	(8C)	SIGNED	4	XREADORM	Actual dormancy value
144	(90)	SIGNED	4	XRESCKLV	Last change CKPT level
148	(94)	SIGNED	2	XRESTGSZ	Current TG size
150	(96)	BITSTRING	2		Reserved
152	(98)	CHARACTER	44	XRESDSM	Current SPOOL DSN mask
196	(C4)	SIGNED	4	XREZPSEQ	z/OS product sequence numb.
196	(C4)	X'C8'	0	XRESTLEN	**XREQ" Total length of request
Comment					
Update JWEL/TJEV status (XREQINFO = 3) Post JOE without clearing JWELs (XREQINFO = 4) or Post JOE with clearing JWELs or synchronize JOECRTME and \$JWECRTM This request passes a JOE offset and JOE creation time. For XREQINFO = 3, this is used to manage the removal of JWELs and TJEVs. There is no response data. For XREQINFO = 4, this is used to \$#POST a JOE without removing the JWELs. There is no response data.					
End of Comment					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	ADDRESS	4	XREJOEOF	JOE offset
124	(7C)	SIGNED	4	XREJOECR	JOE creation time
128	(80)	SIGNED	4	XREJOEPR	Prior 'creation' time
132	(84)	BITSTRING	1	XREJFLG1	Flags
		1... ..		XREJ1PST	"B'10000000" \$#POST needed
		11.. ..		XREJ1KPJ	"B'11000000" \$#POST and keep JWELs
		..1. ....		XREJ1CRT	"B'00100000" Ensure JOECRTME=\$JWECRTM
133	(85)	BITSTRING	3		Reserved for future use

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
133	(85)	X'88'	0	XREJOELN	** -XREQ" Total length of request
133	(85)	X'22'	0	XREJOELW	"(*-XREQ+3)/4" Total length in words

Comment

Perform \$POSTXEQ. (XREQINFO = 5)  
 Perform \$POSTXEQ. There is no response data.

End of Comment

112	(70)	SIGNED	4	(2)	Reserved
112	(70)	X'78'	0	XREXEQLN	** -XREQ" Total length of request
112	(70)	X'1E'	0	XREXEQLW	"(*-XREQ+3)/4" Total length in words

Comment

Rebuild SYSLOG chain. (XREQINFO = 6)  
 Call the HASPJQS routine \$RBLDLOG to rebuild the chain of SYSLOG job JQEs. There is no response data. Passed data is the MVS system name of the member that needs its SYSLOG chain rebuilt, and an indicator whether to check the chain before doing the rebuild.

End of Comment

112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	8	XRERLMVS	MVS system name w/bad SYSLOG chain
128	(80)	SIGNED	4	XRERLCHN	Check syslog chain ind
128	(80)	X'84'	0	XRERBLLN	** -XREQ" Total length of request
128	(80)	X'21'	0	XRERBLLW	"(*-XREQ+3)/4" Total length in words

Comment

SPIN-ANY support (XREQINFO = 7)  
 Perform a surrogate WTO with a HASP138 message that in turn precipitates code in the WTO SSI that performs \$SPIN operations.

End of Comment

112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	1	XREPDATL (0)	Start of SPIN data
120	(78)	SIGNED	4	XREPJOBN	Job number
124	(7C)	SIGNED	2	XREP138	Length of text
126	(7E)	CHARACTER	100	XREPMSG	HASP138 text
126	(7E)	X'6A'	0	XREPDATA	** -XREPDATL" Lenth of SPIN data
126	(7E)	X'E2'	0	XREPBLLN	** -XREQ" Total length of request
126	(7E)	X'39'	0	XREPBLLW	"(*-XREQ+3)/4" Total length in words

Comment

JQA set spinnable (XREQINFO = 8)  
 Update JQA by turning on JQA1SPIN flag.

End of Comment

112	(70)	SIGNED	4	(2)	Reserved
120	(78)	SIGNED	4	XSPNJOBN	Job number
120	(78)	X'7C'	0	XSPNBLLN	** -XREQ" Total length of request
120	(78)	X'1F'	0	XSPNBLLW	"(*-XREQ+3)/4" Total length in words

Comment

Delete JOBCLASS or CLASS Group (XREQINFO = 9)  
 Update JQA by turning on JQA1SPIN flag.

End of Comment

## \$XREQ Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	8	XCLSNAME	Class or group name
128	(80)	BITSTRING	1	XCLSTYPE	Type of item being deleted
128	(80)	X'1'	0	XCLSTCLS	"1" JOBCLASS
128	(80)	X'2'	0	XCLSTGRP	"2" JOBCLASS GROUP
129	(81)	BITSTRING	3		Reserved
129	(81)	X'84'	0	XCLSBLLN	**"XREQ" Total length of request
129	(81)	X'21'	0	XCLSBLW	**("XREQ+3)/4" Total length in words

Comment

Process Job Modify SSI Request (XREQINFO = 10)

Call the appropriate routine to perform the Job

Modify SSI request. The response data should indicate the success or failure of the function.

Valid action types are:

- \$T - Set command
- \$S - Start command
- \$P - Purge command
- \$E - Restart command

End of Comment

112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	1	XREJDATA (0)	Start of MODJOB req data
120	(78)	ADDRESS	4	XREJMDJQ	Address of associated JQRB
124	(7C)	SIGNED	4	XREJMDJA	ALET of associated JQRB
128	(80)	BITSTRING	1	XREJMDTY	Type of request passed. See field SSJMTYPE in macro IZASSJM for definitions
129	(81)	BITSTRING	1	XREJ MDF1	Flags
		1... ....		XREJMD1S	"B'10000000" SYNC request in JQRB
		.1.. ....		XREJMD1X	"B'01000000" Request sent cross member
		..11 ....		XREJMD1R	"B'00110000" Reserved
130	(82)	BITSTRING	2		Reserved for future use
132	(84)	CHARACTER	64	XREJMDJC	Job correlator, target job
196	(C4)	BITSTRING	1	XREJMDMN	Member number where to send message
197	(C5)	BITSTRING	3		Reserved for future use
200	(C8)	ADDRESS	4	XREJRMGA	Buffer addr response msg
204	(CC)	SIGNED	4	XREJRMGL	Buffer addr length rsp msg
204	(CC)	X'58'	0	XREJMDBL	**"XREJDATA" Base length of request data
208	(D0)	CHARACTER	1	XREJMDTA (0)	Start of associated data
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	ADDRESS	4	XREJMRJQ	Address of associated JQRB
124	(7C)	SIGNED	4	XREJMRJA	ALET of associated JQRB
128	(80)	BITSTRING	1	XREJMRTY	Type of request passed. See field SSJMTYPE in macro IZASSJM for definitions
129	(81)	BITSTRING	1	XREJ MRF1	Flags
		1... ....		XREJMR1S	"B'10000000" SYNC request in JQRB
		.1.. ....		XREJMR1X	"B'01000000" Request sent cross member
		..1. ....		XREJMR1U	"B'00100000" Service got update JQA
		...1 ....		XREJMR1R	"B'00010000" Service got read JQA
130	(82)	BITSTRING	2		Reserved for future use
132	(84)	CHARACTER	64	XREJMRJC	Job correlator, target job
196	(C4)	BITSTRING	1	XREJMRMN	Member number where message sent
197	(C5)	BITSTRING	3		Reserved for future use
200	(C8)	ADDRESS	4	XREJRAMG	Buffer addr response msg
204	(CC)	SIGNED	4	XREJRAML	Buffer addr length rsp msg
208	(D0)	SIGNED	4	XREJMRFC	RC from MODJOB function
212	(D4)	SIGNED	4	XREJMRIC	Internal code from service
216	(D8)	SIGNED	4		Reserved
216	(D8)	X'DC'	0	XREJMDRL	**"XREQ" Total length of response



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
End of definitions for Mailbox name SYSJESXCF\$CMD					
-----					
End of definitions for Mailbox name SYSJESXCF\$CMD					
-----					
Perform PROTSRB. Mailbox name = SYSJES\$XSYSEBUF This request will pass as input the PROTSRB parm list and return as output a data buffer.					
End of Comment					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	SIGNED	4	XRESRBP (0)	-- PROTSRB parm list
120	(78)	ADDRESS	4	XREGTBF	Protected buffer address
124	(7C)	BITSTRING	8	XRESPAD	SPIOSPAD   Spool address to be found
132	(84)	BITSTRING	4	XREJKEY	SPIOJKEY   Job key
136	(88)	SIGNED	4	XREDSKY	SPIODSKY   Dataset key
140	(8C)	SIGNED	2	XREASID	SPIOASID   ASID where job is running
142	(8E)	BITSTRING	1	XREMEMBN	Member number
143	(8F)	BITSTRING	1	XREQFLG1	Flag byte
Comment					
SBWA2SPB EQU B'10000000'   Spool browse and job log SBWA2JLG EQU B'01000000'   data set flags as defined -- in \$SBWA and SIWSRBP					
End of Comment					
143	(8F)	X'18'	0	XSRBREQL	**XRESRBP" Length of SRB request
143	(8F)	X'90'	0	XREXBFNL	**XREQ" Total length of request
112	(70)	SIGNED	4		Reserved
116	(74)	SIGNED	4	XREXDLEN	Data length
120	(78)	BITSTRING	1	XREXDATA (0)	Start of returned data
Comment					
Request initiator data (XREQINFO = XREQITDT) Mailbox name = SYSJES\$XSYSEBUF This request will pass as input appropriate filters and flags and get back initiator data.					
End of Comment					
112	(70)	BITSTRING	1	XREIPRCF	Processing flags (copy of ITWPROCF in HASCSIJP)
113	(71)	BITSTRING	1	XREIFLG1	Init SSI filters (see JPITFLG1 in IAZJPITD)
114	(72)	BITSTRING	1	XREISTAT	Init Status Filter (see JPITSTAT in IAZJPITD)
115	(73)	BITSTRING	1	XREIFLGR	Request restart flags (see ITWFLGR in \$ITWORK)
116	(74)	SIGNED	4	XREIREST	Request restart counter
120	(78)	CHARACTER	8	XREICLAS	Service/Job Class Name (see JPITSCLS in IAZJPITD)
128	(80)	CHARACTER	1	XREISTKN	Caller security token
128	(80)	X'D0'	0	XREIBFLN	**XREQ" Total length of request
112	(70)	BITSTRING	4	XREROINJ	Offset to 1st JES2 init (zero if none returned)
116	(74)	BITSTRING	4	XREROINW	Offset to 1st WLM init (zero if none returned)
120	(78)	BITSTRING	2	XRERDVER	Version of data
122	(7A)	BITSTRING	1	XRERFLGR	Response restart flags (see ITWFLGR in \$ITWORK)
123	(7B)	BITSTRING	1		Reserved
124	(7C)	SIGNED	4	XRERREST	Response restart counter
128	(80)	SIGNED	4	XRERDATA (0)	Start of returned data

## \$XREQ Map

### Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>Migrator switch (XREQINFO = XREQMGSW)            Mailbox name = SYSJES\$XSY\$BUF            This request will update migrator member id in the specified CSA DAS and reroute all I/O permission messages to new migrator.            This request is used by spool migration recovery.            (Note that this request is sent as a COMM message and does not have any response.)</p>					
End of Comment					
112	(70)	SIGNED	4	XREWDASI	CSA DAS index
116	(74)	SIGNED	4	XREWMGID	New migrator id
120	(78)	SIGNED	4	(2)	Reserved
120	(78)	X'80'	0	XREWBFLN	"*-XREQ" Total length of request
Comment					
<p>Request message:            Start phase 1 (XREQINFO = XREQPHA1)            Start phase 2 (XREQINFO = XREQPHA2)            Cancel migration (XREQINFO = XREQCNCL)            End migration (XREQINFO = XREQEND )            Mailbox name = SYSJES2MIGR\$ASST            This request will pass as input source VOLSER and DASEXTNO identifying migration on which to perform the above operations. Spool assistants are required to send response for all of these messages on mailbox MG\$&lt;VOLSER&gt;.</p>					
End of Comment					
112	(70)	SIGNED	4		Reserved
116	(74)	SIGNED	4	XRESTRT	Start target TG bit in support of transposer - only in start phase 1 msg
120	(78)	SIGNED	4	XRETLBM	Relative track at which the track level bitmap (TLBM) starts on TARG DS. Value of 0 denotes no TLBM. Only in start phase 1 msg.
124	(7C)	CHARACTER	6	XREVOLSR	Source DAS VOLSER ID
130	(82)	BITSTRING	1	XREEXTNO	Source DAS DASEXTNO
131	(83)	ADDRESS	1	XRMIGTR	SYSID of migrator system where response (ACK) must be sent to
132	(84)	BITSTRING	1		Reserved for future use
132	(84)	X'85'	0	XREPHELEN	"*-XREQ" Total length of request
Comment					
<p>Request message            Migration status (XREQINFO = XREQSTAU)            Mailbox name = SYSJES2MIGR\$ASST            This request is broadcast to all spool assistants conveying migration information. Spool assistants need not send a response ACK message.</p>					
End of Comment					
112	(70)	SIGNED	4		Reserved for future use
116	(74)	BITSTRING	4	XRMEMACK	Copy of migrator ACK list for start phase 1, start phase 2, end migration and cancel.
120	(78)	BITSTRING	1	XREPERCE	Percent complete
121	(79)	CHARACTER	6	XRERVSER	Source DAS VOLSER ID
127	(7F)	BITSTRING	1	XRERTNO	Source DAS DASEXTNO
128	(80)	SIGNED	4	XRETLBMR	Number of records in TLBM
132	(84)	BITSTRING	1	XRTLBM	TLBM flags

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
133	(85)	1... .. BITSTRING	1	XRTLBMWR XRERSFLG	"B'10000000" TLBM has been written to target dataset Status Flag
134	(86)	1... .. BITSTRING	1	XRERNCAN XRMIGTSK	"B'10000000" Migration not cancellable Migrator subtask state
135	(87)	BITSTRING	1		Reserved for future use
135	(87)	X'88'	0	XRERLEN	**-XREQ" Total length of request

Comment

Response message.

Phase 1 start complete (XREQINFO = XREQPHA1)  
for this MAS member.

Phase 2 start complete (XREQINFO = XREQPHA2)  
for this MAS member.

Cancel migration complete (XREQINFO = XREQCNCL)  
for this MAS member.

End migration complete (XREQINFO = XREQEND )  
for this MAS member.

Mailbox name = SYSJES2MG\$VOLSER

This is notification of operation completion on a  
per member basis. Migration spool assistant subtask  
sends this message.

End of Comment

112	(70)	BITSTRING	3	XREMEMBR	MAS member affinity token
115	(73)	BITSTRING	1		Reserved for future use
116	(74)	SIGNED	4	(2)	Reserved
116	(74)	X'7C'	0	XREMELEN	**-XREQ" Total length of request

Comment

IO permission request (XREQINFO = XREQIOPE)

Mailbox name = SYSJES2RN\$VOLSER

Send 'IO permission" request via runtime.

End of Comment

112	(70)	SIGNED	4	XRETTRAC	Source DAS track
116	(74)	BITSTRING	1	XRETIOTY	IO type
		.... ..1		XRETREAD	"X'01" Read
		.... ..1.		XRETWRIT	"X'02" Write
117	(75)	BITSTRING	3		Reserved for future use
120	(78)	DBL WORD	8	XRETTCHAN (0)	Request chain
120	(78)	ADDRESS	4	XRETTCHFW	off \$DTEMIGR
124	(7C)	ADDRESS	4	XRETTCHBK	(managed by \$FIFOENQ)
128	(80)	ADDRESS	4	XRETTCHN2	Request chain off MGDBUF
136	(88)	DBL WORD	8	XRETTOKN	JESXCF message token
144	(90)	SIGNED	4	(2)	Reserved
144	(90)	X'98'	0	XRETTLEN	**-XREQ" Length of the request
152	(98)	SIGNED	4	XRETTDATA (0)	Start of returned data

Comment

IO permission response (XREQINFO = XREQIOPE)

Mailbox name = SYSJES2RN\$VOLSER

"IO permission" request response from migrator.

End of Comment

112	(70)	BITSTRING	1	XREFLAG	Flags
		1... ..		XREOVRMP	"B'10000000" Override source DAS mapped value.
		.1... ..		XREBTOFF	"B'01000000" Turn off associated track level bitmap - bit
113	(71)	BITSTRING	3		Reserved for future use
116	(74)	SIGNED	4	(2)	Reserved
116	(74)	X'7C'	0	XREQIOLN	**-XREQ" Total length of request

## \$XREQ Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
End of variable sections					
-----					
End of Comment					

## \$XREQ Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
XCLSBLN	81	84	XREJOELW	85	22
XCLSBLW	81	21	XREJOEOF	78	
XCLSNAME	78		XREJOEPR	80	
XCLSTCLS	80	1	XREJRAMG	C8	
XCLSTGRP	80	2	XREJRAML	CC	
XCLSTYPE	80		XREJRMGA	C8	
XREADORM	8C		XREJRMGL	CC	
XREAHOLD	88		XREJ1CRT	84	20
XREASID	8C		XREJ1KPJ	84	C0
XREBTOFF	70	40	XREJ1PST	84	80
XREDSKY	88		XREMELEN	74	7C
XREEXTNO	82		XREMEMBN	8E	
XREFLAG	70		XREMEMBR	70	
XREGTBF	78		XREOVRMP	70	80
XREIBFLN	80	D0	XREPBLN	7E	E2
XREICLAS	78		XREPBLW	7E	39
XREIFLGR	73		XREPDATA	78	
XREIFLG1	71		XREPDATA	7E	6A
XREIPRCF	70		XREPERCE	78	
XREIREST	74		XREPHLEN	84	85
XREISTAT	72		XREPJOBN	78	
XREISTKN	80		XREPMSG	7E	
XREJDATA	78		XREP138	7C	
XREJFLG1	84		XREQ	0	
XREJKEY	84		XREQBASE	70	70
XREJMDBL	CC	58	XREQCNCL	6	3
XREJMD1	81		XREQDATA	70	
XREJMDJA	7C		XREQDATO	18	
XREJMDJC	84		XREQDCLS	6	9
XREJMDJQ	78		XREQEND	6	5
XREJMDMN	C4		XREQFLG1	8F	
XREJMDRL	D8	DC	XREQFRC	C	
XREJMDTA	D0		XREQID	0	E7D9C5D8
XREJMDTY	80		XREQINFO	6	
XREJMD1R	81	30	XREQIOLN	74	7C
XREJMD1S	81	80	XREQIOPE	6	1
XREJMD1X	81	40	XREQITDT	6	2
XREJMR1	81		XREQJMOD	6	A
XREJMRIC	D4		XREQJOE	6	3
XREJMRJA	7C		XREQJQSP	6	8
XREJMRJC	84		XREQLEN	1C	
XREJMRJQ	78		XREQMGSW	6	3
XREJMRMN	C4		XREQMSG	5	D9
XREJMRRC	D0		XREQPHA1	6	1
XREJMRTY	80		XREQPHA2	6	2
XREJMR1R	81	10	XREQPJOE	6	4
XREJMR1S	81	80	XREQPXEQ	6	5
XREJMR1U	81	20	XREQRESP	5	C1
XREJMR1X	81	40	XREQRLOG	6	6
XREJOECR	7C		XREQSCAN	6	1
XREJOELN	85	88	XREQSPIN	6	7

## \$XREQ Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
XREQSTAT	6	2	XSRBREQL	8F	18
XREQSTAU	6	4			
XREQTOKN	8				
XREQTYPE	5				
XREQVER	4				
XREQVERN	4	1			
XREQXBUF	6	1			
XRERBLLN	80	84			
XRERBLLW	80	21			
XRERDATA	80				
XRERDVER	78				
XRERFLGR	7A				
XRERLCHN	80				
XRERLEN	87	88			
XRERLMVS	78				
XRERNCAN	85	80			
XREROINJ	70				
XREROINW	74				
XRERREST	7C				
XRERSFLG	85				
XRERVSER	79				
XRERXTNO	7F				
XRESCADA	78				
XRESCARC	70				
XRESCAST	78				
XRESCKLV	90				
XRESDSM	98				
XRESPAD	7C				
XRESRBP	78				
XRESTGSZ	94				
XRESTLEN	C4	C8			
XRESTNAM	78				
XRESTRT	74				
XRESTTIM	80				
XRETCAN	78				
XRETCBK	7C				
XRETCFW	78				
XRETCN2	80				
XRETDATA	98				
XRETIOTY	74				
XRETLBM	78				
XRETLBMR	80				
XRETREAD	74	1			
XRETTLEN	90	98			
XRETTOKN	88				
XRETRAC	70				
XRETWRIT	74	2			
XREVLSR	7C				
XREWBFLN	78	80			
XREWDASI	70				
XREWMGID	74				
XREXBFLN	8F	90			
XREXDATA	78				
XREXDLEN	74				
XREXEQLN	70	78			
XREXEQLW	70	1E			
XREZPSEQ	C4				
XRMEMACK	74				
XRMIGTR	83				
XRMIGTSK	86	0			
XRTLBM	84				
XRTLBMWR	84	80			
XSPNBLLN	78	7C			
XSPNBLLW	78	1F			
XSPNJOBN	78				

## \$XREQ Cross Reference

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## \$XRQ Information

### \$XRQ Programming Interface information

Programming Interface information

\$XRQ

End of Programming Interface information

## Heading Information • \$XRQ Map

### \$XRQ Heading Information

**Common Name:** JES2 XCF request block  
**Macro ID:** \$XRQ  
**DSECT Name:** XRQ  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** XRQ  
 Offset: XRQID-XRQ  
 Length: L'XRQID  
**Storage Attributes:** Subpool: 17  
 Key: 1  
 Residency: Virtual - Anywhere Real - Anywhere  
**Size:** See XRQSIZE  
**Created by:** JES2 XCF exits.  
**Pointed to by:** XMAAXRQ of \$XMAS  
**Serialization:** None required  
**Function:** The JES2 XCF request block is used to convey the status reflected by the XCF exits to the JES2 XCF processor. The entry is freed in the JES2 XCF PCE under the JES2 main task.

### \$XRQ Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	XRQ	XCF request block DSECT
0	(0)	CHARACTER	4	XRQID	XRQ Identifier
4	(4)	BITSTRING	1	XRQVRSN	XRQ Version
4	(4)	X'2'	0	XRQVNUM	"2" Version Number
5	(5)	BITSTRING	3		Reserved for IBM use
8	(8)	BITSTRING	1	XRQTYPE	Request type
		1... ....		XRQTYSG	"B'10000000" System gone
		.1... ....		XRQTYMEM	"B'01000000" Member status change
		..1. ....		XRQTYUSR	"B'00100000" User state change
9	(9)	BITSTRING	1	XRQJXCF	JESXCF flag byte
		1... ....		XRQDOWN	"B'10000000" Member has gone down
		.1... ....		XRQUP	"B'01000000" Member has joined the MAS
10	(A)	BITSTRING	1	XRQMEMB	Associated member number (zero for group events)
11	(B)	BITSTRING	1		Reserved for IBM use
12	(C)	CHARACTER	4	XRQSID	Associated member name
16	(10)	SIGNED	4	XRQNEXT	Next request
20	(14)	SIGNED	4		Reserved for IBM use
24	(18)	BITSTRING	220	XRQGEPL	GEPL supplied with event mapped by IXCYGEPL
244	(F4)	SIGNED	4	(0)	Full word alignment
244	(F4)	BITSTRING	32	XRQGEPUS	User state field for GEPL
276	(114)	SIGNED	4		Reserved for IBM use
280	(118)	SIGNED	4		Reserved for IBM use
280	(118)	X'11C'	0	XRQSIZE	"*-XRQ" Size of XRQ DSECT



**\$XRQ Cross Reference**

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
XRQ	0	
XRQDOWN	9	80
XRQGEPL	18	
XRQGEPL	F4	
XRQID	0	
XRQJXCF	9	
XRQMEMB	A	
XRQNEXT	10	
XRQSID	C	
XRQSIZE	118	11C
XRQTYMEM	8	40
XRQTYPE	8	
XRQTYSG	8	80
XRQTYUSR	8	20
XRQUP	9	40
XRQVNUM	4	2
XRQVRSN	4	

## \$XRQ Cross Reference

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