

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 239.

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This edition applies to Version 1 Release 13 of z/OS (5694-A01) and to all subsequent releases and modifications until otherwise indicated in new editions.

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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 (5694-A01).

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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.



## \$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
		..1. ....		SAC1PCE	"B'00100000" In process (SACPCE valid)

## \$STAC Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...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	
SACCSJB	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 Programming Interface information**

Programming Interface information

**\$STCWORK**

End of Programming Interface information

## \$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 Programming Interface information**

Programming Interface information

**\$STW**

End of Programming Interface information

## \$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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
72	(48)	X'48'	0	STWJQE	"STWJQA" Address of JQE
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	STWNESJF	"11" SJF error
108	(6C)	X'C'	0	STWNESAF	"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	STWFDSE	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
STWFDSER	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 Programming Interface information**

Programming Interface information

**\$SWBIT**

End of Programming Interface information

## \$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
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"
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	"SWJBKEY" EQU for Job key

## \$SWBIT Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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		SWBTRACK	84	
SWBDATA_Z12	AC		SWBVERS	8D	
SWBDATOF	8C		SWBVER0	8D	0
SWBDATST_Z11	8E	2C	SWBVER12	8D	C
SWBDATST_Z12	A0	44			
SWBDKEY	7C	7C			
SWBDSKEY	7C				
SWBELENG	82				
SWBILENG	80				
SWBIOTMQ	8E				
SWBISIZ_Z11	8E	94			
SWBISIZ_Z12	A0	AC			
SWBIT	0				
SWBITID	68				
SWBJBKEY	78				
SWBJBNUM	74				
SWBJKEY	7C	78			
SWBJNAME	6C				
SWBJOBNM	7C	6C			
SWBKEY	78				
SWBMQTRK	94				
SWBNXTRK	9A				
SWBSPLNG	7C	18			
SWBSTART	0	68			
SWBSWB	0	40			
SWBSWBTR	88				

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

Programming Interface information

**\$SXADDR**

End of Programming Interface information

## \$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

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

## \$SXADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
292	(124)	ADDRESS	4	SX@PSTCAT	"V(PSTCAT)" STCCCLASS/TSUCLASS postscan
296	(128)	ADDRESS	4	SX@PSTCATNW	"V(PSTCATNW)" JOBCLASS postscan
300	(12C)	ADDRESS	4	SX@PREJESLS	"V(PREJESLS)" JOBCLASS JESLOG SET prescan
304	(130)	ADDRESS	4	SX@PREJESLD	"V(PREJESLD)" JOBCLASS JESLOG DISP prescn
308	(134)	ADDRESS	4	SX@PSTDUPLC	"V(PSTDUPLC)" JOBCLASS DUPL_JOB= postscan
312	(138)	ADDRESS	4	SX@PSTJOBDF	"V(PSTJOBDF)" JOBDEF postscan for \$T
316	(13C)	ADDRESS	4	SX@PSTJBJNC	"V(PSTJBJNC)" JOBDEF postscan for \$T of BAD_JOBNAME_CHAR
320	(140)	ADDRESS	4	SX@PSTJBNUM	"V(PSTJBNUM)" JOBDEF JOBNUM= postscan
324	(144)	ADDRESS	4	SX@PREJRBLD	"V(PREJRBLD)" JOBDEF JOBRBLDQ=/OUTDEF JOERBLDQ= prescan
328	(148)	ADDRESS	4	SX@PSTJRNG	"V(PSTJRNG)" JOBDEF RANGE postscan
332	(14C)	ADDRESS	4	SX@PSTPRTY	"V(PSTPRTY)" JOBDEF PRTYRATE= postscan
336	(150)	ADDRESS	4	SX@PSTDUPL	"V(PSTDUPL)" JOBDEF DUPL_JOB= postscan
340	(154)	ADDRESS	4	SX@PREMESYS	"V(PREMEYS)" MASDEF AUTOEMEM= prescan
344	(158)	ADDRESS	4	SX@PSTMESYS	"V(PSTMESYS)" MASDEF AUTOEMEM= postscan
348	(15C)	ADDRESS	4	SX@PRERHELD	"V(PRERHELD)" MASDEF RSVHELD= prescan
352	(160)	ADDRESS	4	SX@PSTHOLD	"V(PSTHOLD)" MASDEF HOLD= postscan
356	(164)	ADDRESS	4	SX@PREDQST	"V(PREDQST)" MEMBER STATUS= prescan
360	(168)	ADDRESS	4	SX@PREMDEFD	"V(PREMDEFD)" MEMBER IND= prescan
364	(16C)	ADDRESS	4	SX@PSTSNAME	"V(PSTSNAME)" MEMBER NAME=/MASDEF OWNMEMB= postscan
368	(170)	ADDRESS	4	SX@PREDSID	"V(PREDSID)" MEMBER RESETBY=, SPOOL MIGRATOR prescan
372	(174)	ADDRESS	4	SX@PSTMIND	"V(PSTMIND)" MEMBER IND= postscan
376	(178)	ADDRESS	4	SX@PSTEMEM	"V(PSTEMEM)" MEMBER postscan
380	(17C)	ADDRESS	4	SX@PREDEMEM	"V(PREDEMEM)" MEMBER prescan
384	(180)	ADDRESS	4	SX@PRECKPTT	"V(PRECKPTT)" MEMBER TIME= prescan
388	(184)	ADDRESS	4	SX@PREMSNM	"V(PREMSNM)" MEMBER SYSNAME= prescan
392	(188)	ADDRESS	4	SX@PSTOUTDF	"V(PSTOUTDF)" OUTDEF postscan for \$T
396	(18C)	ADDRESS	4	SX@PSTJONUM	"V(PSTJONUM)" OUTDEF JOENUM= postscan
400	(190)	ADDRESS	4	SX@PSTPRYO	"V(PSTPRYO)" OUTDEF PRYORATE= postscan
404	(194)	ADDRESS	4	SX@PSTROPT	"V(PSTROPT)" OUTDEF PRTYOUT= postscan
408	(198)	ADDRESS	4	SX@PSTSEGLM	"V(PSTSEGLM)" OUTDEF SEGLIM= postscan
412	(19C)	ADDRESS	4	SX@PREOGDOS	"V(PREOGDOS)" OUTCLASS prescan
416	(1A0)	ADDRESS	4	SX@PSTOGDOS	"V(PSTOGDOS)" OUTCLASS postscan
420	(1A4)	ADDRESS	4	SX@PREOGDOC	"V(PREOGDOC)" OUTCLASS OUTDISP= prescan
424	(1A8)	ADDRESS	4	SX@PSTOGDOC	"V(PSTOGDOC)" OUTCLASS OUTDISP= postscan
428	(1AC)	ADDRESS	4	SX@PREPCETB	"V(PREPCETB)" PCE command prescan
432	(1B0)	ADDRESS	4	SX@PSTPCETB	"V(PSTPCETB)" PCE set command pstscan
436	(1B4)	ADDRESS	4	SX@PREPCEDT	"V(PREPCEDT)" PCE DETAILS prescan
440	(1B8)	ADDRESS	4	SX@PREPCEDN	"V(PREPCEDN)" PCE DETAILS NAME prescan
444	(1BC)	ADDRESS	4	SX@PREPCEWF	"V(PREPCEWF)" PCE DETAILS WAIT prescan
448	(1C0)	ADDRESS	4	SX@PREPCEDJ	"V(PREPCEDJ)" PCE DETAILS CURJOB prescan
452	(1C4)	ADDRESS	4	SX@PREPCEFW	"V(PREPCEFW)" PCE DETAILS subparm prescan
456	(1C8)	ADDRESS	4	SX@PREPRFRS	"V(PREPRFRS)" PERFDATA RESET prescan
460	(1CC)	ADDRESS	4	SX@PREPRFSU	"V(PREPRFSU)" PERFDATA setup prescan
464	(1D0)	ADDRESS	4	SX@PREEVDUR	"V(PREEVDUR)" PERFDATA(EVENT) DURATION= prescan
468	(1D4)	ADDRESS	4	SX@PREPRFPC	"V(PREPRFPC)" PERFDATA(PCESTAT) CPU% prescan
472	(1D8)	ADDRESS	4	SX@PREPRFNL	"V(PREPRFNL)" PERFDATA(PCESTAT) PCENAME= prescan
476	(1DC)	ADDRESS	4	SX@PREPRFFL	"V(PREPRFFL)" PERFDATA(PCESTAT) PCENAME= prescan
480	(1E0)	ADDRESS	4	SX@PREPRFPS	"V(PREPRFPS)" PERFDATA(PCESTAT) POST= prescan
484	(1E4)	ADDRESS	4	SX@PREWAITP	"V(PREWAITP)" PERFDATA(PCESTAT) WAIT= prescan
488	(1E8)	ADDRESS	4	SX@PREPRFWA	"V(PREPRFWA)" PERFDATA(PCESTAT) AVGWAIT= prescan
492	(1EC)	ADDRESS	4	SX@PREPRFPA	"V(PREPRFPA)" PERFDATA(PCESTAT) AVGWAIT= prescan
496	(1F0)	ADDRESS	4	SX@PREPRFQA	"V(PREPRFQA)" PERFDATA(QSUSE) AVGWAIT= prescan
500	(1F4)	ADDRESS	4	SX@PREPDRPT	"V(PREPDRPT)" PERFDATA(SAMPDATA) RPTCLASS= prescan
504	(1F8)	ADDRESS	4	SX@PREPDSRV	"V(PREPDSRV)" PERFDATA(SAMPDATA) SRVCLASS= prescan
508	(1FC)	ADDRESS	4	SX@PREWSC	"V(PREWSC)" PERFDATA(SAMPDATA) and SRVCLASS prescan
512	(200)	ADDRESS	4	SX@PREWSCA	"V(PREWSCA)" SRVCLASS prescan for \$ADD
516	(204)	ADDRESS	4	SX@PSTWSCA	"V(PSTWSCA)" SRVCLASS pstscan for \$ADD
520	(208)	ADDRESS	4	SX@PSTWSCB	"V(PSTWSCB)" SRVCLASS pstscan for \$ADD
524	(20C)	ADDRESS	4	SX@PREPRFZR	"V(PREPRFZR)" PERFDATA skip if 0 prescan



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
528	(210)	ADDRESS	4	SX@PREPRFDT	"V(PREPRFDT)" PERFDATA microsecond display prescan
532	(214)	ADDRESS	4	SX@PSTPRTDF	"V(PSTPRTDF)" PRINTDEF postscan for \$T
536	(218)	ADDRESS	4	SX@PSTRECV	"V(PSTRECV)" RECVOPTS postscan
540	(21C)	ADDRESS	4	SX@PRERDSTM	"V(PRERDSTM)" REDIRECT prescan
544	(220)	ADDRESS	4	SX@PSTRDSTM	"V(PSTRDSTM)" REDIRECT postscan
548	(224)	ADDRESS	4	SX@PRECMDR	"V(PRECMDR)" REDIRECT subparm= prescan
552	(228)	ADDRESS	4	SX@PRESPOOL	"V(PRESPOOL)" SPOOL prescan
556	(22C)	ADDRESS	4	SX@PREISPOL	"V(PREISPOL)" SPOOL init stmt prescan
560	(230)	ADDRESS	4	SX@PSTSPPOOL	"V(PSTSPPOOL)" SPOOL postscan
564	(234)	ADDRESS	4	SX@PREDUSEC	"V(PREDUSEC)" SPOOL TGINUSE= prescan
568	(238)	ADDRESS	4	SX@PREDUSEP	"V(PREDUSEP)" SPOOL PERCENT= prescan
572	(23C)	ADDRESS	4	SX@CVLDRAIN	"V(CVLDRAIN)" SPOOL AWAITING= prescan
576	(240)	ADDRESS	4	SX@PREDSSAF	"V(PREDSSAF)" SPOOL SYSAFF= prescan
580	(244)	ADDRESS	4	SX@PREISPSF	"V(PREISPSF)" SPOOL INIT SYSAFF= prescan
584	(248)	ADDRESS	4	SX@PREFSPAF	"V(PREFSPAF)" SPOOL SYSAFF= prescan fltr
588	(24C)	ADDRESS	4	SX@PSTSPDSN	"V(PSTSPDSN)" SPOOL DSNAME= postscan
592	(250)	ADDRESS	4	SX@PREATTR	"V(PREATTR)" SPOOL unit data attributes
596	(254)	ADDRESS	4	SX@PREDSTS	"V(PREDSTS)" SPOOL STATUS= prescan
600	(258)	ADDRESS	4	SX@PSTDWRKQ	"V(PSTDWRKQ)" SPOOL STATUS= postscan
604	(25C)	ADDRESS	4	SX@PSTSPSAF	"V(PSTSPSAF)" SPOOL SYSAFF= postscan
608	(260)	ADDRESS	4	SX@PRESPOST	"V(PRESPOST)" SPOOL SPACE= prescan
612	(264)	ADDRESS	4	SX@PSTSPSTX	"V(PSTSPSTX)" SPOOL SPACE= postscan
616	(268)	ADDRESS	4	SX@PSTSPSTAR	"V(PSTSPSTAR)" SPOOL TARGET= postscan
620	(26C)	ADDRESS	4	SX@PREMIGDA	"V(PREMIGDA)" SPOOL MIGDATA= prescan
624	(270)	ADDRESS	4	SX@PREMPERC	"V(PREMPERC)" SPOOL MPERCENT= prescan
628	(274)	ADDRESS	4	SX@PSTSPLDF	"V(PSTSPLDF)" SPOOLDEF postscan for \$T
632	(278)	ADDRESS	4	SX@PSTFEN	"V(PSTFEN)" SPOOLDEF postscan for \$T
636	(27C)	ADDRESS	4	SX@PRECYLDS	"V(PRECYLDS)" SPOOLDEF CYL_MANAGED = prescan
640	(280)	ADDRESS	4	SX@PSTCYLDS	"V(PSTCYLDS)" SPOOLDEF CYL_MANAGED = postscan
644	(284)	ADDRESS	4	SX@PSTSPPL	"V(PSTSPPL)" SPOOLDEF SPOOLNUM= postscan
648	(288)	ADDRESS	4	SX@PSTFENO	"V(PSTFENO)" SPOOLDEF FENCE=YES postscan
652	(28C)	ADDRESS	4	SX@PSTSPPLDS	"V(PSTSPPLDS)" SPOOLDEF LARGEDS= postscan
656	(290)	ADDRESS	4	SX@PRESDFRE	"V(PRESDFRE)" SPOOLDEF TGSPACE=FREE pre
660	(294)	ADDRESS	4	SX@PRESDPCT	"V(PRESDPCT)" SPOOLDEF PERCENT= prescan
664	(298)	ADDRESS	4	SX@PSTSPDVL	"V(PSTSPDVL)" SPOOLDEF VOLUME= postscan
668	(29C)	ADDRESS	4	SX@PREDSSI	"V(PREDSSI)" SSI prescan
672	(2A0)	ADDRESS	4	SX@PSTTP	"V(PSTTP)" TPDEF postscan
676	(2A4)	ADDRESS	4	SX@PSTSICE	"V(PSTSICE)" TPDEF postscan
680	(2A8)	ADDRESS	4	SX@PSTLSPIN	"V(PSTLSPIN)" TRACEDEF SPIN postscan
684	(2AC)	ADDRESS	4	SX@PSTNOTAB	"V(PSTNOTAB)" TRACEDEF postscan
688	(2B0)	ADDRESS	4	SX@PRETFID	"V(PRETFID)" TRACEDEF IDS= prescan
692	(2B4)	ADDRESS	4	SX@PRETRCID	"V(PRETRCID)" TRACE prescan
696	(2B8)	ADDRESS	4	SX@PSTTRFLT	"V(PSTTRFLT)" TRACE filtering postscan
700	(2BC)	ADDRESS	4	SX@PRENULL	"V(PRENULL)" General prescan routine to skip keyword (returns RC=8)
704	(2C0)	ADDRESS	4	SX@PSTLIM1	"V(PSTLIM1)" General LIMIT/PLIM/RANGE postscan
708	(2C4)	ADDRESS	4	SX@PRELIMIT	"V(PRELIMIT)" General LIMIT/PLIM/RANGE prescan
712	(2C8)	ADDRESS	4	SX@PSTLIMIT	"V(PSTLIMIT)" General LIMIT/PLIM/RANGE postscan
716	(2CC)	ADDRESS	4	SX@PREQSUSE	"V(PREQSUSE)" General prescan to do \$QSUSE
720	(2D0)	ADDRESS	4	SX@PREHOTS	"V(PREHOTS)" General prescan to ignore keyword on hot start
724	(2D4)	ADDRESS	4	SX@PREDNEGZ	"V(PREDNEGZ)" General prescan to display 0 for negative value
728	(2D8)	ADDRESS	4	SX@PREDNOCB	"V(PREDNOCB)" General prescan to test for missing control block
732	(2DC)	ADDRESS	4	SX@PRECKLEV	"V(PRECKLEV)" General prescan to check for dynamic CKPT level
736	(2E0)	ADDRESS	4	SX@PRECAT	"V(PRECAT)" JOBCLASS prescan
740	(2E4)	ADDRESS	4	SX@PRECATTS	"V(PRECATTS)" STCCCLASS/TSUCLASS prescan
744	(2E8)	ADDRESS	4		Reserved - delete for xmit
748	(2EC)	ADDRESS	4	SX@CLNUPCAT	"V(CLNUPCAT)" JOBCLASS cleanup routine
752	(2F0)	ADDRESS	4	SX@PREPITRS	"V(PREPITRS)" INIT STATUS=STARTING prescan
756	(2F4)	ADDRESS	4	SX@PREDSAFL	"V(PREDSAFL)" General prescan to display list of affinities
760	(2F8)	ADDRESS	4	SX@PREISTC	"V(PREISTC)" INIT STC= prescan
764	(2FC)	ADDRESS	4	SX@PREACTSZ	"V(PREACTSZ)" \$D ACTIVATE prescan

## \$SXADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
768	(300)	ADDRESS	4	SX@PSTACTIV	"V(PSTACTIV)" ACTIVATE postscan
772	(304)	ADDRESS	4	SX@PSTCATSC	"V(PSTCATSC)" JOBCLASS SCHENV= postscan
776	(308)	ADDRESS	4	SX@PSTCSCHE	"V(PSTCSCHE)" JOBCLASS SCHENV = Pstscan
780	(30C)	ADDRESS	4	SX@PREZAPJB	"V(PREZAPJB)" ZAPJOB Prescan
784	(310)	ADDRESS	4	SX@PSTZAPJB	"V(PSTZAPJB)" ZAPJOB Postscan
788	(314)	ADDRESS	4	SX@PSTVJBID	"V(PSTVJBID)" Validate JOBID keyword
792	(318)	ADDRESS	4	SX@PREJCLMD	"V(PREJCLMD)" JOBCLASS MODE postscan
796	(31C)	ADDRESS	4	SX@PSTJCLMD	"V(PSTJCLMD)" JOBCLASS MODE postscan
800	(320)	ADDRESS	4	SX@PSTHPRM	"V(PSTHPRM)" INIT PARM HASPPARM = postscan
804	(324)	ADDRESS	4	SX@PSTPMEM	"V(PSTPMEM)" INIT PARM MEMBER = postscan
808	(328)	ADDRESS	4	SX@PRESNIFF	"V(PRESNIFF)" SPOOLDEF SNIFF prescan
812	(32C)	ADDRESS	4	SX@PSTSNIFF	"V(PSTSNIFF)" SPOOLDEF SNIFF pstscan
816	(330)	ADDRESS	4	SX@PREZRCHK	"V(PREZRCHK)" General prescan to skip display if field is zero
820	(334)	ADDRESS	4	SX@PREFFCHK	"V(PREFFCHK)" General prescan to skip display if field is FFs
824	(338)	ADDRESS	4	SX@PREFLHOT	"V(PREFLHOT)" COLD/FORMAT start option
828	(33C)	ADDRESS	4	SX@PREDEVID	"V(PREDEVID)" General prescan to display devid fields
832	(340)	ADDRESS	4		Reserved for future use
836	(344)	ADDRESS	4		Reserved for future use
840	(348)	ADDRESS	4		Reserved for future use
844	(34C)	ADDRESS	4		Reserved for future use
848	(350)	ADDRESS	4		Reserved for future use
852	(354)	ADDRESS	4		Reserved for future use
856	(358)	ADDRESS	4		Reserved for future use
860	(35C)	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

864	(360)	ADDRESS	4	SX@PREACMEM	"V(PREACMEM)" ACTRMT MEMBER= prescan
868	(364)	ADDRESS	4	SX@PSTIRTRC	"V(PSTIRTRC)" INTRDR TRACE=
872	(368)	ADDRESS	4	SX@PRELDVL	"V(PRELDVL)" Ln prescan
876	(36C)	ADDRESS	4	SX@PRELDEV	"V(PRELDEV)" Ln.dev prescan
880	(370)	ADDRESS	4	SX@PSTTRANS	"V(PSTTRANS)" Ln.dev postscan
884	(374)	ADDRESS	4	SX@PRELINE	"V(PRELINE)" LINE prescan
888	(378)	ADDRESS	4	SX@PSTLINE	"V(PSTLINE)" LINE postscan
892	(37C)	ADDRESS	4	SX@PSTLINEA	"V(PSTLINEA)" LINE postscan
896	(380)	ADDRESS	4	SX@PRELNSTK	"V(PRELNSTK)" LINE CONNECT time prescan
900	(384)	ADDRESS	4	SX@PRELDFLT	"V(PRELDFLT)" LINE JTNUM=/STNUM=/JRNUM=/SRNUM= prescan
904	(388)	ADDRESS	4	SX@PRELDNDE	"V(PRELDNDE)" LINE NODES= display prescan
908	(38C)	ADDRESS	4	SX@PRELFNDE	"V(PRELFNDE)" LINE NODES= display prescan
912	(390)	ADDRESS	4	SX@PSTLTRST	"V(PSTLTRST)" LINE TRACE= set postscan
916	(394)	ADDRESS	4	SX@PSTLTRSS	"V(PSTLTRSS)" LINE TRACE= set postscan
920	(398)	ADDRESS	4	SX@PREVTRC	"V(PREVTRC)" LINE/NETSRV TRACE= filter prescan
924	(39C)	ADDRESS	4	SX@PRELNERS	"V(PRELNERS)" LINE RMTSHARE= prescan
928	(3A0)	ADDRESS	4	SX@PRELINST	"V(PRELINST)" LINE STATUS= prescan
932	(3A4)	ADDRESS	4	SX@PSTLINST	"V(PSTLINST)" LINE STATUS= postscan
936	(3A8)	ADDRESS	4	SX@PSTLGNA	"V(PSTLGNA)" LOGON postscan
940	(3AC)	ADDRESS	4	SX@PSTSRVA	"V(PSTSRVA)" NETSRV postscan
944	(3B0)	ADDRESS	4	SX@PRESVSES	"V(PRESVSES)" NETSRV SESSIONS= prescan
948	(3B4)	ADDRESS	4	SX@PSTSVSCK	"V(PSTSVSCK)" NETSRV SOCKET= postscan
952	(3B8)	ADDRESS	4	SX@PSTNTRST	"V(PSTNTRST)" NETSRV TRACE= set postscan
956	(3BC)	ADDRESS	4	SX@PSTNTRSS	"V(PSTNTRSS)" NETSRV TRACE= set postscan
960	(3C0)	ADDRESS	4	SX@PREOGDSR	"V(PREOGDSR)" OFFn.SR OUTDISP= prescan
964	(3C4)	ADDRESS	4	SX@PSTMDCR	"V(PSTMDCR)" OFFn.SR MOD=ROUTECD= postscan
968	(3C8)	ADDRESS	4	SX@PREOGDST	"V(PREOGDST)" OFFn.ST/Ln.ST OUTDISP= prescan
972	(3CC)	ADDRESS	4	SX@PSTMDSAF	"V(PSTMDSAF)" OFFn.JR MOD=SYSAFF= postscan
976	(3D0)	ADDRESS	4	SX@PREDSAF	"V(PREDSAF)" OFF.JT/OFF.JR SYSAFF= prescan
980	(3D4)	ADDRESS	4	SX@PSTSFAF	"V(PSTSFAF)" OFF.JT/OFF.JR SYSAFF= postscan

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
984	(3D8)	ADDRESS	4	SX@PSTOARCH	"V(PSTOARCH)" OFFLOAD ARCHIVE= postscan
988	(3DC)	ADDRESS	4	SX@PREPROCL	"V(PREPROCL)" PROCLIB prescan
992	(3E0)	ADDRESS	4	SX@PSTPROCL	"V(PSTPROCL)" PROCLIB postscan
996	(3E4)	ADDRESS	4	SX@CLNUPPAD	"V(CLNUPPAD)" PROCLIB cleanup routine
1000	(3E8)	ADDRESS	4	SX@PREPRT	"V(PREPRT)" PRT prescan
1004	(3EC)	ADDRESS	4	SX@PSTPRT	"V(PSTPRT)" PRT postscan
1008	(3F0)	ADDRESS	4	SX@PREDFLNO	"V(PREDFLNO)" PRT DEVFLASH= prescan
1012	(3F4)	ADDRESS	4	SX@PSTPRDFL	"V(PSTPRDFL)" PRT DEVFLASH= postscan
1016	(3F8)	ADDRESS	4	SX@PSTDDFCB	"V(PSTDDFCB)" PRT/Rn.PRn DEVFCB= postscan
1020	(3FC)	ADDRESS	4	SX@PSTPRFCB	"V(PSTPRFCB)" PRT/Rn.PRn FCB= postscan
1024	(400)	ADDRESS	4	SX@PSTDFCB	"V(PSTDFCB)" PRT/Rn.PRn FCB= postscan
1028	(404)	ADDRESS	4	SX@PSTPRFLS	"V(PSTPRFLS)" PRT FLASH= postscan
1032	(408)	ADDRESS	4	SX@PREDFSS	"V(PREDFSS)" PRT FSS= prescan
1036	(40C)	ADDRESS	4	SX@PSTSFSS	"V(PSTSFSS)" PRT FSS= postscan
1040	(410)	ADDRESS	4	SX@PRELSFRM	"V(PRELSFRM)" PRT LASTFORM= prescan
1044	(414)	ADDRESS	4	SX@PREPMODE	"V(PREPMODE)" PRT PRMODE= prescan
1048	(418)	ADDRESS	4	SX@PSTPRUCS	"V(PSTPRUCS)" PRT/Rn.PRn UCS= postscan
1052	(41C)	ADDRESS	4	SX@PSTDUCS	"V(PSTDUCS)" PRT/Rn.PRn UCS= postscan
1056	(420)	ADDRESS	4	SX@PFSQUERY	"V(PFSQUERY)" PRT subparm= prescan (FSS query)
1060	(424)	ADDRESS	4	SX@PFSQFREE	"V(PFSQFREE)" PRT subparm= prescan (PFSQUERY cleanup)
1064	(428)	ADDRESS	4	SX@PRENIPRT	"V(PRENIPRT)" PRT subparm= prescan (test non-impact)
1068	(42C)	ADDRESS	4	SX@PREPIFNL	"V(PREPIFNL)" PRT subparm= prescan (test **** value)
1072	(430)	ADDRESS	4	SX@PRPRESET	"V(PRPRESET)" PRT subparm= prescan (test RESET value)
1076	(434)	ADDRESS	4	SX@PREDEVDR	"V(PREDEVDR)" PRT subparm= prescan (test drain)
1080	(438)	ADDRESS	4	SX@PREOPACT	"V(PREOPACT)" PRT subparm= prescan (test operator action)
1084	(43C)	ADDRESS	4	SX@PSTFSUPD	"V(PSTFSUPD)" PRT subparm= postscan (FSA update)
1088	(440)	ADDRESS	4	SX@PSTFSNSP	"V(PSTFSNSP)" PRT subparm= postscan (FSACB update)
1092	(444)	ADDRESS	4	SX@PSTFSSET	"V(PSTFSSET)" PRT subparm= postscan (FSS SET order)
1096	(448)	ADDRESS	4	SX@PSTFSYNC	"V(PSTFSYNC)" PRT subparm= postscan (FSS SYNCH order)
1100	(44C)	ADDRESS	4	SX@PSTPUN	"V(PSTPUN)" PUN postscan
1104	(450)	ADDRESS	4	SX@PRERDEV	"V(PRERDEV)" Rn.dev prescan
1108	(454)	ADDRESS	4	SX@PRERDVAU	"V(PRERDVAU)" PR/PU/RD prescan to verify command from remote device
1112	(458)	ADDRESS	4	SX@PSTSELECT	"V(PSTSELECT)" Rn.PRn/Rn.PUn SELECT= postscan
1116	(45C)	ADDRESS	4	SX@PREDSLCT	"V(PREDSLCT)" Rn.PRn/Rn.PUn SELECT= prescan
1120	(460)	ADDRESS	4	SX@PSTRDVCM	"V(PSTRDVCM)" Rn.PRn/Rn.PUn CMPCT= postscan
1124	(464)	ADDRESS	4	SX@PSTRDVCO	"V(PSTRDVCO)" Rn.PRn/Rn.PUn COMPRESS= postscan
1128	(468)	ADDRESS	4	SX@PSTRDEV	"V(PSTRDEV)" Rn.PRn/Rn.PUn postscan
1132	(46C)	ADDRESS	4	SX@PRERMTRC	"V(PRERMTRC)" Rn.PRn/Rn.PUn ROUTECDE= prescan
1136	(470)	ADDRESS	4	SX@PRERPZPT	"V(PRERPZPT)" Rn.PRn/Rn.PUn COMPACT= prescan
1140	(474)	ADDRESS	4	SX@PREDPZPT	"V(PREDPZPT)" Rn.PRn/Rn.PUn COMPACT= prescan
1144	(478)	ADDRESS	4	SX@PRERMT	"V(PRERMT)" RMT prescan
1148	(47C)	ADDRESS	4	SX@PSTRMT	"V(PSTRMT)" RMT postscan
1152	(480)	ADDRESS	4	SX@PSTRMTA	"V(PSTRMTA)" RMT postscan
1156	(484)	ADDRESS	4	SX@PSTRMTLN	"V(PSTRMTLN)" RMT LINE= prescan
1160	(488)	ADDRESS	4	SX@PRERMTP	"V(PRERMTP)" RMT PASSWORD= prescan
1164	(48C)	ADDRESS	4	SX@PRERMTPSH	"V(PRERMTPSH)" RMT SHARABLE= prescan
1168	(490)	ADDRESS	4	SX@PSTRMTSH	"V(PSTRMTSH)" RMT SHARABLE= postscan
1172	(494)	ADDRESS	4	SX@PRERMTPST	"V(PRERMTPST)" RMT STATUS= prescan
1176	(498)	ADDRESS	4	SX@PREMULFM	"V(PREMULFM)" Device FORMS= prescan
1180	(49C)	ADDRESS	4	SX@PSTWFORM	"V(PSTWFORM)" Device FORMS= postscan
1184	(4A0)	ADDRESS	4	SX@PSTJOBNM	"V(PSTJOBNM)" Device JOBNAME= postscan
1188	(4A4)	ADDRESS	4	SX@PSTPRMD	"V(PSTPRMD)" Device PRMODE= postscan
1192	(4A8)	ADDRESS	4	SX@PREDPRMD	"V(PREDPRMD)" Device PRMODE= prescan
1196	(4AC)	ADDRESS	4	SX@PREFPRMD	"V(PREFPRMD)" Device PRMODE= prescan
1200	(4B0)	ADDRESS	4	SX@PRERDEST	"V(PRERDEST)" Device PRTDEST/PUNDEST/XEQDEST prescan
1204	(4B4)	ADDRESS	4	SX@PRERNG	"V(PRERNG)" Device RANGE= prescan
1208	(4B8)	ADDRESS	4	SX@PREDRNG	"V(PREDRNG)" Device RANGE= prescan
1212	(4BC)	ADDRESS	4	SX@PREDVSTK	"V(PREDVSTK)" Device RESTART time prescan
1216	(4C0)	ADDRESS	4	SX@PSTRC	"V(PSTRC)" Device ROUTECDE= postscan
1220	(4C4)	ADDRESS	4	SX@PREDRC	"V(PREDRC)" Device ROUTECDE= prescan
1224	(4C8)	ADDRESS	4	SX@PREFRC	"V(PREFRC)" Device ROUTECDE= prescan
1228	(4CC)	ADDRESS	4	SX@PREDSTAT	"V(PREDSTAT)" Device STATUS= prescan

## \$SXADDR Map

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
1232	(4D0)	ADDRESS	4	SX@PREDDVJB	"V(PREDDVJB)" Device STATUS= prescan	
1236	(4D4)	ADDRESS	4	SX@PREDDVRC	"V(PREDDVRC)" Device STATUS= prescan	
1240	(4D8)	ADDRESS	4	SX@PREDRSAF	"V(PREDRSAF)" Device SYSAFF= prescan	
1244	(4DC)	ADDRESS	4	SX@PSTSRSAF	"V(PSTSRSAF)" Device SYSAFF= postscan	
1248	(4E0)	ADDRESS	4	SX@PSTSRSF2	"V(PSTSRSF2)" Device SYSAFF= postscan	
1252	(4E4)	ADDRESS	4	SX@PSTUNIT	"V(PSTUNIT)" Device UNIT= postscan	
1256	(4E8)	ADDRESS	4	SX@PREUNIT	"V(PREUNIT)" Device UNIT= postscan	
1260	(4EC)	ADDRESS	4	SX@PSTVOL	"V(PSTVOL)" Device VOLUME= postscan	
1264	(4F0)	ADDRESS	4	SX@PREDWS	"V(PREDWS)" Device WS= prescan	
1268	(4F4)	ADDRESS	4	SX@PSTWS	"V(PSTWS)" Device WS= postscan	
1272	(4F8)	ADDRESS	4	SX@PSTTRCDV	"V(PSTTRCDV)" Device TRACE= postscan	
1276	(4FC)	ADDRESS	4	SX@PREDVDRN	"V(PREDVDRN)" General prescan to test device status	
1280	(500)	ADDRESS	4	SX@PRETRCDV	"V(PRETRCDV)" General prescan to verify SYSTEM authority from remote device	
1284	(504)	ADDRESS	4	SX@PREDRRC	"V(PREDRRC)" General ROUTECDE= prescan	
1288	(508)	ADDRESS	4	SX@PREFRRC	"V(PREFRRC)" General ROUTECDE= prescan	
1292	(50C)	ADDRESS	4	SX@PREMULRC	"V(PREMULRC)" Multiple route code prescan	
1296	(510)	ADDRESS	4	SX@PRERPRPU	"V(PRERPRPU)" Rn.PRn/Rn.PUn LRECL= presc	
1300	(514)	ADDRESS	4	SX@PSTRPRPU	"V(PSTRPRPU)" Rn.PRn/Rn.PUn LRECL= postsc	
1304	(518)	ADDRESS	4	SX@PSTCDCT	"V(PSTCDCT)" CDCT synch, all devices	
1308	(51C)	ADDRESS	4	SX@PSTCDCTO	"V(PSTCDCTO)" CDCT synch, offload devices	
1312	(520)	ADDRESS	4	SX@PSTCDCTS	"V(PSTCDCTS)" CDCT synch, MDCDTDCT chain is processed.	
1316	(524)	ADDRESS	4		Reserved for future use	
1320	(528)	ADDRESS	4		Reserved for future use	
1324	(52C)	ADDRESS	4		Reserved for future use	
1328	(530)	ADDRESS	4		Reserved for future use	
1332	(534)	ADDRESS	4		Reserved for future use	
1336	(538)	ADDRESS	4		Reserved for future use	
1340	(53C)	ADDRESS	4		Reserved for future use	
1344	(540)	ADDRESS	4		Reserved for future use	
1348	(544)	ADDRESS	4		Reserved for future use	

Comment

Module HASPSXNJ exit routines

End of Comment

1352	(548)	ADDRESS	4	SX@PREAPPL	"V(PREAPPL)" APPL prescan
1356	(54C)	ADDRESS	4	SX@PSTAPPL	"V(PSTAPPL)" APPL postscan
1360	(550)	ADDRESS	4	SX@PREAPSTK	"V(PREAPSTK)" APPL CONNECT= time prescan
1364	(554)	ADDRESS	4	SX@PRELDED	"V(PRELDED)" APPL/NODE/SOCKET LINE= prescan
1368	(558)	ADDRESS	4	SX@PSTLDED	"V(PSTLDED)" APPL/NODE/SOCKET LINE= postscan
1372	(55C)	ADDRESS	4	SX@PREAPNOD	"V(PREAPNOD)" APPL/SOCKET NODE= prescan
1376	(560)	ADDRESS	4	SX@PRECONCT	"V(PRECONCT)" CONNECT prescan
1380	(564)	ADDRESS	4	SX@PSTCONCT	"V(PSTCONCT)" CONNECT postscan
1384	(568)	ADDRESS	4	SX@PSTDCNCT	"V(PSTDCNCT)" CONNECT postscan
1388	(56C)	ADDRESS	4	SX@PRECMEMB	"V(PRECMEMB)" CONNECT MEMBA/MEMBB prescan
1392	(570)	ADDRESS	4	SX@PRECNODE	"V(PRECNODE)" CONNECT NODEA/NODEB prescan
1396	(574)	ADDRESS	4	SX@PREFNODE	"V(PREFNODE)" CONNECT NODEA/NODEB prescan
1400	(578)	ADDRESS	4	SX@PREFNPM	"V(PREFNPM)" CONNECT PATHMGR= prescan
1404	(57C)	ADDRESS	4	SX@PREDNPM	"V(PREDNPM)" CONNECT PATHMGR= prescan
1408	(580)	ADDRESS	4	SX@PREDCRST	"V(PREDCRST)" CONNECT REST= prescan
1412	(584)	ADDRESS	4	SX@PSTCSTAT	"V(PSTCSTAT)" CONNECT STATUS= postscan
1416	(588)	ADDRESS	4	SX@PREDESSEN	"V(PREDESSEN)" LINE/LOGON SESSIONS= prescan
1420	(58C)	ADDRESS	4	SX@POSTNRM	"V(POSTNRM)" \$POST Net Resource Monitor
1424	(590)	ADDRESS	4	SX@PRESZNET	"V(PRESZNET)" \$\$/\$P/\$Z NET prescan
1428	(594)	ADDRESS	4	SX@PSTSNET	"V(PSTSNET)" \$\$/\$P/\$Z NET postscan
1432	(598)	ADDRESS	4	SX@PREDNET	"V(PREDNET)" NETACCT prescan
1436	(59C)	ADDRESS	4	SX@PREPIDNT	"V(PREPIDNT)" NETACCT prescan
1440	(5A0)	ADDRESS	4	SX@PSTNETAC	"V(PSTNETAC)" NETACCT postscan
1444	(5A4)	ADDRESS	4	SX@PSTNRT	"V(PSTNRT)" NJEDEF postscan
1448	(5A8)	ADDRESS	4	SX@PSTNLM	"V(PSTNLM)" NJEDEF postscan
1452	(5AC)	ADDRESS	4	SX@PSTNJEC	"V(PSTNJEC)" NJEDEF CONNECT postscan
1456	(5B0)	ADDRESS	4	SX@PRENNUM	"V(PRENNUM)" NJEDEF NODENUM prescan

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1460	(5B4)	ADDRESS	4	SX@PRENODE	"V(PRENODE)" NODE prescan
1464	(5B8)	ADDRESS	4	SX@PSTNODE	"V(PSTNODE)" NODE postscan
1468	(5BC)	ADDRESS	4	SX@PRENACT	"V(PRENACT)" NODE NAME= prescan
1472	(5C0)	ADDRESS	4	SX@PRENDPAS	"V(PRENDPAS)" NODE PASSWORD= prescan
1476	(5C4)	ADDRESS	4	SX@PREDSPWD	"V(PREDSPWD)" NODE PASSWORD=SEND= prescan
1480	(5C8)	ADDRESS	4	SX@PRENODES	"V(PRENODES)" NODE STATUS= prescan
1484	(5CC)	ADDRESS	4	SX@PRENDSTK	"V(PRENDSTK)" NODE CONNECT time prescan
1488	(5D0)	ADDRESS	4	SX@PSTNCHG	"V(PSTNCHG)" NODE ckpt'ed parm prescan
1492	(5D4)	ADDRESS	4	SX@PREPVIA	"V(PREPVIA)" PATH prescan
1496	(5D8)	ADDRESS	4	SX@PREPPATH	"V(PREPPATH)" PATH prescan
1500	(5DC)	ADDRESS	4	SX@PREPSTAT	"V(PREPSTAT)" PATH STATUS= prescan
1504	(5E0)	ADDRESS	4	SX@PSTSOCK	"V(PSTSOCK)" SOCKET postscan
1508	(5E4)	ADDRESS	4	SX@PRESKSTK	"V(PRESKSTK)" SOCKET CONNECT time prescan
1512	(5E8)	ADDRESS	4	SX@PREDPSWD	"V(PREDPSWD)" General PASSWORD= prescan
1516	(5EC)	ADDRESS	4	SX@PREIPAD	"V(PREIPAD)" General prescan to convert 32-bit IP addresses
1520	(5F0)	ADDRESS	4	SX@PREFPATH	"V(PREFPATH)" General prescan to force full path analysis
1524	(5F4)	ADDRESS	4	SX@PRESHOST	"V(PRESHOST)" SOCKET HOST= prescanuse
1528	(5F8)	ADDRESS	4	SX@PRESOKID	"V(PRESOKID)" SOCKET SOCKID= prescan
1532	(5FC)	ADDRESS	4	SX@PSTSOKST	"V(PSTSOKST)" SOCKET STATUS= postscan
1536	(600)	ADDRESS	4	SX@PRESOCK	"V(PRESOCK)" SOCKET prescan
1540	(604)	ADDRESS	4		Reserved for future use
1544	(608)	ADDRESS	4		Reserved for future use
1548	(60C)	ADDRESS	4		Reserved for future use
1552	(610)	ADDRESS	4		Reserved for future use
1556	(614)	ADDRESS	4		Reserved for future use
1560	(618)	ADDRESS	4		Reserved for future use
1564	(61C)	ADDRESS	4		Reserved for future use
1568	(620)	ADDRESS	4		Reserved for future use

Comment

Module HASPSXOT exit routines

End of Comment

1572	(624)	ADDRESS	4	SX@PREJOE	"V(PREJOE)" OUTPUT prescan
1576	(628)	ADDRESS	4	SX@PREJOAUP	"V(PREJOAUP)" OUTPUT UPDATE JOA prescan
1580	(62C)	ADDRESS	4	SX@CLNUPJOE	"V(CLNUPJOE)" OUTPUT cleanup routine
1584	(630)	ADDRESS	4	SX@PSTJODSP	"V(PSTJODSP)" OUTPUT postscan
1588	(634)	ADDRESS	4	SX@PREJOBSY	"V(PREJOBSY)" OUTPUT BUSY= prescan
1592	(638)	ADDRESS	4	SX@PREFOCLS	"V(PREFOCLS)" OUTPUT CLASS prescan
1596	(63C)	ADDRESS	4	SX@PREHLDRD	"V(PREHLDRD)" OUTPUT HOLDRC= prescan
1600	(640)	ADDRESS	4	SX@PREOTGRP	"V(PREOTGRP)" OUTPUT OUTGRP= prescan
1604	(644)	ADDRESS	4	SX@PREFOUTG	"V(PREFOUTG)" OUTPUT OUTGRP= prescan
1608	(648)	ADDRESS	4	SX@PREODRDY	"V(PREODRDY)" OUTPUT READY/HELD prescan
1612	(64C)	ADDRESS	4	SX@PREJRCPG	"V(PREJRCPG)" OUTPUT RECORDS/PAGES prescan
1616	(650)	ADDRESS	4	SX@PREJDEST	"V(PREJDEST)" OUTPUT ROUTECDE= prescan
1620	(654)	ADDRESS	4	SX@PREJOERC	"V(PREJOERC)" OUTPUT ROUTECDE= prescan
1624	(658)	ADDRESS	4	SX@PREJOFRC	"V(PREJOFRC)" OUTPUT ROUTECDE= prescan
1628	(65C)	ADDRESS	4	SX@PREJOSTA	"V(PREJOSTA)" OUTPUT STATUS= prescan
1632	(660)	ADDRESS	4	SX@PREJCKJO	"V(PREJCKJO)" OUTPUT keyword= prescan for char-JOE fields
1636	(664)	ADDRESS	4	SX@PREOJQX	"V(PREOJQX)" OUTPUT keyword= prescan for JQX fields
1640	(668)	ADDRESS	4	SX@PREJDMND	"V(PREJDMND)" OUTPUT keyword= prescan for demand select
1644	(66C)	ADDRESS	4	SX@PREJQOFS	"V(PREJQOFS)" JOB OFFS= prescan
1648	(670)	ADDRESS	4	SX@PREJOOFS	"V(PREJOOFS)" OUTPUT OFFS= prescan
1652	(674)	ADDRESS	4	SX@PREJOFFS	"V(PREJOFFS)" JOB/OUTPUT OFFS= prescan
1656	(678)	ADDRESS	4	SX@PREFOFFS	"V(PREFOFFS)" JOB/OUTPUT OFFS= prescan
1660	(67C)	ADDRESS	4	SX@PSTSOFFS	"V(PSTSOFFS)" JOB/OUTPUT OFFS= postscan
1664	(680)	ADDRESS	4	SX@PRE4STAR	"V(PRE4STAR)" OUTPUT keyword= prescan for '****' value
1668	(684)	ADDRESS	4	SX@PSTSTMOD	"V(PSTSTMOD)" OUTPUT keyword= postscan JOEFLAGT bits (TMOD)
1672	(688)	ADDRESS	4	SX@PRELORDY	"V(PRELORDY)" \$LJ READY/HELD prescan
1676	(68C)	ADDRESS	4	SX@PRELOTOT	"V(PRELOTOT)" \$LJ OUTGRPS prescan

## \$SXADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1680	(690)	ADDRESS	4	SX@PRELOLP	"V(PRELOLP)" \$LJ RECORDS/PAGES prescan
1684	(694)	ADDRESS	4	SX@PREJLOCK	"V(PREJLOCK)" OUTPUT prescan for job lock
1688	(698)	ADDRESS	4	SX@PRENDDEL	"V(PRENDDEL)" Skip display on delete call
1692	(69C)	ADDRESS	4		Reserved for future use
1696	(6A0)	ADDRESS	4		Reserved for future use
1700	(6A4)	ADDRESS	4		Reserved for future use
1704	(6A8)	ADDRESS	4		Reserved for future use
1708	(6AC)	ADDRESS	4		Reserved for future use
1712	(6B0)	ADDRESS	4		Reserved for future use
1716	(6B4)	ADDRESS	4		Reserved for future use
1720	(6B8)	ADDRESS	4		Reserved for future use
1724	(6BC)	ADDRESS	4		Reserved for future use
1728	(6C0)	ADDRESS	4		Reserved for future use
Comment					
Module HASPSXJB exit routines					
End of Comment					
1732	(6C4)	ADDRESS	4	SX@PREJQE	"V(PREJQE)" JOB prescan
1736	(6C8)	ADDRESS	4	SX@PREJST	"V(PREJST)" JOB prescan
1740	(6CC)	ADDRESS	4	SX@PSTCFVQE	"V(PSTCFVQE)" JOB postscan
1744	(6D0)	ADDRESS	4	SX@PREJBDUP	"V(PREJBDUP)" JOB prescan
1748	(6D4)	ADDRESS	4	SX@PREJQRDS	"V(PREJQRDS)" JOB prescan
1752	(6D8)	ADDRESS	4	SX@PSTJQDSP	"V(PSTJQDSP)" JOB postscan
1756	(6DC)	ADDRESS	4	SX@PREJQAUP	"V(PREJQAUP)" JOB update mode JQA prescan
1760	(6E0)	ADDRESS	4	SX@PREJQBSY	"V(PREJQBSY)" JOB BUSY= prescan
1764	(6E4)	ADDRESS	4	SX@PREJABS	"V(PREJABS)" JOB CC=ABEND prescan
1768	(6E8)	ADDRESS	4	SX@PREJABU	"V(PREJABU)" JOB CC=ABEND prescan
1772	(6EC)	ADDRESS	4	SX@PSTJSCLS	"V(PSTJSCLS)" JOB CLASS= postscan
1776	(6F0)	ADDRESS	4	SX@PREJCLAS	"V(PREJCLAS)" JOB CLASS= prescan
1780	(6F4)	ADDRESS	4	SX@PREDRNE	"V(PREDRNE)" JOB CMDAUTH= prescan
1784	(6F8)	ADDRESS	4	SX@PREDELAY	"V(PREDELAY)" JOB DELAY prescan
1788	(6FC)	ADDRESS	4	SX@PREJINIT	"V(PREJINIT)" JOB INITASID= prescan
1792	(700)	ADDRESS	4	SX@PREJQPRI	"V(PREJQPRI)" JOB PRIORITY= prescan
1796	(704)	ADDRESS	4	SX@PREJPRIF	"V(PREJPRIF)" JOB PRIORITY= prescan
1800	(708)	ADDRESS	4	SX@PSTJQPRI	"V(PSTJQPRI)" JOB PRIORITY= postscan
1804	(70C)	ADDRESS	4	SX@PSTPJQUE	"V(PSTPJQUE)" JOB Q= postscan routine
1808	(710)	ADDRESS	4	SX@PSTJEXFL	"V(PSTJEXFL)" JOB prescan for DUMP, PURGE, ARMRESTART, PROTECTED, etc.
1812	(714)	ADDRESS	4	SX@PREJQEXQ	"V(PREJQEXQ)" JOB prescan for busy in XEQ
1816	(718)	ADDRESS	4	SX@PREJQEPH	"V(PREJQEPH)" JOB prescan Queued pre HOPE
1820	(71C)	ADDRESS	4	SX@PRESBYS	"V(PRESBYS)" JOB SECLABEL_AFF prescan
1824	(720)	ADDRESS	4	SX@PREJTGP	"V(PREJTGP)" JOB SPOOL=PERCENT= prescan
1828	(724)	ADDRESS	4	SX@PREFTGP	"V(PREFTGP)" JOB SPOOL=PERCENT= prescan
1832	(728)	ADDRESS	4	SX@PREJTGN	"V(PREJTGN)" JOB SPOOL=TGS= prescan
1836	(72C)	ADDRESS	4	SX@PREDJVOL	"V(PREDJVOL)" JOB SPOOL=VOLUMES= prescan
1840	(730)	ADDRESS	4	SX@PREFJVOL	"V(PREFJVOL)" JOB SPOOL=VOLUMES= prescan
1844	(734)	ADDRESS	4	SX@PREJDSC	"V(PREJDSC)" JOB SRVCLASS= prescan \$D
1848	(738)	ADDRESS	4	SX@PSTJSRVC	"V(PSTJSRVC)" JOB SRVCLASS= postscan \$T
1852	(73C)	ADDRESS	4	SX@PREJSTAT	"V(PREJSTAT)" JOB STATUS= prescan
1856	(740)	ADDRESS	4	SX@PREDJSAF	"V(PREDJSAF)" JOB SYSAFF prescan
1860	(744)	ADDRESS	4	SX@PREFJSAF	"V(PREFJSAF)" JOB SYSAFF prescan
1864	(748)	ADDRESS	4	SX@PRESJSAF	"V(PRESJSAF)" JOB SYSAFF prescan
1868	(74C)	ADDRESS	4	SX@PSTSJSAF	"V(PSTSJSAF)" JOB SYSAFF postscan
1872	(750)	ADDRESS	4	SX@CLNUPJQE	"V(CLNUPJQE)" JOB JQE cleanup routine
1876	(754)	ADDRESS	4	SX@PSTJSCHE	"V(PSTJSCHE)" JOB SCHENV= postscan
1880	(758)	ADDRESS	4	SX@PSTJQASC	"V(PSTJQASC)" JOB SCHENV= postscan
1884	(75C)	ADDRESS	4	SX@PREJHOLD	"V(PREJHOLD)" JOB Hold prescan
1888	(760)	ADDRESS	4	SX@PRECATAF	"V(PRECATAF)" JOBCLASS QAFF= prescan
1892	(764)	ADDRESS	4	SX@PRECATA2	"V(PRECATA2)" JOBCLASS QAFF= prescan
1896	(768)	ADDRESS	4	SX@PRECAPAF	"V(PRECAPAF)" JOBCLASS QAFF= prescan
1900	(76C)	ADDRESS	4	SX@PSTCQAFF	"V(PSTCQAFF)" JOBCLASS QAFF= postscan
1904	(770)	ADDRESS	4	SX@PSTWSC	"V(PSTWSC)" SRVCLASS postscan

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1908	(774)	ADDRESS	4	SX@PREWSCA2	"V(PREWSCA2)" SRVCLASS QAFF= prescan
1912	(778)	ADDRESS	4	SX@PREWSCAF	"V(PREWSCAF)" SRVCLASS QAFF= prescan
1916	(77C)	ADDRESS	4	SX@PSTWQAFF	"V(PSTWQAFF)" SRVCLASS pstsca for QAFF
1920	(780)	ADDRESS	4	SX@PSTWTYPE	"V(PSTWTYPE)" SRVCLASS TYPE= postscan
1924	(784)	ADDRESS	4	SX@PREWSCCO	"V(PREWSCCO)" SRVCLASS COUNT= prescan
1928	(788)	ADDRESS	4	SX@PREWSCCT	"V(PREWSCCT)" SRVCLASS COUNT= prescan
1932	(78C)	ADDRESS	4	SX@PREWSCMC	"V(PREWSCMC)" SRVCLASS MASCOUNT= prescan
1936	(790)	ADDRESS	4	SX@CLNUPWSC	"V(CLNUPWSC)" SRVCLASS cleanup routine
1940	(794)	ADDRESS	4	SX@PRESRPAF	"V(PRESRPAF)" SRVCLASS ACTIVE= prescan
1944	(798)	ADDRESS	4		Reserved for future use
1948	(79C)	ADDRESS	4		Reserved for future use
1952	(7A0)	ADDRESS	4		Reserved for future use
1956	(7A4)	ADDRESS	4		Reserved for future use
1960	(7A8)	ADDRESS	4		Reserved for future use
1964	(7AC)	ADDRESS	4		Reserved for future use
1968	(7B0)	ADDRESS	4		Reserved for future use
1972	(7B4)	ADDRESS	4		Reserved for future use

Comment

Module HASPCSV exit routines

End of Comment

1976	(7B8)	ADDRESS	4	SX@PRELOAD	"V(PRELOAD)" LOADMOD prescan
1980	(7BC)	ADDRESS	4	SX@PSTLOAD	"V(PSTLOAD)" LOADMOD postscan
1984	(7C0)	ADDRESS	4	SX@PREDMOD	"V(PREDMOD)" MODULE prescan
1988	(7C4)	ADDRESS	4	SX@PREDMODX	"V(PREDMODX)" MODULE EXITPTS= prescan
1992	(7C8)	ADDRESS	4	SX@PRELOADR	"V(PRELOADR)" MODULE/LOADMOD ROUTINES= prescan
1996	(7CC)	ADDRESS	4	SX@PRELOADT	"V(PRELOADT)" MODULE/LOADMOD TABLES= prescan
2000	(7D0)	ADDRESS	4	SX@PRELOADF	"V(PRELOADF)" MODULE ROUTINES= prescan
2004	(7D4)	ADDRESS	4	SX@PREPTF	"V(PREPTF)" MODULE LASTPTF= prescan
2008	(7D8)	ADDRESS	4		Reserved for future use
2012	(7DC)	ADDRESS	4		Reserved for future use
2016	(7E0)	ADDRESS	4		Reserved for future use
2020	(7E4)	ADDRESS	4		Reserved for future use
2024	(7E8)	ADDRESS	4		Reserved for future use
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

Comment

Module HASPMSG exit routines

End of Comment

2048	(800)	ADDRESS	4	SX@PRE496KY	"V(PRE496KY)" \$HASP496 KEYWORD prescan
2052	(804)	ADDRESS	4	SX@PRE536	"V(PRE536)" \$HASP536 prescan
2056	(808)	ADDRESS	4	SX@PRE542	"V(PRE542)" \$HASP542 prescan
2060	(80C)	ADDRESS	4	SX@PREACTM	"V(PREACTM)" General active member list display prescan
2064	(810)	ADDRESS	4	SX@PREMCKPT	"V(PREMCKPT)" General routine to format checkpoint data set or structure name
2068	(814)	ADDRESS	4	SX@MSG607TX	"V(MSG607TX)" \$HASP607 prescan
2072	(818)	ADDRESS	4		Reserved for future use
2076	(81C)	ADDRESS	4		Reserved for future use
2080	(820)	ADDRESS	4		Reserved for future use
2084	(824)	ADDRESS	4		Reserved for future use
2088	(828)	ADDRESS	4		Reserved for future use
2092	(82C)	ADDRESS	4		Reserved for future use
2096	(830)	ADDRESS	4		Reserved for future use
2100	(834)	ADDRESS	4		Reserved for future use
2104	(838)	ADDRESS	4		Reserved for future use
2104	(838)	X'83C'	0	SXADDRLN	"*-SXADDR" Length of the SXADDR table

## \$SXADDR Cross Reference

### \$SXADDR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SX@CLNUPCAT	2EC		SX@PREDNPM	57C	
SX@CLNUPJOE	62C		SX@PREDPMD	4A8	
SX@CLNUPJQE	750		SX@PREDPSPWD	5E8	
SX@CLNUPPAD	3E4		SX@PREDPZPT	474	
SX@CLNUPPRW	B4		SX@PREAQST	164	
SX@CLNUPWSC	790		SX@PREDRDRC	4C4	
SX@CVLDRAIN	23C		SX@PREDRNE	6F4	
SX@MSG607TX	814		SX@PREDRNG	4B8	
SX@PFSQFREE	424		SX@PREDRRC	504	
SX@PFSQUERY	420		SX@PREDRSAF	4D8	
SX@POSTNRM	58C		SX@PREDSAF	3D0	
SX@PREACMEM	360		SX@PREDSAFL	2F4	
SX@PREACTAS	D4		SX@PREDSBEX	98	
SX@PREACTM	80C		SX@PREDSESN	588	
SX@PREACTSZ	2FC		SX@PREDSID	170	
SX@PREANETW	D8		SX@PREDSLCT	45C	
SX@PREAPCE	D0		SX@PREDSPWD	5C4	
SX@PREAPNOD	55C		SX@PREDSSAF	240	
SX@PREAPPL	548		SX@PREDSSI	29C	
SX@PREAPSTK	550		SX@PREDSTAT	4CC	
SX@PREATTR	250		SX@PRE DSTS	254	
SX@PREAUTH	108		SX@PRE DUSEC	234	
SX@PREBRNUM	50		SX@PRE DUSEP	238	
SX@PREBRTUS	54		SX@PRE DVDRN	4FC	
SX@PRECAPAF	768		SX@PRE DVSTK	4BC	
SX@PRECAT	2E0		SX@PRE DWS	4F0	
SX@PRECATAF	760		SX@PREEOMCT	E8	
SX@PRECATA2	764		SX@PREEVDUR	1D0	
SX@PRECATTS	2E4		SX@PREEXIT	8C	
SX@PRECKLEV	2DC		SX@PREEXRTN	94	
SX@PRECKPT	1C		SX@PREFFCHK	334	
SX@PRECKPTN	20		SX@PREFJSAF	744	
SX@PRECKPTT	180		SX@PREFJVOL	730	
SX@PRECKVRS	24		SX@PREFLHOT	338	
SX@PRECMDR	224		SX@PREFNODE	574	
SX@PRECMEMB	56C		SX@PREFNPM	578	
SX@PRECNODE	570		SX@PREFOCLS	638	
SX@PRECONCT	560		SX@PREFOFFS	678	
SX@PRECY LDS	27C		SX@PREFOUTG	644	
SX@PREDAUTH	104		SX@PREFPATH	5F0	
SX@PREDBADT	8		SX@PREFPRMD	4AC	
SX@PREDCCHAR	60		SX@PREFRFC	4C8	
SX@PREDCOMP	58		SX@PREFRRC	508	
SX@PREDCRST	580		SX@PREFSPAF	248	
SX@PREDDVJB	4D0		SX@PREFSSDF	A0	
SX@PREDDVRC	4D4		SX@PREFTGP	724	
SX@PREDELAY	6F8		SX@PREHLDRD	63C	
SX@PREDEMEM	17C		SX@PREHOTS	2D0	
SX@PREDESI	80		SX@PREHPCE	DC	
SX@PREDEST	7C		SX@PREINCL	A8	
SX@PREDEVDR	434		SX@PREINECL	C8	
SX@PREDEVID	33C		SX@PREINIT	B8	
SX@PREDEVNM	F4		SX@PREIPAD	5EC	
SX@PREDFLNO	3F0		SX@PREIREA	E0	
SX@PREDFSS	408		SX@PREISPOL	22C	
SX@PREDL	F8		SX@PREISPSF	244	
SX@PREDJSAF	740		SX@PREISTC	2F8	
SX@PREDJVOL	72C		SX@PREJABS	6E4	
SX@PREDMOD	7C0		SX@PREJABU	6E8	
SX@PREDMODX	7C4		SX@PREJBDUP	6D0	
SX@PREDNEGZ	2D4		SX@PREJCKJO	660	
SX@PREDNET	598		SX@PREJCLAS	6F0	
SX@PREDNOCB	2D8		SX@PREJCLMD	318	



Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SX@PREJDEST	650		SX@PRENODES	5C8	
SX@PREJDMND	668		SX@PRENULL	2BC	
SX@PREJDSC	734		SX@PREODRDY	648	
SX@PREJESLD	130		SX@PREOGDJC	118	
SX@PREJESLS	12C		SX@PREOGDOC	1A4	
SX@PREJHOLD	75C		SX@PREOGDOS	19C	
SX@PREJINIT	6FC		SX@PREOGDSR	3C0	
SX@PREJLOCK	694		SX@PREOGDST	3C8	
SX@PREJOAUP	628		SX@PREOJQX	664	
SX@PREJOBSY	634		SX@PREOPACT	438	
SX@PREJOE	624		SX@PREOTGRP	640	
SX@PREJOERC	654		SX@PREPCEDJ	1C0	
SX@PREJOFFS	674		SX@PREPCEDN	1B8	
SX@PREJOFRC	658		SX@PREPCEDT	1B4	
SX@PREJOOFS	670		SX@PREPCEFW	1C4	
SX@PREJOSTA	65C		SX@PREPCETB	1AC	
SX@PREJPRIF	704		SX@PREPCEWF	1BC	
SX@PREJQAUP	6DC		SX@PREPDRPT	1F4	
SX@PREJQBSY	6E0		SX@PREPDSRV	1F8	
SX@PREJQE	6C4		SX@PREPIDNT	59C	
SX@PREJQEPH	718		SX@PREPIFNL	42C	
SX@PREJQEXQ	714		SX@PREPITCL	C4	
SX@PREJQOFS	66C		SX@PREPITRS	2F0	
SX@PREJQPRI	700		SX@PREPMODE	414	
SX@PREJQRDS	6D4		SX@PREPPATH	5D8	
SX@PREJRBLD	144		SX@PREPRFDT	210	
SX@PREJRCPG	64C		SX@PREPRFFL	1DC	
SX@PREJST	6C8		SX@PREPRFNL	1D8	
SX@PREJSTAT	73C		SX@PREPRFPA	1EC	
SX@PREJTGN	728		SX@PREPRFPC	1D4	
SX@PREJTGP	720		SX@PREPRFPS	1E0	
SX@PRELDED	554		SX@PREPRFQA	1F0	
SX@PRELDEV	36C		SX@PREPRFRS	1C8	
SX@PRELDFLT	384		SX@PREPRFSU	1CC	
SX@PRELDNDE	388		SX@PREPRFWA	1E8	
SX@PRELDVL	368		SX@PREPRFZR	20C	
SX@PRELFNDE	38C		SX@PREPROCL	3DC	
SX@PRELIMIT	2C4		SX@PREPRT	3E8	
SX@PRELINE	374		SX@PREPSJB	C0	
SX@PRELINST	3A0		SX@PREPSOCT	EC	
SX@PRELNERS	39C		SX@PREPSTAT	5DC	
SX@PRELNSTK	380		SX@PREPTF	7D4	
SX@PRELOAD	7B8		SX@PREPVIA	5D4	
SX@PRELOADF	7D0		SX@PREQSUSE	2CC	
SX@PRELOADR	7C8		SX@PRERDEST	4B0	
SX@PRELOADT	7CC		SX@PRERDEV	450	
SX@PRELOLP	690		SX@PRERDSTM	21C	
SX@PRELORDY	688		SX@PRERDVAU	454	
SX@PRELOTOT	68C		SX@PREREGN	11C	
SX@PRELSFRM	410		SX@PRERHELD	15C	
SX@PREMCKPT	810		SX@PRERMT	478	
SX@PREMDEFD	168		SX@PRERMTP	488	
SX@PREMESYS	154		SX@PRERMTRC	46C	
SX@PREMIGDA	26C		SX@PRERMESH	48C	
SX@PREMPERC	270		SX@PRERMST	494	
SX@PREMSNM	184		SX@PRERNNG	4B4	
SX@PREMULFM	498		SX@PRERPRPU	510	
SX@PREMULRC	50C		SX@PRERPZPT	470	
SX@PRENACT	5BC		SX@PRESAPCT	F0	
SX@PRENDDEL	698		SX@PRESBYS	71C	
SX@PRENDPAS	5C0		SX@PRESDFRE	290	
SX@PRENDSTK	5CC		SX@PRESDPCT	294	
SX@PRENIPRT	428		SX@PRESHOST	5F4	
SX@PRENNUM	5B0		SX@PRESJSAF	748	
SX@PRENODE	5B4		SX@PRESKSTK	5E4	

## \$SXADDR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SX@PRESNIFF	328		SX@PSTDEVST	100	
SX@PRESOCK	600		SX@PSTDFCB	400	
SX@PRESOKID	5F8		SX@PSTDSBEX	9C	
SX@PRESPM	FC		SX@PSTDSN	34	
SX@PRESPOOL	228		SX@PSTDUCS	41C	
SX@PRESPST	260		SX@PSTDUPL	150	
SX@PRESRPAF	794		SX@PSTDUPLC	134	
SX@PRESVSES	3B0		SX@PSTDWRKQ	258	
SX@PRESZNET	590		SX@PSTEMEM	178	
SX@PRETDFID	2B0		SX@PSTEST	88	
SX@PRETRCDV	500		SX@PSTEXIT	90	
SX@PRETRCID	2B4		SX@PSTFEN	278	
SX@PREUNIT	4E8		SX@PSTFENO	288	
SX@PREVOLT	40		SX@PSTFSNSP	440	
SX@PREVTRC	398		SX@PSTFSSDF	A4	
SX@PREWAITP	1E4		SX@PSTFSSET	444	
SX@PREWSC	1FC		SX@PSTFSUPD	43C	
SX@PREWSCA	200		SX@PSTFSYNC	448	
SX@PREWSCAF	778		SX@PSTHOLD	160	
SX@PREWSCA2	774		SX@PSTHPRM	320	
SX@PREWSCCO	784		SX@PSTINCDS	B0	
SX@PREWSCCT	788		SX@PSTINCL	AC	
SX@PREWSCMC	78C		SX@PSTINIT	BC	
SX@PREXMEMB	E4		SX@PSTIRTRC	364	
SX@PREZAPJB	30C		SX@PSTJBJNC	13C	
SX@PREZRCHK	330		SX@PSTJBNUM	140	
SX@PRE4STAR	680		SX@PSTJCLMD	31C	
SX@PRE496KY	800		SX@PSTJEXFL	710	
SX@PRE536	804		SX@PSTJOBDF	138	
SX@PRE542	808		SX@PSTJOBNM	4A0	
SX@PRE608	CC		SX@PSTJODSP	630	
SX@PRPRESET	430		SX@PSTJONUM	18C	
SX@PSTACTIV	300		SX@PSTJQASC	758	
SX@PSTADDR	10		SX@PSTJQDSP	6D8	
SX@PSTAPPL	54C		SX@PSTJQPRI	708	
SX@PSTBADTR	C		SX@PSTJQPST	110	
SX@PSTBUF	14		SX@PSTJRNG	148	
SX@PSTCAT	124		SX@PSTJSCHE	754	
SX@PSTCATNW	128		SX@PSTJSCLS	6EC	
SX@PSTCATSC	304		SX@PSTJSRVC	738	
SX@PSTCDCT	518		SX@PSTLDED	558	
SX@PSTCDCTO	51C		SX@PSTLGNA	3A8	
SX@PSTCDCTS	520		SX@PSTLIMIT	2C8	
SX@PSTCF	3C		SX@PSTLIM1	2C0	
SX@PSTCFVQE	6CC		SX@PSTLINE	378	
SX@PSTCHARS	18		SX@PSTLINEA	37C	
SX@PSTCKLCK	48		SX@PSTLINST	3A4	
SX@PSTCKMOD	44		SX@PSTLOAD	7BC	
SX@PSTCKPSP	4C		SX@PSTLSPIN	2A8	
SX@PSTCKPT	28		SX@PSTLTRSS	394	
SX@PSTCKPTN	2C		SX@PSTLTRST	390	
SX@PSTCKVOL	38		SX@PSTMDRC	3C4	
SX@PSTCKVRS	30		SX@PSTMDSAF	3CC	
SX@PSTCMB	64		SX@PSTMESYS	158	
SX@PSTCNCHR	6C		SX@PSTMIND	174	
SX@PSTCOMP	5C		SX@PSTNCHG	5D0	
SX@PSTCONCT	564		SX@PSTNETAC	5A0	
SX@PSTCQAFF	76C		SX@PSTNJEC	5AC	
SX@PSTCSCHE	308		SX@PSTNLM	5A8	
SX@PSTCSTAT	584		SX@PSTNODE	5B8	
SX@PSTCYLDS	280		SX@PSTNOTAB	2AC	
SX@PSTDCNCT	568		SX@PSTNRT	5A4	
SX@PSTDDFCB	3F8		SX@PSTNTRSS	3BC	
SX@PSTDEBUG	78		SX@PSTNTRST	3B8	
SX@PSTDESI	84		SX@PSTOARCH	3D8	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SX@PSTOGDJC	114		SX@PSTUNIT	4E4	
SX@PSTOGDOC	1A8		SX@PSTVJBID	314	
SX@PSTOGDOS	1A0		SX@PSTVOL	4EC	
SX@PSTOUTDF	188		SX@PSTWFORM	49C	
SX@PSTPCETB	1B0		SX@PSTWQAFF	77C	
SX@PSTPJQUE	70C		SX@PSTWS	4F4	
SX@PSTPMEM	324		SX@PSTWSC	770	
SX@PSTPRDFL	3F4		SX@PSTWSCA	204	
SX@PSTPREFIX	68		SX@PSTWSCB	208	
SX@PSTPRFCB	3FC		SX@PSTWTYPE	780	
SX@PSTPRFLS	404		SX@PSTZAPJB	310	
SX@PSTPRMD	4A4		SXADDR	0	
SX@PSTPROCL	3E0		SXADDRID	0	E2E7C1C4
SX@PSTPRT	3EC		SXADDRLN	838	83C
SX@PSTPRTDF	214		SXADDRV	4	
SX@PSTPRTY	14C		SXADDRVN	4	1
SX@PSTPRUCS	418				
SX@PSTPRYO	190				
SX@PSTPUN	44C				
SX@PSTQHPST	10C				
SX@PSTRC	4C0				
SX@PSTRDCHR	70				
SX@PSTRDEV	468				
SX@PSTRDSTM	220				
SX@PSTRDVCM	460				
SX@PSTRDVCO	464				
SX@PSTRECV	218				
SX@PSTREGN	120				
SX@PSTRMT	47C				
SX@PSTRMTA	480				
SX@PSTRMTLN	484				
SX@PSTRMTSH	490				
SX@PSTROPT	194				
SX@PSTRPRPU	514				
SX@PSTSAF	3D4				
SX@PSTSCOPE	74				
SX@PSTSEGLM	198				
SX@PSTSELCT	458				
SX@PSTSFSS	40C				
SX@PSTSICE	2A4				
SX@PSTSJSAF	74C				
SX@PSTSNAME	16C				
SX@PSTSNIFF	32C				
SX@PSTSOCK	5E0				
SX@PSTSOFFS	67C				
SX@PSTSOKST	5FC				
SX@PSTSPDSN	24C				
SX@PSTSPDVL	298				
SX@PSTSPL	284				
SX@PSTSPLDF	274				
SX@PSTSPLDS	28C				
SX@PSTSPOOL	230				
SX@PSTSPSAF	25C				
SX@PSTSPSTX	264				
SX@PSTSPSTAR	268				
SX@PSTSRSAF	4DC				
SX@PSTSRSF2	4E0				
SX@PSTSRVA	3AC				
SX@PSTSTMOD	684				
SX@PSTSVSCK	3B4				
SX@PSTSZNET	594				
SX@PSTTP	2A0				
SX@PSTTRANS	370				
SX@PSTTRCDV	4F8				
SX@PSTTRFLT	2B8				

## \$SXADDR Cross Reference

## \$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
64	(40)	SIGNED	4	SYMCLR5	Callers register 5 data

## \$SYMCB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	ASR1300L	LEVEL AND VERSION OF SYMREC MACRO
113	(71)	BITSTRING	3	ASR1300O	RESERVED
116	(74)	ADDRESS	4	ASR1300S	ADDRESS OF SYMPTOM RECORD
120	(78)	BITSTRING	8	ASR1300R	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
2160	(870)	X'870'	0	SYMLEN	"*-SYM" Length of storage

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>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</p>					
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	SYKNQ	"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	SYKPDD	"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" MTR 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	SYKSJIOB	"X'011B" SJIOB 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

## \$SYMCB Cross Reference

## \$SYMCB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ASR1300L	70	1	SYMDWORK	70	
ASR1300O	71	0	SYMFLAG1	5	
ASR1300R	78	0	SYMGWORK	70	
ASR1300S	74		SYMHEXP	70	
SYKBERT	870	113	SYMHEXPI	70	
SYKBRTAD	870	114	SYMHEXPL	78	
SYKBUFF	870	100	SYMHEXPO	74	
SYKDas	870	11C	SYMID	0	E2E8D440
SYKDASTR	870	11D	SYMLEN	870	870
SYKF256	870	110	SYMLEN3	88	D0
SYKICE	870	111	SYMLEN4	88	D4
SYKICEAD	870	112	SYMLEN5	88	D8
SYKJCT	870	102	SYMLEVEL	4	
SYKJQE	870	101	SYMMAP	70	
SYKJQEO	870	117	SYMOff3	88	D2
SYKMQT	870	10D	SYMOff4	88	D6
SYKMQTR	870	11A	SYMOff5	88	DA
SYKMTR	870	118	SYMRECL	70	
SYKNCC	870	103	SYMSTRTP	6C	
SYKNJET	870	119	SYMSYME	7F4	
SYKNJH	870	10A	SYMSYMR	88	
SYKNMR	870	108	SYMVERSN	4	2
SYKNTQ	870	104	SYMWORK2	78	
SYKPCNT	870	116	SYM1NMSG	5	80
SYKPDD	870	115			
SYKSIGA	870	10F			
SYKSIGE	870	10E			
SYKSJOB	870	11B			
SYKSJSP	870	106			
SYKSMF	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				
SYMCNVTH	84				
SYMCURP	68				



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**\$S35D Programming Interface information**

Programming Interface information

\$S35D

End of Programming Interface information

## \$\$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, FIFOBK

**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.. ....		S35DJOB1	"B'01000000" JOBID needs to be added

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
172	(AC)	SIGNED	4	(0)	
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	
S35DMSG1	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 Programming Interface information**

Programming Interface information

**\$TAB**

End of Programming Interface information

## \$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 TABLNTH  
**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 -- PDDDB LEVEL
		.1.. ....		TABMAJOR	"B'01000000" TRACK-CELLED -- PDDDB 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	TABLNTH	"*-TAB" TAB DSECT LENGTH

## \$TAB Cross Reference

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

## \$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
64	(40)	X'58'	0	TEDTIDTB	"TEDTRIDS+TEDELEN" Trace ID=1-255. (ID=0 is used internally for discarding)

## \$TED Map

### Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
TEDFJOBN	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 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.  
 - None  
**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	M00M1305	"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	"2" ++ XEVENTTYPE.END KEYWORD

## \$TEWA Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2339	(923)	CHARACTER	1	TEWAPLD_XRSV0002	++ RESERVED
2340	(924)	CHARACTER	32	TEWAPLD_XCOMPNAME	++
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
M00M1305	0	920		922	0
TEWA	0		TEWAPLD_XMAXEVENTS	9A0	
TEWA_ACRO	0		TEWAPLD_XMODLEVEL	94C	
TEWA_DATA	FC	FC	TEWAPLD_XMODNAME	944	
TEWA_DATA16	FC	FC	TEWAPLD_XMODOFFSET	954	
TEWA_PCESAVE	F0		TEWAPLD_XREQUEST	921	
TEWA_SAVEAREA			TEWAPLD_XREQUEST_RECORD	921	0
	18		TEWAPLD_XREQUEST_REGISTER	921	1
TEWA_THREAD	F4		TEWAPLD_XRSV0002	923	
TEWA_TOKEN	8		TEWAPLD_XRSV0004	9A8	
TEWA_WORKAREA			TEWAPLD_XTEDTOKEN	960	
	120		TEWAPLD_XUSERDATACOMBI	990	
TEWALEN	0	9C0	TEWAPLD_XVERSION	920	
TEWAPLD	920		TEWAPLD_XWORKAREA_ADDR	9A4	
TEWAPLD_XCOMPNAME	924				
TEWAPLD_XEVENTDESC	970				
TEWAPLD_XEVENTTHREAD	958				
TEWAPLD_XEVENTTYPE	922				
TEWAPLD_XEVENTTYPE_END	922	2			
TEWAPLD_XEVENTTYPE_MID	922	1			
TEWAPLD_XEVENTTYPE_START					

Name	Hex Offset	Hex Value
TEWAPLDL	9A8	A0

## \$TEWA Cross Reference

## \$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



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## \$TGB Heading Information

<b>Common Name:</b>	Track Group Block
<b>Macro ID:</b>	\$TGB
<b>DSECT Name:</b>	TGB
<b>Owning Component:</b>	JES2 (SC1BH)
<b>Eye-Catcher ID:</b>	None if BLOB TGBS \$BTE IF BADTRACK BTE
<b>Storage Attributes:</b>	Subpool: 241 Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M) in common storage (CSA).
<b>Size:</b>	See BTESIZE for BADTRACK BTEs. See TGBBSIZE for BLOB TGBS.
<b>Created by:</b>	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.
<b>Pointed to by:</b>	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.
<b>Serialization:</b>	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.
<b>Function:</b>	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 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 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 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	TLGBSAVE	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 Programming Interface information

Programming Interface information

\$TQE

End of Programming Interface information

## \$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, \$SJBFREE 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 Programming Interface information**

Programming Interface information

**\$TRCA**

End of Programming Interface information

## \$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		Type/Value	Len	Name (Dim)	Description
Dec	Hex				
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.		TRCAEUIU	"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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
10	(A)	.... ...1 1... .... .1.. .... ..1. .... ...1 ....	1	TRCA2PRC TRCAFLG3 TRCA3CFT TRCA3RMT TRCA3AUT TRCA3STR	"B'00000001" JES2 percolated 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	TRCASTR	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

# \$TRCA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
444	(1BC)	ADDRESS	4		ADDRESS OF KEYLST
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 SUMLST PARAM
472	(1D8)	ADDRESS	4		ALET OF SUBPLST PARAM
476	(1DC)	ADDRESS	4		ALET OF KEYLST 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
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Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
580	(244)	ADDRESS	4	TRCATOKN	TOKEN FOR EXIT 26 ESTAE
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 SDUMPX
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		TRCAFLG3	A	
TRCAABND	8	8	TRCAHCPY	B	80
TRCAARGS	488		TRCAHRGF	448	484
TRCAARMT	184		TRCAHRGS	448	
TRCACNCT	B8		TRCAINIT	9	40
TRCACODE	82C		TRCAINTA	9	10
TRCADMPT	39C	3A0	TRCAJOB	24	
TRCADTE	384		TRCALDAD	180	
TRCADTEL	240	240	TRCALENG	848	848
TRCAECB	248		TRCALLEN	0	
TRCAEEIU	8	2	TRCALSTD	0	
TRCAEERA	4D4		TRCALSZ	14	14
TRCAERA	C		TRCAMAFF	832	
TRCAEXIT	9	20	TRCAMODE	4C8	
TRCAFINS	24C		TRCAMODW	150	
TRCAFLAG	8		TRCAMSGW	BC	
TRCAFLG2	9		TRCANOPC	8	80

## \$TRCA Cross Reference

Name	Hex Offset	Hex Value
TRCANSCT	244	
TRCANSST	240	
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	

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## \$TRE Programming Interface information

Programming Interface information

### \$TRE

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

- TRERB

End of Programming Interface information

## \$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 \$SFSWORK 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 TRETCB field which indicates the owning TCB.  
 In SRB mode, TRETCB 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	TRETCB	ADDRESS OF CALLER'S TCB or x'FFFFFFFF' if an SRB
16	(10)	ADDRESS	4	TRERB	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

Comment

### ENQ/DEQ PARAMETER LISTS

End of Comment

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

Comment

MACRO-DATE = 06/24/03

End of Comment

260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	X'104'	0	TRERDRNQ	*** 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	TRERDRNL	** -TRERDRNQ" Length of RDR 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	TRERDRDQ	*** 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	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
260	(104)	ADDRESS	1		PELLAST flag byte. X02113
261	(105)	ADDRESS	1		PELMILEN - RNAME length.

## \$TRE Map

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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	TREJLGD	**"-TREJLGDQ" Length JESLOG DEQ list form
Comment					
MACDATE = 04/03/89					
End of Comment					
260	(104)	SIGNED	4	TRESJBT	(0)
260	(104)	CHARACTER	16		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	TRESJBT	**"-TRESJBT" 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	TRETREN	**"-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					
292	(124)	CHARACTER	168	TRECF1SA	SAVE AREA PLUS JES2 EXTENSIONS
296	(128)	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 FOR EXIT 33 SUPPORT.					
End of Comment					
464	(1D0)	BITSTRING	1	TREDAXDT	EXIT 33 DATASET TYPE BYTE
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		PARM. LIST ADDR. NOT SPECIFIED
476	(1DC)	ADDRESS	4		ALET FOR PARM 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 HASCSOC.					
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	TREREC LM	Failing LMT address
496	(1F0)	ADDRESS	4	TREREC CS	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	TRECR TIM	Time TRE was claimed (made active)
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					



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
680	(2A8)	DBL WORD	8		as TRX
688	(2B0)	X'2B0'	0	TRELEN	"*-TRE" LENGTH OF TRE DSECT

**\$TRE Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
TRE	0		TREEREYE	11C	
TREBRNCH	8		TREERNAME	11C	
TRECF1SA	124		TRERPLRQ	1D4	
TRECF1SV	128	C6F1E2C1	TRERSAVE	24	
TRECKEY	5		TRERSV	3F	
TRECMB	1D4		TRESAPDL	10C	C
TRECPOOL	2C		TRESAPDQ	104	104
TRECRTIM	208		TRESAPIA	1D0	
TRECRTRC	4C		TRESAPID	1D4	
TRECSAVE	14		TRESAPNL	10C	C
TREDAXDT	1D0		TRESAPNQ	104	104
TREDAXPL	1D0		TRESAVE	5C	
TREDOUB	60		TRESFRB	1D4	
TREDDVID	1D0		TRESFWRK	1D0	
TREDDNAM	1D4		TRESJBLK	28	
TREFINT	6	8000	TRESJBTK	104	
TREFIRDR	6	8001	TRESJBTL	119	18
TREFLAG1	44		TRESPINS	1D0	
TREFLAG2	45		TRESSIBP	1C	
TREFLAG3	3D		TRESSIWK	1D0	
TREFLAG4	3E		TRESSIWL	1F4	34
TREFLAG5	4D		TRESVJDL	10C	C
TREFUNC	6		TRESVJDQ	104	104
TREHCCT	18		TRESVJNL	10C	C
TREID	0	E3D9C540	TRESVJNQ	104	104
TREIRWD	1D0		TRETCB	C	
TREJBESL	1E0	14	TRETRDEL	110	C
TREJBEST	1D0		TRETRDEQ	104	108
TREJBKEY	1D0		TRETRENL	114	C
TREJLGD	10C	C	TRETRENQ	108	10C
TREJLGDQ	104	104	TRETRXCR	20	
TREJLGNL	10C	C	TREUSECT	3C	
TREJLGNQ	104	104	TREUSERA	34	
TREKEYSV	30		TREUSERB	38	
TRELEN	2B0	2B0	TREUSER1	46	
TRENQSTR	104		TREVRNUM	4	4
TRENUWRK	1D0		TREVRSN	4	
TREPJRB	1D0		TREWAITE	40	
TRERB	10		TREWASJ	58	
TRERCUR	120		TREWATAWA	50	
TRERDRDL	10C	C	TREX30TP	47	
TRERDRDQ	104	104	TRE1NDMP	44	1
TRERDRNL	10C	C	TRE1NIRB	44	4
TRERDRNQ	104	104	TRE1SENQ	44	10
TRERECAD	1E8		TRE1SSI	44	20
TRERECES	1F0		TRE1STAX	44	2
TRERECDW	C8		TRE1TRAC	44	40
TRERECFA	1D8		TRE1TRAK	44	8
TRERECFN	1E0		TRE1TYPE	44	80
TRERECHD	5D		TRE2CNCL	45	40
TRERECHL	5C		TRE2LHLD	45	20
TRERECML	1EC		TRE2LKST	45	1
TRERECRA	1D0		TRE2LKUS	45	4
TRERECSA	1D4		TRE2LL	45	2
TRERECSC	1E4		TRE2LOG	45	8
TRERECUC	1E6		TRE2TERM	45	10
TRERECWK	1DC		TRE2X33	45	80

## \$TRE Cross Reference

Name	Hex Offset	Hex Value
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
TRE4SMMSG	3E	4
TRE4SSJB	3E	1
TRE4TRNQ	3E	80
TRE4WPUR	3E	20
TRE4WSPN	3E	10
TRE5BLSC	4D	40
TRE5IRDR	4D	80
TRE5SDBL	4D	20

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## \$TRX Programming Interface information

Programming Interface information

\$TRX

End of Programming Interface information

## \$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	TRXRVCVRY	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
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
-----	-----	------------	-----	------------	-------------

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
TRX1PERC	7	8
TRX1RCVY	7	10
TRX1SSI	7	80

---

## \$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 Programming Interface information**

Programming Interface information

**\$WARMWRK**

End of Programming Interface information

## \$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 \$WARMMPCE 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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
372	(174)	ADDRESS	4	WRMOTHER	Addr of mother warm start PCE
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	WRMJQE0F	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
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

## \$WARMWRK Cross Reference



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**\$WAVE Programming Interface information**

Programming Interface information

**\$WAVE**

End of Programming Interface information

## \$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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
45	(2D)	X'9'	0	WAVRXTRT	"9" RACROUTE REQUEST=EXTRACT
45	(2D)	X'A'	0	WAVRAUD	"10" RACROUTE REQUEST=AUDIT
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" Subtasked \$RACROUT failed
		.1.. ..		WAV1WAIT	"B'01000000" WAIT=YES requested
		.... ..1.		WAV1NCOD	"B'00000010" User return code to be used
		.... ..1		WAV1BYPS	"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	IHB1325A	***
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	ICH01334	***
168	(A8)	ADDRESS	1	IHB1325C	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

# \$WAVE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
181	(B5)	ADDRESS	3		
184	(B8)	ADDRESS	4		- OLD VOLSER ADDR FIELD
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	IHB1335A	***
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	ICH01344	***
168	(A8)	ADDRESS	1	IHB1335C	LIST LENGTH

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

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

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End of Comment

64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1345A	***
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

# \$WAVE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	ICH01354	***
168	(A8)	ADDRESS	4	IHB1345C	- 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	ICH1354A (0)	

Comment

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

End of Comment

64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1355A	***
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	ICH01364	***
168	(A8)	ADDRESS	4	IHB1355C	- 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	ICH1364A (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	IHB1365A	***
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	ICH01374	***
168	(A8)	ADDRESS	1	IHB1365C	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		- OI DCARD 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	IHB1375A	***
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	ICH01384	***
168	(A8)	ADDRESS	1	IHB1375C	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		- OIDCARD ADDRESS FIELD
208	(D0)	ADDRESS	4		- TERMID 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	IHB1385A	***
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	ICH01394	***
168	(A8)	ADDRESS	1	IHB1385C	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		- TERMIID 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	IHB1395A	***
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	IHB1395C (0)	
168	(A8)	SIGNED	4	ICH1404A (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	ICH1404B	*** 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	ICH1404C (0)	END OF PARAMETER LIST
212	(D4)	SIGNED	2	ICH1404D (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	IHB1413A	***
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	IHB1413C (0)	

## \$WAVE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
168	(A8)	SIGNED	4	ICH1422A (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	ICH1422B	*** 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	ICH1422C (0)	END OF PARAMETER LIST
212	(D4)	SIGNED	2	ICH1422D (0)	

Comment

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

End of Comment

64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1431A	***
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	IHB1431C (0)	START OF RACAUDIT PLIST
168	(A8)	ADDRESS	2	ICH1440B	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	ICH1440F (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	IHB1446A	***
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	ICH01455	***
168	(A8)	BITSTRING	1	IHB1446C	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
ICH01334	A8	A8	WAVCA07	6C	
ICH01344	A8	A8	WAVCA08	70	
ICH01354	A8	A8	WAVCA09	74	
ICH01364	A8	A8	WAVCA10	78	
ICH01374	A8	A8	WAVCA11	7C	
ICH01384	A8	A8	WAVCA12	80	
ICH01394	A8	A8	WAVCCRN	40	
ICH01455	A8	A8	WAVCMMSG	5C	
ICH1354A	C0		WAVCNTRL	54	8
ICH1364A	C0		WAVCREAD	54	2
ICH1404A	A8		WAVCSSCM	4C	
ICH1404B	B0	B4	WAVCTKN	44	
ICH1404C	D4		WAVCTXT	48	
ICH1404D	D4		WAVCUCMI	58	
ICH1422A	A8		WAVCUPD	54	4
ICH1422B	B0	B4	WAVE	0	
ICH1422C	D4		WAVEID	0	E6C1E5C5
ICH1422D	D4		WAVEND	350	
ICH1440B	A8		WAVEPRIO	5	
ICH1440F	D8		WAVERSN	4	1
IHB1325A	40	40	WAVESQD	8	
IHB1325C	A8		WAVEXITP	2C	
IHB1335A	40	40	WAVEXTLA	34	
IHB1335C	A8		WAVFLAG1	30	
IHB1345A	40	40	WAVFUNCD	24	
IHB1345C	A8		WAVJMSKA	28	
IHB1355A	40	40	WAVLEN	350	350
IHB1355C	A8		WAVLEVEL	4	
IHB1365A	40	40	WAVRACCD	18	
IHB1365C	A8		WAVRACLN	10C	CC
IHB1375A	40	40	WAVRACRC	14	
IHB1375C	A8		WAVRACRP	40	
IHB1385A	40	40	WAVRAUD	2D	A
IHB1385C	A8		WAVRAUTH	2D	1
IHB1395A	40	40	WAVRCBA	20	
IHB1395C	A8		WAVRCBN	1C	
IHB1413A	40	40	WAVRCMD	2D	8
IHB1413C	A8		WAVRDCLS	30C	
IHB1431A	40	40	WAVRDIRA	2D	C
IHB1431C	A8		WAVRDNAM	314	
IHB1446A	40	40	WAVRDSNM	315	
IHB1446C	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

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
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
WAVXMSGA	2C	20
WAVXUSR	2C	40
WAV1BYPS	30	1
WAV1NCOD	30	2
WAV1SUBF	30	80
WAV1WAIT	30	40



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**\$WLMD Programming Interface information**

Programming Interface information

**\$WLMD**

End of Programming Interface information

## \$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
240	(F0)	X'40'	0	WLMGNCAT	"64" Number of CAT pointers
368	(170)	ADDRESS	4	WLMGCATS (0)	CAT pointers
624	(270)	BITSTRING	1	WLMGFLG1	Flags
		1... ....		WLMG1CAT	"B'10000000" CAT(s) obtained
		.1.. ....		WLMG1PSX	"B'01000000" \$POSTXEQ required
		..1. ....		WLMG1SM	"B'00100000" This is single member MAS
		...1 ....		WLMG1DST	"B'00010000" \$DISTERR was done once
628	(274)	SIGNED	4	WLMGSTON (0)	Stolen counts for current QGET
756	(2F4)	SIGNED	2	WLMGMAFG	Multi-Aff goal current QGET
758	(2F6)	SIGNED	2	WLMASID	WLM ASID for future use
760	(2F8)	ADDRESS	4	WLMGDJBS	Address of first DJB obtained by WLMGOALS
764	(2FC)	SIGNED	4	WLMGJQUE	Number of jobs ready to run
768	(300)	BITSTRING	4	WLMGSECT	Selection mask before goal computation
772	(304)	BITSTRING	4	WLMGSECA	Selection mask during goal computation
776	(308)	BITSTRING	4	WLMGWACT	Members that can select WLM work (e.g. not \$P, not \$P XEQ)
780	(30C)	BITSTRING	1	WLMGNISY	Members not in independent mode

Comment

Data areas for calling WLM services

End of Comment					
784	(310)	DBL WORD	8	WLMDATAD (0)	General double word area
784	(310)	SIGNED	4	WLMDATA1	General data area 1
788	(314)	SIGNED	4	WLMDATA2	General data area 2
792	(318)	SIGNED	4	WLMDATA3	General data area 3
796	(31C)	SIGNED	4	WLMDATA4	General data area 4
796	(31C)	X'310'	0	WLMDATAX	"WLMDATA1,16,C'X'" 16 byte work area
800	(320)	SIGNED	4	WLMRETC	WLM service return code
804	(324)	SIGNED	4	WLMRESCD	WLM service reason code
808	(328)	BITSTRING	1	WLMLFUNC	Last function called (used for HASP712 message)
808	(328)	X'1'	0	WLMFCONN	"1" IWMCNNECT - connect
808	(328)	X'2'	0	WLMFPQRY	"2" IWMPQRY - query policy
808	(328)	X'3'	0	WLMFDISC	"3" IWMDISC - disconnect
808	(328)	X'4'	0	WLMFBREG	"4" IWMBREG - Registration
808	(328)	X'5'	0	WLMFDREG	"5" IWMBDREG - Deegistration
808	(328)	X'6'	0	WLMFCLAS	"6" IWMCLASFY - Classify
809	(329)	BITSTRING	3		Reserved

Comment

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

End of Comment					
812	(32C)	SIGNED	4	WLMBLDM (0)	Control block ID
816	(330)	BITSTRING	4		Console ID
820	(334)	ADDRESS	4		Address of the CART
824	(338)	ADDRESS	4		Pointer for JOBID
828	(33C)	ADDRESS	4		Control block address
832	(340)	ADDRESS	4		Display routine address
836	(344)	ADDRESS	4	(6)	6 word work area
860	(35C)	ADDRESS	4		Caller's R11 value
864	(360)	BITSTRING	2		ROUT code for Message
866	(362)	BITSTRING	2		Not used

## \$WLMD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
868	(364)	CHARACTER	4		Message ID
872	(368)	CHARACTER	1		Separator character
873	(369)	ADDRESS	1		Flag byte 1
874	(36A)	ADDRESS	1		'DISPER'
875	(36B)	ADDRESS	1		Flag byte 2
876	(36C)	ADDRESS	1		Flag byte 3
877	(36D)	CHARACTER	8		Symbolic name of dest.
885	(375)	BITSTRING	15		Not used
900	(384)	ADDRESS	4	(0)	Ensure multiple of 4
900	(384)	ADDRESS	2	(0)	
0	(0)	X'58'	0	WLMBLDML	"*-WLMBLDM" Length of \$BLDMSG MF=L
900	(384)	SIGNED	4	WLMPORG (0)	Org label for inline parm lists

Comment

-----  
WLM connect  
-----

End of Comment

0	(0)	X'388'	0	M00M1327	"WLMCONNL" ++ IWMCONN NAME
904	(388)	DBL WORD	8	WLMCONNL (0)	++ IWMCONN PARM LIST
904	(388)	BITSTRING	1	WLMCONNL_XVERSION	++ INPUT XVERSION
905	(389)	BITSTRING	1	WLMCONNL_XCONNECT_OPTIONS	++ FIELD_LABEL
		1... ....		WLMCONNL_XCONNTKNKEYP_VALUE	"B'10000000" ++ XCONNTKNKEYP.VALUE KEYWORD
906	(38A)	CHARACTER	1	WLMCONNL_XRSV0002	++ RESERVED XRSV0002
907	(38B)	BITSTRING	1	WLMCONNL_XCONNTKNKEY	++ XCONNTKNKEY
908	(38C)	CHARACTER	4	WLMCONNL_XSUBSYS	++ XSUBSYS
912	(390)	ADDRESS	4	WLMCONNL_XSUBSYSNM_ADDR	++ ADDR XSUBSYSNM
916	(394)	CHARACTER	4	WLMCONNL_XRSV000C	++ RESERVED XRSV000C
920	(398)	SIGNED	4	WLMCONNL_XNUMBERASCB	++ XNUMBERASCB
924	(39C)	ADDRESS	4	WLMCONNL_XTOPOLOGY_ADDR	++ ADDR XTOPOLOGY
928	(3A0)	CHARACTER	4	WLMCONNL_XRSV0018	++ RESERVED XRSV0018
932	(3A4)	BITSTRING	4	WLMCONNL_XCONNTKN	++ XCONNTKN
936	(3A8)	ADDRESS	4	WLMCONNL_XQMGR_EXIT@	++ XQMGR_EXIT@
936	(3A8)	X'3AC'	0	WLMCONNL_PL_END	*** ++ END OF BASE PLIST
936	(3A8)	X'24'	0	WLMCONNLL	"*-WLMCONNL" ++ LENGTH OF PLIST

Comment

IWMCONN-4

-----  
WLM Disconnect  
-----

End of Comment

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MACDATE -11/09/04-<0>					
End of Comment					
0	(0)	X'388'	0	M00M1329	"WLMDISCL" ++ IWMDISC NAME
904	(388)	DBL WORD	8	WLMDISCL (0)	++ IWMDISC PARM LIST
904	(388)	BITSTRING	1	WLMDISCL_XVERSION	++ INPUT XVERSION
905	(389)	BITSTRING	1	WLMDISCL_XOPTIONS	++ FIELD_LABEL XOPTIONS
906	(38A)	CHARACTER	2	WLMDISCL_XRSV0002	++ RESERVED XRSV0002
908	(38C)	BITSTRING	4	WLMDISCL_XCONNTKN	++ XCONNTKN
912	(390)	CHARACTER	4	WLMDISCL_XRSV0008	++ RESERVED XRSV0008
912	(390)	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'388'	0	M00M1330	"WLMPQRYL" ++ IWMPQRY NAME
904	(388)	DBL WORD	8	WLMPQRYL (0)	++ IWMPQRY PARM LIST
904	(388)	BITSTRING	1	WLMPQRYL_XVERSION	++ INPUT XVERSION
905	(389)	CHARACTER	3	WLMPQRYL_XRSV0001	++ RESERVED XRSV0001
908	(38C)	ADDRESS	4	WLMPQRYL_XANSAREA_ADDR	++ ADDR XANSAREA
912	(390)	SIGNED	4	WLMPQRYL_XANSAREA_ALET	++ ALET XANSAREA
916	(394)	SIGNED	4	WLMPQRYL_XANSLEN	++ XANSLEN
920	(398)	SIGNED	4	WLMPQRYL_XQUERYLEN	++ XQUERYLEN
924	(39C)	CHARACTER	4	WLMPQRYL_XRSV0014	++ RESERVED XRSV0014
924	(39C)	X'18'	0	WLMPQRYLL	"*-WLMPQRYL" ++ LENGTH OF PLIST
Comment					
IWMPQRY-0					
-----					
WLM queue registration					
-----					
End of Comment					

# \$WLMD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MACDATE -04/02/97-<0>					
End of Comment					
0	(0)	X'388'	0	M00M1331	"WLMQREG" ++ IWMBREG NAME
904	(388)	DBL WORD	8	WLMQREG (0)	++ IWMBREG PARM LIST
904	(388)	BITSTRING	1	WLMQREG_XVERSION	++ INPUT XVERSION
905	(389)	CHARACTER	1	WLMQREG_XRSV0001	++ RESERVED XRSV0001
906	(38A)	BITSTRING	2	WLMQREG_XPLISTLEN	++ INPUT XPLISTLEN
908	(38C)	CHARACTER	16	WLMQREG_XQTOKEN	++ XQTOKEN
924	(39C)	CHARACTER	32	WLMQREG_XSVDEF_ID	++ XSVDEF_ID
956	(3BC)	ADDRESS	4	WLMQREG_XAPPLENV_ADDR	++ ADDR XAPPLENV
960	(3C0)	CHARACTER	8	WLMQREG_XSRVCLSNM	++ XSRVCLSNM
968	(3C8)	SIGNED	4	WLMQREG_XNUMSYS	++ XNUMSYS
972	(3CC)	CHARACTER	8	WLMQREG_XRSV0044	++ RESERVED XRSV0044
972	(3CC)	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'388'	0	M00M1332	"WLMQDREG" ++ IWMBDREG NAME
904	(388)	DBL WORD	8	WLMQDREG (0)	++ IWMBDREG PARM LIST
904	(388)	BITSTRING	1	WLMQDREG_XVERSION	++ INPUT XVERSION
905	(389)	CHARACTER	1	WLMQDREG_XRSV0001	++ RESERVED XRSV0001
906	(38A)	BITSTRING	2	WLMQDREG_XPLISTLEN	++ INPUT XPLISTLEN
908	(38C)	CHARACTER	16	WLMQDREG_XQTOKEN	++ XQTOKEN
924	(39C)	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
925	(39D)	CHARACTER	7	WLMQDREG_XRSV0015	++ RESERVED XRSV0015
925	(39D)	X'1C'	0	WLMQDREGL	"*-WLMQDREG" ++ LENGTH OF PLIST

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
IWMBDREG-0					
----- WLM service class validation -----					
End of Comment					
Comment					
MACDATE -03/27/97-<0>					
End of Comment					
0	(0)	X'388'	0	M00M1333	"WLMBSET" ++ IWMBSET NAME
904	(388)	DBL WORD	8	WLMBSET (0)	++ IWMBSET PARM LIST
904	(388)	BITSTRING	1	WLMBSET_XVERSION	++ INPUT XVERSION
905	(389)	CHARACTER	1	WLMBSET_XRSV001	++ RESERVED XRSV001
906	(38A)	BITSTRING	2	WLMBSET_XPLISTLEN	++ INPUT XPLISTLEN
908	(38C)	BITSTRING	4	WLMBSET_XSERVCLS	++ XSERVCLS
912	(390)	CHARACTER	8	WLMBSET_XSRVCLSNM	++ XSRVCLSNM
920	(398)	CHARACTER	4	WLMBSET_XRSV002	++ RESERVED XRSV002
920	(398)	X'14'	0	WLMBSETL	"*-WLMBSET" ++ LENGTH OF PLIST
Comment					
IWMBSET-0					
----- WLM scheduling environment availability testing -----					
End of Comment					
0	(0)	X'388'	0	M00M1334	"WLMBSCHE" ++ IWMBSEDES NAME
904	(388)	DBL WORD	8	WLMBSCHE (0)	++ IWMBSEDES PARM LIST
904	(388)	BITSTRING	1	WLMBSCHE_XVERSION	++ INPUT XVERSION
905	(389)	CHARACTER	1	WLMBSCHE_XRSV0001	++ RESERVED XRSV0001
906	(38A)	BITSTRING	2	WLMBSCHE_XPLISTLEN	++ INPUT XPLISTLEN
908	(38C)	CHARACTER	16	WLMBSCHE_XSCHENV	++ XSCHENV
924	(39C)	CHARACTER	8	WLMBSCHE_XSYSTEM_NAME	++ XSYSTEM_NAME
932	(3A4)	CHARACTER	16	WLMBSCHE_XRSV001C	++ RESERVED XRSV001C
932	(3A4)	X'2C'	0	WLMBSCHEL	"*-WLMBSCHE" ++ LENGTH OF PLIST
Comment					
IWMBSEDES-0					
----- WLM scheduling environment definition testing -----					
End of Comment					

# \$WLMD Map

## Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MACDATE -04/02/97-<0>					
End of Comment					
0	(0)	X'388'	0	M00M1335	"WLMSEVAL" ++ IWMSEVAL NAME
904	(388)	DBL WORD	8	WLMSEVAL (0)	++ IWMSEVAL PARM LIST
904	(388)	BITSTRING	1	WLMSEVAL_XVERSION	++ INPUT XVERSION
905	(389)	CHARACTER	1	WLMSEVAL_XRSV0001	++ RESERVED XRSV0001
906	(38A)	BITSTRING	2	WLMSEVAL_XPLISTLEN	++ INPUT XPLISTLEN
908	(38C)	CHARACTER	16	WLMSEVAL_XSCHENV	++ XSCHENV
924	(39C)	CHARACTER	16	WLMSEVAL_XRSV0014	++ RESERVED XRSV0014
924	(39C)	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'388'	0	M00M1336	"WLBLOC" ++ IWMBLOC NAME
904	(388)	DBL WORD	8	WLBLOC (0)	++ IWMBLOC PARM LIST
904	(388)	BITSTRING	1	WLBLOC_XVERSION	++ INPUT XVERSION
905	(389)	CHARACTER	1	WLBLOC_XRSV0001	++ RESERVED XRSV0001
906	(38A)	BITSTRING	2	WLBLOC_XPLISTLEN	++ INPUT XPLISTLEN
908	(38C)	CHARACTER	16	WLBLOC_XQTOKEN	++ XQTOKEN
924	(39C)	ADDRESS	4	WLBLOC_XSYSTEML_ADDR	++ ADDR XSYSTEML
928	(3A0)	SIGNED	4	WLBLOC_XNUMSYS	++ XNUMSYS
932	(3A4)	CHARACTER	8	WLBLOC_XSRVCLSNM	++ XSRVCLSNM
940	(3AC)	CHARACTER	8	WLBLOC_XSYSNAME	++ XSYSNAME
948	(3B4)	CHARACTER	8	WLBLOC_XRSV0024	++ RESERVED XRSV0024
948	(3B4)	X'34'	0	WLBLOCL	"*-WLBLOC" ++ LENGTH OF PLIST
Comment					
IWMBLOC-0					
End of Comment					
980	(3D4)	SIGNED	4	WLMSNUM	Number of MVS systems
984	(3D8)	CHARACTER	8	WLMSLIST (0)	List of MVS system names



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
WLM demand batch request processing					
-----					
End of Comment					
Comment					
-----					
MACDATE -02/04/97-<0>					
-----					
End of Comment					
0	(0)	X'388'	0	M00M1337	"WLMBRST" ++ IWMRESET NAME
904	(388)	DBL WORD	8	WLMBRST (0)	++ IWMRESET PARM LIST
904	(388)	BITSTRING	1	WLMBRST_XVERSION	++ INPUT XVERSION
905	(389)	CHARACTER	1	WLMBRST_XRSV0001	++ RESERVED XRSV0001
906	(38A)	BITSTRING	2	WLMBRST_XPLISTLEN	++ INPUT XPLISTLEN
908	(38C)	CHARACTER	8	WLMBRST_XJOBTOKEN	++ XJOBTOKEN
916	(394)	CHARACTER	16	WLMBRST_XQTOKEN	++ XQTOKEN
932	(3A4)	CHARACTER	8	WLMBRST_XRSV001C	++ RESERVED XRSV001C
932	(3A4)	X'24'	0	WLMBRSTQL	"*-WLMBRST" ++ LENGTH OF PLIST
-----					
Comment					
-----					
IWMBRST-0					
-----					
WLM service class reset processing					
-----					
End of Comment					
Comment					
-----					
MACDATE -12/18/03-<0>					
-----					
End of Comment					
0	(0)	X'388'	0	M00M1338	"WLMBRST" ++ IWMRESET NAME
904	(388)	DBL WORD	8	WLMBRST (0)	++ IWMRESET PARM LIST
904	(388)	BITSTRING	1	WLMBRST_XVERSION	++ INPUT XVERSION
905	(389)	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
906	(38A)	BITSTRING	2	WLMBRST_XPLISTLEN	++ INPUT XPLISTLEN

## \$WLMD Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
908	(38C)	CHARACTER	8	WLMBRST_XJOBNAME	++ XJOBNAME
916	(394)	BITSTRING	2	WLMBRST_XASID	++ XASID
918	(396)	BITSTRING	2	WLMBRST_XPERFORM	++ XPERFORM
920	(398)	CHARACTER	8	WLMBRST_XSRVCLASS	++ XSRVCLASS
928	(3A0)	CHARACTER	8	WLMBRST_XUSERID	++ XUSERID
936	(3A8)	CHARACTER	8	WLMBRST_XPRODUCT	++ XPRODUCT
936	(3A8)	X'28'	0	WLMBRSTL	**"WLMBRST" ++ LENGTH OF PLIST

Comment

IWMRESET-0

End of inline parm lists

End of Comment

1240	(4D8)	X'384'	0	WLMPARM	"WLMPORG,*-WLMPORG" Label for inline parm lists
1240	(4D8)	DBL WORD	8	(0)	Alignment
1240	(4D8)	X'4D8'	0	WLMSIZE	**"WLMD" Size of bundle

## \$WLMD Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
M00M1327	0	388			38C
M00M1329	0	388	WLBREQ_XPLISTLEN		
M00M1330	0	388			38A
M00M1331	0	388	WLBREQ_XQTOKEN		
M00M1332	0	388			394
M00M1333	0	388	WLBREQ_XRSV0001		
M00M1334	0	388			389
M00M1335	0	388	WLBREQ_XRSV001C		
M00M1336	0	388			3A4
M00M1337	0	388	WLBREQ_XVERSION		
M00M1338	0	388			388
WLMASID	2F6		WLBREQQL	3A4	24
WLMBLDM	32C	C2D3C440	WLMBRST		388
WLMBLDML	0	58	WLMBRST_KEYUSED_ASID		
WLMBLOC	388				389 4
WLMBLOC_XNUMSYS			WLMBRST_KEYUSED_JOBNAME		
	3A0				389 8
WLMBLOC_XPLISTLEN			WLMBRST_KEYUSED_PERFORM		
	38A				389 40
WLMBLOC_XQTOKEN			WLMBRST_KEYUSED_SRVCLASS		
	38C				389 80
WLMBLOC_XRSV0001			WLMBRST_XASID		
	389				394
WLMBLOC_XRSV0024			WLMBRST_XFUNCTION QUIESCE		
	3B4				389 20
WLMBLOC_XSRVCLSNM			WLMBRST_XFUNCTION_RESUME		
	3A4				389 10
WLMBLOC_XSYSNAME			WLMBRST_XJOBNAME		
	3AC				38C
WLMBLOC_XSYSTEML_ADDR			WLMBRST_XOPTIONS		
	39C				389
WLMBLOC_XVERSION			WLMBRST_XPERFORM		
	388				396
WLMBLOCL	3B4	34	WLMBRST_XPLISTLEN		
WLBREQ	388				38A
WLBREQ_XJOBTOKEN			WLMBRST_XPRODUCT		

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
	3A8			388	
WLMBRST_XSRVCLASS	398		WLMCONNLL	3A8	24
WLMBRST_XUSERID			WLMCURSV	28	
	3A0		WLMD	0	
WLMBRST_XVERSION			WLMDATAD	310	
	388		WLMDATAX	31C	310
WLMBRSTL	3A8	28	WLMDATA1	310	
WLMBSCHE	388		WLMDATA2	314	
WLMBSCHE_XPLISTLEN			WLMDATA3	318	
	38A		WLMDATA4	31C	
WLMBSCHE_XRSV0001			WLMDISCL	388	
	389		WLMDISCL_XCONNTKN		
WLMBSCHE_XRSV001C				38C	
	3A4		WLMDISCL_XOPTIONS		
WLMBSCHE_XSCHENV				389	
	38C		WLMDISCL_XRSV0002		
WLMBSCHE_XSYSTEM_NAME				38A	
	39C		WLMDISCL_XRSV0008		
WLMBSCHE_XVERSION				390	
	388		WLMDISCL_XVERSION		
WLMBSCHEL	3A4	2C		388	
WLMBSET	388		WLMDISCLL	390	C
WLMBSET_XPLISTLEN			WLMFBREG	328	4
	38A		WLMFCLAS	328	6
WLMBSET_XRSV001			WLMFCONN	328	1
	389		WLMFDISC	328	3
WLMBSET_XRSV002			WLMFDREG	328	5
	398		WLMFLAG1	58	
WLMBSET_XSERVCLS			WLMFPQRY	328	2
	38C		WLMGCATS	170	
WLMBSET_XSRVCLSNM			WLMGCOUN	F0	70
	390		WLMGDJBS	2F8	
WLMBSET_XVERSION			WLMGFLG1	270	
	388		WLMGJQUE	2FC	
WLMBSETL	398	14	WLMGMAFF	F0	
WLMCONN	4		WLMGMAFG	2F4	
WLMCONNLL	388		WLMGNCAT	F0	40
WLMCONNLL_PL_END			WLMGNISY	30C	
	3A8	3AC	WLMGSAFF	70	
WLMCONNLL_XCONNECT_OPTIONS			WLMGSECA	304	
	389		WLMGSECT	300	
WLMCONNLL_XCONNTKN			WLMGSTON	274	
	3A4		WLMGWACT	308	
WLMCONNLL_XCONNTKNKEY			WLMG1CAT	270	80
	38B		WLMG1DST	270	10
WLMCONNLL_XCONNTKNKEYP_VALUE			WLMG1PSX	270	40
	389	80	WLMG1SM	270	20
WLMCONNLL_XNUMBERASCB			WLMDID	0	
	398		WLMJBQSZ	64	
WLMCONNLL_XQMGR_EXIT@			WLMJSBQS	60	
	3A8		WLMJSDSR	5C	
WLMCONNLL_XRSV000C			WLMJSWLN	6C	
	394		WLMJSWRK	68	
WLMCONNLL_XRSV0002			WLMJTOK	48	
	38A		WMLLFUNC	328	
WLMCONNLL_XRSV0018			WLMPARM	4D8	384
	3A0		WLMPORG	384	
WLMCONNLL_XSUBSYS			WLMPQRYL	388	
	38C		WLMPQRYL_XANSAREA_ADDR		
WLMCONNLL_XSUBSYSNM_ADDR				38C	
	390		WLMPQRYL_XANSAREA_ALET		
WLMCONNLL_XTOPOLOGY_ADDR				390	
	39C		WLMPQRYL_XANSLEN		
WLMCONNLL_XVERSION				394	
			WLMPQRYL_XQUERYLEN		

## \$WLMD Cross Reference

Name	Hex Offset	Hex Value
	398	
WLMPQRYL_XRSV0001		
	389	
WLMPQRYL_XRSV0014		
	39C	
WLMPQRYL_XVERSION		
	388	
WLMPQRYLL	39C	18
WLMQDREG	388	
WLMQDREG_XDEREG_OPTIONS		
	39C	
WLMQDREG_XPLISTLEN		
	38A	
WLMQDREG_XQTOKEN		
	38C	
WLMQDREG_XRSV0001		
	389	
WLMQDREG_XRSV0015		
	39D	
WLMQDREG_XTYPE_ALL		
	39C	40
WLMQDREG_XTYPE_SPECIFIC		
	39C	80
WLMQDREG_XVERSION		
	388	
WLMQDREGL	39D	1C
WLMQREG	388	
WLMQREG_XAPPLENV_ADDR		
	3BC	
WLMQREG_XNUMSYS		
	3C8	
WLMQREG_XPLISTLEN		
	38A	
WLMQREG_XQTOKEN		
	38C	
WLMQREG_XRSV0001		
	389	
WLMQREG_XRSV0044		
	3CC	
WLMQREG_XSRVCLSNM		
	3C0	
WLMQREG_XSVDEF_ID		
	39C	
WLMQREG_XVERSION		
	388	
WLMQREGL	3CC	4C
WLMRESCD	324	
WLMRETCD	320	
WLMSEVAL	388	
WLMSEVAL_XPLISTLEN		
	38A	
WLMSEVAL_XRSV0001		
	389	
WLMSEVAL_XRSV0014		
	39C	
WLMSEVAL_XSCHENV		
	38C	
WLMSEVAL_XVERSION		
	388	
WLMSEVALL	39C	24
WLMSIZE	4D8	4D8
WLMSLIST	3D8	
WLMSNUM	3D4	
WLMVDEF	8	
WLM1DEF	58	80

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**\$WSA Programming Interface information**

Programming Interface information

**\$WSA**

End of Programming Interface information

## \$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	100	WSAWKL1	Save area for exact mtch WS
252	(FC)	CHARACTER	100	WSAWKL2	Save area for priority WS
352	(160)	BITSTRING	1	WSADELIM	FLAG BYTE FOR WS LIST BUILD
353	(161)	BITSTRING	1	WSAASLAS	FLAG BYTE FOR AFTER SLASH
354	(162)	CHARACTER	80	WSASVLST	SAVE AREA FOR WS LIST
434	(1B2)	BITSTRING	1	WSAFLG	INIT AND COMMAND WORK FLAG
436	(1B4)	ADDRESS	4	WSABSTWK	ADDRESS OF BEST WORK FOUND
440	(1B8)	BITSTRING	1	WSACLVAL	VALUE OF CLASS IN WORK LIST
441	(1B9)	BITSTRING	1	WSABCLVL	BEST WORK CLASS VALUE
442	(1BA)	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
442	(1BA)	X'1F'	0	WSA1CURQ	"WSA1CNET+WSA1CHLD+WSA1CLOC+WSA1CRMT+WSA1CUSR" Composition of all Qs
443	(1BB)	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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... ..1.		WSA2QQTM	"B'00000010" Terminate current Q scan
		.... ..1		WSA2BSRC	"B'00000001" Best route code found in current queue
444	(1BC)	BITSTRING	1	WSAFLAG3	\$/GET\$/POST work flag 3
		1... ....		WSA3GJOA	"B'10000000" WSAJOA obtained by WSSERV
445	(1BD)	BITSTRING	3		Reserved
448	(1C0)	BITSTRING	24	WSABSTV	Best criteria value
472	(1D8)	BITSTRING	24	WSACURV	Current criteria value
496	(1F0)	BITSTRING	24	WSAWRMSK	Highest possible value mask
520	(208)	ADDRESS	4	WSATABS	ADDR OF WS TABLES
		1... ....		WSAUSER	"X'80" WS USER CRITERION IND
524	(20C)	SIGNED	4	WSALLIM	Number of lines chained
528	(210)	SIGNED	4	WSAPLIM	Number of pages chained
532	(214)	ADDRESS	4	WSACBA (0)	CONTROL BLOCK ADDRESSES
532	(214)	ADDRESS	4	WSAHCT	ADDR OF HCT
536	(218)	ADDRESS	4	WSAUCT	ADDR OF UCT
540	(21C)	ADDRESS	4	WSADCT	Address of DCT or zero
544	(220)	ADDRESS	4	WSAWSP	Address of WSP
548	(224)	ADDRESS	4	WSAWSA	ADDR OF WSA
552	(228)	ADDRESS	4	WSAJQE	ADDR OF JQE
556	(22C)	ADDRESS	4	WSAPCE	Addr of PCE
560	(230)	ADDRESS	4	WSAJCT	ADDR OF JCT
564	(234)	ADDRESS	4	WSAWJOE	ADDR OF WORK JOE
568	(238)	ADDRESS	4	WSACJOE	ADDR OF CHAR-JOE
572	(23C)	ADDRESS	4	WSAJOA	ADDR OF JOA
576	(240)	ADDRESS	4	WSANJHG	GEN SECTION JOB HDR ADDR
580	(244)	ADDRESS	4	WSANJH2	JES2 SECTION JOB HDR ADDR
584	(248)	ADDRESS	4	WSANJHO	OFFLOAD SECTION JOB HDR
588	(24C)	ADDRESS	4	WSANJHU	USER SECTION JOB HDR
592	(250)	ADDRESS	4	WSANJHT	Security Section Job Hdr
596	(254)	ADDRESS	4	WSANDHG	GENERAL SEC DS HDR ADDR
600	(258)	ADDRESS	4	WSANDH2	JES2 SECT OF DS HDR ADDR
604	(25C)	ADDRESS	4	WSANDHA	OFFLOAD SECTION DS HDR
608	(260)	ADDRESS	4	WSANDHS	DATASTREAM SEC OF DS HDR
612	(264)	ADDRESS	4	WSANDHU	USER SECTION DS HDR
616	(268)	ADDRESS	4	WSANDHT	Security Section DS Hdr
620	(26C)	ADDRESS	4	WSANJHOX	Affinity section job header
624	(270)	SIGNED	4	WSASTCK	High order word of TOD
628	(274)	ADDRESS	4	WSALST	ADDR OF WS LIST
632	(278)	SIGNED	4	WSALSTCR	Maximum number of criteria in WS list
636	(27C)	ADDRESS	4	WSANTRT	MVS NAME/TOKEN Retrieve rtn
640	(280)	BITSTRING	128	WSAVOL (4)	VOLUME MASK
768	(300)	SIGNED	4	WSAMDSTR	Lowest remote route code for quick index to queue
772	(304)	SIGNED	4	WSAMDSTU	Lowest special local route code

Comment

Work area for ASAXWC macros

End of Comment

776	(308)	SIGNED	4	WSADATAL	Length of input string MACDATE -06/16/09-<0>
0	(0)	X'30C'	0	M00M1328	"WSALIST" ++ ASAXWC NAME
780	(30C)	SIGNED	4	WSALIST (0)	++ ASAXWC PARM LIST
780	(30C)	CHARACTER	4	WSALIST_XPARMAREA1	++ FIELD_LABEL
784	(310)	CHARACTER	24	WSALIST_XPARMAREA2	++ FIELD_LABEL
784	(310)	X'328'	0	WSALIST_PL_END	*** ++ END OF BASE PLIST
780	(30C)	ADDRESS	4	WSALIST_XPATTERNSTR_ADDR	++ ADDR
784	(310)	SIGNED	4	WSALIST_XPATTERNSTRLEN	++
788	(314)	ADDRESS	4	WSALIST_XSTRING_ADDR	++ ADDR

## \$WSA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
792	(318)	SIGNED	4	WSALIST_XSTRINGLEN	++
796	(31C)	ADDRESS	4	WSALIST_XZEROORMORE_ADDR	++ ADDR
800	(320)	ADDRESS	4	WSALIST_XONECHAR_ADDR	++ ADDR
804	(324)	ADDRESS	4	WSALIST_XDELIMITER_ADDR	++ ADDR
780	(30C)	ADDRESS	4	WSALIST_XPPPATTERNINFO_ADDR	++ ADDR
784	(310)	ADDRESS	4	WSALIST_XPPPATTERNSTR_ADDR	++ ADDR
788	(314)	SIGNED	4	WSALIST_XPPPATTERNSTRLEN	++
792	(318)	ADDRESS	4	WSALIST_XPPZEROORMORE_ADDR	++ ADDR
796	(31C)	ADDRESS	4	WSALIST_XPPONECHAR_ADDR	++ ADDR
800	(320)	ADDRESS	4	WSALIST_XPPDELIMITER_ADDR	++ ADDR
784	(310)	ADDRESS	4	WSALIST_XPPSTRING_ADDR	++ ADDR
788	(314)	SIGNED	4	WSALIST_XPPSTRINGLEN	++
808	(328)	X'1C'	0	WSALISTL	**-'WSALIST' ++ LENGTH OF PLIST
Comment					
ASAXWC-0					
End of Comment					
808	(328)	BITSTRING	256	WSAAREA	Work area passed to ASAXWC
Comment					
Parameter list for MVS Name/Token retrieve service (IEANTRT).					
End of Comment					
808	(328)	SIGNED	4	WSATKPRM (0)	IEANTRT parameter list
808	(328)	ADDRESS	4	WSATKLVA	Level address
812	(32C)	ADDRESS	4	WSATKNMA	Name address
816	(330)	ADDRESS	4	WSATKTKA	Token address
820	(334)	ADDRESS	4	WSATKRCA	Return code address
Comment					
Token information					
End of Comment					
824	(338)	SIGNED	4	WSATKLVL	Task level for token
828	(33C)	BITSTRING	16	WSATKTOK	Token of NAME/TOKEN pair
844	(34C)	SIGNED	4	WSATKRET	Service return code
848	(350)	BITSTRING	16	WSATKNAM	Name of NAME/Token pair
1064	(428)	DBL WORD	8	(0)	
1064	(428)	X'428'	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					
1064	(428)	BITSTRING	256	WSATRTAB	Translate table for ASAXWC
Comment					
Work area for EBCDIC work selection list creation					
End of Comment					
1320	(528)	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					
1540	(604)	SIGNED	4	WSACTJOE	Number of JOEs matching
1544	(608)	SIGNED	4	WSACLIN	Number of lines
1548	(60C)	SIGNED	4	WSACPAGE	Number of pages
1548	(60C)	X'604'	0	WSACOUNT	"WSACTJOE,*-WSACTJOE,C'X"
Comment					
Work area for \$#POST					
End of Comment					
1552	(610)	BITSTRING	480	WSATWSP	Temporary WSP
2032	(7F0)	BITSTRING	50	WSAPRTBL	Room for 5 PRMODEs
2082	(822)	BITSTRING	34	WSASPLWA	Working spools used mask
2116	(844)	ADDRESS	4	WSAPSGTW	Address of GTW
2120	(848)	SIGNED	4	(0)	Ensure fullword alignment
2120	(848)	X'848'	0	WSALEN	"*-WSA" LENGTH OF WSA

**\$WSA Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
M00M1328	0	30C	WSADELIM	160	0
WSA	0		WSAFLAG1	1BA	
WSAAREA	328		WSAFLAG2	1BB	
WSAASLAS	161		WSAFLAG3	1BC	
WSABCLVL	1B9		WSAFLG	1B2	0
WSABSTV	1C0		WSAHCT	214	
WSABSTWK	1B4		WSAID	0	E6E2C140
WSACBA	214		WSAJCT	230	
WSACJOE	238		WSAJOA	23C	
WSACLIN	608		WSAJQE	228	
WSACLRST	98		WSALEN	848	848
WSACLVAL	1B8		WSALIST	30C	
WSACOUNT	60C	604	WSALIST_PL_END		
WSACPAGE	60C			310	328
WSACTJOE	604		WSALIST_XDELIMITER_ADDR		
WSACURV	1D8			324	
WSADATAL	308		WSALIST_XONECHAR_ADDR		
WSADCT	21C			320	

## \$WSA Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
WSALIST_XPARAMAREA1	30C		WSATKRCA	334	
WSALIST_XPARAMAREA2	310		WSATKRET	34C	
WSALIST_XPATTERNSTR_ADDR	30C		WSATKTKA	330	
WSALIST_XPATTERNSTRLEN	310		WSATKTOK	33C	
WSALIST_XPPDELIMITER_ADDR	320		WSATR TAB	428	
WSALIST_XPPONECHAR_ADDR	31C		WSATWSP	610	
WSALIST_XPPPATTERNINFO_ADDR	30C		WSAUCT	218	
WSALIST_XPPPATTERNSTR_ADDR	310		WSAUSER	208	80
WSALIST_XPPPATTERNSTRLEN	314		WSAVERS	4	
WSALIST_XPPSTRING_ADDR	310		WSAVOL	280	
WSALIST_XPPSTRINGLEN	314		WSAVRSN	4	3
WSALIST_XPPZEROORMORE_ADDR	318		WSAWJOE	234	
WSALIST_XSTRING_ADDR	314		WSAWKL1	98	
WSALIST_XSTRINGLEN	318		WSAWKL2	FC	
WSALIST_XZEROORMORE_ADDR	31C		WSAWRMSK	1F0	
WSALISTL	328	1C	WSAWSA	224	
WSALLIM	20C		WSAWSLN	428	428
WSALST	274		WSAWSLST	528	
WSALSTCR	278		WSAWSP	220	
WSAMDSTR	300		WSA1BEST	1BA	20
WSAMDSTU	304		WSA1CHLD	1BA	8
WSANDHA	25C		WSA1CLOC	1BA	4
WSANDHG	254		WSA1CNET	1BA	10
WSANDHS	260		WSA1CRMT	1BA	2
WSANDHT	268		WSA1CURQ	1BA	1F
WSANDHU	264		WSA1CUSR	1BA	1
WSANDH2	258		WSA1HOLD	1BA	40
WSANJHG	240		WSA1OPT	1BA	80
WSANJHO	248		WSA2BSRC	1BB	1
WSANJHOX	26C		WSA2LOC	1BB	80
WSANJHT	250		WSA2NQTM	1BB	4
WSANJHU	24C		WSA2QQTM	1BB	2
WSANJH2	244		WSA2RMT	1BB	20
WSANTRT	27C		WSA2RQCN	1BB	8
WSAPCE	22C		WSA2RQTM	1BB	10
WSAPLIM	210		WSA2USE	1BB	40
WSAPRTBL	7F0		WSA3GJOA	1BC	80
WSAPSGTW	844				
WSARSV1	5				
WSASAVE	50	0			
WSASPLWA	822				
WSASRVSV	8	0			
WSASTCK	270				
WSASVLST	162	F0F04040			
WSATABS	208				
WSATKLVA	328				
WSATKLVL	338				
WSATKNAM	350				
WSATKNMA	32C				
WSATKPRM	328				

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**\$WSC Programming Interface information**

Programming Interface information

**\$WSC**

End of Programming Interface information

## \$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 WSCLLEN  
**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	WSQLSTAD	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	WSCLLEN1	"*-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
WSSLSTAD	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 Programming Interface information

Programming Interface information

### \$WSP

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

- WSPGTW
- WSPPRTBL

End of Programming Interface information

## \$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.

## \$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	WSCSTAD	Index of most recently added JQE/JQX
32	(20)	BITSTRING	1	WSCSELCT	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"

## \$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 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	M00M1331	"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	
					"B'01000000" ++ XMSGATTR.EXPRESS KEYWORD

## \$XBCWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
56	(38)	CHARACTER	16	XBCXIXSM_XMBOXNAME	++ 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
		1... ....		XBCXIXSM_XREQTYPE_ASYNC	"B'10000000" ++ XREQTYPE.ASYNC KEYWORD
		.1.. ....		XBCXIXSM_XREQTYPE_SYNC	"B'01000000" ++ XREQTYPE.SYNC KEYWORD
		..1. ....		XBCXIXSM_XREQTYPE_ASYNCACK	"B'00100000" ++ XREQTYPE.ASYNCACK KEYWORD
		...1 ....		XBCXIXSM_XREQTYPE_COMM	"B'00010000" ++ XREQTYPE.COMM KEYWORD
177	(B1)	BITSTRING	1	XBCXIXSM_XSEGTYPE	++ INPUT
		1... ....		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
		1... ....		XBCXIXSM_KEYUSED_REQTYPE	"B'10000000" ++ KEYUSED.REQTYPE KEYWORD
		.1.. ....		XBCXIXSM_KEYUSED_REQTOKEN	"B'01000000" ++ KEYUSED.REQTOKEN KEYWORD

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		..1. ....		XBCXIXSM_KEYUSED_REQMBOX	"B'00100000" ++ KEYUSED.REQMBOX KEYWORD
		...1 ....		XBCXIXSM_KEYUSED_EXIT	"B'00010000" ++ KEYUSED.EXIT KEYWORD
		.... 1...		XBCXIXSM_KEYUSED_SEGTYPE	"B'00001000" ++ KEYUSED.SEGTYPE KEYWORD
		.... .1..		XBCXIXSM_KEYUSED_CONNECT	"B'00000100" ++ KEYUSED.CONNECT KEYWORD
		.... ..1.		XBCXIXSM_KEYUSED_MSGTOKEN	"B'00000010" ++ KEYUSED.MSGTOKEN KEYWORD
		.... ...1		XBCXIXSM_KEYUSED_MSGATTR	"B'00000001" ++ KEYUSED.MSGATTR KEYWORD
179	(B3)	BITSTRING	1	XBCXIXSM_XKEYS1	++ FIELD_LABEL
		1... ....		XBCXIXSM_KEYUSED_ECB	"B'10000000" ++ KEYUSED.ECB KEYWORD
		.1.. ....		XBCXIXSM_KEYUSED_DATAALET	"B'01000000" ++ KEYUSED.DATAALET KEYWORD
		..1. ....		XBCXIXSM_KEYUSED_RELEASE_CADS	"B'00100000" ++ KEYUSED.RELEASE_CADS KEYWORD
		...1 ....		XBCXIXSM_KEYUSED_RIPSIZE	"B'00010000" ++ KEYUSED.RIPSIZE KEYWORD
179	(B3)	X'84'	0	XBCXIXSML	**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
M00M1331	0	30		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_XGROUPTOKEN		90
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			
XBCXIXSM_KEYUSED_RELEASE_CADS					

## \$XBCWORK Cross Reference

Name	Hex Offset	Hex Value
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 Heading Information

**Common Name:** JES2 XCFMND 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 XCFMND 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	M00M1334	"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	M00M1336 (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	M00M1337 (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	M00M1338 (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)	DBL WORD	8	(0)	Force double-word alignment
1568	(620)	X'4E8'	0	XCMPCEWS	**PCEWORK" Length of work area

**\$XCMWORK Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
M00M1334	0	180	XCMXIXMB_XGROUPTOKEN		
M00M1336	180			1A4	
M00M1337	180		XCMXIXMB_XMBOXNAME		
M00M1338	180			188	
PCE	0		XCMXIXMB_XPOSTALET		
XCMACKPT	174			1A0	
XCMERRCT	178		XCMXIXMB_XPOSTDATA		
XCMIXEND	220			19C	
XCMIXLST	180		XCMXIXMB_XPOSTXIT		
XCMMBNAM	138	E2E8E2D1		198	
XCMPCEWS	620	4E8	XCMXIXMB_XRSV0001		
XCMSCANW	220			187	
XCMXBUFA	160		XCMXIXMB_XSYSEVENT_NO		
XCMXBUFL	168			1A8	40
XCMXBUFP	164		XCMXIXMB_XSYSEVENT_YES		
XCMXCECB	148			1A8	80
XCMXIXAC	180		XCMXIXMB_XSYSEVENTS		
XCMXIXAC_KEYUSED_DATA				1A8	
	1A8	80	XCMXIXMB_XVERSION		
XCMXIXAC_KEYUSED_DATALEN				180	
	1A8	40	XCMXIXMBL	1A8	29
XCMXIXAC_KEYUSED_SYSRC			XCMXIXMD	180	
	1A8	10	XCMXIXMD_XEYECATCH		
XCMXIXAC_KEYUSED_SYSRSN				181	
	1A8	8	XCMXIXMD_XGROUPTOKEN		
XCMXIXAC_KEYUSED_USERRC				198	
	1A8	20	XCMXIXMD_XMBOXNAME		
XCMXIXAC_XDATA				188	
	190		XCMXIXMD_XSTB		
XCMXIXAC_XDATALEN				187	
	194		XCMXIXMD_XSTB_NO		
XCMXIXAC_XEYECATCH				187	80
	181		XCMXIXMD_XSTB_YES		
XCMXIXAC_XGROUPTOKEN				187	40
	19C		XCMXIXMD_XVERSION		
XCMXIXAC_XKEYS				180	
	1A8		XCMXIXMDL	198	1C
XCMXIXAC_XMSGATTR			XCMXIXRM	180	
	1A9		XCMXIXRM_KEYUSED_MSGFETCH		
XCMXIXAC_XMSGATTR_EXPRESS				1AD	80
	1A9	40	XCMXIXRM_XDATA		
XCMXIXAC_XMSGATTR_J3CONNECT				198	
	1A9	80	XCMXIXRM_XDATALEN		
XCMXIXAC_XMSGTOKEN				19C	
	188		XCMXIXRM_XEYECATCH		
XCMXIXAC_XSTB				181	
	187		XCMXIXRM_XGROUPTOKEN		
XCMXIXAC_XSTB_NO				1A8	
	187	80	XCMXIXRM_XKEYS		
XCMXIXAC_XSTB_YES				1AD	
	187	40	XCMXIXRM_XMBOXNAME		
XCMXIXAC_XSYSRC				188	
	1A0		XCMXIXRM_XMSGFETCH		
XCMXIXAC_XSYSRSN				1AC	
	1A4		XCMXIXRM_XMSGFETCH_ACKS		
XCMXIXAC_XUSERRC				1AC	10
	198		XCMXIXRM_XMSGFETCH_ALL		
XCMXIXAC_XVERSION				1AC	80
	180		XCMXIXRM_XMSGFETCH_MESSAGES		
XCMXIXACL	1A9	2A		1AC	40
XCMXIXMB	180		XCMXIXRM_XMSGFETCH_SYSEVENT		
XCMXIXMB_XEYECATCH				1AC	20
	181		XCMXIXRM_XMSGTOKEN		

## \$XCMWORK Cross Reference

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

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## \$XECB Programming Interface information

Programming Interface information

\$XECB

End of Programming Interface information

## \$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	XECBQNX	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 Programming Interface information**

Programming Interface information

**\$XEQWORK**

End of Programming Interface information

## \$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	80	XEQMSGWA	\$WTO work area
464	(1D0)	ADDRESS	4	XEQPARM	NODE TABLE ADDRESS
468	(1D4)	ADDRESS	4		CONTROL BLOCK ADDRESS
472	(1D8)	ADDRESS	4		CLASS LIST ADDRESS
476	(1DC)	ADDRESS	4		ADDRESS OF JQE
480	(1E0)	ADDRESS	1		CLASS LIST LENGTH
481	(1E1)	ADDRESS	1		QUEUE TYPE SPECIFIED
482	(1E2)	ADDRESS	1		WORK SELECTION TYPE FLAG
483	(1E3)	ADDRESS	1		RESERVED FOR FUTURE USE
483	(1E3)	X'1D0'	0	XEQLST	"XEQPARM,*-XEQPARM" QGET PARAMETER LIST STORAGE
484	(1E4)	CHARACTER	2	XEQJOBSL	FAKE JOB CARD SLASHES
486	(1E6)	CHARACTER	8	XEQJOBNM	Fake job card name in RJCS, also used as job name work area in HASPXEQ
494	(1EE)	CHARACTER	12	XEQJOBFN	FAKE JOB CARD FUNCTION NAME
506	(1FA)	BITSTRING	1	XEQSJBF1	SJBFLG1 after SJB is freed
507	(1FB)	BITSTRING	1	XEQSJBF2	SJBFLG2 after SJB is freed
508	(1FC)	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
509	(1FD)	CHARACTER	7	XEQRSV1	Reserved for future use
516	(204)	SIGNED	4	XEQHSBCT	Current count of HASB's
520	(208)	SIGNED	4	XEQHSBCP	Previous count of HASB's
528	(210)	DBL WORD	8	XEQWTTIM	Time of last wait at start of \$QGET
536	(218)	BITSTRING	36	XEQCLLST	Class list constructed for \$QGET
572	(23C)	BITSTRING	256	XEQCLMSK	Class exclusion mask for classes with no work

## \$XEQWORK Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
828	(33C)	BITSTRING	4	XEQLDVID	Last used psuedo-device id
832	(340)	DBL WORD	8	XEQPHWAI	TOD when last exit from \$PHASP
840	(348)	CHARACTER	8	XEQJNAME	Jobname from job card
848	(350)	BITSTRING	1	XEQJQEF7	Copy of JQEFLAG7
849	(351)	BITSTRING	3		Reserved for future use
852	(354)	ADDRESS	4	XEQXWM	Queue head for sevice class optimization elements
856	(358)	SIGNED	4	XEQPTIME	TOD \$PJES2 process'g began wait-a-bit loop
860	(35C)	SIGNED	4	XEQDTIME	TOD \$PJES2 processing began interval to HASP714 dump
864	(360)	SIGNED	2	XEQASIDL (5)	ASID list for SDUMPX and HASP715
864	(360)	X'5'	0	XEQASDNO	"(*-XEQASIDL)/2" Number of ASIDs allowed
874	(36A)	BITSTRING	2		Reserved for future use
876	(36C)	SIGNED	4	XEQDOMID	DOMID for \$HASP714
880	(370)	BITSTRING	12	XEQTQE	XEQ TQE for \$STIMER
892	(37C)	SIGNED	1	XEQSJBPR	Priority of job from SJB
893	(37D)	BITSTRING	1	XEQSJFN1	Request type from SJB
894	(37E)	BITSTRING	2		Reserved for future use
896	(380)	SIGNED	4	XEQ715DM	DOMID for \$HASP715
900	(384)	CHARACTER	8	XEQJBNML (5)	JOBNAME list for HASP715
900	(384)	X'5'	0	XEQJBNMN	"(*-XEQJBNML)/8" Number of JOBNAMEs allowed
940	(3AC)	SIGNED	4	XEQASDSA	ASDS data space ALET
944	(3B0)	BITSTRING	1	XEQWLMIS	WLM Init ASDS ent stat updt
945	(3B1)	BITSTRING	15	XEQRSV2	Reserved for future use
960	(3C0)	DBL WORD	8	(0)	ALIGN XEQ WORK
960	(3C0)	X'288'	0	XEQPCEWS	"*-PCEWORK" XEQ PCE WORK AREA LENGTH

## \$XEQWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PCE	0		XEQRSV2	3B1	
XEQASDNO	360	5	XEQSJBFB1	1FA	
XEQASDSA	3AC		XEQSJBFB2	1FB	
XEQASIDL	360		XEQSJBPR	37C	
XEQCLLST	218		XEQSJFN1	37D	
XEQCLMSK	23C		XEQTOPST	148	
XEQDEQL	17C	174	XEQTQE	370	
XEQDEQPL	174	174	XEQWLMIS	3B0	
XEQDEQST	174		XEQWTTIM	210	
XEQDOMID	36C		XEQXECB	14C	
XEQDTIME	35C		XEQXPARM	13C	
XEQENQL	170	164	XEQXSJB	13C	
XEQENQPL	164	168	XEQXWM	354	
XEQENQST	164		XEQ1NDUP	1FC	80
XEQFLAG1	1FC		XEQ1NOPT	1FC	10
XEQHSBCP	208		XEQ1PHDS	1FC	2
XEQHSBCT	204		XEQ1PHDT	1FC	4
XEQJBNML	384		XEQ1PHNR	1FC	1
XEQJBNMN	384	5	XEQ1SCAN	1FC	40
XEQJNAME	348		XEQ1X14	1FC	20
XEQJOBFN	1EE		XEQ1714I	1FC	8
XEQJOBNM	1E6		XEQ715DM	380	
XEQJOBSL	1E4				
XEQJQEF7	350				
XEQLDVID	33C				
XEQLST	1E3	1D0			
XEQLSTTK	144				
XEQMSGWA	180				
XEQNXTTK	140				
XEQOFFST	138				
XEQPARM	1D0				
XEQPCEWS	3C0	288			
XEQPHWAI	340				
XEQPTIME	358				
XEQRSV1	1FD				

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**\$XFMWORK Programming Interface information**

Programming Interface information

**\$XFMWORK**

End of Programming Interface information

## \$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 PCEXF MID 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	
XFMCETIME	150	
XFMLEAG1	159	
XFMLEAG2	15A	
XFMLEN	15B	A0
XFMMAK	158	
XFMMSG	15B	
XFMSCDCT	14C	
XFMSCPTR	144	
XFMSCQE	138	
XFM1EXP	159	0
XFM1TACT	159	FF
XFM2STRT	15A	80

## \$XFMWORK Cross Reference



## \$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 ....		XITFRSH	"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)
		..1. ....		XITFWTOR	"B'00100000" WTOR
		...1 ....		XITFWTOS	"B'00010000" WTOR (special)

## \$XIT Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... 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 Programming Interface information

Programming Interface information

\$XMAS

End of Programming Interface information

## \$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 XREXMAS 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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.1.. ....		XMA3SYSG	"B'01000000" In XCFSGONE routine
		..1. ....		XMA3MEMS	"B'00100000" In XCFMEMS 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" XCFDELET 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
		.1.. ....		XMA6XMAR	"B'01000000" XRQ chain from XMA has err
		..1. ....		XMA6XCFR	"B'00100000" XRQ chain from PCE has err
		...1 ....		XMA6FCEL	"B'00010000" XRQ cell must be freed
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	XMAREQ	ADDR XCF REQUEST QUEUE
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	XMAMTOKN	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	160	XMAQDATA	Work area for XMAQENT
340	(154)	SIGNED	4	XMADIAG	JESXCF Diagnostic area
344	(158)	DBL WORD	8	(0)	
344	(158)	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

352	(160)	SIGNED	4	XMABLDM (0)	Control block ID
356	(164)	BITSTRING	4		Console ID
360	(168)	ADDRESS	4		Address of the CART
364	(16C)	ADDRESS	4		Pointer for JOBID

## \$XMAS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
368	(170)	ADDRESS	4		Control block address
372	(174)	ADDRESS	4		Display routine address
376	(178)	ADDRESS	4	(6)	6 word work area
400	(190)	ADDRESS	4		Caller's R11 value
404	(194)	BITSTRING	2		ROUT code for Message
406	(196)	BITSTRING	2		Not used
408	(198)	CHARACTER	4		Message ID
412	(19C)	CHARACTER	1		Separator character
413	(19D)	ADDRESS	1		Flag byte 1
414	(19E)	ADDRESS	1		'DISPER'
415	(19F)	ADDRESS	1		Flag byte 2
416	(1A0)	ADDRESS	1		Flag byte 3
417	(1A1)	CHARACTER	8		Symbolic name of dest.
425	(1A9)	BITSTRING	15		Not used
440	(1B8)	ADDRESS	4	(0)	Ensure multiple of 4
440	(1B8)	ADDRESS	2	(0)	
0	(0)	X'58'	0	XMABLDML	** -XMABLDM" Size of \$BLDMSGSL 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

440	(1B8)	DBL WORD	8	(0)	
440	(1B8)	BITSTRING	1	XMAXUSST	HASPXCF USER STATE FIELD

Comment

End of the XMAXUS field.

End of Comment

472	(1D8)	SIGNED	4	XMAMEMST	Anchor for answer area obtained to IXCQUERY all members in SYSZJES2 group
476	(1DC)	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

480	(1E0)	BITSTRING	16	XMAOTHMN	Work area to build and contain other member names
496	(1F0)	BITSTRING	8	XMAPLIWK	Sysplex id work area
504	(1F8)	SIGNED	4	XMAIFALN	Length of answer area
508	(1FC)	ADDRESS	4	XMAIFAA	IXZXIXIF answer area pointer
512	(200)	DBL WORD	8	(0)	Double word alignment

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
IXCQUERY MF=(L,XMAMFLQR) IXCQUERY list area MACDATE -01/28/10-<2>					
End of Comment					
0	(0)	X'200'	0	M00M1341	"XMAMFLQR" ++ IXCQUERY NAME
512	(200)	DBL WORD	8	XMAMFLQR (0)	++ IXCQUERY PARM LIST
512	(200)	BITSTRING	1	XMAMFLQR_XVERSION	++ INPUT XVERSION
513	(201)	BITSTRING	1	XMAMFLQR_XREQTYPE	++ XREQTYPE
513	(201)	X'10'	0	XMAMFLQR_XREQTYPE_IMMEDIATE	"16" ++ XREQTYPE.IMMEDIATE KEYWORD
513	(201)	X'5'	0	XMAMFLQR_XREQTYPE_DEFER	"5" ++ XREQTYPE.DEFER KEYWORD
514	(202)	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
515	(203)	BITSTRING	1	XMAMFLQR_XQUAALEVEL	++
516	(204)	ADDRESS	4	XMAMFLQR_XANSAREA_ADDR	++ ADDR
520	(208)	SIGNED	4	XMAMFLQR_XANSAREA_ALET	++ ALET
524	(20C)	SIGNED	4	XMAMFLQR_XANSLEN	++
528	(210)	CHARACTER	8	XMAMFLQR_XGRPNAME	++
536	(218)	CHARACTER	16	XMAMFLQR_XMEMNAME	++
536	(218)	X'228'	0	XMAMFLQR_PL_END	*** ++ END OF BASE PLIST
536	(218)	X'28'	0	XMAMFLQRL	**XMAMFLQR" ++ LENGTH OF PLIST
Comment					
IXCQUERY-2					
End of Comment					
552	(228)	DBL WORD	8	(0)	Double word alignment
Comment					
IXZXIXAT MF=(L,XMAMFLAT) IXZXIXAT list area MACDATE -00/01/11-<6>					
End of Comment					

# \$XMAS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	X'228'	0	M00M1343	"XMAMFLAT" ++ IXZXIXAT NAME
552	(228)	DBL WORD	8	XMAMFLAT (0)	++ IXZXIXAT PARM LIST
552	(228)	BITSTRING	1	XMAMFLAT_XVERSION	++ INPUT XVERSION
553	(229)	CHARACTER	6	XMAMFLAT_XEYECATCH	++ CONSTANT XEYECATCH
559	(22F)	CHARACTER	1	XMAMFLAT_XRSV0001	++ RESERVED XRSV0001
560	(230)	CHARACTER	8	XMAMFLAT_XGROUP	++ XGROUP
568	(238)	CHARACTER	16	XMAMFLAT_XMEMBER	++ XMEMBER
584	(248)	CHARACTER	8	XMAMFLAT_XRELEASE	++ XRELEASE
592	(250)	SIGNED	4	XMAMFLAT_XMAINTLVL	++ CONSTANT XMAINTLVL
596	(254)	SIGNED	4	XMAMFLAT_XGROUPTOKEN	++ XGROUPTOKEN
600	(258)	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
601	(259)	BITSTRING	1	XMAMFLAT_XFLAG2	++ FIELD_LABEL
		1... ....		XMAMFLAT_XJ3CONNECT_NO	"B'10000000" ++ XJ3CONNECT.NO KEYWORD
		.1.. ....		XMAMFLAT_XJ3CONNECT_YES	"B'01000000" ++ XJ3CONNECT.YES KEYWORD
602	(25A)	CHARACTER	2	XMAMFLAT_XRSV0002	++ RESERVED XRSV0002
604	(25C)	SIGNED	4	XMAMFLAT_XDIAG	++ XDIAG
608	(260)	CHARACTER	8	XMAMFLAT_XLINKPARMS	++ FIELD_LABEL XLINKPARMS
608	(260)	X'40'	0	XMAMFLATL	"*-XMAMFLAT" ++ LENGTH OF PLIST

Comment

IXZXIXAT-6

End of Comment

616	(268)	DBL WORD	8	(0)	Double word alignment
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Comment

IXZXIXDT MF=(L, XMAMFLDT) IXZXIXDT list area  
MACDATE -00/02/02-<1>

End of Comment

0	(0)	X'268'	0	M00M1344	"XMAMFLDT" ++ IXZXIXDT NAME
616	(268)	DBL WORD	8	XMAMFLDT (0)	++ IXZXIXDT PARM LIST
616	(268)	BITSTRING	1	XMAMFLDT_XVERSION	++ INPUT XVERSION
617	(269)	CHARACTER	6	XMAMFLDT_XEYECATCH	



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
623	(26F)	CHARACTER	1	XMAMFLDT_XRSV0001	++ CONSTANT XEYECATCH
624	(270)	ADDRESS	4	XMAMFLDT_XGROUPTOKEN	++ RESERVED XRSV0001
628	(274)	CHARACTER	8	XMAMFLDT_XLINKPARMS	++ XGROUPTOKEN
628	(274)	X'14'	0	XMAMFLDTL	++ FIELD_LABEL XLINKPARMS "*-XMAMFLDT" ++ LENGTH OF PLIST
Comment					
IXZXIXDT-1					
End of Comment					
640	(280)	DBL WORD	8	(0)	Double word alignment
Comment					
IXZXIXMB MF=(L, XMAMFLMB) IXZXIXMB list area MACDATE -93/05/10-<1>					
End of Comment					
640	(280)	SIGNED	2	M00M1345 (0)	IXZXIXMB-1
640	(280)	DBL WORD	8	XMAMFLMB (0)	++ IXZXIXMB PARM LIST
640	(280)	BITSTRING	1	XMAMFLMB_XVERSION	++ INPUT XVERSION
641	(281)	CHARACTER	6	XMAMFLMB_XEYECATCH	++ CONSTANT XEYECATCH
647	(287)	CHARACTER	1	XMAMFLMB_XRSV0001	++ RESERVED XRSV0001
648	(288)	CHARACTER	16	XMAMFLMB_XMBOXNAME	++ XMBOXNAME
664	(298)	ADDRESS	4	XMAMFLMB_XPOSTXIT	++ XPOSTXIT
668	(29C)	ADDRESS	4	XMAMFLMB_XPOSTDATA	++ XPOSTDATA
672	(2A0)	SIGNED	4	XMAMFLMB_XPOSTALET	++ XPOSTALET
676	(2A4)	SIGNED	4	XMAMFLMB_XGROUPTOKEN	++ XGROUPTOKEN
680	(2A8)	BITSTRING	1	XMAMFLMB_XSYSEVENTS	++ FIELD_LABEL
		1... ....		XMAMFLMB_XSYSEVENT_YES	"B'10000000" ++ XSYSEVENT.YES KEYWORD
		.1.. ....		XMAMFLMB_XSYSEVENT_NO	"B'01000000" ++ XSYSEVENT.NO KEYWORD
680	(2A8)	X'29'	0	XMAMFLMBL	"*-XMAMFLMB" ++ LENGTH OF PLIST
Comment					
IXZXIXMB-1					
End of Comment					
684	(2AC)	SIGNED	4		Reserved for IBM use
688	(2B0)	DBL WORD	8	(0)	Double word alignment
Comment					
IXZXIXUS MF=(L, XMAMFLUS) IXZXIXUS list area MACDATE -93/05/10-<1>					
End of Comment					
688	(2B0)	SIGNED	2	M00M1346 (0)	IXZXIXUS-1
688	(2B0)	DBL WORD	8	XMAMFLUS (0)	++ IXZXIXUS PARM LIST

# \$XMAS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
688	(2B0)	BITSTRING	1	XMAMFLUS_XVERSION	++ INPUT XVERSION
689	(2B1)	CHARACTER	6	XMAMFLUS_XEYECATCH	++ CONSTANT XEYECATCH
695	(2B7)	CHARACTER	1	XMAMFLUS_XRSV0001	++ RESERVED XRSV0001
696	(2B8)	CHARACTER	32	XMAMFLUS_XUSTATE	++ XUSTATE
728	(2D8)	SIGNED	4	XMAMFLUS_XGROUPTOKEN	++ XGROUPTOKEN
732	(2DC)	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
732	(2DC)	X'2D'	0	XMAMFLUSL	** -XMAMFLUS" ++ LENGTH OF PLIST
Comment					
IXZXIXUS-1					
End of Comment					
736	(2E0)	SIGNED	4		Reserved for IBM use
744	(2E8)	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'2E8'	0	M00M1347	"XMAMFLIF" ++ IXZXIXIF NAME
744	(2E8)	DBL WORD	8	XMAMFLIF (0)	++ IXZXIXIF PARM LIST
744	(2E8)	BITSTRING	1	XMAMFLIF_XVERSION	++ INPUT XVERSION
745	(2E9)	CHARACTER	6	XMAMFLIF_XEYECATCH	++ CONSTANT XEYECATCH
751	(2EF)	CHARACTER	1	XMAMFLIF_XRSV0001	++ RESERVED XRSV0001
752	(2F0)	SIGNED	4	XMAMFLIF_XGROUPTOKEN	++ XGROUPTOKEN
756	(2F4)	CHARACTER	16	XMAMFLIF_XREQMBOX	++ XREQMBOX
772	(304)	CHARACTER	8	XMAMFLIF_XREQTOKEN	++ XREQTOKEN
780	(30C)	ADDRESS	4	XMAMFLIF_XANSAREA	++ XANSAREA
784	(310)	SIGNED	4	XMAMFLIF_XANSLEN	++ XANSLEN
788	(314)	BITSTRING	1	XMAMFLIF_XINFOLVL	++ INPUT
		1... ....		XMAMFLIF_XINFOLVL_GROUP	"B'10000000" ++ XINFOLVL.GROUP KEYWORD
		.1.. ....		XMAMFLIF_XINFOLVL_MEMBER	"B'01000000" ++ XINFOLVL.MEMBER KEYWORD
789	(315)	BITSTRING	1	XMAMFLIF_XKEYS	++ FIELD_LABEL
		1... ....		XMAMFLIF_KEYUSED_REQMBOX	"B'10000000" ++ KEYUSED.REQMBOX KEYWORD
		.1.. ....		XMAMFLIF_KEYUSED_ANSAREA	"B'01000000" ++ KEYUSED.ANSAREA KEYWORD

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		..1. ....		XMAMFLIF_KEYUSED_GROUPTOKEN	"B'00100000" ++ KEYUSED.GROUPTOKEN KEYWORD
		...1 ....		XMAMFLIF_KEYUSED_GROUPNAME	"B'00010000" ++ KEYUSED.GROUPNAME KEYWORD
790	(316)	BITSTRING	1	XMAMFLIF_XSTATE	++ INPUT
		1... ....		XMAMFLIF_XSTATE_ANY	"B'10000000" ++ XSTATE.ANY KEYWORD
		.1.. ....		XMAMFLIF_XSTATE_ACTIVE	"B'01000000" ++ XSTATE.ACTIVE KEYWORD
791	(317)	BITSTRING	1	XMAMFLIF_XSYSTEM	++ INPUT
		1... ....		XMAMFLIF_XSYSTEM_ANY	"B'10000000" ++ XSYSTEM.ANY KEYWORD
		.1.. ....		XMAMFLIF_XSYSTEM_CURRENT	"B'01000000" ++ XSYSTEM.CURRENT KEYWORD
792	(318)	BITSTRING	1	XMAMFLIF_XPOLYJES	++ INPUT
		1... ....		XMAMFLIF_XPOLYJES_YES	"B'10000000" ++ XPOLYJES.YES KEYWORD
		.1.. ....		XMAMFLIF_XPOLYJES_NO	"B'01000000" ++ XPOLYJES.NO KEYWORD
793	(319)	BITSTRING	2	XMAMFLIF_XFUNCTION	++ INPUT
793	(319)	BITSTRING	0	XMAMFLIF_XFUNCTION_ARM	"B'1000000000000000" ++ XFUNCTION.ARM KEYWORD
795	(31B)	CHARACTER	8	XMAMFLIF_XGROUPNAME	++ XGROUPNAME
795	(31B)	X'3B'	0	XMAMFLIFL	"*-XMAMFLIF" ++ LENGTH OF PLIST
Comment					
IXZXIXIF-2					
End of Comment					
804	(324)	SIGNED	4		Reserved for IBM use
808	(328)	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'328'	0	M00M1348	"XMAMFLAC" ++ IXZXIXAC NAME
808	(328)	DBL WORD	8	XMAMFLAC (0)	++ IXZXIXAC PARM LIST
808	(328)	BITSTRING	1	XMAMFLAC_XVERSION	++ INPUT XVERSION
809	(329)	CHARACTER	6	XMAMFLAC_XEYECATCH	++ CONSTANT XEYECATCH
815	(32F)	BITSTRING	1	XMAMFLAC_XSTB	++ INPUT
		1... ....		XMAMFLAC_XSTB_NO	"B'10000000" ++ XSTB.NO KEYWORD
		.1.. ....		XMAMFLAC_XSTB_YES	"B'01000000" ++ XSTB.YES KEYWORD
816	(330)	BITSTRING	8	XMAMFLAC_XMSGTOKEN	++ XMSGTOKEN
824	(338)	ADDRESS	4	XMAMFLAC_XDATA	++ XDATA
828	(33C)	SIGNED	4	XMAMFLAC_XDATALEN	++ XDATALEN
832	(340)	SIGNED	4	XMAMFLAC_XUSERRC	++ XUSERRC

# \$XMAS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
836	(344)	SIGNED	4	XMAMFLAC_XGROUPTOKEN	++ XGROUPTOKEN
840	(348)	SIGNED	4	XMAMFLAC_XSYSRC	++ XSYSRC
844	(34C)	SIGNED	4	XMAMFLAC_XSYSRSN	++ XSYSRSN
848	(350)	BITSTRING	1	XMAMFLAC_XKEYS	++ FIELD_LABEL
		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_SYSRN	"B'00001000" ++ KEYUSED.SYSRSN KEYWORD
849	(351)	BITSTRING	1	XMAMFLAC_XMSGATTR	++ INPUT
		1... ....		XMAMFLAC_XMSGATTR_J3CONNECT	"B'10000000" ++ XMSGATTR.J3CONNECT KEYWORD
		.1.. ....		XMAMFLAC_XMSGATTR_EXPRESS	"B'01000000" ++ XMSGATTR.EXPRESS KEYWORD
849	(351)	X'2A'	0	XMAMFLACL	"*-XMAMFLAC" ++ LENGTH OF PLIST
Comment					
IXZXIXAC-1					
End of Comment					
856	(358)	DBL WORD	8	(0)	Double word alignment
Comment					
IXZXIXRM MF=(L, XMAMFLRM) IXZXIXRM list area					
MACDATE -93/05/10-<1>					
End of Comment					
856	(358)	SIGNED	2	M00M1349 (0)	IXZXIXRM-1
856	(358)	DBL WORD	8	XMAMFLRM (0)	++ IXZXIXRM PARM LIST
856	(358)	BITSTRING	1	XMAMFLRM_XVERSION	++ INPUT XVERSION
857	(359)	CHARACTER	6	XMAMFLRM_XEYECATCH	++ CONSTANT XEYECATCH
863	(35F)	CHARACTER	1	XMAMFLRM_XRSV0001	++ RESERVED XRSV0001
864	(360)	CHARACTER	16	XMAMFLRM_XMBOXNAME	++ XMBOXNAME
880	(370)	ADDRESS	4	XMAMFLRM_XDATA	++ XDATA
884	(374)	SIGNED	4	XMAMFLRM_XDATALEN	++ XDATALEN
888	(378)	BITSTRING	8	XMAMFLRM_XMSGTOKEN	++ XMSGTOKEN
896	(380)	SIGNED	4	XMAMFLRM_XGROUPTOKEN	++ XGROUPTOKEN
900	(384)	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	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...1 ....		XMAMFLRM_XMSGFETCH_ACKS	"B'00100000" ++ XMSGFETCH.SYSEVENT KEYWORD
901	(385)	BITSTRING	1	XMAMFLRM_XKEYS	"B'00010000" ++ XMSGFETCH.ACKS KEYWORD
		1... ....		XMAMFLRM_KEYUSED_MSGFETCH	++ FIELD_LABEL
901	(385)	X'2E'	0	XMAMFLRML	"B'10000000" ++ KEYUSED.MSGFETCH KEYWORD "-XMAMFLRM" ++ LENGTH OF PLIST
Comment					
IXZXIXRM-1					
End of Comment					
904	(388)	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'388'	0	M00M1350	"XMAMFLCL" ++ IXZXIXCL NAME
904	(388)	DBL WORD	8	XMAMFLCL (0)	++ IXZXIXCL PARM LIST
904	(388)	BITSTRING	1	XMAMFLCL_XVERSION	++ INPUT XVERSION
905	(389)	CHARACTER	6	XMAMFLCL_XEYECATCH	++ CONSTANT XEYECATCH
911	(38F)	CHARACTER	1	XMAMFLCL_XRSV0001	++ RESERVED XRSV0001
912	(390)	SIGNED	4	XMAMFLCL_XFAILEDYSYS	++ XFAILEDYSYS
916	(394)	SIGNED	4	XMAMFLCL_XGROUPTOKEN	++ XGROUPTOKEN
916	(394)	X'10'	0	XMAMFLCLL	"*-XMAMFLCL" ++ LENGTH OF PLIST
Comment					
IXZXIXCL-1					
End of Comment					
920	(398)	DBL WORD	8	(0)	Double word alignment
Comment					
IXZXIXMC MF=(L, XMAMFLMC) IXZXIXMC list area MACDATE -93/05/10-<1>					
End of Comment					
920	(398)	SIGNED	2	M00M1351 (0)	IXZXIXMC-1
920	(398)	DBL WORD	8	XMAMFLMC (0)	++ IXZXIXMC PARM LIST
920	(398)	BITSTRING	1	XMAMFLMC_XVERSION	++ INPUT XVERSION
921	(399)	CHARACTER	6	XMAMFLMC_XEYECATCH	++ CONSTANT XEYECATCH
927	(39F)	BITSTRING	1	XMAMFLMC_XSTB	++ INPUT
		1... ....		XMAMFLMC_XSTB_NO	"B'10000000" ++ XSTB.NO KEYWORD
		.1.. ....		XMAMFLMC_XSTB_YES	"B'01000000" ++ XSTB.YES KEYWORD
928	(3A0)	CHARACTER	16	XMAMFLMC_XMBOXNAME	++ XMBOXNAME
944	(3B0)	SIGNED	4	XMAMFLMC_XGROUPTOKEN	

# \$XMAS Map

## Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
944	(3B0)	X'1C'	0	XMAMFLMCL	++ XGROUPTOKEN "-XMAMFLMC" ++ LENGTH OF PLIST
Comment					
IXZXIXMC-1 End of fields used within MVS macros.					
End of Comment					
952	(3B8)	DBL WORD	8	(0)	Ensure double word aligned
952	(3B8)	X'3B8'	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
32	(20)	BITSTRING	4		Reserved

Comment

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

End of Comment

40	(28)	DBL WORD	8	XMAQITIM	TOD of last CKPT access for this member
48	(30)	BITSTRING	1	XMAQMEMP	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.  
-----

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 QSEMSID
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
124	(7C)	SIGNED	4	(3)	Reserved
124	(7C)	X'88'	0	XMAQECLR	"*-XMAQENT" Length that can be cleared
136	(88)	ADDRESS	8	XMAQCDCQ	Pointer to CDCTQS for this member (64-bit address)
144	(90)	ADDRESS	8	XMAQCNI	Ptr to NIT array for this member (64-bit addr)
152	(98)	SIGNED	4	XMAQCNI	ALET for NIT array
156	(9C)	BITSTRING	1	XMAQCNI	NIT data version
157	(9D)	BITSTRING	1	XMAQCNI	Nr of paths in each NIT entry
158	(9E)	BITSTRING	2		Reserved
160	(A0)	DBL WORD	8	(0)	Insure double word aligned
160	(A0)	X'A0'	0	XMAQELEN	"*-XMAQENT" Length of XMAQENT element

## \$XMAS Map

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	(1)	BITSTRING	3	XMAJXRS3	Internal JESXCF use
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)
Comment					
<p>The last three bytes of the user state are shared between JES2, JES3, and JESXCF. There offsets must not change</p>					
End of Comment					
29	(1D)	BITSTRING	3	XMAFEAT (0)	Functions that this JES supports
29	(1D)	BITSTRING	1	XMAFEAT1	Feature byte 1
		1... ....		XMAARM	"B'10000000" This JES supports ARM
29	(1D)	X'1E'	0	XMAUSED	"*-XMAXUS" Amount of user state in use
30	(1E)	BITSTRING	1		Reserved for IBM use
30	(1E)	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	XMAMFLAC_KEYUSED_DATALEN	350	40
MEMALICE	31	DC	XMAMFLAC_KEYUSED_SYSRC	350	10
MEMDEF	31	40	XMAMFLAC_KEYUSED_SYSRSN	350	8
MEMDORM	31	6A	XMAMFLAC_KEYUSED_USERRC	350	20
MEMDOWN	31	80	XMAMFLAC_XDATA	338	
MEMDRAIN	31	CB	XMAMFLAC_XDATALEN	33C	
MEMFAIL	31	10	XMAMFLAC_XKEYECATCH	329	
MEMFILTR	31	F0	XMAMFLAC_XGROUPTOKEN	344	
MEMINACT	31	C4	XMAMFLAC_XKEYS	350	
MEMINIT	31	65	XMAMFLAC_XMSGATTR	351	
MEMINU	31	20	XMAMFLAC_XMSGATTR_EXPRESS	351	40
MEMJESF	31	D7	XMAMFLAC_XMSGATTR_J3CONNECT	351	80
MEMMVSG	31	D9	XMAMFLAC_XMSGTOKEN	330	
MEMTERM	31	66	XMAMFLAC_XSTB	32F	
MEMUNDEF	31	1	XMAMFLAC_XSTB_NO	32F	80
MEMUPEND	31	2	XMAMFLAC_XSTB_YES	32F	40
MEMXCFF	31	D8	XMAMFLAC_XSYSRC	348	
M00M1341	0	200	XMAMFLAC_XSYSRSN	34C	
M00M1343	0	228	XMAMFLAC_XUSERRC	340	
M00M1344	0	268	XMAMFLAC_XVERSION	328	
M00M1345	280		XMAMFLACL	351	2A
M00M1346	2B0		XMAMFLAT	228	
M00M1347	0	2E8	XMAMFLAT_XDIAG	25C	
M00M1348	0	328	XMAMFLAT_XKEYECATCH	229	
M00M1349	358		XMAMFLAT_XFLAG1	258	
M00M1350	0	388	XMAMFLAT_XFLAG2	259	
M00M1351	398		XMAMFLAT_XGROUP	230	
XMA	0		XMAMFLAT_XGROUPTOKEN	254	
XMAADORM	40		XMAMFLAT_XJ3CONNECT_NO	259	80
XMAAHOLD	3C		XMAMFLAT_XJ3CONNECT_YES	259	40
XMAARM	1D	80	XMAMFLAT_XLINKPARMS	260	
XMAATTCH	0	80	XMAMFLAT_XMAINTLVL	250	
XMAAXRQ	B0		XMAMFLAT_XMEMBER		
XMABLDM	160	C2D3C440			
XMABLDML	0	58			
XMACDCUP	AC				
XMACOLDT	4				
XMADIAG	154				
XMAFEAT	1D				
XMAFEAT1	1D				
XMAFLAG1	38				
XMAFLAG2	39				
XMAFLAG3	3B				
XMAFLAG4	3C				
XMAFLAG5	3D				
XMAFLAG6	3E				
XMAID	0				
XMAIFAA	1FC				
XMAIFALN	1F8				
XMAJNNM	158				
XMAJXCF	0				
XMAJXFL1	0				
XMAJXRS3	1				
XMALEN	3B8	3B8			
XMAMADDR	84				
XMAMEMAT	A4				
XMAMEMDT	8				
XMAMEMNM	18				
XMAMEMST	1D8				
XMAMEMUP	A0				
XMAMFLAC	328				
XMAMFLAC_KEYUSED_DATA	350	80			

## \$XMAS Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
	238		XMAMFLIF_XGROUPNAME		
XMAMFLAT_XRELEASE				31B	
	248		XMAMFLIF_XGROUPTOKEN		
XMAMFLAT_XRSV0001				2F0	
	22F		XMAMFLIF_XINFOLVL		
XMAMFLAT_XRSV0002				314	
	25A		XMAMFLIF_XINFOLVL_GROUP		
XMAMFLAT_XVERSION				314	80
	228		XMAMFLIF_XINFOLVL_MEMBER		
XMAMFLAT_XWHICHJES_COMMON				314	40
	258	8	XMAMFLIF_XKEYS		
XMAMFLAT_XWHICHJES_INIT				315	
	258	10	XMAMFLIF_XPOLYJES		
XMAMFLAT_XWHICHJES_JES2				318	
	258	80	XMAMFLIF_XPOLYJES_NO		
XMAMFLAT_XWHICHJES_JES3				318	40
	258	40	XMAMFLIF_XPOLYJES_YES		
XMAMFLAT_XWHICHJES_J3CIFSS				318	80
	258	4	XMAMFLIF_XREQMBOX		
XMAMFLAT_XWHICHJES_J3FSS				2F4	
	258	20	XMAMFLIF_XREQTOKEN		
XMAMFLATL				304	
XMAMFLCL			XMAMFLIF_XRSV0001		
	388			2EF	
XMAMFLCL_XEYECATCH			XMAMFLIF_XSTATE		
	389			316	
XMAMFLCL_XFAILEDYSYS			XMAMFLIF_XSTATE_ACTIVE		
	390			316	40
XMAMFLCL_XGROUPTOKEN			XMAMFLIF_XSTATE_ANY		
	394			316	80
XMAMFLCL_XRSV0001			XMAMFLIF_XSYSTEM		
	38F			317	
XMAMFLCL_XVERSION			XMAMFLIF_XSYSTEM_ANY		
	388			317	80
XMAMFLCLL			XMAMFLIF_XSYSTEM_CURRENT		
	394	10		317	40
XMAMFLDT			XMAMFLIF_XVERSION		
	268			2E8	
XMAMFLDT_XEYECATCH			XMAMFLIFL		
	269			31B	3B
XMAMFLDT_XGROUPTOKEN			XMAMFLMB		
	270			280	
XMAMFLDT_XLINKPARMS			XMAMFLMB_XEYECATCH		
	274			281	
XMAMFLDT_XRSV0001			XMAMFLMB_XGROUPTOKEN		
	26F			2A4	
XMAMFLDT_XVERSION			XMAMFLMB_XMBOXNAME		
	268			288	
XMAMFLDTL			XMAMFLMB_XPOSTALET		
	274	14		2A0	
XMAMFLIF			XMAMFLMB_XPOSTDATA		
	2E8			29C	
XMAMFLIF_KEYUSED_ANSAREA			XMAMFLMB_XPOSTXIT		
	315	40		298	
XMAMFLIF_KEYUSED_GROUPNAME			XMAMFLMB_XRSV0001		
	315	10		287	
XMAMFLIF_KEYUSED_GROUPTOKEN			XMAMFLMB_XSYSEVENT_NO		
	315	20		2A8	40
XMAMFLIF_KEYUSED_REQMBOX			XMAMFLMB_XSYSEVENT_YES		
	315	80		2A8	80
XMAMFLIF_XANSAREA			XMAMFLMB_XSYSEVENTS		
	30C			2A8	
XMAMFLIF_XANSLEN			XMAMFLMB_XVERSION		
	310			280	
XMAMFLIF_XEYECATCH			XMAMFLMBL		
	2E9			2A8	29
XMAMFLIF_XFUNCTION			XMAMFLMC		
	319			398	
XMAMFLIF_XFUNCTION_ARM			XMAMFLMC_XEYECATCH		
	319	8000			

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
	399		XMAMFLRM_XGROUPTOKEN	380	
XMAMFLMC_XGROUPTOKEN	3B0		XMAMFLRM_XKEYS	385	
XMAMFLMC_XMBOXNAME	3A0		XMAMFLRM_XMBOXNAME	360	
XMAMFLMC_XSTB	39F		XMAMFLRM_XMSGFETCH	384	
XMAMFLMC_XSTB_NO	39F	80	XMAMFLRM_XMSGFETCH_ACKS	384	10
XMAMFLMC_XSTB_YES	39F	40	XMAMFLRM_XMSGFETCH_ALL	384	80
XMAMFLMC_XVERSION	398		XMAMFLRM_XMSGFETCH_MESSAGES	384	40
XMAMFLMCL	3B0	1C	XMAMFLRM_XMSGFETCH_SYSEVENT	384	20
XMAMFLQR	200		XMAMFLRM_XMSGTOKEN	378	
XMAMFLQR_PL_END	218	228	XMAMFLRM_XRSV0001	35F	
XMAMFLQR_XANSAREA_ADDR	204		XMAMFLRM_XVERSION	358	
XMAMFLQR_XANSAREA_ALET	208		XMAMFLRML	385	2E
XMAMFLQR_XANSLEN	20C		XMAMFLUS	2B0	
XMAMFLQR_XGRPNAME	210		XMAMFLUS_XEYECATCH	2B1	
XMAMFLQR_XMEMNAME	218		XMAMFLUS_XGROUPTOKEN	2D8	
XMAMFLQR_XQUAALEVEL	203		XMAMFLUS_XRSV0001	2B7	
XMAMFLQR_XREQINFO	202		XMAMFLUS_XUPDTYPE	2DC	
XMAMFLQR_XREQINFO_ARMS_ALLDATA	202	1	XMAMFLUS_XUPDTYPE_AND	2DC	40
XMAMFLQR_XREQINFO_ARMSTATUS	202	2	XMAMFLUS_XUPDTYPE_OR	2DC	20
XMAMFLQR_XREQINFO_CF	202	20	XMAMFLUS_XUPDTYPE_REPLACE	2DC	80
XMAMFLQR_XREQINFO_CF_ALLDATA	202	8	XMAMFLUS_XUSTATE	2B8	
XMAMFLQR_XREQINFO_GROUP	202	80	XMAMFLUS_XVERSION	2B0	
XMAMFLQR_XREQINFO_STR	202	10	XMAMFLUSL	2DC	2D
XMAMFLQR_XREQINFO_STR_ALLDATA	202	4	XMAMLEN	88	
XMAMFLQR_XREQINFO_SYSPLEX	202	40	XMAMLOCL	3A	1
XMAMFLQR_XREQTYPE	201		XMAMODE	3A	
XMAMFLQR_XREQTYPE_DEFER	201	5	XMAMTOKE	8C	
XMAMFLQR_XREQTYPE_IMMEDIATE	201	10	XMAMTKN	98	
XMAMFLQR_XVERSION	200		XMANPMUP	A8	
XMAMFLQRL	218	28	XMANSACT	34	1
XMAMFLRM	358		XMANSFLD	34	2
XMAMFLRM_KEYUSED_MSGFETCH	385	80	XMANSNGON	34	3
XMAMFLRM_XDATA	370		XMANSJES	34	4
XMAMFLRM_XDATALEN	374		XMAOTHMN	1E0	
XMAMFLRM_XEYECATCH	359		XMAOXMAS	1DC	
			XMAPLIWK	1F0	
			XMAPLXID	C	
			XMAPLXNM	70	
			XMAPTIME	78	
			XMAQCDCQ	88	
			XMAQCNIA	98	
			XMAQCNIP	9D	
			XMAQCNIT	90	
			XMAQCNIV	9C	
			XMAQCOM	5E	5B

## \$XMAS Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
XMAQCRF1	35		XMAUNUTS	14	10
XMAQDATA	B4		XMAUSED	1D	1E
XMAQECLR	7C	88	XMAUSFLG	14	
XMAQEFL1	1C		XMAUSFL1	15	
XMAQEFL2	37		XMAUSLEN	1E	20
XMAQELEN	A0	A0	XMAUSMID	16	
XMAQENT	0		XMAUTERM	14	40
XMAQESYS	10		XMAUXCMA	14	8
XMAQESYT	18		XMAVNUM	4	2
XMAQETIM	8		XMAVRALN	5C	60
XMAQE1AE	1C	2	XMAVRSN	4	
XMAQE1JR	1C	1	XMAXECB	40	
XMAQE1VR	1C	4	XMAXUS	0	
XMAQE1XG	1C	8	XMAXUSST	1B8	
XMAQHOLD	38		XMA1AOFF	15	40
XMAQITIM	28		XMA1AON	15	80
XMAQJXF1	36		XMA1AXMA	38	10
XMAQMAXD	64		XMA1INIT	38	40
XMAQMEMB	30		XMA1JOIN	38	80
XMAQMIND	60		XMA2CDEL	39	40
XMAQNEWS	34		XMA2FRR	39	80
XMAQRSID	5F		XMA3INIT	3B	80
XMAQSEST	5B		XMA3JOIN	3B	8
XMAQSES2	5C		XMA3LEAV	3B	2
XMAQSID	0		XMA3MEMS	3B	20
XMAQSIZE	1E		XMA3QUER	3B	1
XMAQSNAM	48		XMA3SYSG	3B	40
XMAQSTAT	31		XMA3USRS	3B	10
XMAQSTIM	6C		XMA3USTA	3B	4
XMAQSTYP	5A		XMA4DELT	3C	10
XMAQSYNC	68		XMA4DQ	3C	80
XMAQSYSL	78		XMA4MAPE	3C	40
XMAQUFLG	32		XMA4MEMN	3C	4
XMAQUFL1	33		XMA4MQER	3C	8
XMAQVSID	4C		XMA4PURG	3C	20
XMAQXNOD	70		XMA4XMQU	3C	2
XMAQXSYS	44		XMA5ESYS	3D	80
XMAQ2PLV	50		XMA6FCEL	3E	10
XMAQ2PRS	37	80	XMA6XCFR	3E	20
XMAQ2SLV	51		XMA6XMAR	3E	40
XMAQ2VRN	52		XMA6XMAS	3E	80
XMAQ2VR2	5D				
XMAREQ	5C				
XMARSN	2C				
XMARTN	28				
XMASERV	30				
XMASIDNM	80				
XMASNUM	64				
XMASYSNM	68				
XMASYTOK	64				
XMAUACTN	14	20			
XMAUCDCA	14	4			
XMAUCRF1	17				
XMAUCRLV	18				
XMAUC1CF	17	2			
XMAUC1CO	17	10			
XMAUC1DC	17	7F			
XMAUC1DL	17	4			
XMAUC1DR	17	8			
XMAUC1IO	17	1			
XMAUC1MD	17	20			
XMAUC1RC	17	80			
XMAUC1SC	17	3F			
XMAUC1ST	17	40			
XMAUINIT	14	80			

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## \$XPL Programming Interface information

Programming Interface information

\$XPL

End of Programming Interface information

## \$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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...1 ....		XPLREB3	"B'00010000" define their own meaning
		.... 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					
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 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 RJC3BLOC 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 RJC 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					
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
40	(28)	X'2C'	0	X003SIZE	**"XPL" Size of XPL for Exit 3

# \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Exit 4 XPL values 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' .... ...1	0	X004XID X004VERN	"4" Exit 4 ID "X'01" Exit 4 XPL version number
Comment					
Indicator byte equates					
End of Comment					
40	(28)	X'7' .... .... .... .1..	0	X004IND X004JCL X004JECL	"XPLIND" Indicator byte "X'00" I.JCL card detected "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 RJC3)
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 RJC3s to queue before current statement
68	(44)	ADDRESS	4	X004RJCA	O.Chain of RJC3s to queue after current statement
72	(48)	ADDRESS	4	X004RJCC	O.Chain of RJC3s to queue after current card
76	(4C)	BITSTRING	1	X004FLG1	Statement flag byte

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Following bits should be the same as RJC 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 7 XPL values					
End of Comment					
		.... ...1		X007VERN	"X'01" Exit 07 XPL version number
96	(60)	X'7'	0	X007XID	"7" Exit 07 id
Comment					
Indicator byte equates					
End of Comment					
96	(60)	X'7'	0	X007IND	"XPLIND" Indicator byte equate
Comment					
Response byte equates					
End of Comment					
96	(60)	X'9'	0	X007RESP	"XPLRESP" Response byte equate
96	(60)	X'80'	0	X007IOER	"XPLREB0" Response bit to indicate I/O error
Comment					
Condition byte equates					
End of Comment					
96	(60)	X'8'	0	X007COND	"XPLCOND" Condition byte equate
96	(60)	X'40'	0	X007CBWR	"XPLCOB1" Control block is to be written
96	(60)	X'20'	0	X007CBUN	"XPLCOB2" Unknown control block read
96	(60)	X'10'	0	X007CBIN	"XPLCOB3" Invalid control block read
96	(60)	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

# \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Exit 8 XPL values					
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					
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					
End of Comment					
16	(10)	.... ..1. 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					

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
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

## \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Exit 15 XPL values					
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
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 PDDDB 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 PDDDB
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	X015PDDDB	Address of the current PDDDB
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 20 XPL values					
End of Comment					
72	(48)	X'14' .... ...1.	0	X020XID X020VERN	"20" Exit 20 ID "X'02" Exit 20 XPL version number

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Indicator byte equates					
End of Comment					
72	(48)	X'7'	0	X020IND	"XPLIND" Indicator byte equate
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 22 XPL values					
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

## \$XPL Map

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 24 XPL values					
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
22	(16)	X'18'	0	X024SIZE	** -XPL" Size of XPL for exit 24



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Exit 31 XPL values					
End of Comment					
22	(16)	.... ...1 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
Comment					
Exit 36 XPL values					
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

# \$XPL Map

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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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					
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.
Comment					
Exit 39 XPL values					
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

# \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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					
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' 1... .... .1... .... ..1. ....	0	X040IND X040SPIN X040NSPN X040UNSP	"XPLIND" Indicator byte "X'80" This is a spin data set "X'40" This is a non-spin data set "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
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					
End of Comment					
		.... ...1		X041VERN	"X'01" Exit 41 XPL version number

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
32	(20)	X'29'	0	X041XID	"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					
End of Comment					
24	(18)	.... ..1. X'2A'	0	X042VERN X042XID	"X'02" Exit 42 XPL version number "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

# \$XPL Map

## Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

-----  
 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.  
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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	X042NEWWR	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
46	(2E)	X'30'	0	X042SIZE	**"XPL" Length of Exit 42 xpl

Comment

Exit 43 XPL values

End of Comment

		.... ...1		X043VERN	"X'01" Exit 43 XPL version number
46	(2E)	X'2B'	0	X043XID	"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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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					
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
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

## \$XPL Map

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



Offsets

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

-----  
 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.  
 -----

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

X045FLG1 flag bit definitions must correspond to the ones in SSSFFLG1 (IAZSSSF) and in SFRFFLG1 (\$SFRB).

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

Comment

Exit 46 XPL values

End of Comment

86	(56)	.... ..1. X'2E'	0	X046VERN X046XID	"X'02" Exit 46 XPL version number "46" Exit 46 id
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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

# \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...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					
End of Comment					
		.... ..1.		X047VERN	"X'02" Exit 47 XPL version number
40	(28)	X'2F'	0	X047XID	"47" Exit 47 id
Comment					
Indicator byte equates					
End of Comment					
40	(28)	X'7'	0	X047IND	"XPLIND" Indicator byte
		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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
40	(28)	X'80' .111 1111	0	X047TERM X047INV	"XPLREB0" Terminate this reception "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 49 XPL values

End of Comment

36	(24)	X'31'	0	X049VERN X049XID	"X'01" Exit 49 XPL version number "49" Exit 49 id
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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
----	------	------	---	----------	--------------------------

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 \$\$ job)
20	(14)	X'18'	0	X049SIZE	**"XPL" Length of Exit 49 XPL

Comment

Exit 50 XPL values

The mappings of exits 20 and 50 are identical.

End of Comment

20	(14)	X'32'	0	X050XID X050VERN	"50" Exit 50 ID "X'01" Exit 50 XPL version number
----	------	-------	---	---------------------	--

# \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
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					
End of Comment					
68	(44)	X'33'	0	X051XID	"51" Exit 51 ID
		.... ...1		X051VERN	"X'01" Exit 51 XPL version number
Comment					
Indicator byte equates					
End of Comment					
68	(44)	X'7'	0	X051IND	"XPLIND" Indicator byte

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
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					
X051JOBBC, X051SENV, X051SAF, X0511IND are only meaningfull if NEWQ is X051QCNV, X051QSET, X051QXEQ					
End of Comment					
28	(1C)	CHARACTER	8	X051JOBBC	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

## \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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					
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
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 RJC3)

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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 RJCBS to queue before current statement
68	(44)	ADDRESS	4	X052RJCA	O.Chain of RJCBS to queue after current statement
72	(48)	ADDRESS	4	X052RJCC	O.Chain of RJCBS to queue after current card
76	(4C)	BITSTRING	1	X052FLG1	Statement flag byte

Comment

Following bits should be the same as RJCBS 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

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  
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
----	------	------	---	----------	--------------------------

## \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
Comment					
Exit 54 XPL values					
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'	0	X054XID	"54" Exit 54 ID
		.... ...1		X054VERN	"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



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

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 and 54 are same size
96	(60)	ADDRESS	2	(0)	Ensure XPL for exits 4 and 54 are same size
96	(60)	ADDRESS	2	(0)	Ensure XPL for exits 4 and 54 are same size
96	(60)	ADDRESS	2	(0)	Ensure XPL for exits 4 and 54 are same size

Comment

Exit 55 XPL values

End of Comment

		.... ...1		X055VERN	"X'01" Exit 55 XPL version number
96	(60)	X'37'	0	X055XID	"55" Exit 55 id

Comment

Indicator Byte Equates

End of Comment

96	(60)	X'7'	0	X055IND	"XPLIND" Indicator byte
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# \$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
Comment					
Exit 56 XPL values					
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)

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

End of Comment

40	(28)	.... ...1 X'39'	0	X057VERN X057XID	"X'01" Exit 57 XPL version number "57" Exit 57 id
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Comment

Indicator byte equates

End of Comment

40	(28)	X'7'	0	X057IND	"XPLIND" Indicator byte
		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
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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 Comment

36	(24)	.... ...1 X'3A'	0	X058VERN X058XID	"X'01" Exit 58 XPL version number "58" Exit 58 id
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Comment

Indicator byte equates

End of Comment

## \$XPL Cross Reference

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

## \$XPL Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
XPL	0		X001HBUF	34	
XPLBLEN	C	10	X001IND	10	7
XPLCOB0	8	80	X001JCNT	10	20
XPLCOB1	8	40	X001JCT	14	
XPLCOB2	8	20	X001JHDR	10	80
XPLCOB3	8	10	X001JNWS	10	40
XPLCOB4	8	8	X001JOA	20	
XPLCOB5	8	4	X001JQE	1C	
XPLCOB6	8	2	X001JTLR	10	40
XPLCOB7	8	1	X001NSWB	30	
XPLCOND	8		X001PDDB	28	
XPLEXLEV	6		X001PLUS	10	10
XPLID	0	5BE7D7D3	X001RESP	10	9
XPLIND	7		X001RSVD	32	
XPLLEVEL	4		X001SIZE	34	38
XPLPLUS	10		X001SWBT	2C	
XPLREB0	9	80	X001VERN	10	1
XPLREB1	9	40	X001WJOE	34	20
XPLREB2	9	20	X001XID	10	1
XPLREB3	9	10	X002AREA	24	
XPLREB4	9	8	X002CARD	10	
XPLREB5	9	4	X002CCMT	4C	2
XPLREB6	9	2	X002COND	34	8
XPLREB7	9	1	X002CONT	34	80
XPLRESP	9		X002FLGX	14	
XPLSIZE	A		X002FLG1	4C	
XPLVERN	4	1	X002IND	34	7
XPLXITID	5		X002JCMT	34	20
X001COND	10	8	X002JCT	1C	
X001DCT	10		X002JOBC	34	8
X001DFSP	10	80	X002JQE	20	
X001DSCT	18		X002JXWR	18	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
X002KILL	34	10	X004RJCC	48	
X002LAST	4C	1	X004RJCP	40	
X002LOPR	4C	8	X004RLOC	28	4
X002OCLS	50		X004SEC	28	10
X002OJNM	58		X004SIZE	58	60
X002PLUS	34	10	X004STME	2C	
X002PURG	34	8	X004STML	30	
X002QUOT	4C	4	X004STMT	28	
X002RESP	34	9	X004STMV	38	
X002RJCA	44		X004VERN	28	1
X002RJCC	48		X004XID	28	4
X002RJCP	40		X004XSEM	28	40
X002RLOC	34	4	X004XSNC	28	80
X002SEC	34	10	X007CBID	10	
X002SIZE	58	60	X007CBIN	60	10
X002STME	2C		X007CBUN	60	20
X002STML	30		X007CBWR	60	40
X002STMT	28		X007COND	60	8
X002STMV	38		X007IND	60	7
X002VERN	34	2	X007IOER	60	80
X002XID	34	2	X007PLUS	60	10
X002XSEM	34	40	X007RESP	60	9
X002XSNC	34	80	X007SIZE	10	14
X003ACCT	10		X007VERN	60	1
X003ACTL	1C		X007XID	60	7
X003AREA	28		X008CBID	10	
X003COND	58	8	X008CBIN	10	10
X003FLGX	14		X008CBUN	10	20
X003IND	58	7	X008CBWR	10	40
X003JCT	20		X008COND	10	8
X003JQE	24		X008FSSM	10	8
X003JXWR	18		X008IND	10	7
X003KILL	58	20	X008IOER	10	80
X003PLUS	58	10	X008PLUS	10	10
X003RESP	58	9	X008RESP	10	9
X003SIZE	28	2C	X008SIZE	10	14
X003SKIP	58	40	X008VERN	10	1
X003VERN	58	1	X008XID	10	8
X003XID	58	3	X009BEXC	10	10
X003XSEM	58	80	X009BINC	28	
X004AREA	24		X009BVAL	1C	
X004CARD	10		X009CEXC	10	80
X004CCMT	4C	2	X009CNCL	10	4
X004CMND	28	20	X009COND	10	8
X004COND	28	8	X009CONX	10	F0
X004CONT	28	80	X009DBYT	40	
X004FLGX	14		X009DLIN	30	
X004FLG1	4C		X009DPAG	38	
X004IND	28	7	X009DUMP	10	2
X004JCL	28	0	X009IND	10	7
X004JCMT	28	20	X009INDX	10	F
X004JCT	1C		X009JCT	10	
X004JECL	28	4	X009LEXC	10	40
X004JOBP	28	40	X009LVAL	14	
X004JQE	20		X009OLIR	10	40
X004JXWR	18		X009PEXC	10	20
X004KILL	28	10	X009PINC	24	
X004LAST	4C	1	X009PLUS	10	10
X004LOPR	4C	8	X009PVAL	18	
X004PLUS	28	10	X009RESO	10	3
X004PREJ	28	1	X009RESP	10	9
X004PURG	28	8	X009RESX	10	E0
X004QUOT	4C	4	X009RINC	20	
X004RESP	28	9	X009SDEM	10	20
X004RJCA	44		X009SIZE	48	48

## \$XPL Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
X009USER	10	8	X022FRST	44	0
X009USRB	10	10	X022IND	44	7
X009VERN	10	2	X022IOER	44	80
X009WARN	10	1	X022MURE	44	4
X009XID	10	9	X022MUST	44	8
X009XOVR	10	80	X022PLUS	44	10
X009722D	10	2	X022RESP	44	9
X009722N	10	1	X022SIZE	14	18
X015BYP	48	80	X022STAA	14	
X015CCWT	38		X022STAC	10	
X015CGCT	48		X022VERN	44	1
X015COND	48	8	X022XID	44	16
X015CPGP	44		X024ALLS	14	10
X015CPRT	40		X024COFM	14	1
X015DCT	10		X024COLD	14	4
X015DSCT	18		X024COND	14	8
X015DSEL	48	80	X024ESYS	14	8
X015DSEP	48	40	X024HOT	14	40
X015IND	48	7	X024IND	14	7
X015JCT	14		X024IPL	14	2
X015JOA	20		X024PLUS	14	10
X015JQE	1C		X024QCK	14	20
X015NCOP	3C		X024RESP	14	9
X015NSWB	30		X024RSSI	14	80
X015PDDB	28		X024SIZE	16	18
X015PLUS	48	10	X024SSIA	10	
X015PRTR	34		X024SSIL	16	
X015RESP	48	9	X024SSWL	14	
X015RFSW	48	80	X024VERN	14	1
X015RSVD	32		X024WARM	14	80
X015SEPP	48	40	X024XID	14	18
X015SIZE	48	4C	X031COND	16	8
X015SWBT	2C		X031DSTY	10	
X015VERN	48	1	X031ERR	16	1
X015WJOE	48	20	X031FAIL	16	1
X015XID	48	F	X031IND	16	7
X020AREA	1C		X031INTR	10	0
X020AVF	48	10	X031IOT	24	
X020BSAF	48	20	X031JFCB	1C	
X020COND	48	8	X031JSNW	10	4
X020DCT	18		X031PDDB	20	
X020FLG1	21		X031PLUS	16	10
X020GJOB	48	80	X031PSPI	10	10
X020IND	48	7	X031RESP	16	9
X020JCLS	38		X031SDB	14	
X020JCT	10		X031SDSB	10	14
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	X036BYP	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	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
X036SIZE	24	28	X041JDVT	18	
X036USER	24	40	X041PLUS	20	10
X036VERN	24	1	X041RESP	20	9
X036WAVE	14		X041RSVN	16	18
X036XID	24	24	X041SIZE	18	20
X037COND	24	8	X041TOTN	16	
X037IND	24	7	X041VERN	20	1
X037JES2	24	80	X041XID	20	29
X037NORC	24	2	X042CANC	18	80
X037PARM	10		X042CKEY	2C	
X037PLUS	24	10	X042COND	18	8
X037RCBA	1C		X042DERR	18	2
X037RCBN	18		X042EMSG	18	40
X037RESP	24	9	X042EXTE	18	10
X037RETC	20		X042IND	18	7
X037RSNC	24		X042MAIN	18	1
X037SIZE	24	28	X042MEMB	2D	
X037USER	24	40	X042MEMC	18	2
X037VERN	24	1	X042MSGC	18	4
X037WAVE	14		X042NEWM	28	
X037XID	24	25	X042NEWN	14	
X038COND	24	8	X042NEWR	16	
X038IND	24	7	X042NEWU	20	
X038JOA	14		X042NOAU	18	8
X038JOE	14	14	X042NOCH	18	20
X038KEEP	24	80	X042NOXT	18	20
X038PLUS	24	10	X042NWML	18	
X038PSO	10		X042PLUS	18	10
X038RESP	24	9	X042RC	1C	
X038SIZE	14	18	X042REAS	1A	
X038VERN	24	1	X042RESP	18	9
X038XID	24	26	X042RMCH	18	10
X039AREA	1C		X042SETR	18	40
X039COND	14	8	X042SIZE	2E	30
X039IND	14	7	X042SNUA	10	
X039JCT	14		X042UERR	18	4
X039NDH	18		X042UNTK	18	80
X039PDDB	10		X042USCH	18	8
X039PLUS	14	10	X042VERN	18	2
X039RECV	14	80	X042XID	18	2A
X039RESP	14	9	X043CHG	2E	20
X039SIZE	1C	20	X043COND	2E	8
X039VERN	14	1	X043IND	2E	7
X039XID	14	27	X043JCT	14	
X040COND	1C	8	X043PLUS	2E	10
X040DSCT	1C		X043RESP	2E	9
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

## \$XPL Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
X044PURQ	14	40	X047AREA	24	
X044RESP	14	9	X047BJQE	28	8
X044SIZE	14	18	X047COND	28	8
X044VERN	14	2	X047DCT	1C	
X044XID	14	2C	X047DSH	28	20
X045CANC	14	80	X047HADR	10	
X045CART	40		X047HDR	28	80
X045CKEY	20		X047IND	28	7
X045CNID	48		X047INV	28	7F
X045COND	14	8	X047JCT	14	
X045DEST	21	80	X047JQE	18	
X045ERAD	50		X047PDDB	20	
X045ERLN	56		X047PLUS	28	10
X045EXTE	14	10	X047RCCS	28	10
X045FLG1	21		X047RESP	28	9
X045GRPN	34		X047SIZE	24	28
X045GRP1	3C		X047TERM	28	80
X045GRP2	3E		X047TRL	28	40
X045IND	14	7	X047VERN	28	2
X045INVF	14	4	X047XID	28	2F
X045INVI	14	2	X049COND	24	8
X045JBID	2C		X049IND	24	7
X045JBNM	24		X049INV	24	1F
X045JESD	14	40	X049JQE	10	
X045JSSP	21	20	X049NDUP	24	20
X045MDAD	4C		X049NOPT	24	40
X045MDLN	54		X049NORM	24	0
X045NOAU	14	8	X049PLUS	24	10
X045NOXT	14	20	X049QGT	14	
X045PCED	14	80	X049RESP	24	9
X045PLUS	14	10	X049SIZE	14	18
X045RC	1C		X049SJOB	24	4
X045REAS	1A		X049SJSE	24	8
X045RESP	14	9	X049SKIP	24	80
X045RSVD	18		X049VERN	24	1
X045SECL	21	40	X049XID	24	31
X045SETR	14	40	X050AREA	1C	
X045SFRB	14		X050AVF	14	10
X045SIZE	56	58	X050BSAF	14	20
X045SSFA	10		X050COND	14	8
X045VERN	14	2	X050DCT	18	
X045XID	14	2D	X050FLG1	21	
X046AREA	28		X050GJOB	14	80
X046BYP	56	40	X050IND	14	7
X046COND	56	8	X050JCLS	38	
X046DCT	14		X050JCT	10	
X046DSH	56	20	X050JECL	14	40
X046HADR	10		X050JQE	14	
X046HDR	56	80	X050NEXT	40	
X046IND	56	7	X050NORM	14	80
X046INV	56	3F	X050OOUTP	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	X0501COND	44	8



Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
X051FLG1	38		X052XID	39	34
X051IND	44	7	X052XSEM	39	40
X051JCT	14		X052XSNC	39	80
X051JOB	1C		X053ACCT	10	
X051JQA	10		X053ACTL	1C	
X051NEWQ	1A		X053AREA	28	
X051NEWT	1B		X053COND	58	8
X051NOCH	44	40	X053FLGX	14	
X051OLDQ	18		X053IND	58	7
X051OLDT	19		X053JCT	20	
X051PLUS	44	10	X053JQE	24	
X051QCNV	39	2	X053JXWR	18	
X051QHRD	39	9	X053KILL	58	20
X051QINP	39	1	X053PLUS	58	10
X051QNUM	39	A	X053RESP	58	9
X051QOUT	39	8	X053SIZE	28	2C
X051QPUR	39	A	X053SKIP	58	40
X051QRCV	39	7	X053VERN	58	1
X051QSET	39	3	X053XID	58	35
X051QSPN	39	5	X053XSEM	58	80
X051QXEQ	39	4	X054AREA	24	
X051QXMT	39	6	X054CARD	10	
X051RBLD	44	80	X054CCMT	4C	2
X051RESP	44	9	X054CMND	2C	20
X051RQUE	44	40	X054COND	2C	8
X051RXEQ	44	80	X054CONT	2C	80
X051SAF	34		X054FLGX	14	
X051SENV	24		X054FLG1	4C	
X051SIZE	39	3C	X054IND	2C	7
X051VERN	44	1	X054JCL	2C	0
X051XID	44	33	X054JCMT	2C	20
X0511IND	38	40	X054JCT	1C	
X052AREA	24		X054JECL	2C	4
X052CARD	10		X054JOBP	2C	40
X052CCMT	4C	2	X054JQE	20	
X052COND	39	8	X054JXWR	18	
X052CONT	39	80	X054KILL	2C	10
X052FLGX	14		X054LAST	4C	1
X052FLG1	4C		X054LOPR	4C	8
X052IND	39	7	X054PLUS	2C	10
X052JCMT	39	20	X054PREJ	2C	1
X052JCT	1C		X054PURG	2C	8
X052JOB	39	8	X054QUOT	4C	4
X052JQE	20		X054RESP	2C	9
X052JXWR	18		X054RJCA	44	
X052KILL	39	10	X054RJCC	48	
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

## \$XPL Cross Reference

Name	Hex Offset	Hex Value
X055RECV	60	80
X055RESP	60	9
X055SIZE	1C	20
X055VERN	60	1
X055XID	60	37
X056AREA	28	
X056BYP	1C	40
X056COND	1C	8
X056DSH	1C	20
X056HADR	10	
X056HDR	1C	80
X056IND	1C	7
X056INV	1C	3F
X056JCT	1C	
X056JOA	24	
X056JOE	28	24
X056JQE	18	
X056PDDB	20	
X056PLUS	1C	10
X056RCCS	1C	10
X056RESP	1C	9
X056R1ST	1C	80
X056SIZE	28	2C
X056TERM	1C	80
X056TRL	1C	40
X056VERN	1C	1
X056XID	1C	38
X057AREA	24	
X057BJQE	28	8
X057COND	28	8
X057DSH	28	20
X057HADR	10	
X057HDR	28	80
X057IND	28	7
X057INV	28	7F
X057JCT	14	
X057JQE	18	
X057PDDB	20	
X057PLUS	28	10
X057RCCS	28	10
X057RESP	28	9
X057SIZE	24	28
X057TERM	28	80
X057TRL	28	40
X057VERN	28	1
X057XID	28	39
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

## \$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	XPWREQ	XCF REQUEST QUEUE
316	(13C)	BITSTRING	1	XPWGFLG1	Group event processing
		.... ..1		XPWGFMTD	"B'00000001" Member found for \$ESYS,SID
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	
XPWGFLG1	13C	
XPWGFMTD	13C	1
XPWNFRQH	140	
XPWNFRQT	144	
XPWNFXIT	148	
XPWPCEWL	160	2C
XPWREQ	138	
XPWSTQE	14C	
XPW2ACTV	13D	80
XPW2RCVY	13D	40
XPW2REC1	13D	20

## \$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)

Comment

-----  
 Main JES2 XCF intermember command request types  
 Mailbox: SYSJESXCF\$CMD  
 Address space name: JES2  
 JESXCF group: \$XCFCGPNM  
 -----

End of Comment

## \$XREQ Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	XREQJOE	"4" Post JOE without clearing JWELs
6	(6)	X'5'	0	XREQXEQ	"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

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
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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	XREQTOKEN	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)

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
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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
- \$DSHORT - Short display command
- \$T - Set command
- \$S - 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

## \$XREQ Map

### Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
140	(8C)	X'90'	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
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



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>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.</p>					
End of Comment					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	SIGNED	4	XREPJOB	Job number
124	(7C)	SIGNED	2	XREP138	Length of text
126	(7E)	CHARACTER	100	XREPMSG	HASP138 text
126	(7E)	X'E2'	0	XREPBLN	"*-XREQ" Total length of request
126	(7E)	X'39'	0	XREPBLW	"(*-XREQ+3)/4" Total length in words
Comment					
<p>JQA set spinnable (XREQINFO = 8)                      Update JQA by turning on JQA1SPIN flag.</p>					
End of Comment					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	SIGNED	4	XSPNJOB	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					
<p>-----                      End of definitions for Mailbox name SYSJESXCF\$CMD                      -----                      -----                      End of definitions for Mailbox name SYSJESXCF\$CMD                      -----</p>					
<p>Perform PROTSRB.                      Mailbox name = SYSJES\$XSYSEBUF                      This request will pass as input the PROTSRB parm                      list and return as output a data buffer.</p>					
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
142	(8E)	X'8F'	0	XREXBFLN	"*-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					
<p>Request initiator data (XREQINFO = XREQITDT)                      Mailbox name = SYSJES\$XSYSEBUF                      This request will pass as input appropriate                      filters and flags and get back initiator data.</p>					
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)

## \$XREQ Map

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

Comment

Migrator switch (XREQINFO = XREQMGSW)  
 Mailbox name = SYSJES\$XSYSBUF  
 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.)

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

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\$<VOLSER>.

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	XREPHLEN	"*-XREQ" Total length of request

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
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.					
End of Comment					
112	(70)	SIGNED	4	(2)	Reserved for future use
120	(78)	BITSTRING	1	XREPERCE	Percent complete
121	(79)	CHARACTER	6	XRERSER	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
		1... ..		XRTLBMWR	"B'10000000" TLBM has been written to target dataset
133	(85)	BITSTRING	1	XRERSFLG	Status Flag
		1... ..		XRERNCAN	"B'10000000" Migration not cancellable
134	(86)	BITSTRING	2		Reserved for future use
134	(86)	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	XRETCAN (0)	Request chain
120	(78)	ADDRESS	4	XRETCAN	off \$DTEMIGR
124	(7C)	ADDRESS	4	XRETCBK	(managed by \$FIFOENQ)
128	(80)	ADDRESS	4	XRETCAN2	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

## \$XREQ Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
152	(98)	SIGNED	4	XRETDATA (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
Comment					
----- End of variable sections -----					
End of Comment					

## \$XREQ Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
XREADORM	8C		XREP138	7C	
XREAHOLD	88		XREQ	0	
XREASID	8C		XREQBASE	70	70
XREBTOFF	70	40	XREQCNCL	6	3
XREDSKY	88		XREQDATA	70	
XREEXTNO	82		XREQDATO	18	
XREFLAG	70		XREQEND	6	5
XREGTBF	78		XREQFRC	C	
XREIBFLN	80	D0	XREQID	0	E7D9C5D8
XREICLAS	78		XREQINFO	6	
XREIFLGR	73		XREQIOLN	74	7C
XREIFLG1	71		XREQIOPE	6	1
XREIPRCF	70		XREQITDT	6	2
XREIREST	74		XREQJOE	6	3
XREISTAT	72		XREQJQSP	6	8
XREISTKN	80		XREQLEN	1C	
XREJFLG1	84		XREQMGSW	6	3
XREJKEY	84		XREQMSG	5	D9
XREJOECR	7C		XREQPHA1	6	1
XREJOELN	85	88	XREQPHA2	6	2
XREJOELW	85	22	XREQPJOE	6	4
XREJOEOF	78		XREQPXEQ	6	5
XREJOEPR	80		XREQRESP	5	C1
XREJ1CRT	84	20	XREQRLOG	6	6
XREJ1KPJ	84	C0	XREQSCAN	6	1
XREJ1PST	84	80	XREQSPIN	6	7
XREMELEN	74	7C	XREQSTAT	6	2
XREMEMBN	8E		XREQSTAU	6	4
XREMEMBR	70		XREQTOKN	8	
XREOVRMP	70	80	XREQTYPE	5	
XREPBLN	7E	E2	XREQVER	4	
XREPBLW	7E	39	XREQVERN	4	1
XREPERCE	78		XREQXBUF	6	1
XREPHLEN	84	85	XRERBLN	80	84
XREPJOBN	78		XRERBLW	80	21
XREPMSG	7E		XRERDATA	80	

Name	Hex Offset	Hex Value
XRERDVER	78	
XRERFLGR	7A	
XRERLCHN	80	
XRERLEN	86	88
XRERLMVS	78	
XRERNCAN	85	80
XREROINJ	70	
XREROINW	74	
XRERREST	7C	
XRERSFLG	85	
XRERSER	79	
XRERTNO	7F	
XRESCADA	78	
XRESCARC	70	
XRESCAST	78	
XRESPAD	7C	
XRESRBP	78	
XRESTLEN	8C	90
XRESTNAM	78	
XRESTRT	74	
XRESTTIM	80	
XRETTCHAN	78	
XRETTCHK	7C	
XRETTCHFW	78	
XRETTCHN2	80	
XRETTDATA	98	
XRETTIOTY	74	
XRETTLBM	78	
XRETTLBMR	80	
XRETTREAD	74	1
XRETTLEN	90	98
XRETTOKN	88	
XRETTTRAC	70	
XRETTWRIT	74	2
XRETTVLSR	7C	
XRETTBFLN	78	80
XRETTDASI	70	
XRETTMGID	74	
XRETTBFLN	8E	8F
XRETTDATA	78	
XRETTDLEN	74	
XRETTSQLN	70	78
XRETTSQLW	70	1E
XRETTMIGTR	83	
XRETTLBM	84	
XRETTLBMWR	84	80
XRETTNLLN	78	7C
XRETTNLLW	78	1F
XRETTNJOB	78	

## \$XREQ Cross Reference

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## \$XRQ Programming Interface information

Programming Interface information

\$XRQ

End of Programming Interface information

## \$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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