

z/OS



JES2 Data Areas, Volume 3 (\$PADDR - \$XRQ)

z/OS



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Note

Before using this information and the product it supports, be sure to read the general information under Appendix A, "Notices" on page 483.

Second Edition, October 2001

This is a major revision of GA22-7530-00.

This edition applies to Version 1 Release 2 of z/OS (5694-001) and to all subsequent releases and modifications until otherwise indicated in new editions.

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About This Book

This book provides graphic presentations of many data areas used by the MVS operating system and by application programs. This book provides the data areas that:

- Are used by two or more components
- Are programming interfaces
- Are needed for debugging or diagnosis

Who Should Use This Book

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

How To Use This Book

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

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

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

<i>z/OS JES2 Data Areas, Vol 1 \$ALINDEX-\$EVT</i>	GA22-7528
<i>z/OS JES2 Data Areas, Vol 2 \$FCLWORK-\$OUTWORK</i>	GA22-7529
<i>z/OS JES2 Data Areas, Vol 3 \$PADDR-\$XRQ</i>	GA22-7530

The Header

The header includes some or all of the following:

Common Name:	The descriptive name of the data area.
Macro ID:	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.
DSECT Name:	Name of the dummy control section (DSECT) created by the mapping macro.
Owning Component:	Component name and component identifier in parentheses.
Eye-Catcher ID:	Character string identifier of the eye-catcher (sometimes called the control block id) within the mapping macro. The offset and length of the eye-catcher are also included.
Storage Attributes:	The storage attributes of the data area, including the following: <ul style="list-style-type: none">Main Storage: Central storage attributes of the data area.Virtual Storage: Virtual storage attributes of the data area.Auxiliary Storage: Spool storage attributes of the data area.Subpool and Key: Subpool is the area of virtual storage that contains the data area. Key is the storage protect key for the storage represented by the data area.
Size:	The size of the data area in decimal bytes.
Created by:	Module, macro, or component whose use creates the data area.
Pointed to by:	Registers or data area fields that contain the address of the data area.
Serialization:	Method used to ensure that one user does not update a data area that is being updated or used by another user. The most common methods used for serialization are: <ul style="list-style-type: none">• Lock or locks• ENQ and DEQ macros• Compare and Swap (CS) instruction• Disablement, which is disabling interruptions by setting bits in the program status word (PSW) of the program using the data area
Function:	Brief description of the use of the data area.

Data Area Map

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

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

Offsets					
Dec	Hex	Type	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
FIXED	Arithmetic signed or unsigned 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 25 fields, Cross Reference shows the following:

Name	The name of the field, bit, or mask.
Hex Offset	The hexadecimal offset of the field into the data area. For bits, the hexadecimal offset of the field containing the bit.
Hex Value	Hexadecimal values are shown only for bits. The hexadecimal value shown implies the position of the bit in the field containing the bit.

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

Name	Hex Offset	Hex Value
TCBACTIV	F0	80

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

240	(F0)	FIXED	4	ANYWORD	DISPATCHER INTERSECT CONTROL WORD
240	(F0)	BITSTRING	1	ANYBYTE	FLAG BYTE (MDC323)
		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.

Summary of Changes

| **Summary of Changes** | **for GA22-7530-01 z/OS Version 1 Release 2**

| The book contains information previously presented in GA22-7530-00, which supports z/OS Version 1 Release 1.

| **New Information**

- | • \$PAD
- | • \$PARMWRK
- | • \$REQJID

This book contains terminology, maintenance, and editorial changes. Technical changes or additions to the text and illustrations are indicated by a vertical line to the left of the change.

You may notice changes in the style and structure of some content in this book--for example, headings that use uppercase for the first letter of initial words only, and procedures that have a different look and format. The changes are ongoing improvements to the consistency and retrievability of information in our books.

Summary of Changes **for GA22-7530-00** **z/OS Version 1 Release 1**

The book contains information also presented in OS/390 Version 2 Release 10.

JES2 Data Areas - Volume 3 (\$PAD - \$XRQ)

\$PADDR Heading Information

Common Name: Private Storage Routine Address Table/DSECT
Macro ID: \$PADDR
DSECT Name: PADDR
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'PADR'
 Offset: PADDRID-PADDR
 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 PADDRLEN

Created by: The \$PADDR is created by assembly of the HASPNUC module in the HASJES20 load module.

Pointed to by: \$PADDR field of the \$HCT data area

Serialization: Read only, except for JES2 initialization processing for PC routines

Function: The PADDR contains the addresses of all JES2 private storage service routines to which access is required from multiple assembly modules or installation exits.

This table may be used by \$CALL to locate routines residing in private storage in the JES2 address space. \$CALL uses this table to find either the address or PC number for the called routine.

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

\$PADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PADDR	JES2 private storage routine address table DSECT
0	(0)	CHARACTER	4	PADDRID	PADDR TABLE EYECATCHER
4	(4)	ADDRESS	1	PADDRV	VERSION NUMBER
4	(4)	X'6'	0	PADDRVN	"6" VERSION NUMBER
5	(5)	BITSTRING	3		RESERVED FOR FUTURE USE
Comment					
Module HASCOFST entries, listed alphabetically (for the copy of HASCOFST that is within HASJES20)					
End of Comment					
8	(8)	ADDRESS	4	PADDR@OCOOFST	"V(OCOOFST)" Offset table for O C O code (data only, not \$CALLable) O C O code cannot use this PADDR field, as the PADDR is not frozen.
Comment					
Entry addresses for \$EXTP services (R14 is used for service options,)					
End of Comment					

\$PADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
12	(C)	ADDRESS	4	P@HASPBSCA	"V(HASPBSCA)" Entry to BSC \$EXTP routines
16	(10)	ADDRESS	4	P@HASPROUT	"V(HASPROUT)" Entry to NJE job route srv.
20	(14)	ADDRESS	4	P@HASPSNAA	"V(HASPSNAA)" Entry to SNA \$EXTP routines
24	(18)	ADDRESS	4	P@HASPXFRA	"V(HASPXFRA)" Entry to XFR \$EXTP routines
Comment					
Entry addresses for Line manager scan routines					
End of Comment					
28	(1C)	ADDRESS	4	P@HASPBPPO	"V(HASPBPPO)" BSC Buffer channel end
32	(20)	ADDRESS	4	P@HASPBACT	"V(HASPBACT)" BSC Active line scan
36	(24)	ADDRESS	4	P@HASPBUPT	"V(HASPBUPT)" BSC Inactive line scan
40	(28)	ADDRESS	4	P@HASPBSLN	"V(HASPBSLN)" BSC Secondary started line scan for SWEL processing
44	(2C)	ADDRESS	4	P@HASPSPRO	"V(HASPSPRO)" SNA RPL Completion
48	(30)	ADDRESS	4	P@HASPSLOG	"V(HASPSLOG)" SNA Active logon scan
52	(34)	ADDRESS	4	P@HASPSLNE	"V(HASPSLNE)" SNA Active line scan
56	(38)	ADDRESS	4	P@HASPSIDL	"V(HASPSIDL)" SNA Idle line scan
60	(3C)	ADDRESS	4	P@HASPSUNT	"V(HASPSUNT)" SNA Inactive line scan
64	(40)	ADDRESS	4	P@HASPSACB	"V(HASPSACB)" SNA ACB completion scan
68	(44)	ADDRESS	4	P@HASPSICE	"V(HASPSICE)" SNA ICE scan
72	(48)	ADDRESS	4	P@HASPSRAT	"V(HASPSRAT)" SNA RAT Autologon scan
76	(4C)	ADDRESS	4	P@HASPSAL	"V(HASPSAL)" Sna Secondary started line scan for SWEL processing
Comment					
Module HASPARMO routines listed alphabetically					
End of Comment					
80	(50)	ADDRESS	4	P@ARODREG	"V(ARODREG)" Deregister job
84	(54)	ADDRESS	4	P@AROQRYA	"V(AROQRYA)" Query registration
Comment					
Module HASPCFAL routines listed alphabetically					
End of Comment					
88	(58)	ADDRESS	4	P@CFALOC	"V(CFALOC)" CF Allocate a structure
Comment					
Module HASPCFBF routines listed alphabetically					
End of Comment					
92	(5C)	ADDRESS	4	P@CFBLDLST	"V(CFBLDLST)" CF Build list for writing
Comment					
Module HASPCFDE routines listed alphabetically					
End of Comment					
96	(60)	ADDRESS	4	P@CFDELETE	"V(CFDELETE)" CF Delete all elements
Comment					
Module HASPCFE routines listed alphabetically					
End of Comment					
100	(64)	ADDRESS	4	P@CFCOMP	"V(CFCOMP)" CF Complete Exit
104	(68)	ADDRESS	4	P@CFEVEN	"V(CFEVENT)" CF Event Exit
108	(6C)	ADDRESS	4	P@CFNOTIFY	"V(CFNOTIFY)" CF Notify Exit

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Module HASPCFFC routines listed alphabetically					
End of Comment					
112	(70)	ADDRESS	4	P@CFFCOMP	"V(CFFCOMP)" CF Force completion
Comment					
Module HASPCFLE routines listed alphabetically					
End of Comment					
116	(74)	ADDRESS	4	P@CFRDLEC	"V(CFRDLEC)" CF Read the LECs
Comment					
Module HASPCFMT routines listed alphabetically					
End of Comment					
120	(78)	ADDRESS	4	P@CFFORMAT	"V(CFFORMAT)" CF Format
Comment					
Module HASPCFQL routines listed alphabetically					
End of Comment					
124	(7C)	ADDRESS	4	P@CFQLOCK	"V(CFQLOCK)" CF Query Lock holder
Comment					
Module HASPCFQU routines listed alphabetically					
End of Comment					
128	(80)	ADDRESS	4	P@CFQUERY	"V(CFQUERY)" CF Query connections to str
Comment					
Module HASPCFRD routines listed alphabetically					
End of Comment					
132	(84)	ADDRESS	4	P@CFRDATA	"V(CFRDATA)" CF Read data
136	(88)	ADDRESS	4	P@CFRDONE	"V(CFRDONE)" Read one track 1 record
Comment					
Module HASPCFRE routines listed alphabetically					
End of Comment					
140	(8C)	ADDRESS	4	P@CFREL	"V(CFREL)" CF Release structure lock
144	(90)	ADDRESS	4	P@\$CFTRACE	"V(\$CFTRACE)" CF Trace routine
Comment					
Module HASPCFRL routines listed alphabetically					
End of Comment					
148	(94)	ADDRESS	4	P@CFRDLIST	"V(CFRDLIST)" CF Read a list of elements
Comment					
Module HASPCFRS routines listed alphabetically					
End of Comment					

\$PADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
152	(98)	ADDRESS	4	P@CFRESV	"V(CFRESV)" CF Obtain structure lock
Comment					
Module HASPCFR2 routines listed alphabetically					
End of Comment					
156	(9C)	ADDRESS	4	P@CFREAD2	"V(CFREAD2)" CF Read2
160	(A0)	ADDRESS	4	P@CFPURGE	"V(CFPURGE)" CF Purge processing
Comment					
Module HASPCFSI routines listed alphabetically					
End of Comment					
164	(A4)	ADDRESS	4	P@CFSTRTIO	"V(CFSTRTIO)" CF Start I/O
Comment					
Module HASPCFT1 routines listed alphabetically					
End of Comment					
168	(A8)	ADDRESS	4	P@CFTRK1IO	"V(CFTRK1IO)" CF Track1 I/O
Comment					
Module HASPCFUN routines listed alphabetically					
End of Comment					
172	(AC)	ADDRESS	4	P@CFUNAL	"V(CFUNAL)" CF Unallocate a structure
Comment					
Module HASPCFWP routines listed alphabetically					
End of Comment					
176	(B0)	ADDRESS	4	P@CFWRINPL	"V(CFWRINPL)" CF Write in place
Comment					
Module HASPCFWR routines listed alphabetically					
End of Comment					
180	(B4)	ADDRESS	4	P@CFWRITE	"V(CFWRITE)" CF Write
Comment					
MODULE HASPCKDS ROUTINES LISTED ALPHABETICALLY					
End of Comment					
184	(B8)	ADDRESS	4	P@CKBINIT	"V(CKBINIT)" VERIFY SIZE CB'S AND INIT CKB
188	(BC)	ADDRESS	4	P@CKPALCLN	"V(CKPALCLN)" CHECKPOINT ALLOCATION CLEANUP
192	(C0)	ADDRESS	4	P@CKPTALOC	"V(CKPTALOC)" CHECKPOINT DYNAMIC ALLOCATE RTN
196	(C4)	ADDRESS	4	P@CKPTUNAL	"V(CKPTUNAL)" CHECKPOINT DATASET UNALLOCATE
200	(C8)	ADDRESS	4	P@CKPTVSIZ	"V(CKPTVSIZ)" Verify new ckpt size
204	(CC)	ADDRESS	4	P@CKPTXPND	"V(CKPTXPND)" Expand size of the CKPT
208	(D0)	ADDRESS	4	P@KDIALOG	"V(KDIALOG)" CKPT RECOVERY DIALOG SERVICE
212	(D4)	ADDRESS	4	P@KNOP	"V(KNOP)" ISSUE A NOP CCW TO A CKPT
216	(D8)	ADDRESS	4	P@KRELEASE	"V(KRELEASE)" DEQ (RELEASE) A CKPT DS
220	(DC)	ADDRESS	4	P@KRESERVE	"V(KRESERVE)" RESERVE A CKPT DATA SET

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MODULE HASPCKPT ROUTINES LISTED ALPHABETICALLY					
End of Comment					
224	(E0)	ADDRESS	4	P@\$BERTFIX	"V(\$BERTFIX)" BERT error detect/correct
228	(E4)	ADDRESS	4	P@\$CKPTQUE	"V(\$CKPTQUE)" Queue work to CKPT
232	(E8)	ADDRESS	4	P@\$DOGBERT	"V(\$DOGBERT)" BERT processing routine
236	(EC)	ADDRESS	4	P@BERTFMT	"V(BERTFMT)" Format the BERT CTENT
240	(F0)	ADDRESS	4	P@BERTMAP	"V(BERTMAP)" Process/Build BERT map
244	(F4)	ADDRESS	4	P@KBUPDJQE	"V(KBUPDJQE)" Update JQE fields for BLOB
248	(F8)	ADDRESS	4	P@KBUPDSUB	"V(KBUPDSUB)" Update JQETGNBR JQE routine
252	(FC)	ADDRESS	4	P@KCPYMSTR	"V(KCPYMSTR)" Copy base info to MASTER or MASTERI
256	(100)	ADDRESS	4	P@KFORMAT	"V(KFORMAT)" REFORMAT A CHECKPOINT DATASET
260	(104)	ADDRESS	4	P@KGETCHLG	"V(KGETCHLG)" Adjust change log size
264	(108)	ADDRESS	4	P@KIOERROR	"V(KIOERROR)" ISSUE A CKPT I/O ERROR MSG
268	(10C)	ADDRESS	4	P@KPRIMW	"V(KPRIMW)" Perform a primary write
272	(110)	ADDRESS	4	P@KPROTECT	"V(KPROTECT)" Page (un)protect the CKPT
276	(114)	ADDRESS	4	P@KREAD2	"V(KREAD2)" PERFORM READ2 OF CKPT DATA SET
280	(118)	ADDRESS	4	P@KSETMSTR	"V(KSETMSTR)" Set master record pointers
284	(11C)	ADDRESS	4	P@KTRK1IO	"V(KTRK1IO)" PERFORM I/O TO TRK1 OF CKPT DS
288	(120)	ADDRESS	4	P@QWLMSVDF	"V(QWLMSVDF)" Get WLM service definition

Comment

Module HASPCKRR routines listed alphabetically

End of Comment					
292	(124)	ADDRESS	4	P@CKRRDONE	"V(CKRRDONE)" Complete MAS CKPT reconfig
296	(128)	ADDRESS	4	P@CKRRINIT	"V(CKRRINIT)" Initialize and create \$CKM
300	(12C)	ADDRESS	4	P@CKRRSTRT	"V(CKRRSTRT)" Start-up MAS CKPT reconfig
304	(130)	ADDRESS	4	P@CKRRSYNC	"V(CKRRSYNC)" Synchronize MAS reconfig
308	(134)	ADDRESS	4		Reserved for HASPCKRR use
312	(138)	ADDRESS	4		Reserved for HASPCKRR use
316	(13C)	ADDRESS	4		Reserved for HASPCKRR use
320	(140)	ADDRESS	4		Reserved for HASPCKRR use

Comment

Module HASPCNVS routines listed alphabetically

End of Comment					
324	(144)	ADDRESS	4	P@JESLOGC	"V(JESLOGC)" JESLOG parameter conversion
328	(148)	ADDRESS	4	P@PROCALCS	"V(PROCALCS)" Subtask PROCLIB allocation
332	(14C)	ADDRESS	4	P@XINTKEY	"V(XINTKEY)" Locate internal text string
336	(150)	ADDRESS	4	P@XJDTKEY	"V(XJDTKEY)" Locate internal text string (JDT keyword)

Comment

Module HASPCNVT routines listed alphabetically

End of Comment					
340	(154)	ADDRESS	4	P@PROCALOC	"V(PROCALOC)" Allocate PROCLIB data sets

Comment

MODULE HASPCOMM ROUTINES LISTED ALPHABETICALLY

End of Comment					
344	(158)	ADDRESS	4	P@\$JCAN	"V(\$JCAN)" Job cancel routine
348	(15C)	ADDRESS	4	P@CFPARSE	"V(CFPARSE)" Move and parse command
352	(160)	ADDRESS	4	P@COFCVE	"V(COFCVE)" ADDR CONVERT TO EBCDIC HALFWORD ROUTINE

\$PADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
356	(164)	ADDRESS	4	P@COFEDTR	"V(COFEDTR)" ADDR CONVERT TO EBCDIC FULLWORD ROUTINE
360	(168)	ADDRESS	4	P@COFJMSG	"V(COFJMSG)" ADDR JOB INFORMATION MESSAGE ROUTINE
364	(16C)	ADDRESS	4	P@COFRTC	"V(COFRTC)" ADDR CONVERT TO EBCDIC ROUTE CODE ROUTINE
368	(170)	ADDRESS	4	P@COMFRELK	"V(COMFRELK)" Free command lock
372	(174)	ADDRESS	4	P@CSCANDSP	"V(CSCANDSP)" HASPCOMM \$SCAN DISPLAY ROUTINE, USABLE BY \$SCANS FROM EXIT 5
376	(178)	ADDRESS	4	P@CSMICMD	"V(CSMICMD)" HASPCOMM Single member image routine
380	(17C)	ADDRESS	4	P@CWTO	"V(CWTO)" ADDR WRITE TO OPERATOR RTN
384	(180)	ADDRESS	4	P@CWTOT	"V(CWTOT)" ADDR WRITE TO OPERATOR ROUTINE (TRUNC)

Comment

Module HASPCON routines listed alphabetically

End of Comment

388	(184)	ADDRESS	4	P@\$DOM	"V(\$DOM)" HASP DOM routine
392	(188)	ADDRESS	4	P@\$FRECMB	"V(\$FRECMB)" Free CMB routine
396	(18C)	ADDRESS	4	P@\$GETCMBR	"V(\$GETCMBR)" Get CMB routine
400	(190)	ADDRESS	4	P@\$WTO	"V(\$WTO)" \$WTO routine
404	(194)	ADDRESS	4	P@\$WTOC	"V(\$WTOC)" \$WTO with CMB routine
408	(198)	ADDRESS	4	P@HASPWQUE	"V(HASPWQUE)" Addr of CMB queuing routine for callers that cannot \$WAIT
412	(19C)	ADDRESS	4	P@HASPWQUW	"V(HASPWQUW)" Addr of CMB queuing routine for callers that can tolerate a \$WAIT

Comment

Module HASPCSV routines, listed alphabetically

End of Comment

416	(1A0)	ADDRESS	4	P@\$MODCHK	"V(\$MODCHK)" Check/resolve-from modules
420	(1A4)	ADDRESS	4	P@\$MODELET	"V(\$MODELET)" Delete a load module
424	(1A8)	ADDRESS	4	P@\$MODLOAD	"V(\$MODLOAD)" Load a load module
428	(1AC)	ADDRESS	4	P@LOCLMOD	"V(LOCLMOD)" Locate load module by addr
432	(1B0)	ADDRESS	4	P@LOCMODMP	"V(LOCMODMP)" Locate MODMAP entry by addr

Comment

MODULE HASPDYN ROUTINES LISTED ALPHABETICALLY -
BASIC CONTROL BLOCK ADDITION/DELETION SERVICES

End of Comment

436	(1B4)	ADDRESS	4	P@\$DCBDYN	"V(\$DCBDYN)" DYNAMIC DCB ATTACH/DETACH SERVICE ROUTINE ADDRESS
440	(1B8)	ADDRESS	4	P@\$DCTDYN	"V(\$DCTDYN)" DYNAMIC DCT ATTACH/DETACH SERVICE ROUTINE ADDRESS
444	(1BC)	ADDRESS	4	P@\$DESTDYN	"V(\$DESTDYN)" DEST (RDT) DYNAMIC BUILD RTN
448	(1C0)	ADDRESS	4	P@\$DTEDYNA	"V(\$DTEDYNA)" \$DTEDYN ATTACH ROUTINE ADDRESS
452	(1C4)	ADDRESS	4	P@\$DTEDYND	"V(\$DTEDYND)" \$DTEDYN DETACH ROUTINE ADDRESS
456	(1C8)	ADDRESS	4	P@\$PCEDYDC	"V(\$PCEDYDC)" DYNAMIC PCE ATTACH/DETACH SERVICE FOR A DCT CHAIN
460	(1CC)	ADDRESS	4	P@\$PCEDYN	"V(\$PCEDYN)" DYNAMIC PCE ATTACH/DETACH SERVICE ROUTINE ADDRESS
464	(1D0)	ADDRESS	4	P@PRTDFLT	"V(PRTDFLT)" Printer DCT default routine

Comment

MODULE HASPEVTL ROUTINES LISTED ALPHABETICALLY

End of Comment

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
468	(1D4)	ADDRESS	4	P@\$ROLL	"V(\$ROLL)" Entry to create trace entry
472	(1D8)	ADDRESS	4	P@TRCDUMP	"V(TRCDUMP)" Entry to TRCDUMP routine
476	(1DC)	ADDRESS	4	P@TRCPUT	"V(TRCPUT)" Entry to TRCPUT routine
480	(1E0)	ADDRESS	4	P@TRGETTB	"V(TRGETTB)" OBTAIN MORE ECSA TRACE TABLES

Comment

MODULE HASPFSSP ROUTINES LISTED ALPHABETICALLY

End of Comment

484	(1E4)	ADDRESS	4	P@DYNFSS	"V(DYNFSS)" DYNAMIC FSSCB FIND/ATTACH INTERNAL SERVICE ROUTINE (HASPFSPP)
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Comment

Entries to HASP Output Process Executive (HASPPOPE)

End of Comment

488	(1E8)	ADDRESS	4	P@OPGROUP	"V(OPGROUP)" Grouping routine
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Comment

ENTRIES TO HASP JOB OUTPUT SERVICES (HASPJOS)

End of Comment

492	(1EC)	ADDRESS	4	P@\$#ADD	"V(\$#ADD)" Entry to JOE add routine
496	(1F0)	ADDRESS	4	P@\$#ALCHK	"V(\$#ALCHK)" Entry to CHK SPOOL Alloc.
500	(1F4)	ADDRESS	4	P@\$#BLD	"V(\$#BLD)" Entry to JOE build routine
504	(1F8)	ADDRESS	4	P@\$#BUSY	"V(\$#BUSY)" Entry to busy bit set rtn
508	(1FC)	ADDRESS	4	P@\$#CAN	"V(\$#CAN)" Entry to JOE cancel routine
512	(200)	ADDRESS	4	P@\$#CHK	"V(\$#CHK)" Entry to CHK I/O routine
516	(204)	ADDRESS	4	P@\$#DISPRO	"V(\$#DISPRO)" Entry to update disposition
520	(208)	ADDRESS	4	P@\$#FORMAT	"V(\$#FORMAT)" Entry to format JOT
524	(20C)	ADDRESS	4	P@\$#GET	"V(\$#GET)" Entry to JOE get routine
528	(210)	ADDRESS	4	P@\$#GTNEWS	"V(\$#GTNEWS)" Entry to GET JESNEWS CB
532	(214)	ADDRESS	4	P@\$#JOTBLD	"V(\$#JOTBLD)" Entry to format the JOT
536	(218)	ADDRESS	4	P@\$#JOTCHK	"V(\$#JOTCHK)" Entry to verify/correct JOT
540	(21C)	ADDRESS	4	P@\$#JWEL	"V(\$#JWEL)" Entry to JWEL services
544	(220)	ADDRESS	4	P@\$#MOD	"V(\$#MOD)" Entry to JOE modify routine
548	(224)	ADDRESS	4	P@\$#NEWS	"V(\$#NEWS)" Entry to create JESNEWS DS
552	(228)	ADDRESS	4	P@\$#POST	"V(\$#POST)" Entry to specific post rtn
556	(22C)	ADDRESS	4	P@\$#PUT	"V(\$#PUT)" Entry to JOE put routine
560	(230)	ADDRESS	4	P@\$#RBDCHK	"V(\$#RBDCHK)" Entry to JOE rebuild/free check routine
564	(234)	ADDRESS	4	P@\$#REM	"V(\$#REM)" Entry to JOE remove routine
568	(238)	ADDRESS	4	P@\$#REP	"V(\$#REP)" Entry to JOE replace rtn
572	(23C)	ADDRESS	4	P@\$#RLNEWS	"V(\$#RLNEWS)" Entry to return JESNEWS CB
576	(240)	ADDRESS	4	P@\$#TJEV	"V(\$#TJEV)" SAPI thread hold
580	(244)	ADDRESS	4	P@\$#ZAPJOE	"V(\$#ZAPJOE)" Entry to ZAPJOB JOE rtn
584	(248)	ADDRESS	4	P@GTSCREEN	"V(GTSCREEN)" Entry to JOE screen subrtn
588	(24C)	ADDRESS	4	P@JOECLUP	"V(JOECLUP)" JOE cleanup
592	(250)	ADDRESS	4	P@JOTVERIF	"V(JOTVERIF)" Entry to JOT verify rtns
596	(254)	ADDRESS	4	P@MNENF58	"V(MNENF58)" Entry to Main tsk ENF58 rtn

Comment

Entries to HASP Job Queue Services (HASPJQS)

End of Comment

600	(258)	ADDRESS	4	P@\$CLASSIF	"V(\$CLASSIF)" Entry to WLM Classification
604	(25C)	ADDRESS	4	P@\$DILBERT	"V(\$DILBERT)" Entry to \$DILBERT service
608	(260)	ADDRESS	4	P@\$DOGJQE	"V(\$DOGJQE)" Entry to artificial JQE srv
612	(264)	ADDRESS	4	P@\$FREJLOK	"V(\$FREJLOK)" Free job lock
616	(268)	ADDRESS	4	P@\$GETJLOK	"V(\$GETJLOK)" Get job lock
620	(26C)	ADDRESS	4	P@\$QADD	"V(\$QADD)" Entry to JQE add routine

\$PADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
624	(270)	ADDRESS	4	P@QBUSY	"V(QBUSY)" Entry to busy bit set rtn
628	(274)	ADDRESS	4	P@QEXTVER	"V(QEXTVER)" Entry to verify JQE ext.
632	(278)	ADDRESS	4	P@QEXTFMT	"V(QEXTFMT)" Entry to format JQE ext.
636	(27C)	ADDRESS	4	P@QFORMAT	"V(QFORMAT)" Entry to format JQEs
640	(280)	ADDRESS	4	P@QGET	"V(QGET)" Entry to JQE get routine
644	(284)	ADDRESS	4	P@QJIX	"V(QJIX)" Entry to JQE JIX routine
648	(288)	ADDRESS	4	P@QLOC	"V(QLOC)" Entry to JQE locate routine
652	(28C)	ADDRESS	4	P@QMOD	"V(QMOD)" Entry to JQE modify routine
656	(290)	ADDRESS	4	P@QPUT	"V(QPUT)" Entry to JQE put routine
660	(294)	ADDRESS	4	P@QRBDCCHK	"V(QRBDCCHK)" Entry to JQE rebuild/free check routine
664	(298)	ADDRESS	4	P@QREBLD	"V(QREBLD)" Entry to job queue rebuild routine
668	(29C)	ADDRESS	4	P@QREM	"V(QREM)" Entry to JQE remove routine
672	(2A0)	ADDRESS	4	P@QVERIF	"V(QVERIF)" Entry to job queue verify routine
676	(2A4)	ADDRESS	4	P@SCHEMSK	"V(SCHEMSK)" Entry to SCHENV processing
680	(2A8)	ADDRESS	4	P@CATHMAX	"V(CATHMAX)" Entry to CATHMAX processing
684	(2AC)	ADDRESS	4	P@JNRNGCNT	"V(JNRNGCNT)" Job number range counting
688	(2B0)	ADDRESS	4	P@JOBQSAMP	"V(JOBQSAMP)" Job queue sampling for WLM
692	(2B4)	ADDRESS	4	P@JQECAT	"V(JQECAT)" JQE/CAT time reconciliation
696	(2B8)	ADDRESS	4	P@QDECHAIN	"V(QDECHAIN)" Entry to JQE dechain rtn
700	(2BC)	ADDRESS	4	P@QJQEVER	"V(QJQEVER)" Entry to JQE address verify routine
704	(2C0)	ADDRESS	4	P@WLMDEQ	"V(WLMDEQ)" Entry to Dequeue JQE from WLM queue
708	(2C4)	ADDRESS	4	P@WLMENQ	"V(WLMENQ)" Entry to Enqueue JQE onto WLM queue
712	(2C8)	ADDRESS	4	P@ZAPJOB	"V(ZAPJOB)" ZAP Job service

Comment

MODULE HASPMISC ROUTINES LISTED ALPHABETICALLY

End of Comment

716	(2CC)	ADDRESS	4	P@\$CLASSI4	"V(\$CLASSI4)" Entry to \$CLASSI4 routine
720	(2D0)	ADDRESS	4	P@HASPNACT	"V(HASPNACT)" Entry to HASPNACT routine
724	(2D4)	ADDRESS	4	P@ENFPOLCY	"V(ENFPOLCY)" Entry to ENF Policy Activation Support

Comment

MODULE HASPMMSG ROUTINES LISTED ALPHABETICALLY

End of Comment

728	(2D8)	ADDRESS	4	P@\$MSGDISR	"V(\$MSGDISR)" Entry to \$MSGDISR routine
732	(2DC)	ADDRESS	4	P@\$MSGSCAN	"V(\$MSGSCAN)" HASPCAN interface for \$BLDMSG
736	(2E0)	ADDRESS	4	P@\$REPLY	"V(\$REPLY)" REPLY PROCESSOR FOR \$BLDMSG

Comment

MODULE HASPNATS ROUTINES LISTED ALPHABETICALLY

End of Comment

740	(2E4)	ADDRESS	4	P#\$NATADD	Nodes Attached Table ADD
744	(2E8)	ADDRESS	4	P@\$NATADD	"V(\$NATADD)" service routine (HASP NATS)
748	(2EC)	ADDRESS	4	P@NADRECV	"V(NADRECV)" \$NATADD recovery routine
752	(2F0)	ADDRESS	4	P#\$NATGET	Nodes Attached Table GET
756	(2F4)	ADDRESS	4	P@\$NATGET	"V(\$NATGET)" service routine (HASP NATS)
760	(2F8)	ADDRESS	4	P@NGTREC	"V(NGTREC)" \$NATGET recovery routine
764	(2FC)	ADDRESS	4	P#\$NATMOD	Nodes Attached Table MODify
768	(300)	ADDRESS	4	P@\$NATMOD	"V(\$NATMOD)" service routine (HASP NATS)
772	(304)	ADDRESS	4	P@NMDRECV	"V(NMDRECV)" \$NATMOD recovery routine
776	(308)	ADDRESS	4	P#\$NATNOT	Nodes Attached Table NOTify
780	(30C)	ADDRESS	4	P@\$NATNOT	"V(\$NATNOT)" service routine (HASP NATS)
784	(310)	ADDRESS	4	P@NNTREC	"V(NNTREC)" \$NATNOT recovery routine
788	(314)	ADDRESS	4	P#\$NATREM	Nodes Attached Table REMove
792	(318)	ADDRESS	4	P@\$NATREM	"V(\$NATREM)" service routine (HASP NATS)
796	(31C)	ADDRESS	4	P@NRMRECV	"V(NRMRECV)" \$NATREM recovery routine
800	(320)	ADDRESS	4	P@\$NATREQ	"V(\$NATREQ)" Requeue NAT to appropriate queue

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
804	(324)	ADDRESS	4	P@NPMVFY	"V(NPMVFY)" Network path manager control block verification service
808	(328)	ADDRESS	4	P@NPVDCTV	"V(NPVDCTV)" Verify DCT storage is OK
812	(32C)	ADDRESS	4		RESERVED FOR FUTURE USE

Comment

MODULE HASPNET ROUTINES LISTED ALPHABETICALLY

End of Comment

816	(330)	ADDRESS	4	P@\$FRENHB	"V(\$FRENHB)" Get a header cell
820	(334)	ADDRESS	4	P@\$GETNHB	"V(\$GETNHB)" Free a header cell
824	(338)	ADDRESS	4	P@NJDCTINT	"V(NJDCTINT)" LINE DCT INITIALIZATION
828	(33C)	ADDRESS	4	P@NJECHECK	"V(NJECHECK)" Check I/O completion
832	(340)	ADDRESS	4	P@NJEHDADD	"V(NJEHDADD)" Add NJE header section
836	(344)	ADDRESS	4	P@NJEHDEXP	"V(NJEHDEXP)" Expand NJE header section
840	(348)	ADDRESS	4	P@NJEHDMAK	"V(NJEHDMAK)" Create NJE header
844	(34C)	ADDRESS	4	P@NJEHRCV	"V(NJEHRCV)" Receive NJE header
848	(350)	ADDRESS	4	P@NJEHDRD	"V(NJEHDRD)" Read NJE header from spool
852	(354)	ADDRESS	4	P@NJEHDREM	"V(NJEHDREM)" Delete NJE header section
856	(358)	ADDRESS	4	P@NJEHDWR	"V(NJEHDWR)" Write NJE header to spool
860	(35C)	ADDRESS	4	P@NJEHDXMT	"V(NJEHDXMT)" Transmit NJE header
864	(360)	ADDRESS	4	P@NJEPUT	"V(NJEPUT)" Write NJE record
868	(364)	ADDRESS	4	P@NJHBUILD	"V(NJHBUILD)" Build job header
872	(368)	ADDRESS	4	P@NJTBUILD	"V(NJTBUILD)" Build job trailer
876	(36C)	ADDRESS	4	P@NSETESS	"V(NSETESS)" Set ESS section of SMF 24/57 record
880	(370)	ADDRESS	4	P@NSJFSPSP	"V(NSJFSPSP)" SWBTU split/splice services
884	(374)	ADDRESS	4	P@NSMFBSIZ	"V(NSMFBSIZ)" Calculate SMF buffer size
888	(378)	ADDRESS	4	P@RNODEBAD	"V(RNODEBAD)" HASPNET - Invalid node msg
892	(37C)	ADDRESS	4		Reserved for future use

Comment

MODULE HASPNPM ROUTINES LISTED ALPHABETICALLY

End of Comment

896	(380)	ADDRESS	4	P@NCOMMREQ	"V(NCOMMREQ)" Set up NAT from NTQs
900	(384)	ADDRESS	4	P@NMAPINIT	"V(NMAPINIT)" Initialize Notify Maps
904	(388)	ADDRESS	4	P@NSETSUBS	"V(NSETSUBS)" Set SUBNET chaining fields in the NIT
908	(38C)	ADDRESS	4		Reserved for future use
912	(390)	ADDRESS	4		Reserved for future use
916	(394)	ADDRESS	4		Reserved for future use

Comment

MODULE HASPNUC ROUTINES LISTED ALPHABETICALLY

End of Comment

920	(398)	ADDRESS	4	P@\$BFRBLD	"V(\$BFRBLD)" Buffer build routine
924	(39C)	ADDRESS	4	P@\$CBIOM	"V(\$CBIOM)" I/O FOR JES2 CONTROL BLOCKS
928	(3A0)	ADDRESS	4	P@\$CHECK	"V(\$CHECK)" CHECK COMPLETION OF A CKPT WRT
932	(3A4)	ADDRESS	4	P@\$CKPT	"V(\$CKPT)" SCHED CKPT FOR AN ALTERED ELMT
936	(3A8)	ADDRESS	4	P@\$DSCLOSE	"V(\$DSCLOSE)" Entry to \$DSCLOSE routine
940	(3AC)	ADDRESS	4	P@\$DSOPEN	"V(\$DSOPEN)" Entry to \$DSOPEN routine
944	(3B0)	ADDRESS	4	P@\$DSPUT	"V(\$DSPUT)" Entry to \$DSPUT routine
948	(3B4)	ADDRESS	4	P@\$SDYN	"V(\$SDYN)" Dynamic allocate/unallocate
952	(3B8)	ADDRESS	4	P@\$DYNLERR	"V(\$DYNLERR)" DYNALOC error routine
956	(3BC)	ADDRESS	4	P@\$EXCP	"V(\$EXCP)" EXCP routine
960	(3C0)	ADDRESS	4	P@\$EXTP	"V(\$EXTP)" RTAM service routines
964	(3C4)	ADDRESS	4	P@\$FREEBFR	"V(\$FREEBFR)" Free a buffer
968	(3C8)	ADDRESS	4	P@\$FRELOK	"V(\$FRELOK)" Free CMS lock
972	(3CC)	ADDRESS	4	P@\$FRESMF	"V(\$FRESMF)" Free an SMF buffer
976	(3D0)	ADDRESS	4	P@\$FREUCBS	"V(\$FREUCBS)" Free storage for UPL
980	(3D4)	ADDRESS	4	P@\$FREUNIT	"V(\$FREUNIT)" HASP unit 'FREE' routine

\$PADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
984	(3D8)	ADDRESS	4	P@\$GETBUFR	"V(\$GETBUFR)" Get a buffer
988	(3DC)	ADDRESS	4	P@\$GETLOK	"V(\$GETLOK)" Get CMS lock
992	(3E0)	ADDRESS	4	P@\$GETSAVE	"V(\$GETSAVE)" Get a \$SAVE area
996	(3E4)	ADDRESS	4	P@\$GETSMF	"V(\$GETSMF)" Get SMF buffer
1000	(3E8)	ADDRESS	4	P@\$GETUCBS	"V(\$GETUCBS)" Obtain UCB address
1004	(3EC)	ADDRESS	4	P@\$GETUNIT	"V(\$GETUNIT)" HASP unit 'GET' routine
1008	(3F0)	ADDRESS	4	P@\$GETWORK	"V(\$GETWORK)" Get a work area
1012	(3F4)	ADDRESS	4	P@\$GFMAIN	"V(\$GFMAIN)" ENTRY TO GET/FREE STG RTN
1016	(3F8)	ADDRESS	4	P@\$IOTCNT	"V(\$IOTCNT)" Entry to daughter count
1020	(3FC)	ADDRESS	4	P@\$JESEFF	"V(\$JESEFF)" JES2 Exit effector
1024	(400)	ADDRESS	4	P@\$PGSRVC	"V(\$PGSRVC)" PAGE SERVICE ROUTINE
1028	(404)	ADDRESS	4	P@\$POST	"V(\$POST)" POST SPECIFIC EVENT ROUTINE
1032	(408)	ADDRESS	4	P@\$QSUSE	"V(\$QSUSE)" Entry to \$QSUSE support
1036	(40C)	ADDRESS	4	P@\$QUESMF	"V(\$QUESMF)" Queue SMF buffer
1040	(410)	ADDRESS	4	P@\$RETSAVE	"V(\$RETSAVE)" Save area free routine
1044	(414)	ADDRESS	4	P@\$RETURN	"V(\$RETURN)" Return a \$SAVE area
1048	(418)	ADDRESS	4	P@\$RETWORK	"V(\$RETWORK)" Return a work area
1052	(41C)	ADDRESS	4	P@\$SEAS	"V(\$SEAS)" ENTRY TO SECURITY AUTH RTN
1056	(420)	ADDRESS	4	P@\$SEASMSG	"V(\$SEASMSG)" ISSUE THE 077 MESSAGE
1060	(424)	ADDRESS	4	P@\$STCK	"V(\$STCK)" HASP store clock routine
1064	(428)	ADDRESS	4	P@\$STCKFMT	"V(\$STCKFMT)" HASP store clock conversion
1068	(42C)	ADDRESS	4	P@\$STIMER	"V(\$STIMER)" HASP set timer routine
1072	(430)	ADDRESS	4	P@\$SUBIT	"V(\$SUBIT)" SUBTASK WORK QUEUING RTN
1076	(434)	ADDRESS	4	P@\$TTIMER	"V(\$TTIMER)" HASP test timer routine
1080	(438)	ADDRESS	4	P@\$WAIT	"V(\$WAIT)" WAIT FOR AN EVENT ROUTINE
1084	(43C)	ADDRESS	4	P@\$XECBKIL	"V(\$XECBKIL)" XECB DE-CHAINING ROUTINE
1088	(440)	ADDRESS	4	P@\$GETEVNTR	"V(\$GETEVNTR)" Get an event record CB
1092	(444)	ADDRESS	4	P@\$GETJOBKY	"V(\$GETJOBKY)" Obtain a jobkey
1096	(448)	ADDRESS	4	P@\$MOD875	"V(\$MOD875)" ISSUE \$HASP875 MESSAGE
1100	(44C)	ADDRESS	4	P@\$SUBDEST	"V(\$SUBDEST)" SUBTASK A \$DESTCHK CALL

Comment

ENTRIES TO HASP SWB MODIFY SUBTASK (HASPODSM)

End of Comment

1104	(450)	ADDRESS	4	P#\$WBMSUB	SWB MODIFY SUBTASK PC NUM
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Comment

Entries to HASP Process Sysout (HASPPSO)

End of Comment

1108	(454)	ADDRESS	4	P@\$TREGROUP	"V(\$TREGROUP)" Regroup PDDB
1112	(458)	ADDRESS	4	P@\$PSOFRELK	"V(\$PSOFRELK)" Free job lock and JOE busy

Comment

MODULE HASPRAS ROUTINES LISTED ALPHABETICALLY

End of Comment

1116	(45C)	ADDRESS	4	P@\$DISTERR	"V(\$DISTERR)" Disastrous error routine
1120	(460)	ADDRESS	4	P@\$ESTACAN	"V(\$ESTACAN)" ENTRY TO \$ESTAE CANCEL RTN
1124	(464)	ADDRESS	4	P@\$ESTAER	"V(\$ESTAER)" ENTRY TO \$ESTAE ESTAB. RTN
1128	(468)	ADDRESS	4	P@\$ESTAREP	"V(\$ESTAREP)" ENTRY TO \$ESTAE REPLACE RTN
1132	(46C)	ADDRESS	4	P@\$IOERROR	"V(\$IOERROR)" I/O error logging routine
1136	(470)	ADDRESS	4	P@\$SDUMP	"V(\$SDUMP)" SVC dump routine

Comment

MODULE HASPRTAM ROUTINES LISTED ALPHABETICALLY

End of Comment

1140	(474)	ADDRESS	4	P@\$REQBUF	"V(\$HASPRTBUF)" Entry to requeue buffers and request ckpt
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Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1144	(478)	ADDRESS	4	P@\$REQBUFN	"V(HASPRBFN)" Entry to requeue bfrs without requesting ckpt
1148	(47C)	ADDRESS	4	P@LNEAVRJE	"V(LNEAVRJE)" Check if Line avail for RJE
1152	(480)	ADDRESS	4	P@MSAFCHK	"V(MSAFCHK)" SAF CALL FOR LM AND RCP
1156	(484)	ADDRESS	4	P@RMTDVINT	"V(RMTDVINT)" Initialize Rmt Device DCT
1160	(488)	ADDRESS	4	P@RMTDVSET	"V(RMTDVSET)" Setup Rmt Device DCT
1164	(48C)	ADDRESS	4	P@RMTLNECK	"V(RMTLNECK)" Check Rmt Line setting
1168	(490)	ADDRESS	4	P@RMTSETUP	"V(RMTSETUP)" Setup RMT Parameters

Comment

Module HASPSASR Routines listed alphabetically

End of Comment

1172	(494)	ADDRESS	4	P@SAIHOT	"V(SAIHOT)" SAPI Hot Start Processing
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Comment

MODULE HASPSCAN ROUTINES LISTED ALPHABETICALLY

End of Comment

1176	(498)	ADDRESS	4	P@\$SCAN	"V(\$SCAN)" ADDR HASP \$SCAN FACILITY
1180	(49C)	ADDRESS	4	P@\$SCANB	"V(\$SCANB)" ADDR HASP \$SCAN BACKUP ROUTINE
1184	(4A0)	ADDRESS	4	P@\$SCANCOM	"V(\$SCANCOM)" ADDR HASP \$SCAN DE-COMMENT RTN
1188	(4A4)	ADDRESS	4	P@\$SCAND	"V(\$SCAND)" ADDR HASP \$SCAN DISPLAY RTN
1192	(4A8)	ADDRESS	4	P@BACKRETN	"V(BACKRETN)" Return backup SCWAs
1196	(4AC)	ADDRESS	4	P@PREDNAME	"V(PREDNAME)" Addr of display keyword name prescan routine
1200	(4B0)	ADDRESS	4	P@PREFILT	"V(PREFILT)" Pre-Filtering routine
1204	(4B4)	ADDRESS	4	P@RESTORE	"V(RESTORE)" Restore from backup SCWAs
1208	(4B8)	ADDRESS	4	P@SCANDIAG	"V(SCANDIAG)" Diagnostic message routine

Comment

MODULE HASPSERV ROUTINES LISTED ALPHABETICALLY

End of Comment

1212	(4BC)	ADDRESS	4	P@ADDCTQ	"V(ADDCTQ)" Addr Add DCT to Q routine
1216	(4C0)	ADDRESS	4	P@CFJOED	"V(CFJOED)" ADDR JOE DISPLAY ROUTINE
1220	(4C4)	ADDRESS	4	P@IVATE	"V(IVATE)" Addr of \$ACTIVATE/ \$UNACTIVATE routine
1224	(4C8)	ADDRESS	4	P@REMDCTQ	"V(REMDCTQ)" Addr Remove DCT from Q rtn
1228	(4CC)	ADDRESS	4	P@SRVCFSEL	"V(SRVCFSEL)" Addr of \$CFSEL service rtn
1232	(4D0)	ADDRESS	4	P@SRVDCTD	"V(SRVDCTD)" ADDR DEVICE CONTROL TABLE DISPLAY ROUTINE
1236	(4D4)	ADDRESS	4	P@SRVFNDCR	"V(SRVFNDCR)" ADDR OF FIND CRI ROUTINE
1240	(4D8)	ADDRESS	4	P@SRVMOD	"V(SRVMOD)" ADDR MODIFY JOB/SYSOUT CHARS ROUTINE
1244	(4DC)	ADDRESS	4	P@SRVM630	"V(SRVM630)" Addr of routine to format \$HASP630 message
1248	(4E0)	ADDRESS	4	P@SRVOLOC	"V(SRVOLOC)" ADDR LOCATE DAS DATA SET DSECT ROUTINE
1252	(4E4)	ADDRESS	4	P@SRVPREFX	"V(SRVPREFX)" ADDR DEFINE PREFIX TO MCS ROUTINE
1256	(4E8)	ADDRESS	4		Reserved for future use
1260	(4EC)	ADDRESS	4	P@SRVRDIR	"V(SRVRDIR)" ADDR OF ROUTINE TO REDIRECT COMMAND RESPONSES
1264	(4F0)	ADDRESS	4	P@SRVROUT	"V(SRVROUT)" ADDR CONVERT TO BINARY ROUTE CODE ROUTINE
1268	(4F4)	ADDRESS	4	P@SRVSASCN	"V(SRVSASCN)" ADDR SYS AFFINITY SCAN RTN
1272	(4F8)	ADDRESS	4	P@SRVSETUP	"V(SRVSETUP)" ADDR WORK SELECT SET UP RTN
1276	(4FC)	ADDRESS	4	P@SRVWSCAN	"V(SRVWSCAN)" ADDR WORK SELECT SCAN RTN
1280	(500)	ADDRESS	4	P@SUBRRT	"V(SUBRRT)" SUBTASK \$REROUTE ROUTINE
1284	(504)	ADDRESS	4	P@VETIVATE	"V(VETIVATE)" Check ACTIVATE expansion viability
1288	(508)	ADDRESS	4	P@WS2	"V(WS2)" Work selection control block errors
1292	(50C)	ADDRESS	4		RESERVED FOR FUTURE USE
1296	(510)	ADDRESS	4		RESERVED FOR FUTURE USE

\$PADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MODULE HASPSIR ROUTINES LISTED ALPHABETICALLY					
End of Comment					
1300	(514)	ADDRESS	4	P@\$IOTERR	"V(\$IOTERR)" Spin IOT error recovery routine
1304	(518)	ADDRESS	4	P@ISSWTO	"V(ISSWTO)" \$HASP394 Output Lost message routine
Comment					
MODULE HASPSNA ROUTINES LISTED ALPHABETICALLY					
End of Comment					
1308	(51C)	ADDRESS	4	P@APPLDYN	"V(APPLDYN)" DYNAMIC APT LOOKUP/ATTACH SERVICE ROUTINE (HASPSNA)
1312	(520)	ADDRESS	4	P@SNASNET	"V(SNASNET)" START NETWORKING (\$SN) COMMAND EXIT FOR SNA (HASPSNA)
Comment					
MODULE HASPSPIN ROUTINES LISTED ALPHABETICALLY					
End of Comment					
1316	(524)	ADDRESS	4	P@SPCIOT	"V(SPCIOT)" Spin IOT in CSA (LIFO/FIFO) check routine
Comment					
MODULE HASPSPOL ROUTINES LISTED ALPHABETICALLY					
End of Comment					
1320	(528)	ADDRESS	4	P@\$DASfmt	"V(\$DASfmt)" FORMAT new DASes
1324	(52C)	ADDRESS	4	P@DADADDWQ	"V(DADADDWQ)" Add DAS to DAS work queue
1328	(530)	ADDRESS	4	P@DADAVAIL	"V(DADAVAIL)" DAS TG COUNT ROUTINE
1332	(534)	ADDRESS	4	P@DADCKTGM	"V(DADCKTGM)" TGM CKPT ROUTINE
1336	(538)	ADDRESS	4	P@DADCOUNT	"V(DADCOUNT)" FREE TG COUNTING ROUTINE
1340	(53C)	ADDRESS	4	P@DADDEB	"V(DADDEB)" DAS DEB EXT. INIT ROUTINE
1344	(540)	ADDRESS	4	P@DADREMVE	"V(DADREMVE)" REMOVE DAS FROM QUEUES RTN
1348	(544)	ADDRESS	4	P@DADREMwQ	"V(DADREMwQ)" REMOVE DAS FROM WORK Q RTN
1352	(548)	ADDRESS	4	P@DADSPLST	"V(DADSPLST)" RESET SPL CONTROL BLOCK RTN
1356	(54C)	ADDRESS	4	P@DADTGM	"V(DADTGM)" DAS TGM UPDATE ROUTINE
1360	(550)	ADDRESS	4	P@DADTGMSP	"V(DADTGMSP)" Get TGM Space, Last DAS Rtn
1364	(554)	ADDRESS	4	P@DADXTENT	"V(DADXTENT)" DAS EXTENT INIT ROUTINE
1368	(558)	ADDRESS	4	P@SIGIO	"V(SIGIO)" Signature I/O Routine
1372	(55C)	ADDRESS	4	P@SNFQUE	"V(SNFQUE)" Sniffer BLOB Queueing Rtn
Comment					
MODULE HASPSSRV ROUTINES LISTED ALPHABETICALLY					
End of Comment					
1376	(560)	ADDRESS	4	P@\$LOGMSG	"V(\$LOGMSG)" JOBLOG/SYSMSGs ACCESS RTN
1380	(564)	ADDRESS	4	P@\$RROUTE	"V(\$RROUTE)" RROUTE CMD AUTH ROUTINE
1384	(568)	ADDRESS	4	P@JOBVALM	"V(JOBVALM)" Job validation
1388	(56C)	ADDRESS	4	P@NEWSCRE	"V(NEWSCRE)" JESNEWS Dataset creation
1392	(570)	ADDRESS	4	P@PSAFSCAN	"V(PSAFSCAN)" PDDB SCAN AND SAF CALL RTN
1396	(574)	ADDRESS	4	P@RPDBSEC	"V(RPDBSEC)" SYSTEM PDDB INIT ROUTINE
1400	(578)	ADDRESS	4	P@SYSOVFY	"V(SYSOVFY)" SYSOUT VALIDATION ROUTINE
Comment					
Module HASPSTUB routines listed alphabetically					
End of Comment					

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1404	(57C)	ADDRESS	4	P@CFPOST	"V(CFPOST)" \$\$POST checkpoint

Comment

Module HASPTABS routines listed alphabetically

End of Comment

1408	(580)	ADDRESS	4	P@\$GETABLE	"V(\$GETABLE)" HASPTABS - \$GETABLE service
1412	(584)	ADDRESS	4	P@\$PUTABLE	"V(\$PUTABLE)" HASPTABS - \$PUTABLE service
1416	(588)	ADDRESS	4	P@\$RETABLE	"V(\$RETABLE)" HASPTABS - \$RETABLE service

Comment

Module HASPTERM routines listed alphabetically

End of Comment

1420	(58C)	ADDRESS	4	P@HEXINIT	"V(HEXINIT)" Termination for HASPINIT
1424	(590)	ADDRESS	4	P@\$ABEND	"V(\$ABEND)" JES2 Main task recovery rtn
1428	(594)	ADDRESS	4	P@\$HEXIT	"V(\$HEXIT)" Normal JES2 termination
1432	(598)	ADDRESS	4	P@\$PCABEND	"V(\$PCABEND)" JES2 PC recovery routine
1436	(59C)	ADDRESS	4	P@WTORTIMR	"V(WTORTIMR)" Waits for a WTOR with a timer

Comment

Module HASPTRAK routines listed alphabetically

End of Comment

1440	(5A0)	ADDRESS	4	P@\$BLDTGB	"V(\$BLDTGB)" Queue TGBs
1444	(5A4)	ADDRESS	4	P@\$PURGER	"V(\$PURGER)" Release IOT tracks
1448	(5A8)	ADDRESS	4	P@\$TGMSET	"V(\$TGMSET)" Set trackgroup map
1452	(5AC)	ADDRESS	4	P@\$TRACK	"V(\$TRACK)" Get SPOOL space
1456	(5B0)	ADDRESS	4	P@AUDSAF	"V(AUDSAF)" Make SAF Audit call
1460	(5B4)	ADDRESS	4	P@COMLOPER	"V(COMLOPER)" L= PROCESSING
1464	(5B8)	ADDRESS	4	P@PURMASC	"V(PURMASC)" Purge single TGAE

Comment

 Module HASPWARM routines listed alphabetically

End of Comment

1468	(5BC)	ADDRESS	4	P@NQPSOQ	"V(NQPSOQ)" Purge Status/Cancel and PSO queues routine
1472	(5C0)	ADDRESS	4	P@NQRELSE	"V(NQRELSE)" Release duplicate jobs

Comment

Module HASPXCF routines listed alphabetically

End of Comment

1476	(5C4)	ADDRESS	4	P@\$TQLEVEL	"V(\$TQLEVEL)" Test MAS levels (main task)
1480	(5C8)	ADDRESS	4	P@\$TQLVLS	"V(\$TQLVLS)" Test MAS levels (subtask)
1484	(5CC)	ADDRESS	4	P@XCFBCAST	"V(XCFBCAST)" Broadcast an XCF message
1488	(5D0)	ADDRESS	4	P@XCFDHOMO	"V(XCFDHOMO)" Determine Homogeneity
1492	(5D4)	ADDRESS	4	P@XCFJOIN	"V(XCFJOIN)" Member joins XCF group
1496	(5D8)	ADDRESS	4	P@XCFLEAVE	"V(XCFLEAVE)" Member leaves XCF group
1500	(5DC)	ADDRESS	4	P@XCFMAPEV	"V(XCFMAPEV)" Map XCF events to QSE
1504	(5E0)	ADDRESS	4	P@XCFMSTAT	"V(XCFMSTAT)" Query all members status
1508	(5E4)	ADDRESS	4	P@XCFQSTAT	"V(XCFQSTAT)" Query a members status
1512	(5E8)	ADDRESS	4	P@XCFUSTAT	"V(XCFUSTAT)" Update the user status
1516	(5EC)	ADDRESS	4	P@XCFXMAQU	"V(XCFXMAQU)" Update a members XMAQ

\$PADDR Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Module HASPXEQ routines listed alphabetically					
End of Comment					
1520	(5F0)	ADDRESS	4	P@\$CATINIT	"V(\$CATINIT)" Set CATs in BERTs
1524	(5F4)	ADDRESS	4	P@\$CATJCNT	"V(\$CATJCNT)" Reset xeq count in CAT
1528	(5F8)	ADDRESS	4	P@\$CRWSCQ	"V(\$CRWSCQ)" Create WSC
1532	(5FC)	ADDRESS	4	P@\$CREGWLM	"V(\$CREGWLM)" Register WLM class
1536	(600)	ADDRESS	4	P@\$DMNDJOB	"V(\$DMNDJOB)" Demand job start/test
1540	(604)	ADDRESS	4	P@\$DOGCAT	"V(\$DOGCAT)" Deliver or Get CAT
1544	(608)	ADDRESS	4	P@\$DOGWSCQ	"V(\$DOGWSCQ)" Deliver or Get WSC
1548	(60C)	ADDRESS	4	P@\$PLEXREG	"V(\$PLEXREG)" JESplex queue registration
1552	(610)	ADDRESS	4	P@MODESWIT	"V(MODESWIT)" Mode switch for class queue
1556	(614)	ADDRESS	4	P@TIMECLOC	"V(TIMECLOC)" Manage JQE timers
1560	(618)	ADDRESS	4	P@XINSTART	"V(XINSTART)" Start an initiator
1564	(61C)	ADDRESS	4	P@XPOSTXEQ	"V(XPOSTXEQ)" EXEC PCE POST routine
1568	(620)	ADDRESS	4		RESERVED FOR FUTURE USE
1572	(624)	ADDRESS	4		RESERVED FOR FUTURE USE
1576	(628)	ADDRESS	4		RESERVED FOR FUTURE USE
1580	(62C)	ADDRESS	4		RESERVED FOR FUTURE USE
1584	(630)	ADDRESS	4		RESERVED FOR FUTURE USE
1584	(630)	X'34	0	PADDRLEN	** -PADDR" Length of the PADDR table

\$PADDR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
P#\$NATADD	2E4		P@\$CBIOM	39C	
P#\$NATGET	2F0		P@\$CFTRACE	90	
P#\$NATMOD	2FC		P@\$CHECK	3A0	
P#\$NATNOT	308		P@\$CKPT	3A4	
P#\$NATREM	314		P@\$CKPTQUE	E4	
P#\$WBMSUB	450		P@\$CLASSIF	258	
P@\$#ADD	1EC		P@\$CLASSI4	2CC	
P@\$#ALCHK	1F0		P@\$CREGWLM	5FC	
P@\$#BLD	1F4		P@\$CRWSCQ	5F8	
P@\$#BUSY	1F8		P@\$DASMT	528	
P@\$#CAN	1FC		P@\$DCBDYN	1B4	
P@\$#CHK	200		P@\$DCTDYN	1B8	
P@\$#DISPRO	204		P@\$DESTDYN	1BC	
P@\$#FORMAT	208		P@\$DILBERT	25C	
P@\$#GET	20C		P@\$DISTERR	45C	
P@\$#GTNEWS	210		P@\$DMNDJOB	600	
P@\$#JOTBLD	214		P@\$DOGBERT	E8	
P@\$#JOTCHK	218		P@\$DOGCAT	604	
P@\$#JWEL	21C		P@\$DOGJQE	260	
P@\$#MOD	220		P@\$DOGWSCQ	608	
P@\$#NEWS	224		P@\$DOM	184	
P@\$#POST	228		P@\$DSCLOSE	3A8	
P@\$#PUT	22C		P@\$DSOPEN	3AC	
P@\$#RBDCHK	230		P@\$DSPUT	3B0	
P@\$#REM	234		P@\$DTEDYNA	1C0	
P@\$#REP	238		P@\$DTEDYND	1C4	
P@\$#RLNEWS	23C		P@\$DYN	3B4	
P@\$#TJEV	240		P@\$DYNLERR	3B8	
P@\$#ZAPJOE	244		P@\$ESTACAN	460	
P@\$ABEND	590		P@\$ESTAER	464	
P@\$BERTFIX	E0		P@\$ESTAREP	468	
P@\$BFRBLD	398		P@\$EXCP	3BC	
P@\$BLDTGB	5A0		P@\$EXTP	3C0	
P@\$CATINIT	5F0		P@\$FRECMB	188	
P@\$CATJCNT	5F4		P@\$FREEBFR	3C4	

\$PADDR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
P@\$FREJLOK	264		P@\$RETSAVE	410	
P@\$FRELOK	3C8		P@\$RETURN	414	
P@\$FRENHB	330		P@\$NETWORK	418	
P@\$FRESMF	3CC		P@\$ROLL	1D4	
P@\$FREUCBS	3D0		P@\$SCAN	498	
P@\$FREUNIT	3D4		P@\$SCANB	49C	
P@\$GETABLE	580		P@\$SCANCOM	4A0	
P@\$GETBUFR	3D8		P@\$SCAND	4A4	
P@\$GETCMBR	18C		P@\$SCHEMSK	2A4	
P@\$GETJLOK	268		P@\$SDUMP	470	
P@\$GETLOK	3DC		P@\$SEAS	41C	
P@\$GETNHB	334		P@\$SEASMSG	420	
P@\$GETSAVE	3E0		P@\$STCK	424	
P@\$GETSMF	3E4		P@\$STCKFMT	428	
P@\$GETUCBS	3E8		P@\$STIMER	42C	
P@\$GETUNIT	3EC		P@\$SUBIT	430	
P@\$GETWORK	3F0		P@\$TGMSET	5A8	
P@\$GFMAIN	3F4		P@\$TQLEVEL	5C4	
P@\$HEXIT	594		P@\$TQLVLS	5C8	
P@\$IOERROR	46C		P@\$TRACK	5AC	
P@\$IOTCNT	3F8		P@\$TTIMER	434	
P@\$IOTERR	514		P@\$WAIT	438	
P@\$JCAN	158		P@\$WTO	190	
P@\$JESEFF	3FC		P@\$WTOC	194	
P@\$LOGMSG	560		P@\$XECBKIL	43C	
P@\$MODCHK	1A0		P@ADDDCTQ	4BC	
P@\$MODELET	1A4		P@APPLDYN	51C	
P@\$MODLOAD	1A8		P@ARODREG	50	
P@\$MSGDISR	2D8		P@AROQRYA	54	
P@\$MSGSCAN	2DC		P@AUDSAF	5B0	
P@\$NATADD	2E8		P@BACKRETN	4A8	
P@\$NATGET	2F4		P@BERTFMT	EC	
P@\$NATMOD	300		P@BERTMAP	F0	
P@\$NATNOT	30C		P@CATHMAX	2A8	
P@\$NATREM	318		P@CFALOC	58	
P@\$NATREQ	320		P@CFBLDLST	5C	
P@\$PCABEND	598		P@CFCOMP	64	
P@\$PCEDYDC	1C8		P@CFDELETE	60	
P@\$PCEDYN	1CC		P@CFEVEN	68	
P@\$PGSRVC	400		P@CFFCOMP	70	
P@\$PLEXREG	60C		P@CFFORMAT	78	
P@\$POST	404		P@CFJOED	4C0	
P@\$PURGER	5A4		P@CFNOTIFY	6C	
P@\$PUTABLE	584		P@CFPARSE	15C	
P@\$QADD	26C		P@CFPOST	57C	
P@\$QBUSY	270		P@CFPURGE	A0	
P@\$QEXTFMT	278		P@CFQLOCK	7C	
P@\$QEXTVER	274		P@CFQUERY	80	
P@\$QFORMAT	27C		P@CFRDATA	84	
P@\$QGET	280		P@CFRDLEC	74	
P@\$QJIX	284		P@CFRDLIST	94	
P@\$QLOC	288		P@CFRDONE	88	
P@\$QMOD	28C		P@CFREAD2	9C	
P@\$QPUT	290		P@CFREL	8C	
P@\$QRBDCHK	294		P@CFRESV	98	
P@\$QREBLD	298		P@CFSTRTIO	A4	
P@\$QREM	29C		P@CFTRK1IO	A8	
P@\$QSUSE	408		P@CFUNAL	AC	
P@\$QUESMF	40C		P@CFWRINPL	B0	
P@\$QVERIF	2A0		P@CFWRITE	B4	
P@\$REPLY	2E0		P@CKBINIT	B8	
P@\$REQBUF	474		P@CKPALCLN	BC	
P@\$REQBUFN	478		P@CKPTALOC	C0	
P@\$REROUTE	564		P@CKPTUNAL	C4	
P@\$RETABLE	588		P@CKPTVSIZ	C8	

\$PADDR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
P@CKPTXPND	CC		P@KFORMAT	100	
P@CKRRDONE	124		P@KGETCHLG	104	
P@CKRRINIT	128		P@KIOERROR	108	
P@CKRRSTRT	12C		P@KNOP	D4	
P@CKRRSYNC	130		P@KPRIMW	10C	
P@COFCVE	160		P@KPROTECT	110	
P@COFEDTR	164		P@KREAD2	114	
P@COFJMSG	168		P@KRELEASE	D8	
P@COFRTC	16C		P@KRESERVE	DC	
P@COMFRELK	170		P@KSETMSTR	118	
P@COMLOPER	5B4		P@KTRK1IO	11C	
P@CSCANDSP	174		P@LNEAVRJE	47C	
P@CSMICMD	178		P@LOCLMOD	1AC	
P@CWTO	17C		P@LOCMODMP	1B0	
P@CWTOT	180		P@MNENF58	254	
P@DADADDWQ	52C		P@MODESWIT	610	
P@DADAVAIL	530		P@MOD875	448	
P@DADCKTGM	534		P@MSAFCHK	480	
P@DADCOUNT	538		P@NADRECV	2EC	
P@DADDEB	53C		P@NCOMMREQ	380	
P@DADREMVE	540		P@NEWSCRE	56C	
P@DADREMWO	544		P@NGTREC	2F8	
P@DADSPLST	548		P@NJDCINT	338	
P@DADTGM	54C		P@NJEHECK	33C	
P@DADTGMSP	550		P@NJEHDADD	340	
P@DADXTENT	554		P@NJEHDEXP	344	
P@DYNFSS	1E4		P@NJEHDMAX	348	
P@ENFPOLCY	2D4		P@NJEHDRCV	34C	
P@GETEVNTR	440		P@NJEHHRD	350	
P@GETJOBKY	444		P@NJEHDREM	354	
P@GTSCREEN	248		P@NJEHDWR	358	
P@HASPBACT	20		P@NJEHDXMT	35C	
P@HASPBPPO	1C		P@NJEPUT	360	
P@HASPBSCA	C		P@NJHBUILD	364	
P@HASPBSLN	28		P@NJTBUILD	368	
P@HASPBUPT	24		P@NMAPINIT	384	
P@HASPNACT	2D0		P@NMDRECV	304	
P@HASPROUT	10		P@NNTREC	310	
P@HASPSACB	40		P@NPMVFY	324	
P@HASPSICE	44		P@NPVDCTV	328	
P@HASPSIDL	38		P@NQPSOQ	5BC	
P@HASPSLNE	34		P@NQRELSE	5C0	
P@HASPSLOG	30		P@NRMRECV	31C	
P@HASPSNAA	14		P@NSETESS	36C	
P@HASPSPRO	2C		P@NSETSUBS	388	
P@HASPSRAT	48		P@NSJFSPSP	370	
P@HASPSSAL	4C		P@NSMFBSIZ	374	
P@HASPSUNT	3C		P@OPGROUP	1E8	
P@HASPWQUE	198		P@PREDNAME	4AC	
P@HASPWQUW	19C		P@PREFILT	4B0	
P@HASPXFRA	18		P@PROCALCS	148	
P@HEXTINIT	58C		P@PROCALOC	154	
P@ISSWTO	518		P@PRTDFLT	1D0	
P@IVATE	4C4		P@PSAFSCAN	570	
P@JESLOGC	144		P@PSOFRELK	458	
P@JNRNGCNT	2AC		P@PURMASC	5B8	
P@JOBQSAMP	2B0		P@QDECHAIN	2B8	
P@JOBVALM	568		P@QJQEVER	2BC	
P@JOECLUP	24C		P@QWLMSVDF	120	
P@JOTVERIF	250		P@REMDCTQ	4C8	
P@JQECAT	2B4		P@RESTORE	4B4	
P@KBUPDJQE	F4		P@RMTDVINT	484	
P@KBUPDSUB	F8		P@RMTDVSET	488	
P@KCPYMSTR	FC		P@RMTLNECK	48C	
P@KDIALOG	D0		P@RMTSETUP	490	

Name	Hex Offset	Hex Value
P@RNODEBAD	378	
P@RPDBSEC	574	
P@SAIHOT	494	
P@SCANDIAG	4B8	
P@SIGIO	558	
P@SNASNET	520	
P@SNFQUE	55C	
P@SPCIOT	524	
P@SRVCFSEL	4CC	
P@SRVDCTD	4D0	
P@SRVFNDCCR	4D4	
P@SRVMOD	4D8	
P@SRVM630	4DC	
P@SRVOLOC	4E0	
P@SRVPREFX	4E4	
P@SRVRDIR	4EC	
P@SRVROUT	4F0	
P@SRVSASCN	4F4	
P@SRVSETUP	4F8	
P@SRVWSCAN	4FC	
P@SUBDEST	44C	
P@SUBRRT	500	
P@SYSOVFY	578	
P@TIMECLOC	614	
P@TRCDUMP	1D8	
P@TRCPUT	1DC	
P@TREGROUP	454	
P@TRGETTB	1E0	
P@VETIVATE	504	
P@WLMDEQ	2C0	
P@WLMENQ	2C4	
P@WS2	508	
P@WTORTIMR	59C	
P@XCFBCAST	5CC	
P@XCFDHOMO	5D0	
P@XCFJOIN	5D4	
P@XCFLEAVE	5D8	
P@XCFMAPEV	5DC	
P@XCFMSTAT	5E0	
P@XCFQSTAT	5E4	
P@XCFUSTAT	5E8	
P@XCFXMAQU	5EC	
P@XINSTART	618	
P@XINTKEY	14C	
P@XJDTKEY	150	
P@XPOSTXEQ	61C	
P@ZAPJOB	2C8	
PADDR@OCOOFFST	8	
PADDRID	0	D7C1C4D9
PADDRLEN	630	34
PADDRV	4	
PADDRVN	4	6

\$PADDR Cross Reference

\$PARMLST Heading Information

Common Name: JES2 inline parameter list DSECT
Macro ID: \$PARMLST
DSECT Name: PARMLIST
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: N/A
 Key: N/A
 Residency: This macro is generated as inline code as part of macro expansions using \$CALL INLINE=. It can therefore reside in code anywhere in storage in any address space.
Size: Variable
Created by: Created at assembly time by \$CALL with the INLINE= parameter.
Pointed to by: N/A
Serialization: None required
Function: This DSECT defines inline parameter lists associated with the \$CALL macro via the INLINE= parameter. See \$CALL for more information.

This DSECT is composed of a base section followed by many members which ORG back over this base section. Each \$PARMLST member represents an inline parameter list for a particular service routine. In order to use \$CALL's cross assembly calling ability and have an inline parameter list, the inline parameter list must be defined as a member of this DSECT.

\$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PARMLIST	INLINE PARAMETER LIST DSECT
0	(0)	BITSTRING	4	PARMINST	FOR INSTRUCTION AFTER THE BASR
4	(4)	SIGNED	2	PARMSTRT (0)	LABEL ALL \$PARMLST MEMBERS ORG TO
Comment					
MEMBER NAME --> \$\$PO					
ROUTINE(S) ---> \$\$POST in HASCSRIC					
MACRO(S) ----> \$\$POST					
Wake up the JES2 main task					
End of Comment					
4	(4)	BITSTRING	1	\$\$POFLG1	\$\$POST flag byte
4	(4)	BITSTRING	0	\$\$PO1BRA	"B'10000000" LINKAGE=BRANCH POST
4	(4)	BITSTRING	0	\$\$PO1SYS	"B'01000000" LINKAGE=SYSTEM POST
Comment					
B'00xxxxxx' LINKAGE=SVC POST					
End of Comment					
4	(4)	BITSTRING	0	\$\$PO1ELM	"B'00100000" ELMT specified
4	(4)	BITSTRING	0	\$\$PO1RUN	"B'00010000" Run time \$DRxxx value
5	(5)	ADDRESS	1		Reserved

\$PARMLST Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$AEOJ ROUTINE(S) ---> ARMEOJ in HASCARSO MACRO(S) -----> none ARM end of job routine. This parameter list is FROZEN.					
End of Comment					
4	(4)	BITSTRING	1	\$AEOJFL1	\$AEOJ FLAG BYTE
4	(4)	BITSTRING	0	\$AEOJ1JT	"B'10000000" Job termination call
4	(4)	BITSTRING	0	\$AEOJ1EM	"B'01000000" End of memory call
Comment					
MEMBER NAME --> \$BLDTGB ROUTINE(S) ---> \$BLDTGB in HASPTRAK MACRO(S) -----> \$BLDTGB Build trackgroup block					
End of Comment					
4	(4)	BITSTRING	1	\$BTGFLG1	\$AEOJ FLAG BYTE
4	(4)	BITSTRING	0	\$BTGBMTR	"B'10000000" ID=MTTR was specified
4	(4)	BITSTRING	0	\$BTGBTGM	"B'01000000" ID=TGM was specified
Comment					
MEMBER NAME --> \$CBI ROUTINE(S) ---> \$CBIO IN HASC SRDS \$CBIOM in HASPNUC MACRO(S) -----> \$CBIO CONTROL BLOCK I/O ROUTINE.					
End of Comment					
4	(4)	BITSTRING	1	\$CBIFLG1	\$CBIO flag byte
Comment					
EQU B'10000000' Reserved					
End of Comment					
4	(4)	BITSTRING	0	\$CB1EXIT	"B'01000000" EXIT 8 SHOULD BE TAKEN
4	(4)	BITSTRING	0	\$CB1NOVF	"B'00100000" BYPASS CNTRL BLK VERIFY
4	(4)	BITSTRING	0	\$CB1NSJB	"B'00010000" NO SJB PROVIDED
4	(4)	BITSTRING	0	\$CB1SJIO	"B'00001000" SJIOB PROVIDED
4	(4)	BITSTRING	0	\$CB1FREE	"B'00000100" FREE THE BUFFER
4	(4)	BITSTRING	0	\$CB1WAIT	"B'00000010" WAIT FOR CBIO TO COMPLETE
4	(4)	BITSTRING	0	\$CB1COND	"B'00000001" Conditional Write
5	(5)	BITSTRING	1	\$CBIFLG2	\$CBIO flag byte
5	(5)	BITSTRING	0	\$CB2WRIT	"B'10000000" TYPE=WRITE operation
5	(5)	BITSTRING	0	\$CB2TWAT	"B'01000000" TYPE=WAIT requested
5	(5)	BITSTRING	0	\$CB2FSSM	"B'00100000" \$CBIO called from FSSM
6	(6)	BITSTRING	1		Reserved
7	(7)	BITSTRING	1	\$CBCKPTB	CKPTBIT VALUE
8	(8)	ADDRESS	2	\$CBSTORP	STORPTR VALUE
10	(A)	ADDRESS	2	\$CBSPOLP	SPOLPTR VALUE
12	(C)	ADDRESS	2	\$CBCKPTF	CKPTFLD VALUE
14	(E)	CHARACTER	4	\$CBVERID	VERIFY ID

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$CFX ROUTINE(S) ---> CSMICMD IN HASPCOMM MACRO(S) -----> \$CFXMJC Single Member Image subroutine.					
End of Comment					
4	(4)	BITSTRING	1	\$CFXFLG1	Response flag
4	(4)	BITSTRING	0	\$CFX1RSP	"B'10000000" Return a command response
5	(5)	BITSTRING	1		Reserved for future use
Comment					
MEMBER NAME --> \$CKPTQUE ROUTINE(S) ---> \$CKPTQUE IN HASPCKPT MACRO(S) -----> \$CKPTQUE Queue work to CKPT PCE					
End of Comment					
4	(4)	ADDRESS	4	\$CKQRTN	Routine address
Comment					
MEMBER NAME --> \$CPL ROUTINE(S) ---> CPGET, CPFREE in HASCPPOOL MACRO(S) -----> \$CPOOL CPOOL TYPE=GET SUBROUTINE.					
End of Comment					
4	(4)	BITSTRING	1	\$CPL1	
4	(4)	BITSTRING	0	\$CPL1CDY	"B'10000000" \$CPOOL COND=YES
Comment					
MEMBER NAME --> \$CTK ROUTINE(S) ---> ENF58BLD in HASCSRDS MNENF58 in HASPJOS USENF58 in HASCSRDS MACRO(S) -----> \$CTKNENF Client Token ENF Signal generation routine					
End of Comment					
4	(4)	BITSTRING	1	\$CTKQUAL	Qualifier for ENF 58
5	(5)	BITSTRING	1	\$CTKFLG1	Flag byte
5	(5)	BITSTRING	0	\$CTK1IOT	"B'10000000" IOT address passed
5	(5)	BITSTRING	0	\$CTK1JQE	"B'01000000" JQE address passed
5	(5)	BITSTRING	0	\$CTK1GCB	"B'00100000" GCB address passed
5	(5)	BITSTRING	0	\$CTK1PQE	"B'00010000" PQE address passed
5	(5)	BITSTRING	0	\$CTK1CTK	"B'00001000" CTOKEN address passed
Comment					
MEMBER NAME --> \$CW ROUTINE(S) ---> CWTO IN HASPCOMM MACRO(S) -----> \$CWTO WRITE - TO - OPERATOR SUBROUTINE.					
End of Comment					
4	(4)	ADDRESS	1	\$CWTOFLG	
4	(4)	BITSTRING	0	\$CWTOMVC	"B'10000000" EXECUTE OF MVC INSTRUCT. NEEDED
4	(4)	BITSTRING	0	\$CWTOLST	"B'01000000" LAST LINE OF MLWTO
4	(4)	BITSTRING	0	\$CWTONWT	"B'00100000" WAIT=NO WAS SPECIFIED

\$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$DIL ROUTINE(S) ---> \$DILBERT in HASPJQS MACRO(S) ----> \$DILBERT Do It Later when BERT lock is available routine inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$DILTYPE	TYPE specification
4	(4)	X'1'	0	\$DILTJQE	"1" TYPE=JQE specified
5	(5)	BITSTRING	1	\$DILVERS	Version
5	(5)	X'1'	0	\$DILCVER	"1" Current version
6	(6)	BITSTRING	1	\$DILFLG1	Flag byte
6	(6)	BITSTRING	0	\$DILF1CL	"B'10000000" CALL=YES speciifed
6	(6)	BITSTRING	0	\$DILF1IM	"B'01000000" Execute immediate instruction rather than calling routine
6	(6)	BITSTRING	0	\$DILF1WA	"B'00100000" \$WAIT for flush
6	(6)	BITSTRING	0	\$DILF1FL	"B'00010000" Flush DWAs
6	(6)	BITSTRING	0	\$DILF1PO	"B'00001000" \$POST Resource
6	(6)	BITSTRING	0	\$DILF1ND	"B'00000100" Do not queue duplicates
6	(6)	BITSTRING	0	\$DILF1QP	"B'00000010" QPOST when resource ret
6	(6)	BITSTRING	0	\$DILF1#P	"B'00000001" \$#POST when resource ret
7	(7)	BITSTRING	1	\$DILFLG2	Second Flag byte
7	(7)	BITSTRING	0	\$DILF2PA	"B'10000000" Pace requests by rtn addr
7	(7)	BITSTRING	0	\$DILF2QS	"B'01000000" Queues need not be owned
7	(7)	BITSTRING	0	\$DILF2SP	"B'00100000" Get JQA in special mode
7	(7)	BITSTRING	0	\$DILF2CK	"B'00010000" Check DWAs
7	(7)	BITSTRING	0	\$DILF2FN	"B'00000100" Don't queue a DWA if flush unsuccessful
7	(7)	BITSTRING	0	\$DILF2FP	"B'00000010" Flush only DWAs for this specific PCE
7	(7)	BITSTRING	0	\$DILF2FT	"B'00000001" Flush only DWAs for this PCE type
8	(8)	BITSTRING	4	\$DILIMME	Immed instruction
Comment					
MEMBER NAME --> \$DOGJQE ROUTINE(S) ---> \$DOGJQE MACRO(S) ----> \$DOGJQE Deliver or Get JQE routine's inline parameter list					
End of Comment					
0	(0)	SIGNED	1	\$DJACT	Action requested
0	(0)	X'1'	0	\$DJAFETN	"0" Fetch next JQE
0	(0)	X'4'	0	\$DJAFET	"4" Fetch JQE
0	(0)	X'8'	0	\$DJALOCK	"8" Manage BERT lock
0	(0)	X'C'	0	\$DJARET	"12" RETURN JQE (CKPT and Rel)
0	(0)	X'10'	0	\$DJACKPT	"16" CKPT JQE (CKPT, *no* Rel)
0	(0)	X'14'	0	\$DJAREFR	"20" Refresh JQA
0	(0)	X'18'	0	\$DJAFREE	"24" Free JQA
0	(0)	X'1C'	0	\$DJASETA	"28" Set access
0	(0)	X'20'	0	\$DJAQLOK	"32" QUERYLOCK
0	(0)	X'24'	0	\$DJAFLD	"36" CKPTFLD
1	(1)	BITSTRING	1	\$DJFLAG2	More \$DOGJQE option flags
1	(1)	BITSTRING	0	\$DJ2DSRV	"B'10000000" DSERV provided
1	(1)	BITSTRING	0	\$DJ2SPCL	"B'01000000" Special call (no BERT lock)
1	(1)	BITSTRING	0	\$DJ2KEEP	"B'00100000" Keep memory for JQA
1	(1)	BITSTRING	0	\$DJ2NWAT	"B'00010000" WAIT=NO or QUERYLOCK,OBTAINABLE
1	(1)	BITSTRING	0	\$DJ2CONF	"B'00001000" Conditional FREE
1	(1)	BITSTRING	0	\$DJ2POST	"B'00000100" POST=YES for ACTION=CKPT
1	(1)	BITSTRING	0	\$DJ2UCON	"B'00000010" Unconditional return for ACTION=RETURN
1	(1)	BITSTRING	0	\$DJ2URFR	"B'00000001" Unconditional refresh
2	(2)	BITSTRING	1	\$DJFLAG3	More \$DOGJQE option flags
2	(2)	BITSTRING	0	\$DJ3READ	"B'10000000" READ access requested

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
2	(2)	BITSTRING	0	\$DJ3RELE	"B'01000000" Release BERT lock
2	(2)	BITSTRING	0	\$DJ3WDEF	"B'00100000" Defer RETURN if required
2	(2)	BITSTRING	0	\$DJ3NUPD	"B'00010000" RETURN,NOUPDATE
2	(2)	BITSTRING	0	\$DJ3QPSY	"B'00001000" QPOST=YES
2	(2)	BITSTRING	0	\$DJ3#PSY	"B'00000100" #POST=YES
2	(2)	BITSTRING	0	\$DJ3MAX	"B'00000010" ACTION=(CKPT,MAXJQA)
3	(3)	SIGNED	1	\$DJVERS	Version of parameter list
3	(3)	X'1 '	0	\$DJCVER	"1" Parameter list version
4	(4)	SIGNED	2	\$DJCHAIN	Offset of chaining field (present only if \$DJFETN)
4	(4)	X'6 '	0	\$DJLEN	**"PARMLIST" Length of \$DOGJQE MF=L

Comment

MEMBER NAME --> \$DST
 ROUTINE(S) ---> USERDEST IN HASCSIRQ
 MACRO(S) ----> \$DEST
 DESTINATION CONVERSION ROUTINE'S INLINE PARAMETER LIST.

End of Comment

4	(4)	BITSTRING	1	\$DSTFLG1	\$DEST MACRO OPTION FLAGS
4	(4)	BITSTRING	0	\$DSTCHAR	"B'10000000" CHARACTER INPUT
4	(4)	BITSTRING	0	\$DSTRDT	"B'01000000" DESTIDs allowed
4	(4)	BITSTRING	0	\$DSTGNRC	"B'00100000" Generic userids allowed at local node
4	(4)	BITSTRING	0	\$DST1EXP	"B'00010000" EXPLICIT=YES was specified
4	(4)	BITSTRING	0	\$DSTNRP	"B'00001000" RMTPOOL=NO WAS REQUESTED
4	(4)	BITSTRING	0	\$DSTPRIM	"B'00000100" PRIMARY=YES, RETURN NODENM
4	(4)	BITSTRING	0	\$DSTUSER	"B'00000010" USERID SUPPLIED OR DESIRED
4	(4)	BITSTRING	0	\$DSTNSPR	"B'00000001" DO NOT SUPPRESS NODE FOR LOCAL BINARY TO CHARACTER CONV
5	(5)	BITSTRING	1	\$DSTFLG2	\$DEST macro options flag 2
5	(5)	BITSTRING	0	\$DST2IGN	"B'10000000" NODENAME=IGNORED
5	(5)	BITSTRING	0	\$DST2DFM	"B'01000000" DLMFAIL=YES
5	(5)	BITSTRING	0	\$DST2NUS	"B'00100000" DONTUSE= was specified
5	(5)	BITSTRING	0	\$DST2IPY	"B'00010000" IPFORM=YES (or LONG) was specified
5	(5)	BITSTRING	0	\$DST2IGS	"B'00001000" SHOWUSER=IGNORED
5	(5)	BITSTRING	0	\$DST2IPD	"B'00000100" IPFORM=SHORT was specified

Comment

MEMBER NAME --> \$DSD
 ROUTINE(S) ---> \$DESTDYN IN HASPDYN
 MACRO(S) ----> \$DESTDYN
 DESTINATION DEFINITION ROUTINE'S INLINE PARAMETER LIST.

End of Comment

4	(4)	BITSTRING	1	\$DSDFLG1	\$DESTDYN MACRO OPTION FLAGS (VALUES ARE RDT1NODE/RDT1DEST)
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Comment

MEMBER NAME --> \$DGB
 ROUTINE(S) ---> \$DOGBERT in HASPCKPT
 BERTREAD in HASCSRIC
 MACRO(S) ----> \$DOGBERT
 BERT Deliver and Get services inline parm list

End of Comment

4	(4)	SIGNED	1	\$DGBACT	ACTION= being requested
4	(4)	X'1 '	0	\$DGBFTCH	"1" FETCH action
4	(4)	X'2 '	0	\$DGBNEXT	"2" FETCHNEXT action
4	(4)	X'3 '	0	\$DGBCKPT	"3" CKPT action
4	(4)	X'4 '	0	\$DGBRETN	"4" RETURN action
4	(4)	X'5 '	0	\$DGBFREE	"5" FREE action
4	(4)	X'6 '	0	\$DGBSTSP	"6" SETSPECIAL action

\$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
5	(5)	BITSTRING	1	\$DGBFLAG	General parameter flags
5	(5)	BITSTRING	0	\$DGBWAIT	"B'10000000" \$WAIT is allowed
5	(5)	BITSTRING	0	\$DGBQSUS	"B'01000000" Get the queues
5	(5)	BITSTRING	0	\$DGBUPDT	"B'00100000" Update access needed
5	(5)	BITSTRING	0	\$DGBNAME	"B'00010000" NAME= was passed
5	(5)	BITSTRING	0	\$DGBTOKN	"B'00001000" TOKEN= was passed
5	(5)	BITSTRING	0	\$DGBSPEC	"B'00000100" SPECIAL=YES was specified
5	(5)	BITSTRING	0	\$DGBNUPD	"B'00000010" No write update requested
5	(5)	BITSTRING	0	\$DGBNRDD	"B'00000001" No read data requested

Comment

 The following must match the values in BRTTYPE in
 the \$BERT control block.

End of Comment

6	(6)	SIGNED	1	\$DGBCB	Control block type
6	(6)	X' '	0	\$DGBINT	"0" Internal control block
6	(6)	X'1 '	0	\$DGBJQE	"1" JQE control block ext
6	(6)	X'2 '	0	\$DGBCAT	"2" CAT control block
6	(6)	X'3 '	0	\$DGBWSCQ	"3" WLM Service Class Queue
6	(6)	BITSTRING	0	\$DGBDYN	"X'FF" Dynamically defined type
7	(7)	BITSTRING	1	\$DGBFLG2	Second flag byte
7	(7)	BITSTRING	0	\$DGB2CRE	"B'10000000" ACTION=(,CREATE) spec
7	(7)	BITSTRING	0	\$DGB2UNK	"B'01000000" CB type unknown
7	(7)	BITSTRING	0	\$DGB2PAD	"B'00100000" ACTION=(CKPT,PAD)

Comment

 The following field is only generated for
 dynamic BERT types

End of Comment

8	(8)	CHARACTER	8	\$DGBTNAM	BERT type in EBCDIC
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Comment

MEMBER NAME --> \$DGT
 ROUTINE(S) ---> \$DOGCAT routine in HASPXEQ
 MACRO(S) ----> \$DOGCAT
 Deliver Or Get Class Attribute Table

End of Comment

4	(4)	BITSTRING	1	\$DGTFLG1	\$DOGCAT Macro options
4	(4)	BITSTRING	0	\$DGT1FET	"B'10000000" ACTION=FETCH
4	(4)	BITSTRING	0	\$DGT1FTN	"B'01000000" ACTION=FETCHNEXT
4	(4)	BITSTRING	0	\$DGT1UPD	"B'00100000" ACTION=(...,UPDATE)
4	(4)	BITSTRING	0	\$DGT1NUP	"B'00010000" UPDATE=IGNORE
4	(4)	BITSTRING	0	\$DGT1INT	"B'00001000" INIT=YES specified
4	(4)	BITSTRING	0	\$DGT1AQS	"B'00000100" ALLQUES=YES specified
4	(4)	BITSTRING	0	\$DGT1AQR	"B'00000010" ALLQUES=(YES,REBLD)
4	(4)	BITSTRING	0	\$DGT1TYP	"B'00000001" TYPE= was specified

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>MEMBER NAME --> \$DGW ROUTINE(S) ---> \$DOGWSCQ routine in HASPXEQ MACRO(S) -----> \$DOGWSCQ Deliver Or Get Service Class Queue</p>					
End of Comment					
4	(4)	BITSTRING	1	\$DGWFLG1	\$DOGWSCQ Macro options
4	(4)	BITSTRING	0	\$DGW1FET	"B'10000000" ACTION=FETCH
4	(4)	BITSTRING	0	\$DGW1FTN	"B'01000000" ACTION=FETCHNEXT
4	(4)	BITSTRING	0	\$DGW1UPD	"B'00100000" ACTION=(...,UPDATE)
4	(4)	BITSTRING	0	\$DGW1NUP	"B'00010000" ACTION=(...,NOUPDATE)
4	(4)	BITSTRING	0	\$DGW1FRE	"B'00001000" ACTION=FREE
4	(4)	BITSTRING	0	\$DGW1CKP	"B'00000100" ACTION=CKPT
4	(4)	BITSTRING	0	\$DGW1CRE	"B'00000010" ACTION=(FETCH,CREATE)
Comment					
<p>MEMBER NAME --> \$DSN ROUTINE(S) ---> DAATSET SET NAME VERIFICATION IN HASPSRDS MACRO(S) -----> \$DSNVFY DESTINATION DEFINITION ROUTINE'S INLINE PARAMETER LIST.</p>					
End of Comment					
4	(4)	.... .... BITSTRING	0	DSNVALL DSNRONLY	"B'00000000" COMPLETE DATASET NAME VERIFICATION "B'10000000" RESERVE WORD ONLY VERIFICATION
Comment					
<p>MEMBER NAME --> \$DV ROUTINE(S) ---> CNVDEVID ROUTINE IN HASCSISC MACRO(S) -----> \$DVIDBLD CONVERT A DEVID TO A DEVICE NAME</p>					
End of Comment					
4	(4)	BITSTRING	1	\$DVFLG1	Flags
4	(4)	BITSTRING	0	\$DV1JQE	"B'10000000" JQE address passed
5	(5)	SIGNED	1	\$DVLENG	Length of output field
Comment					
<p>MEMBER NAME --> \$EST ROUTINE(S) ---> SSISESTA in HASCLINK MACRO(S) -----> \$ESTAE (assembler) \$ESTAEP (PL/X) JES2 Establish ESTAE Inline Parameter List.</p>					
End of Comment					
4	(4)	BITSTRING	1	\$ESTFCN	Requested function
4	(4)	BITSTRING	0	\$ESTCRAT	"B'10000000" Create
4	(4)	BITSTRING	0	\$ESTDLET	"B'01000000" Delete
5	(5)	BITSTRING	1		Reserved for future IBM use
6	(6)	ADDRESS	4	\$ESTRECX	Recovery exit addr if any
10	(A)	SIGNED	2	\$ESTNBR	Number of retry addresses - currently always 1
12	(C)	ADDRESS	4	\$ESTRTYA	Retry address

\$PARMLST Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> EXI ROUTINE(S) ---> \$JESEFF IN HASPNUC, USERSUB IN HASCSIRQ MACRO(S) -----> \$EXIT JES2 EXIT EFFECTOR'S INLINE PARAMETER LIST.					
End of Comment					
4	(4)	CHARACTER	8	EXITNAME	LABEL ON \$EXIT OR CSECT NAME IF NO LABEL WAS SPECIFIED
12	(C)	BITSTRING	1	EXITFLGS	EXIT FLAGS
Comment					
The bits EXITUSER, EXITSTSK, EXITJES2 and EXITFSS have a one to one correspondence to the following bits in \$TTE : TDXFENVU, TDXFENV5, TDXFENVJ and TDXFENVF. These bits MUST remain in the currently defined order.					
End of Comment					
12	(C)	BITSTRING	0	EXITTR	"B'10000000" EXIT EFFECTOR SHOULD DO TRACE
12	(C)	BITSTRING	0	EXITUSER	"B'01000000" USER ENVIRONMENT
12	(C)	BITSTRING	0	EXITSTSK	"B'00100000" SUBTASK ENVIRONMENT
12	(C)	BITSTRING	0	EXITJES2	"B'00010000" JES2 ENVIRONMENT
12	(C)	BITSTRING	0	EXITFSS	"B'00001000" FSS ENVIRONMENT
13	(D)	ADDRESS	1	EXITID	EXIT ID
14	(E)	ADDRESS	1	EXITMRC	MAXIMUM RETURN CODE
15	(F)	ADDRESS	1	EXITRSVD	RESERVED FOR FUTURE USE
15	(F)	X'C	0	EXITLNG	"(*-PARMSTRT+1)/2*2" LENGTH OF EXIT PARAMETER LIST
Comment					
MEMBER NAME --> \$FAC ROUTINE(S) ---> \$FMTSACC in HASMIPSV MACRO(S) -----> \$FMTSACC and \$FMTSFMT \$FMTSACC and \$FMTSFMT inline parameter list					
End of Comment					
4	(4)	CHARACTER	8	\$FACSECT	Control section name
12	(C)	CHARACTER	8	\$FACSEQF	Invoking sequence number
12	(C)	X'4 00010'	0	\$FACMOSQ	"\$FACSECT,*-\$FACSECT,C'C" Module/sequence
Comment					
MEMBER NAME --> \$FB ROUTINE(S) ---> \$MLTFBUF IN HASCLINK MACRO(S) -----> \$FREEBUF TYPE=MULT \$FREEBUF'S INLINE PARAMETER LIST					
End of Comment					
4	(4)	BITSTRING	1	\$FBFLAG1	\$FREEBUF OPTION FLAG 1
4	(4)	BITSTRING	0	\$FB1PROT	"B'10000000" BUFFER TYPE=PROT
4	(4)	BITSTRING	0	\$FB1HOLD	"B'00100000" BUFFER TYPE=HOLD
5	(5)	BITSTRING	1		Reserved
6	(6)	SIGNED	2	\$FBSTORP	Buffer chain offset

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Member name --> \$FM Routine(s) ---> \$FBUFRTN in HASCLINK Macro(s) -----> \$CALL \$FBUFRTN,INLINE=\$FBUFRTN'S inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$FMFLAG1	\$FBUFRTN option FLAG 1
4	(4)	BITSTRING	0	\$FM1\$ERR	"B'10000000" Issue \$ERROR macro if unfreed buffers remain
5	(5)	BITSTRING	1	\$FMFLAG2	\$FBUFRTN option flag 2
5	(5)	BITSTRING	0	\$FM2PBF	"B'10000000" Free buffers in SDBPBF
5	(5)	BITSTRING	0	\$FM2PBX	"B'01000000" Free buffers in SDBPBFX
5	(5)	BITSTRING	0	\$FM2UBF	"B'00100000" Free buffers in SDBUBF
5	(5)	BITSTRING	0	\$FM2HBF	"B'00010000" Free buffers in SDBHBF
5	(5)	BITSTRING	0	\$FM2FBF	"B'00001000" Free buffers in SDBFBF
5	(5)	BITSTRING	0	\$FM2GBF	"B'00000100" Free buffers in SDBGBF
5	(5)	BITSTRING	0	\$FM2TMP	"B'00000010" Free buffers in SDBPBTMP
5	(5)	X'CE	0	\$FM2PROT	"\$FM2PBF+\$FM2PBX+\$FM2TMP+\$FM2GBF+\$FM2FBF" All protected buffers
5	(5)	X'FE	0	\$FM2ALL	"\$FM2PBF+\$FM2PBX+\$FM2UBF+\$FM2HBF+\$FM2FBF+\$FM2GBF+\$FM2TMP" Free all buffers
Comment					
MEMBER NAME --> \$FBM ROUTINE(S) ---> \$FMTBLDM in HASMIPSV MACRO(S) -----> \$FMTBLDM \$FMTBLDM inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$FBMFLG1	Flag byte 1
4	(4)	BITSTRING	0	\$FBM1INT	"B'10000000" Initialize message
4	(4)	BITSTRING	0	\$FBM1ADD	"B'01000000" Add text to message
4	(4)	BITSTRING	0	\$FBM1LAS	"B'00100000" Last (issue message)
4	(4)	BITSTRING	0	\$FBM1MFL	"B'00010000" Text is list form msg
4	(4)	BITSTRING	0	\$FBM1TTB	"B'00001000" Truncate trailing blanks
4	(4)	BITSTRING	0	\$FBM1CNV	"B'00000100" Data conversion requested
4	(4)	BITSTRING	0	\$FBM1ABB	"B'00000010" Add blank before text/dat
4	(4)	BITSTRING	0	\$FBM1ABA	"B'00000001" Add blank after text/data
5	(5)	BITSTRING	1	\$FBMFLG2	Flag byte 2
5	(5)	BITSTRING	0	\$FBM2RES	"B'10000000" Reset message
5	(5)	BITSTRING	0	\$FBM2MTB	"B'01000000" Process \$FMTMTAB
5	(5)	BITSTRING	0	\$FBM2WID	"B'00100000" Use wide message width
6	(6)	ADDRESS	1	\$FBMCTYP	Conversion type
6	(6)	X'1	0	\$FBMCTAD	"1" ADDRESS
6	(6)	X'2	0	\$FBMCTAS	"2" ASID
6	(6)	X'3	0	\$FBMCTAC	"3" ASID_COND
6	(6)	X'4	0	\$FBMCTDS	"4" DSPNAME
6	(6)	X'5	0	\$FBMCTDC	"5" DSPNAME_COND
6	(6)	X'6	0	\$FBMCTEB	"6" EBCDIC_BLANK_FILL
6	(6)	X'7	0	\$FBMCTEP	"7" EBCDIC_PERIOD_FILL
6	(6)	X'8	0	\$FBMCTHX	"8" HEX
6	(6)	X'9	0	\$FBMCTRH	"9" HEXRAW
6	(6)	X'A	0	\$FBMCTKM	"10" KM
6	(6)	X'B	0	\$FBMCTOF	"11" OFFSET
6	(6)	X'C	0	\$FBMCTSI	"12" SIGNINT
6	(6)	X'D	0	\$FBMCTSR	"13" SIGNINTRAW
7	(7)	BITSTRING	1		Reserved for future use
8	(8)	CHARACTER	8	\$FBMSECT	Control section name
16	(10)	CHARACTER	8	\$FBMSEQF	Invoking sequence number
16	(10)	X'14	0	\$FBMPLEN	"*-PARMSTRT" Length of parms to trace

\$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$FDI ROUTINE(S) ---> \$FMTDIAL in HASMIPSV MACRO(S) -----> \$FMTDIAL \$FMTDIAL inline parameter list					
End of Comment					
4	(4)	ADDRESS	1	\$FDITYPE	Type indicator byte
4	(4)	X'1	0	\$FDITCHR	"1" Character data
4	(4)	X'2	0	\$FDITHEX	"2" Hexadecimal data
4	(4)	X'3	0	\$FDITUSI	"3" Unsigned integer
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	\$FDISECT	Control section name
14	(E)	CHARACTER	8	\$FDISEQF	Invoking sequence number
Comment					
MEMBER NAME --> \$FEV ROUTINE(S) ---> \$FMTENV in HASMIPSV MACRO(S) -----> \$FMTENV \$FMTENV inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$FEVFLG1	Flag byte 1
4	(4)	BITSTRING	0	\$FEV1CRE	"B'10000000" CREATE request
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	ADDRESS	2	\$FEVVER	Current \$IPCSWRK version #
8	(8)	CHARACTER	8	\$FEVSECT	Control section name
16	(10)	CHARACTER	8	\$FEVSEQF	Invoking sequence number
Comment					
MEMBER NAME --> \$FGA ROUTINE(S) ---> \$FM TGADR in HASMIPSV MACRO(S) -----> \$FM TGADR \$FM TGADR inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$FGAFLG1	Flag byte 1
4	(4)	BITSTRING	0	\$FGA1LUP	"B'10000000" Lookup a cb address
4	(4)	BITSTRING	0	\$FGA1GNS	"B'01000000" Setup for a cb set
4	(4)	BITSTRING	0	\$FGA1GTN	"B'00100000" Get next cb in a set
4	(4)	X'E0	0	\$FGA1STD	"\$FGA1LUP+\$FGA1GNS+\$FGA1GTN" Standard call if any bit on
4	(4)	BITSTRING	0	\$FGA1EYE	"B'00010000" Verify eye (cont if err)
4	(4)	BITSTRING	0	\$FGA1ZPM	"B'00001000" Issue msg if zero pointer
4	(4)	BITSTRING	0	\$FGA1ACM	"B'00000100" Issue msg if access error
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	\$FGASECT	Control section name
14	(E)	CHARACTER	8	\$FGASEQF	Invoking sequence number
14	(E)	X'12	0	\$FGAPLEN	** -PARMSTRT" Length of parms to trace
Comment					
MEMBER NAME --> \$FGF ROUTINE(S) ---> \$FM TGFLD in HASMIPSV MACRO(S) -----> \$FM TGFLD \$FM TGFLD inline parameter list					
End of Comment					
4	(4)	CHARACTER	8	\$FGFSECT	Control section name
12	(C)	CHARACTER	8	\$FGFSEQF	Invoking sequence number

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$FLE ROUTINE(S) ---> \$FMTLERR in HASMIPSV MACRO(S) ----> \$FMTLERR \$FMTLERR inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$FLEFLG1	Flag byte 1
4	(4)	BITSTRING	0	\$FLE1RC	"B'10000000" Reason code provided
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	\$FLESECT	Control section name
14	(E)	CHARACTER	8	\$FLESEQF	Invoking sequence number
22	(16)	ADDRESS	4	\$FLEAPAR	Addr of APARNUM symbol
Comment					
MEMBER NAME --> \$FMS ROUTINE(S) ---> \$FMTMSG in HASMIPSV MACRO(S) ----> \$FMTMSG \$FMTMSG inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$FMSFLG1	Flag byte 1
4	(4)	BITSTRING	0	\$FMS1WID	"B'10000000" Wide message width
4	(4)	BITSTRING	0	\$FMS1BLN	"B'01000000" Display blank line
4	(4)	BITSTRING	0	\$FMS1CBL	"B'00100000" Conditional blank line
4	(4)	BITSTRING	0	\$FMS1IND	"B'00010000" Indentation requested
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	\$FMSSECT	Control section name
14	(E)	CHARACTER	8	\$FMSSEQF	Invoking sequence number
14	(E)	X'12	0	\$FMSPLEN	"*-PARAMSTR" Length of parms to trace
Comment					
MEMBER NAME --> \$FPR ROUTINE(S) ---> \$FMTPROC in HASMIPSV MACRO(S) ----> \$FMTPROC \$FMTPROC inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$FPRFLG1	Flag byte 1
4	(4)	BITSTRING	0	\$FPR1MLT	"B'10000000" Process MULTIPLE FMTCTABs
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	\$FPRSECT	Control section name
14	(E)	CHARACTER	8	\$FPRSEQF	Invoking sequence number
Comment					
MEMBER NAME --> \$FRE ROUTINE(S) ---> \$FREJLOK in HASPJQS MACRO(S) ----> \$FRELOK \$FRELOK inline parameter list for TYPE=JOB					
End of Comment					
4	(4)	BITSTRING	1	\$FREFLG1	\$FRELOK option flag
4	(4)	BITSTRING	0	\$FRE1NW	"B'10000000" Cannot \$WAIT
4	(4)	BITSTRING	0	\$FRE1NTR	"B'01000000" Do not take trace
4	(4)	BITSTRING	0	\$FRE1JQA	"B'00100000" Free JQA

\$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$FSA ROUTINE(S) ---> \$FMTSETA in HASMIPSV MACRO(S) ----> \$FMTSETA \$FMTSETA inline parameter list					
End of Comment					
4	(4)	CHARACTER	8	\$FSASECT	Control section name
12	(C)	CHARACTER	8	\$FSASEQF	Invoking sequence number
12	(C)	X'4 00010'	0	\$FSAMOSQ	"\$FSASECT,*-\$FSASECT,C'C" Module/sequence
Comment					
MEMBER NAME --> \$FST ROUTINE(S) ---> \$FMTSTOR in HASMIPSV MACRO(S) ----> \$FMTSTOR \$FMTSTOR inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$FSTFLG1	Flag byte 1
4	(4)	X'1 '	0	\$FST1GTU	"1" Get storage unconditional
4	(4)	X'2 '	0	\$FST1GTC	"2" Get storage conditional
4	(4)	X'3 '	0	\$FST1FRE	"3" Free storage
5	(5)	BITSTRING	1	\$FSTFLG2	Flag byte 2
5	(5)	BITSTRING	0	\$FST2FAD	"B'10000000" ADDR specified on free
5	(5)	BITSTRING	0	\$FST2CTS	"B'01000000" *CTAB_WORK
5	(5)	BITSTRING	0	\$FST2CTM	"B'00100000" *CTAB_WORK_LEVEL
5	(5)	BITSTRING	0	\$FST2PTS	"B'00010000" *PARENT_CTAB_WORK
5	(5)	BITSTRING	0	\$FST2PTM	"B'00001000" *PARENT_CTAB_WORK_LEVEL
5	(5)	BITSTRING	0	\$FST2TAB	"B'01111000" Ctab related request
6	(6)	CHARACTER	8	\$FSTSECT	Control section name
14	(E)	CHARACTER	8	\$FSTSEQF	Invoking sequence number
Comment					
MEMBER NAME --> \$FUC ROUTINE(S) ---> \$FREUCBS IN HASPNUC MACRO(S) ----> \$FREUCBS \$FREUCBS' INLINE PARAMETER LIST					
End of Comment					
4	(4)	BITSTRING	1	\$FUCFLG1	\$FREUCBS OPTION FLAG
4	(4)	BITSTRING	0	\$FUC1UNP	"B'10000000" UNPIN=YES specified
Comment					
MEMBER NAME --> \$GTA ROUTINE(S) ---> \$GETABLE in HASPTABS MACRO(S) ----> \$GETABLE \$GETABLE routine inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$GTATYPE	Table type (See \$MITETBL for valid types)
5	(5)	BITSTRING	1	\$GTAFLG1	Flag byte
5	(5)	BITSTRING	0	\$GTAH1ST	"B'10000000" Run HASP tables first

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$GTB ROUTINE(S) ---> \$GETBUFR IN HASPNUC MACRO(S) -----> \$GETBUF \$GETBUF'S INLINE PARAMETER LIST					
End of Comment					
4	(4)	BITSTRING	1	\$GTBFLG1	\$GETBUF OPTION FLAG
Comment					
B'10000000' \$GBUFWT used in \$HASPEQU					
End of Comment					
4	(4)	BITSTRING	0	\$GTB1WAT	"B'10000000" Wait requested
4	(4)	BITSTRING	0	\$GTB1FIX	"B'01000000" Wait requested
4	(4)	BITSTRING	0	\$GTB1MUL	"B'00100000" Multiple buffers requested
4	(4)	BITSTRING	0	\$GTB1LOW	"B'00010000" GET STORAGE BELOW 16MB
5	(5)	BITSTRING	1	\$GTBFTYP	Buffer type flag
Comment					
MEMBER NAME --> GCMB ROUTINE(S) ---> \$GETCMBR MACRO(S) -----> \$GETCMB \$GETCMB's inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$GTCFLG1	\$GETCMB option flag byte
4	(4)	BITSTRING	0	\$GTC1WAT	"B'10000000" WAIT=YES requested
4	(4)	BITSTRING	0	\$GTC1DMC	"B'01000000" DEMANDCMB=YES specified
5	(5)	BITSTRING	1		Reserved for future use
Comment					
MEMBER NAME --> \$GNH ROUTINE(S) ---> \$GETNHB MACRO(S) -----> \$GETNHB \$GETNHB's inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$GNHFLG1	\$GETNHB option flag byte
4	(4)	BITSTRING	0	\$GNH1WAT	"B'10000000" WAIT=YES requested
5	(5)	BITSTRING	1		Reserved for future use
Comment					
MEMBER NAME --> \$GUC ROUTINE(S) ---> \$GETUCBS IN HASPNUC MACRO(S) -----> \$GETUCBS \$GETUCBS' INLINE PARAMETER LIST					
End of Comment					
4	(4)	BITSTRING	1	\$GUCFLG1	\$GETUCBS OPTION FLAG
4	(4)	BITSTRING	0	\$GUC1CNT	"B'10000000" CONT=YES specified
4	(4)	BITSTRING	0	\$GUC1UNT	"B'01000000" UNIT= specified

\$PARMLST Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>MEMBER NAME --> \$GC ROUTINE(S) ---> \$GETCEL IN HASLINK MACRO(S) ----> \$GETCEL JES2 CSA CELL POOL GET ROUTINE (\$GETCEL) PARAMETER LIST THIS PARM LIST VARIES IN LENGTH. IF THE SIZE= PARAMETER ON THE \$GETCEL MACRO IS SPECIFIED IN REGISTER NOTATION, THEN REGISTER 2 IS LOADED WITH THE SIZE. OTHERWISE, THE THE SIZE OF THE CSA CELL TO OBTAIN IS PLACED AT THE END OF THE PARAMETER LIST.</p>					
End of Comment					
4	(4)	BITSTRING	1	\$GCFLAG1	FLAG BYTE FOR \$GETCEL
4	(4)	BITSTRING	0	\$GC1LPRM	"B'10000000" LONG FORM OF VARIABLE PARM LIST
5	(5)	BITSTRING	1	\$GCRSVRD	RESERVED FOR FUTURE USE
Comment					
<p>VARIABLE PORTION OF THE \$GETCEL PARAMETER LIST.</p>					
End of Comment					
6	(6)	ADDRESS	2	\$GCSIZE	SIZE OF CSA CELL REQUESTED
Comment					
<p>MEMBER NAME --> \$GF ROUTINE(S) ---> \$GFMAIN IN HASPNUC, \$HGFMAIN IN HASLINK MACRO(S) ----> \$GETMAIN BRANCH ENTRY GETMAIN/FREEMAIN SERVICES INLINE PARM LIST.</p>					
End of Comment					
4	(4)	BITSTRING	1	\$GFFLG3	\$GETMAIN/\$FREEMAIN flag 3
4	(4)	BITSTRING	0	\$GF3LVR0	"B'10000000" Indicate LV passed in R0
4	(4)	BITSTRING	0	\$GF3BUFR	"B'01000000" Indicate buffer get/free
4	(4)	BITSTRING	0	\$GF3HTCB	"B'00100000" Indicate TCB=HIGH
4	(4)	BITSTRING	0	\$GF3FREE	"B'00010000" Indicate free main/buf
4	(4)	BITSTRING	0	\$GF3TCBY	"B'00001000" Indicate TCB=YES, TCB in R1
4	(4)	BITSTRING	0	\$GF3JTCB	"B'00000100" Indicate JOB STEP TCB
4	(4)	BITSTRING	0	\$GF3TCBK	"B'00000010" Indicate TCBPKF used as key
4	(4)	BITSTRING	0	\$GF3PSWK	"B'00000001" Indicate PSW used as key
5	(5)	BITSTRING	1	\$GFFLG4	\$GETMAIN/\$FREEMAIN flag 4
5	(5)	BITSTRING	0	\$GF4SPR0	"B'10000000" Subpool passed in R0
5	(5)	BITSTRING	0	\$GF4STOR	"B'01000000" KEY=STORAGE for UBUFs only
5	(5)	BITSTRING	0	\$GF4ZERO	"B'00100000" ZEROSTOR=YES specified
5	(5)	BITSTRING	0	\$GF4NOLV	"B'00010000" Subpool freemain (no LV=)
6	(6)	SIGNED	4	\$GFLENV	\$GETMAIN/\$FREEMAIN length
Comment					
<p>----- \$GFFLG1 through \$GFFLG2 are passed to the service in R15 and not in \$PARMLST. These flags must match the register 3 value passed to branch entry GETMAIN/FREEMAIN -----</p>					
End of Comment					
10	(A)	BITSTRING	1	\$GFFLG1	\$GETMAIN/\$FREEMAIN flag 1

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
EQU B'10000000' Reserved					
EQU B'01000000' Reserved					
EQU B'00100000' AR 15 is in use					
End of Comment					
10	(A)	BITSTRING	0	\$GF1RS64	"B'00010000" Indicate LOC=(,64)
10	(A)	BITSTRING	0	\$GF1CHK0	"B'00001000" Indicate CHECKZERO=YES
Comment					
EQU B'00000100' Reserved					
End of Comment					
		.... ....		\$GF1OHOM	"B'00000000" Indicate OWNER=HOME
10	(A)	BITSTRING	0	\$GF1OPRI	"B'00000001" Indicate OWNER=PRIMARY
10	(A)	BITSTRING	0	\$GF1OSEC	"B'00000010" Indicate OWNER=SECONDARY
10	(A)	BITSTRING	0	\$GF1OSYS	"B'00000011" Indicate OWNER=SYSTEM
11	(B)	BITSTRING	1	\$GFKEY	KEY STORAGE REQUESTED IN
12	(C)	BITSTRING	1	\$GFSUBPL	SUBPOOL STORAGE REQUESTED IN
13	(D)	BITSTRING	1	\$GFFLG2	\$GETMAIN/\$FREEMAIN flag 2
Comment					
EQU B'10000000' Reserved					
End of Comment					
13	(D)	BITSTRING	0	\$GF2RS31	"B'01000000" Indicate LOC=(,31)
13	(D)	BITSTRING	0	\$GF2LC31	"B'00100000" Indicate LOC=31
13	(D)	BITSTRING	0	\$GF2LC24	"B'00010000" Indicate LOC=24
Comment					
EQU B'00001000' Ind variable request					
End of Comment					
13	(D)	BITSTRING	0	\$GF2PGB	"B'00000100" INDICATE BNDRY=PAGE
13	(D)	BITSTRING	0	\$GF2UNCD	"B'00000010" INDICATE UNCONDITIONAL REQUEST
13	(D)	BITSTRING	0	\$GF2FMN	"B'00000001" INDICATE FREEMAIN
Comment					
MEMBER NAME --> \$GLW					
ROUTINE(S) ---> \$GETLOKW					
MACRO(S) ----> \$GETLOKW					
\$GETLOKW'S INLINE PARAMETER LIST					
End of Comment					
4	(4)	BITSTRING	1	\$GLWFLG1	\$GETLOKW FLAG 1
4	(4)	BITSTRING	0	\$GLW1WT	"B'10000000" WAIT=YES
Comment					
MEMBER NAME --> \$IBL					
ROUTINE(S) ---> \$IOTBLD IN HASC SRDS					
MACRO(S) ----> \$IOTBLD					
\$IOTBLD'S INLINE PARAMETER LIST					
End of Comment					
4	(4)	BITSTRING	1	\$IBFLAG1	\$IOTBLD OPTION FLAG 1
4	(4)	BITSTRING	0	\$IB1DPDB	"B'10000000" INDICATE TYPE=PDDB
4	(4)	BITSTRING	0	\$IB1DSPN	"B'01000000" INDICATE TYPE=SPIN

\$PARMLST Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	BITSTRING	0	\$IB1D2ND	"B'00100000" INDICATE TYPE=SECOND
4	(4)	BITSTRING	0	\$IB1DAUG	"B'00010000" Indicate SPIN=DAUGHTER
4	(4)	BITSTRING	0	\$IB1DSJI	"B'00001000" Indicate SJJOB provided
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
Comment					
MEMBER NAME --> \$ICL ROUTINE(S) ---> \$IOTCNT IN HASPNUC MACRO(S) -----> \$IOTCNT \$IOTCNT'S INLINE PARAMETER LIST					
End of Comment					
4	(4)	BITSTRING	1	\$ICFLAG1	\$IOTBLD OPTION FLAG 1
4	(4)	BITSTRING	0	\$IC1LKNO	"B'10000000" INDICATE LOCK=NO
4	(4)	BITSTRING	0	\$IC1LOCK	"B'01000000" INDICATE LOCK=YES
4	(4)	BITSTRING	0	\$IC1IOT	"B'00100000" IN STORAGE IOT ADDRESS IS SUPPLIED
4	(4)	BITSTRING	0	\$IC1JOE	"B'00010000" R0 contains addr of JOE
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
Comment					
MEMBER NAME --> \$JCN ROUTINE(S) ---> \$JCANR IN HASPCOMM MACRO(S) -----> \$JCAN \$JCAN'S INLINE PARAMETER LIST					
End of Comment					
4	(4)	BITSTRING	1	\$JCNFLG1	\$JCAN Flag
4	(4)	BITSTRING	0	\$JCN1PRO	"B'10000000" Output Is Protected
4	(4)	BITSTRING	0	\$JCN1TST	"B'01000000" ACTION=TEST
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
Comment					
MEMBER NAME --> \$#DISPRO ROUTINE(S) ---> \$#DISPRO in HASPJOS MACRO(S) -----> \$#DISPRO \$#DISPRO routine inline parameter list.					
End of Comment					
4	(4)	BITSTRING	1	\$#DSPFLG	\$#DISPRO parameter flag
4	(4)	BITSTRING	0	\$#DENF	"B'10000000" Create ENF
4	(4)	BITSTRING	0	\$#DIOT	"B'01000000" IOT address in R15
4	(4)	BITSTRING	0	\$#DPQE	"B'00100000" PQE address in R15
Comment					
MEMBER NAME --> \$#JWEL ROUTINE(S) ---> \$#JWEL in HASPJOS MACRO(S) -----> \$#JWEL \$#JWEL routine inline parameter list.					
End of Comment					
4	(4)	BITSTRING	1	\$#JWLFLG	\$#JWEL parameter flag
4	(4)	BITSTRING	0	\$#JLONG	"B'10000000" Long form of device number
4	(4)	BITSTRING	0	\$#JSERCH	"B'01000000" Search for existing JWEL
4	(4)	BITSTRING	0	\$#JPURGE	"B'00100000" Purge all JWELs for JOE
4	(4)	BITSTRING	0	\$#JADD	"B'00010000" Add a JWEL
4	(4)	BITSTRING	0	\$#JFORCE	"B'00001000" Force purge of JWEL chain
4	(4)	BITSTRING	0	\$#JCOND	"B'00000100" ADD or PURGE conditional
4	(4)	BITSTRING	0	\$#JALL	"B'00000010" Made SEARCH match all JWELs
4	(4)	BITSTRING	0	\$#JANY	"B'00000001" Made SEARCH find any JWEL
5	(5)	BITSTRING	1	\$#JWLFL2	Second \$#JWEL parameter flag

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
5	(5)	BITSTRING	0	\$\$JDETCH	"B'10000000" Detach JWEL chain
5	(5)	BITSTRING	0	\$\$JATTCH	"B'01000000" Attach JWEL chain
5	(5)	BITSTRING	0	\$\$JINIT	"B'00100000" INIT JWEL anchor
5	(5)	BITSTRING	0	\$\$JANCHR	"B'00010000" Determine JWEL anchor addr

Comment

MEMBER NAME --> \$\$PUT
 ROUTINE(S) ---> \$\$PUT in HASPJOS
 MACRO(S) -----> \$\$PUT
 \$\$PUT routine inline parameter list.

End of Comment

4	(4)	BITSTRING	1	\$\$PUTFLG	\$\$PUT parameter flag
4	(4)	BITSTRING	0	\$\$PENF	"B'10000000" Create ENF
4	(4)	BITSTRING	0	\$\$PIOT	"B'01000000" IOT address in R15
4	(4)	BITSTRING	0	\$\$PPQE	"B'00100000" PQE address in R15
4	(4)	BITSTRING	0	\$\$PJWEL	"B'00010000" Purge SAPI JWELs

Comment

MEMBER NAME --> \$LG
 ROUTINE(S) ---> \$LOGMSG IN HASPSSRV
 MACRO(S) -----> \$LOGMSG
 PLACING JOB RELATED MESSAGES INTO A JOB'S JOBLOG OR SYSMMSG
 DATA SET. NOTE PARAMETER LIST VARIES IN LENGTH IN ORDER
 TO PHYSICALLY CONTAIN THE REQUESTOR'S EBCDIC NAME. THE
 LENGTH OF THE NAME IS IN FIELD \$LG1TXTL.

End of Comment

4	(4)	BITSTRING	1	\$LGSUBP	SUBPOOL TO FREEMAIN MSGAREA
5	(5)	BITSTRING	1	\$LGFLAG1	FLAG BYTE
5	(5)	BITSTRING	0	\$LG1MFRE	"B'10000000" MSGFREE=YES WAS SPECIFIED
5	(5)	BITSTRING	0	\$LG1WTO	"B'01000000" WTO=YES WAS SPECIFIED
6	(6)	BITSTRING	1	\$LG1TXTL	MACHINE LENGTH (LENGTH-1) OF REQUESTOR NAME
7	(7)	CHARACTER	1	\$LGRQSTR	START OF REQUESTOR NAME

Comment

MEMBER NAME --> \$LV
 ROUTINE(S) ---> \$TQLEVEL in HASPXCF
 MACRO(S) -----> \$LEVEL

End of Comment

4	(4)	BITSTRING	1	\$LVFLAG1	Flag byte 1
4	(4)	BITSTRING	0	\$LV1QSE	"B'10000000" QSE fields provided
4	(4)	BITSTRING	0	\$LV1WAIT	"B'01000000" Wait for homogeneity
5	(5)	BITSTRING	1	\$LVQFLAG	QSE flag value to test
6	(6)	ADDRESS	2	\$LVQOFF	Offset of QSE flag

Comment

MEMBER NAME --> \$NATADD
 ROUTINE(S) ---> \$NATADD in HASPNATS
 MACRO(S) -----> \$NATADD
 Nodes Attached Table ADD routine's inline parameter list.

End of Comment

4	(4)	BITSTRING	1	\$NADSTAT	NAT queue to \$NATADD element to (see NATCSTAT)
5	(5)	BITSTRING	1	\$NADFLG1	\$NATADD parameter flag
5	(5)	BITSTRING	0	\$NAD1NAT	"B'10000000" Use prototype NAT element
5	(5)	BITSTRING	0	\$NAD1NCC	"B'01000000" Use prototype NCC record
5	(5)	BITSTRING	0	\$NAD1STA	"B'00100000" Add static connection
5	(5)	BITSTRING	0	\$NAD1CES	"B'00010000" Bypass CES TIMETOL check

\$PARMLST Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>MEMBER NAME --> \$NATGET ROUTINE(S) ---> \$NATGET in HASPNATS MACRO(S) ----> \$NATGET Nodes Attached Table GET routine's inline parameter list.</p>					
End of Comment					
4	(4)	BITSTRING	1	\$NGTSTAT	NAT queue to \$NATGET element from (see NATCSTAT)
5	(5)	BITSTRING	1	\$NGTFLG1	\$NATGET parameter flag
5	(5)	BITSTRING	0	\$NGT1NAT	"B'10000000" Use prototype NAT element
5	(5)	BITSTRING	0	\$NGT1NCC	"B'01000000" Use prototype NCC record
5	(5)	BITSTRING	0	\$NGT1TOK	"B'00100000" Token provided to routine
5	(5)	BITSTRING	0	\$NGT1FST	"B'00010000" Use Fast Path \$NATGET
Comment					
<p>MEMBER NAME --> \$NATMOD ROUTINE(S) ---> \$NATMOD in HASPNATS MACRO(S) ----> \$NATMOD Nodes Attached Table MODify routine's inline parameter list.</p>					
End of Comment					
4	(4)	BITSTRING	1	\$NMDSTAT	NAT queue to \$NATMOD element to (see NATCSTAT)
5	(5)	BITSTRING	1	\$NMDFLG1	\$NATMOD parameter flag 1
5	(5)	BITSTRING	0	\$NMD1NAT	"B'10000000" Use prototype NAT element
5	(5)	BITSTRING	0	\$NMD1NCC	"B'01000000" Use prototype NCC record
5	(5)	BITSTRING	0	\$NMD1FST	"B'00100000" Use Fast Path \$NATMOD
5	(5)	BITSTRING	0	\$NMD1STA	"B'00010000" Modify STATIC connection
5	(5)	BITSTRING	0	\$NMD1CES	"B'00001000" Bypass CES TIMETOL check
Comment					
<p>MEMBER NAME --> \$NATNOT ROUTINE(S) ---> \$NATNOT in HASPNATS MACRO(S) ----> \$NATNOT Nodes Attached Table NOTify routine's inline parameter list.</p>					
End of Comment					
4	(4)	BITSTRING	1	\$NNTFLG1	\$NATNOT parameter flag 1
4	(4)	BITSTRING	0	\$NNT1SET	"B'10000000" TYPE=SET or TESTSET
4	(4)	BITSTRING	0	\$NNT1TST	"B'01000000" TYPE=TEST or TESTSET
4	(4)	BITSTRING	0	\$NNT1NOT	"B'00100000" NOTIFIED=YES
4	(4)	BITSTRING	0	\$NNT1FST	"B'00010000" PATH=FAST
4	(4)	BITSTRING	0	\$NNT1MTR	"B'00001000" Update MASTER notify map
4	(4)	BITSTRING	0	\$NNT1MMA	"B'00000100" SCOPE=MAS was specified
Comment					
<p>MEMBER NAME --> \$NATREM ROUTINE(S) ---> \$NATREM in HASPNATS MACRO(S) ----> \$NATREM Nodes Attached Table REMove routine's inline parameter list.</p>					
End of Comment					
4	(4)	BITSTRING	1	\$NRMFLG1	\$NATREM parameter flag 1
4	(4)	BITSTRING	0	\$NRM1STA	"B'10000000" Remove static NAT
4	(4)	BITSTRING	0	\$NRM1ALL	"B'01000000" Remove all NATs

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>MEMBER NAME --> \$NHR ROUTINE(S) ---> NJEHDRCV in HASPNET MACRO(S) ----> \$NHDRCV Network Header Receive routine's inline parameter list.</p>					
End of Comment					
4	(4)	BITSTRING	1	\$NHRFLG1	\$NHDRCV parameter flag 1
4	(4)	BITSTRING	0	\$NHR1XIT	"B'10000000" Invoke exit 47 after recv
5	(5)	BITSTRING	1	\$NHRSRCB	SRCB of received header
Comment					
<p>MEMBER NAME --> \$NHW ROUTINE(S) ---> NJEHDRWR in HASPNET MACRO(S) ----> \$NHDWRT Network Header Write routine's inline parameter list.</p>					
End of Comment					
4	(4)	BITSTRING	1	\$NHWFLG1	\$NHDWRT parameter flag 1
4	(4)	BITSTRING	0	\$NHW1FRE	"B'10000000" Free header after write
4	(4)	BITSTRING	0	\$NHW1WAT	"B'01000000" Wait for write to complete
Comment					
<p>MEMBER NAME --> \$NHX ROUTINE(S) ---> NJEHDXMT in HASPNET MACRO(S) ----> \$NHDXMT Network Header Transmit routine's inline parameter list.</p>					
End of Comment					
4	(4)	BITSTRING	1	\$NHXFLG1	\$NHDXMT parameter flag 1
4	(4)	BITSTRING	0	\$NHX1FRE	"B'10000000" Free header after xmit
4	(4)	BITSTRING	0	\$NHX1XIT	"B'01000000" Invoke exit 46 before xmit
5	(5)	BITSTRING	1	\$NHXSRCB	SRCB of xmitted header
Comment					
<p>MEMBER NAME --> \$PBL ROUTINE(S) ---> \$PDBBLD IN HASCDSAL MACRO(S) ----> \$PDBBLD BUID AND INITIALIZE A Pddb ROUTINE'S INLINE PARAMETER LIST.</p>					
End of Comment					
4	(4)	BITSTRING	1	\$PBFLAG1	\$PDBBLD MACRO OPTION FLAGS FOR USER ENVIRONMENT
4	(4)	BITSTRING	0	\$PB1DPDB	"B'10000000" INDICATE TYPE=Pddb
4	(4)	BITSTRING	0	\$PB1DSPN	"B'01000000" INDICATE TYPE=SPIN
4	(4)	BITSTRING	0	\$PB1DAUG	"B'00100000" Indicate SPIN=DAUGHTER
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
Comment					
<p>MEMBER NAME --> \$PRG ROUTINE(S) ---> \$PURGER IN HASPTRAK MACRO(S) ----> \$PURGE PURGER routine inline parameter list</p>					
End of Comment					
4	(4)	BITSTRING	1	\$PRGFLG1	Flag byte
4	(4)	BITSTRING	0	\$PRG1Vfy	"B'10000000" SAF verification required

\$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$PSQ ROUTINE(S) ---> XPOSTXEQ in HASPXEQ MACRO(S) ----> \$POSTXEQ XPOSTXEQ routine inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$PSQFLG1	Flag byte
4	(4)	BITSTRING	0	\$PSQ1MAS	"B'10000000" Wake up all members of MAS
Comment					
MEMBER NAME --> \$PTA ROUTINE(S) ---> \$PUTABLE in HASPTABS MACRO(S) ----> \$PUTABLE \$PUTABLE routine inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$PTAFLG1	Flag byte
4	(4)	BITSTRING	0	\$PTA1MCT	"B'10000000" Offset of \$PAIR is in MCT
4	(4)	BITSTRING	0	\$PTA1UCT	"B'01000000" Offset of \$PAIR is in UCT
Comment					
MEMBER NAME --> \$QB ROUTINE(S) ---> \$QBUSY in HASPJQS MACRO(S) ----> \$QBUSY \$QBUSY routines inline parameter list.					
End of Comment					
4	(4)	BITSTRING	1	\$QBSYFLG	\$QBUSY parameter flag
4	(4)	BITSTRING	0	\$QBACTON	"B'10000000" Set the busy bits for this JQE on
4	(4)	BITSTRING	0	\$QBACTOF	"B'01000000" Set the busy bits for this JQE off
4	(4)	BITSTRING	0	\$QBTRACE	"B'00100000" Trace this call
4	(4)	BITSTRING	0	\$QBREAL	"B'00010000" Real JQE was passed
4	(4)	BITSTRING	0	\$QBALCT	"B'00001000" Don't alter xeq class count
4	(4)	BITSTRING	0	\$QBHVCAT	"B'00000100" CAT passed in by caller
4	(4)	BITSTRING	0	\$QBDODEV	"B'00000010" Set JQEDEV
Comment					
MEMBER NAME --> \$#B ROUTINE(S) ---> \$#BUSY in HASPJOS MACRO(S) ----> \$#BUSY \$#BUSY routines inline parameter list.					
End of Comment					
4	(4)	BITSTRING	1	\$#BSYFLG	\$#BUSY parameter flag
4	(4)	BITSTRING	0	\$#BACTON	"B'10000000" Set the busy bits for this JOE on
4	(4)	BITSTRING	0	\$#BACTOF	"B'01000000" Set the busy bits for this JOE off
4	(4)	BITSTRING	0	\$#BTRACE	"B'00100000" Trace this call
4	(4)	BITSTRING	0	\$#BREAL	"B'00010000" Real JOE was passed
Comment					
MEMBER NAME --> \$QRBDCHK ROUTINE(S) ---> \$QRBDCHK in HASPJQS MACRO(S) ----> \$QRBDCHK \$QRBDCHK routines inline parameter list.					
End of Comment					
4	(4)	BITSTRING	1	\$QRBDFLG	\$QRBDCHK parameter flag

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	BITSTRING	0	\$QRQNONE	"B'10000000" This JQE is currently not on a job queue
4	(4)	BITSTRING	0	\$QRQOTH	"B'01000000" This JQE is currently on an other queue
4	(4)	BITSTRING	0	\$QRQRBLD	"B'00100000" This JQE is currently on the rebuild queue

Comment

MEMBER NAME --> \$#RBDCHK
 ROUTINE(S) ---> \$#RBDCHK in HASPJOS
 MACRO(S) ----> \$#RBDCHK
 \$#RBDCHK routines inline parameter list.

End of Comment

4	(4)	BITSTRING	1	\$#RBDFLG	\$#RBDCHK parameter flag
4	(4)	BITSTRING	0	\$#RQNONE	"B'10000000" This JOE is currently not on an output queue
4	(4)	BITSTRING	0	\$#RQRBLD	"B'01000000" This JOE is currently on the rebuild queue
4	(4)	BITSTRING	0	\$#RQOTH	"B'00100000" This JOE is on one of the normal output queues

Comment

MEMBER NAME --> QJQEVER
 ROUTINE(S) ---> QJQEVER in HASPJQS
 MACRO(S) ----> None
 QJQEVER routine inline parameter list.

End of Comment

4	(4)	BITSTRING	1	\$QJVPFLG	QJQEVER parameter flag
4	(4)	BITSTRING	0	\$QJVALNF	"B'10000000" Validate that this is not a free JQE
4	(4)	BITSTRING	0	\$QJVRETC	"B'01000000" Validate JQE and return RC(do not abend)
4	(4)	BITSTRING	0	\$QJVNJQA	"B'00100000" Do not allow if JQA

Comment

MEMBER NAME --> \$QSUSE
 ROUTINE(S) ---> \$QSUSE in HASPNUC
 MACRO(S) ----> \$QSUSE
 Obtain JES2 queues parameter list
 Note: Update HASMPERF if this inline parameter list changes.

End of Comment

4	(4)	BITSTRING	1	\$QSUFLG1	\$QSUSE parameter flag
4	(4)	BITSTRING	0	\$QSU1LUR	"B'10000000" Passively wait for queues
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	\$QSUSECT	Control Section name
14	(E)	CHARACTER	8	\$QSUSEQF	Invoking seq number
14	(E)	X'16	0	\$QSUPLEN	** -PARMLIST" Length of this parm list

Comment

MEMBER NAME --> QTYPESET
 ROUTINE(S) ---> QTYPESET in HASPJQS
 MACRO(S) ----> None
 QTYPESET routine inline parameter list.

End of Comment

4	(4)	BITSTRING	1	\$QTYPEFLG	QTYPESET parameter flag
4	(4)	BITSTRING	0	\$QTYALTE	"B'10000000" Begin processing at the alternate spot (QTSTPRG)

\$PARMLST Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$#REP ROUTINE(S) ---> \$#REP in HASPJOS MACRO(S) ----> \$#REP \$#REP routine inline parameter list.					
End of Comment					
4	(4)	BITSTRING	1	\$\$REPFLG	\$\$REP parameter flag
4	(4)	BITSTRING	0	\$\$REPW	"B'10000000" Wait if JOT is full
4	(4)	BITSTRING	0	\$\$REPC	"B'01000000" Copy JWELs from orig JOE
Comment					
MEMBER NAME --> \$RET ROUTINE(S) ---> \$CRETRN IN HASCLINK \$RETURN IN HASPNUC FSMRETRN IN HASPFSSM MACRO(S) ----> \$RETURN (assembler) \$RETURNP (PL/X) COMMON RETURN SERVICE ROUTINE'S INLINE PARAMETER LIST.					
End of Comment					
4	(4)	BITSTRING	1	\$RETFLAG	\$RETURN MACRO OPTION FLAGS FOR USER & SUBTASK ENVIRONMENT
4	(4)	BITSTRING	0	\$RETPARM	"B'01000000" PARM=YES WAS SPECIFIED
4	(4)	BITSTRING	0	\$RETREG	"B'00001111" Register in save area with return address (if not R14)
Comment					
MEMBER NAME --> \$RQGT ROUTINE(S) ---> \$RQUEGET IN HASCRQUE MACRO(S) ----> \$RQUE \$RQUE 'GET' INLINE PARAMETER LIST.					
End of Comment					
4	(4)	BITSTRING	1	\$RQGTFL1	Flag byte
4	(4)	BITSTRING	0	\$RQGT1RC	"B'10000000" Recovery request
Comment					
MEMBER NAME --> \$RRA ROUTINE(S) ---> \$RROUTE IN HASPSERV MACRO(S) ----> \$RROUTE RROUTE AUTHORIZATION INLINE PARAMETER LIST.					
End of Comment					
4	(4)	BITSTRING	1	\$\$RAFLG1	\$\$RA FLAG BYTE
4	(4)	BITSTRING	0	\$\$RA1JOB	"B'10000000" RROUTE JOB REQUEST
Comment					
MEMBER NAME --> \$RTA ROUTINE(S) ---> \$RETABLE in HASPTABS MACRO(S) ----> \$RETABLE \$RETABLE routine inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$\$TAFLG1	Flag byte
4	(4)	BITSTRING	0	\$\$TA1MCT	"B'10000000" Offset of \$PAIR is in MCT
4	(4)	BITSTRING	0	\$\$TA1UCT	"B'01000000" Offset of \$PAIR is in UCT

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$SAV					
ROUTINE(S) ---> \$CSAVE IN HASCLINK					
\$GETSAVE IN HASPNUC					
FSMSAVE IN HASPFSSM					
MACRO(S) -----> \$SAVE (assembler)					
\$SAVEP (PL/X)					
COMMON SAVE SERVICE ROUTINE'S INLINE PARAMETER LIST.					
End of Comment					
4	(4)	BITSTRING	1	\$SAVFLAG	\$SAVE MACRO OPTION FLAGS FOR THE USER & SUBTASK ENVIRONMENT
4	(4)	BITSTRING	0	\$SAVTRC	"B'10000000" TRACE THIS SAVE
4	(4)	BITSTRING	0	\$SAVTRC	"B'01000000" TRE WAS PROVIDED
4	(4)	BITSTRING	0	\$SAVNRG	"B'00100000" REGS=NO WAS PROVIDED
4	(4)	BITSTRING	0	\$SAVARS	"B'00010000" SYSSTATE=AR at macro time
4	(4)	BITSTRING	0	\$SAVANY	"B'00001000" SYSSTATE=ANY at macro time
5	(5)	BITSTRING	1	\$SAVRESV	RESERVED FOR FUTURE USE
6	(6)	CHARACTER	8	\$SAVNAME	EBCDIC LABEL
Comment					
MEMBER NAME --> \$SCD					
ROUTINE(S) ---> SCANDIAG IN HASPCAN					
MACRO(S) -----> \$SCANDIA					
\$SCAN Diagnostic message routine					
End of Comment					
4	(4)	BITSTRING	1	\$SCDFLG1	\$SCANDIA MACRO OPTION FLAGS
4	(4)	BITSTRING	0	\$SCD1WAR	"B'10000000" TYPE=WARN message
Comment					
MEMBER NAME --> \$SF					
ROUTINE(S) ---> \$SJBFIN IN HASCSRJB					
MACRO(S) -----> \$SJBFIN					
SUBSYSTEM JOB BLOCK FIND ROUTINE'S INLINE PARAMETER LIST.					
End of Comment					
4	(4)	BITSTRING	1	\$SFFLAG1	\$SJBFIN MACRO OPTION FLAGS
4	(4)	BITSTRING	0	\$SF1LOJ	"B'10000000" FIND THE LIFE OF JOB SJB
4	(4)	BITSTRING	0	\$SF1SSIB	"B'01000000" FIND THE SSIB SJB
4	(4)	BITSTRING	0	\$SF1FRST	"B'00100000" FIND THE FIRST SJB FOR THE A.S.
4	(4)	BITSTRING	0	\$SF1LAST	"B'00010000" FIND THE LAST SJB FOR THE A.S.
4	(4)	BITSTRING	0	\$SF1ASID	"B'00001000" ASCB ASID PASSED IN R0
Comment					
MEMBER NAME --> \$SJF					
ROUTINE(S) ---> \$SJBFREE IN HASCSRJB					
MACRO(S) -----> \$SJBFREE					
CLEANUP SJB RELATED STORAGE ROUTINE INLINE PARAMETER LIST.					
End of Comment					
4	(4)	BITSTRING	1	\$SJFLAG1	\$SJBFREE MACRO OPTION FLAGS
4	(4)	BITSTRING	0	\$SJFNPVT	"B'10000000" PRIVATE STORAGE NOT AVAILBL

\$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$SIGIO ROUTINE(S) ---> \$SIGIO in HASCSRDS and HASPSPOL MACRO(S) -----> \$SIGIO Signature Record I/O parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$\$SIGFLG1	\$\$SIGIO parameter flag
4	(4)	BITSTRING	0	\$\$SIG1W	"B'10000000" Write Signature record
4	(4)	BITSTRING	0	\$\$SIG1R	"B'01000000" Read Signature record
4	(4)	BITSTRING	0	\$\$SIG1SKP	"B'00100000" Skip invalid extents
Comment					
MEMBER NAME --> \$SL ROUTINE(S) ---> \$\$SJBLOCK IN HASCSRJB MACRO(S) -----> \$\$SJBLOCK SUBSYSTEM JOB BLOCK LOCK ROUTINE'S INLINE PARAMETER LIST.					
End of Comment					
4	(4)	BITSTRING	1	\$\$SLFLAG1	\$\$SJBLOCK MACRO OPTION FLAGS
Comment					
EQU B'10000000' RESERVED EQU B'01000000' RESERVED					
End of Comment					
4	(4)	BITSTRING	0	\$\$SL1RETN	"B'00100000" RETURN TO CALLER IF SJB LOCK OWNER IS NON-DISPATCHABLE
4	(4)	BITSTRING	0	\$\$SL1WAIT	"B'00010000" RETURN TO CALLER IF SJB LOCK IS NOT AVAILABLE (RC=16)
Comment					
MEMBER NAME --> \$SU ROUTINE(S) ---> \$\$SJBUNLK in HASCSRJB MACRO(S) -----> \$\$SJBLOCK TYPE=FREE SJB Unlock routine's inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$\$SUFLAG1	\$\$SJBLOCK macro option flags
4	(4)	BITSTRING	0	\$\$SU1FREE	"B'10000000" FREESJB=YES, free the SJB after unlocking it
Comment					
MEMBER NAME --> \$SYMTT ROUTINE(S) ---> \$SYMTT in HASCSRDS MACRO(S) -----> none SYMREC creation for sniffer					
End of Comment					
4	(4)	BITSTRING	1	\$\$SYMTTF1	\$\$SYMTT parameter flag
4	(4)	X'1	0	\$\$SYM1SNF	"1" Trackgroup falsely thought to be unavailable.
4	(4)	X'2	0	\$\$SYM1ALT	"2" Trackgroup falsely thought to be available by \$STRACK
4	(4)	X'3	0	\$\$SYM1ALS	"3" Trackgroup falsely thought to be available by \$STRACK
4	(4)	X'4	0	\$\$SYM1UNA	"4" Trackgroup being purged not owned by purging job
4	(4)	X'5	0	\$\$SYM1BLO	"5" Trackgroup which was in BLOB returned to service

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$TGMSET ROUTINE(S) ---> \$TGMSET in HASPTRAK MACRO(S) ----> \$TGMSET \$TGMSET routine inline parameter list.					
End of Comment					
4	(4)	BITSTRING	1	\$TGFLAG	\$TGMSET parameter flag
4	(4)	BITSTRING	0	\$TGCNTYS	"B'10000000" COUNT=YES, Upd DAS counts
4	(4)	BITSTRING	0	\$TGTTTEST	"B'00100000" TYPE=TEST, Test bit only
4	(4)	BITSTRING	0	\$TGTPSET	"B'00010000" TYPE=SET, Set the bit only
4	(4)	X'30	0	\$TGTTSET	"\$TGTTTEST+\$TGTPSET" TYPE=TESTSET, Test and set
4	(4)	BITSTRING	0	\$TGQSYES	"B'00001000" QSUSE=YES, get the QSUSE
4	(4)	BITSTRING	0	\$TGSETON	"B'00000100" SET=ON Turn bit on in map
Comment					
MEMBER NAME --> \$#TJEV ROUTINE(S) ---> \$#TJEV in HASPJOS MACRO(S) ----> \$#TJEV \$#TJEV routine inline parameter list.					
End of Comment					
4	(4)	BITSTRING	1	\$#TJVFLG	\$#TJEV parameter flag
4	(4)	BITSTRING	0	\$#TADD	"B'10000000" Add JOE to exclusion vector
4	(4)	BITSTRING	0	\$#TSEARCH	"B'01000000" Search for JOE in excl list
4	(4)	BITSTRING	0	\$#TSEARCH	"B'00100000" Search for JOE in all lists
4	(4)	BITSTRING	0	\$#TPURGE	"B'00010000" Purge JOE from all lists
4	(4)	BITSTRING	0	\$#TMOVE	"B'00001000" Move excl bit to new JOE
Comment					
MEMBER NAME --> \$TRK ROUTINE(S) ---> \$TRACK IN HASPTRAK, \$STRAK IN HASCSRIC MACRO(S) ----> \$TRACK SPOOL SPACE ALLOCATION ROUTINE'S INLINE PARAMETER LIST.					
End of Comment					
4	(4)	BITSTRING	1	\$TRFLAG1	\$TRACK MACRO OPTION FLAGS
4	(4)	BITSTRING	0	\$TR1SJIO	"B'00000100" SJJOB provided
4	(4)	BITSTRING	0	\$TR1WRPM	"B'00000010" WRPRIM=NO, DON'T WRITE PRIMARY IOT
4	(4)	BITSTRING	0	\$TR1WTNO	"B'00000001" WAIT=NO, DO NOT WAIT FOR BLOBBING
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
Comment					
MEMBER NAME --> TRP ROUTINE(S) ---> \$TRACER IN HASCSRIC, HASPEVTL IN HASPEVTL MACRO(S) ----> \$TRACE JES2 EVENT TRACE LOG PROCESSOR INLINE PARAMETER LIST.					
End of Comment					
4	(4)	BITSTRING	1	TRPID	TRACE ID
5	(5)	BITSTRING	1	TRPFLAG1	ENVIRON/TYPER-MOVED TO TTETRPET
5	(5)	BITSTRING	0	TRP1USER	"B'10000000" ENVIRON=USER
5	(5)	BITSTRING	0	TRP1STSK	"B'01000000" ENVIRON=SUBTASK
5	(5)	BITSTRING	0	TRP1JES2	"B'00100000" ENVIRON=JES2
5	(5)	BITSTRING	0	TRP1FSS	"B'00010000" ENVIRON=FSS

\$PARMLST Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>EQU B'00001000' RESERVED FOR FUTURE USE EQU B'00000100' RESERVED FOR FUTURE USE EQU B'00000010' RESERVED FOR FUTURE USE</p>					
End of Comment					
5	(5)	BITSTRING	0	TRP1SPIN	"B'00000001" SPIN THE LOG AT CURRENT TABLE
6	(6)	CHARACTER	8	TRPNAME	TRACE SYMBOL
Comment					
<p>MEMBER NAME --> VALSCQJQ ROUTINE(S) ---> VALSCQJQ IN HASPRTAM MACRO(S) -----> Passes inline parameter list for \$SCQJQE validation</p>					
End of Comment					
4	(4)	ADDRESS	1	\$VSJFLAG	VALSCQJQ parameter flag
4	(4)	BITSTRING	0	\$RCPINIT	"B'10000000" Remote console processor initialization
Comment					
<p>MEMBER NAME --> \$WT ROUTINE(S) ---> \$WAIT IN HASPNUC MACRO(S) -----> \$WAIT, \$XECBSRV PCE WAIT MACRO INTERFACE TO THE JES2 DISPATCHER. Note: Update HASMPERF if this inline parameter list changes.</p>					
End of Comment					
4	(4)	BITSTRING	1	\$WTFLAG1	\$WAIT MACRO OPTION FLAGS
4	(4)	BITSTRING	0	\$WT1RES	"B'10000000" \$WAIT FOR A RESOURCE
4	(4)	BITSTRING	0	\$WT1XECB	"B'01000000" \$WAIT ON AN EXTENDED ECB
4	(4)	BITSTRING	0	\$WT1RETN	"B'00100000" \$WAIT IS TO RETURN WITHOUT WAITING (USED BY \$XECBSRV)
4	(4)	BITSTRING	0	\$WT1INHNT	"B'00010000" INHIBIT=NO specified on \$WAIT call (ie ignore \$WTINHBT)
4	(4)	BITSTRING	0	\$WT1MCLR	"B'00001000" PERFDATA monitor caller id
5	(5)	BITSTRING	1	\$WTINHBT	INHIBITOR (PREVENTS REDISPATCHING PCE BEFORE SPECIFIC \$POST)
6	(6)	CHARACTER	8	\$WTCSECT	Control Section name
14	(E)	CHARACTER	8	\$WTSEQF	Invoking seq number
22	(16)	ADDRESS	2	\$WTRESQO	RESOURCE QUEUE OFFSET OR 0
22	(16)	X'18	0	\$WTPLEN	** -PARMLIST" Length of this parm list
Comment					
<p>MEMBER NAME --> \$WS ROUTINE(S) ---> SRVWSCAN IN HASPSERV MACRO(S) -----> \$WSSCAN SCAN THE WS OPERAND AND CREATE A WORK SELECTION LIST PARAMETER LIST</p>					
End of Comment					
4	(4)	ADDRESS	1	\$WSLISTL	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>MEMBER NAME --> \$WSU ROUTINE(S) ---> SRVSETUP IN HASPSERV MACRO(S) ----> \$WSSETUP SCAN THE WS OPERAND AND CREATE A WORK SELECTION LIST PARAMETER LIST</p>					
End of Comment					
4	(4)	ADDRESS	1	\$VOLFLD	DEVICE VOLUME FIELD
5	(5)	ADDRESS	1	\$VOLNMFD	DEVICE VOLUME NUMBER FIELD
6	(6)	ADDRESS	1	\$WSFLGOF	Work selection flag offset
7	(7)	BITSTRING	1	\$WSTYPE	CB type passed
7	(7)	X' '	0	\$WSTUNK	"0" Unknown CB type
7	(7)	X'1 '	0	\$WSTWSP	"1" WSP was passed
Comment					
<p>MEMBER NAME --> \$WR ROUTINE(S) ---> \$WTOC or \$WTOR in HASPCON MACRO(S) ----> \$WTO JES2 Main task environment \$WTO inline parameter list. The code in HASPCON depends on this parm list being in this order.</p>					
End of Comment					
4	(4)	ADDRESS	1	\$WRPFLAG	WTO inline parm. flag byte
4	(4)	X'5 '	0	\$WREXEND	*** End of execute form parameter list
5	(5)	ADDRESS	1	\$WRTYPE	WTO type
6	(6)	ADDRESS	1	\$WRCLSPR	Class (high order 4 bits), Priority (low order 4 bits)
7	(7)	ADDRESS	1	\$WRROUTE	WTO Routing Information
8	(8)	ADDRESS	1	\$WRLEN	Message Length
8	(8)	X'9 '	0	\$WRSTEND	*** End of standard form parameter list
Comment					
<p>MEMBER NAME --> \$WT ROUTINE(S) ---> \$PREWTO IN HASCSRIC MACRO(S) ----> \$WTO USER AND SUBTASK ENVIRONMENT \$WTO INLINE PARAMETER LIST.</p>					
End of Comment					
4	(4)	ADDRESS	1	\$WTPFLAG	JES2 Parameter flag byte
5	(5)	ADDRESS	1	\$WTCLASS	JES2 DESCRIPTOR CODE
6	(6)	ADDRESS	1	\$WTROUTE	JES2 ROUTE CODE
Comment					
<p>\$WTO IN-LINE PARAMETER FLAGS \$WRPFLAG and \$WTPFLAG. For \$WTPFLAG only \$WTOJOB and \$WTODOMT are processed.</p>					
End of Comment					
6	(6)	BITSTRING	0	\$WTOSTDL	"B'10000000" STANDARD OR LIST FORM \$WTO, CMB TEMPLATE FOLLOWS DIRECTLY
6	(6)	BITSTRING	0	\$WTOCMBL	"B'01000000" MF=EX SPECIFIED (LONG CMB TMPL)
6	(6)	BITSTRING	0	\$WTOJOB	"B'00100000" JOB=YES SPECIFIED
6	(6)	BITSTRING	0	\$WTOWAIT	"B'00010000" WAIT=YES SPECIFIED
6	(6)	BITSTRING	0	\$WTOLNRO	"B'00001000" MESSAGE LENGTH IN R0 (BYTE 3)
6	(6)	BITSTRING	0	\$WTODOMT	"B'00000100" Delete outstanding action message if task terminates
6	(6)	BITSTRING	0	\$WTODMND	"B'00000010" Use \$GETCMB DEMANDCMB=YES if necessary

\$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>\$WRROUTE - Logical console definitions</p>					
End of Comment					
6	(6)	BITSTRING	0	\$LOG	"X'01" SYSTEM LOG CONSOLE
6	(6)	BITSTRING	0	\$ERR	"X'02" ERROR CONSOLE MCS ROUTING CODE=(10)
6	(6)	BITSTRING	0	\$UR	"X'04" UNIT RECORD OPERATIONS AREA MCS ROUTING CODE=(7)
6	(6)	BITSTRING	0	\$TP	"X'08" TELE-PROCESSING OPERATIONS MCS ROUTING CODE=(8)
6	(6)	BITSTRING	0	\$TAPE	"X'10" TAPE HANDLING OPERATIONS MCS ROUTING CODE=(3,4,5,6)
6	(6)	BITSTRING	0	\$MAIN	"X'20" CHIEF OPERATORS AREA MCS ROUTING CODE=(1,2)
6	(6)	BITSTRING	0	\$SEC	"X'40" SYSTEM SECURITY MCS ROUTING CODE=(9)
6	(6)	BITSTRING	0	\$SPARE1	"X'80" SPARE 1 MCS ROUTING CODE=(14)
6	(6)	BITSTRING	0	\$ALL	"X'7F" ALL UNRESERVED LOCAL CONS.
Comment					
<p>\$WTRROUTE - Logical console definitions for user or JES2 subtask environment. \$LOG EQU X'01' SYSTEM LOG CONSOLE (DEFINED ABOVE) \$ERR EQU X'02' ERROR CONSOLE (DEFINED ABOVE)</p>					
End of Comment					
6	(6)	BITSTRING	0	\$MCINFO	"X'04" MASTER CONSOLE INFORMATION
6	(6)	BITSTRING	0	\$PGINFO	"X'08" PROGRAMMER INFORMATION
Comment					
<p>\$WTCLASS or \$WRCLSPR Message Class Definitions - High order 4 bits. (Only those bits should be used to maintain network compatability due to this byte being part of the NJE architecture). In the main task, only \$DOMACT has meaning, which determines whether the the message is descriptor code 2 (when on) or 4 (when off). Priority - Low order 4 bits. Only used by \$WRCLSPR.</p>					
End of Comment					
6	(6)	BITSTRING	0	\$TRIVIA	"X'10" NON-ESSENTIAL MESSAGES
6	(6)	BITSTRING	0	\$NORMAL	"X'30" NORMAL MESSAGES
6	(6)	BITSTRING	0	\$JOBSTAT	"X'40" JOB STATUS MESSAGES
6	(6)	BITSTRING	0	\$ACTION	"X'50" MESSAGES REQUIRING OPERATOR ACTION
6	(6)	BITSTRING	0	\$ALWAYS	"X'70" MESSAGES WHICH SHOULD ALWAYS BE SENT
6	(6)	BITSTRING	0	\$DOMACT	"X'80" ACTION REQUIRING A \$DOM FLAG
6	(6)	X'1	0	\$LO	"1" LOW PRIORITY
6	(6)	X'4	0	\$ST	"4" STANDARD PRIORITY
6	(6)	X'7	0	\$HI	"7" HIGH PRIORITY
Comment					
<p>MEMBER NAME --> \$VWP ROUTINE(S) ---> VALWTOPL IN HASPCON MACRO(S) -----> PASSES THE MODULE NAME AND FUNCTION ID THRU THE INLINE PARAMETER LIST. FOR \$\$SYMREC GENERATION</p>					
End of Comment					
4	(4)	CHARACTER	8	\$VWPMODN	MODULE NAME PARAMETER 1

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
12	(C)	CHARACTER	8	\$VWPFUNC	FUNCTION ID PARAMETER 2
Comment					
MEMBER NAME --> \$XM ROUTINE(S) ---> \$XMPOST IN HASCSRIC MACRO(S) -----> \$XMPOST CROSS MEMORY POST SERVICE ROUTINE INLINE PARAMETER LIST					
End of Comment					
4	(4)	BITSTRING	1	\$XMFLAG1	FLAG 1
4	(4)	BITSTRING	0	\$XM1XMP	"B'10000000" CROSS MEMORY PLIST WAS PASSED
4	(4)	BITSTRING	0	\$XM1QUIK	"B'01000000" QUICK POSTING IS ALLOWED
4	(4)	BITSTRING	0	\$XM1COMP	"B'00100000" COMPLETION CODE WAS CODED
4	(4)	BITSTRING	0	\$XM1LPST	"B'00010000" Parm list mapping that enables lost POST detection being used

\$PARMLST Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$\$POFLG1	4		##TPURGE	4	10
\$\$PO1BRA	4	80	##TSERAN	4	20
\$\$PO1ELM	4	20	##TSERCH	4	40
\$\$PO1RUN	4	10	\$ACTION	6	50
\$\$PO1SYS	4	40	\$AEJFL1	4	
##BACTOF	4	40	\$AEJ1EM	4	40
##BACTON	4	80	\$AEJ1JT	4	80
##BREAL	4	10	\$ALL	6	7F
##BSYFLG	4		\$ALWAYS	6	70
##BTRACE	4	20	\$BTGBMTR	4	80
##DENF	4	80	\$BTGBTGM	4	40
##DIOT	4	40	\$BTGFLG1	4	
##DPQE	4	20	\$CBCKPTB	7	
##DSPFLG	4		\$CBCKPTF	C	
##JADD	4	10	\$CBIFLG1	4	
##JALL	4	2	\$CBIFLG2	5	
##JANCHR	5	10	\$CBSPOLP	A	
##JANY	4	1	\$CBSTORP	8	
##JATTCH	5	40	\$CBVERID	E	
##JCOND	4	4	\$CB1COND	4	1
##JDETC	5	80	\$CB1EXIT	4	40
##JFORCE	4	8	\$CB1FREE	4	4
##JINIT	5	20	\$CB1NOVF	4	20
##JLONG	4	80	\$CB1NSJB	4	10
##JPURGE	4	20	\$CB1SJIO	4	8
##JSERCH	4	40	\$CB1WAIT	4	2
##JWLFLG	4		\$CB2FSSM	5	20
##JWLFL2	5		\$CB2TWAT	5	40
##PENF	4	80	\$CB2WRIT	5	80
##PIOT	4	40	\$CFXFLG1	4	
##PJWEL	4	10	\$CFX1RSP	4	80
##PPQE	4	20	\$CKQRTN	4	
##PUTFLG	4		\$CPL1	4	
##RBDFLG	4		\$CPL1CDY	4	80
##REPC	4	40	\$CTKFLG1	5	
##REPFLG	4		\$CTKQUAL	4	
##REPW	4	80	\$CTK1CTK	5	8
##RQNONE	4	80	\$CTK1GCB	5	20
##RQOTH	4	20	\$CTK1IOT	5	80
##RQRBLD	4	40	\$CTK1JQE	5	40
##TADD	4	80	\$CTK1PQE	5	10
##TJVFLG	4		\$CWTOFLG	4	
##TMOVE	4	8	\$CWTOLST	4	40

\$PARMLST Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$CWTONVC	4	80	\$DILTJQE	4	1
\$CWTONWT	4	20	\$DILTYPE	4	
\$DGBACT	4		\$DILVERS	5	
\$DGBCAT	6	2	\$DJACKPT	0	10
\$DGBCB	6		\$DJACT	0	
\$DGBCKPT	4	3	\$DJAFET	0	4
\$DGBDYN	6	FF	\$DJAFETN	0	
\$DGBFLAG	5		\$DJAFLD	0	24
\$DGBFLG2	7		\$DJAFREE	0	18
\$DGBFREE	4	5	\$DJALOCK	0	8
\$DGBFTCH	4	1	\$DJAQLOK	0	20
\$DGBINT	6		\$DJAREFR	0	14
\$DGBJQE	6	1	\$DJARET	0	C
\$DGBNAME	5	10	\$DJASETA	0	1C
\$DGBNEXT	4	2	\$DJCHAIN	4	
\$DGBNRDD	5	1	\$DJCVER	3	1
\$DGBNUPD	5	2	\$DJFLAG2	1	
\$DGBQSUS	5	40	\$DJFLAG3	2	
\$DGBRETN	4	4	\$DJLEN	4	6
\$DGBSPEC	5	4	\$DJVERS	3	
\$DGBSTSP	4	6	\$DJ2CONF	1	8
\$DGBTNAM	8		\$DJ2DSRV	1	80
\$DGBTOKN	5	8	\$DJ2KEEP	1	20
\$DGBUPDT	5	20	\$DJ2NWAT	1	10
\$DGBWAIT	5	80	\$DJ2POST	1	4
\$DGBWSCQ	6	3	\$DJ2SPCL	1	40
\$DGB2CRE	7	80	\$DJ2UCON	1	2
\$DGB2PAD	7	20	\$DJ2URFR	1	1
\$DGB2UNK	7	40	\$DJ3#PSY	2	4
\$DGTFLG1	4		\$DJ3MAX	2	2
\$DGT1AQR	4	2	\$DJ3NUPD	2	10
\$DGT1AQS	4	4	\$DJ3QPSY	2	8
\$DGT1FET	4	80	\$DJ3READ	2	80
\$DGT1FTN	4	40	\$DJ3RELE	2	40
\$DGT1INT	4	8	\$DJ3WDEF	2	20
\$DGT1NUP	4	10	\$DOMACT	6	80
\$DGT1TYP	4	1	\$DSDFLG1	4	
\$DGT1UPD	4	20	\$DSTCHAR	4	80
\$DGWFLG1	4		\$DSTFLG1	4	
\$DGW1CKP	4	4	\$DSTFLG2	5	
\$DGW1CRE	4	2	\$DSTGNRC	4	20
\$DGW1FET	4	80	\$DSTNRP	4	8
\$DGW1FRE	4	8	\$DSTNSPR	4	1
\$DGW1FTN	4	40	\$DSTPRIM	4	4
\$DGW1NUP	4	10	\$DSTRDT	4	40
\$DGW1UPD	4	20	\$DSTUSER	4	2
\$DILCVER	5	1	\$DST1EXP	4	10
\$DILFLG1	6		\$DST2DFM	5	40
\$DILFLG2	7		\$DST2IGN	5	80
\$DILF1#P	6	1	\$DST2IGS	5	8
\$DILF1CL	6	80	\$DST2IPD	5	4
\$DILF1FL	6	10	\$DST2IPY	5	10
\$DILF1IM	6	40	\$DST2NUS	5	20
\$DILF1ND	6	4	\$DVFLG1	4	
\$DILF1PO	6	8	\$DVLENG	5	
\$DILF1QP	6	2	\$DV1JQE	4	80
\$DILF1WA	6	20	\$ERR	6	2
\$DILF2CK	7	10	\$ESTCRAT	4	80
\$DILF2FN	7	4	\$ESTDLET	4	40
\$DILF2FP	7	2	\$ESTFCN	4	
\$DILF2FT	7	1	\$ESTNBR	A	
\$DILF2PA	7	80	\$ESTRECX	6	
\$DILF2QS	7	40	\$ESTRTYA	C	
\$DILF2SP	7	20	\$FACMOSQ	C	4
\$DILIMME	8		\$FACSECT	4	

00010

\$PARMLST Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$FACSEQF	C		\$FMFLAG2	5	
\$FBFLAG1	4		\$FMSFLG1	4	
\$FBMCTAC	6	3	\$FMSPLEN	E	12
\$FBMCTAD	6	1	\$FMSSECT	6	
\$FBMCTAS	6	2	\$FMSSEQF	E	
\$FBMCTDC	6	5	\$FMS1BLN	4	40
\$FBMCTDS	6	4	\$FMS1CBL	4	20
\$FBMCTEB	6	6	\$FMS1IND	4	10
\$FBMCTEP	6	7	\$FMS1WID	4	80
\$FBMCTHX	6	8	\$FM1\$ERR	4	80
\$FBMCTKM	6	A	\$FM2ALL	5	FE
\$FBMCTOF	6	B	\$FM2FBF	5	8
\$FBMCTRH	6	9	\$FM2GBF	5	4
\$FBMCTSI	6	C	\$FM2HBF	5	10
\$FBMCTSR	6	D	\$FM2PBF	5	80
\$FBMCTYP	6		\$FM2PBX	5	40
\$FBMFLG1	4		\$FM2PROT	5	CE
\$FBMFLG2	5		\$FM2TMP	5	2
\$FBMPLFN	10	14	\$FM2UBF	5	20
\$FBMSECT	8		\$FPRFLG1	4	
\$FBMSEQF	10		\$FPRSECT	6	
\$FBM1ABA	4	1	\$FPRSEQF	E	
\$FBM1ABB	4	2	\$FPR1MLT	4	80
\$FBM1ADD	4	40	\$FREFLG1	4	
\$FBM1CNV	4	4	\$FRE1JQA	4	20
\$FBM1INT	4	80	\$FRE1NTR	4	40
\$FBM1LAS	4	20	\$FRE1NW	4	80
\$FBM1MFL	4	10	\$FSAMOSQ	C	4
\$FBM1TTB	4	8	\$FSASECT	4	
\$FBM2MTB	5	40	\$FSASEQF	C	
\$FBM2RES	5	80	\$FSTFLG1	4	
\$FBM2WID	5	20	\$FSTFLG2	5	
\$FBSTORP	6		\$FSTSECT	6	
\$FB1HOLD	4	20	\$FSTSEQF	E	
\$FB1PROT	4	80	\$FST1FRE	4	3
\$FDISECT	6		\$FST1GTC	4	2
\$FDISEQF	E		\$FST1GTU	4	1
\$FDITCHR	4	1	\$FST2CTM	5	20
\$FDITHEX	4	2	\$FST2CTS	5	40
\$FDITUSI	4	3	\$FST2FAD	5	80
\$FDITYPE	4		\$FST2PTM	5	8
\$FEVFLG1	4		\$FST2PTS	5	10
\$FEVSECT	8		\$FST2TAB	5	78
\$FEVSEQF	10		\$FUCFLG1	4	
\$FEVVER	6		\$FUC1UNP	4	80
\$FEV1CRE	4	80	\$GCFLAG1	4	
\$FGAFLG1	4		\$GCRSVRD	5	
\$FGAPLEN	E	12	\$GCSIZE	6	
\$FGASECT	6		\$GC1LPRM	4	80
\$FGASEQF	E		\$GFFLG1	A	
\$FGA1ACM	4	4	\$GFFLG2	D	
\$FGA1EYE	4	10	\$GFFLG3	4	
\$FGA1GNS	4	40	\$GFFLG4	5	
\$FGA1GTN	4	20	\$GFKEY	B	
\$FGA1LUP	4	80	\$GFLENV	6	
\$FGA1STD	4	E0	\$GF1SUBPL	C	
\$FGA1ZPM	4	8	\$GF1CHK0	A	8
\$FGFSECT	4		\$GF1OHOM	A	
\$FGFSEQF	C		\$GF1OPRI	A	1
\$FLEAPAR	16		\$GF1OSEC	A	2
\$FLEFLG1	4		\$GF1OSYS	A	3
\$FLESECT	6		\$GF1RS64	A	10
\$FLESEQF	E		\$GF2FMN	D	1
\$FLE1RC	4	80	\$GF2LC24	D	10
\$FMFLAG1	4		\$GF2LC31	D	20

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\$PARMLST Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$GF2PGB	D	4	\$NADFLG1	5	
\$GF2RS31	D	40	\$NADSTAT	4	
\$GF2UNCD	D	2	\$NAD1CES	5	10
\$GF3BUFR	4	40	\$NAD1NAT	5	80
\$GF3FREE	4	10	\$NAD1NCC	5	40
\$GF3HTCB	4	20	\$NAD1STA	5	20
\$GF3JTCB	4	4	\$NGTFLG1	5	
\$GF3LVR0	4	80	\$NGTSTAT	4	
\$GF3PSWK	4	1	\$NGT1FST	5	10
\$GF3TCBK	4	2	\$NGT1NAT	5	80
\$GF3TCBY	4	8	\$NGT1NCC	5	40
\$GF4NOLV	5	10	\$NGT1TOK	5	20
\$GF4SPR0	5	80	\$NHRFLG1	4	
\$GF4STOR	5	40	\$NHRSRCB	5	
\$GF4ZERO	5	20	\$NHR1XIT	4	80
\$GLWFLG1	4		\$NHWFLG1	4	
\$GLW1WT	4	80	\$NHW1FRE	4	80
\$GNHFLG1	4		\$NHW1WAT	4	40
\$GNH1WAT	4	80	\$NHXFLG1	4	
\$GTAFLG1	5		\$NHXSRCB	5	
\$GTAH1ST	5	80	\$NHX1FRE	4	80
\$GTATYPE	4		\$NHX1XIT	4	40
\$GTBFLG1	4		\$NMDFLG1	5	
\$GTBFTYP	5		\$NMDSTAT	4	
\$GTB1FIX	4	40	\$NMD1CES	5	8
\$GTB1LOW	4	10	\$NMD1FST	5	20
\$GTB1MUL	4	20	\$NMD1NAT	5	80
\$GTB1WAT	4	80	\$NMD1NCC	5	40
\$GTCFLG1	4		\$NMD1STA	5	10
\$GTC1DMC	4	40	\$NNTFLG1	4	
\$GTC1WAT	4	80	\$NNT1FST	4	10
\$GUCFLG1	4		\$NNT1MMA	4	4
\$GUC1CNT	4	80	\$NNT1MTR	4	8
\$GUC1UNT	4	40	\$NNT1NOT	4	20
\$HI	6	7	\$NNT1SET	4	80
\$IBFLAG1	4		\$NNT1TST	4	40
\$IB1DAUG	4	10	\$NORMAL	6	30
\$IB1DPDB	4	80	\$NRMFLG1	4	
\$IB1DSJI	4	8	\$NRM1ALL	4	40
\$IB1DSPN	4	40	\$NRM1STA	4	80
\$IB1D2ND	4	20	\$PBFLAG1	4	
\$ICFLAG1	4		\$PB1DAUG	4	20
\$IC1IOT	4	20	\$PB1DPDB	4	80
\$IC1JOE	4	10	\$PB1DSPN	4	40
\$IC1LKNO	4	80	\$PGINFO	6	8
\$IC1LOCK	4	40	\$PRGFLG1	4	
\$JCNFLG1	4		\$PRG1VFY	4	80
\$JCN1PRO	4	80	\$PSQFLG1	4	
\$JCN1TST	4	40	\$PSQ1MAS	4	80
\$JOBSTAT	6	40	\$PTAFLG1	4	
\$LGFLAG1	5		\$PTA1MCT	4	80
\$LGRQSTR	7		\$PTA1UCT	4	40
\$LGSUBP	4		\$QBACTOF	4	40
\$LG1MFRE	5	80	\$QBACTON	4	80
\$LG1TXTL	6		\$QBDODEV	4	2
\$LG1WTO	5	40	\$QBHVCAT	4	4
\$LO	6	1	\$QBNALCT	4	8
\$LOG	6	1	\$QBBREAL	4	10
\$LVFLAG1	4		\$QBSYFLG	4	
\$LVQFLAG	5		\$QBTRACE	4	20
\$LVQOFF	6		\$QJVALNF	4	80
\$LV1QSE	4	80	\$QJVNJQA	4	20
\$LV1WAIT	4	40	\$QJVPFLG	4	
\$MAIN	6	20	\$QJVRETC	4	40
\$MCINFO	6	4	\$QRBDFLG	4	

\$PARMLST Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$QRQNONE	4	80	\$TP	6	8
\$QRQOTH	4	40	\$TRFLAG1	4	
\$QRQRBLD	4	20	\$TRIVIA	6	10
\$QSUFLG1	4		\$TR1SJIO	4	4
\$QSUPLEN	E	16	\$TR1WRPM	4	2
\$QSUSECT	6		\$TR1WTNO	4	1
\$QSUSEQF	E		\$SUR	6	4
\$QSU1LUR	4	80	\$VOLFLD	4	
\$QTYALTE	4	80	\$VOLNMFD	5	
\$QTYPFLG	4		\$VSJFLAG	4	
\$RCPINIT	4	80	\$VWPFUNC	C	
\$RETFLAG	4		\$VWPMODN	4	
\$RETPARM	4	40	\$WRCLSPR	6	
\$RETREG	4	F	\$WREXEND	4	5
\$RQGTFL1	4		\$WRLEN	8	
\$RQGT1RC	4	80	\$WRPFLAG	4	
\$RRRAFLG1	4		\$WRRROUTE	7	
\$RRA1JOB	4	80	\$WRSTEND	8	9
\$RTAFLG1	4		\$WRTYPE	5	
\$RTA1MCT	4	80	\$WSFLGOF	6	
\$RTA1UCT	4	40	\$WSLISTL	4	
\$SAVANY	4	8	\$WSTUNK	7	
\$SAVARS	4	10	\$WSTWSP	7	1
\$SAVFLAG	4		\$WSTYPE	7	
\$SAVNAME	6		\$WTCLASS	5	
\$SAVNRG	4	20	\$WTCSECT	6	
\$SAVRESV	5		\$WTFLAG1	4	
\$SAVTRC	4	80	\$WTINHBT	5	
\$SAVTRE	4	40	\$WTOCMBL	6	40
\$SCDFLG1	4		\$WTODMND	6	2
\$SCD1WAR	4	80	\$WTODOMT	6	4
\$SEC	6	40	\$WTQJOBY	6	20
\$SFFLAG1	4		\$WTOLNR0	6	8
\$SF1ASID	4	8	\$WTOSTDL	6	80
\$SF1FRST	4	20	\$WTOWAIT	6	10
\$SF1LAST	4	10	\$WTPFLAG	4	
\$SF1LOJ	4	80	\$WTPLEN	16	18
\$SF1SSIB	4	40	\$WTRESQO	16	
\$SIGFLG1	4		\$WTRROUTE	6	
\$SIG1R	4	40	\$WTSEQF	E	
\$SIG1SKP	4	20	\$WT1INHN	4	10
\$SIG1W	4	80	\$WT1MCLR	4	8
\$SJFLAG1	4		\$WT1RES	4	80
\$SJFNPVT	4	80	\$WT1RETN	4	20
\$SLFLAG1	4		\$WT1XECB	4	40
\$SL1RETN	4	20	\$XMFLAG1	4	
\$SL1WAIT	4	10	\$XM1COMP	4	20
\$SPARE1	6	80	\$XM1LPST	4	10
\$ST	6	4	\$XM1QUIK	4	40
\$SUFLAG1	4		\$XM1XMP	4	80
\$SU1FREE	4	80	DSNRONLY	4	80
\$SYMETF1	4		DSNVALL	4	
\$SYM1ALS	4	3	EXITFLGS	C	
\$SYM1ALT	4	2	EXITFSS	C	8
\$SYM1BLO	4	5	EXITID	D	
\$SYM1SNF	4	1	EXITJES2	C	10
\$SYM1UNA	4	4	EXITLNG	F	C
\$TAPE	6	10	EXITMRC	E	
\$TGCNTYS	4	80	EXITNAME	4	
\$TGFLAG	4		EXITRSVD	F	
\$TGQSYES	4	8	EXITSTSK	C	20
\$TGSETON	4	4	EXITTR	C	80
\$TGTPSET	4	10	EXITUSER	C	40
\$TGTTTEST	4	20	PARMINST	0	
\$TGTTSET	4	30	PARMSTRT	4	

\$PARMLST Cross Reference

Name	Hex Offset	Hex Value
TRPFLAG1	5	
TRPID	4	
TRPNAME	6	
TRP1FSS	5	10
TRP1JES2	5	20
TRP1SPIN	5	1
TRP1STSK	5	40
TRP1USER	5	80

\$PCE Programming Interface information

Programming Interface information

\$PCE

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

- PCEPRE

End of Programming Interface information

\$PCE Heading Information

Common Name: JES2 Processor Control Element DSECT
Macro ID: \$PCE
DSECT Name: PCE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4

Storage Attributes: Subpool: 25
Key: 1
Residency: Virtual and real storage are anywhere, above or below 16M, in private storage of the JES2 address space.

Size: The length of a PCE is the length of the base PCE (defined by the expression, PCEWORK-PCE) plus the length of a variable length work area beginning at symbol PCEWORK.
The length of the work area depends on the type of PCE. These work areas and their lengths are defined in separate mapping macros and are extensions of the PCE DSECT. See the definitions for PCEID byte 2 in this macro (\$PCE) for the names of the work area mapping macros.
The overall length of the PCE is stored in field PCELENG.

Created by: The \$PCEDYN service. Most PCEs are created during JES2 initialization, others are created as needed (for example, PCEs for remote devices are created when a remote starts).

Pointed to by:

The \$PCEORG field of the \$HCT data area points to a chain containing all PCEs. This is a double threaded chain (see PCEPREV and PCENEXT below).

The \$PCELAST field of the \$HCT data area points to the last PCE on the \$PCEORG chain.

The PCENEXT and PCEPREV fields of the \$PCE data area points to the next/previous PCE on the \$PCEORG chain.

The \$CURPCE field of the \$HCT data area points to the PCE currently dispatched by the JES2 dispatcher. \$CURPCE is set to zero when a PCE gives up control with a \$WAIT.

The \$READY field of the \$HCT data area is the head of a circular queue of PCEs ready to be dispatched by the JES2 dispatcher. \$READYF (forward chain pointer) and \$READYL (backward chain pointer) are defined at the \$READY location. The PCEs on the queue are chained through the PCEPCEA (forward) and PCEPCEB (backward) fields. The queue head itself has a virtual origin in \$HCT at the offset defined by the expression \$READY-(PCEPCEA-PCE) so that the queue head is a dummy PCE called "PCE zero". When the ready queue is empty (that is, no PCEs are ready to be dispatched), the forward and backward pointers point to PCE zero. When the queue is not empty, \$READYF either points to a currently dispatched PCE or \$READYF points to the next PCE to be dispatched (\$CURPCE is zero).

The \$DRQUES field of the \$HCT data area points to the JES2 dispatcher resource wait queues, a table of double-word queue heads ordered by resource number. These queues are similar to the ready queue (above), e.g., a queue is empty when it points to PCE zero.

PCEPCEA and PCEPCEB fields of the \$PCE data area are used to chain PCEs on the ready queue or resource wait queues. A PCE is waiting for a specific \$POST when these fields point to the PCE itself.

DCTPCE field of the \$DCT data area.

XECBPCE field of the \$XECB data area.

In addition to the pointer fields described here, the PCE work area mapping macros describe additional pointers specific to the PCE type(s) of the work areas.

Serialization:

Normal PCE dispatch serialization

Function:

The Processor Control Element (PCE) represents an instance of a "process" running under the control of the JES2 main task. The JES2 main task runs under a single TCB that is sub-dispatched by the JES2 dispatcher. The JES2 dispatcher uses the PCE as its dispatchable unit.

\$PCE Map

There are one or more PCEs for each JES2 processor type ID, as defined by the second byte of the PCEID field. Each of the ID types has a mapping macro that defines an extension to the PCE DSECT that begins at field PCEWORK. The names of the extension macros are given with the PCExxxID symbol definitions.

PCEs are related to JES2 devices in the following ways:

For non device related PCEs, PCEDCT is zero and no DCTPCE fields point to the PCE.

For a PCE that controls a single device, PCEDCT points to the Device Control Table (DCT) of the device the PCE manages.

For a PCE that controls multiple devices, PCEDCT is zero, but the DCTPCE field points to the PCE in each Device Control Table (DCT) that the PCE manages.

\$PCE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Processor Control Element
0	(0)	CHARACTER	4	PCEEYE (0)	Eye catcher
0	(0)	BITSTRING	1	(0)	\$SAVE area (see \$PSV)
0	(0)	X'4C 00004'	0	PCELPSV	"PSVLABAD-PSV+PCE,4,C'A" Last \$SAVE area
0	(0)	X'59 00001'	0	PCEXITID	"PSVEXID-PSV+PCE,1,C'F" Exit ID last invoked
0	(0)	X'48 00004'	0	PCEDOM68	"PSVADDR-PSV+PCE,4,C'F" Domid for \$HASP068
92	(5C)	ADDRESS	4	PCEPREV	ADDRESS OF PREVIOUS PCE
96	(60)	ADDRESS	4	PCENEXT	ADDRESS OF NEXT PCE
100	(64)	ADDRESS	4	PCEPCEA	NEXT READY/WAITING PCE
104	(68)	ADDRESS	4	PCEPCEB	PREVIOUS READY/WAITING PCE
108	(6C)	ADDRESS	4	PCEERA	ADDR OF ERA FOR ERROR FROM WHICH PCE IS ATTEMPTING TO RECOVER
112	(70)	ADDRESS	4	PCEPRE	ADDRESS OF NEWEST PRE
116	(74)	BITSTRING	1	PCEEWF	PROCESSOR EVENT WAIT FIELD
117	(75)	BITSTRING	1	PCEFLAGS	PROCESSOR FLAGS
117	(75)	BITSTRING	0	PCETRACE	"B'10000000" Processor eligible for tracing
117	(75)	BITSTRING	0	PCEDSPXP	"B'01000000" Processor permanently exempt from non-dispatchability
117	(75)	BITSTRING	0	PCEDSPXT	"B'00100000" Processor temporarily exempt from non-dispatchability
117	(75)	BITSTRING	0	PCENWIOP	"B'00010000" Implicit \$WAITs in I/O processing should be prohibited (currently used only by \$IOERROR)
117	(75)	BITSTRING	0	PCETRPSF	"B'00001000" Short \$TRACE requested
117	(75)	BITSTRING	0	PCETRLDS	"B'00000100" Relds indicator
117	(75)	BITSTRING	0	PCEPRIO	"B'00000010" High priority pce
117	(75)	BITSTRING	0	PCEREQIR	"B'00000001" PCE is required (terminate JES2 if PCE abends).
118	(76)	BITSTRING	1	PCEFLAG2	More PCE flags
118	(76)	BITSTRING	0	PCE2ENDD	"B'10000000" PCE has been terminated & will never be dispatched
118	(76)	BITSTRING	0	PCE2EBUF	"B'01000000" Emergency buffers allowed
118	(76)	BITSTRING	0	PCE2EVNT	"B'00100000" An exception event has occurred for PCE this dispatcher cycle
118	(76)	BITSTRING	0	PCE2WLOK	"B'00010000" PCE allowed to get warm start lock
119	(77)	BITSTRING	1	PCEFLGCS	PCE 'compare-and-swap' flag Flags in this byte may be manipulated by subtasks and therefore must use CS logic (OIL and NIL) to set/reset the bits.
119	(77)	BITSTRING	0	PCEGEMOK	"B'10000000" PCE is allowed to obtain emergency CMBs
119	(77)	BITSTRING	0	PCECEMER	"B'01000000" PCE currently owns an emergency CMB
120	(78)	SIGNED	2	PCENDSPC	NON-DISPATCHABILITY COUNT - IF NON-ZERO PROCESSOR NOT DISPATCHED UNLESS EXEMPT VIA PCEDSPXP/XT

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
122	(7A)	SIGNED	2	PCEID	PROCESSOR TYPE
124	(7C)	SIGNED	4	PCEUSER0	RESERVED FOR USER
128	(80)	SIGNED	4	PCEUSER1	RESERVED FOR USER
132	(84)	SIGNED	4		Reserved for future use
136	(88)	DBL WORD	8	PCEWTTIM	TIME THIS PCE \$WAIT-ED

Comment

NOTE THAT THE FOLLOWING FIELDS (THROUGH PCEDEVTP) MUST CORRESPOND TO THE DCT FIELDS (THROUGH DCTDEVTP)

End of Comment

144	(90)	SIGNED	4	(0)	
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Comment

ORG -(DCTPCE-DCT) ESTABLISH THE PCEDADCT

End of Comment

140	(8C)	SIGNED	4	PCEDADCT (0)	USING STORAGE FOR THE DCT FIELDS NOT IN A DA DCT
144	(90)	ADDRESS	4	PCEDCTPC	DA DCT - DCTPCE
148	(94)	SIGNED	4	PCEDCTFL	DCTSTAT-DCTFLAGS-DCTFLAG2
152	(98)	ADDRESS	4	PCEBUFAD	BUFFER ADDRESS FOR \$EXCP
156	(9C)	BITSTRING	4	PCSEEEK	TRACK ADDRESS FOR \$EXCP
160	(A0)	ADDRESS	4	PCEIOEWF	PCE WITH EWF TO POST OR EXIT ADDRESS
164	(A4)	SIGNED	2	PCEBUFCN	Active buffer count
166	(A6)	BITSTRING	1	PCEDEVTP	DA DCT FLAGS FOR \$EXCP
		....		PCEDARD	"B'00000000" Direct access read request
166	(A6)	BITSTRING	0	PCEDAWR	"B'00000001" Direct access write request
167	(A7)	BITSTRING	1		Reserved for future use
167	(A7)	X'18	0	PCEDALEN	**"-PCEDCTPC" Length of DA DCT in PCE
168	(A8)	SIGNED	2	PCELENG	PCE LENGTH
170	(AA)	ADDRESS	1	PCEROLOQ	Holding area for JQE/JOE 'prior' queue type
171	(AB)	SIGNED	1	PCSESEQ	PCE sequence number
172	(AC)	ADDRESS	4	PCEDCT	ADDRESS OF DCT (IF ANY)
176	(B0)	ADDRESS	4	PCEJQE	ADDRESS OF JQE (IF ANY)
180	(B4)	ADDRESS	4	PCEPTAB	Addr of PCETAB
184	(B8)	ADDRESS	4	PCEFSACB	ADDRESS OF FSACB, IF ANY
188	(BC)	ADDRESS	4	PCEWAVE	ADDRESS OF WAVE (IF ANY)
192	(C0)	ADDRESS	4	PCENTITY	ADR OF ENTITY AREA (IF ANY)
196	(C4)	ADDRESS	4	PCECONCT	MLWTO Connect ID
200	(C8)	ADDRESS	4	PCEACTCT	PCE active count
204	(CC)	SIGNED	4		Reserved for future use
208	(D0)	ADDRESS	4	PCEWORKA	ADDRESS OF PCE WORK AREA
216	(D8)	DBL WORD	8	PCEWORK (0)	VARIABLE LENGTH PROCESSOR WORK AREA

Comment

PCEID - BYTE1

End of Comment

		....		PCENODEV	"X'00" PCEID BYTE1 = 0 INDICATES NON- DEVICE PROCESSOR
216	(D8)	BITSTRING	0	PCELCLID	"X'01" LOCAL SPECIAL PCE ID
216	(D8)	BITSTRING	0	PCERJEID	"X'02" REMOTE SPECIAL PCE ID
216	(D8)	BITSTRING	0	PCENJEID	"X'04" NETWORK SPECIAL PCE ID, INDICATES NJE OR XFR JT/JR/ST/SR
216	(D8)	BITSTRING	0	PCEINRID	"X'08" INTERNAL SPECIAL PCE ID
216	(D8)	BITSTRING	0	PCEPRSID	"X'80" PRINT SPECIAL PCE ID
216	(D8)	BITSTRING	0	PCEPUSID	"X'40" PUNCH SPECIAL PCE ID
216	(D8)	BITSTRING	0	PCEXFRID	"X'20" XFR SPECIAL PCE ID

\$PCE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>PCEID - BYTE2 (UNIQUE PCE ID) - HASP DEFINITIONS HASP PCE IDS ARE ASSIGNED FROM 1 AND INCREASE. USER PCE IDS PCE IDS SHOULD BE ASSIGNED FROM 255 AND DECREASE. EACH PCE TYPE IS DEFINED IN THE HASP OR USER PCE TABLE, WITH POSSIBLY MULTIPLE ENTRIES FOR EACH UNIQUE PCE ID (WITH DIFFERENT VALUES FOR PCEID BYTE1).</p> <p style="margin-left: 40px;">Work Area Macro Descriptive name -----</p>					
End of Comment					
216	(D8)	X'1	'	0	PCERDRID "1" \$RDRWORK - Input Services
216	(D8)	X'2	'	0	PCEASYID "2" \$ASYWORK - Asynchronous I/O
216	(D8)	X'3	'	0	PCECNVID "3" \$CNVWORK - Converter
216	(D8)	X'4	'	0	PCEXEQID "4" \$XEQWORK - Execution
216	(D8)	X'5	'	0	PCEPSOID "5" \$PSOWORK - Process SYSOUT
216	(D8)	X'6	'	0	PCEOUTID "6" \$OUTWORK - Output
216	(D8)	X'7	'	0	PCEPRTID "7" \$PPPWORK - Print \$FSSWORK - FSS Print Support
216	(D8)	X'8	'	0	PCEPUNID "8" \$PPPWORK - Punch
216	(D8)	X'9	'	0	PCEPRGID "9" \$PRGWORK - Purge
216	(D8)	X'A	'	0	PCECONID "10" \$COMWORK - Command
216	(D8)	X'B	'	0	PCEMLMID "11" \$MLMWORK - Multi-leaving Line Mgr
216	(D8)	X'C	'	0	PCETIMID "12" \$TIMWORK - STIMER/TTIMER
216	(D8)	X'D	'	0	PCECKPID "13" \$CKPWORK - Checkpoint
216	(D8)	X'E	'	0	PCEJPAID "14" \$JPAWORK - Priority Aging
216	(D8)	X'F	'	0	PCEWRMID "15" \$WARMWRK - Warm Start
216	(D8)	X'10	'	0	PCENJTID "16" \$NJTWORK - NJE Job Transmitter
216	(D8)	X'11	'	0	PCENJRID "17" \$RDRWORK - NJE Job Receiver
216	(D8)	X'12	'	0	PCENSTID "18" \$NSTWORK - NJE SYSOUT Transmitter
216	(D8)	X'13	'	0	PCENSRID "19" \$NSRWORK - NJE SYSOUT Receiver
216	(D8)	X'14	'	0	PCENPMID "20" \$NPMWORK - NJE Path Manager
216	(D8)	X'15	'	0	PCERCPIID "21" \$RCPWORK - Remote Console
216	(D8)	X'16	'	0	PCETEXID "22" \$TEXWORK - Time Excession Monitor
216	(D8)	X'17	'	0	PCEINTID "23" \$CIRWORK - Initialization
216	(D8)	X'18	'	0	PCEVTIID "24" \$TLGWORK - Event Trace Log
216	(D8)	X'19	'	0	PCEXFMIID "25" \$XFMWORK - SPOOL Transfer I/O Mgr
216	(D8)	X'1A	'	0	PCESPMID "26" \$SPMWORK - SPOOL Manager
216	(D8)	X'1B	'	0	PCENRRID "27" \$RDRWORK - NJE Route Receiver
216	(D8)	X'1C	'	0	PCENRTID "28" \$NJTWORK - NJE Route Transmitter
216	(D8)	X'1D	'	0	PCENSFID "29" \$SNFWORK - SPOOL sniffer
216	(D8)	X'1E	'	0	PCERESID "30" \$RESWORK - Resource Manager
216	(D8)	X'1F	'	0	PCESTCID "31" \$STCWORK - STATUS/CANCEL
216	(D8)	X'20	'	0	PCESPNIID "32" \$SPNWORK - Spin Services
216	(D8)	X'21	'	0	PCESFSID "33" \$SFRWORK - Scheduler Services
216	(D8)	X'22	'	0	PCEOPAID "34" \$OPAWORK - Output Priority Aging
216	(D8)	X'23	'	0	PCEFCLID "35" \$FCLWORK - FSS Cleanup on EOM
216	(D8)	X'24	'	0	PCEXCFID "36" \$XPWORK - Coupling
216	(D8)	X'25	'	0	PCEJCMID "37" \$JCMWORK - Job Command Processor
216	(D8)	X'26	'	0	PCEARMID "38" \$ARMWORK - ARM support processor
216	(D8)	X'27	'	0	PCEXCMID "39" \$XCMWORK - XCF Command Processor
216	(D8)	X'28	'	0	PCESPIID "40" \$SPIWORK - Sysout API Processor
216	(D8)	X'29	'	0	PCEILIID "41" \$DILWORK - 'Do It Later' processor
216	(D8)	X'2A	'	0	PCEENFID "42" \$ENFWORK - ENF LISTEN processor
216	(D8)	X'2B	'	0	PCEALIID "43" \$DILWORK - Acquire lock & cleanup
216	(D8)	X'2C	'	0	PCEMSCID "44" \$MSCWORK - Miscellaneous processor

\$PCE Cross Reference

Name	Hex Offset	Hex Value		Name	Hex Offset	Hex Value	
PCEACTCT	C8			PCEPREV	5C		
PCEALIID	D8	2B		PCEPRGID	D8	9	
PCEARMID	D8	26		PCEPRIO	75	2	
PCEASYID	D8	2		PCEPRSID	D8	80	
PCEBUFAD	98			PCEPRTID	D8	7	
PCEBUFNCN	A4			PCEPSOID	D8	5	
PCECEMER	77	40		PCEPTAB	B4		
PCECKPID	D8	D		PCEPUNID	D8	8	
PCECNVID	D8	3		PCEPUSID	D8	40	
PCECONCT	C4			PCERCPID	D8	15	
PCECONID	D8	A		PCERDRID	D8	1	
PCEDADCT	8C			PCEREQIR	75	1	
PCEDALEN	A7	18		PCERESID	D8	1E	
PCEDARD	A6			PCERJEID	D8	2	
PCEDAWR	A6	1		PCEROLOQ	AA		
PCEDCT	AC			PCESEEK	9C		
PCEDCTFL	94			PCESEQ	AB		
PCEDCTPC	90			PCESFSID	D8	21	
PCEDEVTP	A6			PCESNFID	D8	1D	
PCEDILID	D8	29		PCESPIID	D8	28	
PCEDOM68	0	48	00004	PCESPMID	D8	1A	
PCEDSPXP	75	40		PCESPNID	D8	20	
PCEDSPXT	75	20		PCESTCID	D8	1F	
PCEENFID	D8	2A		PCETEXID	D8	16	
PCEERA	6C			PCETIMID	D8	C	
PCEEWF	74			PCETRACE	75	80	
PCEEYE	0			PCETRLDS	75	4	
PCEFLCID	D8	23		PCETRPSF	75	8	
PCEFLAGS	75			PCEUSER0	7C		
PCEFLAG2	76			PCEUSER1	80		
PCEFLGCS	77			PCEVTLID	D8	18	
PCEFSACB	B8			PCEWAVE	BC		
PCEGEMOK	77	80		PCEWORK	D8		
PCEID	7A			PCEWORKA	D0		
PCEINRID	D8	8		PCEWRMID	D8	F	
PCEINTID	D8	17		PCEWTTIM	88		
PCEIOEWF	A0			PCEXCFID	D8	24	
PCEJCMID	D8	25		PCEXCMID	D8	27	
PCEJPAID	D8	E		PCEXEQID	D8	4	
PCEJQE	B0			PCEXFMID	D8	19	
PCELCLID	D8	1		PCEXFRID	D8	20	
PCELENG	A8			PCEXITID	0	59	00001
PCELPSV	0	4C	00004	PCE2EBUF	76	40	
PCEMLMID	D8	B		PCE2ENDD	76	80	
PCEMSCID	D8	2C		PCE2EVNT	76	20	
PCENDSPC	78			PCE2WLOK	76	10	
PCENEXT	60						
PCENJEID	D8	4					
PCENJRID	D8	11					
PCENJTID	D8	10					
PCENODEV	D8						
PCENPMID	D8	14					
PCENRRID	D8	1B					
PCENRTID	D8	1C					
PCENSRID	D8	13					
PCENSTID	D8	12					
PCENTITY	C0						
PCENWIOP	75	10					
PCEOPAID	D8	22					
PCEOUTID	D8	6					
PCEPCEA	64						
PCEPCEB	68						
PCEPRE	70						

\$PCE Cross Reference

\$PCT Programming Interface information

Programming Interface information

\$PCT

End of Programming Interface information

\$PCT Heading Information

Common Name: Path Manager Control Table
Macro ID: \$PCT
DSECT Name: PCT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'PCT '
 Offset: PCTID-PCT
 Length: 4

Storage Attributes: Subpool: 0
 Key: 1
 Residency: Virtual and real storage are anywhere (above or below 16M) in the private storage of the JES2 address space.

Size: See PCTLEN
Created by: Routine IRSETUP during JES2 initialization
Pointed to by: \$PCT field of the \$HCT data area
Serialization: Most fields require only JES2 main task serialization. However, some fields also require serialization with a general purpose subtask if it is possible to affect the field while a "full path" analysis is in progress.

Function: Contains the main parameters for, and anchors the work queues for, the JES2 network path manager.

\$PCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCT	
0	(0)	CHARACTER	4	PCTID	PCT eyecatcher
4	(4)	ADDRESS	1	PCTVER	PCT version number
4	(4)	X'2 '	0	PCTVERN	"2" PCT version
5	(5)	ADDRESS	1	PCTFLAG1	NPM process control flags
5	(5)	BITSTRING	0	PCT1PATH	"B'10000000" Full path required
5	(5)	BITSTRING	0	PCT1FPPN	"B'01000000" Full path in progress
5	(5)	BITSTRING	0	PCT1NTUP	"B'00100000" A NAT update has occurred
5	(5)	BITSTRING	0	PCT1NOT	"B'00010000" Notify required
5	(5)	BITSTRING	0	PCT1NERR	"B'00001000" NAT error detected
5	(5)	BITSTRING	0	PCT1NREC	"B'00000100" NRECEIVE in progress
6	(6)	ADDRESS	1	PCTFLAG2	Flags
6	(6)	BITSTRING	0	PCT2NSUB	"B'10000000" NSETSUBS recovery is in progress
7	(7)	BITSTRING	5		Reserved for future use
12	(C)	ADDRESS	4	PCTPATHS	NPMNITPs used by full path
16	(10)	ADDRESS	4	PCTWORKQ	Queue of nodes for full path to process
20	(14)	ADDRESS	4	PCTNATAH	Ptr to head of active NAT queue
24	(18)	ADDRESS	4	PCTNATAT	Ptr to tail of active NAT queue
28	(1C)	ADDRESS	4	PCTNATUH	Ptr to head of unconnected NAT que
32	(20)	ADDRESS	4	PCTNATUT	Ptr to tail of unconnected NAT que
36	(24)	ADDRESS	4	PCTNATHH	Ptr to head of held NAT queue
40	(28)	ADDRESS	4	PCTNATHT	Ptr to tail of held NAT queue
44	(2C)	ADDRESS	4	PCTNATNH	Head of temp ACTIVE NAT que
48	(30)	ADDRESS	4	PCTNATNT	Tail of temp ACTIVE NAT que
48	(30)	X'14 00020'	0	PCTNATQS	"PCTNATAH,*-PCTNATAH" All NAT queue heads/tails
52	(34)	ADDRESS	4	PCTNTQUQ	Unprocessed NTQ chain
56	(38)	ADDRESS	4	PCTNTQPQ	Processed NTQ chain
60	(3C)	ADDRESS	4	PCTRESPQ	Response queue anchor
64	(40)	ADDRESS	4	PCTACTL	Active net line DCTs anchor
68	(44)	ADDRESS	4	PCTRSTL	DCT line restart queue head
72	(48)	ADDRESS	4	PCTRSTN	DCT NJE restart queue head
76	(4C)	ADDRESS	4	PCTINQ	BSC input buffer queue anchor
80	(50)	ADDRESS	4	PCTVINQ	VTAM input buffer queue anchor

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
84	(54)	ADDRESS	4	PCTMASDN	MAS line drain queue
88	(58)	ADDRESS	4	PCTPRPIQ	I/J across MAS pending DCT
92	(5C)	SIGNED	2	PCTLNENM	Total number of lines that can do NJE
94	(5E)	SIGNED	2	PCTMAPLN	Length of notify maps
96	(60)	ADDRESS	4	PCTMINX	Master notify map anchor
100	(64)	ADDRESS	4	PCTMINXM	MAS master notify map addr
104	(68)	ADDRESS	4	PCTWINX	Work notify map anchor
108	(6C)	ADDRESS	4	PCTMAPQ	Queue of available notify maps
112	(70)	SIGNED	4	PCTTTOL	TOD tolerance for connections
112	(70)	X'80	0	PCTTTOLD	"1440*60" Default TOD tolerance
116	(74)	ADDRESS	4	PCTNSAAQ	Active net subnet ct head
120	(78)	ADDRESS	4		Reserved for future use

Comment

Addresses of MAS line DCTs for Nodal SPOOLing

End of Comment

124	(7C)	SIGNED	4	(0)	
124	(7C)	SIGNED	4	PCTDCT1 (0)	MAS line DCT address for members 1 through n
252	(FC)	SIGNED	4	PCTMTIME	Time of last NMAINT call
256	(100)	ADDRESS	4	PCTNTW	NPM \$TRACE work area

Comment

The following fields are used by routine NPDDMSG to build a symptom record.

End of Comment

260	(104)	CHARACTER	44	PCTNCC	Current NCC record being received and processed
304	(130)	ADDRESS	4	PCTNTQ	Address of current NTQ being processed
308	(134)	ADDRESS	4	PCTEDCT	Address of DCT that is related to the error
312	(138)	ADDRESS	4	PCTENIT	Address of NIT that is related to the error

Comment

The following fields are used by NPEVENT to set CES values for signons.

End of Comment

320	(140)	DBL WORD	8	PCTTOD	Time of day clock value
328	(148)	SIGNED	4	PCTEVENT	Current CES value

Comment

The following field contains NJE feature flags for features supported by this system

End of Comment

332	(14C)	SIGNED	4	PCTIFEAT	NJE feature flags
332	(14C)	X'50	0	PCTLEN	"*-PCT" Length of the PCT

Comment

Input error reason codes from all the NAT service routines. These reason codes are provided here to ensure that they are consistent from routine to routine. The reason codes are returned in register 0 when an input error has been detected in a service routine. Note that the RETURN code for input errors varies from routine to routine, but the reason codes associated with that return code are the same for all routines.

End of Comment

\$PCT Cross Reference

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
332	(14C)	X' '	0	PCT\$RC00	"0" A required control block address was not provided	
332	(14C)	X'4 '	0	PCT\$RCN1	"4" The primary node in the prototype NAT was invalid, or omitted when required	
332	(14C)	X'8 '	0	PCT\$RCM1	"8" The primary member in the prototype NAT was invalid, or omitted when required	
332	(14C)	X'C '	0	PCT\$RCN2	"12" The 2ndary node in the prototype NAT was invalid, or omitted when required	
332	(14C)	X'10 '	0	PCT\$RCM2	"16" The 2ndary member in the prototype NAT was invalid, or omitted when required	
332	(14C)	X'14 '	0	PCT\$RCRS	"20" The resistance specified in the prototype NAT was invalid	
332	(14C)	X'18 '	0	PCT\$RCDP	"24" The primary and secondary node and member of the prototype were identical (\$NATADD only)	
332	(14C)	X'1C '	0	PCT\$RCST	"28" The status of the NAT was not one of ACTIVE, INACTIVE, or HELD, or was invalid for that NAT	

\$PCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PCT\$RCDP	14C	18	PCTRSTN	48	
PCT\$RCM1	14C	8	PCTTOD	140	
PCT\$RCM2	14C	10	PCTTTOL	70	
PCT\$RCN1	14C	4	PCTTTOLD	70	80
PCT\$RCN2	14C	C	PCTVER	4	
PCT\$RCRS	14C	14	PCTVERN	4	2
PCT\$RCST	14C	1C	PCTVINQ	50	
PCT\$RC00	14C		PCTWINX	68	
PCTACTL	40		PCTWORKQ	10	
PCTDCT1	7C		PCT1FPNP	5	40
PCTEDCT	134		PCT1NERR	5	8
PCTENIT	138		PCT1NOT	5	10
PCTEVENT	148		PCT1NREC	5	4
PCTFLAG1	5		PCT1NTUP	5	20
PCTFLAG2	6		PCT1PATH	5	80
PCTID	0	D7C3E340	PCT2NSUB	6	80
PCTIFEAT	14C				
PCTINQ	4C				
PCTLEN	14C	50			
PCTLNENM	5C				
PCTMAPLN	5E				
PCTMAPQ	6C				
PCTMASDN	54				
PCTMINX	60				
PCTMINXM	64				
PCTMTIME	FC				
PCTNATAH	14				
PCTNATAT	18				
PCTNATHH	24				
PCTNATHT	28				
PCTNATNH	2C				
PCTNATNT	30				
PCTNATQS	30	14	00020		
PCTNATUH	1C				
PCTNATUT	20				
PCTNCC	104				
PCTNSAAQ	74				
PCTNTQ	130				
PCTNTQPQ	38				
PCTNTQUQ	34				
PCTNTW	100				
PCTPATHS	C				
PCTPRPIQ	58				
PCTRESPQ	3C				
PCTRSTL	44				

\$PCTAB Programming Interface information

Programming Interface information

\$PCTAB

End of Programming Interface information

\$PCTAB Heading Information

Common Name: PC table entry
Macro ID: \$PCTAB
DSECT Name: PCRT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: N/A
 Key: N/A
 Residency: These table entries are part of the HASJES20 load module and are located below 16M. Real storage can be anywhere.
Size: See PCRTELEN
Created by: \$PCTAB macro expansion in HASPTAB
Pointed to by: MCTPCRTU field of the \$MCT data area
 MCTPCRTH field of the \$MCT data area
Serialization: None required
Function: This DSECT maps entries in the PC routine table pairs which describe JES2 main task and user address space PC routines.

\$PCTAB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCRT	
0	(0)	CHARACTER	8	PCRTNAME	PC routine name
8	(8)	CHARACTER	24	PCRTDESC	PC routine description
32	(20)	BITSTRING	1	PCRTFLG1	PC table flags
32	(20)	BITSTRING	0	PCRT1PCU	"B'10000000" Entry is USER PC routine
32	(20)	BITSTRING	0	PCRT1PCH	"B'01000000" Entry is HASP PC routine
32	(20)	BITSTRING	0	PCRT1SLX	"B'00100000" System LX to be used
32	(20)	BITSTRING	0	PCRT1CKA	"B'00010000" CALLKEY=ANY specified
33	(21)	BITSTRING	1	PCRTFLG2	PC address locations
Comment					
EQU B'0000xxxx' ENTRYPT field in PADDR					
End of Comment					
33	(21)	BITSTRING	0	PCRT2EPU	"B'10000000" ENTRYPT field in the UCT
33	(21)	BITSTRING	0	PCRT2EPM	"B'01000000" ENTRYPT field in MODMAP
33	(21)	BITSTRING	0	PCRT2EPC	"B'00100000" ENTRYPT field in CADDR
33	(21)	BITSTRING	0	PCRT2EPD	"B'00010000" ENTRYPT field in UCADDR
Comment					
EQU B'xxxx0000' RECOVPT field in PADDR					
End of Comment					
33	(21)	BITSTRING	0	PCRT2RVU	"B'00001000" RECOVPT filed in the UCT
33	(21)	BITSTRING	0	PCRT2RVM	"B'00000100" RECOVPT field in MODMAP
33	(21)	BITSTRING	0	PCRT2RVC	"B'00000010" RECOVPT field in CADDR
33	(21)	BITSTRING	0	PCRT2RVD	"B'00000001" RECOVPT field in UCADDR
34	(22)	BITSTRING	1	PCRTFLG3	PC routine flags
34	(22)	BITSTRING	0	PCRT3SUP	"B'10000000" Routine runs in supervisor state
35	(23)	ADDRESS	1	PCRTKEY	PC routine run key
36	(24)	ADDRESS	2	PCRTENTY	Offset to ENTRYPT field
38	(26)	ADDRESS	2	PCRTRECV	Offset to RECOVPT field
40	(28)	ADDRESS	2	PCRTADDR	Offset in xADDR/UxADDR to store PC #
42	(2A)	ADDRESS	1	PCRTNAML	Length-1 for name in PCRTNAME
43	(2B)	ADDRESS	1	PCRTDESL	Length-1 for description in PTABDESC

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
44	(2C)	ADDRESS	4	PCRTPCNM	PC number for this service
48	(30)	BITSTRING	4		RESERVED
52	(34)	SIGNED	4	(0)	Align PCRT entry
52	(34)	X'34	0	PCRTELEN	**PCRT" Length of PCRT entry DSECT

\$PCTAB Cross Reference

Name	Hex Offset	Hex Value
PCRTADDR	28	
PCRTDESC	8	
PCRTDESL	2B	
PCRTELEN	34	34
PCRTENTY	24	
PCRTFLG1	20	
PCRTFLG2	21	
PCRTFLG3	22	
PCRTKEY	23	
PCRTNAME	0	
PCRTNAML	2A	
PCRTPCNM	2C	
PCRTRECV	26	
PCRT1CKA	20	10
PCRT1PCH	20	40
PCRT1PCU	20	80
PCRT1SLX	20	20
PCRT2EPC	21	20
PCRT2EPD	21	10
PCRT2EPM	21	40
PCRT2EPU	21	80
PCRT2RVC	21	2
PCRT2RVD	21	1
PCRT2RVM	21	4
PCRT2RVU	21	8
PCRT3SUP	22	80

\$PDDB Programming Interface information

Programming Interface information

\$PDDB

End of Programming Interface information

\$PDDB Heading Information

Common Name: JES2 Peripheral Data Definition Block
Macro ID: \$PDDB
DSECT Name: PDB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: Same as the \$IOT that contains the PDDB
 Key: Same as the \$IOT that contains the PDDB
 Residency: See \$IOT
Size: See PDBLENG
Created by: \$PDBBLD creates a PDDB within an IOT. Storage is obtained when the IOT in which it resides is created. See \$IOT for additional information.
Pointed to by: IOTPDDB field of the \$IOT data area contains the offset from the beginning of the IOT to the first PDDB within the IOT. Various fields in the processor work areas. Various fields in the exit parameter lists (\$XPL).
Serialization: JES2 reentrancy techniques for PDDBs in the JES2 main task environment. SJB lock for PDDBs in the USER environment.
Function: The Peripheral Data Set Definition Block (\$PDDB) contains or points to all characteristics, known at the time of creation of the PDDB, of each subsystem data set known to JES2. PDDBs are contained in the Input/Output Table (\$IOT), which is a spool resident JES2 job control block.

There is a PDDB for each instance of a spool data set. An instance is defined as a set of characteristics combined with a set of data. For example, a single data set may have 5 JCL output cards and 5 PDDBs will be created.

\$PDDB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PDB	HASP PDDB DSECT
0	(0)	BITSTRING	1	PDBFLAG1 (0)	Flag byte
1	(1)	BITSTRING	1	PDBRECFM	Data set record format
2	(2)	SIGNED	2	PDBLRECL	Maximum data set LRECL
4	(4)	BITSTRING	4	PDBMTTR	Starting track address of data set
8	(8)	BITSTRING	4	PDBMTTRL	Last track address of DS
12	(C)	SIGNED	4	PDBDSKEY	Data set number of data set
16	(10)	ADDRESS	2	PDBSIZE	Size of a PDDB
18	(12)	CHARACTER	1	PDBCLASS	Output class of data set
19	(13)	ADDRESS	1	PDBCOPYS	Copies of this data set
20	(14)	SIGNED	4	PDBDEST (0)	Data set output dest
20	(14)	SIGNED	2	PBDNODE	Node number (binary)
22	(16)	SIGNED	2	PBDRMT	Remote number (binary)
24	(18)	CHARACTER	8	PDBUSER (0)	Dataset dest USERID/rmtid
32	(20)	BITSTRING	1	(2)	Reserved for future use
34	(22)	BITSTRING	1	PDBFLAG2	Second flag byte
35	(23)	BITSTRING	1	PDBCPTN	Compaction table number
36	(24)	SIGNED	4	PDBRECCT	Data set record count
40	(28)	SIGNED	4	PDBPGCT	Page data page count
44	(2C)	SIGNED	4	PDBBYTCT	Actual byte count

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
48	(30)	CHARACTER	8	PDBFORMS (0)	Eight-byte forms number
56	(38)	CHARACTER	4	PDBFCB (0)	Four-byte 3211 FCB id
60	(3C)	CHARACTER	4	PDBUCS (0)	Four-byte 1403 or 3211 UCS id
64	(40)	CHARACTER	8	PDBDSID (0)	3540 dataset id
64	(40)	X'40	0	PDBWTRID	"PDBDSID,,C'C" 8-byte output writer id
72	(48)	BITSTRING	8	PDBRBA	8-byte checkpoint record

Comment

THE FOLLOWING FIELDS MUST BE KEPT TOGETHER FOR SJF UPDATE

End of Comment

80	(50)	CHARACTER	4	PDBCHAR1 (0)	N/I Printer xlate tab 1
84	(54)	CHARACTER	4	PDBCHAR2 (0)	N/I Printer xlate tab 2
88	(58)	CHARACTER	4	PDBCHAR3 (0)	N/I Printer xlate tab 3
92	(5C)	CHARACTER	4	PDBCHAR4 (0)	N/I Printer xlate tab 4

Comment

END OF THE FIELDS NEEDED FOR SJF UPDATE

End of Comment

96	(60)	CHARACTER	4	PDBFLASH (0)	N/I Printer flash cart id
100	(64)	CHARACTER	4	PDBMODF (0)	N/I Printer copy mod image
104	(68)	ADDRESS	1	PDBFLSHC	N/I printer # flash copies
105	(69)	BITSTRING	1	PDBMODFT	N/I printer tbl ref char
106	(6A)	BITSTRING	8	PDBCOPYG (0)	N/I Printer copy groups
114	(72)	BITSTRING	2	PDBCKPTP	Nr of logical page/ckpt
116	(74)	BITSTRING	2	PDBCKPTL	Nr of lines/logical page
118	(76)	BITSTRING	1	PDBFLAG3	The third flag byte
119	(77)	BITSTRING	1		Reserved for future use
120	(78)	CHARACTER	2	PDBID (0)	Output id qualifier for JOE
122	(7A)	CHARACTER	8	PDBNAME (0)	Output name for this PDDB
132	(84)	SIGNED	4	PDBCRTME	Create Time
136	(88)	SIGNED	4	PDBSEGID	Segment identifier
140	(8C)	SIGNED	4	PDBGGTOK	Generic grouping token

Comment

WHEN USED AS A SPIN PDDB

End of Comment

144	(90)	ADDRESS	4	PDBPLIOT	Pointer to normal IOT place holder
148	(94)	SIGNED	4	PDBPLOFF	The offset to related PDDB

Comment

WHEN USED AS A PLACE HOLDER PDDB

End of Comment

144	(90)	SIGNED	4	PDBSPTTR	MTTR of spin IOT
152	(98)	CHARACTER	4	PDBSSOFM (0)	Save forms at allocation
156	(9C)	CHARACTER	8	PDBPNAME (0)	Proc step name
164	(A4)	CHARACTER	8	PDBSNAME (0)	Step name
172	(AC)	CHARACTER	8	PDBDDNAM (0)	DD name
180	(B4)	CHARACTER	8	PDBPRMD (0)	PRMODE name
188	(BC)	BITSTRING	80	PDBTOKEN (0)	Security tkn
268	(10C)	CHARACTER	8	PDBCRUID (0)	Creator userid
276	(114)	CHARACTER	8	PDBSECLB (0)	Security label
284	(11C)	BITSTRING	1	PDBLINCT	Dataset line cnt (LINECNT)
285	(11D)	BITSTRING	1	PDBINDEX	3211 FCB index value
286	(11E)	BITSTRING	1	PDBFUNC	3525 function byte
287	(11F)	BITSTRING	1	PDBPRIO	Data set priority

\$PDDDB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
All PDDDB flags should be cleared on return from exit 47 in module HASPNSR.					
End of Comment					
288	(120)	BITSTRING	1	PDBFLAG4	The fourth flag byte
289	(121)	BITSTRING	1	PDBFLAG5	The fifth flag byte
290	(122)	BITSTRING	1	PDBFLAG6	The sixth flag byte
291	(123)	BITSTRING	1	PDBFLAG7	The seventh flag byte
292	(124)	SIGNED	4	PDBSWBOT	Starting trk output SWBs
296	(128)	BITSTRING	8	PDBOUTOK (0)	Data sets output SWB token
304	(130)	CHARACTER	8	PDBCPTNM (0)	Compact table name
312	(138)	SIGNED	4		Reserved for future use
316	(13C)	SIGNED	4	PDBNDHTR	MTTR of dataset header
320	(140)	BITSTRING	1	PDBFLAG8	Eighth flag byte
321	(141)	BITSTRING	1	PDBFLAG9	Ninth flag byte
322	(142)	SIGNED	2		Reserved for future use
324	(144)	SIGNED	4	(4)	Reserved for future use
340	(154)	CHARACTER	44	PDBDSNAM (0)	Data set name
384	(180)	SIGNED	4	(0)	
384	(180)	X'80	0	PDBLENG	**-.PDB" PDDDB LENGTH
Comment					
PDBFLAG1					
End of Comment					
384	(180)	BITSTRING	0	PDB1NEWS	"B'10000000" JESNEWS DATA SET
384	(180)	BITSTRING	0	PDB1NULL	"B'01000000" THIS IS A NULL PDDDB
384	(180)	BITSTRING	0	PDB1LOG	"B'00100000" THIS PDDDB IS FOR THE HASP JOB LOG
384	(180)	BITSTRING	0	PDB1MOC	"B'00010000" Multiple Output Characteristic(MOC) Spin data set indicator
384	(180)	BITSTRING	0	PDB1NSOT	"B'00001000" DATA SET IS NOT FOR SYSOUT
384	(180)	BITSTRING	0	PDB1SPIN	"B'00000100" THIS PDDDB IS FOR A SPIN DATA SET
384	(180)	BITSTRING	0	PDB1USER	"B'00000010" This PDDDB is for a user
384	(180)	BITSTRING	0	PDB1DAUG	"B'00000001" This is a daughter spin IOT
Comment					
PDBFLAG2					
End of Comment					
384	(180)	BITSTRING	0	PDB2TCEL	"B'10000000" DATA SET IS TRAKCELL'ED
384	(180)	BITSTRING	0	PDB2OPTJ	"B'01000000" OPTCD=J SPECIFIED
384	(180)	BITSTRING	0	PDB2BRST	"B'00100000" BURST=YES SPECIFIED
384	(180)	BITSTRING	0	PDB2PRIO	"B'00010000" Installation set JOE prio. Or dataset re-loaded.
384	(180)	BITSTRING	0	PDB2JFMS	"B'00001000" PDBFORMS SET FROM JCTFORMS
384	(180)	BITSTRING	0	PDB2HLDS	"B'00000100" HOLD= SPECIFIED ON DD
384	(180)	BITSTRING	0	PDB2PSOR	"B'00000010" PSO ROUTE CHANGE
384	(180)	BITSTRING	0	PDB2FOLD	"B'00000001" JFCFOLD WAS SPECIFIED
Comment					
PDBFLAG3					
End of Comment					
384	(180)	BITSTRING	0	PDB3PLHD	"B'10000000" PLACE HOLDER PDDDB
384	(180)	BITSTRING	0	PDB3PSOC	"B'01000000" PSO CLASS CHANGE
384	(180)	BITSTRING	0	PDBLNCTF	"B'00100000" LINECT SPECIFIED
384	(180)	BITSTRING	0	PDB3STAT	"B'00010000" JOB STATISTICS IN JOB LOG
384	(180)	BITSTRING	0	PDB3LINE	"B'00001000" DATA SET HAS LINE MODE RECORDS
384	(180)	BITSTRING	0	PDB3PAGE	"B'00000100" DATA SET HAS PAGE DATA RECORDS

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
384	(180)	BITSTRING	0	PDB3SP2	"B'00000010" FORCED DOUBLE SPACING
384	(180)	BITSTRING	0	PDB3SP1	"B'00000001" FORCED SINGLE SPACING

Comment

PDBFLAG4

End of Comment

384	(180)	BITSTRING	0	PDB4OUTJ	"B'10000000" PDDB IS REFERENCE BY OUTPUT JCL
384	(180)	BITSTRING	0	PDB4BRST	"B'01000000" BURST (Y OR N) IN DD CARD
384	(180)	BITSTRING	0	PDB4JFCB	"B'00100000" MERGE JFCB INTO THIS PDDB
384	(180)	BITSTRING	0	PDB4SYSN	"B'00010000" SYSTEM GENERATED NAME
384	(180)	BITSTRING	0	PDB4OCLS	"B'00001000" CLASS SET FROM OUTPUT JCL
384	(180)	BITSTRING	0	PDB4OCPY	"B'00000100" COPY SET FROM OUTPUT JCL
384	(180)	BITSTRING	0	PDBPLNUL	"B'00000010" NULLIFIED PLACEHOLDER PDDB
384	(180)	BITSTRING	0	PDB4SDBT	"B'00000001" FORCE SDB TO TRACKCELL

Comment

PDBFLAG5

End of Comment

384	(180)	BITSTRING	0	PDB5OPEN	"B'10000000" DATASET IS OPEN FOR OUTPUT
384	(180)	BITSTRING	0	PDB5NUNK	"B'01000000" Token is NJE unknown user
384	(180)	BITSTRING	0	PDB5SPAU	"B'00100000" DATA SET FAILED SPOOL OFFLOAD AUTHORIZATION
384	(180)	BITSTRING	0	PDB5PTKN	"B'00010000" Token to be propagated
384	(180)	BITSTRING	0	PDB5AODS	"B'00001000" Use abnormal disp for spin
384	(180)	BITSTRING	0	PDB5XBM2	"B'00000100" Data set is SYSIN for XBM/2
384	(180)	BITSTRING	0	PDB5PRGA	"B'00000010" \$PURGE auth check required
384	(180)	BITSTRING	0	PDB5SAFD	"B'00000001" \$PURGE auth check footprint

Comment

PDBFLAG6

End of Comment

384	(180)	BITSTRING	0	PDB6AOSO	"B'00100000" ABNORMAL OUTDISP SPECIFIED ON OUTPUT JCL STATEMENT
384	(180)	X'10	0	PDB6AODP	"\$ODPURGE" ABNORMAL OUTDISP=PURGE
384	(180)	X'8	0	PDB6AODW	"\$ODWRITE" ABNORMAL OUTDISP=WRITE
384	(180)	X'4	0	PDB6AODH	"\$ODHOLD" ABNORMAL OUTDISP=HOLD
384	(180)	X'2	0	PDB6AODK	"\$ODKEEP" ABNORMAL OUTDISP=KEEP
384	(180)	X'1	0	PDB6AODL	"\$ODLEAVE" ABNORMAL OUTDISP=LEAVE
384	(180)	X'1F	0	PDB6AODA	"\$ODANYWP" CHECK ALL BIT SETTINGS

Comment

PDBFLAG7

End of Comment

384	(180)	BITSTRING	0	PDB7DSWB	"B'10000000" OUTPUT SWB to be deleted
384	(180)	BITSTRING	0	PDB7HOPX	"B'01000000" SYSTEM HOLD DATASET DUE TO HOP COUNT EXCESSION
384	(180)	BITSTRING	0	PDB7NOSO	"B'00100000" NORMAL OUTDISP SPECIFIED ON OUTPUT JCL STATEMENT
384	(180)	X'10	0	PDB7NODP	"\$ODPURGE" NORMAL OUTDISP=PURGE
384	(180)	X'8	0	PDB7NODW	"\$ODWRITE" NORMAL OUTDISP=WRITE
384	(180)	X'4	0	PDB7NODH	"\$ODHOLD" NORMAL OUTDISP=HOLD
384	(180)	X'2	0	PDB7NODK	"\$ODKEEP" NORMAL OUTDISP=KEEP
384	(180)	X'1	0	PDB7NODL	"\$ODLEAVE" NORMAL OUTDISP=LEAVE
384	(180)	X'1F	0	PDB7NODA	"\$ODANYWP" CHECK ALL BIT SETTINGS

\$PDDDB Map

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
Comment						
PDBFLAG8						
End of Comment						
384	(180)	BITSTRING	0	PDB8DSID	"B'10000000" DSID IN PDBSID	
384	(180)	BITSTRING	0	PDB8FORM	"B'01000000" FORM was explicitly coded either on the DD, OUTPUT JCL or inherited from JOBPARM FORM=	
384	(180)	BITSTRING	0	PDB8UNDF	"B'00100000" Userid is undefined	
384	(180)	BITSTRING	0	PDB8NREU	"B'00010000" THE SPIN IOT REPRESENTED BY THIS PLACE HOLDER PDDDB IS NOT REUSABLE	
384	(180)	BITSTRING	0	PDB8UPRI	"B'00001000" PRTY was specified on the OUTPUT JCL statement	
384	(180)	BITSTRING	0	PDB8UNAL	"B'00000100" SYSOUT data set has been unallocated (not set for any special data sets)	
384	(180)	BITSTRING	0	PDB8SYIN	"B'00000010" SYSIN data set (from input services)	
384	(180)	BITSTRING	0	PDB8RERT	"B'00000001" Dataset was rerouted by SYSOUT receiver	
Comment						
PDBFLAG9						
<p>The following flag is set only at sysout data set allocation time and later used in setting the corresponding bit JOE2IPAD in \$JOE during output grouping. Subsequent processing will only use the \$JOE flag.</p>						
End of Comment						
384	(180)	BITSTRING	0	PDB9IPAD	"B'10000000" Dataset's dest in IP-format	
Comment						
<p>PDB9CTKN indicates that a client token was returned as part of the dynamic allocation for the dataset. PDB9CTKN is only turned on for the first data set for MOCHA. PDB9CTKN is never turned off.</p>						
End of Comment						
384	(180)	BITSTRING	0	PDB9CTKN	"B'01000000" Client token returned for data set	
384	(180)	BITSTRING	0	PDB9JESL	"B'00100000" JESLOG spin data set	
384	(180)	BITSTRING	0	PDB9SALC	"B'00010000" Separate track group map used to create data set	
Comment						
DATA SET KEYS FOR SPECIAL DATA SETS						
End of Comment						
384	(180)	X'1	'	0	PDBINJCL	"1" INPUT JCL STATEMENTS
384	(180)	X'2	'	0	PDBOUHJL	"2" HASP JOB LOG
384	(180)	X'3	'	0	PDBOUJCI	"3" JCL IMAGES
384	(180)	X'4	'	0	PDBOUMSG	"4" SYSTEM MESSAGES
384	(180)	X'5	'	0	PDBINTXT	"5" INTERNAL TEXT
384	(180)	X'6	'	0	PDBINJNL	"6" JOB JOURNAL
384	(180)	X'64	'	0	PDBUISKY	"100" INITIAL DATA SET KEY NUMBER

\$PDDB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PDBBYTCT	2C	0	PDBRECCT	24	0
PDBCHAR1	50	5C5C5C5C	PDBRECFM	1	0
PDBCHAR2	54	5C5C5C5C	PDBSECLB	114	40404040
PDBCHAR3	58	5C5C5C5C	PDBSEGID	88	0
PDBCHAR4	5C	5C5C5C5C	PDBSIZE	10	
PDBCKPTL	74	FFFF	PDBSNAME	A4	40404040
PDBCKPTP	72	FFFF	PDBSPTRR	90	0
PDBCLASS	12	C1	PDBSSOFM	98	40404040
PDBCOPYG	6A	0	PDBSWBOT	124	0
PDBCOPYS	13		PDBTOKEN	BC	0
PDBCPTN	23	FF	PDBUCS	3C	5C5C5C5C
PDBCPTNM	130	0	PDBUI SKY	180	64
PDBCRTME	84	0	PDBUSER	18	0
PDBCRUID	10C	40404040	PDBWTRID	40	40
PDBDDNAM	AC	40404040	PDB1DAUG	180	1
PDBDEST	14		PDB1LOG	180	20
PBDNODE	14	0	PDB1MOC	180	10
PBDRMT	16	0	PDB1NEWS	180	80
PBDBSID	40	40404040	PDB1NSOT	180	8
PBDBSKEY	C	0	PDB1NULL	180	40
PBDBSNAM	154	40404040	PDB1SPIN	180	4
PDBFCB	38	5C5C5C5C	PDB1USER	180	2
PDBFLAG1	0	40	PDB2BRST	180	20
PDBFLAG2	22	0	PDB2FOLD	180	1
PDBFLAG3	76	0	PDB2HLDS	180	4
PDBFLAG4	120	0	PDB2JFMS	180	8
PDBFLAG5	121	0	PDB2OPTJ	180	40
PDBFLAG6	122	0	PDB2PRIO	180	10
PDBFLAG7	123	0	PDB2PSOR	180	2
PDBFLAG8	140	0	PDB2TCEL	180	80
PDBFLAG9	141	0	PDB3LINE	180	8
PDBFLASH	60	5C5C5C5C	PDB3PAGE	180	4
PDBFLSHC	68		PDB3PLHD	180	80
PDBFORMS	30	40404040	PDB3PSOC	180	40
PDBFUNC	11E	0	PDB3SP1	180	1
PDBGGTOK	8C	0	PDB3SP2	180	2
PDBID	78	0	PDB3STAT	180	10
PDBINDEX	11D	0	PDB4BRST	180	40
PDBINJCL	180	1	PDB4JFCB	180	20
PDBINJNL	180	6	PDB4OCLS	180	8
PDBINTXT	180	5	PDB4OCPY	180	4
PDBLENG	180	80	PDB4OUTJ	180	80
PDBLINCT	11C	0	PDB4SDBT	180	1
PDBLNCTF	180	20	PDB4SYSN	180	10
PDBLRECL	2	0	PDB5AODS	180	8
PDBMODF	64	5C5C5C5C	PDB5NUNK	180	40
PDBMODFT	69	0	PDB5OPEN	180	80
PDBMTTR	4	0	PDB5PRGA	180	2
PDBMTTRL	8	0	PDB5PTKN	180	10
PDBNAME	7A	0	PDB5SAFD	180	1
PDBNDHTR	13C	0	PDB5SPAU	180	20
PDBOUHJL	180	2	PDB5XBM2	180	4
PDBOUJCI	180	3	PDB6AODA	180	1F
PDBOUMSG	180	4	PDB6AODH	180	4
PDBOUTOK	128	0	PDB6AODK	180	2
PDBPGCT	28	0	PDB6AODL	180	1
PDBPLIOT	90		PDB6AODP	180	10
PDBPLNUL	180	2	PDB6AODW	180	8
PDBPLOFF	94	0	PDB6AOSO	180	20
PDBPNAME	9C	40404040	PDB7DSWB	180	80
PDBPRIO	11F	0	PDB7HOPX	180	40
PDBPRMD	B4	40404040	PDB7NODA	180	1F
PDBRBA	48	0	PDB7NODH	180	4

\$PDDDB Cross Reference

Name	Hex Offset	Hex Value
PDB7NODK	180	2
PDB7NODL	180	1
PDB7NODP	180	10
PDB7NODW	180	8
PDB7NOSO	180	20
PDB8DSID	180	80
PDB8FORM	180	40
PDB8NREU	180	10
PDB8RERT	180	1
PDB8SYIN	180	2
PDB8UNAL	180	4
PDB8UNDF	180	20
PDB8UPRI	180	8
PDB9CTKN	180	40
PDB9IPAD	180	80
PDB9JESL	180	20
PDB9SALC	180	10

\$PERFCB Heading Information

Common Name: Performance data anchor CB
Macro ID: \$PERFCB
DSECT Name: PERFCB INITSTAT QSUCB PPB PTPB WTCB PSCBD
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: PCB
 Offset: PCBID
 Length: L'PCBID
Storage Attributes: Subpool: 24 (Except PPB which are subpool 25)
 Key: 1
 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.
Size: See PCBLLEN for PERFCB
 L'INITRENT for INITSTAT
 QSUCBLEN for QSUCB
 PPBLEN for PPB
 PTPBLEN for PTPB
 WTCBLEN for WTCB
 PSCBLEN for PSCBD
Created by: HASPIRA for the PCB and INITSTAT
 HASPDYN for the PPB and PTPB
 HASPNUC for the QSUCB, WTCB and PSCB
Pointed to by: PERFCB
 - \$PERFCB field of the HCT data area
 INITSTAT
 - PCBINITS field of the PERFCB data area
 QSUCB
 - PCBQSUHD field of the PERFCB data area
 - PCBQSUTL field of the PERFCB data area
 - PCBQSNDX field of the PERFCB data area
 - QSUCBANX field of the QSUCB data area
 - QSUCBUNX field of the QSUCB data area
 - QSUCBUPR field of the QSUCB data area
 PPB
 - Prefix area in front of every PCE
 PTPB
 - PCBPTPB field of the PERFCB data area
 - PPBPTPB field of the PPB data area
 - PCBNEXT field of the PTPB data area
 WTCB
 - PTPBWTCB field of the PTPB data area
 - WTCBNEXT field of the WTCB data area
 PSCBD
 - QTCBPSCB field of the WTCB data area
 - PSCBNEXT field of the PSCBD data area
Serialization: Normal PCE dispatch serialization
Function: The \$PERFCB is the anchor control block for performance related data collected by JES2. This macro also contains DSECTs that describe areas that the PERFCB points to.

\$PERFCB Map

\$PERFCB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Performance anchor CB
0	(0)	CHARACTER	4	PCBID	Control block id
4	(4)	ADDRESS	1	PCBVERSN	Control block version
4	(4)	X'1	0	PCBVERN	"1" Version number
5	(5)	BITSTRING	3		Reserved
8	(8)	DBL WORD	8	PCBWORK	Double word work area

Comment

JES2 Initialization performance information. PCBINITS points to a vector of entries, one per 'initialization' routine. The last entry in the list is all zero. The DSECT maps the data within each vector element. All times are in micro-seconds.

End of Comment

16	(10)	ADDRESS	4	PCBINITS	Pointer to the init stats
----	------	---------	---	----------	---------------------------

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	INITSTAT	, DSECT for initstats
0	(0)	CHARACTER	8	INITRNAM	Routine name
8	(8)	BITSTRING	8	INITRTIM	Run time for routine
16	(10)	BITSTRING	8	INITRCPU	CPU time for routine
16	(10)	X'18'	0	INITRENT	"INITSTAT,*-INITSTAT" Equate for entire entry

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT

Comment

\$QSUSE wait statistics. PCBQSNDX is a vector that of \$QSUSE statistics control blocks. Each element on the list represents a \$QSUSE macro that was called when JES2 did not own the CKPT data set queues. Each vector slot corresponds to an address range where the \$QSUSE was invoked. PCBQSUHC is another chain through the same control blocks, sorted with the most frequently used \$QSUSE entries first.

End of Comment

20	(14)	ADDRESS	4	PCBQSUHD	Head for use sorted chain
24	(18)	ADDRESS	4	PCBQSUTL	Tail for use sorted chain
28	(1C)	ADDRESS	4	PCBQSNDX (32)	Index into address chain
156	(9C)	ADDRESS	4		Index for big addresses
156	(9C)	X'20	0	PCBQSNXN	"32" Number of index entries
160	(A0)	DBL WORD	8	PCBQSLRS	STCK time at last reset
168	(A8)	DBL WORD	8	PCBQSINT	Interval since reset (microseconds)

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	QSUCB	, QSUSE performance CB
0	(0)	CHARACTER	4	QSUCBID	Eyecatcher
4	(4)	BITSTRING	1	QSUCBVRN	Version number

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	X'1 '	0	QSUCBVR	"1" Current version
5	(5)	BITSTRING	3		Reserved
8	(8)	ADDRESS	4	QSUCBANX	Next entry address chain
12	(C)	ADDRESS	4	QSUCBUNX	Next entry use chain
16	(10)	ADDRESS	4	QSUCBUPR	Previous entry use chain
20	(14)	ADDRESS	4	QSUCBADR	Addr of \$QSUSE parmlist
24	(18)	SIGNED	4		Reserved
28	(1C)	SIGNED	4	QSUCBCNT	Use count
32	(20)	BITSTRING	8	QSUCBTIM	Wait time (microseconds)
40	(28)	DBL WORD	8	(0)	Alignment
40	(28)	X'28 '	0	QSUCBLEN	**_QSUCB" Length of element

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT

Comment

PCE performance information. Information is tracked for each PCE and for each type of PCE. The PCE performance block (PPB) is located before each PCE in storage. The PCE type performance blocks (PTPB) represents a type of PCE and tracks information based on PCE types (as defined by \$PCETABs). The WTCB track \$WAIT based on \$WAIT invocation. The PSCBD tracks \$POSTs based on \$POST type.

End of Comment

176	(B0)	DBL WORD	8	PCBCPULD	CPU time of last dispatch
184	(B8)	DBL WORD	8	PCBRUNLD	STCK time of last dispatch
192	(C0)	DBL WORD	8	PCBCPULW	CPU time of last \$WAIT
200	(C8)	DBL WORD	8	PCBRUNLW	STCK time of last \$WAIT
208	(D0)	DBL WORD	8	PCBLSTRS	CPU time at last reset
216	(D8)	DBL WORD	8	PCBLSTRT	STCK time at last reset
224	(E0)	DBL WORD	8	PCBRSTIS	CPU reset interval (micro)
232	(E8)	DBL WORD	8	PCBRSTIT	STCK reset interval (micro)
240	(F0)	ADDRESS	4	PCBPTPB	PTPB chain pointer
244	(F4)	ADDRESS	4	PCBPTPBS	Sorted chain anchor

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PPB	, PCE performance block
0	(0)	CHARACTER	4	PPBID	Eyecatcher
4	(4)	BITSTRING	1	PPBVERN	Version number
4	(4)	X'1 '	0	PPBVER	"1" Current version
5	(5)	BITSTRING	1		Reserved

Comment

 This 2 byte code is post code for the last post of this PCE. Byte 1 is the post type (equates below). Byte 2 is the specific event post that placed the PCE on the ready queue. An event \$POST with byte 2 = 0 indicates a \$POST xx,FORCE.

End of Comment

6	(6)	BITSTRING	2	PPBLPOST	Last post type (valid only when PCE is on the ready Q)
6	(6)	X' '	0	PPBLPRES	"0" Resource post (Must be 0)

\$PERFCB Map

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
6	(6)	X'1	'	0	PPBLPEVN	"1" Event post (Must be 1)
6	(6)	X'2	'	0	PPBLPXE	"2" XECB post
6	(6)	X'3	'	0	PPBLPSSI	"3" \$\$POST of a event
8	(8)	ADDRESS		4	PPBPTPB	Addr of related PTPB
12	(C)	SIGNED		4	PPBWAITC	\$WAIT count for this PCE
16	(10)	DBL WORD		8	PPBCPUT	CPU time used by this PCE
24	(18)	DBL WORD		8	PPBRUNT	Run time used by this PCE
32	(20)	DBL WORD		8	PPBWAITT	Total \$WAIT time for PCE
40	(28)	DBL WORD		8	PPBQSUSE	\$QSUSE time used by PCE (in microseconds)
48	(30)	SIGNED		4	PPBIOCNT	I/O count for this PCE
52	(34)	SIGNED		4	PPBCKPTN	Num of \$CKPTs for this PCE
56	(38)	SIGNED		4		Reserved
60	(3C)	SIGNED		4		Reserved
64	(40)	DBL WORD		8	(0)	Ensure alignment
64	(40)	X'40	'	0	PPBLEN	**"-PPB" Length of control block

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
0	(0)	STRUCTURE		0	PERFCB	, Resume PERFCB DSECT

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
0	(0)	STRUCTURE		0	PTPB	, PCE type performance block
0	(0)	CHARACTER		4	PTPBID	Eyecatcher
4	(4)	ADDRESS		4	PTPBNEXT	Chain pointer
8	(8)	ADDRESS		4	PTPBNXT2	2ndary chain word
12	(C)	ADDRESS		4	PTPB TAB	Address of PCETAB
16	(10)	SIGNED		4	PTPBIOCT	I/O count for PCE type
24	(18)	DBL WORD		8	PTPBRUNT	Total run time for all PCEs
32	(20)	DBL WORD		8	PTPBCPUT	Total CPU time for all PCEs
40	(28)	DBL WORD		8	PTPBQSUS	Total \$QSUSE time for all PCEs (in microseconds)
48	(30)	ADDRESS		4	PTPBW TCH	Chain of \$WAIT CBs
52	(34)	SIGNED		4	PTPBCKPT	Num of \$CKPTs for all PCEs
56	(38)	SIGNED		4		Reserved
60	(3C)	SIGNED		4		Reserved
64	(40)	DBL WORD		8	(0)	Ensure alignment
64	(40)	X'40	'	0	PTPBLEN	**"-PTPB" Length of control block

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
0	(0)	STRUCTURE		0	PERFCB	, Resume PERFCB DSECT
0	(0)	STRUCTURE		0	WTCB	, Wait performance block
0	(0)	CHARACTER		4	WTCBID	Eyecatcher
4	(4)	ADDRESS		4	WTCBNEXT	Pointer to next WTCB
8	(8)	DBL WORD		8	WTCBINFO (0)	Wait address information
8	(8)	ADDRESS		4	WTCBADR	Address of \$WAIT parmlist
12	(C)	ADDRESS		4	WTCBADR2	2ndary parmlist pointer
16	(10)	ADDRESS		4	WTCBPSCB	Address of PSCB chain
20	(14)	SIGNED		4	WTCBWCNT	Wait count
24	(18)	DBL WORD		8	WTCBWAIT	Total \$WAIT time for PCEs
32	(20)	DBL WORD		8	(0)	Alignment
32	(20)	X'20	'	0	WTCBLEN	**"-WTCB" Length of control block

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
0	(0)	STRUCTURE		0	PERFCB	, Resume PERFCB DSECT
0	(0)	STRUCTURE		0	PSCBD	, \$POST performance block

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	CHARACTER	4	PSCBID	Eyecatcher
4	(4)	ADDRESS	4	PSCBNEXT	Pointer to next PSCB
8	(8)	SIGNED	2	PSCBTYPE	\$POST Type (see PPBLPOST)
10	(A)	BITSTRING	2		Reserved
12	(C)	SIGNED	4	PSCBWCNT	Wait count
16	(10)	DBL WORD	8	PSCBWAIT	Total \$WAIT time for PCEs
24	(18)	DBL WORD	8	(0)	Alignment
24	(18)	X'18	0	PSCBLEN	**-"PSCBD" Length of control block

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT

Comment

Event reporting information. Every time an note worthy event is noticed, a record is created to note the time and PCE that had the event. These are then displayed by \$D PERFDATA(EVENT). As new event types are added (EVNTTYPE), the \$SCANTAB in HASPSTAB must be updated.

End of Comment

248	(F8)	ADDRESS	4	PCBEVNTF	1st event control block
252	(FC)	ADDRESS	4	PCBEVNTL	Last (newest) event CB
256	(100)	SIGNED	4	PCBEVCNT	Count of exception CBs
256	(100)	X'64	0	PCBEVNLM	"100" Limit of events tracked
264	(108)	DBL WORD	8	PCBEVLRS	STCK time at last reset
272	(110)	DBL WORD	8	PCBEVINT	STCK reset interval (micro)

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	EVENT	, Exception description
0	(0)	CHARACTER	4	EVNTID	Eyecatcher
4	(4)	ADDRESS	4	EVNTNEXT	Next exception
8	(8)	DBL WORD	8	EVNTTIME	STCK of exception
16	(10)	DBL WORD	8	EVNTDUR	Duration of event or 0 (micro seconds)
24	(18)	CHARACTER	8	EVNTPNAM	PCE/DCT name
32	(20)	CHARACTER	8	EVNTMODN	Related module name
40	(28)	CHARACTER	8	EVNTSEQN	Related seq number/offset
48	(30)	CHARACTER	8	EVNTJID	Related job id
56	(38)	SIGNED	1	EVNTTYPE	Type of event
56	(38)	X'1	0	EVNTRUN	"1" Excessive run time
56	(38)	X'2	0	EVNTABND	"2" ABEND/\$ERROR
56	(38)	X'3	0	EVNTDIST	"3" \$DISTERR
57	(39)	BITSTRING	3		Reserved
60	(3C)	CHARACTER	8	EVNTDATA	Additional data
72	(48)	DBL WORD	8	(0)	Alignment
72	(48)	X'48	0	EVNTLEN	**-"EVENT" Length of control block

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT

Comment

CKPT reporting information.

End of Comment

\$PERFCB Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
280	(118)	DBL WORD	8	PCBCKLRS	STCK time at last reset
288	(120)	DBL WORD	8	PCBCKINT	STCK reset interval (micro)
296	(128)	DBL WORD	8	PCBCKTHL	Total hold time (STCK)
304	(130)	DBL WORD	8	PCBCKAHL	Average hold time (micro)
312	(138)	SIGNED	4	PCBCKCHL	Hold time count
316	(13C)	SIGNED	4	PCBCKCDR	Dormancy time count
320	(140)	DBL WORD	8	PCBCKTDR	Total dormancy time (STCK)
328	(148)	DBL WORD	8	PCBCKADR	Avg dormancy time (micro)
336	(150)	SIGNED	4	PCBCKCNT	\$CKPT count
340	(154)	SIGNED	4	PCBCKOCK	\$CKPT optimization count
344	(158)	SIGNED	4	PCBCKO4K	4K page optimization count
348	(15C)	SIGNED	4	PCBCK4KC	Count of 4K pages written (in IW and FW)
352	(160)	SIGNED	4	PCBCKCBC	Count of control blocks written (in IW and FW)
356	(164)	SIGNED	4		Reserved

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCBCKIO	,
0	(0)	CHARACTER	4	PCBCKION	Name of the I/O
4	(4)	SIGNED	4	PCBCKIOC	Count of I/Os
8	(8)	DBL WORD	8	PCBCKIOT	Total I/O time (STCK)
16	(10)	DBL WORD	8	PCBCKIOA	Average I/O time (micro)
24	(18)	SIGNED	4	PCBCKIO4	Total 4K page count
28	(1C)	SIGNED	4	PCBCKIOB	Total CB count
28	(1C)	X'20	0	PCBCKIOL	**-"PCBCKIO" Length of area

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
360	(168)	DBL WORD	8	(0)	Align I/O data areas
360	(168)	BITSTRING	32	PCBCKR1	Data area for read 1
392	(188)	BITSTRING	32	PCBCKR2	Data area for read 2
424	(1A8)	BITSTRING	32	PCBCKPW	Data area for Primary Write
456	(1C8)	BITSTRING	32	PCBCKIW	Data area for Intermediate
488	(1E8)	BITSTRING	1	PCBCKFW	Data area for Final Write
488	(1E8)	X'5	0	PCBCKIO#	"(*-PCBCKR1)/PCBCKIOL" Number of I/O entries
520	(208)	SIGNED	4	(4)	Reserved
536	(218)	DBL WORD	8	(0)	Alignment
536	(218)	X'18	0	PCBLEN	**-"PERFCB" Length of PERFCB

\$PERFCB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
EVNTABND	38	2	INITRNAM	0	
EVNTDATA	3C		INITRTIM	8	
EVNTDIST	38	3	PCBCKADR	148	
EVNTDUR	10		PCBCKAHL	130	
EVNTID	0	C5E5D5E3	PCBCKCBC	160	
EVNTJID	30		PCBCKCDR	13C	
EVNTLEN	48	48	PCBCKCHL	138	
EVNTMODN	20		PCBCKCNT	150	
EVNTNEXT	4		PCBCKFW	1E8	
EVNTPNAM	18		PCBCKINT	120	
EVNTRUN	38	1	PCBCKIO#	1E8	5
EVNTSEQN	28		PCBCKIOA	10	
EVNTTIME	8		PCBCKIOB	1C	
EVNTTYPE	38		PCBCKIOC	4	
INITRCPU	10		PCBCKIOL	1C	20
INITRENT	10	18	PCBCKION	0	

\$PERFCB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PCBCKIOT	8		PTPBID	0	
PCBCKIO4	18		PTPBIOCT	10	
PCBCKIW	1C8		PTPBLEN	40	40
PCBCKLRS	118		PTPBNEXT	4	
PCBCKOCK	154		PTPBNXT2	8	
PCBCKO4K	158		PTPBQSUS	28	
PCBCKPW	1A8		PTPBRUNT	18	
PCBCKR1	168		PTPBTAB	C	
PCBCKR2	188		PTPBWTCH	30	
PCBCKTDR	140		QSUCBADR	14	
PCBCKTHL	128		QSUCBANX	8	
PCBCK4KC	15C		QSUCBCNT	1C	
PCBCPULD	B0		QSUCBID	0	
PCBCPULW	C0		QSUCBLEN	28	28
PCBEVCNT	100		QSUCBTIM	20	
PCBEVINT	110		QSUCBUNX	C	
PCBEVLR	108		QSUCBUPR	10	
PCBEVNLM	100	64	QSUCBVR	4	1
PCBEVNTF	F8		QSUCBVRN	4	
PCBEVNTL	FC		WTCBADR	8	
PCBID	0	D7C3C240	WTCBADR2	C	
PCBINITS	10		WTCBID	0	
PCBLEN	218	18	WTCBINFO	8	
PCBLSTRS	D0		WTCBLEN	20	20
PCBLSTRT	D8		WTCBNEXT	4	
PCBPTPB	F0		WTCBPSCB	10	
PCBPTPBS	F4		WTCBWAIT	18	
PCBQSINT	A8		WTCBWCNT	14	
PCBQSLRS	A0				
PCBQSNDX	1C				
PCBQSNXN	9C	20			
PCBQSUHD	14				
PCBQSUTL	18				
PCBRSTIS	E0				
PCBRSTIT	E8				
PCBRUNLD	B8				
PCBRUNLW	C8				
PCBVERN	4	1			
PCBVERSN	4				
PCBWORK	8				
PPBCKPTN	34				
PPBCPUT	10				
PPBID	0				
PPBIOCNT	30				
PPBLEN	40	40			
PPBLPEVN	6	1			
PPBLPOST	6				
PPBLPRES	6				
PPBLPSSI	6	3			
PPBLPXC	6	2			
PPBPTPB	8				
PPBQSUSE	28				
PPBRUNT	18				
PPBVER	4	1			
PPBVERN	4				
PPBWAITC	C				
PPBWAITT	20				
PSCBID	0				
PSCBLEN	18	18			
PSCBNEXT	4				
PSCBTYPE	8				
PSCBWAIT	10				
PSCBWCNT	C				
PTPBCKPT	34				
PTPBPCPUT	20				

\$PERFCB Cross Reference

\$PIT Programming Interface information

Programming Interface information

\$PIT

End of Programming Interface information

\$PIT Heading Information

Common Name: Partition Information Table dsect
Macro ID: \$PIT
DSECT Name: PIT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'PIT '
 Offset: LMT-\$CSBPRFX+\$CSBID
 Length: 4

Storage Attributes: Subpool: 241
 Key: 1
 Residency: Virtual and real storage are anywhere (above or below 16M) in common storage (CSA), once JES2 has been initialized. During a non-hot start JES2 initialization, temporary PITs exist in JES2 extended private in subpool 6.

Size: See the PITLEN equate.

Created by: Temporary PITs are created during JES2 initialization for the maximum number possible (the \$MAXINIT equate). Permanent PITs are created by JES2 initialization in CSA, and kept across possible JES2 outages, after the installation's INITDEF PARTNUM parameter is defined.

Pointed to by:

- The CCTPIT field of the \$HCCT data area in CSA points to the first PIT.
- The \$PITABLE field of the \$HCT data area in the JES2 address space points to the first PIT.
- The PITNEXT field of the previous \$PIT data area points to the next numbered PIT.
- The SJPIT field of a batch-job \$SJB data area points to the PIT representing the initiator under which that job is running.

Serialization: Serialization of the PITs is implicit in the status flags in the PITs, and the way they are used by the JES2 main task. Except for the PITSTAT2 flag byte only the main task can alter the fields in the PITs.

Function: The Partition Information Table (PIT) represents a logic batch-job initiator. JES2 manages multiple logical initiators, which can be separately started, drained, and halted. Each can separately define the ordered list of job classes they will select from.

When an initiator is started by an operator, via a \$S I command, JES2 submits a START command to create a started task address space, running the MVS Initiator program. As that address space is started up, it is associated with the PIT for which it was started. The Initiator then makes generic subsystem-interface calls for any batch job to be run, without care to what job class or other criteria they have. JES2 applies the checks of criteria based on the logical initiator, the PIT.

Logical initiators can be managed as groups. That is, multiple PITs may have the same value in PITPATID. If, for example, 25 PITs are defined during initialization to have NAME= (PITPATID) XYZ, then commands to start, drain, display, etc 'I XYZ' will apply to all 25, and messages will indicate only XYZ (not the original number). The current ASID for the initiator is the only qualifying information.

\$PIT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PIT	HASP PARTITION INFORMATION TBL DSECT
0	(0)	ADDRESS	4	PITNEXT	ADDRESS OF NEXT PIT
4	(4)	ADDRESS	4	PITSJB	ADDRESS OF SJB FOR EXECUTING JOB
8	(8)	ADDRESS	4	PITASCB	Address of initiator's ASCB
12	(C)	ADDRESS	4	PITJQOFF	Offset of initiator's JQE
16	(10)	BITSTRING	1	PITFLAGS	PIT FLAG BYTE
16	(10)	BITSTRING	0	PITDUPJ	"B'10000000" Job with duplicate jobname exists
16	(10)	BITSTRING	0	PITSMVER	"B'01000000" Waiting for memory create
16	(10)	BITSTRING	0	PITSIVER	"B'00100000" PIT Awaiting \$\$I verification
16	(10)	BITSTRING	0	PITSRSOK	"B'00010000" Initiator start-up has progressed far enough to allow automatic restart
17	(11)	BITSTRING	1	PITSTAT	LOGICAL PARTITION STATUS BYTE
17	(11)	BITSTRING	0	PITHOLDA	"B'10000000" PIT is drained (\$P I)
17	(11)	BITSTRING	0	PITHOLD1	"B'01000000" PIT is drained (\$P IN)
17	(11)	BITSTRING	0	PITHOLDR	"B'00100000" PIT is stopped, but not via a command. PIT will automatically be restarted if PITHOLDA and PITHOLD1 are not on.
17	(11)	X'E0	0	PITHOLD	"PITHOLDA+PITHOLD1+PITHOLDR" PIT is drained
17	(11)	BITSTRING	0	PITBUSY	"B'00010000" Partition busy indicator
17	(11)	BITSTRING	0	PITHALTA	"B'00001000" PIT is halted (\$Z I)
17	(11)	BITSTRING	0	PITHALT1	"B'00000100" PIT is halted (\$Z IN)
17	(11)	BITSTRING	0	PITINIT	"B'00000010" OS initiator exists for PIT
17	(11)	BITSTRING	0	PITIDLE	"B'00000001" PIT 'idle' message sent and no jobs are executing on this started initiator
18	(12)	BITSTRING	1	PITSTAT2	PIT status byte that may be updated outside JES2 address space and needs proper serialization. Update to this field should be via OIL/NIL
18	(12)	BITSTRING	0	PIT2NSJB	"B'10000000" Init with no SJB needs to be cleaned up
19	(13)	BITSTRING	1		Reserved for future use

Comment

-
- The PITPATID is the initiator's 'name' or 'id'.
- 1) If NAME= was not coded on an INIT(n) init stmt for the initiator, PITPATID is the character value for its number, left-justified.
 - 2) If NAME= was coded on an initialization stmt for the initiator, PITPATID is that NAME= value, left-justified. The value does not have to be unique (and probably is not).

Commands against PITs can be done with subscript compares in character format, or with numerical indices. For example, \$\$I(1-20) starts all initiators in the numerical range 1-20 regardless of the value of PITPATID. \$\$I(ABC), on the other hand, starts all initiators with a name of ABC in PITPATID.

Normal \$SCAN rules apply when determining whether the specified subscript corresponds to the symbolic name or the numerical index.

End of Comment

20	(14)	CHARACTER	4	PITPATID	Initiator partition 'id'
24	(18)	CHARACTER	36	PITCLASS	LOGICAL PARTITION CLASSES
60	(3C)	BITSTRING	4	PITJBKEY	Job key for INIT STC
60	(3C)	X'40	0	PITLEN	"*-PIT" PIT LENGTH

\$PIT Cross Reference

\$PIT Cross Reference

Name	Hex Offset	Hex Value
PITASCB	8	
PITBUSY	11	10
PITCLASS	18	
PITDUPJ	10	80
PITFLAGS	10	
PITHALTA	11	8
PITHALT1	11	4
PITHOLD	11	E0
PITHOLDA	11	80
PITHOLDR	11	20
PITHOLD1	11	40
PITIDLE	11	1
PITINIT	11	2
PITJBKEY	3C	
PITJQOFF	C	
PITLEN	3C	40
PITNEXT	0	
PITPATID	14	
PITSIVER	10	20
PITSJB	4	
PITSMVER	10	40
PITSRSOK	10	10
PITSTAT	11	
PITSTAT2	12	
PIT2NSJB	12	80

\$PPWORK Programming Interface information

Programming Interface information

\$PPWORK

End of Programming Interface information

\$PPPWORK Heading Information

Common Name: JES2 Print/Punch PCE Work Area
Macro ID: \$PPPWORK
DSECT Name: PCE (\$PPPWORK 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 PPLEN for the length of this work area.
 The overall length of the PCE is stored in field PCELENG.

Created by: See \$PCE for local printers and punches
 Created by \$PCEDYN when RJE devices sign on

Pointed to by: The \$PRTPCE field of the \$HCT data area, and the \$PUNPCE field of the \$HCT data area, and the \$TPPRPCE field of the \$HCT data area, and the \$TPPUPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first Print/Punch PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type.
 The DCTPCE field of the \$DCT data area (see "Function" below)
 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 Print/Punch Processor and by its support routines and exits. \$PPPWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$PPPWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEPRTID or PCEPUNID in the second byte of field PCEID.

The \$PPPWORK mapping is used for printers in JES mode. The PCE work area for printers in FSS mode is mapped by \$FSSWORK.

This PCE is device related. This processor type has a one-to-one relationship to devices. Field PCEDCT points to a Device Control Table (DCT) and field DCTPCE in that DCT points to this PCE.

\$PPPWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP PRINT/PUNCH PROCESSOR
216	(D8)	BITSTRING	1	PPPFLAG1	PRINT/PUNCH FLAG BYTE
216	(D8)	BITSTRING	0	PPP1WRTS	"X'80" PRINT/PUNCH WRITE SWITCH
216	(D8)	BITSTRING	0	PPP1SUSP	"X'40" PRINT/PUNCH SUSPEND SWITCH
216	(D8)	BITSTRING	0	PPP1NSKP	"X'20" No Skip-to-channel-1

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
216	(D8)	BITSTRING	0	PPP1TERM	"X'10" PRINT/PUNCH TERMINATION SWITCH
216	(D8)	BITSTRING	0	PPP1FNCI	"X'08" PUNCH INTERPRET REQUESTED
216	(D8)	BITSTRING	0	PPP1DRER	"X'04" PRINT/PUNCH DATA READ ERROR
216	(D8)	BITSTRING	0	PPP1JIRE	"X'02" PRINT/PUNCH JCT/IOT READ ERROR
217	(D9)	BITSTRING	1	PPPFLAG2	PRINT/PUNCH FLAG BYTE
217	(D9)	BITSTRING	0	PPP2TCEL	"X'80" TRACK-CELL DE-SPOOLING SWITCH
217	(D9)	BITSTRING	0	PPP2READ	"X'40" PRINT/PUNCH READ SWITCH
217	(D9)	BITSTRING	0	PPP2CKPN	"X'20" PRINT/PUNCH CKPT-NEEDED SWITCH
217	(D9)	BITSTRING	0	PPP2CKPA	"X'10" PRINT/PUNCH CKPT-ALLOWED SWITCH
217	(D9)	BITSTRING	0	PPP2PCIW	"X'08" PRINT/PUNCH PCI WAIT SWITCH
217	(D9)	BITSTRING	0	PPP2OPTJ	"X'04" PRINTER OPTCD=J SWITCH
217	(D9)	BITSTRING	0	PPP2FDS	"X'02" FIRST SYSOUT DATA SET SWITCH
217	(D9)	BITSTRING	0	PPP2SMFE	"X'01" DATA BUFFER ERROR FLAG FOR SMF
218	(DA)	BITSTRING	1	PPPFLAG3	PRINT/PUNCH FLAG BYTE 3
218	(DA)	BITSTRING	0	PPP3TRNC	"X'80" TRUNCATE OUTPUT
218	(DA)	BITSTRING	0	PPP3RECV	"X'40" RECOVERY IN PROCESS
218	(DA)	BITSTRING	0	PPP3NAVL	"X'20" DEVICE NO LONGER AVAILABLE
218	(DA)	BITSTRING	0	PPP3CK38	"X'10" 3800 CHECKPOINT FLAG
218	(DA)	BITSTRING	0	PPP3CKRP	"X'08" 3800 REPOSITION BIT
218	(DA)	BITSTRING	0	PPP3CKSU	"X'04" 3800 PPQ SUSPEND BIT
218	(DA)	BITSTRING	0	PPP3CKRS	"X'02" 3800 RESTART BIT G38E
218	(DA)	BITSTRING	0	PPP3INIT	"X'01" FIRST USE BIT
219	(DB)	BITSTRING	1	PPPS6DCI	PRINT/PUNCH SMF FLAGS (SMF6DCI)
220	(DC)	BITSTRING	1	PPPDCTFL	PR/PU/RMT DCT FLAGS (DCTFLAGS)
221	(DD)	BITSTRING	1	PPPBFOPT	PRINT/PUNCH BUFFERING OPTION
222	(DE)	SIGNED	2	PPPBPHPC	PDDB PHYSICAL PAGE COUNT
224	(E0)	SIGNED	4	PPPUUCB	ADDRESS OF OUTPUT DEVICE UCB
228	(E4)	SIGNED	4	PPPXTCCW (0)	3800 SELECT-XTAB CCW OP-CODES
228	(E4)	SIGNED	4	PPPUCCW	ADDRESS OF PUNCH ERROR CCW
232	(E8)	SIGNED	8	PPPTIMON	PRT/PUN SIGN-ON TIME/DATE
240	(F0)	SIGNED	4	PPBFADR	ADDR OF 1ST DATA BUFFER CHAIN
244	(F4)	SIGNED	4	PPBFSAV	ADDR OF NEXT DATA BUFFER CHAIN
248	(F8)	SIGNED	4	PPPJCTBF	ADDRESS OF JCT BUFFER
252	(FC)	SIGNED	4	PPPLCCWA	ADDRESS OF LAST CCW
256	(100)	SIGNED	2	PPPLCCWO	OFFSET TO LAST CCW IN CHAIN
258	(102)	BITSTRING	1	PPPRMSEL	SNA REMOTE SELECT BYTE SAVE AREA
259	(103)	BITSTRING	1	PPP3211I	3211 INDEX VALUE
260	(104)	BITSTRING	1	PPPFLAG4	PRINT/PUNCH FLAG BYTE 4
260	(104)	BITSTRING	0	PPP4PS38	"X'80" 3800 PATH SET INDICATOR
260	(104)	BITSTRING	0	PPP43081	"X'40" WCS PATH INDICATOR
260	(104)	BITSTRING	0	PPP4EX15	"X'20" EXIT 15 SWITCH
260	(104)	BITSTRING	0	PPP4RPBS	"X'10" REPOSITION DUE TO BSPACE
260	(104)	BITSTRING	0	PPP4QSMF	"X'08" \$QUESMFB INDICATOR
260	(104)	BITSTRING	0	PPP4FPRD	"X'04" \$F PRTN,D IN PROGRESS
260	(104)	BITSTRING	0	PPP4FAUT	"X'02" A PDDB within the work JOE failed the authorization check
260	(104)	BITSTRING	0	PPP4CALL	"X'01" All skips to channel treated as new page
261	(105)	BITSTRING	1	PPPFLAG5	PRPU FLAG BYTE 5, HASP185 USE
261	(105)	BITSTRING	0	PPP5DSOP	"B'10000000" DATASET OPEN, NOT CLOSED
261	(105)	BITSTRING	0	PPP5JBK	"B'01000000" INVALID JOB KEY FOR BUFFER
261	(105)	BITSTRING	0	PPP5IDSK	"B'00100000" INVALID DATASET KEY FOR BUFFER
261	(105)	BITSTRING	0	PPP5IOER	"B'00010000" I/O ERROR ON CNTRL BLOCK READ
261	(105)	BITSTRING	0	PPP5IMTT	"B'00001000" INVALID TRACK ADDR FOR READ
261	(105)	BITSTRING	0	PPP5JOE	"B'00000100" PRINT/PUNCH OBSOLETE JOE SWITCH
261	(105)	BITSTRING	0	PPP5AUTF	"B'00000010" AUTHORIZATION FAILED
261	(105)	BITSTRING	0	PPP5T185	"B'00000001" ERROR ENCOUNTERED WHEN DATASET WAS CLOSED
262	(106)	BITSTRING	1	PPPFLAG6	Print/Punch Flag byte 6
262	(106)	BITSTRING	0	PPP6LERR	"B'10000000" Logical error during SWBTUREQ service
262	(106)	BITSTRING	0	PPP6NEWS	"B'01000000" JESNEWS requested and available
262	(106)	BITSTRING	0	PPP6SWBD	"B'00100000" Unsuccessful I/O for SWBITs
262	(106)	BITSTRING	0	PPP6NODS	"B'00010000" No data set found in IOT
262	(106)	BITSTRING	0	PPP6BFER	"B'00001000" Large SMF buffer is too small to hold type 6 with SWBTU

\$PPWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
262	(106)	BITSTRING	0	PPP6DSMR	"B'00000100" PDSMRSWB routine entered
262	(106)	BITSTRING	0	PPP6MRGR	"B'00000010" \$SWBMERG invoked
262	(106)	BITSTRING	0	PPP6ABND	"B'00000001" Abend in PDSMRSWB and/or \$SWBMERG service
263	(107)	BITSTRING	1	PPPFLAG7	Print/Punch Flag byte 7
263	(107)	BITSTRING	0	PPP7RTRI	"B'10000000" Recovering from abend in \$SWBMERG service
263	(107)	BITSTRING	0	PPP7SMRC	"B'01000000" Abend in \$SWBMERG cleanup call
263	(107)	BITSTRING	0	PPP7SMFU	"B'00100000" SMF RECORD UPDATED
263	(107)	BITSTRING	0	PPP7TRAN	"B'00010000" Translate lines
263	(107)	BITSTRING	0	PPP71PPF	"B'00001000" In case of impact printer restarting from backspace
264	(108)	BITSTRING	1		RESERVED FOR FUTURE USE
265	(109)	BITSTRING	1	PPPSAVDF	WORK AREA FOR SPACING FLAG
266	(10A)	BITSTRING	1	PPPJOEFL	COPY OF JOEFLAG1
267	(10B)	BITSTRING	2	PPPFCEBMP	FCB BIT MAP
269	(10D)	BITSTRING	1	PPPERCNT	PERM ERP ERROR COUNT
270	(10E)	SIGNED	2	PPPBFRLC	NO. OF LRC WITHIN CURRENT BUFFR
272	(110)	SIGNED	4	PPPRCBSV	RCB WORK AREA
280	(118)	DBL WORD	8	PPPCCWRK	CCW ANALYSIS SAVE AREA
288	(120)	SIGNED	4	PPPNUMR	PAGE NUMBER FOR RE-POSITIONING
292	(124)	BITSTRING	1	PPPBUFRO	BUFFER OFFSET FOR RE-POSITIONING
293	(125)	BITSTRING	1	PPPBUFAV	COUNT OF AVAILABLE INPUT BUFFERS
294	(126)	BITSTRING	1	PPPDSCPY	DATA SET COPY COUNT
295	(127)	BITSTRING	1	PPPPDIRI	PDIR IDENTIFIER
296	(128)	ADDRESS	4	PPPCHKBF	ADDRESS OF CHK BUFFER
300	(12C)	ADDRESS	4	PPPSSEA	Address of the ES section in the SMF type 24 record
304	(130)	SIGNED	2	PPPNSWB	Number of SWBITS for a Pddb
306	(132)	SIGNED	2	PPPTUSUM	Total size of all SWBTUs
308	(134)	BITSTRING	1	PPPRESP	Copy of the response byte returned from Exit 1 & 15
309	(135)	BITSTRING	1	PPPSEPPG	Copy of \$SEPPAGE from HCT
310	(136)	SIGNED	2	PPPSPCTR	Separator page counter
312	(138)	SIGNED	4	PPPIOTT	Track address of the IOT for the 1st Pddb of the JOE
316	(13C)	ADDRESS	4	PPPIOTA	Buffer address of the IOT for the 1st Pddb of the JOE
320	(140)	SIGNED	4	PPPPDDB	Address of the 1st Pddb of the JOE
324	(144)	SIGNED	4	PPPSWTR	Address of the 1st SWBIT MTR of the JOE
328	(148)	SIGNED	4	PPPSWBIT	Address of SWBIT chain
332	(14C)	SIGNED	4	PPPTURET	Address of TU Pointer List for SWBTUREQ RETRIEVE
336	(150)	SIGNED	4	PPPTUSPL	Address of TU Pointer List for SWBTUREQ SPLICE
340	(154)	SIGNED	4	PPPKYLST	Address of the Key List used for SWBTUREQ SERVICE
344	(158)	SIGNED	4	PPPTUADR	Address of TU output area used for SWBTUREQ SERVICE
348	(15C)	ADDRESS	4	PPPJSWBT	Address of JOE SWBIT chain
352	(160)	SIGNED	2	PPPMOSZ	Modify SWBTU size
354	(162)	SIGNED	2	PPPMESZ	Merged SWBTU size
356	(164)	ADDRESS	4	PPPMEST	Merged SWBTU address
360	(168)	ADDRESS	4	PPPSBMPL	Address of \$SWBMERG parameter list
364	(16C)	SIGNED	2	PPPTUSZ	Size of the TU output area used for SWBTUREQ SERVICE
366	(16E)	SIGNED	2	PPPADNUM	Number of lines of ADDRESS
368	(170)	ADDRESS	4	PPPIOB2	Save field for the IIOB
372	(174)	ADDRESS	4	PPPBFSV2	Buffer save field
376	(178)	ADDRESS	4	PPPBFA2	Buffer save field
380	(17C)	SIGNED	4	PPPSEGID	Segment ID for SPIN data sets
384	(180)	ADDRESS	4	PPXPARM	Exit point parameter list
388	(184)	BITSTRING	6	PPPWKPTN	Segment number work area
394	(18A)	BITSTRING	2	PPPSWBRC	Logical error return code
396	(18C)	BITSTRING	4	PPPSWBRS	Logical error reason code
400	(190)	BITSTRING	1	PPPHRSN	JOE hold reason
401	(191)	BITSTRING	3		Reserved for future use
404	(194)	CHARACTER	36	PPPERMSG	Logical error message
440	(1B8)	ADDRESS	4	PPPIOTAD	Address of IOT buffer save area
444	(1BC)	CHARACTER	80	PPBUFSV	PCOMMENT WORK AREA
448	(1C0)	DBL WORD	8	PPSSRWK	SEPARATOR SERVICE RTN WORK

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
BEGIN PRINT/PUNCH CHECKPOINT DATA AREA. THESE FIELDS MUST CORRESPOND EXACTLY TO THE CHKJESWK FIELDS MAPPED IN THE CHK DSECT.					
End of Comment					
524	(20C)	SIGNED	4	(0)	FORCE FULLWORD ALIGNMENT
524	(20C)	SIGNED	2	PPPEBR CB	NUMBER OF LAST EJECT RCB
526	(20E)	SIGNED	2	PPPDDBDS	CURRENT Pddb DISPLACEMENT
528	(210)	SIGNED	4	PPPDDBPC	CURRENT Pddb PAGE COUNTER
532	(214)	SIGNED	4	PPPLCNT	CURRENT LINE OR CARD COUNT
536	(218)	SIGNED	4	PPPPAGCT	CURRENT PAGE COUNT (PHYSICAL)
540	(21C)	SIGNED	4	PPPLEBTR	LAST EJECT BUFFER MTTR
544	(220)	SIGNED	4	PPPIOTTR	CURRENT IOT MTTR
548	(224)	BITSTRING	1	PPPCOPCT	COPY COUNTER
549	(225)	BITSTRING	1	PPPLEBOF	LAST EJECT BUFFER OFFSET
550	(226)	BITSTRING	1	PPPCGCNT	CURRENT COPY GROUP COUNT
551	(227)	BITSTRING	1	PPPDST	CURRENT DATA SET COUNT
Comment					
KEEP NEXT TWO FIELDS TOGETHER FOR \$DU COMMAND					
End of Comment					
552	(228)	SIGNED	4	PPPRECNM	CURRENT RECORD NUMBER
556	(22C)	SIGNED	4	PPPPAGNM	CURRENT PAGE NUMBER
556	(22C)	X'C 00024'	0	PPPCKPTD	"PPPEBR CB,*-PPPEBR CB" CKPT-DATA EQUATE AND LENGTH
Comment					
END PRINT/PUNCH CHECKPOINT DATA AREA.					
End of Comment					
560	(230)	SIGNED	4	(0)	ESTABLISH THE
556	(22C)	SIGNED	4	PPPDADCT (0)	USING STORAGE FOR THE DCT FIELDS NOT IN A DA DCT
560	(230)	SIGNED	4	(0)	DA DCT FOR \$EXCP
584	(248)	SIGNED	4	PPPDEVTP	PRINT/PUNCH DEVICE TYPE
584	(248)	X'4B 00001'	0	PPPDEVB1	"PPPDEVTP+3,1" UCB BYTE4 HAS 1BYTE DEV CODE
584	(248)	X'4A 00001'	0	PPPDEVB2	"PPPDEVTP+2,1" UCB BYTE3 HAS 1BYTE CODE
588	(24C)	SIGNED	4	PPPLSAVE	LINK REGISTER SAVE WORD
592	(250)	SIGNED	4	PPPLNECT	MAXIMUM LINES PER PAGE
596	(254)	SIGNED	4	PPPLC	PRINT/PUNCH PAGE LINE COUNTER
600	(258)	SIGNED	2	PPPCKPPS	LOG PAGES/CKPT SAVE AREA
602	(25A)	SIGNED	2	PPPCKPP	LOG PAGES/CKPT COUNTER
604	(25C)	SIGNED	2	PPPCKPLS	LINES/LOG PAGE SAVE AREA
606	(25E)	SIGNED	2	PPPCKPL	LINES/LOG PAGE COUNTER
608	(260)	SIGNED	4	PPPWKJOE	ADDRESS OF WORK JOE
612	(264)	SIGNED	4	PPPCHJOE	A(CHARACTERISTICS JOE)
616	(268)	CHARACTER	8	PPPWKFRM	WORK AREA FOR DEVICE FORMS
624	(270)	CHARACTER	0	PPPWKWF (0)	BACKUP AREA FOR LIST OF FORMS
688	(2B0)	CHARACTER	8	PPBLKWK (0)	WORK AREA FOR BLOCK ROUTINE
688	(2B0)	CHARACTER	4	PPPWKFCB	WORK AREA FOR DEVICE FCB
692	(2B4)	CHARACTER	4	PPPWKUCS	WORK AREA FOR DEVICE UCS
696	(2B8)	SIGNED	4	PPBSPCT	BSP FRAME PAGE COUNTER
700	(2BC)	SIGNED	4	PPPLNDSP (0)	PRT BLK LETTER NEW LINE DISPLT
700	(2BC)	BITSTRING	4	PPPUCCW	MTTR OF LAST PU CCW
704	(2C0)	SIGNED	2	PPPLNCTR (0)	PRT BLK LETTER LINE COUNTER
704	(2C0)	BITSTRING	2	PPPURCB	RCB OF LAST PU CCW
706	(2C2)	BITSTRING	1	PPPUBOF	BUFFER OFFSET OF LAST PU CCW
707	(2C3)	BITSTRING	1	PPPL3625	LAST 3525 PRINT LINE COMMAND
708	(2C4)	BITSTRING	1	PPPRSC38	MOST RECENT 3800 SELECT CCW

\$PPWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
709	(2C5)	BITSTRING	1	PPPTRC38	MAXIMUM 3800 TABLE REF CHAR VALUE
710	(2C6)	CHARACTER	80	PPPMMSG	MESSAGE WORK AREA
710	(2C6)	X'C6 00008'	0	PPPMMSFRM	"PPPMMSG,L'PDBFORMS" SAVE AREA FOR FORMS
710	(2C6)	X'CE 00004'	0	PPPMMSFCB	"PPPMMSG+L'PDBFORMS,L'PDBFCB" SAVE AREA FOR FCB
710	(2C6)	X'D2 00004'	0	PPPMMSUCS	"PPPMMSG+L'PDBFORMS+L'PDBFCB,L'PDBUCS" SAVE AREA UCS
790	(316)	CHARACTER	8	PPPSFORM	SETUP FORM NUMBER
798	(31E)	CHARACTER	4	PPPSFCB	SETUP FCB IMAGE
802	(322)	CHARACTER	4	PPPSCHR1	SETUP TRANSLATE TABLE 1
806	(326)	CHARACTER	4	PPPSCHR2	SETUP TRANSLATE TABLE 2
810	(32A)	CHARACTER	4	PPPSCHR3	SETUP TRANSLATE TABLE 3
814	(32E)	CHARACTER	4	PPPSCHR4	SETUP TRANSLATE TABLE 4
818	(332)	CHARACTER	4	PPPSFLSH	SETUP FLASH ID
822	(336)	CHARACTER	4	PPPSMODI	SETUP MODIFICATION IMAGE
826	(33A)	BITSTRING	1	PPPSFLSC	SETUP FLASH COUNT
827	(33B)	BITSTRING	1	PPPSMODT	SETUP MODIFICATION TRC
828	(33C)	BITSTRING	1	PPPSFCOP	SETUP STARTING COPY NUMBER
829	(33D)	BITSTRING	1	PPPSFCOPN	SETUP NO. COPIES THIS XMISSION
830	(33E)	BITSTRING	1	PPPSFL38	3800 SETUP FLAG
830	(33E)	BITSTRING	0	PPPSBRST	"B'10000000" SETUP BURST=YES FLAG
830	(33E)	BITSTRING	0	PPPSREXM	"B'01000000" RETRANSMISSION FLAG
830	(33E)	BITSTRING	0	PPPSSEP	"B'00100000" SETUP FOR SEPARATORS
830	(33E)	BITSTRING	0	PPPSNFLS	"B'00010000" SETUP FLASH=NO FLAG
830	(33E)	BITSTRING	0	PPPSPCMD	"B'00001000" SETUP FOR CMD MSG
831	(33F)	BITSTRING	1		Reserved for future use
832	(340)	CHARACTER	8	PPPKEY (0)	JOB KEY AND DATA SET KEY
832	(340)	CHARACTER	4	PPPJKEY	JOB KEY FROM JCT
836	(344)	CHARACTER	4	PPPSKEY	DATA SET KEY FROM PDDB
840	(348)	BITSTRING	2	PPPSORT	Sort key generation field (low order two bytes of PDBCRTME)
842	(34A)	BITSTRING	2		Reserved
844	(34C)	SIGNED	4	PPPSBPGC	\$/B PAGE COUNT
848	(350)	SIGNED	4	PPPOIOB	OUTPUT IOB ADDRESS
852	(354)	SIGNED	4	PPPIIOB	INPUT IOB ADDRESS
856	(358)	SIGNED	4	PPPOCCWP	PRIMARY OUTPUT CCW AREA
860	(35C)	SIGNED	4	PPPOCCWS	SECONDARY OUTPUT CCW AREA
864	(360)	SIGNED	4	PPPNCEL	MTTR OF NEXT TRAKCELL
868	(364)	SIGNED	4	PPPTRBFT	ADDR OF MTTR/BUFFER ADDR TABLE
872	(368)	SIGNED	4	PPPSCKPTP	CHECKPOINT DATA POINTER
876	(36C)	ADDRESS	4	PPSIMDTE	ADDR OF HASPIMAG TASK DTE
880	(370)	SIGNED	4	PPPRATAD (0)	SAVE AREA FOR RAT ADDRESS
880	(370)	SIGNED	4	PPPPQH38	3800 PAGE QUEUE HEADER ADR G38E
884	(374)	SIGNED	4	PPPSRCT	DATA SET RECORD COUNT
888	(378)	SIGNED	4	PPPNBLK	NUMBER OF DATA BLOCKS READ
892	(37C)	SIGNED	4	PPPSMFBF	SMF BUFFER SAVE AREA
896	(380)	SIGNED	4	PPPSMFPQ	SMF BUFS ON PAGE QUEUE
900	(384)	BITSTRING	1	PPPS38	PREVIOUS 3800 STARTING COPY NO.
901	(385)	BITSTRING	1	PPPS38C	PREVIOUS 3800 COPY COUNT
902	(386)	BITSTRING	8	PPPS38G	3800 COPY GROUPS DISTRIBUTION
910	(38E)	BITSTRING	1	PPPS38F	3800 FLASH COUNT
911	(38F)	BITSTRING	1	PPPS38FLC	PREVIOUS FLASH COUNT
912	(390)	CHARACTER	28	PPPS38SPT	FOUR ENTRY BACKSPACE TABLE
940	(3AC)	ADDRESS	4	PPPS38BUF	BUFFER OBTAINED IN \$#GET

Comment

PARAMETER LIST FOR PRTAUTH ROUTINE CALLED FROM HASPPRPU.
THIS MATCHES THE ONE DEFINED IN \$FSACB.

End of Comment

944	(3B0)	SIGNED	4	PPS38PARM (0)	PARAM LIST FOR PRTAUTH
944	(3B0)	ADDRESS	4	PPS38JCTAD	JCT ADDRESS
948	(3B4)	ADDRESS	4	PPS38PDDBA	PDDB ADDRESS
952	(3B8)	ADDRESS	4	PPS38ANews	JESNEWS ADDRESS

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
956	(3BC)	CHARACTER	40	PPLOGST	LOG STRING (ENTITY NAME WITH LENGTH IN THE FIRST BYTE)
996	(3E4)	ADDRESS	4		RESERVED FOR FUTURE USE
996	(3E4)	X'38	0	PPPAPLEN	**PPPAPARM" LENGTH OF PRTAUTH PARMLIST END OF PRTAUTH PARM LIST

Comment

Work area for ASAXWC macros
MACDATE -05/30/00-<0>

End of Comment

0	(0)	X'E8	0	M00M1011	"PPPLIST" ++ ASAXWC NAME
1000	(3E8)	SIGNED	4	PPPLIST (0)	++ ASAXWC PARM LIST
1000	(3E8)	ADDRESS	4	PPPLIST_XPATTERNSTR_ADDR	++ ADDR XPATTERNSTR
1004	(3EC)	SIGNED	4	PPPLIST_XPATTERNSTRLEN	++ XPATTERNSTRLEN
1008	(3F0)	ADDRESS	4	PPPLIST_XSTRING_ADDR	++ ADDR XSTRING
1012	(3F4)	SIGNED	4	PPPLIST_XSTRINGLEN	++ XSTRINGLEN
1016	(3F8)	ADDRESS	4	PPPLIST_XZEROORMORE_ADDR	++ ADDR XZEROORMORE
1020	(3FC)	ADDRESS	4	PPPLIST_XONECHAR_ADDR	++ ADDR XONECHAR
1024	(400)	ADDRESS	4	PPPLIST_XDELIMITER_ADDR	++ ADDR XDELIMITER
1024	(400)	X'1C	0	PPPLISTL	**PPPLIST" ++ LENGTH OF PLIST

Comment

ASAXWC-0

End of Comment

1028	(404)	BITSTRING	256	PPPAREA	Work area passed to ASAXWC
1284	(504)	SIGNED	4	PPPOILNL (3)	OIL/NIL regs save area
1296	(510)	DBL WORD	8	(0)	
1296	(510)	X'38	0	PPPLEN	**PCEWORK" SIZE OF PPU PCE WORK AREA

\$PPPWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
M00M1011	0	E8	PPPCCWRK	118	
PPPADNUM	16E		PPPCGCNT	226	
PPPANEWS	3B8		PPPCGR28	386	
PPPAPARM	3B0		PPPCHJOE	264	0
PPPAPLEN	3E4	38	PPPCHKBF	128	
PPPAREA	404		PPPCKPL	25E	
PPPBFADR	F0		PPPCKPLS	25C	
PPPBFAD2	178		PPPCKPP	25A	
PPPBFRLC	10E		PPPCKPPS	258	
PPPBFOPT	DD		PPPCKPTD	22C	C 00024
PPPBFSAV	F4		PPPCKPTP	368	
PPPBFV2	174		PPPCOPCT	224	
PPPBLKWK	2B0		PPPDADCT	22C	
PPPBPBPC	DE		PPPDCTFL	DC	
PPPBSPT	2B8		PPPDDBDS	20E	
PPPBSPT	390		PPPDDBPC	210	
PPPBUFAV	125		PPPDEVB1	248	4B 00001
PPPBUFER	3AC		PPPDEVB2	248	4A 00001
PPPBUFRO	124		PPPDEVTP	248	
PPPBUFSV	1BC		PPPDSCP	126	

\$PPWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value	
PPPSCT	227		PPMSFCB	2C6	CE	00004
PPPSKEY	344		PPMSFRM	2C6	C6	00008
PPPSORT	348		PPMSG	2C6		
PPPSRCT	374		PPMSUCS	2C6	D2	00004
PPPEBRCB	20C		PPPNBLK	378		
PPPERCNT	10D		PPNSWB	130		
PPPERMSG	194		PPNTCEL	360		
PPFBPGC	34C		PPPOCCWP	358		
PPFCBMP	10B		PPPOCCWS	35C		
PPFIOTA	13C		PPPOILNL	504		
PPFIOTT	138		PPPOIOB	350		
PPFLAG1	D8		PPPPAGCT	218		
PPFLAG2	D9		PPPPAGNM	22C		
PPFLAG3	DA		PPPPCC38	385		
PPFLAG4	104		PPPPDDBA	3B4		
PPFLAG5	105		PPPPDIRI	127		
PPFLAG6	106		PPPPPLC	254		
PPFLAG7	107		PPPPNUMR	120		
PPFLC38	38E		PPPPQH38	370		
PPFPDDB	140		PPPPRFLC	38F		
PPFSWTR	144		PPPPSC38	384		
PPHRSN	190		PPPPUBFO	2C2		
PPHIOB	354		PPPPUCCW	2BC		
PPHIOB2	170		PPPPURCB	2C0		
PPIMDTE	36C		PPPRATAD	370		
PPPIOTAD	1B8		PPPRCBSV	110		
PPPIOTTR	220		PPPRECNM	228		
PPPJCTAD	3B0		PPPRES	134		
PPPJCTBF	F8		PPPRMSEL	102		
PPPJKEY	340		PPPRSC38	2C4		
PPPJOEFL	10A		PPPSAVDF	109		
PPJSWBT	15C		PPPSBMPL	168		
PPKEY	340		PPPSBRST	33E	80	
PPKYLST	154		PPPSCHR1	322		
PPPLCCNT	214		PPPSCHR2	326		
PPPLCCWA	FC		PPPSCHR3	32A		
PPPLCCWO	100		PPPSCHR4	32E		
PPPLEBOF	225		PPPSOPN	33D		
PPPLEBTR	21C		PPPSGID	17C		
PPPLEN	510	38	PPPSSEPPG	135		
PPPLIST	3E8		PPPSSESA	12C		
PPPLIST_XDELIMITER_ADDR	400		PPPSFCB	31E		
PPPLIST_XONECHAR_ADDR	3FC		PPPSFLSC	33A		
PPPLIST_XPATTERNSTR_ADDR	3E8		PPPSFLSH	332		
PPPLIST_XPATTERNSTRLEN	3EC		PPPSFL38	33E		
PPPLIST_XSTRING_ADDR	3F0		PPPSFORM	316		
PPPLIST_XSTRINGLEN	3F4		PPPSMFBF	37C		
PPPLIST_XZEROORMORE_ADDR	3F8		PPPSMFPQ	380		
PPPLISTL	400	1C	PPPSMODI	336		
PPPLNCTR	2C0		PPPSMODT	33B		
PPPLNDSP	2BC		PPPSNFLS	33E	10	
PPPLNECT	250		PPSPCMD	33E	8	
PPPLLOGST	3BC		PPSPCTR	136		
PPPLSAVE	24C		PPPSREXM	33E	40	
PPPL3625	2C3		PPPSSEXP	33C		
PPPMEST	164		PPPSSEP	33E	20	
PPPMESZ	162		PPPSRWK	1C0		
PPPMOSZ	160		PPPSWBIT	148		
			PPPSWBRC	18A		
			PPPSWBRS	18C		
			PPPS6DCI	DB		
			PPPTIMON	E8		
			PPPTRBFT	364		
			PPPTRC38	2C5		
			PPPTUADR	158		

Name	Hex Offset	Hex Value
PPPTURET	14C	
PPPTUSPL	150	
PPPTUSUM	132	
PPPTUSZ	16C	
PPPUCB	E0	
PPPUECCW	E4	
PPPWKFCB	2B0	
PPPWKFRM	268	
PPPWKJOE	260	0
PPPWKPTN	184	
PPPWKUCS	2B4	
PPPWKWFM	270	
PPPXPARM	180	
PPPXTCCW	E4	
PPP1DRER	D8	4
PPP1FNCI	D8	8
PPP1JIRE	D8	2
PPP1NSKP	D8	20
PPP1SUSP	D8	40
PPP1TERM	D8	10
PPP1WRTS	D8	80
PPP2CKPA	D9	10
PPP2CKPN	D9	20
PPP2FDS	D9	2
PPP2OPTJ	D9	4
PPP2PCIW	D9	8
PPP2READ	D9	40
PPP2SMFE	D9	1
PPP2TCEL	D9	80
PPP3CKRP	DA	8
PPP3CKRS	DA	2
PPP3CKSU	DA	4
PPP3CK38	DA	10
PPP3INIT	DA	1
PPP3NAVL	DA	20
PPP3RECV	DA	40
PPP3TRNC	DA	80
PPP3211I	103	
PPP4CALL	104	1
PPP4EX15	104	20
PPP4FAUT	104	2
PPP4FPRD	104	4
PPP4PS38	104	80
PPP4QSMF	104	8
PPP4RPBS	104	10
PPP43081	104	40
PPP5AUTF	105	2
PPP5DSOP	105	80
PPP5IDSK	105	20
PPP5JJBK	105	40
PPP5IMTT	105	8
PPP5IOER	105	10
PPP5OJOE	105	4
PPP5T185	105	1
PPP6ABND	106	1
PPP6BFER	106	8
PPP6DSMR	106	4
PPP6LERR	106	80
PPP6MRGR	106	2
PPP6NEWS	106	40
PPP6NODS	106	10
PPP6SWBD	106	20
PPP7RTRI	107	80
PPP7SMFU	107	20
PPP7SMRC	107	40

Name	Hex Offset	Hex Value
PPP7TRAN	107	10
PPP71PPF	107	8

\$PPWORK Cross Reference

\$PQE Programming Interface information

Programming Interface information

\$PQE

End of Programming Interface information

\$PQE Heading Information

Common Name: JES2 3800 Page Queue Entry
Macro ID: \$PQE
DSECT Name: PQE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: 0
 Key: 1
 Residency: Virtual and real storage are anywhere, above or below 16M, in private storage of the JES2 address space.
Size: See PQELENG
Created by: JES2 Print/Punch PCE for a 3800 printer
Pointed to by: PQENEXT field of the PQE data area
 PQEPREV field of the PQE data area
 PQECPQED field of the PQE data area
 PQEJNEXT field of the PQE data area
 PQHFIRST field of the PQH data area
 PQHLAST field of the PQH data area
 PQHFREE field of the PQH data area
 PQHOPQE field of the PQH data area
 PQHTPQE field of the PQH data area
 PQHPQEJ field of the PQH data area
Serialization: Serialized under the JES2 TCB
Function: The PQEs contain 3800 printer page information

\$PQE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PQE	3800 PAGE QUEUE ENTRY G38E
0	(0)	SIGNED	4	PQENEXT	ADDRESS OF NEXT PQE G38E
4	(4)	SIGNED	4	PQEPREV	ADDRESS OF PREVIOUS PQE G38E
8	(8)	SIGNED	4	PQEHDR	ADDRESS OF EXTENT HEADER
12	(C)	BITSTRING	1	PQETYPE	TYPE OF PQE G38E
12	(C)	BITSTRING	0	PQEC	"B'10000000" CHECKPOINT PQE G38E
12	(C)	BITSTRING	0	PQES	"B'01000000" SMF TYPE 6 PQE G38E
12	(C)	BITSTRING	0	PQEJ	"B'00100000" JOB START PQE G38E
12	(C)	BITSTRING	0	PQED	"B'00010000" DATA SET PQE G38E
13	(D)	BITSTRING	1	PQESPEC (0)	START OF SPECIFIC SECTION G38E

Comment

PQE FIELDS -- USED AS A CHECKPOINT ENTRY G38E

End of Comment

13	(D)	BITSTRING	1	PQECFLAG	CHECKPOINT PQE FLAG G38E
13	(D)	BITSTRING	0	PQECFPG	"B'10000000" FIRST PAGE OF DATA SET G38E
13	(D)	BITSTRING	0	PQECLPG	"B'01000000" LAST PAGE OF DATA SET G38E
13	(D)	BITSTRING	0	PQECBSP	"B'00100000" PQE SAVED FOR BACKSPACE G38E
14	(E)	SIGNED	2	PQECPGID	CHANNEL PAGE ID G38E
16	(10)	SIGNED	4	PQECSENS (0)	ADR OF SENSED ID AND FCBLN G38E
16	(10)	SIGNED	2	PQERPGID	REPOSITION PAGE ID G38E
18	(12)	SIGNED	2	PQEFCLN	FCB LINE POSITION G38E
20	(14)	SIGNED	4	PQECPQED	ADDRESS OF DATA SET PQE G38E
24	(18)	SIGNED	4	PQECPPCT	PDDDB LOGICAL PAGE COUNT G38E
28	(1C)	SIGNED	4	PQECTLNC	TOTAL JOE LINE COUNT G38E
32	(20)	SIGNED	4	PQECTPCT	TOTAL JOE PAGE COUNT G38E
36	(24)	SIGNED	4	PQECMTR	MTRR OF SPOOL DATA G38E

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
40	(28)	SIGNED	4	PQECRECN	# RECORDS PRINTED SO FAR G38E
44	(2C)	SIGNED	2	PQECJRCB	DISP INTO EJECT BUFFER G38E

Comment

PQE FIELDS -- USED AS AN SMF TYPE 6 PQE G38E

End of Comment

13	(D)	BITSTRING	1		CHECKPOINT PQE FLAG G38E
14	(E)	SIGNED	2		CHANNEL PAGE ID G38E
16	(10)	SIGNED	2		REPOSITION PAGE ID G38E
18	(12)	SIGNED	2		FCB LINE POSITION G38E
20	(14)	SIGNED	4	PQESBUF	ADDRESS OF SMF BUFFER G38E

Comment

PQE FIELDS -- USED AS A JOB START PQE G38E

End of Comment

13	(D)	BITSTRING	1		CHECKPOINT PQE FLAG G38E
14	(E)	SIGNED	2		CHANNEL PAGE ID G38E
16	(10)	SIGNED	2		REPOSITION PAGE ID G38E
18	(12)	SIGNED	2		FCB LINE POSITION G38E
20	(14)	SIGNED	4	PQEJWJOE	ADDRESS OF WORK JOE G38E
24	(18)	SIGNED	4	PQEJNEXT	ADR OF NEXT PQEJ ON QUEUE G38E

Comment

PQE FIELDS -- USED AS A DATA SET PQE G38E

End of Comment

13	(D)	BITSTRING	1	PQEDCOPY	COPY NUMBER IN PROGRESS G38E
14	(E)	BITSTRING	1	PQEDCPYG	OFFSET INTO COPY GROUP G38E
15	(F)	BITSTRING	1	PQEDTNSD	TOTAL JOE DATA SET COUNT G38E
16	(10)	SIGNED	4	PQEDWJOE	ADDRESS OF WORK JOE G38E
20	(14)	SIGNED	4	PQEDIOTR	CURRENT IOT TRACK ADDRESS G38E
24	(18)	SIGNED	4	PQEDJBNO	Job number
28	(1C)	BITSTRING	4	PQEDJKEY	JOB IDENTIFIER KEY G38E
32	(20)	SIGNED	2	PQEDPDDB	DISP OF PDDB INTO IOT G38E
34	(22)	BITSTRING	1	PQEDCGCT	COPY GROUP CT FOR DATA SET G38E
35	(23)	BITSTRING	1	PQEDFLAG	DATA SET PQE FLAG BYTE G38E
35	(23)	BITSTRING	0	PQEDLAST	"B'10000000" LAST DATA SET OF JOE G38E
35	(23)	BITSTRING	0	PQEDCAN	"B'01000000" JOE CANCELLED G38E
35	(23)	BITSTRING	0	PQEDINT	"B'00100000" JOE INTERRUPTED G38E
35	(23)	BITSTRING	0	PQEDRPT	"B'00010000" JOE REPEATED G38E
35	(23)	BITSTRING	0	PQEDRST	"B'00001000" JOE RESTARTED G38E
35	(23)	BITSTRING	0	PQEDALOC	"B'00000100" ALLOCATION IOT G38E
35	(23)	BITSTRING	0	PQEDCJP	"B'00000010" JOE CANCELLED BY \$CJP
35	(23)	BITSTRING	0	PQEDADD	"B'00000001" JOE ADDED FOR \$EPRT
36	(24)	BITSTRING	8	PQEDCGRP	DATASET COPY GROUPS
44	(2C)	BITSTRING	1	PQEDSCPY	DATASET COPY COUNT
45	(2D)	BITSTRING	4	PQEDSKEY	DATASET KEY
49	(31)	BITSTRING	2	PQEDSORT	Sort key generation field (low order two bytes of PDBCRTME)
51	(33)	BITSTRING	1	PQEFLAGF	FREE PQE INDICATOR
51	(33)	BITSTRING	0	PQEFFFREE	"X'FF" ON FREE QUEUE
52	(34)	SIGNED	4	PQEEND (0)	END OF PQEC G38E
52	(34)	X'C 00028'	0	PQECDATA	"PQETYPE,PQEEND-PQETYPE" START OF PQE DATA
52	(34)	X'34	0	PQELENG	"PQEEND-PQE" LENGTH OF PQEC G38E

\$PQE Cross Reference

\$PQE Cross Reference

Name	Hex Offset	Hex Value	
PQEC	C	80	
PQECBSP	D	20	
PQECFLAG	D		
PQECFPG	D	80	
PQECJRCB	2C		
PQECLPG	D	40	
PQECMTTR	24		
PQECPGID	E		
PQECPPCT	18		
PQECQED	14		
PQECRECN	28		
PQECSENS	10		
PQECTLNC	1C		
PQECTPCT	20		
PQED	C	10	
PQEDADD	23	1	
PQEDALOC	23	4	
PQEDATA	34	C	00028
PQEDCAN	23	40	
PQEDCGCT	22		
PQEDCGRP	24		
PQEDCJP	23	2	
PQEDCOPY	D		
PQEDCPYG	E		
PQEDFLAG	23		
PQEDINT	23	20	
PQEDIOTR	14		
PQEDJBNO	18		
PQEDJKEY	1C		
PQEDLAST	23	80	
PQEDPDDB	20		
PQEDRPT	23	10	
PQEDRST	23	8	
PQEDSCPY	2C		
PQEDSKEY	2D		
PQEDSORT	31		
PQEDTND	F		
PQEDWJOE	10		
PQEEND	34		
PQEFCBLN	12		
PQEFFREE	33	FF	
PQEFLAGF	33		
PQEHDR	8		
PQEJ	C	20	
PQEJNEXT	18		
PQEJWJOE	14		
PQELENG	34	34	
PQENEXT	0		
PQEPREV	4		
PQERPGID	10		
PQES	C	40	
PQESBUF	14		
PQESPEC	D		
PQETYPE	C		

\$PREBERT Heading Information

Common Name: Prefix for BERT processing
Macro ID: \$PREBERT
DSECT Name: PREBERT and PBEUSER
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: Varies according to block being mapped
 Offset: 0
 Length: 4

Storage Attributes: Subpool: 0
 Key: 1 or 8 (Depends upon whether the control following this prefix is READONLY or UPDATE)
 Residency: JES2 address space, above or below the line

Size: See PBESIZE and PBEUSIZE

Created by: Any service routine which in turn uses the \$DOGBERT service routine.

Pointed to by: \$PBELST field of the \$HCT data area points to chain of locked PREBERTs in UPDATE mode
 PBEUSERS field of the PREBERT points to first PBEUSER
 PBEUPBEU field of the PBEUSER points to next PBEUSER
 Implicitly pointed to by anyone calling the \$DOGBERT service. The PREBERT is always in front of the block of memory specified via \$CBADDR keyword

Serialization: None

Function: The PREBERT is used by the \$DOGBERT service to control and record access to data in the BERT.
 The PBEUSER is used by \$DOGJQE service to control stack of users using a given PREBERT in UPDATE mode.

\$PREBERT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PREBERT	, Prefix for BERT processing
0	(0)	CHARACTER	4	PBEID	Identity of block following
4	(4)	BITSTRING	4	PBETOKEN	BERT token
8	(8)	BITSTRING	20	PBEUSERS	Owner information (see PBEUSER DSECT for mapping)
28	(1C)	ADDRESS	4	PBEPCE	PCE address or zero
32	(20)	ADDRESS	4	PBENEXT	Address of next PREBERT on PCE chain
36	(24)	ADDRESS	4	PBEPREV	Address of previous PREBERT on PCE chain
40	(28)	BITSTRING	8	PBEPWAIT	Time PCE last \$WAITed when \$DOGBERT called for FETCH - or - Time PCE ABENDED while owning the BERT lock
48	(30)	SIGNED	4	PBEINDEX	Index into CTENT for block
52	(34)	BITSTRING	1	PBEUSEQ	Update sequence field (managed by \$DOGBERT)
53	(35)	BITSTRING	3		Reserved
56	(38)	BITSTRING	1	PBEFLAG1	Access flags (managed by DOGBERT, INIT, and TERM)
56	(38)	BITSTRING	0	PBE1UPDT	"B'10000000" UPDATE mode
56	(38)	BITSTRING	0	PBE1READ	"B'01000000" READ mode
56	(38)	BITSTRING	0	PBE1SPEC	"B'00100000" SPECIAL mode
56	(38)	BITSTRING	0	PBE1DOGB	"B'00010000" DOGBERT used to construct block
56	(38)	BITSTRING	0	PBE1NEWB	"B'00001000" New BERT was obtained
56	(38)	BITSTRING	0	PBE1ABND	"B'00000100" Owned by ABENDING PCE
56	(38)	BITSTRING	0	PBE1PRE4	"B'00000010" Fetch done in pre-R4 mode
56	(38)	BITSTRING	0	PBE1PAD	"B'00000001" Retain maximum BERTs
57	(39)	BITSTRING	1	PBEFLAG2	Flags (managed by services at a higher level than DOGBERT)
57	(39)	BITSTRING	0	PBE2UPDT	"B'10000000" Data orig. update mode
57	(39)	BITSTRING	0	PBE2PSEU	"B'01000000" Pseudo-BERT (does not contain real BERT data)

\$PREBERT Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
57	(39)	BITSTRING	0	PBE2FREB	"B'00100000" BERT lock freed via (MANAGELOCK,RELEASE)
57	(39)	BITSTRING	0	PBE2LONG	"B'00010000" GETWORK area includes JQO
57	(39)	BITSTRING	0	PBE2EMPT	"B'00001000" Block following is empty
57	(39)	BITSTRING	0	PBE2FREE	"B'00000100" Memory for block freed
57	(39)	BITSTRING	0	PBE2DSTK	"B'00000001" When creating a stack element, turn on PBEU1PCE
58	(3A)	BITSTRING	1	PBEBTYPE	BERT type (same as BRTTYPE)
59	(3B)	BITSTRING	1	PBEFLAG3	Flags (managed by services at a higher level than DOGBERT)
59	(3B)	BITSTRING	0	PBE3QPSY	"B'10000000" Perform QPOST when JQA returned no matter what
59	(3B)	BITSTRING	0	PBE3#PSY	"B'01000000" Perform \$#POST when JQA returned no matter what
59	(3B)	X'3C	0	PBEDATA	*** Beginning of actual data
59	(3B)	X'3C	0	PBESIZE	**_PREBERT"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PBEUSER	, PREBERT user stack element
0	(0)	CHARACTER	4	PBEUID	Eye catcher
4	(4)	ADDRESS	4	PBEUPBEU	Address of prior user block
8	(8)	ADDRESS	4	PBEUPBE	Address of PREBERT
12	(C)	ADDRESS	4	PBEULINK	R14 value of \$DOGxxx caller
16	(10)	BITSTRING	1	PBEUFLG1	Flags
16	(10)	BITSTRING	0	PBEU1USE	"B'10000000" User block in use
16	(10)	BITSTRING	0	PBEU1PCE	"B'01000000" An existing PREBERT for this PCE was used
16	(10)	BITSTRING	0	PBEU1RD	"B'00100000" Caller wanted read mode
17	(11)	SIGNED	1	PBEUEXID	Exit ID in control when built (0 if IBM code)
18	(12)	BITSTRING	2		Reserved for future use
18	(12)	X'14	0	PBEUSIZE	**_PBEUSER" Size of User block

\$PREBERT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PBEBTYPE	3A		PBE1PAD	38	1
PBEDATA	3B	3C	PBE1PRE4	38	2
PBEFLAG1	38		PBE1READ	38	40
PBEFLAG2	39		PBE1SPEC	38	20
PBEFLAG3	3B		PBE1UPDT	38	80
PBEID	0		PBE2DSTK	39	1
PBEINDEX	30		PBE2EMPT	39	8
PBENEXT	20		PBE2FREB	39	20
PBEPCE	1C		PBE2FREE	39	4
PBEPREV	24		PBE2LONG	39	10
PBEPWAIT	28		PBE2PSEU	39	40
PBESIZE	3B	3C	PBE2UPDT	39	80
PBETOKEN	4		PBE3#PSY	3B	40
PBEUEXID	11		PBE3QPSY	3B	80
PBEUFLG1	10				
PBEUID	0	D7E4E2D9			
PBEULINK	C				
PBEUPBE	8				
PBEUPBEU	4				
PBEUSEQ	34				
PBEUSERS	8				
PBEUSIZE	12	14			
PBEU1PCE	10	40			
PBEU1RD	10	20			
PBEU1USE	10	80			
PBE1ABND	38	4			
PBE1DOGB	38	10			
PBE1NEWB	38	8			

\$PRGWORK Programming Interface information

Programming Interface information

\$PRGWORK

End of Programming Interface information

\$PRGWORK Heading Information

Common Name: JES2 Purge PCE Work Area
Macro ID: \$PRGWORK
DSECT Name: PCE (\$PRGWORK 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 PRGWLEN 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 \$PURGPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first Purge 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 Purge Processor and by its support routines and exits. \$PRGWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$PRGWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEPRGID in the second byte of field PCEID.

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

\$PRGWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
216	(D8)	ADDRESS	4	PRGWPRM	NODE TABLE ADDRESS
220	(DC)	ADDRESS	4		CONTROL BLOCK ADDRESS
224	(E0)	ADDRESS	4		CLASS LIST ADDRESS
228	(E4)	ADDRESS	4		ADDRESS OF JQE
232	(E8)	ADDRESS	1		CLASS LIST LENGTH
233	(E9)	ADDRESS	1		QUEUE TYPE SPECIFIED
234	(EA)	ADDRESS	1		WORK SELECTION TYPE FLAG
235	(EB)	ADDRESS	1		RESERVED FOR FUTURE USE
235	(EB)	X'D8 0001'	0	PRGWLST	"PRGWPRM,*-PRGWPRM" QGET PARAMETER LIST STORAGE
236	(EC)	SIGNED	4	PRGBLD (0)	Control block ID
240	(F0)	BITSTRING	4		Console ID
244	(F4)	ADDRESS	4		Address of the CART
248	(F8)	ADDRESS	4		Pointer for JOBID
252	(FC)	ADDRESS	4		Control block address
256	(100)	ADDRESS	4		Display routine address
260	(104)	ADDRESS	4	(6)	6 word work area
284	(11C)	BITSTRING	2		ROUT code for Message

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
286	(11E)	BITSTRING	2		Not used
288	(120)	CHARACTER	4		Message ID
292	(124)	CHARACTER	1		Separator character
293	(125)	ADDRESS	1		Flag byte 1
294	(126)	ADDRESS	1		'DISPER'
295	(127)	ADDRESS	1		Flag byte 2
296	(128)	BITSTRING	16		Not used
312	(138)	ADDRESS	4	(0)	Ensure multiple of 4
312	(138)	ADDRESS	2	(0)	
312	(138)	BITSTRING	1	PRGFLAG1	Flags
312	(138)	BITSTRING	0	PRG1DUPL	"B'10000000" Job held for duplicate jobname at least once
312	(138)	BITSTRING	0	PRG1JCTR	"B'01000000" The JCT for the currently purging job has been read
313	(139)	BITSTRING	1	PRGJQEF	JQEFLAG1 saved here
314	(13A)	BITSTRING	1	PRGJQEF5	JQEFLAG5 saved here
320	(140)	DBL WORD	8	(0)	Ensure double word length
320	(140)	X'68	0	PRGWLEN	**_PCEWORK" WORK AREA LENGTH

\$PRGWORK Cross Reference

Name	Hex Offset	Hex Value	
PRGBLD	EC	C2D3C440	
PRGFLAG1	138		
PRGJQEF	139		
PRGJQEF5	13A		
PRGWLEN	140	68	
PRGWLST	EB	D8	00014
PRGWPRM	D8		
PRG1DUPL	138	80	
PRG1JCTR	138	40	

\$PSO Heading Information

Common Name: HASP Process Sysout Work Area DSECT
Macro ID: \$PSO
DSECT Name: PSO
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: '\$PSO'
 Offset: PSOID-PSO
 Length: 4

Storage Attributes: Subpool: 231
 Key: 1
 Residency: Virtual and real storage are anywhere (above or below 16M) in common storage (CSA).

Size: See PSOLNGTH

Created by: Process Sysout Subsystem Interface code running in the requestor's address space.

Pointed to by: SJBPSOP field of the SJB data area

Serialization: There is only one PSO allowed per SJB. Normally there is only one SJB per address space. The queueing and manipulation of process sysout requests is normally handled by manipulation of SJBs, so serialization is via SJB locking

Function: The PSO contains an image of the IEFSSSO SSOB extension in order that data set selection for External Writers and the TSO OUTPUT command can be supported in the JES2 address space.

\$PSO Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PSO	PSO PARAMETER LIST DSECT
0	(0)	ADDRESS	4	PSOCCE	Address of CCE (This word must be first so that \$GETCEL can be used)
4	(4)	CHARACTER	4	PSOID	Eye catcher
8	(8)	ADDRESS	4	PSONEXT	Addr of next PSO on the PSO purge queue
12	(C)	SIGNED	4	PSOCRDT	ELLIGIBILITY CUT-OFF DATE
16	(10)	BITSTRING	1	PSOPFLAG	FLAG USED BY PSO PROCESSOR
16	(10)	BITSTRING	0	PSOPFSWT	"B'10000000" READ BOTH IOT CHAINS
16	(10)	BITSTRING	0	PSOPFREQ	"B'01000000" NEW SELECTION REQUIREMENTS
16	(10)	BITSTRING	0	PSOPFALL	"B'00100000" JOE HAS BEEN ALLOCATED
16	(10)	BITSTRING	0	PSOPFPUR	"B'00010000" PSO PURGED FLAG
16	(10)	BITSTRING	0	PSOPFHLD	"B'00001000" HOLD AT UNALLOC SPECIFIED
16	(10)	BITSTRING	0	PSOPFDAU	"B'00000100" PROCESSING A DAUGHTER CHAIN
16	(10)	BITSTRING	0	PSOPFACT	"B'00000010" Accounting cell addr valid
16	(10)	BITSTRING	0	PSOPFUSR	"B'00000001" Userid included in PSODEST
17	(11)	BITSTRING	1	PSOPFLG2	Flag used by PSO processor
17	(11)	BITSTRING	0	PSOP2E58	"B'10000000" ENF58 Select issued, ENF58 Deselect not yet issued
18	(12)	BITSTRING	18		Reserved for future use
36	(24)	SIGNED	4	PSORSVD2	RESERVED
40	(28)	CHARACTER	384	PSOPDDB	DATA SET Pddb
426	(1AA)	BITSTRING	1	PSOUFLG	GROUP REQUEST OPTIONS BYTE
427	(1AB)	CHARACTER	1		RESERVED
428	(1AC)	BITSTRING	1	PSOFLG1	DATA SET SELECTION CONTROL FLAGS
429	(1AD)	BITSTRING	1	PSOFLG2	DATA SET DISPOSITION AND CTL FLAGS
430	(1AE)	SIGNED	2	PSOCOPY	NUMBER OF DATA SET COPIES
432	(1B0)	CHARACTER	8	PSOJOB	JOB NAME

\$PSO Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
440	(1B8)	CHARACTER	8	PSOJOBI	HASP JOB ID (JOBNNNNN)
448	(1C0)	CHARACTER	1	PSOCLS	NEW SYSOUT CLASS (GROUP REQ ONLY)
449	(1C1)	SIGNED	2	PSOMLRL	Maximum Logical record length

Comment

Prior to OY64290, userid was not allowed to be included in destination (SSSODEST) on a Process SYSOUT request. Therefore, flag SSSOUSER was assumed to indicate a TSO RECEIVE request by HASPPSO processing.

With OY64290, userid is now allowed:

- If SSSOUSER is ON and PSOPFUSR is OFF, the userid in PSOPGMN is for a TSO RECEIVE call.
- If both PSOPFUSR and SSSOUSER are ON, then the userid in PSOPGMN is the userid included in the input destination SSSODEST/PSODEST.

End of Comment

451	(1C3)	BITSTRING	1	PSOFLGA	Flag byte
452	(1C4)	CHARACTER	8	PSODEST	REMOTE USER ID FOR SELECTION
460	(1CC)	CHARACTER	8	PSOPGMN	USER WRITER NAME
468	(1D4)	CHARACTER	8	PSORBA	RBA OF SYSOUT DATA SET
476	(1DC)	CHARACTER	44	PSODSN	SYSOUT DATA SET NAME
520	(208)	CHARACTER	4	PSOFORM	DATA SET FORM NAME (first 4 bytes if 8 byte form name)
524	(20C)	CHARACTER	8	PSOCLAS	CLASS(ES) TO BE PROCESSED
532	(214)	ADDRESS	4	PSOWTRC	ADDR OF XWTR PARAMETER LIST
536	(218)	CHARACTER	8	PSODSID	DATA SET IDENT CHAR STRING

Comment

PROCESS SYSOUT EXTENSION (This section is present if flag SSSOPSEE is on in byte PSOFLG2)

End of Comment

536	(218)	X'20	0	PSOPSE	*** PROCESS SYSOUT EXTENSION
544	(220)	BITSTRING	1	PSOFLG3	BDT CONTROL BYTE
545	(221)	BITSTRING	1	PSOFLG4	USER JOB OPTION FLAG

Comment

The first release of support for security tokens provided the field SSSOJECT as the address of the security token area which was to be provided by the caller. There was no requirement that the caller provide the length or version that was expected to be returned. It was assumed that the caller would provide an area large enough for the version one form of the SAF token. This new support will allow the caller to specify the length and version of the SAF token. The token will be transformed from the current version and length to the version and length requested by the caller via the TOKENMAP service of the SAF interface.

In order to allow migration of process sysout users, a two stage 'commit' is provided. The PSO user can ask that the length and version in the area pointed to by SSSOJECT be used for TOKENMAP by setting SSSOTKNR.

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
<p>If the JES servicing the request has had the other half of this update, it will return the data in the requested format and set SSSOTKNG that says it did so.</p> <p>If the process sysout user does not ask for this service, (by not setting SSSOTKNR), the JES will copy the token to the address specified in SSSOJECT assuming that the length of the area is the same as the SAF version one token length</p>					
End of Comment					
546	(222)	BITSTRING	1	PSOFLG5	Flags
547	(223)	CHARACTER	1	PSORSV6	RESERVED
548	(224)	CHARACTER	8		JES3 use only
556	(22C)	SIGNED	4	PSOLNCT	DATASET LINE COUNT
560	(230)	CHARACTER	8	PSOPRCD	DATASET PROC NAME
568	(238)	CHARACTER	8	PSOSTPD	DATASET STEP NAME
576	(240)	CHARACTER	8	PSODDND	DATASET DD NAME
584	(248)	ADDRESS	4	PSOJECT	Address of SAF token
588	(24C)	CHARACTER	8	PSOFORM8	Form number
596	(254)	ADDRESS	4	PSOACCT	Address of acctng string

Comment

The following field has the 26 character JES2 JOE name (Job Output Element name). The string can be used as given in JES2 commands which require OUTGRP= specifications. Flag SSSOJNVA (in SSSOFLG5) is set if the field is valid.

The data set returned with a given output group name will not necessarily continue to have the given output group name if this request (or a later request) asks for held data sets (SSSOUFLG on) and data set characteristics are changed (via a non-zero SSSOUFLG).

End of Comment

600	(258)	CHARACTER	26	PSOOGNM	JES2 output group name
626	(272)	CHARACTER	14		Reserved for future use
640	(280)	ADDRESS	4	PSOTCB	TCB ADDRESS OF LAST PSO USER
644	(284)	BITSTRING	4	PSORETN	SUB-SYSTEM RETURN CODE
648	(288)	BITSTRING	4	PSOIOT	TRACK (OR STORAGE) ADDRESS OF IOT
652	(28C)	BITSTRING	4	PSOANCHR	MTRR FOR IOT CHAIN
656	(290)	ADDRESS	4	PSOSJB	ADDRESS OF SJB
660	(294)	BITSTRING	12	PSOXMPL (0)	\$XMPOST parameter list
660	(294)	ADDRESS	4	PSOERRET	Address of error routine
664	(298)	ADDRESS	4	PSOECBP	Address of ECB for JOT WAIT
668	(29C)	ADDRESS	4	PSOASCBP	Address of target ASCB
672	(2A0)	BITSTRING	4	PSORDRON	TIME ON INPUT PROCESSOR
676	(2A4)	BITSTRING	4	PSORDTON	DATE ON INPUT PROCESSOR
680	(2A8)	CHARACTER	8	PSOUSEID	JMR installation data field
688	(2B0)	ADDRESS	4	PSOWKOFF	OFFSET OF WORK JOE
692	(2B4)	ADDRESS	4	PSOCHOFF	OFFSET OF CHAR JOE
696	(2B8)	BITSTRING	1	PSOJOFEL	COPY OF JOEFLAG1
697	(2B9)	BITSTRING	1	PSOFLGR	DATA SET SECURITY ATTR FLGS
697	(2B9)	BITSTRING	0	PSORSEL	"B'10000000" SELECT REQUEST (NON-DISP)
697	(2B9)	BITSTRING	0	PSOREOM	"B'01000000" BYPASS SECURITY CALL (EOM)
698	(2BA)	CHARACTER	1	PSOMCLAS	MESSAGE CLASS FOR JOB
699	(2BB)	BITSTRING	1		RESERVED FOR FUTURE USE
700	(2BC)	BITSTRING	4	PSOJBKEY	JOB IDENTIFIER KEY
704	(2C0)	ADDRESS	4	PSOJQEP	HASP JQE OFFSET
708	(2C4)	SIGNED	4	PSOJBNUM	HASP job number (binary)
712	(2C8)	SIGNED	4	PSOROUTE	SELECTION ROUTE CODE (BINARY)
716	(2CC)	SIGNED	2	PSOHDOFF	IOT offset of selected held PDDB and held support indicator

\$PSO Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
718	(2CE)	SIGNED	2	PSOXDOFF	IOT offset of selected non-held PDDDB
720	(2D0)	CHARACTER	80	PSOTOKEN	PSO SECURITY TOKEN FOR REQUESTOR
800	(320)	CHARACTER	80	PSODSTOK	DATA SET TOKEN
880	(370)	BITSTRING	148	PSOACCT2	Accounting string
1028	(404)	ADDRESS	4	PSOACTGC	Address of accounting cell
1032	(408)	BITSTRING	2		Reserved for future use
1040	(410)	DBL WORD	8	(0)	
1040	(410)	X'10	0	PSOLNGTH	**-PSO" LENGTH OF PSO DSECT

\$PSO Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PSOACCT	254		PSOPFSWT	10	80
PSOACCT2	370		PSOPFUSR	10	1
PSOACTGC	404		PSOPGMN	1CC	
PSOANCHR	28C		PSOPRCD	230	
PSOASCBP	29C		PSOPSE	218	20
PSOCCE	0		PSOP2E58	11	80
PSOCHOFF	2B4		PSORBA	1D4	
PSOCLAS	20C		PSORDRON	2A0	
PSOCLS	1C0		PSORDTON	2A4	
PSOCOPY	1AE		PSOREOM	2B9	40
PSOCRDT	C		PSORETN	284	
PSODDND	240		PSOROUTE	2C8	
PSODEST	1C4		PSORSEL	2B9	80
PSODSID	218	C3C3C3C3	PSORSVD2	24	
PSODSN	1DC		PSORSV6	223	
PSODSTOK	320		PSOSECT	248	
PSOECBP	298		PSOSJB	290	
PSOERRET	294		PSOSTPD	238	
PSOFLGA	1C3		PSOTCB	280	
PSOFLGR	2B9		PSOTOKEN	2D0	
PSOFLG1	1AC		PSOUFLG	1AA	
PSOFLG2	1AD		PSOUSEID	2A8	
PSOFLG3	220		PSOWKOFF	2B0	
PSOFLG4	221		PSOWTRC	214	
PSOFLG5	222		PSOXDOFF	2CE	
PSOFORM	208		PSOXMPL	294	
PSOFOR8	24C				
PSOHDOFF	2CC				
PSOID	4	5BD7E2D6			
PSOIOT	288				
PSOJBKEY	2BC				
PSOJBNUM	2C4				
PSOJOB1	1B8				
PSOJOBN	1B0				
PSOJOEFL	2B8				
PSOJQEP	2C0				
PSOLNCT	22C				
PSOLNGTH	410	10			
PSOMCLAS	2BA				
PSOMLRL	1C1				
PSONEXT	8				
PSOOGNM	258				
PSOPDDB	28				
PSOPFACT	10	2			
PSOPFALL	10	20			
PSOPFDAU	10	4			
PSOPFHLD	10	8			
PSOPFLAG	10				
PSOPFLG2	11				
PSOPFPUR	10	10			
PSOPFREQ	10	40			

\$PSOWORK Heading Information

Common Name: JES2 Process SYSOUT Work Area
Macro ID: \$PSOWORK
DSECT Name: PCE (\$PSOWORK 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 PSPWKSIZ 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 \$PSOPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first Process SYSOUT 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 Process SYSOUT Processor and by its support routines and exits. \$PSOWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$PSOWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEPSOID in the second byte of field PCEID.

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

\$PSOWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
216	(D8)	BITSTRING	636		\$RDRWORK LEN (FOR HASPRJCS)
852	(354)	ADDRESS	4	PSPSCRCH	Scratch area
856	(358)	ADDRESS	4	PSPCKPTB	OUTPUT CKPT I/O BUFFER ADDRESS
860	(35C)	ADDRESS	4	PSPCHARJ	Addr of current Char JOE (only valid if SSSOSPGM is on and SSSOSCLS off in PSOFLG1)
864	(360)	BITSTRING	1	PSPMCLAS	SYSOUT MESSAGE CLASS (FROM JCT)
865	(361)	BITSTRING	1		Reserved for future use
866	(362)	SIGNED	2	PSPWORKA	PSO PROCESSING WORK AREA
868	(364)	SIGNED	4	PSPRSVD2	RESERVED
872	(368)	BITSTRING	3	PSPHDSCT	HELD DATA SET COUNT
875	(36B)	BITSTRING	1		RESERVED
876	(36C)	CHARACTER	18	PSPDEST	PSO DESTINATION WORK AREA
894	(37E)	BITSTRING	12	PSPXWTRE	SAVE XWTR ECB
906	(38A)	BITSTRING	1	PSPFLAG1	FLAGS
906	(38A)	BITSTRING	0	PSP1RLSE	"B'10000000" BUFFER WAS PAGE RELEASED, HENCE NEEDS IOB BUILD
906	(38A)	BITSTRING	0	PSP1RACR	"B'01000000" RACROUTE HAS BEEN DONE

\$PSOWORK Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
906	(38A)	BITSTRING	0	PSP1JRUL	"B'00010000" SET OFF USE JOE BUILD RULE 1 SET ON USE JOE BUILD RULE 2
906	(38A)	BITSTRING	0	PSP1IOTR	"B'00001000" IOT is in memory (flag bit is only valid for xwtr)
907	(38B)	BITSTRING	1	PSPFLAG2	FLAGS FOR PSO QUEUE PROC
907	(38B)	BITSTRING	0	PSP2LQUE	"B'10000000" PROCESS LOCAL QUEUE
907	(38B)	BITSTRING	0	PSP2UQUE	"B'01000000" PROCESS USERID QUEUE
907	(38B)	BITSTRING	0	PSP2RQUE	"B'00100000" PROCESS REMOTE QUEUE
907	(38B)	BITSTRING	0	PSP2UQP	"B'00010000" USERID Q HAS BEEN PROCESSED
907	(38B)	BITSTRING	0	PSP2RQP	"B'00001000" REMOTE Q HAS BEEN PROCESSED
907	(38B)	BITSTRING	0	PSP2CQP	"B'00000100" CHAR Q IS BEING PROCESSED
908	(38C)	ADDRESS	4	PSPBUFAD	Buffer address \$EXCP
912	(390)	BITSTRING	268	PSPRGRPM	TREGROUP Parm list
1180	(49C)	ADDRESS	4	PSPCLASS	Current class list address
1184	(4A0)	CHARACTER	18	PSPRTXT	Reason text area for ENF58

Comment

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

End of Comment

1204	(4B4)	SIGNED	4	PSPBLDM (0)	Control block ID
1208	(4B8)	BITSTRING	4		Console ID
1212	(4BC)	ADDRESS	4		Address of the CART
1216	(4C0)	ADDRESS	4		Pointer for JOBID
1220	(4C4)	ADDRESS	4		Control block address
1224	(4C8)	ADDRESS	4		Display routine address
1228	(4CC)	ADDRESS	4	(6)	6 word work area
1252	(4E4)	BITSTRING	2		ROUT code for Message
1254	(4E6)	BITSTRING	2		Not used
1256	(4E8)	CHARACTER	4		Message ID
1260	(4EC)	CHARACTER	1		Separator character
1261	(4ED)	ADDRESS	1		Flag byte 1
1262	(4EE)	ADDRESS	1		'DISPER'
1263	(4EF)	ADDRESS	1		Flag byte 2
1264	(4F0)	BITSTRING	16		Not used
1280	(500)	ADDRESS	4	(0)	Ensure multiple of 4
1280	(500)	ADDRESS	2	(0)	
0	(0)	X'28	0	PSPWKSIZ	**-PCEWORK" LENGTH OF PSO PCE WORK AREA

\$PSOWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PSPBLDM	4B4	C2D3C440	PSP2CQP	38B	4
PSPBUFAD	38C		PSP2LQUE	38B	80
PSPCHARJ	35C		PSP2RQP	38B	8
PSPCKPTB	358		PSP2RQUE	38B	20
PSPCLASS	49C		PSP2UQP	38B	10
PSPDEST	36C		PSP2UQUE	38B	40
PSPFLAG1	38A				
PSPFLAG2	38B				
PSPHDSCT	368				
PSPMCLAS	360				
PSPRGRPM	390				
PSPRSVD2	364				
PSPRTXT	4A0				
PSPSCRCH	354				
PSPWKSIZ	0	28			
PSPWORKA	362				
PSPXWTRE	37E				
PSP1IOTR	38A	8			
PSP1JRUL	38A	10			
PSP1RACR	38A	40			
PSP1RLSE	38A	80			

\$PSV Programming Interface information

Programming Interface information

\$PSV

End of Programming Interface information

\$PSV Heading Information

Common Name: JES2 save area DSECT
Macro ID: \$PSV
DSECT Name: PSV and PSVAREGS
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: SAVE, CSAV, and ARSA
 Offset: PSVID-PSV and PSVARID-PSVAREGS
 Length: L'PSVID and L'PSVARID

Storage Attributes: Subpool: 0 or 230
 Key: 1
 Residency: Virtual and real storage are anywhere (above or below 16M), in the private storage of the JES2 or user address space.

Size: See PSVLENG and PSVARLEN
Created by: \$SAVE service
Pointed to by: \$SAVAREA field of the \$HCT data area
 \$SAVEARS field of the \$HCT data area
 PCELPSV field of the \$PCE data area
 PREPSVAD field of the \$PRE data area
 PSVNEXT field of the \$PSV data area
 PSVPREV field of the \$PSV data area
 PSVARPTR field of the \$PSV data area
 PSVARCHN field of the \$PSV data area
 TRERSAVE field of the \$TRE data area

Serialization: None required
Function: This macro generates an MVS style save area DSECT mapping with JES2 extensions added on the end. The DSECT generated is dependent on the caller's environment.

\$PSV Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PSV	
0	(0)	CHARACTER	4	PSVID	SAVE AREA IDENTIFIER
4	(4)	ADDRESS	4	PSVPREV	PREVIOUS SAVE AREA ADDRESS
8	(8)	ADDRESS	4	PSVNEXT	NEXT SAVE AREA ADDRESS
12	(C)	SIGNED	4	PSVR14	REGISTER 14 STORAGE
16	(10)	SIGNED	4	PSVR15	REGISTER 15 STORAGE
20	(14)	SIGNED	4	PSVR0	REGISTER 0 STORAGE
24	(18)	SIGNED	4	PSVR1	REGISTER 1 STORAGE
28	(1C)	SIGNED	4	PSVR2	REGISTER 2 STORAGE
32	(20)	SIGNED	4	PSVR3	REGISTER 3 STORAGE
36	(24)	SIGNED	4	PSVR4	REGISTER 4 STORAGE
40	(28)	SIGNED	4	PSVR5	REGISTER 5 STORAGE
44	(2C)	SIGNED	4	PSVR6	REGISTER 6 STORAGE
48	(30)	SIGNED	4	PSVR7	REGISTER 7 STORAGE
52	(34)	SIGNED	4	PSVR8	REGISTER 8 STORAGE
56	(38)	SIGNED	4	PSVR9	REGISTER 9 STORAGE
60	(3C)	SIGNED	4	PSVR10	REGISTER 10 STORAGE
64	(40)	SIGNED	4	PSVR11	REGISTER 11 STORAGE
68	(44)	SIGNED	4	PSVR12	REGISTER 12 STORAGE
72	(48)	ADDRESS	4	PSVADDR	ENVIRONMENT DEPENDENT ADDR
76	(4C)	ADDRESS	4	PSVLABAD	ADDRESS OF \$SAVE IDENTIFIER
80	(50)	ADDRESS	4	PSVLSPTR	LINKAGE STACK POINTER (AT TIME OF \$SAVE)
84	(54)	ADDRESS	4	PSVARPTR	Pointer to AR save area (or zero if none)
88	(58)	BITSTRING	1	PSVMODE	AR mode and key of caller Bits 0-3 - ASC mode 4-7 - PSW key

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
89	(59)	SIGNED	1	PSVEXID	Exit number when \$SAVE done
90	(5A)	BITSTRING	2		Reserved
90	(5A)	X'5C	0	PSVLENG	**-PSV" LENGTH OF SAVE AREA

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PSVAREGS	, Start of access registers
0	(0)	CHARACTER	4	PSVARID	Eyecatcher
4	(4)	ADDRESS	4	PSVARCHN	Free chain pointer or ptr to real save area
8	(8)	SIGNED	4	PSVAR0	Access register 0 storage
12	(C)	SIGNED	4	PSVAR1	Access register 1 storage
16	(10)	SIGNED	4	PSVAR2	Access register 2 storage
20	(14)	SIGNED	4	PSVAR3	Access register 3 storage
24	(18)	SIGNED	4	PSVAR4	Access register 4 storage
28	(1C)	SIGNED	4	PSVAR5	Access register 5 storage
32	(20)	SIGNED	4	PSVAR6	Access register 6 storage
36	(24)	SIGNED	4	PSVAR7	Access register 7 storage
40	(28)	SIGNED	4	PSVAR8	Access register 8 storage
44	(2C)	SIGNED	4	PSVAR9	Access register 9 storage
48	(30)	SIGNED	4	PSVAR10	Access register 10 storage
52	(34)	SIGNED	4	PSVAR11	Access register 11 storage
56	(38)	SIGNED	4	PSVAR12	Access register 12 storage
60	(3C)	SIGNED	4	PSVAR13	Access register 13 storage
64	(40)	SIGNED	4	PSVAR14	Access register 14 storage
68	(44)	SIGNED	4	PSVAR15	Access register 15 storage
68	(44)	X'48	0	PSVARLEN	**-PSVAREGS" Length of access registers

\$PSV Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PSVADDR	48		PSVR10	3C	
PSVARCHN	4		PSVR11	40	
PSVARID	0		PSVR12	44	
PSVARLEN	44	48	PSVR14	C	
PSVARPTR	54		PSVR15	10	
PSVAR0	8		PSVR2	1C	
PSVAR1	C		PSVR3	20	
PSVAR10	30		PSVR4	24	
PSVAR11	34		PSVR5	28	
PSVAR12	38		PSVR6	2C	
PSVAR13	3C		PSVR7	30	
PSVAR14	40		PSVR8	34	
PSVAR15	44		PSVR9	38	
PSVAR2	10				
PSVAR3	14				
PSVAR4	18				
PSVAR5	1C				
PSVAR6	20				
PSVAR7	24				
PSVAR8	28				
PSVAR9	2C				
PSVEXID	59				
PSVID	0	C3E2C1E5			
PSVLABAD	4C				
PSVLENG	5A	5C			
PSVLPTR	50				
PSVMODE	58				
PSVNEXT	8				
PSVPREV	4				
PSVR0	14				
PSVR1	18				

\$QSE Programming Interface information

Programming Interface information

\$QSE

End of Programming Interface information

\$QSE Heading Information

Common Name: Multi-access SPOOL shared communications queue control element
Macro ID: \$QSE
DSECT Name: QSE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: 0 or 231
 Key: 1
 Residency: Virtual and Real storage are anywhere
Size: See QSELEN
Created by: HASPIRDA
Pointed to by: \$QSE1 field of the \$HCT data area
 \$AQSE field of the \$HCT data area
Serialization: Fields are updated only when the JES2 checkpoint is owned by the member updating.
Function: One QSE exists for each member of a multi-access spool. The QSE describes this potential member of the complex.
 The QSEs are checkpointed control blocks. This means there are two or more copies of each QSE in storage at any one time. The actual and I/O copies are always there and reside in subpool 0. If the system is running with an application copy of the checkpoint a third copy will be in subpool 0 if the application copy is in private, and in subpool 231 if the application copy is in common. If the system is running with checkpoint versioning, then zero or more copies will be in a data space.
 Note: the QSEs are contiguous in storage and must stay that way since the way to get to the QSE for a system is to use the system busy byte to index into the QSE table which begins at the address held in \$QSE1.

\$QSE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	QSE	
0	(0)	DBL WORD	8	QSESITIM	TOD of last CKPT access for this member
8	(8)	CHARACTER	4	QSESID	SYS ID (SMF) of this member
12	(C)	BITSTRING	1	QSERSTID	Id of member doing \$ESYS
13	(D)	BITSTRING	1		Reserved for future IBM use
14	(E)	BITSTRING	1	QSESIBSY	Member id for busy indicators and equal to the member number
15	(F)	BITSTRING	3	QSEAFFIN	This members affinity token
18	(12)	BITSTRING	6		Reserved for future use
Comment					
Beginning of fields zeroed at all member warm start					
End of Comment					
24	(18)	BITSTRING	8	QSEPLXID	Sysplex id
32	(20)	BITSTRING	8	QSEMEMTK	XCF member token
40	(28)	DBL WORD	8	QSEECF (0)	CROSS-SYSTEM RESOURCE \$POST ECF

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
48	(30)	CHARACTER	8	QSEPLXNM	MVS sysplex name
56	(38)	CHARACTER	8	QSEMVSNM	MVS system name
64	(40)	CHARACTER	8	QSEJ2VRN	The JES2 version that last warmstarted this member
72	(48)	BITSTRING	4	QSESYTOK	System token of the MVS system
76	(4C)	BITSTRING	1	QSEPOSTS	CROSS-SYSTEM \$POST FLAG BYTES
77	(4D)	BITSTRING	1	QSEJCMD	JCMD processor post
77	(4D)	BITSTRING	0	QSEJWRK	"B'10000000" Batch work for JCMD

Comment

End of fields zeroed at all member warm start

End of Comment

77	(4D)	X'18 00036'	0	QSEWARM1	"QSEPLXID,*-QSEPLXID" Zeroed at all-mbr wrmstart
78	(4E)	BITSTRING	1	QSESTAT	SYSTEM STATUS BYTE
79	(4F)	BITSTRING	1	QSESTAT2	ADDITIONAL SYSTEM STATUS BYTE

Comment

Beginning of fields zeroed at all member warm start

End of Comment

80	(50)	BITSTRING	4	QSEMAXMS	Members that ceased sending msgs because of \$MAXMSGQ
84	(54)	BITSTRING	1	QSESCMSK	SHRD COMM QUE SPLS USED MSK

Comment

The following fields are used by SDSF on their MEMBER display. QSEHOLD, QSEMIND, and QSEMAXD are in hundredths of a second. QSESYNC is in seconds. QSEAHOLD and QSEADORM are bits 16-47 of a STCK value. Bit 47 of a STCK is incremented every 0.000016 seconds.

End of Comment

116	(74)	SIGNED	4	QSEHOLD	MASDEF HOLD=
120	(78)	SIGNED	4	QSEMIND	MASDEF DORMANCY=(xxxx)
124	(7C)	SIGNED	4	QSEMAXD	MASDEF DORMANCY=(,xxxx)
128	(80)	SIGNED	4	QSESYNC	MASDEF SYNCTOL=
132	(84)	SIGNED	4	QSEAHOLD	Actual HOLD value
136	(88)	SIGNED	4	QSEADORM	Actual dormancy value

Comment

End of section for SDSF MEMBER display

End of Comment

140	(8C)	CHARACTER	1	QSECCHAR	CONDEF CONCHAR=
141	(8D)	BITSTRING	1	QSESTYPE	Last start type - see flag definitions in \$WARMTYP
142	(8E)	SIGNED	2		Possible number of lost TGs (not used in SP 5.2)
144	(90)	SIGNED	4	QSESTIME	STCK time of last start
148	(94)	BITSTRING	3	QSESNIFF	MTT being sniffed this mbr
151	(97)	SIGNED	1	QSEJ2VR2	JES2 version last active on this member
152	(98)	SIGNED	1	QSEHIVER	Highest compatible JES2 version
153	(99)	BITSTRING	3	QSEFEAT	Reserved for future use as feature flags
153	(99)	BITSTRING	0	QSEFXMT	"B'10000000" OW12987 is applied
153	(99)	BITSTRING	0	QSEFLVLS	"B'01000000" Service level fields set (QSEJ2PLV/QSEJ2SLV)

\$QSE Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
COMPATIBILITY CODE					
This field and its maintenance can be removed when there is no possibility of running in a MAS with a member older than OS/390 R10.					
End of Comment					
156	(9C)	SIGNED	4	QSEVRTIM	Time that version fields were set - must match first 4 bytes of QSESITIM
160	(A0)	SIGNED	1	QSEJ2PLV	Product level of JES2 last active on this member (&J2PLVL)
161	(A1)	SIGNED	1	QSEJ2SLV	Service level of JES2 last active on this member (&J2SLVL)
162	(A2)	SIGNED	2		Reserved for future use
164	(A4)	CHARACTER	4	QSESSNAM	Subsys name (JES2/JESA...)
168	(A8)	SIGNED	4	QSECKPLV	Last CKPT level number
Comment					

COMPATIBILITY

QSEGMTOF is used to determine whether the time stamps in CKBWRTIM (checkpoint write time) can be compared to each other. In Z2 mode, CKBWRTIM is stored in GMT rather than local time. In that case, time stamps may be compared regardless of GMT offset because GMT must be consistent on all systems in the sysplex, so QSEGMTOF is not used. When all members of the MAS must be in Z2 mode, (and therefore store CKBWRTIM in GMT), QSEGMTOF can be deleted.

End of Comment					
172	(AC)	SIGNED	4	QSEGMTOF	GMT offset of this member
176	(B0)	SIGNED	4	(3)	Reserved for future use
Comment					

End of fields zeroed at all member warm start

End of Comment					
176	(B0)	X'50 0006C'	0	QSEWARM2	"QSEMAXMS,*-QSEMAXMS" Zeroed at all-mbr warmstart
188	(BC)	SIGNED	4	(3)	Reserved (as of HJE7705)
188	(BC)	X'C8	0	QSELEN	**"QSE" LENGTH OF QSE
200	(C8)	ADDRESS	4	QSEEND (0)	End of QSE
Comment					

QSEPOSTS

End of Comment					
200	(C8)	BITSTRING	0	QSEPXEQ	"B'10000000" CROSS-SYSTEM \$POST EXECUTION
200	(C8)	BITSTRING	0	QSEPJOT	"B'01000000" Cross-member \$POST for JOE/JQE
200	(C8)	BITSTRING	0	QSEPSOST	"B'00100000" Cross-member \$POST for SPOOL offload SYSOUT transmitters

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
QSESTAT					
Valid states for QSEQUICK and QSE\$EMEM:					
QSEQUICK QSE\$EMEM Explanation					
off off no \$EMEMBER nor AMWS ever done					
This is normal state for a					
running member or a crashed					
member for which no warmstart					
has been attempted.					
off on \$EMEMBER or AMWS has completed,					
but at least one JQE was not					
processed because of inability					
to get BERT lock. The ALICE					
PCE will set QSEQUICK on when					
all JQEs have been processed.					
This setting can also occur if					
SMWS is done after an AMWS by					
a member with OW35410 installed.					
on off An AMWS or \$EMEMBER has been					
done before OW35410 was					
installed. This will disappear					
after the first ALICE processor					
successfully scans the jobqueue					
and should never appear in the					
MAS again unless an AMWS or					
\$EMEMBER is performed by a					
member without OW35410					
installed.					
on on Member has been successfully					
warmstarted by an AMWS or via					
\$EMEMBER with no BERT problems.					
Note: AMWS = All Member Warm Start					
SMWS = Single Member Warm Start					

End of Comment

200	(C8)	BITSTRING	0	QSEACTIV	"B'10000000" Member is active
200	(C8)	BITSTRING	0	QSEQUICK	"B'01000000" Member is warm started
200	(C8)	BITSTRING	0	QSELAST	"B'00100000" LAST QSE
200	(C8)	BITSTRING	0	QSE\$PCMD	"B'00010000" \$P command in effect
200	(C8)	BITSTRING	0	QSE\$PXEQ	"B'00001000" \$P XEQ command in effect
200	(C8)	BITSTRING	0	QSEBOSS	"B'00000100" This member is boss
200	(C8)	BITSTRING	0	QSE\$EMEM	"B'00000010" \$E MEMBER finished
200	(C8)	BITSTRING	0	QSECKPT2	"B'00000001" QSECPKLV is for CKPT2

Comment

QSESTAT2

End of Comment

200	(C8)	BITSTRING	0	QSE2EDEL	"B'10000000" Member deleted, ESYS'D required
200	(C8)	BITSTRING	0	QSE2\$IND	"B'01000000" Member in independent mode
200	(C8)	BITSTRING	0	QSE2SIOT	"B'00100000" SPIN IOT BEING PURGED
200	(C8)	BITSTRING	0	QSE2NMAL	"B'00010000" This member has two ckpt datasets allocated
200	(C8)	BITSTRING	0	QSE2EGON	"B'00001000" XCF system gone, ESYS,SID required
200	(C8)	BITSTRING	0	QSE2NPST	"B'00000100" APAR OW03267 applied

\$QSE Cross Reference

\$QSE Cross Reference

Name	Hex Offset	Hex Value	
QSE\$EMEM	C8	2	
QSE\$PCMD	C8	10	
QSE\$PXEQ	C8	8	
QSEACTIV	C8	80	
QSEADORM	88		
QSEAFFIN	F		
QSEAHOLD	84		
QSEBOSS	C8	4	
QSECCHAR	8C		
QSECKPLV	A8		
QSECKPT2	C8	1	
QSEECF	28		
QSEEND	C8		
QSEFEAT	99		
QSEFLVLS	99	40	
QSEFXMT	99	80	
QSEGMTOF	AC		
QSEHIVER	98		
QSEHOLD	74		
QSEJCMD	4D		
QSEJWRK	4D	80	
QSEJ2PLV	A0		
QSEJ2SLV	A1		
QSEJ2VRN	40		
QSEJ2VR2	97		
QSELAST	C8	20	
QSELEN	BC	C8	
QSEMAXD	7C		
QSEMAXMS	50		
QSEMEMTK	20		
QSEMIND	78		
QSEMVSNM	38		
QSEPJOT	C8	40	
QSEPLXID	18		
QSEPLXNM	30		
QSEPOSTS	4C		
QSEPSOST	C8	20	
QSEPXEQ	C8	80	
QSEQUICK	C8	40	
QSERSTID	C		
QSESCMSK	54		
QSESIBSY	E		
QSESID	8		
QSESITIM	0		
QSESNIFF	94		
QSESSNAM	A4		
QSESTAT	4E		
QSESTAT2	4F		
QSESTIME	90		
QSESTYPE	8D		
QSESYNC	80		
QSESYTOK	48		
QSEVRTIM	9C		
QSEWARM1	4D	18	00036
QSEWARM2	B0	50	0006C
QSE2\$IND	C8	40	
QSE2EDEL	C8	80	
QSE2EGON	C8	8	
QSE2NMAL	C8	10	
QSE2NPST	C8	4	
QSE2SIOT	C8	20	

\$RAT Programming Interface information

Programming Interface information

\$RAT

End of Programming Interface information

\$RAT Heading Information

Common Name: Remote Attribute Table

Macro ID: \$RAT

DSECT Name: RAT

Owning Component: JES2 (SC1BH)

Eye-Catcher ID: The permanent RATs are in contiguous storage with an eyecatcher 'RAT ' and storage length before the RAT table.
Offset: -8 from value of \$RATABLE
Length: 4

Storage Attributes: Subpool: 23 (temporary RAT during initialization), 0 (permanent RAT after initialization)
Key: 1
Residency: Virtual and real storage are anywhere in the private storage of the JES2 address space.

Size: RATTLE * \$MAXRJE (temporary RAT during initialization)
RATTLE * \$RMTNUM (permanent RAT after initialization)

Created by: HASPIRMA (temporary RAT during initialization)
HASPIRRE (permanent RAT after initialization)

Pointed to by: \$RATABLE field of the \$HCT data area
MDCTRAT field of the \$DCT data area

Serialization: Logon of a remote is not permitted on an MAS member if the remote is logged on another member (which is indicated in the \$RMTSON vector).

Function: The RAT describes the attributes of a JES2 remote. Remotes are devices (remote workstations) or pseudo devices (e.g. programs emulating RJE protocols connected to JES2 via an SNA line). The protocol defines a single transmission mechanism (the line), with single transmitter/receivers at either end (e.g. the JES2 Line Manager PCE, and an RJE workstation CPU or RJE emulation program). Multiple streams of data records can be interleaved in the traffic to/from the MLLM and the workstation, which are broken out at each end as data to/for workstation peripherals (PRTs, RDRs, PUNs, CON) and the matching JES2 logical processors.

The RAT is a set of contiguous entries, one for each remote (the first is for remote 1, not 0). The size of each entry is RATTLE, and you can index into the RAT to find the desired entry using a remote number. The number of entries is \$RMTNUM, which is the largest allowed remote number (may be different on each MAS member). This is the RAT definition after initialization - during parmlib processing there is a temporary RAT with \$MAXRJE entries.

\$RAT Map

Offsets		Type/Value	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	0	RAT	REMOTE ATTRIBUTE TABLE DSECT

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	CHARACTER	8	RATNAME	REMOTE NAME
8	(8)	ADDRESS	4	RATRDCT	ADDRESS OF FIRST REMOTE DCT
12	(C)	ADDRESS	4	RATLDCT	ADDRESS OF LINE DCT
16	(10)	ADDRESS	4	RATTOKA	Address of SAF token
20	(14)	SIGNED	4	RATROUTE (0)	REMOTES ROUTE CODE
20	(14)	SIGNED	2	RATNODE	NODE NUMBER
22	(16)	SIGNED	2	RATRTE	REMOTE ROUTE
24	(18)	BITSTRING	1	RATTYPE	TERMINAL TYPE (SEE MDCTTYPE)
25	(19)	BITSTRING	1	RATFMT	TERMINAL DATA FORMAT
26	(1A)	BITSTRING	1	RATFEAT	TERMINAL FEATURES
27	(1B)	ADDRESS	1	RATNUMRD	NUMBER OF READERS
28	(1C)	ADDRESS	1	RATNUMPR	NUMBER OF PRINTERS
29	(1D)	ADDRESS	1	RATNUMPU	NUMBER OF PUNCHES
30	(1E)	BITSTRING	1	RATCONF	REMOTE CONSOLE FLAGS
31	(1F)	BITSTRING	1		RESERVED FOR FUTURE USE
32	(20)	SIGNED	4	RATCONRT	REMOTE CONSOLE ROUTE CODE
36	(24)	SIGNED	2	RATBUFSZ	TERMINAL BUFFER SIZE
38	(26)	SIGNED	2	RATWTIME	TERMINAL WAIT TIME
40	(28)	BITSTRING	1	RATFLAGS	REMOTE FLAGS
41	(29)	BITSTRING	1	RATFLAG2	REMOTE FLAGS
42	(2A)	SIGNED	2	RATDINTV	REMOTE DISCONNECT INTERVAL
44	(2C)	SIGNED	4	RATIMER	REMOTE CLOCK VALUE
48	(30)	CHARACTER	8	RATSYMB	REMOTES PRIMARY LUNAME
56	(38)	CHARACTER	8	RATPSWD	REMOTE PASSWORD
64	(40)	ADDRESS	4	RATRMJQE	RMT MSG DS JQE OFFSET - IF NON- ZERO, MSGS EXIST FOR PRT
68	(44)	SIGNED	2	RATLOGN	LOGON DCT NUMBER TO USE
72	(48)	SIGNED	4	RATEND (0)	END OF RAT DSECT
72	(48)	X'48	0	RATTLE	**-'RAT' LENGTH OF RAT

Comment

RATCONF

End of Comment

72	(48)	BITSTRING	0	RATCONFT	"B'10000000" DISPLAY TIME STAMP, JOB ID, TEXT
72	(48)	BITSTRING	0	RATCONFJ	"B'01000000" DISPLAY JOB ID, TEXT
72	(48)	BITSTRING	0	RATCONF C	"B'00100000" REMOTE HAS A CONSOLE

Comment

ATCONFO EQU B'00010000' REMOTE CONSOLE OPERATIONAL

End of Comment

72	(48)	BITSTRING	0	RATCONFI	"B'00001000" ISSUE SETUP MSGS AS 'INFO'
72	(48)	BITSTRING	0	RATCONFD	"B'00000100" ISSUE HASP150 ON-DEVICE MSG TO RMT CONSOLE AS WELL AS OPERATOR, INEFFECTIVE IF CONFC IS OFF
72	(48)	BITSTRING	0	RATCONFS	"B'00000010" SUPPRESS RMT MSG PRINTING (MSGPRT=NO ON RMTNN STMT)

Comment

RATFLAGS

End of Comment

72	(48)	BITSTRING	0	RATALM	"B'10000000" REMOTE IS IN AUTOLOGON MODE
72	(48)	BITSTRING	0	RATSRMT	"B'01000000" REMOTE SHOULD BE STARTED
72	(48)	BITSTRING	0	RATTINT	"B'00100000" TEMP DISC INTERVAL IN EFFECT
72	(48)	BITSTRING	0	RATPILUN	"B'00010000" RATSYMB PERMANENTLY INITIALIZED

\$RAT Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
EQU B'00001000' Reserved for future use					
EQU B'00000100' Reserved for future use					
End of Comment					
72	(48)	BITSTRING	0	RATVALID	"B'00000010" RAT ENTRY IS VALID, IF FLAG IS OFF NO RDR/PRT/PUN DCTS ARE ALLOCATED, SIGNON IS NOT BE PERMITTED
72	(48)	BITSTRING	0	RATOUTPT	"B'00000001" OUTPUT EXISTS FOR THIS RMT
Comment					
RATFLAG2					

RAT2NSHR and RAT2SHRE are mutually exclusive flags, and are meaningless if RATLDCT contains zero or if remote is signed on to an unleased line.					

End of Comment					
72	(48)	BITSTRING	0	RAT2QSCN	"B'10000000" AUTOLG FULL Q SCAN REQUIRED
72	(48)	BITSTRING	0	RAT2NSHR	"B'01000000" RATLDCT holds nonshared line
72	(48)	BITSTRING	0	RAT2SHRE	"B'00100000" RATLDCT holds shared line

\$RAT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
RATALM	48	80	RATTLE	48	48
RATBUFSZ	24		RATTOKA	10	
RATCONF	1E		RATTYPE	18	
RATCONF C	48	20	RATVALID	48	2
RATCONF D	48	4	RATWTIME	26	
RATCONF I	48	8	RAT2NSHR	48	40
RATCONF J	48	40	RAT2QSCN	48	80
RATCONF S	48	2	RAT2SHRE	48	20
RATCONF T	48	80			
RATCONRT	20				
RATDINTV	2A				
RATEND	48				
RATFEAT	1A				
RATFLAGS	28				
RATFLAG2	29				
RATFMT	19				
RATIMER	2C				
RATLDCT	C				
RATLOGN	44				
RATNAME	0				
RATNODE	14				
RATNUMPR	1C				
RATNUMPU	1D				
RATNUMRD	1B				
RATOUTPT	48	1			
RATPILUN	48	10			
RATPSWD	38				
RATRDCT	8				
RATRMJQE	40				
RATROUTE	14				
RATRTE	16				
RATSRMT	48	40			
RATSYMB	30				
RATTINT	48	20			

\$RCPWORK Programming Interface information

Programming Interface information

\$RCPWORK

End of Programming Interface information

\$RCPWORK Heading Information

Common Name: JES2 Remote Console Processor
Macro ID: \$RCPWORK
DSECT Name: PCE (\$RCPWORK 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 RCPPCEWS 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 \$MCONPCE field of the \$HCT data area points to the remote console PCE. See \$PCE for other pointer fields that apply to all PCE types.

Serialization: Normal PCE dispatch serialization
Function: The fields in this work area are used by the JES2 remote console processor. \$RCPWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$RCPWORK are actually part of the PCE DSECT, but only map the PCE with the value PCERCPID in the second byte of field PCEID.

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

\$RCPWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP REMOTE CONSOLE PROCESSOR
Comment					
REMOTE CONSOLE DEVICE CONTROL TABLE (WITH COMBINED BSC AND SNA FOUNDATION EXTENSIONS)					
End of Comment					
216	(D8)	DBL WORD	8	(0)	BEGINNING OF DCT
216	(D8)	BITSTRING	1	RCPDCT	BSC RMT DCT & EXTNSN
Comment					
END OF REMOTE CONSOLE DEVICE CONTROL TABLE					
End of Comment					
320	(140)	ADDRESS	1	RCPWF	WORK/WAIT FLAGS
321	(141)	BITSTRING	1	RCPWF2	MORE WORK/WAIT FLAGS
322	(142)	ADDRESS	1	RCPMF	MESSAGE PENDING FLAGS
324	(144)	ADDRESS	4	RCPJQTMR	WAITING FOR JOB QUEUE TIMER
328	(148)	DBL WORD	8	RCPEXTPL	RCP EXTP PARAMETER LIST AREA
336	(150)	DBL WORD	8	RCPBASET	TIME OF SCAN

Offsets

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

Comment

CURRENT CONCURRENT FUNCTION EXIT ADDRESSES

End of Comment

344	(158)	SIGNED	4	RCPXIT (0)	
344	(158)	ADDRESS	4	RCPMSXIT	EXIT TO MESSAGE SPOOLING CHECK RTN
348	(15C)	ADDRESS	4	RCPSOXIT	EXIT TO SPOOLING OUT FUNCTION
352	(160)	ADDRESS	4	RCPSIXIT	EXIT TO SPOOLING IN FUNCTION
356	(164)	ADDRESS	4	RCPIOXIT	EXIT TO INPUT FUNCTION
356	(164)	X'58 00010'	0	RCPDMXCN	"RCPXIT,*-RCPXIT"
360	(168)	SIGNED	4	RCPREGSV (16)	INTERNAL RCP SAVE/WORK AREA
424	(1A8)	ADDRESS	4	RCPIOT	IOT BUFFER
428	(1AC)	ADDRESS	4	RCPSWELQ	Pending SAF requests

Comment

MESSAGE SPOOLING CONTROLS

End of Comment

432	(1B0)	ADDRESS	4	RCPMSB1	FIRST MESSAGE BUFFER ADDRESS
436	(1B4)	ADDRESS	4	RCPMSBL	LAST MESSAGE BUFFER ADDRESS
440	(1B8)	ADDRESS	4	RCPMSLBW	LAST BUFFER WRITTEN TO MSG DS + 1
444	(1BC)	ADDRESS	4	RCPMSCB	NEXT MESSAGE SPOOL BUFFER TO CHECK
448	(1C0)	ADDRESS	4	RCPMSBSV	NEXT MSG BUFFER TO PROCESS
452	(1C4)	ADDRESS	4	RCPMSRRD	BFR CURRENTLY BEING REREAD
456	(1C8)	ADDRESS	4	RCPMSIOT	ADDRESS OF CURRENT RMT MSG IOT
460	(1CC)	ADDRESS	4	RCPMSBAT	BAT for IOT buffer
464	(1D0)	ADDRESS	4	RCPMSRAT	ADDRESS OF CURRENT RAT ELEMENT
468	(1D4)	ADDRESS	4	RCPMSNTK	MTRR OF NEXT MSG REC TO WRITE
472	(1D8)	ADDRESS	4	RCPMSBMB	CMB address
476	(1DC)	ADDRESS	4	RCPMSHDR	SAVE AREA FOR CMB HEADER
480	(1E0)	ADDRESS	4	RCPMSRTE	RMT NO. OF CMB BEING SPOOLED
484	(1E4)	ADDRESS	4	RCPROUT	SCANNED OUTPUT REMOTE NUMBER
488	(1E8)	CHARACTER	8	RCPMSKEY (0)	REMOTE MESSAGE DS KEY
488	(1E8)	SIGNED	4	RCPMSKJK	JOB IDENTIFIER KEY
492	(1EC)	SIGNED	4	RCPMSKDK	DATA SET KEY
496	(1F0)	ADDRESS	2	RCPBFSSZ	CONSOLE BUFFER SIZE
498	(1F2)	BITSTRING	1	RCPCFLG	CMB processing flags
498	(1F2)	BITSTRING	0	RCPCFQCH	"B'10000000" CMB has been dechained from \$BUSYRQ, OK to run entire chain
498	(1F2)	BITSTRING	0	RCPCFVTS	"B'01000000" SNA buffer shortage HASP248 has been issued
498	(1F2)	BITSTRING	0	RCPCFBSS	"B'00100000" BSC buffer shortage HASP248 has been issued
498	(1F2)	BITSTRING	0	RCPCFMLM	"B'00010000" MLLM suspended HASP248 has been issued
498	(1F2)	BITSTRING	0	RCPCFPLF	"B'00001000" All CMBs dequeued from CCTNOUSQ
499	(1F3)	ADDRESS	1		RESERVED FOR FUTURE USE

Comment

SPOOL OUT CONTROLS

End of Comment

500	(1F4)	ADDRESS	4	RCPSOBAK	BACK UP ADDRESS TO SPOOL OUT BUFFER
504	(1F8)	ADDRESS	4	RCPSOOUT	SHARED QUEUE OUTPUT BUFFER ADDRESS
508	(1FC)	ADDRESS	4	RCPSOLR	LOCATION OF LOGICAL RECORD
512	(200)	ADDRESS	2	RCPSOFRE	FREE DATA COUNT
514	(202)	ADDRESS	2	RCPSOCTR	COUNTER
516	(204)	ADDRESS	4	RCPSOQSE	CURRENT OUTPUT QSE ADDRESS
516	(204)	X'C	0	RCPTABBL	"L'IOTRCPBA+L'TABRCPBA" BACK-UP AREA FOR 1 SYSTEM
520	(208)	BITSTRING	1	RCPTABBA (0)	Work data for \$TRACK
904	(388)	ADDRESS	3	RCPSORT	CURRENT NODE-QUALIFIER TO SPOOL

\$RCPWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
NODAL OUTPUT CONTROL					
End of Comment					
907	(38B)	ADDRESS	3	RCPNORT	CURRENT NODE TO NODE OUT
910	(38E)	BITSTRING	3	RCPNMRP	3-BYTE PREFACE TO NODAL MSG REC
Comment					
NOTE: MUST ALWAYS PRECEDE NMR ASSEMBLY AREA --- USED BY \$EXTP PUT TO BUILD RID					
End of Comment					
913	(391)	BITSTRING	178	RCPNMR	ASSEMBLY AREA FOR NODAL MESSAGE RECS
1091	(443)	ADDRESS	1	RCPAUTH	NODAL COMMAND AUTHORITY RESTRICTIONS
1092	(444)	ADDRESS	4	RCPNODCT	CURRENT NODAL OUTPUT DCT ADDR
1096	(448)	ADDRESS	4	RCPNPMB	DELAY TIMER FOR BUSY PATH MANAGER
Comment					
SHARED QUEUE INPUT CONTROL					
End of Comment					
1100	(44C)	ADDRESS	4	RCPSIIN	SHARED QUEUE INPUT BUFFER
1104	(450)	ADDRESS	4	RCPSILR	LOCATION OF LOGICAL RECORD
1108	(454)	ADDRESS	2	RCPSICTR	COUNTER
1110	(456)	ADDRESS	2	RCPSICTA	COUNTER
1112	(458)	ADDRESS	4	RCPSIQSQ	CURRENT INPUT QSE CONTROL ELEMENT
1116	(45C)	ADDRESS	4	RCPMTTR	SAVE AREA - CURRENT INPUT MTTR
1120	(460)	ADDRESS	2	RCPSID	System id number
1122	(462)	BITSTRING	48	RCPSIRT	CMB SPOOL HEADER IN MLWTO
1170	(492)	ADDRESS	2	RCPSIQCT	QSE SEARCH COUNTER SAVE AREA
Comment					
INPUT FUNCTION SPOOL OUT CONTROL					
End of Comment					
1172	(494)	ADDRESS	4	RCPIOOUT	INPUT OVERFLOW OUTPUT BUFFER ADDRESS
1176	(498)	ADDRESS	4	RCPIOLR	LOCATION OF LOGICAL RECORD
1180	(49C)	ADDRESS	2	RCPIOFRE	FREE DATA COUNT
1182	(49E)	ADDRESS	2	RCPIOCTR	COUNTER
1184	(4A0)	ADDRESS	4	RCPIOTTR	ACTIVE INPUT SPOOL OUTPUT RECRD
Comment					
NODAL INPUT CONTROL					
End of Comment					
1188	(4A4)	ADDRESS	4	RCPININ	INPUT OVERFLOW INPUT BUFFER
1192	(4A8)	ADDRESS	4	RCPINLNE	CURRENT INPUT SOURCE DCT ADDR
1196	(4AC)	ADDRESS	4	RCPINTME	LINE INPUT DELAY TIMER

Offsets

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

Area to receive commands from RJE's and NJE nodes Note that RCPTOKN is not referred to by name; the token is moved to the next available byte after the command.					

End of Comment					
1200	(4B0)	BITSTRING	216	RCPIN	Cmd/msg input work area
1416	(588)	BITSTRING	256	RCPINA	AREA TO RECEIVE DATA
1672	(688)	BITSTRING	1	RCPTOKN	Area for token

Comment					
MISCELLANEOUS					
End of Comment					
1752	(6D8)	SIGNED	4	(0)	Ensure alignment
1752	(6D8)	CHARACTER	64	RCPSAFPM	Parameters for MSAFCHK
1816	(718)	ADDRESS	1	RCPFL	FLAGS
1817	(719)	ADDRESS	1	RCPFI	FLAGS FOR INPUT FUNCTIONS
1818	(71A)	ADDRESS	2	RCPSCQOF	Offset of this member's SCQ
1820	(71C)	ADDRESS	4	RCPSCQAD	Addr of this member's SCQS
1824	(720)	ADDRESS	4	RCPRESV	RESERVED BUFFER
1828	(724)	BITSTRING	48	RCPLSAV	MLWTO CNTRL FOR INPUT LNES
1876	(754)	CHARACTER	18	RCPDSTWK	DEST WORK AREA
1894	(766)	CHARACTER	1	RCPRSV1	RESERVED FOR FUTURE USE

Comment					
LIST FORM OF GETMAIN					
End of Comment					
1896	(768)	ADDRESS	4	RCPGM	LENGTH
1900	(76C)	ADDRESS	4		ADDR. OF ADDR. LIST
1904	(770)	BITSTRING	1		MODE AND OPTION FLAGS
1905	(771)	ADDRESS	1		SUBPOOL VALUE
1896	(768)	ADDRESS	4	RCPXSAV (3)	EXIT ROUTINE ACTIVATOR SAVE AREA
1908	(774)	ADDRESS	2	RCPSIDEL (0)	Offsets for interrupted READs
1972	(7B4)	ADDRESS	4	RCPSIDL	CURRENT INTERRUPTED READ OFFSET
1976	(7B8)	SIGNED	4	RCPREGS (16)	Save area for \$SETAFF macro

Comment					
Parameter list and other work areas for MVS Cloning translation service routine.					
End of Comment					
2040	(7F8)	SIGNED	4	RCPSYMBP (0)	Parameter List
2068	(814)	SIGNED	4	RCPSYMLN	Length of translated cmd
2072	(818)	SIGNED	4	RCPSYMRC	RC from translation service
2076	(81C)	ADDRESS	4	RCPSYMBF	Addr of trans output bfr
2076	(81C)	X'48	0	RCPPCEWS	** -PCEWORK"

Comment					
RCPWF DEFINITIONS					
End of Comment					
2076	(81C)	BITSTRING	0	RCPWFCMB	"B'10000000" WAIT ON CMB
2076	(81C)	BITSTRING	0	RCPWFQX	"B'01000000" WAIT ON JOB QUEUE IN EXIT

\$RCPWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2076	(81C)	BITSTRING	0	RCPWFQO	"B'00100000" WAIT ON JOB QUEUE FOR OUTPUT
2076	(81C)	BITSTRING	0	RCPWFTRK	"B'00010000" WAIT ON \$TRACK
2076	(81C)	BITSTRING	0	RCPWFPCB	"B'00001000" PURGE CMB (CMB SHORTAGE)
2076	(81C)	BITSTRING	0	RCPWFBUF	"B'00000100" WAIT ON TP BUFFER
2076	(81C)	BITSTRING	0	RCPWFIBF	"B'00000010" WAIT ON INPUT TP BUFFER
2076	(81C)	BITSTRING	0	RCPWFPSO	"B'00000001" PURGE SPOOL OUTPUT BUFFER
Comment					
RCPWF2 DEFINITIONS					
End of Comment					
2076	(81C)	BITSTRING	0	RCPWF2ML	"B'01000000" MLWTO IN PROGRESS
Comment					
RCPFL DEFINITIONS					
End of Comment					
2076	(81C)	BITSTRING	0	RCPFLSOM	"B'10000000" SPOOLING OUT WORKING ON MLWTO
2076	(81C)	BITSTRING	0	RCPFLSOE	"B'01000000" SPOOLING OUT DISASTROUS ERROR FLAG
2076	(81C)	BITSTRING	0	RCPFLNOM	"B'00100000" NODAL OUT WORKING ON MLWTO
Comment					
EQU B'00010000' Reserved for future use					
End of Comment					
2076	(81C)	BITSTRING	0	RCPFLTML	"B'00001000" WE ARE CURRENTLY TRANSMITTING MLWTO
2076	(81C)	BITSTRING	0	RCPFLT	"B'00000100" TEMPORARY CONDITION INDICATOR
2076	(81C)	BITSTRING	0	RCPFLMXM	"B'00000010" &SPOLMSG MAX MSG RECS REACHED
2076	(81C)	BITSTRING	0	RCPFLIOE	"B'00000001" I/O ERROR SPOOLING RMT MSGS
Comment					
RCPMF DEFINITIONS					
End of Comment					
2076	(81C)	BITSTRING	0	RCPMFSPF	"B'10000000" MTTRVAL error
2076	(81C)	BITSTRING	0	RCPMFRRD	"B'01000000" ERROR READING REMOTE MSGS
2076	(81C)	BITSTRING	0	RCPMFRWR	"B'00100000" ERROR WRITING REMOTE MSGS
2076	(81C)	BITSTRING	0	RCPMFMNU	"B'00010000" SPOOL MEM NOT UP-MSGS DISCARDED
2076	(81C)	BITSTRING	0	RCPMFMAX	"B'00001000" MSG LIMIT REACHED ON INPUT
2076	(81C)	BITSTRING	0	RCPMFMQE	"B'00000100" MAX MSGS TO SPOOL Q EXCEEDED
2076	(81C)	BITSTRING	0	RCPMFSMP	"B'00000010" SPOOL OUT ERROR MESSAGE PENDING
2076	(81C)	BITSTRING	0	RCPMFIMP	"B'00000001" INPUT ERROR MESSAGE PENDING
2076	(81C)	BITSTRING	0	RCPMFEND	"B'01111111" Bits used in RCPMF - used to determine if a message needs to be issued.
Comment					
RCPFI DEFINITIONS					
End of Comment					
2076	(81C)	BITSTRING	0	RCPFIIIE	"B'10000000" ERROR ON INPUT
2076	(81C)	BITSTRING	0	RCPFIM	"B'01000000" NODE INPUT IS PROCESSING MLWTO
2076	(81C)	BITSTRING	0	RCPFISP	"B'00100000" INPUT SPOOLING IS ACTIVE
2076	(81C)	BITSTRING	0	RCPFIOE	"B'00010000" INPUT SPOOL OUT ERROR
2076	(81C)	BITSTRING	0	RCPFISID	"B'00001000" SPOOL BUFFER HAS DATA
2076	(81C)	BITSTRING	0	RCPFINUL	"B'00000100" INPUT SPOOL DISCARDING
2076	(81C)	BITSTRING	0	RCPFIA	"B'00000010" INPUT SPOOL WRITING
2076	(81C)	BITSTRING	0	RCPFIR	"B'00000001" PAGE RELEASE REQUIRED ON SPOOL INPUT

\$RCPWORK Cross Reference

Name	Hex Offset	Hex Value		Name	Hex Offset	Hex Value
RCPAUTH	443			RCPMSKDK	1EC	
RCPBASET	150	0		RCPMSKEY	1E8	
RCPBFSZ	1F0			RCPMSKJK	1E8	
RCPCFBSS	1F2	20		RCPMSLBW	1B8	
RCPCFLG	1F2			RCPMSNTK	1D4	
RCPCFMLM	1F2	10		RCPMSRAT	1D0	
RCPCFPLF	1F2	8		RCPMSRRD	1C4	
RCPCFQCH	1F2	80		RCPMSRTE	1E0	
RCPCFVTS	1F2	40		RCPMSXIT	158	
RCPDCT	D8	0		RCPMTTR	45C	
RCPDMXCN	164	58	00010	RCPNMR	391	0
RCPDSTWK	754			RCPNMRP	38E	0
RCPEXTPL	148	0		RCPNODCT	444	
RCPFI	719			RCPNORT	38B	
RCPFIA	81C	2		RCPNPMB	448	
RCPFIE	81C	80		RCPPCEWS	81C	48
RCPFIM	81C	40		RCPREGS	7B8	
RCPFINUL	81C	4		RCPREGSV	168	
RCPFIOE	81C	10		RCPRESV	720	
RCPFIR	81C	1		RCPROUT	1E4	
RCPFISID	81C	8		RCPRSV1	766	
RCPFISP	81C	20		RCPSAFPM	6D8	
RCPFL	718			RCPSCQAD	71C	
RCPFLIOE	81C	1		RCPSCQOF	71A	0
RCPFLMXM	81C	2		RCPSICTA	456	0
RCPFLNOM	81C	20		RCPSICTR	454	0
RCPFLSOE	81C	40		RCPSID	460	0
RCPFLSOM	81C	80		RCPSIDEL	774	0
RCPFLT	81C	4		RCPSIDL	7B4	
RCPFLTML	81C	8		RCPSIIN	44C	
RCPGM	768			RCPSILR	450	
RCPIN	4B0	0		RCPSIQCT	492	0
RCPINA	588	0		RCPSIQSQ	458	
RCPININ	4A4			RCPSIRT	462	0
RCPINLNE	4A8			RCPSIXIT	160	
RCPINTME	4AC			RCPSOBAK	1F4	
RCPIOCTR	49E	0		RCPSOCTR	202	0
RCPIOFRE	49C	0		RCPSOFRE	200	0
RCPIOLR	498			RCPSOLR	1FC	
RCPIOOUT	494			RCPSOOUT	1F8	
RCPIOT	1A8			RCPSOQSE	204	
RCPIOTTR	4A0			RCPSORT	388	
RCPIOXIT	164			RCPSOXIT	15C	
RCPJQTMR	144			RCPSWELQ	1AC	
RCPLSAV	724	0		RCPSYMBF	81C	
RCPMF	142			RCPSYMBP	7F8	
RCPMFIMP	81C	1		RCPSYMLN	814	
RCPMFMAX	81C	8		RCPSYMRC	818	
RCPMFMNU	81C	10		RCPTABBA	208	0
RCPMFMQE	81C	4		RCPTABBL	204	C
RCPMFPND	81C	7F		RCPTOKN	688	0
RCPMFRRD	81C	40		RCPWF	140	
RCPMFRWR	81C	20		RCPWFBUF	81C	4
RCPMFSMP	81C	2		RCPWFCMB	81C	80
RCPMFSPF	81C	80		RCPWFIBF	81C	2
RCPMSBAT	1CC			RCPWFPCB	81C	8
RCPMSBL	1B4			RCPWFPSO	81C	1
RCPMSBSV	1C0			RCPWFQO	81C	20
RCPMSB1	1B0			RCPWFQX	81C	40
RCPMSCB	1BC			RCPWFTRK	81C	10
RCPMSCMB	1D8			RCPWF2	141	0
RCPMSHDR	1DC			RCPWF2ML	81C	40
RCPMSIOT	1C8			RCPXIT	158	

\$RCPWORK Cross Reference

Name	Hex Offset	Hex Value
RCPXSAV	768	

\$RDRWORK Programming Interface information

Programming Interface information

\$RDRWORK

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

- RDWOCT
- RDWRJCB
- RDWRJCBS

End of Programming Interface information

\$RDRWORK Heading Information

Common Name: JES2 Input Services PCE Work Area
Macro ID: \$RDRWORK
DSECT Name: PCE (\$RDRWORK 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 RDWLEN for normal devices.
See RDWRJELN for RJE Input devices.
See RDWNJRLN for Network Job Receivers.
See RDWILEN for Internal Readers.
The overall length of the PCE is stored in field PCELENG.

Created by: Created by \$PCEDYN during JES2 initialization for most input services PCEs. PCEs for remote readers are an exception, they are created by \$PCEDYN when the remote for that reader is started.

Pointed to by: \$RDRPCE field of the \$HCT data area
\$INRPCE field of the \$HCT data area
\$TPRDPCE field of the \$HCT data area
\$NJR PCE field of the \$HCT data area
\$OJRPCE field of the \$HCT data area
\$NRRPCE field of the \$HCT data area
\$EXEC PCE field of the \$HCT data area
\$TRCPCE field of the \$HCT data area
\$OUTPCE field of the \$HCT data area
\$STACPCE field of the \$HCT data area
\$RESMPCE field of the \$HCT data area
\$SPOLPCE field of the \$HCT data area
DCTPCE field of the \$DCT 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 Input Service Processor and by its support routines and exits. \$RDRWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$RDRWORK are actually part of the PCE DSECT, but only map PCEs with the value PCERDRID, PCENJRID or PCENRRID in the second byte of field PCEID, and a few other PCE work areas that also contain the \$RDRWORK area; \$COMWORK, \$OUTWORK, \$PSOWORK, \$SPNWORK, \$TLGWORK, \$XEQWORK, and \$SPIWORK.

This PCE is device related. This processor type has a one-to-one relationship to devices. Field PCEDCT points to a Device Control Table (DCT) and field DCTPCE in that DCT points to this PCE.

\$RDRWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
216	(D8)	DBL WORD	8	RDWTEMP	DOUBLE WORD WORK AREA
224	(E0)	BITSTRING	1	RDWSW1	READER SWITCHES
225	(E1)	BITSTRING	1	RDWSW2	READER SWITCHES
226	(E2)	BITSTRING	1	RDWFLAGX	READER EXITS FLAG BYTE
227	(E3)	BITSTRING	1	RDWPSWD	PASSWORD processing field
227	(E3)	BITSTRING	0	\$RPASFND	"B'00000001" PASSWORD processed
227	(E3)	BITSTRING	0	\$RJOBERR	"B'00000010" Error on JOB card
227	(E3)	BITSTRING	0	\$RPSWPRC	"B'00000100" PASSWORD processing
227	(E3)	BITSTRING	0	\$RJOBFND	"B'00001000" JOB card being processed
227	(E3)	BITSTRING	0	\$RPSWCNT	"B'00010000" PASSWORD continuation found in RPUTSCAN routine
227	(E3)	BITSTRING	0	\$RNPASER	"B'00100000" Encrypted password network protocol error detected
228	(E4)	BITSTRING	1	RDWFSIZE	FIELD SIZE FOR ACCOUNTING SCAN
229	(E5)	BITSTRING	1	RDWSW3	READER SWITCHES
230	(E6)	SIGNED	2	RDWIOTCT	COUNT OF IOT'S USED
232	(E8)	SIGNED	4	RDWIOT	ADDRESS OF INPUT/OUTPUT TABLE
236	(EC)	SIGNED	4	RDWIOTL	ADDRESS OF LAST IOT
240	(F0)	SIGNED	4	RDWOCT	ADDRESS OF OUTPUT CONTROL TABLE
244	(F4)	SIGNED	4	RDWIBEND	ADDRESS OF LAST CARD IN INPUT BUFFER
248	(F8)	SIGNED	4	RDWOBUF	ADDRESS OF OUTPUT BUFFER
252	(FC)	SIGNED	4	RDWOBNXT	ADDR OF NEXT CARD IN OUTPUT BUFFER
256	(100)	SIGNED	4	RDWOBEND	ADDRESS OF END OF OUTPUT BUFFER
260	(104)	ADDRESS	4	RDWIBSTD	INPUT BUFFER START DISPLACEMENT
264	(108)	SIGNED	4	RDWLSV1	LINK REGISTER SAVE WORD 1
268	(10C)	SIGNED	4	RDWLSV2	LINK REGISTER SAVE WORD 2
272	(110)	SIGNED	4	RDWLSV3	LINK REGISTER SAVE WORD 3
276	(114)	SIGNED	4	RDWLSV4	LINK REGISTER SAVE AREA 4
280	(118)	SIGNED	4	RDWSAVE1	GENERAL PURPOSE SAVE WORD 1
284	(11C)	SIGNED	4	RDWSAVE2	GENERAL PURPOSE SAVE WORD 2
288	(120)	SIGNED	4	RDWSAVE3	GENERAL PURPOSE SAVE WORD 3
292	(124)	SIGNED	4	RDWSAVE4	GENERAL PURPOSE SAVE WORD 4
296	(128)	ADDRESS	4	RDWGENSV	ADDR OF PREVIOUS CARD WHEN INTERNALLY GENERATING JCL
300	(12C)	ADDRESS	4	RDWGENCD	ADDR OF GENERATED JCL WORK
304	(130)	SIGNED	4	RDWXPARM (0)	EXIT POINT PARAMETER LIST
304	(130)	SIGNED	4	RDWXC DPR	EXIT CARD POINTER
308	(134)	SIGNED	4	RDWXBPR	EXIT FLAG BYTE POINTER
312	(138)	SIGNED	4	RDWXWKPR	EXIT JCT WORK AREA POINTER
316	(13C)	CHARACTER	10	RDWDEST	DESTINATION WORK AREA
326	(146)	BITSTRING	1	RDWPSWCH	PARENTHESIS SWITCH
327	(147)	BITSTRING	1	RDWDELRS	"JOB DELETED" REASON CODE
327	(147)	X'1	0	RDWDJOB	"1" ILLEGAL JOB CARD
327	(147)	X'2	0	RDWDXIT4	"2" EXIT 4 ILLEGAL CNTRL CARD
327	(147)	X'3	0	RDWDCONT	"3" ERROR ON CONTINUATION
327	(147)	X'4	0	RDWDDELP	"4" DEL OR PURGE JECL
327	(147)	X'5	0	RDWDOPER	"5" OPERATOR COMMAND
327	(147)	X'6	0	RDWDERR	"6" PROCESSING ERROR
327	(147)	X'7	0	RDWDIOER	"7" I/O ERROR
327	(147)	X'8	0	RDWDJECL	"8" ILLEGAL JECL CARD
327	(147)	X'9	0	RDWDXEQN	"9" ILLEGAL EXECUTION NODE
327	(147)	X'A	0	RDWDSYSN	"10" EXCESSIVE SYSIN STMTS
327	(147)	X'B	0	RDWDSTOP	"11" DEVICE CANCELED OR STOPED
327	(147)	X'C	0	RDWDACCT	"12" ILLEGAL ACCT FIELD JOB CD
327	(147)	X'D	0	RDWDSAF	"13" UNSUPPORTED SAF RETURN CD

\$RDRWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
327	(147)	X'E	0	RDWDPROT	"14" NJE PROTOCOL ERROR
328	(148)	SIGNED	4	RDWJTRAK	TRACK ADDRESS OF NEXT JCL BLOCK
332	(14C)	CHARACTER	2	RDWJPRIO	PRIORITY FROM PRIO OR PRTY=
334	(14E)	BITSTRING	4	RDWSAF	System affinity
338	(152)	BITSTRING	1	RDWINFLG	INPUT RECORD FLAGS
339	(153)	BITSTRING	1	RDWCCTL	CARRIAGE CONTROL
340	(154)	BITSTRING	1	RDWCDLEN	CARD LENGTH
341	(155)	BITSTRING	1	RDWCDLRC	CARD LOGICAL RECORD CONTROL BYTE
342	(156)	BITSTRING	1	RDWCDLRL	CARD LOGICAL RECORD LENGTH
344	(158)	SIGNED	4	RDWDSKEY	DATA SET KEY
348	(15C)	CHARACTER	2	RDWDLM	INPUT DATA SET DELIMITER
350	(15E)	BITSTRING	1	RDWSW4	Fourth reader flag byte
351	(15F)	BITSTRING	1	RDWNEXTQ	NEXT PHASE OF PROCESSING
352	(160)	SIGNED	4	RDWCNTRR	COUNT OF RECORDS RECEIVED
356	(164)	ADDRESS	4	RDWSMFB	SMF BUFFER POINTER
360	(168)	ADDRESS	4	RDWSQD	ADDRESS OF SQD
364	(16C)	ADDRESS	4	RDWTWA	ADDRESS OF TOKEN WORK AREA
368	(170)	ADDRESS	4	RDWNJEHD	Address of Header cell pool
372	(174)	ADDRESS	4	RDWNJETR	Address of Trailer cellpool
376	(178)	ADDRESS	4	RDWNJOFF	Address of offload section
380	(17C)	SIGNED	4	RDWJCTSV	Temporary JCT save area
384	(180)	CHARACTER	136	RDWSAFI	SAFINFO parameter list
520	(208)	CHARACTER	200	RDWMSG	RDR MESSAGE AREA
720	(2D0)	ADDRESS	4	RDWRJCB	Address of first RJCB
724	(2D4)	ADDRESS	4	RDWRJCBS	Save area for RJCB address
728	(2D8)	ADDRESS	4	RDWJECLT	Addr of JECL table
732	(2DC)	CHARACTER	8	RDWDNODE	Dest Node Name Work Area
740	(2E4)	CHARACTER	8	RDWDUSER	Dest Userid Work Area
748	(2EC)	SIGNED	2	RDWDEFND	Dest Default Node Work Area
750	(2EE)	BITSTRING	1	RDWSW5	Fifth reader flag byte
750	(2EE)	BITSTRING	0	RDW5JBON	"B'00000001" \$HASP100 msg issued
750	(2EE)	BITSTRING	0	RDW5DED	"B'00000010" Job being deleted due to excessive SYSIN DDs
750	(2EE)	BITSTRING	0	RDW5INTJ	"B'00000100" Create internal job
750	(2EE)	BITSTRING	0	RDW5N2JB	"B'00001000" Two job cards not allowed
750	(2EE)	BITSTRING	0	RDW5E20T	"B'00010000" Job terminated by exit 20
750	(2EE)	BITSTRING	0	RDW5ACNF	"B'00100000" Accounting field not found
750	(2EE)	BITSTRING	0	RDW5CPUT	"B'01000000" Current card image has been written to output dataset
750	(2EE)	BITSTRING	0	RDW5IND	"B'10000000" Independent mode
751	(2EF)	BITSTRING	1	RDWASWCH	Apostrophe Switch
752	(2F0)	CHARACTER	8	RDWJOBID	Jobid Work Area
760	(2F8)	CHARACTER	1	RDWSVCLS	Saved job class
761	(2F9)	CHARACTER	7		Reserved - 8 char jobclass

Comment

Estimates for LINES/BYTES/CARDS/PAGES scanned from the job statement.

End of Comment

768	(300)	SIGNED	4	RDWESTLN	Line estimate
772	(304)	SIGNED	4	RDWESTPU	Punch estimate
776	(308)	SIGNED	4	RDWESTPG	Page estimate
780	(30C)	SIGNED	4	RDWESTBY	Byte estimate
780	(30C)	X'10'	0	RDWESTXX	"RDWESTLN,*-RDWESTLN" Length of all estimate flds
784	(310)	SIGNED	4	RDWRECCT	Total input records (from NJH)
788	(314)	SIGNED	4	RDWCURRC	Records received so far
792	(318)	BITSTRING	2	RDWDEFLR	Default LRECL for SYSIN DS
794	(31A)	BITSTRING	1	RDWDEFRR	Default RECFM for SYSIN DS, bits defined in DCB under DCBRECFM
795	(31B)	BITSTRING	1	RDWUDFRF	Ultimate default RECFM for SYSIN datasets for the job
796	(31C)	SIGNED	2	RDWMAXRL	Longest sysin record scanned so far
798	(31E)	BITSTRING	2	RDWUDFLR	Ultimate default LRECL for SYSIN datasets for the job
800	(320)	ADDRESS	4	RDWSCRBF	Address of buffer that has SCR pointed to by RDWSCRAD

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
804	(324)	ADDRESS	4	RDWSCRAD	Address of SCR within buffer pointed to by RDWSCRBF. This SCR has the default LRECL for the sysin data set.
808	(328)	ADDRESS	4	RDWJMTTR	Track address of JCL buffer pointed to by RDWSCRBF
812	(32C)	CHARACTER	10	RDWDEVN	Job name for messages
822	(336)	BITSTRING	1	RDWSW6	Sixth reader flag byte
822	(336)	BITSTRING	0	RDW6NOBF	"B'00000001" First output buffer not yet created
823	(337)	BITSTRING	1		RESERVED
824	(338)	ADDRESS	4	RDWSSCRA	Address of special SCR built for RCCS headers received prior to JOB card
828	(33C)	SIGNED	4	RDWINJNO	Initial job number
832	(340)	SIGNED	4	RDWTASUM	Running total of accounting string unit moved
836	(344)	SIGNED	4	(4)	RESERVED
836	(344)	X'7C	0	RDWLEN	** -PCEWORK" LENGTH OF NORMAL INPUT PCE WORK AREA
836	(344)	X'54	0	RDWORG	*** START OF READER EXTENSIONS

Comment

WORK AREA FOR RJE INPUT DEVICES

End of Comment

852	(354)	SIGNED	4	RDWPDDDB	SAVE AREA FOR PDDDB ADDRESS
856	(358)	CHARACTER	260	RDWRJECD (0)	REMOTE READER INPUT AREA
856	(358)	CHARACTER	256	RDWRCARD	MAX RJE CARD IMAGE SIZE
1112	(458)	CHARACTER	4	RDWRCDXT	RESERVED FOR XTRA WK SPACE
1112	(458)	X'84	0	RDWRJELN	** -PCEWORK" LENGTH OF RJE INPUT PCE WORK AREA

Comment

WORK AREA FOR NETWORK JOB RECEIVERS

End of Comment

852	(354)	SIGNED	4		SAVE AREA FOR PDDDB ADDRESS
856	(358)	BITSTRING	260	RDWNJRCD (0)	JOB RECEIVER INPUT AREA
856	(358)	BITSTRING	256	RDWNCARD	MAXIMUM NJE HEADER SIZE
1112	(458)	BITSTRING	4	RDWNCDXT	RESERVED FOR XTRA WK SPACE
1112	(458)	X'84	0	RDWNJRLN	** -PCEWORK" JOB RECEIVER PCE WORK AREA LENGTH

Comment

WORK AREA FOR INTERNAL READER PCES

End of Comment

852	(354)	BITSTRING	256	RDWIWORK	BUFFER FOR CARD IMAGE
852	(354)	X'7C	0	RDWILEN	** -PCEWORK" LENGTH OF INTRDR PCE WORKAREA
				RDWSW1	
852	(354)	BITSTRING	0	RDW1FLSH	"X'01" JOB FLUSH SWITCH
852	(354)	BITSTRING	0	RDW1NOSC	"X'02" NO CARD SCAN SWITCH
852	(354)	BITSTRING	0	RDW1EOF	"X'04" END-OF-FILE SWITCH
852	(354)	BITSTRING	0	RDW1JCLS	"X'08" JOB CONTROL LANGUAGE SWITCH
852	(354)	BITSTRING	0	RDW1GDDP	"X'10" GENERATED DD * PROCESSING
852	(354)	BITSTRING	0	RDW1XBCH	"X'20" XEQ BATCH CLASS JOB SWITCH
852	(354)	BITSTRING	0	RDW1ABRT	"X'40" READER PURGE SWITCH
852	(354)	BITSTRING	0	RDW1JKIL	"X'80" JOB KILLED VIA RJOBKILL
852	(354)	BITSTRING	0	RDW1UNEX	"X'01" UNIT EXCEPTION BIT RDWSW2
852	(354)	BITSTRING	0	RDW2JCLH	"X'01" TYPRUN=JCLHOLD
852	(354)	BITSTRING	0	RDW2XMIT	"X'02" OFF - XMIT ALLOWED AFTER JOB OR COMMENT
					CARDS ON - XMIT NOT ALLOWED
852	(354)	BITSTRING	0	RDW2JDEL	"X'04" NJE JOB DELETED SWITCH
852	(354)	BITSTRING	0	RDW2COPY	"X'08" TYPRUN=COPY FLAG.
852	(354)	BITSTRING	0	RDW2JCAN	"X'10" NJE JOB CANCEL SWITCH
852	(354)	BITSTRING	0	RDW2PURG	"X'20" QUEUE FOR \$OUTPUT SWITCH
852	(354)	BITSTRING	0	RDW2HDSC	"X'40" SCAN HEADER FLAG

\$RDRWORK Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
852	(354)	BITSTRING	0	RDW2IOT2	"X'80" SYS DS NEEDS TWO IOTS OTHER READER EQUATES
852	(354)	BITSTRING	0	RDWSIOCS	"X'10" SIO CSW STORED BIT
852	(354)	BITSTRING	0	RDWSIOCC	"X'30" SIO COMPLETION CODE BITS RDWFLAGX
852	(354)	BITSTRING	0	RDWXJCL	"X'01" JCL CARD DETECTED
852	(354)	BITSTRING	0	RDWXJECL	"X'02" JECL CARD DETECTED
852	(354)	BITSTRING	0	RDWXJOB	"X'04" JOB CARD DETECTED
852	(354)	BITSTRING	0	RDWXCONT	"X'08" CONTINUATION CARD DETECTED
852	(354)	BITSTRING	0	RDWXXSNC	"X'10" EXIT SUPPLIED NEXT CARD
852	(354)	BITSTRING	0	RDWXXSEM	"X'20" EXIT SUPPLIED ERROR MESSAGE
852	(354)	BITSTRING	0	RDWXJOBP	"X'40" JOBPARM CARD DETECTED RDWSW3
852	(354)	BITSTRING	0	RDW3USRP	"X'80" USERID IN PARENS
852	(354)	BITSTRING	0	RDWILLCN	"X'40" ILLEGAL CONTINUATION
852	(354)	BITSTRING	0	RDWCNEOF	"X'20" CONTINUATION AT EOF
852	(354)	BITSTRING	0	RDW3DRN	"X'10" SPOF RECEIVER BEING DRAINED
852	(354)	BITSTRING	0	RDW3SHLD	"X'08" HOLD JOB FOR SPOF SMF
852	(354)	BITSTRING	0	RDW3SCRW	"X'10" SCR WRITTEN FOR SYSIN DD
852	(354)	BITSTRING	0	RDW3GT1	"X'01" EXTP ALREADY DONE
852	(354)	BITSTRING	0	RDWMULT	"X'02" MULTIPLE JOB CARDS DETECTED
852	(354)	BITSTRING	0	RDW3FLXM	"X'04" Flush XMIT stream RDWSW4
852	(354)	BITSTRING	0	RDW4GJCL	"X'80" Generated JCL card
852	(354)	BITSTRING	0	RDW4JVfy	"X'40" Job has been verified
852	(354)	BITSTRING	0	RDW4JSRD	"X'20" At least one JOB stmt read since the last physical EOF
852	(354)	BITSTRING	0	RDW4SREQ	"X'10" Submitter's token required
852	(354)	BITSTRING	0	RDW4IXEQ	"X'08" Invalid XEQ card detected
852	(354)	BITSTRING	0	RDW4JCLE	"X'04" JOB CONTAINS A JECL ERROR
852	(354)	BITSTRING	0	RDW4SKPM	"X'02" SKIPPING FOR JOB CARD MESSAGE CAN BE ISSUED FOR NETWORK RECEIVER
852	(354)	BITSTRING	0	RDW4CREQ	"X'01" JOB CANCEL REQUEST BY EXIT2

\$RDRWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$RJOBERR	E3	2	RDWDPROT	147	E
\$RJOFBND	E3	8	RDWDSAF	147	D
\$RNPASER	E3	20	RDWDSKEY	158	
\$RPASFND	E3	1	RDWDSTOP	147	B
\$RPSWCNT	E3	10	RDWDSYSN	147	A
\$RPSWPRC	E3	4	RDWDUSER	2E4	
RDWASWCH	2EF		RDWDXEQN	147	9
RDWCCTL	153		RDWDXIT4	147	2
RDWCDLEN	154		RDWESTBY	30C	
RDWCDLRC	155		RDWESTLN	300	
RDWCDLRL	156		RDWESTPG	308	
RDWCNEOF	354	20	RDWESTPU	304	
RDWCNTRR	160		RDWESTXX	30C	10
RDWCURRC	314		RDWFLAGX	E2	
RDWDACCT	147	C	RDWFSIZE	E4	
RDWDCONT	147	3	RDWGENCD	12C	
RDWDDELP	147	4	RDWGENSV	128	
RDWDEFLR	318		RDWIBEND	F4	
RDWDEFND	2EC		RDWIBSTD	104	
RDWDEFRF	31A		RDWILEN	354	7C
RDWDELRS	147		RDWILLCN	354	40
RDWDERR	147	6	RDWINFLG	152	
RDWDEST	13C		RDWINJNO	33C	
RDWDEVN	32C		RDWIOT	E8	
RDWDIOER	147	7	RDWIOTCT	E6	
RDWDJECL	147	8	RDWIOTL	EC	
RDWDJOB	147	1	RDWIWORK	354	
RDWDLM	15C		RDWJCTSV	17C	
RDWDNODE	2DC		RDWJECLT	2D8	
RDWDOPER	147	5	RDWJMTTR	328	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
RDWJOBID	2F0		RDWXJOBP	354	40
RDWJPRI0	14C		RDWXPARM	130	
RDWJTRAK	148		RDWXWKPR	138	
RDWLEN	344	7C	RDWXXSEM	354	20
RDWLSV1	108		RDWXXSNC	354	10
RDWLSV2	10C		RDW1ABRT	354	40
RDWLSV3	110		RDW1EOF	354	4
RDWLSV4	114		RDW1FLSH	354	1
RDWMAXRL	31C		RDW1GDDP	354	10
RDWMSG	208		RDW1JCLS	354	8
RDWMULT	354	2	RDW1JKIL	354	80
RDWNCARD	358		RDW1NOSC	354	2
RDWNCDXT	458		RDW1UNEX	354	1
RDWNEXTQ	15F		RDW1XBCH	354	20
RDWNJEHD	170		RDW2COPY	354	8
RDWNJETR	174		RDW2HDSC	354	40
RDWNJOFF	178		RDW2IOT2	354	80
RDWNJRCD	358		RDW2JCAN	354	10
RDWNJRLN	458	84	RDW2JCLH	354	1
RDWOBEND	100		RDW2JDEL	354	4
RDWOBNXT	FC		RDW2PURG	354	20
RDWOBUF	F8		RDW2XMIT	354	2
RDWOCT	F0		RDW3DRN	354	10
RDWORG	344	54	RDW3FLXM	354	4
RDWPDDB	354		RDW3GT1	354	1
RDWPSWCH	146		RDW3SCRW	354	10
RDWPSWD	E3		RDW3SHLD	354	8
RDWRCARD	358		RDW3USRP	354	80
RDWRCDXT	458		RDW4CREQ	354	1
RDWRECCT	310		RDW4GJCL	354	80
RDWRJCB	2D0		RDW4IXEQ	354	8
RDWRJCBS	2D4		RDW4JCLE	354	4
RDWRJECD	358		RDW4JSRD	354	20
RDWRJELN	458	84	RDW4JVFY	354	40
RDWSAF	14E		RDW4SKPM	354	2
RDWSAFI	180		RDW4SREQ	354	10
RDWSAVE1	118		RDW5ACNF	2EE	20
RDWSAVE2	11C		RDW5CPUT	2EE	40
RDWSAVE3	120		RDW5DED	2EE	2
RDWSAVE4	124		RDW5E20T	2EE	10
RDWSCRAD	324		RDW5IND	2EE	80
RDWSCRBF	320		RDW5INTJ	2EE	4
RDWSIOCC	354	30	RDW5JBON	2EE	1
RDWSIOCS	354	10	RDW5N2JB	2EE	8
RDWSMFB	164		RDW6NOBF	336	1
RDWSQD	168				
RDWSSCRA	338				
RDWSVCLS	2F8				
RDWSW1	E0				
RDWSW2	E1				
RDWSW3	E5				
RDWSW4	15E				
RDWSW5	2EE				
RDWSW6	336				
RDWTASUM	340				
RDWTEMP	D8				
RDWTWA	16C				
RDWUDFLR	31E				
RDWUDFRF	31B				
RDWXCDPR	130				
RDWXCONT	354	8			
RDWXFBPR	134				
RDWXJCL	354	1			
RDWXJECL	354	2			
RDWXJOB	354	4			

\$RDRWORK Cross Reference

\$RESNAM Programming Interface information

Programming Interface information

\$RESNAM

End of Programming Interface information

\$RESNAM Heading Information

Common Name: JES2 Resource Name Mapping
Macro ID: \$RESNAM
DSECT Name: RESNAM
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: N/A
 Key: N/A
 Residency: N/A
Size: See RESJLEN and RESILEN
Created by: \$RESNAME is normally included as part of another control block, for example \$WAVE.
Pointed to by: N/A
Serialization: None required
Function: The Resource names are built by routines in JES that require a resource name in the parameter list for RACROUTE / \$SEAS when making SAF calls.

The \$RESNAM DSECT maps the SAF Resource names.

The Resource names mapped by this DSECT have the following format:

```

JESSPOOL Resource name is
nodename.userid.jobname.jobid.GROUP.Groupname
WHERE
nodename = The eight character nodename
userid   = The eight character USER ID
jobname  = The eight character JOB NAME
Jobid    = The eight character JOBID
GROUP    = The Constant 'GROUP'
groupname = The eight character output group
  
```

```

ISF DEST caller Resource name is
ISFAUTH.DEST.destname
WHERE
ISFAUTH  = The 7 character constant 'ISFAUTH'
DEST     = The 4 character constant 'DEST'
destname = The destination name (converted by
           $DEST to character format).
  
```

\$RESNAM Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	RESNAM	
0	(0)	SIGNED	4	RESJSPL (0)	JES2 JESSPOOL RESOURCE NAME
0	(0)	CHARACTER	8	RESJNODE	Nodename
8	(8)	CHARACTER	1	RESJSEP1	separator 1
9	(9)	CHARACTER	8	RESJUSER	USER ID
17	(11)	CHARACTER	1	RESJSEP2	separator 2
18	(12)	CHARACTER	8	RESJBNM	JOB NAME
26	(1A)	CHARACTER	1	RESJSEP3	separator 3
27	(1B)	CHARACTER	8	RESJBID	JOB ID
35	(23)	CHARACTER	1	RESJSEP4	separator 4
36	(24)	CHARACTER	8	RESJRPC	Constant GROUP
44	(2C)	CHARACTER	1	RESJSEP5	separator 5
45	(2D)	CHARACTER	8	RESJRPN	Groupname

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
45	(2D)	X'35	'	0	RESJLEN	** -RESJSPL" Length of JESPOOL resource name
Comment						
<p>The following mapping is used for the ISF DEST authority resource name.</p>						
End of Comment						
0	(0)	CHARACTER		63	RESISFNM (0)	ISFAUTH resource name
0	(0)	CHARACTER		8	RESIAUTH	Constant 'ISFAUTH'
8	(8)	CHARACTER		1	RESISEP1	separator 1
9	(9)	CHARACTER		4	RESIDEST	constant 'DEST'
13	(D)	CHARACTER		1	RESISEP2	separator 2
14	(E)	CHARACTER		1	RESIDSTN	Converted destination name
14	(E)	X'20	'	0	RESISUBL	*** Length without padding
32	(20)	CHARACTER		1	RESIPADN	padding
32	(20)	X'3F	'	0	RESILEN	** -RESISFNM" REQUIRED LENGTH OF NAME

\$RESNAM Cross Reference

Name	Hex Offset	Hex Value
RESIAUTH	0	C9E2C6C1
RESIDEST	9	C4C5E2E3
RESIDSTN	E	40404040
RESILEN	20	3F
RESIPADN	20	40404040
RESISEP1	8	4B
RESISEP2	D	4B
RESISFNM	0	
RESISUBL	E	20
RESJGRPC	24	
RESJGRPN	2D	40404040
RESJJBID	1B	D1D6C2F1
RESJJBNM	12	40404040
RESJLEN	2D	35
RESJNODE	0	40404040
RESJSEP1	8	4B
RESJSEP2	11	4B
RESJSEP3	1A	4B
RESJSEP4	23	4B
RESJSEP5	2C	4B
RESJSPL	0	
RESJUSER	9	40404040

\$RESNAM Cross Reference

\$RESWORK Heading Information

Common Name: JES2 Resource Manager PCE Work Area
Macro ID: \$RESWORK
DSECT Name: PCE (\$RESWORK 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 RESPCEWL 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 \$RESMPCE 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 Resource Manager Processor. \$RESWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$RESWORK are actually part of the PCE DSECT, but only map PCEs with the value PCERESID in the second byte of field PCEID.

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

\$RESWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
Comment					
<p>The following fields are used to hold information required to manage the issuance, deletion, and timing for the \$HASP050 messages They are each pointed to by the table in the RESMGR processor. These fields do not have to be in the same order, and grouped, for each resource type. However, that format may prove useful eventually.</p>					
End of Comment					
216	(D8)	X'3 '	0	RESNTHR	"3" Number of 2-byte fields used for threshold comparison
216	(D8)	ADDRESS	4	RESTBERT	HASP050 time offset - BERTs
220	(DC)	SIGNED	2	RESPBERT	HASP050 prct offset - BERTs
222	(DE)	SIGNED	2	RESOBERT (0)	Threshold prct offset BERTs
228	(E4)	ADDRESS	4	RESDBERT	\$HASP050 DOM id for BERTs
232	(E8)	ADDRESS	4	RETCMBS	HASP050 ISSUED TIME AND
236	(EC)	SIGNED	2	RESPCMBS	ISSUED THRESHOLD FOR CMBS
238	(EE)	SIGNED	2	RESOCMBS (0)	ISSUED THRESHOLD VALUES
244	(F4)	ADDRESS	4	RESDCMBS	\$HASP050 DOM id for CMBS
248	(F8)	ADDRESS	4	RESTLBUF	HASP050 ISSUED TIME AND

\$RESWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
252	(FC)	SIGNED	2	RESPLBUF	ISSUED THRESHOLD FOR LBUF
254	(FE)	SIGNED	2	RESOLBUF (0)	ISSUED THRESHOLD VALUES
260	(104)	ADDRESS	4	RESDLBUF	\$HASP050 DOM id for LBUF
264	(108)	ADDRESS	4	RESTBFX	HASP050 ISSUED TIME AND
268	(10C)	SIGNED	2	RESPBFX	ISSUED THRESHOLD FOR CB
270	(10E)	SIGNED	2	RESOBFX (0)	ISSUED THRESHOLD VALUES
276	(114)	ADDRESS	4	RESDBFX	\$HASP050 DOM id for BFX
280	(118)	ADDRESS	4	RESTBSCB	HASP050 ISSUED TIME AND
284	(11C)	SIGNED	2	RESPBSCB	ISSUED THRESHOLD FOR BSC
286	(11E)	SIGNED	2	RESOBSCB (0)	ISSUED THRESHOLD VALUES
292	(124)	ADDRESS	4	RESDBSCB	\$HASP050 DOM id for BSC
296	(128)	ADDRESS	4	RESTVTAM	HASP050 ISSUED TIME AND
300	(12C)	SIGNED	2	RESPVTAM	ISSUED THRESHOLD FOR VTAM
302	(12E)	SIGNED	2	RESOVTAM (0)	ISSUED THRESHOLD VALUES
308	(134)	ADDRESS	4	RESDVTAM	\$HASP050 DOM id for VTAM
312	(138)	ADDRESS	4	RESTSMFB	HASP050 ISSUED TIME AND
316	(13C)	SIGNED	2	RESPSMFB	ISSUED THRESHOLD FOR SMFB
318	(13E)	SIGNED	2	RESOSMFB (0)	ISSUED THRESHOLD VALUES
324	(144)	ADDRESS	4	RESDSMFB	\$HASP050 DOM id for SMFB
328	(148)	ADDRESS	4	RESTJQES	HASP050 ISSUED TIME AND
332	(14C)	SIGNED	2	RESPJQES	ISSUED THRESHOLD FOR JQES
334	(14E)	SIGNED	2	RESOJQES (0)	ISSUED THRESHOLD VALUES
340	(154)	ADDRESS	4	RESDJQES	\$HASP050 DOM id for JQES
344	(158)	ADDRESS	4	RESTJOES	HASP050 ISSUED TIME AND
348	(15C)	SIGNED	2	RESPJOES	ISSUED THRESHOLD FOR JOES
350	(15E)	SIGNED	2	RESOJOES (0)	ISSUED THRESHOLD VALUES
356	(164)	ADDRESS	4	RESDJOES	\$HASP050 DOM id for JOES
360	(168)	ADDRESS	4	RESTJNUM	HASP050 ISSUED TIME AND
364	(16C)	SIGNED	2	RESPJNUM	ISSUED THRESHOLD FOR JNUM
366	(16E)	SIGNED	2	RESOJNUM (0)	ISSUED THRESHOLD VALUES
372	(174)	ADDRESS	4	RESDJNUM	\$HASP050 DOM id for JNUM
376	(178)	ADDRESS	4	RESTTGS	HASP050 ISSUED TIME AND
380	(17C)	SIGNED	2	RESPTGS	ISSUED THRESHOLD FOR TGS
382	(17E)	SIGNED	2	RESOTGS (0)	ISSUED THRESHOLD VALUES
388	(184)	ADDRESS	4	RESDTGS	\$HASP050 DOM id for TGS
392	(188)	ADDRESS	4	RESTTTAB	HASP050 ISSUED TIME AND
396	(18C)	SIGNED	2	RESPTTAB	ISSUED THRESHOLD FOR TTAB
398	(18E)	SIGNED	2	RESOTTAB (0)	ISSUED THRESHOLD VALUES
404	(194)	ADDRESS	4	RESDTTAB	\$HASP050 DOM id for TTAB
408	(198)	ADDRESS	4	RESTCKVR	HASP050 ISSUED TIME AND
412	(19C)	SIGNED	2	RESPCKVR	ISSUED THRESHOLD FOR CKVR
414	(19E)	SIGNED	2	RESOCKVR (0)	ISSUED THRESHOLD VALUES
420	(1A4)	ADDRESS	4	RESDCCKVR	\$HASP050 DOM id for CKVR
424	(1A8)	ADDRESS	4	RESTNHBS	HASP050 ISSUED TIME AND
428	(1AC)	SIGNED	2	RESPNHBS	ISSUED THRESHOLD FOR NHBS
430	(1AE)	SIGNED	2	RESONHBS (0)	ISSUED THRESHOLD VALUES
436	(1B4)	ADDRESS	4	RESDNHBS	\$HASP050 DOM id for NHBS
440	(1B8)	ADDRESS	4	RESTICES	HASP050 ISSUED TIME AND
444	(1BC)	SIGNED	2	RESPICES	ISSUED THRESHOLD FOR ICES
446	(1BE)	SIGNED	2	RESOICES (0)	ISSUED THRESHOLD VALUES
452	(1C4)	ADDRESS	4	RESDICES	\$HASP050 DOM id for ICES
456	(1C8)	ADDRESS	4	RESTCMDS	HASP050 ISSUED TIME AND
460	(1CC)	SIGNED	2	RESPCMDS	ISSUED THRESHOLD FOR CMDS
462	(1CE)	SIGNED	2	RESOCMDS (0)	ISSUED THRESHOLD VALUES
468	(1D4)	ADDRESS	4	RESDCMDS	\$HASP050 DOM id for CMDS

Comment

The following fields are for various other data area required by the RESMGR processor.

End of Comment

472	(1D8)	BITSTRING	1	RESMFLAG	RESOURCE MANAGER WORK FLAG
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Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
472	(1D8)	BITSTRING	0	RESWANTQ	"B'10000000" This processor needs the CKPT to process JESPLEX resources
473	(1D9)	BITSTRING	3		RESERVED FOR FUTURE USE
476	(1DC)	BITSTRING	12	RESTQE	TIMER QUEUE ELEMENT
488	(1E8)	SIGNED	4		RESERVED FOR FUTURE USE

Comment

Temporary FREE/INUSE/TOTAL counts that are computed at the start of RESMGR processing.

End of Comment

492	(1EC)	SIGNED	4	RESTGFRE	Count of free track groups
496	(1F0)	SIGNED	4	RESJOFRE	Count of free JOEs
500	(1F4)	SIGNED	4	RESTTFRE	Count of free TTABs
504	(1F8)	SIGNED	4	RESTTNUM	Total number of TTABs
508	(1FC)	SIGNED	4	RESJNFRE	Count of free job #'s
512	(200)	SIGNED	4	RESJNNUM	Count of assignable job #'s
516	(204)	SIGNED	4	RESBRFRE	Count of free BERTs

Comment

Work fields for \$HASP050 message

End of Comment

520	(208)	DBL WORD	8	RESCTIME	Current time - filled in using \$STCK
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Comment

----- \$BLDMSG MSGID=050,TYPE=WTO,SEPAR=NULL,MF=L

End of Comment

528	(210)	SIGNED	4	RESBM050 (0)	Control block ID
532	(214)	BITSTRING	4		Console ID
536	(218)	ADDRESS	4		Address of the CART
540	(21C)	ADDRESS	4		Pointer for JOBID
544	(220)	ADDRESS	4		Control block address
548	(224)	ADDRESS	4		Display routine address
552	(228)	ADDRESS	4	(6)	6 word work area
576	(240)	BITSTRING	2		ROUT code for Message
578	(242)	BITSTRING	2		Not used
580	(244)	CHARACTER	4		Message ID
584	(248)	BITSTRING	1		Indicate SEPAR=NULL
585	(249)	ADDRESS	1		Flag byte 1
586	(24A)	ADDRESS	1		'DISPER'
587	(24B)	ADDRESS	1		Flag byte 2
588	(24C)	BITSTRING	16		Not used
604	(25C)	ADDRESS	4	(0)	Ensure multiple of 4
604	(25C)	ADDRESS	2	(0)	
604	(25C)	SIGNED	4	RES50WRK (0)	
604	(25C)	CHARACTER	4	RESTYPE	Resource name
608	(260)	SIGNED	2	RESRPT	Total percent required
610	(262)	SIGNED	2	RESRPTA	Percent actually in use
612	(264)	SIGNED	2	RESRPTB	Percent waited for
614	(266)	SIGNED	2	RESUNFRQ	Number of unfulfilled requests for resource
614	(266)	X'62 00006'	0	RESRPTS	"RESRPTA,*-RESRPTA" Percents from last 050
616	(268)	SIGNED	4	RESNUM	NUMBER DEFINED
620	(26C)	SIGNED	4	RESNUMRQ	NUMBER REQUIRED
624	(270)	SIGNED	4	RESNUMA	Number actually in use
628	(274)	SIGNED	4	RESNUMB	Number waited for
632	(278)	SIGNED	4	RESNUMC	Largest unfulfilled request for resource
636	(27C)	BITSTRING	1	RESDISPR	DISPER for \$HASP050 message
636	(27C)	BITSTRING	0	RESSHORT	"X'80" DISPER for short form
636	(27C)	BITSTRING	0	RESLONG	"X'40" DISPER for long form

\$RESWORK Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
636	(27C)	X'21	0	RES50LEN	**_RES50WRK"
636	(27C)	X'A5	0	RESPCEWL	**_PCEWORK" LENGTH OF RESOURCE PCE WORK AREA

\$RESWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
RESBM050	210	C2D3C440	RESPJQES	14C	
RESBRFRE	204		RESPLBUF	FC	
RESCTIME	208		RESPNHBS	1AC	
RESDBERT	E4		RESRPT	260	
RESDBFX	114		RESRPTA	262	
RESDBSCB	124		RESRPTB	264	
RESDCKVR	1A4		RESRPTS	266	62 00006
RESDCMBS	F4		RESMSMFB	13C	
RESDCMDS	1D4		RESPTGS	17C	
RESDICES	1C4		RESPTTAB	18C	
RESDISPR	27C		RESPVTAM	12C	
RESDJNUM	174		RESSHORT	27C	80
RESJJOES	164		RESTBERT	D8	
RESJQES	154		RESTBFX	108	
RESDLBUF	104		RESTBSCB	118	
RESDNHBS	1B4		RESTCKVR	198	
RESDSMFB	144		RETCMBS	E8	
RESDTGS	184		RETCMDS	1C8	
RESDTTAB	194		RESTGFRE	1EC	
RESDVTAM	134		RESTICES	1B8	
RESJNFRE	1FC		RESTJNUM	168	
RESJNNUM	200		RESTJOES	158	
RESJOFRE	1F0		RESTJQES	148	
RESLONG	27C	40	RESTLBUF	F8	
RESMFLAG	1D8		RESTNHBS	1A8	
RESNTHR	D8	3	RESTQE	1DC	
RESNUM	268		RESTSMFB	138	
RESNUMA	270		RESTTFRE	1F4	
RESNUMB	274		RESTTGS	178	
RESNUMC	278		RESTTNUM	1F8	
RESNUMRQ	26C		RESTTTAB	188	
RESOBERT	DE		RESTVTAM	128	
RESOBFX	10E		RESTYPE	25C	
RESOBSCB	11E		RESUNFRQ	266	
RESOCKVR	19E		RESWANTQ	1D8	80
RESOCMBS	EE		RES50LEN	27C	21
RESOCMDS	1CE		RES50WRK	25C	
RESOICES	1BE				
RESOJNUM	16E				
RESOJOES	15E				
RESOJQES	14E				
RESOLBUF	FE				
RESONHBS	1AE				
RESOSMFB	13E				
RESOTGS	17E				
RESOTTAB	18E				
RESOVTAM	12E				
RESPBERT	DC				
RESPBFX	10C				
RESPBSCB	11C				
RESPCEWL	27C	A5			
RESPCKVR	19C				
RESPCMBS	EC				
RESPCMDS	1CC				
RESPICES	1BC				
RESPJNUM	16C				
RESPJOES	15C				

\$RJCB Heading Information

Common Name: Reader JOB card Buffer
Macro ID: \$RJCB
DSECT Name: RJCB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'RJCB'
 Offset: RJCBID-RJCB
 Length: 4
Storage Attributes: Subpool: 1
 Key: 1
 Residency: Virtual and real storage can be anywhere in private storage of the JES2 address space.
Size: See RJCBLONG
Created by: HASPRDR Input Reader Processor (via \$GETWORK)
Pointed to by: RDWRJCB field of the \$RDRWORK data area (for first RJCB)
 RDWRJCBS field of the \$RDRWORK data area (for current RJCB)
 RJCBRJCB field of the \$RJCB data area (for next RJCB)
Serialization: None required
Function: This macro provides the mapping for the buffer that is used to contain a copy of the JOB card and all of its continuation cards in the input stream for a given job.

\$RJCB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	RJCB	Reader JOB Card buffer
0	(0)	CHARACTER	4	RJCBID	Control Block identifier
4	(4)	ADDRESS	4	RJCBRJCB	Pointer to next RJCB
8	(8)	ADDRESS	4	RJCBLAST	Address of last record
12	(C)	ADDRESS	4	RJCBNEXT	Address of next record
16	(10)	CHARACTER	80	RJCBCARD (5)	JOB card records
416	(1A0)	DBL WORD	8	RJCBEND (0)	End of RJCB
416	(1A0)	X'A0	0	RJCBLENG	"RJCBEND-RJCB" Length of RJCB in bytes
416	(1A0)	X'68	0	RJCBWORD	"RJCBLENG/4" Length of RJCB in words

\$RJCB Map

\$ROTT Heading Information

Common Name: ROTT
Macro ID: \$ROTT
DSECT Name: ROTT, ROTE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: ROTT
 Offset: ROTID
 Length: L'ROTID

Storage Attributes: Subpool: 0
 Key: 1
 Residency: Virtual and real anywhere

Size: This DSECT defines a number of tables. Each table has a fixed size header (length is ROTSIZE) and then the actual trace data. The size of each entry is dependant on the data area being traced. The following table list the sizes.

Table	Anchor	SIZE
JQEs	\$ROTJQE	ROTSIZE + \$ROTTQNUM * ROTJSIZE
JOEs	\$ROTJOE	ROTSIZE + \$ROTTONUM * ROTJSIZE
Dispatcher	\$ROTTDISP	ROTSIZE + \$ROTTDNUM * ROTDSIZE
HASPIRDA		

Created by: HASPIRDA
Pointed to by: \$ROTJQE field of the HCT (for the JQE table)
 \$ROTJOE field of the HCT (for the JOE table)
 \$ROTTDISP field of the HCT (for the \$WAIT table)

Serialization: None - table is updated only by the main JES2 TCB.
Function: This DSECT maps the CTRACE rolling trace entries used by JES2. The following CTRACE SUBs exist in JES2:
 JQE - JQE services (\$Qxxxx services and \$DOGBERT)
 JOE - JOE services (\$#xxxx services)
 DISP - \$WAIT, PCE dispatch and MVS WAIT services
 The intent of these traces is to provide a history of what happened in JES2 to the various control blocks to aid in debugging JES2 problems.

\$ROTT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ROTT	,
Comment					
Table control					
End of Comment					
0	(0)	CHARACTER	4	ROTID	Eye catcher
4	(4)	SIGNED	1	ROTTVER	Version
4	(4)	X'1'	0	ROTTCVER	"1" Current version
5	(5)	BITSTRING	1	ROTTFLAG1	Flags
6	(6)	SIGNED	2	ROTTLEN	Length of an element
8	(8)	ADDRESS	4	ROTTFIRST	Addr of first element
12	(C)	ADDRESS	4	ROTTLAST	Addr of last element
16	(10)	ADDRESS	4	ROTTCURR	Addr of current element

\$ROTT Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
24	(18)	DBL WORD	8	ROTELEM (0)	Element definition begins here
24	(18)	X'18	0	ROTSIZE	"*-ROTT" Length of header portion

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ROTE	, Map trace element

Comment

Information common to all trace entries
 Goal: Make this information identical to the
 CTRACE element header

End of Comment

0	(0)	SIGNED	2	ROTELENP	Length of trace element
2	(2)	SIGNED	2	ROTEOFF	Data offset
4	(4)	SIGNED	4	ROTEFMTI	Format ID key
8	(8)	BITSTRING	8	ROTE TIME	TOD clock value
16	(10)	BITSTRING	1	ROTE DATA (0)	Variable data goes here

Comment

JES2 component information common to all elements

End of Comment

16	(10)	ADDRESS	4	ROTEPCE	PCE address
20	(14)	BITSTRING	1	ROTEFLG1	Flags
20	(14)	BITSTRING	0	ROTE1ART	"B'10000000" Artificial JQE
21	(15)	BITSTRING	1	ROTEEXIT	Current exit number
22	(16)	BITSTRING	2		Reserved for future use
24	(18)	SIGNED	4	ROTEJNUM	Job number
28	(1C)	ADDRESS	4	ROTEOFFS	Offset of JQE/JOE

Comment

Service IDs represent the service (e.g.\$QMOD,
 \$#REM) which caused the trace entry to be built.

End of Comment

32	(20)	BITSTRING	1	ROTESERV	Service id
		....		ROTQSRV	"X'00" First JQE service id
		....		ROTQADD	"X'00" \$QADD
32	(20)	BITSTRING	0	ROTQPUT	"X'01" \$QPUT
32	(20)	BITSTRING	0	ROTQREM	"X'02" \$QREM
32	(20)	BITSTRING	0	ROTQMOD	"X'03" \$QMOD
32	(20)	BITSTRING	0	ROTQJIX	"X'04" \$QJIX (alloc new number)
32	(20)	BITSTRING	0	ROTQJXS	"X'05" \$QJIX (swap job numbers)
32	(20)	BITSTRING	0	ROTGETJL	"X'06" \$GETJLOK
32	(20)	BITSTRING	0	ROTFREJL	"X'07" \$FREJLOK
32	(20)	BITSTRING	0	ROTQRBDC	"X'08" \$QRBDCHK (add to queue)
32	(20)	BITSTRING	0	ROTQBUSY	"X'09" \$QBUSY
32	(20)	BITSTRING	0	ROTGETLO	"X'0A" \$GETLOKW
32	(20)	BITSTRING	0	ROTFRELO	"X'0B" \$FRELOKW
32	(20)	BITSTRING	0	ROTDGJQ	"X'0C" \$DOGJQE
32	(20)	BITSTRING	0	ROT#SRV	"X'10" First JOE service id
32	(20)	BITSTRING	0	ROT#ADD	"X'10" \$#ADD

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
32	(20)	BITSTRING	0	ROT#PUT	"X'11" \$#PUT
32	(20)	BITSTRING	0	ROT#REM	"X'12" \$#REM
32	(20)	BITSTRING	0	ROT#MOD	"X'13" \$#MOD
32	(20)	BITSTRING	0	ROT#RBDC	"X'14" \$#RBDCHK (add to queue)
32	(20)	BITSTRING	0	ROT#BUSY	"X'19" \$#BUSY
32	(20)	BITSTRING	0	ROT#GET	"X'1A" \$#GET
32	(20)	BITSTRING	0	ROT#CAN	"X'1B" \$#CAN
32	(20)	BITSTRING	0	ROT#REP	"X'1C" \$#REP
32	(20)	BITSTRING	0	ROTDSRV	"X'20" First \$WAIT service id
32	(20)	BITSTRING	0	ROTWAIT	"X'20" \$WAIT
32	(20)	BITSTRING	0	ROTDISP	"X'21" Dispatch
32	(20)	BITSTRING	0	ROTMVSWA	"X'22" MVS WAIT
33	(21)	BITSTRING	3		Reserved for future use

Comment

 JES2 component information common to JOE and JQEs

End of Comment

36	(24)	SIGNED	4	ROTESPEC (0)	Start of 'specific' data
36	(24)	BITSTRING	1	ROTEOQUE	Original queue (or class)
37	(25)	BITSTRING	1	ROTENQUE	New queue (or class)
38	(26)	BITSTRING	1	ROTEBUSY	Busy byte
39	(27)	BITSTRING	1	ROTQLOCK	Lock (JQE only)
39	(27)	X'27 00001'	0	ROT#TYPE	"ROTQLOCK,1,C'X'" Type (JOE only)
48	(30)	DBL WORD	8	ROTEND (0)	Ensure entry ends on double word boundary
46	(2E)	SIGNED	2	ROTELENE	Length of element
46	(2E)	X'30	0	ROTEJSIZ	"*-ROTE" Size of one entry

Comment

Field for a dispatcher trace entry
 Note ROTEEVNT is incremented by one to simplify
 IPCS code.

End of Comment

36	(24)	BITSTRING	1	ROTEEVNT	Event byte
37	(25)	BITSTRING	1	ROTRESO	Resource byte
38	(26)	BITSTRING	1	ROTEWFG1	\$WAIT parm \$WTFLAG1
39	(27)	BITSTRING	1		Reserved
40	(28)	CHARACTER	8	ROTECSCT	CSECT
48	(30)	CHARACTER	8	ROTESEQ	Sequence
56	(38)	BITSTRING	8	ROTEWTME	\$WAIT time or Run time (In microseconds)
64	(40)	BITSTRING	8	ROTEWCPU	CPU Used (\$WAIT Entry) (In microseconds)
64	(40)	BITSTRING	2	ROTEPSTR	\$POST reason (\$DISP entry) See PPBLPOST
88	(58)	DBL WORD	8	ROTEND2 (0)	Ensure entry ends on double word boundary
86	(56)	SIGNED	2	ROTELEN	Length of element
86	(56)	X'58	0	ROTEDSIZ	"*-ROTE" Size of one entry

\$ROTT Cross Reference

\$ROTT Cross Reference

Name	Hex Offset	Hex Value		Name	Hex Offset	Hex Value
ROT#ADD	20	10		ROTQPUT	20	1
ROT#BUSY	20	19		ROTQRBDC	20	8
ROT#CAN	20	1B		ROTQREM	20	2
ROT#GET	20	1A		ROTQSRV	20	
ROT#MOD	20	13		ROTSIZE	18	18
ROT#PUT	20	11		ROTVER	4	
ROT#RBDC	20	14		ROTWAIT	20	20
ROT#REM	20	12				
ROT#REP	20	1C				
ROT#SRV	20	10				
ROT#TYPE	27	27	00001			
ROTCURR	10					
ROTCVER	4	1				
ROTDISP	20	21				
ROTDGJQ	20	C				
ROTDSPV	20	20				
ROTEBUSY	26					
ROTECSCT	28					
ROTEDATA	10					
ROTELEN	56					
ROTEDSIZ	56	58				
ROTEEVNT	24					
ROTEEXIT	15					
ROTEFLG1	14					
ROTEFMTI	4					
ROTEJNUM	18					
ROTEJSIZ	2E	30				
ROTELEM	18					
ROTELEN	6					
ROTELENE	2E					
ROTELENP	0					
ROTEND	30					
ROTEND2	58					
ROTENQUE	25					
ROTEOFF	2					
ROTEOFFS	1C					
ROTEOQUE	24					
ROTEPCE	10					
ROTEPSTR	40					
ROTERESO	25					
ROTESEQ	30					
ROTESERV	20					
ROTESPEC	24					
ROTETIME	8					
ROTEWCPU	40					
ROTEWFG1	26					
ROTEWTME	38					
ROTE1ART	14	80				
ROTFIRST	8					
ROTFLAG1	5					
ROTFREJL	20	7				
ROTFRELO	20	B				
ROTGETJL	20	6				
ROTGETLO	20	A				
ROTID	0					
ROTLAST	C					
ROTMVSWA	20	22				
ROTQADD	20					
ROTBUSY	20	9				
ROTQJIX	20	4				
ROTQJIXS	20	5				
ROTQLOCK	27					
ROTQMOD	20	3				

\$SAFINFO Programming Interface information

Programming Interface information

\$SAFINFO

End of Programming Interface information

\$SAFINFO Heading Information

Common Name: HASP Security Information Block
Macro ID: \$SAFINFO
DSECT Name: SAFINFO
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'SFI '
 Offset: SFIEYE-SAFINFO
 Length: 4

Storage Attributes: Subpool: N/A
 Key: 1
 Residency: Virtual and real storage are anywhere (above or below 16M) in the private storage of the JES2 address space.

Size: See SFILEN
Created by: JOBVALM caller and SYSOVFY caller

Pointed to by: Register one upon entry to the called routine
Serialization: None

Function: This is the parameter list to both the JOBVALM and SYSOVFY routines. Values in this DSECT will be used to construct the RACROUTE VERIFYX, AUTH, and TOKENBLD parameter lists.

\$SAFINFO Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SAFINFO	Security Information Parameter List
0	(0)	CHARACTER	4	SFIEYE	Control block ID
4	(4)	ADDRESS	1	SFILELEVEL	Control block version
4	(4)	X'1 '	0	SFIVRSN	"1" Control block version equate
5	(5)	BITSTRING	1	SFIFLAG1	SAFINFO Flag Byte 1
5	(5)	BITSTRING	0	SF11PASE	"B'10000000" NJHGPASS is encrypted
5	(5)	BITSTRING	0	SF11NPSE	"B'01000000" NJHGNPAS is encrypted
5	(5)	BITSTRING	0	SFIRESV1	"B'00100000" Reserved for IBM dvlmt use
5	(5)	BITSTRING	0	SF11XMIT	"B'00010000" XMIT request
5	(5)	BITSTRING	0	SF11XBM	"B'00001000" This is an XBM joblet
5	(5)	BITSTRING	0	SF11NORM	"B'00000100" Get a token for the job
5	(5)	BITSTRING	0	SF11SREQ	"B'00000010" Get a submitter for the job
5	(5)	BITSTRING	0	SF11DFLT	"B'00000001" Get an undefined user token
6	(6)	BITSTRING	1	SFIFLAG2	SAFINFO Flag Byte 2
6	(6)	BITSTRING	0	SFI2STKN	"B'10000000" Submitter token in SFITOKEN or returned in JCTOKEN
6	(6)	BITSTRING	0	SFI2VTKN	"B'01000000" SFITOKEN is a pre-verified token (used by SYSOVFY only)
6	(6)	BITSTRING	0	SFI2VXPS	"B'00100000" JOB/OUTPUT passed VERIFYX. Used as input if SFI2VTKN set. Set on output if VX return code is 0 or 4 (used by SYSOVFY only)
7	(7)	BITSTRING	1	SFIFLAG3	SAFINFO FLAG BYTE 3
7	(7)	X'3 '	0	SFI3JOB	"JQE3JOB" BATCH JOB (WHEN BITS ZERO)
7	(7)	X'1 '	0	SFI3STC	"JQE3STC" FLAG FOR STC TYPE JOB
7	(7)	X'2 '	0	SFI3TSU	"JQE3TSU" FLAG FOR TSU TYPE JOB
8	(8)	SIGNED	2	SFIRESCD	Error reason code for RC=4 or 8 only (else 0)
12	(C)	ADDRESS	4	SFIJCT	Address of Job Control Table
16	(10)	ADDRESS	4	SFIPCE	Address of Processor Control Element
20	(14)	ADDRESS	4	SFITWA	Address Token Work Area for TOKENBLD
24	(18)	ADDRESS	4	SFILOT	Address of job's primary alloc IOT
28	(1C)	ADDRESS	4	SFITOKEN	Address of input token
32	(20)	ADDRESS	4	SFIHTOKN	Address of header token
36	(24)	SIGNED	2	SFIHTLEN	Length of header token

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
38	(26)	BITSTRING	1	SFIHTFLG	Header token flags
38	(26)	BITSTRING	0	SFIHTJOB	"B'10000000" Header token is job token
39	(27)	BITSTRING	1		Reserved for future use

Comment

The following fields are available/used by SYSOVFY only.

End of Comment

40	(28)	ADDRESS	4	SFIPDDB	Address of Pddb for verify
44	(2C)	CHARACTER	8	SFIDSNM	DSNAME or jobname from DSH

Comment

SFICONTG maps a contiguous storage area. Caution should be exercised when placing fields within this area.

End of Comment

44	(2C)	X'48	'	0	SFICONTL	"SFICEND-SFICBEGN" Length of total contiguous area
44	(2C)	X'8	'	0	SFIELEML	"8" Length of individual element
44	(2C)	X'34	'	0	SFICBEGN	*** Beginning of contiguous area
52	(34)	ADDRESS		1	SFIUIDL	USERID length + value
52	(34)	X'35 00008'		0	SFIUID	"SFIUIDL+1,SFIELEML,C'C" USERID for this job
61	(3D)	ADDRESS		1	SFIGRPL	GROUP length + value
61	(3D)	X'3E 00008'		0	SFIGRP	"SFIGRPL+1,SFIELEML,C'C" GROUP for this job
70	(46)	ADDRESS		1	SFIPASL	PASSWORD length + value
70	(46)	X'47 00008'		0	SFIPAS	"SFIPASL+1,SFIELEML,C'C" PASSWORD for this job
79	(4F)	ADDRESS		1	SFINPASL	New PASSWORD len + value
79	(4F)	X'50 00008'		0	SFINPAS	"SFINPASL+1,SFIELEML,C'C" New PASSWORD for this job
88	(58)	ADDRESS		1	SFIXNDEL	Execution node len + val
88	(58)	X'59 00008'		0	SFIXNDE	"SFIXNDEL+1,SFIELEML,C'C" Execution node for this job
97	(61)	ADDRESS		1	SFISNDEL	Submittor node len + val
97	(61)	X'62 00008'		0	SFISNDE	"SFISNDEL+1,SFIELEML,C'C" Submittor node for this job
106	(6A)	ADDRESS		1	SFISUIDL	Submittor USERID len+val
106	(6A)	X'6B 00008'		0	SFISUID	"SFISUIDL+1,SFIELEML,C'C" Submittor USERID for this job
115	(73)	ADDRESS		1	SFISGRPL	Submittor GROUP len+val
115	(73)	X'74 00008'		0	SFISGRP	"SFISGRPL+1,SFIELEML,C'C" Submittor GROUP for this job
115	(73)	X'7C	'	0	SFICEND	*** End of contiguous area
124	(7C)	CHARACTER		8	SFISECL	Security label (blanks if none)
132	(84)	ADDRESS		4		RESERVED FOR FUTURE IBM USE
136	(88)	DBL WORD		8	(0)	End of SAFINFO
136	(88)	X'88	'	0	SFILEN	** -SAFINFO" Length of SAFINFO

§SAFINFO Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SFICBEGN	2C	34	SFIJCT	C	
SFICEND	73	7C	SFILEN	88	88
SFICONTL	2C	48	SFILEVEL	4	
SFIDSNM	2C		SFINPAS	4F	50 00008
SFIELEML	2C	8	SFINPASL	4F	
SFIEYE	0	E2C6C940	SFIPAS	46	47 00008
SFIFLAG1	5		SFIPASL	46	
SFIFLAG2	6		SFIPCE	10	
SFIFLAG3	7		SFIPDDB	28	
SFIGRP	3D	3E 00008	SFIRESCD	8	
SFIGRPL	3D		SFIRESV1	5	20
SFIHTFLG	26		SFISECL	7C	40404040
SFIHTJOB	26	80	SFISGRP	73	74 00008
SFIHTLEN	24		SFISGRPL	73	
SFIHTOKN	20		SFISNDE	61	62 00008
SFIHOT	18		SFISNDEL	61	

\$SAFINFO Cross Reference

Name	Hex Offset	Hex Value	
SFISUID	6A	6B	00008
SFISUIDL	6A		
SFITOKEN	1C		
SFITWA	14		
SFIUID	34	35	00008
SFIUIDL	34		
SFIVRSN	4	1	
SFIXNDE	58	59	00008
SFIXNDEL	58		
SFI1DFLT	5	1	
SFI1NORM	5	4	
SFI1NPSE	5	40	
SFI1PASE	5	80	
SFI1SREQ	5	2	
SFI1XBM	5	8	
SFI1XMIT	5	10	
SFI2STKN	6	80	
SFI2VTKN	6	40	
SFI2VXPS	6	20	
SFI3JOB	7	3	
SFI3STC	7	1	
SFI3TSU	7	2	

\$\$SAPID Heading Information

Common Name: Sysout API data area
Macro ID: \$\$SAPID
DSECT Name: SAPID
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: \$\$SAP
 Offset: SAPEYE-SAPID
 Length: L'SAPEYE
Storage Attributes: Subpool: n/a
 Key: 1
 Residency: In the jesxSAPI data space in cpool SAPID
Size: See SAPLEN
Created by: HASCSAPI
Pointed to by: SSS2JEST field of the IAZSS2 SSOB extension
Serialization: Compare and Swap
Function: The SAPID contains the specifications of the SAPI user for the work desired. It also contains status information of the SAPI "thread".

\$\$SAPID Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SAPID	, SYSOUT API Data Area
0	(0)	CHARACTER	4	SAPEYE	Eye catcher
4	(4)	BITSTRING	1	SAPFLAG1	Flags (serialized via compare and swap)
4	(4)	BITSTRING	0	SAP1RQUE	"B'10000000" This SAPID managed by RQUE
4	(4)	BITSTRING	0	SAP1GAVE	"B'01000000" The last time control was returned to this caller, work was given
4	(4)	BITSTRING	0	SAP1WSPV	"B'00100000" The SAPWSP has a WSP which has been constructed by \$WSSCAN
4	(4)	BITSTRING	0	SAP1TERM	"B'00010000" Terminate this SAPID
4	(4)	BITSTRING	0	SAP1HOT	"B'00001000" RQUE Post because of hot start
4	(4)	BITSTRING	0	SAP1PCE	"B'00000100" Being processed by SPI PCE
5	(5)	BITSTRING	1	SAPFLAGJ	Flags representing JOE state
5	(5)	BITSTRING	0	SAPJCOMP	"B'10000000" JOE has been completely processed
5	(5)	BITSTRING	0	SAPJSAF	"B'01000000" JOE access rejected by SAF
5	(5)	BITSTRING	0	SAPJALLO	"B'00100000" JOE is allocated (to us)
5	(5)	BITSTRING	0	SAPJFINI	"B'00010000" JOE is no longer suitable
5	(5)	BITSTRING	0	SAPJCTRL	"B'00001000" Do not give new JOE
5	(5)	BITSTRING	0	SAPJSYSH	"B'00000100" Put JOE in system hold
5	(5)	BITSTRING	0	SAPJASH	"B'00000010" Put JOE in address space hold (do not give to this AS again)
5	(5)	BITSTRING	0	SAPJBUST	"B'00000001" At least one PDDB has been busted out of this JOE
6	(6)	BITSTRING	1	SAPFLGJ2	More flags for JOE state
6	(6)	BITSTRING	0	SAPJ2TH	"B'10000000" Thread hold this data set
7	(7)	SIGNED	1	SAPMSTRV	Level of checkpoint in use when SAIFETCH populated (\$MSTRVER is saved here)
8	(8)	BITSTRING	4		Reserved for future use

Comment

SAPSSS2 is an exact duplicate of the caller's SSOB extension. To gain addressability, specify: USING SSS2,SAPSSS2

End of Comment

\$SAPID Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
12	(C)	ADDRESS	4	SAPNEXT	SAP.Addr of next SAPID in data space SERIALIZATION: Compare and Swap
16	(10)	BITSTRING	1	SAPSSS2	Shadow of caller's SSOB extension
16	(10)	X'38 00004'	0	SAPECBP	"SAPSSS2+SSS2ECBP-SSS2,L'SSS2ECBP,C'A"
1080	(438)	BITSTRING	4	SAPROUTE	<----+ Selection route code in form nnrr
1084	(43C)	CHARACTER	8	SAPUSER	<----+ and userid
1092	(444)	SIGNED	4	SAPJNOLO	Low job number for selection
1096	(448)	SIGNED	4	SAPJNOHI	High job number for selection
1100	(44C)	BITSTRING	4	SAPROUTN	New route code for group requests
1104	(450)	CHARACTER	8	SAPUSERN	New userid for group requests
1112	(458)	SIGNED	4	SAPRETN	SSOBRETN equivalent
1116	(45C)	BITSTRING	8	SAPPRIV	Copied to the SSS2
1124	(464)	ADDRESS	4	SAPASCB	COM.ASCB address of SAPI address space
1128	(468)	BITSTRING	8	SAPASCBT	Address space token
1128	(468)	X'68 00008'	0	SAPWRASI	"SAPASCBT,L'SAPASCBT" Address space level JWEL
1136	(470)	ADDRESS	4	SAPTCB	UAS.TCB address of last SAPID user
1140	(474)	ADDRESS	4	SAPOTCB	UAS.Owning TCB address (TCB which created the SAPID)
1144	(478)	ADDRESS	4	SAPIOT	UAS.Address of current IOT
1148	(47C)	ADDRESS	4	SAPJCT	UAS.Address of current JCT
1152	(480)	ADDRESS	4	SAPCHK	UAS.Address of current CHK
1156	(484)	ADDRESS	4	SAPWAVE	UAS.Address of WAVE
1160	(488)	ADDRESS	4	SAPBTOK	UAS.Address of SPOOL browse token
1164	(48C)	ADDRESS	4	SAPACCT	UAS.Addr of accounting information
1168	(490)	ADDRESS	4	SAPDTKN	UAS.Addr of Data set token
1172	(494)	ADDRESS	4	SAPNJH	UAS.Addr of NJE job header
1176	(498)	ADDRESS	4	SAPNDH	UAS.Addr of NJE data set header
1180	(49C)	ADDRESS	4	SAPSWB	UAS.Addr of SWBTU buffer
1184	(4A0)	ADDRESS	4	SAPTJEV	TJE.Addr of JOE exclusion vector for this thread
1188	(4A4)	BITSTRING	8	SAPSWBTK	SJF token for non-SWA SWBs
1196	(4AC)	BITSTRING	4	SAPANCHR	MTTR of first regular IOT
1200	(4B0)	BITSTRING	4	SAPIOTW	MTTR of IOT waiting in the "wings"
1204	(4B4)	BITSTRING	4	SAPIOTC	MTTR of current IOT
1208	(4B8)	BITSTRING	4	SAPIOTF	MTTR of first IOT for JOE
1212	(4BC)	BITSTRING	4	SAPIOTP	MTTR of IOT of prior PDDB
1216	(4C0)	SIGNED	2	SAPPDDBW	Offset of PDDB waiting in the "wings" (See routine CSPNPDDB in HASCSAPI)
1218	(4C2)	SIGNED	2	SAPPDDBO	Offset of current PDDB
1220	(4C4)	SIGNED	2	SAPPDDBF	Offset of first PDDB
1222	(4C6)	SIGNED	2	SAPPDDBP	Offset of prior PDDB
1224	(4C8)	ADDRESS	4	SAPSJB	COM.Address of SJB
1228	(4CC)	ADDRESS	4	SAPSDB	COM.Address of SDB
1232	(4D0)	ADDRESS	4	SAPMTRB	COM.Address of MTRB representing this request
1236	(4D4)	SIGNED	4	SAPWKOFF	Offset of work JOE into JOT
1240	(4D8)	SIGNED	4	SAPWJTOF	Offset of work JOE matching the SYSOUT token
1244	(4DC)	SIGNED	4	(5)	Reserved for future use
1264	(4F0)	BITSTRING	104	SAPWKJOE	Copy of work JOE (never modified)
1368	(558)	BITSTRING	1	SAPCHJOE	Copy of char JOE (never modified)

Comment

 SAPJQEAR will always look like an R12 mode JQE
 regardless of the JES2 checkpoint mode.

End of Comment

1444	(5A4)	BITSTRING	1	SAPJQEAR	Copy of JQE (no SPOOLs mask)
1444	(5A4)	X'B4 00004'	0	SAPJBKEY	"SAPJQEAR+JQEJBKEY-JQE,L'JQEJBKEY" Job key
1540	(604)	BITSTRING	104	SAPWWJOE	Working WORK JOE updated at PUT-GET TIME in the user ADDRESS SPACE
1644	(66C)	BITSTRING	76	SAPWCJOE	Working CHAR JOE updated at PUT- GET time in the user address space
1720	(6B8)	BITSTRING	104	SAP2WJOE	2nd Working WORK JOE updated at unallocation TIME IN the user address space

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1824	(720)	BITSTRING	76	SAP2CJOE	2nd Working CHAR JOE updated at unallocation time in the user address space
1900	(76C)	BITSTRING	384	SAPPDDB	Copy of currently allocated PDDB
2284	(8EC)	BITSTRING	384	SAPPDDB2	Copy of PDDB after the current PDDB (if any)
2668	(A6C)	BITSTRING	80	SAPCTKN	Copy of client or JOE token
2748	(ABC)	BITSTRING	456	SAPWSP	Copy of WSP used for \$#GET
3204	(C84)	BITSTRING	204	SAPWS	EBCDIC WS list
3408	(D50)	DBL WORD	8	(0)	
3408	(D50)	SIGNED	2	SAP#SKIP	Number of PDDBs skipped for SAF reasons
3410	(D52)	SIGNED	2	SAP#PDDB	Number of PDDBs processed within the current JOE. Meaningless IF SAPJCOMP is on.
3412	(D54)	SIGNED	2	SAPCLFT	Number of copies left for the last PDDB in this grp
3414	(D56)	SIGNED	2	SAPONODE	Origin node for selection
3416	(D58)	SIGNED	4	SAPRBA	RBA for last PDDB in group (SAP2CHKP must be set)
3420	(D5C)	ADDRESS	1	SAPTYPE	Application call type
3421	(D5D)	CHARACTER	8	SAPAPPL	Application thread name
3429	(D65)	BITSTRING	3		Reserved for future use
3432	(D68)	SIGNED	4	SAPWRNUM	Unique number identifying this SAPID. Used in JWEL tables. High order bit always on to differentiate from DCT addresses
3436	(D6C)	BITSTRING	1	SAPFLAG2	Miscellaneous flags
3436	(D6C)	BITSTRING	0	SAP2UNAV	"B'10000000" Data set not available
3436	(D6C)	BITSTRING	0	SAP2COPY	"B'01000000" User's SSS2 copied to SAPID
3436	(D6C)	BITSTRING	0	SAP2NPRO	"B'00100000" PDDB at offset SAPPDDBO not yet given to caller but been SAF verified ==> SAPPDDB2 validated
3436	(D6C)	BITSTRING	0	SAP2END	"B'00010000" No more PDDBs this JOE
3436	(D6C)	BITSTRING	0	SAP2NEW	"B'00001000" The JOE associated with this SAPID has changed (either there is a new JOE or there is no JOE)
3436	(D6C)	BITSTRING	0	SAP2NEWS	"B'00000100" This is NEWS PDDB
3436	(D6C)	BITSTRING	0	SAP2CHKP	"B'00000010" SAPRBA is valid
3436	(D6C)	BITSTRING	0	SAP2NCKU	"B'00000001" Do not update CHK
3437	(D6D)	CHARACTER	1	SAPMCLAS	Message class of job
3438	(D6E)	BITSTRING	1	SAPFLAG3	More miscellaneous flags information
3438	(D6E)	BITSTRING	0	SAP3VTOK	"B'10000000" Data set obtained via token
3439	(D6F)	SIGNED	1	SAPREAS	Reason code for SSS2EODS
3440	(D70)	DBL WORD	8	SAPSTCK	STCK when application last made an SSI call
3448	(D78)	DBL WORD	8	(0)	Double word aligned
3448	(D78)	X'78	0	SAPLEN	**-"SAPID" Length of SAPID dsect

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TJEV	,
0	(0)	CHARACTER	4	TJEEYE	Eye catcher
4	(4)	ADDRESS	4	TJESAP	SAP.Address of corresponding SAPID
8	(8)	BITSTRING	62504	TJEJOES	Exclusion indicators
62512	(F430)	DBL WORD	8	(0)	Double word aligned
62512	(F430)	X'30	0	TJELEN	**-"TJEV" Length of TJEV

\$SAPID Cross Reference

\$SAPID Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SAP#PDDDB	D52		SAPSTCK	D70	
SAP#SKIP	D50		SAPSWB	49C	
SAPACCT	48C		SAPSWBTK	4A4	
SAPANCHR	4AC		SAPTCB	470	
SAPAPPL	D5D		SAPTJEV	4A0	
SAPASCB	464		SAPTYPE	D5C	
SAPASCBT	468		SAPUSER	43C	
SAPBTOK	488		SAPUSERN	450	
SAPCHJOE	558		SAPWAVE	484	
SAPCHK	480		SAPWCJOE	66C	
SAPCLFT	D54		SAPWJTOF	4D8	
SAPCTKN	A6C		SAPWKJOE	4F0	
SAPDTKN	490		SAPWKOFF	4D4	
SAPECBP	10	38 00004	SAPWRASI	468	68 00008
SAPEYE	0	5BE2C1D7	SAPWRNUM	D68	
SAPFLAGJ	5		SAPWS	C84	
SAPFLAG1	4		SAPWSP	ABC	
SAPFLAG2	D6C		SAPWWJOE	604	
SAPFLAG3	D6E		SAP1GAVE	4	40
SAPFLGJ2	6		SAP1HOT	4	8
SAPIOT	478		SAP1PCE	4	4
SAPIOTC	4B4		SAP1RQUE	4	80
SAPIOTF	4B8		SAP1TERM	4	10
SAPIOTP	4BC		SAP1WSPV	4	20
SAPIOTW	4B0		SAP2CHKP	D6C	2
SAPJALLO	5	20	SAP2CJOE	720	
SAPJASH	5	2	SAP2COPY	D6C	40
SAPJBKEY	5A4	B4 00004	SAP2END	D6C	10
SAPJBUST	5	1	SAP2NCKU	D6C	1
SAPJCOMP	5	80	SAP2NEW	D6C	8
SAPJCT	47C		SAP2NEWS	D6C	4
SAPJCTRL	5	8	SAP2NPRO	D6C	20
SAPJFINI	5	10	SAP2UNAV	D6C	80
SAPJNOHI	448		SAP2WJOE	6B8	
SAPJNOLO	444		SAP3VTOK	D6E	80
SAPJQEAR	5A4		TJEEYE	0	E3D1C5E5
SAPJSAF	5	40	TJEJOES	8	
SAPJSYSH	5	4	TJELEN	F430	30
SAPJ2TH	6	80	TJESAP	4	
SAPLEN	D78	78			
SAPMCLAS	D6D				
SAPMSTRV	7				
SAPMTRB	4D0				
SAPNDH	498				
SAPNEXT	C				
SAPNJH	494				
SAPONODE	D56				
SAPOTCB	474				
SAPPDDB	76C				
SAPPDDBF	4C4				
SAPPDDBO	4C2				
SAPPDDBP	4C6				
SAPPDDBW	4C0				
SAPPDDB2	8EC				
SAPPRIV	45C				
SAPRBA	D58				
SAPREAS	D6F				
SAPRETN	458				
SAPROUTE	438				
SAPROUTN	44C				
SAPSDB	4CC				
SAPSJB	4C8				
SAPSSS2	10				

\$SCANWA Programming Interface information

Programming Interface information

\$SCANWA

End of Programming Interface information

\$SCANWA Heading Information

Common Name: \$SCAN Facility Work Area
Macro ID: \$SCANWA
DSECT Name: SCWA, SCWABA, SCWADA, XWCWA
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: "SCWA" or "TEMP"
Offset: SCWAID-SCWA
Length: L'SCWAID

Storage Attributes: Subpool: 1
Key: 1
Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.

Size: See SCWALEN, SCWALEND

Created by: \$SCAN macro expansion (normal SCWAs)
\$SCANB service (backup SCWAs)
\$SCAND service (display SCWAs)
Internal \$SCAN processing (filter and subscript SCWAs)

Pointed to by: R1 on entry to prescan and postscan exits
SCWAPWA field of the \$SCANWA data area
SCWADNWA field of the \$SCANWA data area
SCWADPWA field of the \$SCANWA data area
SCWABNWA field of the \$SCANWA data area
SCWABPWA field of the \$SCANWA data area
SCWAFNWA field of the \$SCANWA data area
SCWASNWA field of the \$SCANWA data area
SCWAOLDP field of the \$SCANWA data area
SCWAWCWA field of the \$SCANWA data area

Serialization: None required.

Function:

The SCWA is used as a general work area for \$SCAN.

There are several types of SCWAs:

1) Normal SCWAs - these contain general information regarding the parsing of a string (for example, pointers and lengths of text within the string, subscript and control block information, etc.)

One normal SCWA exists for each recursive level of \$SCAN used in parsing a particular string.

2) Display SCWAs - these are chained to the "oldest" normal SCWA and contain text to be displayed on a \$SCAN display request, specified by the \$SCAND macro. This text is represented by smaller units within the display SCWA (SCWADAs), which contain additional information, such as whether it is allowed (or required) to begin a new display line.

3) Backup SCWAs - contain original values of fields modified by \$SCAN, and are used to restore the original value in case of an error. The backup SCWA is broken up into smaller units (SCWABAs), which contain additional information, such as the length, address, and original value of the backed-up field.

4) Filter SCWAs - keep track of which keywords are specified as filters in the \$SCAN input string.

5) Subscript SCWAs - keep track of additional subscripts or ranges of subscripts in the \$SCAN input string.

\$SCANWA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SCWA	INTERNAL SCAN WORK AREA DSECT
0	(0)	CHARACTER	4	SCWAID	EBCDIC CONTROL BLOCK ID, SET BY \$GETWORK VIA USE=SCWA
4	(4)	ADDRESS	4	SCWADPWA	ADDR OF PREVIOUS DISPLAY SCWA
8	(8)	ADDRESS	4	SCWABPWA	ADDR OF PREVIOUS BACKUP SCWA
12	(C)	ADDRESS	4	SCWADNWA	ADDR OF NEXT DISPLAY SCWA
16	(10)	ADDRESS	4	SCWABNWA	ADDR OF NEXT BACKUP SCWA
20	(14)	ADDRESS	4	SCWAFNWA	ADDR OF NEXT FILTER SCWA
24	(18)	ADDRESS	4	SCWASNWA	ADDR OF NEXT SUBSCRIPT SCWA
28	(1C)	ADDRESS	4	SCWAENWA	ADDR of next TYPE=ERROR BACKUP SCWA
32	(20)	BITSTRING	1	SCWAKIND	\$SCANWA WORK AREA KIND
32	(20)	BITSTRING	0	SCWAKNOR	"B'10000000" NORMAL SCWA
32	(20)	BITSTRING	0	SCWAKDSP	"B'01000000" DISPLAY SCWA
32	(20)	BITSTRING	0	SCWAKBAK	"B'00100000" BACKUP SCWA
32	(20)	BITSTRING	0	SCWAKFLT	"B'00010000" FILTER SCWA
32	(20)	BITSTRING	0	SCWAKSUB	"B'00001000" SUBSCRIPT SCWA
33	(21)	BITSTRING	1	SCWAFLG6	GENERAL FLAG BYTE 6
33	(21)	BITSTRING	0	SCWA6GEN	"B'10000000" FIRST GENERIC ENTRY SAVED
33	(21)	BITSTRING	0	SCWA6BNO	"B'01000000" BRKNEXT=NO specified for last \$SCAND call
33	(21)	BITSTRING	0	SCWA6NCR	"B'00100000" Creates disallowed due to generic subscript
33	(21)	BITSTRING	0	SCWA6MSS	"B'00010000" Multiple subscripts
33	(21)	BITSTRING	0	SCWA60SS	"B'00001000" No subscripts specified, "" assumed
33	(21)	BITSTRING	0	SCWA6GT	"B'00000100" Filter should match if >
33	(21)	BITSTRING	0	SCWA6LT	"B'00000010" Filter should match if <
33	(21)	BITSTRING	0	SCWA6EQ	"B'00000001" Filter should match if =
33	(21)	X'7	0	SCWA6NOT	"SCWA6GT+SCWA6EQ+SCWA6LT" Composite for ~ (NOT)
34	(22)	BITSTRING	1	SCWASLVL	This SCWA scan call level (starting at 0 for the oldest parent)

\$SCANWA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
35	(23)	BITSTRING	1	SCWAELVL	Scan level of error (to be propagated to oldest parent)
36	(24)	ADDRESS	4	SCWAORG1 (0)	ORG POINT FOR DISPLAY AND BACKUP SCWA'S
36	(24)	ADDRESS	4	SCWATOKN	ADDR OF TOKEN
40	(28)	ADDRESS	4	SCWASTBS	ADDR OF \$SCAN TABLES DOUBLEWORD
44	(2C)	ADDRESS	4	SCWASTMT	ADDR OF PARM STMT TO SCAN
48	(30)	SIGNED	2	SCWASLEN	LEN OF PARM STMT TO SCAN
50	(32)	SIGNED	2	SCWADLEN	LEN OF DISPLAY OUTPUT AREA
52	(34)	ADDRESS	4	SCWADOUT	ADDR OF DISPLAY OUTPUT AREA
56	(38)	ADDRESS	4	SCWADR TN	ADDR OF DISPLAY OUTPUT ROUTINE
60	(3C)	ADDRESS	4	SCWAPWA	ADDR OF PARENT SCWA (0 IN THE OLDEST PARENT SCWA)
64	(40)	ADDRESS	4	SCWANWA	ADDR OF DAUGHTER SCWA (0 in the youngest SCWA)
68	(44)	ADDRESS	4	SCWASTAB	ADDR OF CURRENT SCAN TABLE ENTRY
72	(48)	ADDRESS	4	SCWAOTAB	ADDR OF ORIGINAL SCAN TABLE PRIOR TO ALIAS RESOLUTION
76	(4C)	ADDRESS	4	SCWACBCL	ADDR OF CONTROL BLOCK PROVIDED BY CALLER
80	(50)	ADDRESS	4	SCWACBAD	ADDR OF CURRENT CONTROL BLOCK
84	(54)	ADDRESS	4	SCWAFAD	ADDR OF CURRENT FIELD
88	(58)	ADDRESS	4	SCWATEMP	ADDR OF TEMPORARY AREA STACK
92	(5C)	SIGNED	4	SCWADAD2	Work storage for \$GETABLE
96	(60)	ADDRESS	4	SCWAWORK (0)	WORK AREA, USED ONLY BY HIGH LEVEL \$SCAN SUBRTNS/EXITS, E.G. A(STAB) IN FINDTAB, DCTNAME IN FINDCB
106	(6A)	SIGNED	2	SCWARTCD	RETURN CODE OF PROCESSED REQUEST
108	(6C)	ADDRESS	4	SCWAKPTR	PTR TO CURRENT KEYWORD IN STMT
112	(70)	ADDRESS	4	SCWARPTR	PTR TO REMAINING TEXT IN STMT
116	(74)	SIGNED	2	SCWARLEN	LEN OF REMAINING TEXT IN STMT
118	(76)	SIGNED	2	SCWAILEN	LEN OF CURRENT INPUT STRING
120	(78)	ADDRESS	4	SCWAI PTR	PTR TO CURRENT INPUT STRING
124	(7C)	SIGNED	4	SCWACNTR	COUNTER FIELD AVAILABLE FOR PRE AND POST-SCAN EXIT USE ONLY
128	(80)	BITSTRING	1	SCWAEXFL	FLAG BYTE AVAILABLE FOR PRE AND POST-SCAN EXIT USE ONLY
128	(80)	BITSTRING	0	SCWAJNET	"B'10000000" ON JES2 NETACCT CHAIN SEARCH
128	(80)	BITSTRING	0	SCWARM TA	"B'01000000" RMT CURRENTLY AUTOLOG MODE
128	(80)	BITSTRING	0	SCWARTRY	"B'00100000" RETRY INDICATOR
128	(80)	BITSTRING	0	SCWARM TL	"B'00010000" \$T/\$ADD RMT spec LINE
128	(80)	BITSTRING	0	SCWARM SH	"B'00001000" \$T/\$ADD RMT spec SHARABLE
128	(80)	BITSTRING	0	SCWACPCT	"B'00000100" \$T RPR/RPU specified CMPCT
128	(80)	BITSTRING	0	SCWACMPR	"B'00000010" \$T RPR/RPU specif COMPRESS
128	(80)	BITSTRING	0	SCWA\$IND	"B'10000000" \$T MEMBER,IND=YES/NO

Comment

Definitions used by \$TJ command

End of Comment

128	(80)	BITSTRING	0	SCWA\$TJP	"B'10000000" \$TJ PRIORITY specified
128	(80)	BITSTRING	0	SCWA\$TJC	"B'01000000" \$TJ CLASS specified
128	(80)	BITSTRING	0	SCWA\$TJX	"B'00100000" \$TJ XEQ specified
128	(80)	BITSTRING	0	SCWA\$TJS	"B'00010000" \$TJ SRVCLASS specified
128	(80)	BITSTRING	0	SCWA\$TJE	"B'00001000" \$TJ SCHENV specified
128	(80)	BITSTRING	0	SCWA\$TJI	"B'00000100" \$TJ SPIN specified

Comment

The following definitions are used by \$C and \$P job commands and must match parameters passed in R0 to the \$JCAN macro

End of Comment

128	(80)	BITSTRING	0	SCWA\$JPR	"B'00010000" 'PROTECTED' specified
128	(80)	BITSTRING	0	SCWA\$CDU	"B'01000000" 'DUMP' specified

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
EQU B'00100000' Internal \$JCAN use					
End of Comment					
128	(80)	BITSTRING	0	SCWA\$ARM	"B'00000100" 'ARMRESTART' specified
128	(80)	BITSTRING	0	SCWA\$CPU	"B'00000001" Cancel with purge
Comment					
The following are used for \$T JOBCLASS(x)					
End of Comment					
128	(80)	BITSTRING	0	SCWASTMD	"B'10000000" MODE= specified
129	(81)	ADDRESS	1	SCWAWARN	\$SCAN WARNING MASK
130	(82)	BITSTRING	1	SCWAFLG7	Flag byte 7
130	(82)	BITSTRING	0	SCWA7BOU	"B'10000000" Sets to back out at this level of scan exist
130	(82)	BITSTRING	0	SCWA7DNF	"B'01000000" A conflict exists between set and filter keywords
130	(82)	BITSTRING	0	SCWA7FLF	"B'00100000" Current keyword MUST be processed as a filter
130	(82)	BITSTRING	0	SCWA7DDN	"B'00010000" The maximum number of display messages has been exceeded
130	(82)	BITSTRING	0	SCWA7FXT	"B'00001000" Filter SCWA - additional processing required
130	(82)	BITSTRING	0	SCWA7DAL	"B'00000100" Display all was requested for this keyword
130	(82)	BITSTRING	0	SCWA7DSP	"B'00000010" Something displayed at this level on this iteration
130	(82)	BITSTRING	0	SCWA7SDS	"B'00000001" Something done at subscript SCWA level (similar to SCWA4SDL but reset for new subscript SCWA)
131	(83)	ADDRESS	1	SCWACALD	CALLER FOR DISPLAY ON \$SCAN CALLS THAT ARE SETDISP, SETCRDISP, ETC, DURING DISP = ORIG SET CALLER
132	(84)	SIGNED	4	SCWASUBS	LOWER BOUNDARY AND/OR SBSCPT
136	(88)	SIGNED	4	SCWASUBH	UPPER BOUNDARY OF SUBSCRIPT (MAY BE A LOWER VALUE THAN SSCR, IMPLYING A DECREMENTING LOOP)
140	(8C)	SIGNED	2	SCWASCRL	LENGTH OF SUBSCRIPT AREA
142	(8E)	SIGNED	2	SCWAVCNT	COUNT OF VECTOR ELMTS PROCESSED FOR ENTIRE VECTOR SUBSCAN
144	(90)	SIGNED	2	SCWASTVC	COUNT OF VECTOR ELMTS PROCESSED WITHIN CURRENT SCANTAB ENTRY
146	(92)	SIGNED	2	SCWASBL	FIELD LENGTH FOR \$SCANB
148	(94)	SIGNED	2	SCWASDL	FIELD LENGTH FOR \$SCAND
150	(96)	SIGNED	2	SCWAINDL	INDENT VALUE FOR DISPARE RTN
152	(98)	ADDRESS	4	SCWADADD	ADDR OF CURRENT TABLE ENTRY FOR A DISPLAY ALL ENTRIES REQUEST
156	(9C)	BITSTRING	1	SCWATYPE	\$SCAN CALL TYPE
156	(9C)	BITSTRING	0	SCWASET	"B'10000000" \$SCAN SCAN=SET
156	(9C)	BITSTRING	0	SCWADISP	"B'01000000" \$SCAN SCAN=DISPLAY
156	(9C)	BITSTRING	0	SCWADSPA	"B'00100000" FLAG FOR DISPLAY-AFTER
156	(9C)	BITSTRING	0	SCWAMSG	"B'01010000" \$SCAN SCAN=MSG
156	(9C)	BITSTRING	0	SCWACR	"B'00001000" \$SCAN SCAN=CR
156	(9C)	BITSTRING	0	SCWADELE	"B'00000100" \$SCAN SCAN=DELETE
156	(9C)	X'88	0	SCWASETC	"SCWASET+SCWACR" \$SCAN SCAN=SETCR
156	(9C)	X'A0	0	SCWASETD	"SCWASET+SCWADSPA" \$SCAN SCAN=SETDISP
156	(9C)	X'A8	0	SCWASCD	"SCWASETC+SCWADSPA" \$SCAN SCAN=SETCRDISP
156	(9C)	X'28	0	SCWACRDI	"SCWACR+SCWADSPA" \$SCAN SCAN=CRDISP
156	(9C)	X'44	0	SCWADDEL	"SCWADISP+SCWADELE" \$SCAN SCAN=DISPDEL
156	(9C)	X'C4	0	SCWACRRT	"SCWASET+SCWADISP+SCWADELE" Flags to indicate (all off) CR(new CB) required
157	(9D)	BITSTRING	1	SCWAFLG1	GENERAL FLAG BYTE
157	(9D)	BITSTRING	0	SCWAPAR	"B'10000000" SCAN STARTED WITH A PARENTHESIS (MUST END WITH ONE)
157	(9D)	BITSTRING	0	SCWASING	"B'01000000" SCAN RESTRICTED TO SINGLE KEYWORD (POSSIBLY NEEDING MULTI-SUBSCAN)
157	(9D)	BITSTRING	0	SCWASSER	"B'00100000" POSSIBLE SUBSCRIPT ERROR
157	(9D)	BITSTRING	0	SCWAVECT	"B'00010000" VECTOR SCAN BEING PROCESSED

\$SCANWA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
157	(9D)	BITSTRING	0	SCWAPSCN	"B'00001000" PRESCAN EXIT DID SCANNING
157	(9D)	BITSTRING	0	SCWARANG	"B'00000100" POSSIBLE SUBSCRIPT RANGE FOUND
157	(9D)	BITSTRING	0	SCWASCAN	"B'00000010" SUBSCAN IS REQUIRED
157	(9D)	BITSTRING	0	SCWADCOM	"B'00000001" COMMA REQUIRED WITHIN A DISPLAY
158	(9E)	BITSTRING	1	SCWAFLG2	GENERAL FLAG BYTE 2
158	(9E)	BITSTRING	0	SCWADALL	"B'10000000" DISPLAY ALL SUBPARAMETERS
158	(9E)	BITSTRING	0	SCWAHASP	"B'01000000" HAVE COMPLETED HASP TABLE
158	(9E)	BITSTRING	0	SCWA2LNG	"B'00100000" Do LONG display all
158	(9E)	BITSTRING	0	SCWASPAN	"B'00010000" TEXT SPANS AN SCWA
158	(9E)	BITSTRING	0	SCWALOOP	"B'00001000" DISPLAY LOOP AS GENERATED FROM A PRE OR POST-SCAN EXIT AND ONLY AVAILABLE FOR THEIR USE
158	(9E)	BITSTRING	0	SCWA2QSS	"B'00000100" Quotes around subscript
158	(9E)	BITSTRING	0	SCWAPAR2	"B'00000010" Copy of SCWAPAR for loops
158	(9E)	BITSTRING	0	SCWAPERD	"B'00000001" INDICATE MULTI-SECTIONED KYWRD
159	(9F)	BITSTRING	1	SCWAFLG3	GENERAL FLAG BYTE 3
159	(9F)	BITSTRING	0	SCWAMLVL	"B'10000000" DISPLAY MORE THAN ONE SUB-KEYWORD SECTION
159	(9F)	BITSTRING	0	SCWAPARN	"B'01000000" SCWA CONTAINS PART(S) OF THE HIGHEST LEVEL KYWRD SPECIFIED
159	(9F)	BITSTRING	0	SCWAERR	"B'00100000" SCANDIAG BUILDING DIAGNSTC MSG
159	(9F)	BITSTRING	0	SCWAGRPD	"B'00010000" INDICATES SOMETHING DISPLAYED
159	(9F)	BITSTRING	0	SCWAD1ST	"B'00001000" FIRST CALL TO DISPRTN
159	(9F)	BITSTRING	0	SCWADLST	"B'00000100" LAST CALL TO DISPRTN
159	(9F)	BITSTRING	0	SCWA3TCB	"B'00000010" SCWACBAD POINTS TO TEMP CB
159	(9F)	BITSTRING	0	SCWA3DCT	"B'00000001" SCWACBAD POINTS TO A DCT
160	(A0)	BITSTRING	1	SCWAFLG4	GENERAL FLAG BYTE 4
160	(A0)	BITSTRING	0	SCWA4SSG	"B'10000000" GENERIC SYMBOLIC SUBSCRIPT
160	(A0)	BITSTRING	0	SCWA4PSS	"B'01000000" PARENS AROUND SUBSCRIPT
160	(A0)	BITSTRING	0	SCWA4ACT	"B'00100000" ACTIVITY DETERMINED THIS LEVEL
160	(A0)	BITSTRING	0	SCWA4SDL	"B'00010000" SOMETHING DONE IN POSSIBLE LOOP, USED TO REPORT IF NO MATCHES
160	(A0)	BITSTRING	0	SCWA4LFC	"B'00001000" LKUPFLD HAS BEEN CHANGED BY SET, DISPLAY MUST USE NEW SUBSCRPT
160	(A0)	BITSTRING	0	SCWA4SSL	"B'00000100" SOMETHING SKIPPED IN LOOP (PRESCAN EXIT RC=12)
160	(A0)	BITSTRING	0	SCWA4ETL	"B'00000010" END OF SCAN FOR THIS LEVEL
160	(A0)	BITSTRING	0	SCWA4RDE	"B'00000001" ERROR FLAG FOR RESTDISP
161	(A1)	BITSTRING	1	SCWAFLG5	GENERAL FLAG BYTE 5
161	(A1)	BITSTRING	0	SCWA5FLT	"B'10000000" FILTER REQUEST DETECTED
161	(A1)	BITSTRING	0	SCWA5FRJ	"B'01000000" FILTER REQUEST REJECTED
161	(A1)	BITSTRING	0	SCWA5DSP	"B'00100000" Something done at this level other than filters
161	(A1)	BITSTRING	0	SCWA5PS2	"B'00010000" SECOND 'DISPLAY ALL' PASS IN PROGRESS FOR KEYWORD
161	(A1)	BITSTRING	0	SCWA5FND	"B'00001000" FILTER DETECTED WHICH ALSO REQUIRES A DISPLAY
161	(A1)	BITSTRING	0	SCWA5XPR	"B'00000100" DO NOT TAKE ANY MORE PRESCAN EXIT ROUTINES FOR THIS KEYWORD ITERATION
161	(A1)	BITSTRING	0	SCWA5XPO	"B'00000010" DO NOT TAKE ANY MORE POSTSCAN EXIT ROUTINES FOR THIS KEYWORD ITERATION
161	(A1)	BITSTRING	0	SCWA5NSS	"B'00000001" Input at this level contained a numeric subscript (if symbolic then SCWASSSL is set)
162	(A2)	SIGNED	2	SCWARPMM	MAXIMUM RPTR MOVED IN LOOP
164	(A4)	CHARACTER	1	SCWASEPR	SEPARATOR CHARACTER USED DURING DISPLAY CREATION
165	(A5)	BITSTRING	1	SCWADSPR	\$SCAN DISPLAYER ID
166	(A6)	ADDRESS	1	SCWAKWDL	LENGTH OF FIRST SECTION OF A MULTI- SECTIONED KEYWORD
167	(A7)	ADDRESS	1	SCWACALR	\$SCAN CALLER ID - HASP IDS ARE DEFINED IN \$HASPEQU, USERS SHOULD USE IDS FROM 255 DOWN (IF NEEDED)
168	(A8)	BITSTRING	1	SCWABFLG	FLAG BYTE USED BY \$SCANB MACRO TO PASS TYPE TO \$SCANB ROUTINE - ALL BIT DEFINITIONS IN SCWABAFG
169	(A9)	SIGNED	1	SCWASSSL	LENGTH OF INPUT SYMBOLIC SS

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
170	(AA)	SIGNED	1	SCWASSL2	LENGTH of second symbolic in range
171	(AB)	BITSTRING	1		Reserved for future use
172	(AC)	BITSTRING	2	SCWAFVCT	Counter for vector filters specifying NOVORDER
174	(AE)	BITSTRING	2		Reserved for future use
176	(B0)	ADDRESS	4	SCWASSIE	INDIRECTION ENTRY SAVE AREA
180	(B4)	CHARACTER	16	SCWASSS (0)	Symbolic subscript values in normal and subscript SCWAs
180	(B4)	CHARACTER	8	SCWASSSC	SYMBOLIC SUBSCRIPT VALUE
188	(BC)	CHARACTER	8	SCWASSSH	SYMBOLIC SUBSCRIPT VALUE (HIGH RANGE VALUE)
188	(BC)	X'B4	0	SCWAFW16	"SCWASSS" 16-byte work area - only in filter SCWAs
188	(BC)	X'B4 00008'	0	SCWAFW8	"SCWAFW16,8" 8-byte work area
188	(BC)	X'BC 00008'	0	SCWAFW8A	"SCWAFW16+8,8" 8-byte work area
196	(C4)	ADDRESS	4	SCWASSSS	SYM SUBSCRIPT CB SAVE AREA
200	(C8)	ADDRESS	4	SCWASSDR	HIGHEST LEVEL SYMBOLIC LKUPFLD ADDR (USED FOR LATER DISPLAY IF SCWA4LFC IS TURNED ON)
204	(CC)	ADDRESS	4	SCWAWCWA	Address of ASAXWC parm list
208	(D0)	BITSTRING	1	SCWAPRRC	Highest RC encountered from prescan routine
209	(D1)	BITSTRING	1	SCWAPCNT	Count of nested parens for CONV=CHAR
210	(D2)	ADDRESS	1	SCWAMSDL	MAXIMUM SUBSCRIPT DISPLAY LENGTH
211	(D3)	ADDRESS	1	SCWANBLN	ACTUAL SUBSCRIPT LENGTH
212	(D4)	ADDRESS	4	(2)	Reserved for future use

Comment

Filtering work area

In normal SCWAs, the following fields are used to remember display or backup areas that have to be backed out later due to a filter mismatch

In filter SCWAs, these fields are used to store STAB addresses from earlier levels of \$SCAN.

End of Comment

220	(DC)	SIGNED	4	SCWAFWA_START (0)	Begin filter WA
220	(DC)	ADDRESS	4	SCWADCWA	Addr of display SCWA of prefix area for text to back out
224	(E0)	SIGNED	2	SCWADCOF	Offset within display SCWA of prefix area for keyword (SCWANXPT)
226	(E2)	SIGNED	2	SCWADCLN	Remaining length in display SCWA after text is backed out (SCWADFAL)
228	(E4)	ADDRESS	4	SCWADCTA	Addr of last prefix area (SCWALTA)
232	(E8)	ADDRESS	4	SCWABCWA	Addr of backup SCWA of prefix area for sets to back out (SCWA address)
236	(EC)	SIGNED	2	SCWABCOF	Offset within backup SCWA of prefix area for keyword (SCWABLUO)
238	(EE)	SIGNED	2	SCWABCLN	Remaining length in backup SCWA after sets are backed out (SCWABLA)
240	(F0)	SIGNED	2	SCWABCNA	Next remaining area (SCWABNO)
242	(F2)	SIGNED	2		Reserved for future use
244	(F4)	SIGNED	4	SCWAFWA_END (0)	End filter WA
244	(F4)	X'DC 00018'	0	SCWAFWA	"SCWAFWA_START,SCWAFWA_END-SCWAFWA_START" Define work area

Comment

SET SCWA BACKUP AREA FIELDS MAPPED OVER COMMON SCWA

End of Comment

36	(24)	SIGNED	2	SCWABLA	LEN OF AVAILABLE BACKUP SPACE
38	(26)	SIGNED	2	SCWABLT	LEN OF TOTAL BACKUP SPACE
40	(28)	SIGNED	2	SCWABLUO	OFFSET OF LAST USED BACKUP AREA
42	(2A)	SIGNED	2	SCWABNO	OFFSET OF NEXT AVAILABLE BACKUP AREA

\$SCANWA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
44	(2C)	SIGNED	4	(0)	BACKUP AREA ELEMENTS
44	(2C)	BITSTRING	12	SCWABELM	Ensure at least one fits
Comment					
SET SCWA DISPLAY AREA FIELDS MAPPED OVER BACKUP FIELDS					
End of Comment					
36	(24)	ADDRESS	4	SCWAOLDP	ADDR OF OLDEST PARENT SCWA
40	(28)	SIGNED	2	SCWADFAL	LENGTH OF FREE AREA LEFT
42	(2A)	SIGNED	2	SCWANXPT	OFFSET TO NXT POSSIBLE TXT AREA
44	(2C)	SIGNED	4	SCWALTA	ADDRESS TO PREVIOUS TEXT AREA
48	(30)	SIGNED	4	(0)	Beginning of display elmts
48	(30)	BITSTRING	16	SCWADELM	Ensure at least one fits
244	(F4)	X'F4 '	0	SCWALEN	"*-SCWA" LEN OF GENERAL SCWA WORK AREA
244	(F4)	X' '	0	SCWALEND	"1024" Len of DISPLAY SCWA

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SCWADA	, Mapping for display element
0	(0)	SIGNED	2	SCWADTXL	LEN OF TEXT
2	(2)	SIGNED	2	SCWADTLS	LEN OF TEXT IN THIS SCWA
4	(4)	SIGNED	4	SCWANDTA	ADDR OF NEXT TEXT AREA
8	(8)	ADDRESS	4	SCWADSTB	ADDR OF THIS TEXT'S STAB
12	(C)	BITSTRING	1	SCWADFLG	Flags for display
12	(C)	BITSTRING	0	SCWADFCR	"B'10000000" Place CRLF before text
12	(C)	BITSTRING	0	SCWADFCT	"B'01000000" This SCWADA continued in next display SCWA
13	(D)	BITSTRING	3		Reserved for future use
16	(10)	SIGNED	4	SCWADTXT (0)	START OF TEXT
16	(10)	X'10 '	0	SCWADAL	"*-SCWADA"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SCWABA	, BACKUP AREA ELEMENT
0	(0)	BITSTRING	1	SCWABAFG	FLAG BYTE FIELD CORRESPONDING TO THE FLAG BYTE OF SCWABFLG
0	(0)	BITSTRING	0	SCWABABA	"B'10000000" BACKUP AREA CONTAINS BACKED UP STORAGE
0	(0)	BITSTRING	0	SCWABADI	"B'01000000" BACKUP AREA CONTAINS STABNAME TO DISPLAY (FOR SET-DISPLAY)
0	(0)	BITSTRING	0	SCWABAER	"B'00100000" BACKUP AREA CONTAINS KEYWORD OR VALUE IN ERROR
0	(0)	BITSTRING	0	SCWABAIN	"B'00000001" Backup area is no longer valid
1	(1)	BITSTRING	1	SCWABALV	LEVEL OF THE VALUE SAVED
2	(2)	BITSTRING	2		RESERVED FOR FUTURE USE
4	(4)	ADDRESS	4	SCWABAAD	ADDRESS OF STORAGE BACKED UP
8	(8)	SIGNED	2	SCWABALN	LENGTH OF STORAGE BACKED UP
10	(A)	SIGNED	2	SCWABAPO	OFFSET OF PREVIOUS BA IN SCWA OR 0
12	(C)	SIGNED	4	SCWABAFB (0)	CONTENTS OF BACKED-UP FIELD
12	(C)	X'C '	0	SCWABAL	"*-SCWABA"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	XWCWA	, ASAXWC work area
0	(0)	CHARACTER	4		Eyecatcher
4	(4)	CHARACTER	256	XWCDATA	Data work area
260	(104)	SIGNED	4	XWCDATAL	Length of data
264	(108)	CHARACTER	256	XWCSTR	Input string area
520	(208)	SIGNED	4	XWCSTRL	Length of input string MACDATE -05/30/00-<0>

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	X'C	0	M00M1040	"XWCLIST" ++ ASAXWC NAME
524	(20C)	SIGNED	4	XWCLIST (0)	++ ASAXWC PARM LIST
524	(20C)	ADDRESS	4	XWCLIST_XPATTERNSTR_ADDR	++ ADDR XPATTERNSTR
528	(210)	SIGNED	4	XWCLIST_XPATTERNSTRLEN	++ XPATTERNSTRLEN
532	(214)	ADDRESS	4	XWCLIST_XSTRING_ADDR	++ ADDR XSTRING
536	(218)	SIGNED	4	XWCLIST_XSTRINGLEN	++ XSTRINGLEN
540	(21C)	ADDRESS	4	XWCLIST_XZEROORMORE_ADDR	++ ADDR XZEROORMORE
544	(220)	ADDRESS	4	XWCLIST_XONECHAR_ADDR	++ ADDR XONECHAR
548	(224)	ADDRESS	4	XWCLIST_XDELIMITER_ADDR	++ ADDR XDELIMITER
548	(224)	X'1C	0	XWCLISTL	**XWCLIST" ++ LENGTH OF PLIST

Comment

ASAXWC-0

End of Comment

552	(228)	BITSTRING	256	XWCAREA	Work area passed to ASAXWC
808	(328)	DBL WORD	8	(0)	
808	(328)	X'28	0	XWCLEN	**XWCWA" Length of work area
808	(328)	X'CA	0	XWCWORDS	"XWCLEN/4" Length in words

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SCWA	Restore SCWA DSECT

\$SCANWA Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
M00M1040	0	C	SCWABCWA	E8	
SCWA\$ARM	80	4	SCWABELM	2C	
SCWA\$CDU	80	40	SCWABFLG	A8	
SCWA\$CPU	80	1	SCWABLA	24	
SCWA\$IND	80	80	SCWABLT	26	
SCWA\$JPR	80	10	SCWABLUO	28	
SCWA\$TJC	80	40	SCWABNO	2A	
SCWA\$TJE	80	8	SCWABNWA	10	
SCWA\$TJI	80	4	SCWABPWA	8	
SCWA\$TJP	80	80	SCWACALD	83	
SCWA\$TJS	80	10	SCWACALR	A7	
SCWA\$TJX	80	20	SCWACBAD	50	
SCWABAAD	4		SCWACBCL	4C	
SCWABABA	0	80	SCWACMPR	80	2
SCWABADI	0	40	SCWACNTR	7C	
SCWABAER	0	20	SCWACPCT	80	4
SCWABAFB	C		SCWACR	9C	8
SCWABAFG	0		SCWACRDI	9C	28
SCWABAIN	0	1	SCWACRRT	9C	C4
SCWABAL	C	C	SCWADADD	98	
SCWABALN	8		SCWADAD2	5C	
SCWABALV	1		SCWADAL	10	10
SCWABAPO	A		SCWADALL	9E	80
SCWABCLN	EE		SCWADCLN	E2	
SCWABCNA	F0		SCWADCOF	E0	
SCWABCOF	EC		SCWADCOM	9D	1

\$SCANWA Cross Reference

Name	Hex Offset	Hex Value		Name	Hex Offset	Hex Value
SCWADCTA	E4			SCWAMSG	9C	50
SCWADCWA	DC			SCWANBLN	D3	
SCWADDEL	9C	44		SCWANDTA	4	
SCWADELE	9C	4		SCWANWA	40	
SCWADELM	30			SCWANXPT	2A	
SCWADFAL	28			SCWAOLDP	24	
SCWADFCR	C	80		SCWAORG1	24	
SCWADFCT	C	40		SCWAOTAB	48	
SCWADFLG	C			SCWAPAR	9D	80
SCWADISP	9C	40		SCWAPARN	9F	40
SCWADLEN	32			SCWAPAR2	9E	2
SCWADLST	9F	4		SCWAPCNT	D1	
SCWADNWA	C			SCWAPERD	9E	1
SCWADOUT	34			SCWAPPRC	D0	
SCWADPWA	4			SCWAPSCN	9D	8
SCWADRTRN	38			SCWAPWA	3C	
SCWADSPA	9C	20		SCWARANG	9D	4
SCWADSPR	A5			SCWARLEN	74	
SCWADSTB	8			SCWARMSH	80	8
SCWADTLS	2			SCWARMTA	80	40
SCWADTXL	0			SCWARMTL	80	10
SCWADTXT	10			SCWARPMM	A2	
SCWAD1ST	9F	8		SCWARPTR	70	
SCWAELVL	23			SCWARTCD	6A	
SCWAENWA	1C			SCWARTRY	80	20
SCWAERR	9F	20		SCWASBL	92	
SCWAEXFL	80			SCWASCAN	9D	2
SCWAFAD	54			SCWASCD	9C	A8
SCWAFLG1	9D			SCWASCRL	8C	
SCWAFLG2	9E			SCWASDL	94	
SCWAFLG3	9F			SCWASEPR	A4	
SCWAFLG4	A0			SCWASET	9C	80
SCWAFLG5	A1			SCWASETC	9C	88
SCWAFLG6	21			SCWASETG	9C	A0
SCWAFLG7	82			SCWASING	9D	40
SCWAFNWA	14			SCWASLEN	30	
SCWAFVCT	AC			SCWASLVL	22	
SCWAFWA	F4	DC	00018	SCWASNWA	18	
SCWAFWA_END	F4			SCWASPAN	9E	10
SCWAFWA_START				SCWASSDR	C8	
	DC			SCWASSER	9D	20
SCWAFW16	BC	B4		SCWASSIE	B0	
SCWAFW8	BC	B4	00008	SCWASSL2	AA	
SCWAFW8A	BC	BC	00008	SCWASSS	B4	
SCWAGRPD	9F	10		SCWASSSC	B4	
SCWAHASP	9E	40		SCWASSSH	BC	
SCWAID	0			SCWASSSL	A9	
SCWAILEN	76			SCWASSSS	C4	
SCWAINDL	96			SCWASTAB	44	
SCWAIPTR	78			SCWASTBS	28	
SCWAJNET	80	80		SCWASTMD	80	80
SCWAKBAK	20	20		SCWASTMT	2C	
SCWAKDSP	20	40		SCWASTVC	90	
SCWAKFLT	20	10		SCWASUBH	88	
SCWAKIND	20			SCWASUBS	84	
SCWAKNOR	20	80		SCWATEMP	58	
SCWAKPTR	6C			SCWATOKN	24	
SCWAKSUB	20	8		SCWATYPE	9C	
SCWAKWDL	A6			SCWAVCNT	8E	
SCWALEN	F4	F4		SCWAVECT	9D	10
SCWALEND	F4			SCWAWARN	81	
SCWALoop	9E	8		SCWAWCWA	CC	
SCWALTA	2C			SCWAWORK	60	
SCWAMLVL	9F	80		SCWA2LNG	9E	20
SCWAMSDL	D2			SCWA2QSS	9E	4

Name	Hex Offset	Hex Value
SCWA3DCT	9F	1
SCWA3TCB	9F	2
SCWA4ACT	A0	20
SCWA4ETL	A0	2
SCWA4LFC	A0	8
SCWA4PSS	A0	40
SCWA4RDE	A0	1
SCWA4SDL	A0	10
SCWA4SSG	A0	80
SCWA4SSL	A0	4
SCWA5DSP	A1	20
SCWA5FLT	A1	80
SCWA5FND	A1	8
SCWA5FRJ	A1	40
SCWA5NSS	A1	1
SCWA5PS2	A1	10
SCWA5XPO	A1	2
SCWA5XPR	A1	4
SCWA6BNO	21	40
SCWA6EQ	21	1
SCWA6GEN	21	80
SCWA6GT	21	4
SCWA6LT	21	2
SCWA6MSS	21	10
SCWA6NCR	21	20
SCWA6NOT	21	7
SCWA60SS	21	8
SCWA7BOU	82	80
SCWA7DAL	82	4
SCWA7DDN	82	10
SCWA7DNF	82	40
SCWA7DSP	82	2
SCWA7FLF	82	20
SCWA7FXT	82	8
SCWA7SDS	82	1
XWCAREA	228	
XWCDATA	4	
XWCATAL	104	
XWCLEN	328	28
XWCLIST	20C	
XWCLIST_XDELIMITER_ADDR	224	
XWCLIST_XONECHAR_ADDR	220	
XWCLIST_XPATTERNSTR_ADDR	20C	
XWCLIST_XPATTERNSTRLEN	210	
XWCLIST_XSTRING_ADDR	214	
XWCLIST_XSTRINGLEN	218	
XWCLIST_XZEROORMORE_ADDR	21C	
XWCLISTL	224	1C
XWCSTR	108	
XWCSTRL	208	
XWCWORDS	328	CA

\$SCAT Programming Interface Information

Programming Interface Information

\$SCAT

End of Programming Interface Information

\$SCAT Heading Information

Common Name: JES2 SYSOUT Class Attribute Table
Macro ID: \$SCAT
DSECT Name: SCAT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Offset: N/A
Subpool and Key: Subpool 228 and key 1
Size: 128 bytes
Created by: HASPIRMA
Pointed to by: CCTSCAT field of the \$HCCT data area (this is the actual address, not a pointer, the SCAT resides within the \$SCAT).
Serialization: None
Function: The SCAT defines the attributes of the JES2 SYSOUT classes. There are 64 SCAT entries arranged contiguously. The appropriate SCAT entry for a particular class is found by taking to indicate the class (e.g. class A = X'C1'), turning off the high order 2 bits (e.g. class A = X'01'), multiplying by the SCATLEN equate, and adding to the address of CCTSCAT.

\$SCAT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SCAT	SYSOUT CLASS ATTRIBUTE TABLE ELEMENT
0	(0)	BITSTRING	1	SCATFLG1	SYSOUT CLASS FLAG BYTE 1
0	(0)	BITSTRING	0	SCATYPES	"B'11100000" SCAT ELEMENT TYPES
0	(0)	BITSTRING	0	SCAT1PRT	"B'10000000" SYSOUT CLASS NORMALLY PRINTED
0	(0)	BITSTRING	0	SCAT1PCH	"B'01000000" SYSOUT CLASS NORMALLY PUNCHED
0	(0)	BITSTRING	0	SCAT1DUM	"B'00100000" TREAT SYSOUT CLASS AS DUMMY
0	(0)	BITSTRING	0	SCAT1BLK	"B'00010000" TRUNCATE THIS SYSOUT CLASS
0	(0)	BITSTRING	0	SCAT1TCL	"B'00001000" TRAKCELL THIS SYSOUT CLASS
0	(0)	BITSTRING	0	SCAT1INV	"B'00000001" INVALID SYSOUT CLASS
1	(1)	BITSTRING	1	SCATFLG2	SYSOUT CLASS FLAG BYTE 2
1	(1)	X'10	0	SCT2NODP	"\$ODPURGE" NORMAL OUTDISP=PURGE
1	(1)	X'8	0	SCT2NODW	"\$ODWRITE" NORMAL OUTDISP=WRITE
1	(1)	X'4	0	SCT2NODH	"\$ODHOLD" NORMAL OUTDISP=HOLD
1	(1)	X'2	0	SCT2NODK	"\$ODKEEP" NORMAL OUTDISP=KEEP
1	(1)	X'1	0	SCT2NODL	"\$ODLEAVE" NORMAL OUTDISP=LEAVE
1	(1)	X'1F	0	SCT2NODA	"\$ODANYWP" CHECK ALL BIT SETTINGS
2	(2)	BITSTRING	1	SCATFLG3	SYSOUT CLASS FLAG BYTE 3
2	(2)	X'10	0	SCT3AODP	"\$ODPURGE" ABNORMAL OUTDISP=PURGE
2	(2)	X'8	0	SCT3AODW	"\$ODWRITE" ABNORMAL OUTDISP=WRITE
2	(2)	X'4	0	SCT3AODH	"\$ODHOLD" ABNORMAL OUTDISP=HOLD
2	(2)	X'2	0	SCT3AODK	"\$ODKEEP" ABNORMAL OUTDISP=KEEP
2	(2)	X'1	0	SCT3AODL	"\$ODLEAVE" ABNORMAL OUTDISP=LEAVE
2	(2)	X'1F	0	SCT3AODA	"\$ODANYWP" CHECK ALL BIT SETTINGS
2	(2)	X'3	0	SCATLEN	**SCAT" LENGTH OF A SCAT ENTRY

\$SCAT Cross Reference

Name	Hex Offset	Hex Value
SCATFLG1	0	
SCATFLG2	1	
SCATFLG3	2	
SCATLEN	2	3
SCATYPES	0	E0
SCAT1BLK	0	10
SCAT1DUM	0	20
SCAT1INV	0	1
SCAT1PCH	0	40
SCAT1PRT	0	80
SCAT1TCL	0	8
SCT2NODA	1	1F
SCT2NODH	1	4
SCT2NODK	1	2
SCT2NODL	1	1
SCT2NODP	1	10
SCT2NODW	1	8
SCT3AODA	2	1F
SCT3AODH	2	4
SCT3AODK	2	2
SCT3AODL	2	1
SCT3AODP	2	10
SCT3AODW	2	8

\$SCID Programming Interface information

Programming Interface information

\$SCID

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

- SCIDDSB
- SCIDSPUD

End of Programming Interface information

\$SCID Heading Information

Common Name: Summary of Checkpoint Information
Macro ID: \$SCID
DSECT Name: SCID
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: SCID
 Offset: SCIDID-SCID
 Length: L'SCIDID

Storage Attributes: Subpool: 231
 Key: 1
 Residency: Virtual and real storage are anywhere, above or below 16M, in common storage.

Size: See SCIDSIZE
Created by: HASPCKVR during initialization processing
Pointed to by: CCTSCIDS field of the \$HCCT data area
Serialization: All applicable techniques
Function: This control block contains the necessary information needed by the Checkpoint Versions/Appcopy Subtask. It provides the means by which authorized programs access the checkpoint versions contained within the checkpoint data space.

\$SCID Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SCID	
0	(0)	CHARACTER	4	SCIDID	SCID eye catcher
4	(4)	BITSTRING	1	SCIDSUBP	SCID subpool
5	(5)	BITSTRING	3	SCIDLEN	SCID length
8	(8)	BITSTRING	1	SCIDCBVN	Control block vers. no
9	(9)	BITSTRING	1	SCIDFLG	Flag Byte-subtask stats
9	(9)	BITSTRING	0	SCIDDSE	"B'10000000" Data space exists
9	(9)	BITSTRING	0	SCIDDISA	"B'01000000" Subtask disabled
9	(9)	BITSTRING	0	SCIDPJ2	"B'00100000" Subtask in PJES2
9	(9)	BITSTRING	0	SCIDSINA	"B'00010000" Subtask inactive
9	(9)	BITSTRING	0	SCIDSREC	"B'00001000" Subtask in recovery
10	(A)	BITSTRING	1	SCIDFLG2	Flag Byte-Versning stat
10	(A)	BITSTRING	0	SCIDVACT	"B'01000000" Versioning active
11	(B)	BITSTRING	1		
12	(C)	ADDRESS	4	SCIDSPUD	Pointer to the SPUD
16	(10)	SIGNED	4	SCIDDSRC	Return code DSPSERV
20	(14)	CHARACTER	8	SCIDSTOK	STOKEN of ckpt data sp
28	(1C)	CHARACTER	8	SCIDNAME (0)	Requested name of data sp
28	(1C)	CHARACTER	4	SCIDSTNM	Subtask name 'CKVR'
32	(20)	CHARACTER	4	SCIDSSNM	Subsystem name 'JESX'
36	(24)	CHARACTER	8	SCIDDSPN	Official name of d.s.
44	(2C)	SIGNED	4	SCIDDSIZ	Size of data space
48	(30)	ADDRESS	4	SCIDSORG	Origin of data space
52	(34)	SIGNED	4	SCIDVRNO	Running version number
56	(38)	ADDRESS	4	SCIDDSB	Addr of data space DSB
60	(3C)	CHARACTER	8	SCIDSTCK (0)	Time of last request
60	(3C)	SIGNED	4	SCIDREQT	Primary part -time
64	(40)	SIGNED	4		Last part of time
68	(44)	SIGNED	4		Reserved
68	(44)	X'48	0	SCIDSIZE	"*-SCID"
68	(44)	BITSTRING	0	SCIDCVNO	"X'01"
68	(44)	X'C4	0	SCIDEYEC	"C'SCID"

\$SCID Cross Reference

Name	Hex Offset	Hex Value
SCIDCBVN	8	
SCIDCVNO	44	1
SCIDDISA	9	40
SCIDDSB	38	
SCIDDSE	9	80
SCIDDSIZ	2C	
SCIDDSPN	24	
SCIDDSRC	10	
SCIDEYEC	44	C4
SCIDFLG	9	
SCIDFLG2	A	
SCIDID	0	
SCIDLEN	5	
SCIDNAME	1C	
SCIDPJ2	9	20
SCIDREQT	3C	
SCIDSINA	9	10
SCIDSIZE	44	48
SCIDSORG	30	
SCIDSPUD	C	
SCIDSREC	9	8
SCIDSSNM	20	
SCIDSTCK	3C	
SCIDSTNM	1C	
SCIDSTOK	14	
SCIDSUBP	4	
SCIDVACT	A	40
SCIDVRNO	34	

\$SCT Heading Information

Common Name: SCT
Macro ID: \$SCT
DSECT Name: SCT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: SCT
 Offset: SCTSCTID
 Length: L'SCTSCTID
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 SCTLLEN
Created by: HASPIRMA
Pointed to by: \$SCT field of the HCT data area
Serialization: Normal JES2 PCE dispatch serialization
Function: The SCT contains data relevant to the execution of the Spin PCEs. It is used by the Spin PCEs for spin processing related communication.

\$SCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SCT	
0	(0)	X' '	0	SCTLLEN	"4096" Length of SCT
0	(0)	CHARACTER	4	SCTSCTID	SCT eyecatcher
4	(4)	ADDRESS	1	SCTVER	SCT version number
4	(4)	X'2 '	0	SCTVERN	"2" SCT version
5	(5)	ADDRESS	1	SCTFLAG1	Spin PCE flags
5	(5)	BITSTRING	0	SCT1TDIS	"B'10000000" Spin PCE trace disabled
5	(5)	BITSTRING	0	SCT1TRCI	"B'01000000" Trace table initialized
6	(6)	SIGNED	2		Reserved for future use

Comment

Spin processing count fields. The following counts are maintained:

- SCTSPPR: Count of all spin IOTs processed. This field is incremented by one each time HASPSPIN processes a spin IOT from the FIFO queue in the HCCT. This includes IOTs for which JOEs are built as well as IOTs which are unspun.
- SCTSPUN: Count of all spin IOTs which have been unspun.
- SCTUNPR: Count of all unspun IOTs which have been successfully processed for output.

In general: > SCTSPUN = SCTUNPR when no unspun IOTs exist.
 > CCTSPINC = SCTSPPR when no spin IOTs exist in the HCCT (CCTSPIOT=CCTFIFOQ=0).

SCTBATC: Count of all the number of BATs associated with SPIN CSA IOTs.

Errors (as reported by \$DISTERR) will affect the consistency of these counts.

End of Comment

8	(8)	SIGNED	4	SCTSPPR	Count of spin IOTs proc'd
12	(C)	SIGNED	4	SCTSPUN	Count of spin IOTs unspun
16	(10)	SIGNED	4	SCTUNPR	Count of unspun IOTs proc'd

\$SCT Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
20	(14)	SIGNED	4	SCTBATC	Count of BATs in use by all SPIN PCEs
20	(14)	X'64	0	SCTBATLM	"100" Max number of bats in use

Comment

HASPSPIN Recovery information and parameters.

The time interval values in seconds are used to compare against the first word of the STCK value. POPs indicates that bit position 31 of the clock is incremented every 1.048576 seconds. For the purposes of determining abend intervals this is considered a close enough approximation of one second.

End of Comment

24	(18)	SIGNED	4	SCTABDT	Count of abends - total
32	(20)	DBL WORD	8	SCTABTIM	HASPSPIN abend time marker
32	(20)	X'58	0	SCT10MIN	"10*60" 10 minutes (in seconds)
32	(20)	X'B0	0	SCT20MIN	"20*60" 20 minutes (in seconds)
40	(28)	SIGNED	4	SCTABD20	Count of abends in 20 min.
44	(2C)	SIGNED	4		Reserved for future use
48	(30)	SIGNED	4		Reserved for future use
52	(34)	SIGNED	4		Reserved for future use
56	(38)	SIGNED	4		Reserved for future use
60	(3C)	SIGNED	4		Reserved for future use
64	(40)	DBL WORD	8		Reserved for future use

Comment

The Spin PCE trace table occupies the remainder of the SCT.

Note that a minimum of ten entries are defined. The actual number of entries is a function of the remaining space in the SCT up to the actual size as defined by SCTLLEN.

End of Comment

72	(48)	DBL WORD	8	(0)	
72	(48)	SIGNED	4	SCTTCUR	Addr of current trace entry
76	(4C)	SIGNED	4	SCTTLAST	Addr of last trace entry
80	(50)	DBL WORD	8	(0)	
80	(50)	ADDRESS	4	SCTTTAB (0)	HASPSPIN trace table ** minimum of 10 entries **

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SCTTRENT	
0	(0)	SIGNED	4	SCTTWD0	Spin PCE trace entry word 0
0	(0)	X'	0	SCTTTYP0	"0" Trace type 0
0	(0)	X'1	0	SCTTTYP1	"1" Trace type 1
0	(0)	X'2	0	SCTTTYP2	"2" Trace type 2
0	(0)	X'3	0	SCTTTYP3	"3" Trace type 3
0	(0)	X'4	0	SCTTTYP4	"4" Trace type 4
0	(0)	X'5	0	SCTTTYP5	"5" Trace type 5
0	(0)	X'6	0	SCTTTYP6	"6" Trace type 6
4	(4)	SIGNED	4	SCTTWD1	Spin PCE trace entry word 1
8	(8)	SIGNED	4	SCTTWD2	Spin PCE trace entry word 2
12	(C)	SIGNED	4	SCTTWD3	Spin PCE trace entry word 3
16	(10)	SIGNED	4	SCTTWD4	Spin PCE trace entry word 4
20	(14)	SIGNED	4	SCTTWD5	Spin PCE trace entry word 5
24	(18)	SIGNED	4	SCTTWD6	Spin PCE trace entry word 6
28	(1C)	SIGNED	4	SCTTWD7	Spin PCE trace entry word 7
28	(1C)	X'20	0	SCTTESIZ	**"SCTTRENT" Size of single trace entry

\$SCT Cross Reference

Name	Hex Offset	Hex Value
SCTABDT	18	
SCTABD20	28	
SCTABTIM	20	
SCTBATC	14	0
SCTBATLM	14	64
SCTFLAG1	5	
SCTLEN	0	
SCTSCTID	0	E2C3E340
SCTSPPR	8	0
SCTSPUN	C	0
SCTTCUR	48	
SCTTESIZ	1C	20
SCTTLAST	4C	
SCTTTAB	50	
SCTTTYP0	0	
SCTTTYP1	0	1
SCTTTYP2	0	2
SCTTTYP3	0	3
SCTTTYP4	0	4
SCTTTYP5	0	5
SCTTTYP6	0	6
SCTTWD0	0	
SCTTWD1	4	
SCTTWD2	8	
SCTTWD3	C	
SCTTWD4	10	
SCTTWD5	14	
SCTTWD6	18	
SCTTWD7	1C	
SCTUNPR	10	0
SCTVER	4	
SCTVERN	4	2
SCT1TDIS	5	80
SCT1TRCI	5	40
SCT10MIN	20	58
SCT20MIN	20	B0

\$SDB Programming Interface information

Programming Interface information

\$SDB

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

- SDBDEB
- SDBRPL
- SDBTRK
- SDBTRKL
- SDBJFCBE
- SDBTCBM
- SDBTRKF
- SDBUPRBA

End of Programming Interface information

\$SDB Heading Information

Common Name: SDB - JES2 Subsystem Dataset Block
Macro ID: \$SDB
DSECT Name: SDB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'SDB '
 Offset: SDBID-SDB
 Length: 4

Storage Attributes: Subpool: 230
 Key: 1
 Residency: Virtual storage is below the 16M line and real storage is anywhere (above or below 16M) in the address space of the application that is reading or writing the subsystem dataset represented by this SDB.

Size: See SDBLNG. The actual length will be stored in SDBLENG when the \$SDB is created.

Created by: The \$SDBINIT service routine and the FGDSALOC routine.

Pointed to by: GCBSDB field of the \$GDB data area
 SJBSDB field of the \$SJB data area
 SDBSDB field of the \$SDB data area
 DEBIRBAD field of the DEB data area (after OPEN)

Serialization: None

Function: The SDB represents a subsystem dataset. It indicates the state of the dataset (open/closed, input/output, I/O active, etc). It holds pointers to other subsystem control blocks and holds the address (MTTR) of the next available record on SPOOL for output. The chain of buffers needed for I/O is chained to it. The IOB used for EXCP is imbedded in it along with the channel program.

\$SDB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SDB	
0	(0)	SIGNED	4	SDBSAVE (18)	SAVE AREA
72	(48)	CHARACTER	4	SDBID	SDB IDENTIFIER
76	(4C)	SIGNED	4	SDBR14SV	HPMOVE R14 save area
80	(50)	SIGNED	2	SDBLENG	SDB LENGTH
82	(52)	BITSTRING	1	SDBFLG1	FLAG BYTE 1
82	(52)	BITSTRING	0	SDB1GET	"B'10000000" GET ALLOWED
82	(52)	BITSTRING	0	SDB1BFXS	"B'01000000" BUFFER EXCESSION ALLOWED, EXCP REQUIRED TO REDRIVE.
82	(52)	BITSTRING	0	SDB1PUT	"B'00100000" PUT ALLOWED
82	(52)	BITSTRING	0	SDB1OUT	"B'00001000" CARRIAGE CONTROL ALLOWED
82	(52)	BITSTRING	0	SDB1CLOS	"B'00000100" Do not get chaining track, data set is closing
82	(52)	BITSTRING	0	SDB1FOPN	"B'00000001" INIT DATA SET - FAKE-OPENED
83	(53)	BITSTRING	1	SDBFLG2	FLAG BYTE 2
83	(53)	BITSTRING	0	SDB2RSV	"B'10000000" Reserved
83	(53)	BITSTRING	0	SDB2IOE	"B'01000000" PERMANENT I/O ERROR
83	(53)	BITSTRING	0	SDB2EOD	"B'00100000" END OF DATASET
83	(53)	BITSTRING	0	SDB2GLM	"B'00010000" LOCATE MODE GETS ALLOWED
83	(53)	BITSTRING	0	SDB2DSRS	"B'00001000" Dataset restart- EOD or IOE
83	(53)	BITSTRING	0	SDB2XBIN	"B'00000010" THIS IS BATCH INPUT UNIT
83	(53)	BITSTRING	0	SDB2MCLS	"B'00000001" OUTPUT CLASS IS \$ OR *
84	(54)	CHARACTER	8	SDBDDNM	DDNAME OF DATA SET

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
92	(5C)	SIGNED	4	SDBOPNCT	DATA SET OPEN COUNT
96	(60)	ADDRESS	4	SDBTCBM	TCB WHICH OWNS SDB
100	(64)	ADDRESS	4	SDBHCCT	POINTER TO HASP HCCT
104	(68)	ADDRESS	4	SDBSJB	POINTER TO SJB
108	(6C)	ADDRESS	4	SDBSDB	POINTER TO NEXT SDB OFF SJB
112	(70)	ADDRESS	4	SDBJFCBE	POINTER TO JFCB EXTENSION
116	(74)	ADDRESS	4	SDBPIOT	POINTER TO PDDB IOT
120	(78)	ADDRESS	4	SDBPDDB	POINTER TO PDDB
124	(7C)	SIGNED	4	SDBSAPAL	ALET for the SAPI data spc
128	(80)	ADDRESS	4	SDBSAPID	Address of SAPID. The SAPID is in a data space.
136	(88)	DBL WORD	8	(0)	ALIGN SDBTAB ON DOUBLE WORD
136	(88)	BITSTRING	1	SDBTAB (0)	MAJOR/MINOR TAB
136	(88)	X'90	0	SDBAIOT	"TABAIOT-TAB+SDBTAB,,C'A" POINT TO ALLOCATION IOT
148	(94)	ADDRESS	4	SDBDEB	Pointer to last DEB that was OPENed
152	(98)	DBL WORD	8	SDBTRKF	FIRST RBA
160	(A0)	DBL WORD	8	SDBTRK	RBA OF 1ST LREC IN CURRENT UBF
168	(A8)	DBL WORD	8	SDBTRKL	ENDING RBA
176	(B0)	CHARACTER	8	SDBKEY (0)	RECORD VERIFICATION KEY ---
176	(B0)	BITSTRING	4	SDBJKEY	4-BYTE UNIQUE JOB KEY
180	(B4)	BITSTRING	4	SDBDKEY	4-BYTE UNIQUE DS NO. IN JOB
184	(B8)	SIGNED	2	SDBJASID	TARGET JOB'S ASID (BROWSE)
186	(BA)	SIGNED	2		RESERVED FOR FUTURE USE
188	(BC)	CHARACTER	8	SDBRCID	8 CHAR RECVR ID FOR BROWSE
196	(C4)	SIGNED	4	SDBLOGAD	ADDR OF BROWSE LOG STRING
200	(C8)	BITSTRING	1	SDBFLGAS	Asynchronous flag byte (updates serialized by local lock)
200	(C8)	BITSTRING	0	SDBASIOA	"B'10000000" I/O is active

Comment

 Flag bits SDBASCEC and SDBASPCE are to be used ONLY as communication between the channel end appendage and the post exit in HAM (HAMPSTER). If SDBASCEC is on, the channel end appendage has completed its processing and no more I/O will be done for the EXCP request. It should ONLY be checked in the post exit routine to determine if the abnormal channel end appendage should be called.
 SDBASPCE indicates that the channel end appendage was called as a subroutine from the post exit rather than from EXCP. It should ONLY be checked in the channel end appendage to determine whether certain pieces of processing should be done or not.

End of Comment

200	(C8)	BITSTRING	0	SDBASCEC	"B'01000000" Channel end appendage has completed
200	(C8)	BITSTRING	0	SDBASPCE	"B'00100000" Channel end appendage entered from post exit
201	(C9)	BITSTRING	1	SDBCHEND	CHANNEL END PROCESSING REQUIRED ---
201	(C9)	X'	0	SDBCEGET	"0" FOR GET
201	(C9)	X'4	0	SDBCEPUT	"4" FOR PUT
201	(C9)	X'8	0	SDBCEPNT	"8" FOR POINT
201	(C9)	X'C	0	SDBCEGUP	"12" FOR GET-UPDATE
201	(C9)	X'10	0	SDBCEGLM	"16" FOR GET-LOCATE MODE
202	(CA)	BITSTRING	1	SDBFLG3	FLAG BYTE 3
202	(CA)	BITSTRING	0	SDB3TCL	"B'10000000" DATA SET TRACK-CELLED
202	(CA)	BITSTRING	0	SDB3LOG	"B'01000000" SYSLOG DATASET SPIN FAILED
202	(CA)	BITSTRING	0	SDB3LINE	"B'00100000" RECORD IS LINE MODE
202	(CA)	BITSTRING	0	SDB3PAGE	"B'00010000" RECORD IS PAGE DATA
202	(CA)	BITSTRING	0	SDB3OUTX	"B'00001000" ABEND722 IN PROGRESS
202	(CA)	BITSTRING	0	SDB3CEA	"B'00000100" CE APPENDAGE IN CONTROL
202	(CA)	BITSTRING	0	SDB3VSWT	"B'00000010" VOLUME SWITCH NECESSARY
202	(CA)	BITSTRING	0	SDB3BTRC	"B'00000001" DATASET BLANKS TRUNCATED

\$SDB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
203	(CB)	BITSTRING	1	SDBFLG4	FLAG BYTE 4
203	(CB)	BITSTRING	0	SDB4PSO	"B'10000000" PROCESS-SYSOUT DATA SET
203	(CB)	BITSTRING	0	SDB4SYIN	"B'01000000" SYSIN DATA SET
203	(CB)	BITSTRING	0	SDB4SOUT	"B'00100000" SYSOUT DATA SET
203	(CB)	BITSTRING	0	SDB4RECV	"B'00010000" DATA SET ALLOCATED FOR RECV
203	(CB)	BITSTRING	0	SDB4SPBR	"B'00001000" SPOOL BROWSE DATA SET
203	(CB)	BITSTRING	0	SDB4SRBO	"B'00000100" Do not position to start of UBF. It was SRB obtained
203	(CB)	BITSTRING	0	SDB4PBAD	"B'00000010" PUT WAS UNSUCCESSFUL
203	(CB)	BITSTRING	0	SDB4BFWT	"B'00000001" WAIT FOR PBUF
204	(CC)	BITSTRING	1	SDBFLG5	FLAG BYTE 5 SERIALIZATION: NONE (DO NOT USE IN SIO OR CHANNEL END APPENDAGES)
204	(CC)	BITSTRING	0	SDB5CSPN	"B'10000000" COUNT SPANNED RECORD
204	(CC)	BITSTRING	0	SDB5OUTL	"B'01000000" OUTLIM exceeded for normal PUT request
204	(CC)	BITSTRING	0	SDB5SBNS	"B'00100000" Spool browse - Do not attempt SRB for this DS (no more data available)
204	(CC)	BITSTRING	0	SDB5INCI	"B'00010000" Include SYSIN in the data stream for this Data set
204	(CC)	BITSTRING	0	SDB5ADFR	"B'00001000" Defer excession limit ABEND (set during close)
204	(CC)	BITSTRING	0	SDB5ABND	"B'00000100" ABEND for output limit excession (Never reset)
204	(CC)	BITSTRING	0	SDB5ADMP	"B'00000010" A DUMP is requested for the 722 ABEND (Never reset)
204	(CC)	BITSTRING	0	SDB5ADON	"B'00000001" An ABEND 722 has been for this data set (reset if a second ABEND is needed)
205	(CD)	BITSTRING	1	SDBFLG6	Flag byte 6
205	(CD)	BITSTRING	0	SDB6SAPI	"B'10000000" Sysout API data set This serves as a modifier of SDB4PSO
205	(CD)	BITSTRING	0	SDB6GONE	"B'01000000" SAPID has been freed
205	(CD)	BITSTRING	0	SDB6PRT	"B'00100000" Print data set
205	(CD)	BITSTRING	0	SDB6PUN	"B'00010000" Punch data set
206	(CE)	BITSTRING	1	SDBFLG7	Flag byte 7
206	(CE)	BITSTRING	0	SDB7PUT1	"B'10000000" Indicate first put is done in a segment
206	(CE)	BITSTRING	0	SDB7SETP	"B'01000000" SETPRT is required for segmentation
206	(CE)	BITSTRING	0	SDB7SUPD	"B'00100000" Segmentation is suspended
Comment					

The flag bits in SDBFLG8 are used to document why an open failed in the HASP708 message.					

End of Comment					
207	(CF)	BITSTRING	1	SDBFLG8	Flag byte 8
207	(CF)	BITSTRING	0	SDB8TRAK	"B'10000000" Internal \$TRAK error
207	(CF)	BITSTRING	0	SDB8CBIO	"B'01000000" Internal \$CBIO error
207	(CF)	BITSTRING	0	SDB8GASN	"B'00100000" \$GASSIGN error
207	(CF)	BITSTRING	0	SDB8SJFR	"B'00010000" SJFREQ error
207	(CF)	BITSTRING	0	SDB8GETM	"B'00001000" GETMAIN failure
207	(CF)	BITSTRING	0	SDB8GETB	"B'00000100" GETBUF failure
208	(D0)	DBL WORD	8	(0)	Ensure doubleword alignment
208	(D0)		8	SDBOUTLM	SYSOUT OUTLIM= PARAMETER
216	(D8)	SIGNED	4	SDBOPT	EXCESSION OPT SAVE AREA
220	(DC)	SIGNED	4	SDBSGMT	NUMBER OF LOGICAL PAGES PER SEGMENT
224	(E0)	SIGNED	4	SDBSEGID	SEGMENT IDENTIFIER
228	(E4)	SIGNED	4	SDBPGCT	Logical page counter use for segmentation
232	(E8)	ADDRESS	4	SDBECB	ECB to wait on for I/O completion (posted by post exit HAMPSTER)
236	(EC)	SIGNED	4	SDBLOCK	SDB LOCKWORD
236	(EC)	BITSTRING	16	SDBOWNER	Owning TCB token
252	(FC)	BITSTRING	1	SDBCPSWK	Caller PSW byte 1 (key)
253	(FD)	BITSTRING	3		Reserved
256	(100)	SIGNED	4	SDBSRECB	Waiter ECB

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MACRO-DATE = 95/03/03					
End of Comment					
260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	X'4 '	0	SDBENQ	*** 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	SDBENQL	**-SDBENQ"
272	(110)	CHARACTER	12	SDBENQNM	
284	(11C)	ADDRESS	4	SDBUSER1	RESERVED FOR USER
288	(120)	ADDRESS	4	SDBUSER2	RESERVED FOR USER
Comment					
BUFFER POINTERS USED BY HAM (USE DEPENDENT ON TYPE OF I/O REQUEST BEING PROCESSED) SDBUBF - SDBFBF USED FOR SYNCHRONOUS, SINGLE BUFFER I/O					
End of Comment					
292	(124)	ADDRESS	4	SDBUBF	UNPROTECTED BUFFER
296	(128)	ADDRESS	4	SDBPBF	INPUT - PROTECTED BUFFER ADDRESS OUTPUT - PROT BUF OUTPUT CHAIN
300	(12C)	ADDRESS	4		RESERVED FOR FUTURE USE
Comment					
Following four words are used for CDS in HASCHAM. SDBPBFX & SDBFBF requires double word boundary.					
End of Comment					
304	(130)	DBL WORD	8	(0)	Force double word boundary
304	(130)	ADDRESS	4	SDBPBFX	Preliminary PBF chain
308	(134)	ADDRESS	4	SDBPBTM2	Copy of SDBPBTMP for CDS
312	(138)	DBL WORD	8	(0)	Force double word boundary
312	(138)	ADDRESS	4	SDBFBF	CHAIN FOR SVCPUT TO FREE
316	(13C)	ADDRESS	4	SDBPBTMP	Temp getmaind PBF pointer
Comment					
SDBRPL - SDBCBF1 USED FOR ASYNC, TRACK-CELL READS					
End of Comment					
320	(140)	ADDRESS	4	SDBRPL	POINTER TO ACTIVE RPL CHAIN
324	(144)	ADDRESS	4	SDBCBF	I/O BUFFER CHAIN (CIRCULAR)
328	(148)	ADDRESS	4	SDBCBCF	CURRENT BUFFER BEING PROCESSED
332	(14C)	ADDRESS	4	SDBCBF1	1ST BUFR OF T-CELL BEING READ

\$SDB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
SDBGBF - SDBHBF USED FOR GET/PUT UPDATE PROCESSING					
End of Comment					
336	(150)	ADDRESS	4	SDBGBF	PUT-UPD PROTECTED BUFFER CHAIN
340	(154)	ADDRESS	4	SDBHBF	HOLD BUFFER POINTER
344	(158)	SIGNED	4	SDBXCPCCT	PHYSICAL BUFFER I/O COUNT
348	(15C)	SIGNED	4	SDBECB2	ECB for IOS to post when I/O for EXCP is done (with or without errors)
352	(160)	DBL WORD	8	SDBUPRBA	RBA FOR GET/PUT-UPDATE & POINT
360	(168)	SIGNED	4	SDBMTTR	MTTR OF NEXT BLOCK
Comment					
SDBIDAWP - SDBMTTRT USED FOR TRACK CELL READ ONLY					
End of Comment					
364	(16C)	ADDRESS	4	SDBIDAWP	POINTER TO IDAW PACKET START
368	(170)	ADDRESS	4	SDBMTTRT	POINTER TO MTTR/BUFAD TABLE
372	(174)	SIGNED	4	SDBNBLK	NUMBER OF DATA BLOCKS READ
376	(178)	SIGNED	4	SDBBFECB	WAIT-BUF ECB FOR SVCPUTS
380	(17C)	SIGNED	2	SDBPBFCT	PUT - PBF COUNT OUTSTANDING
382	(17E)	SIGNED	2	SDBPBFML	PUT - PBF MAXIMUM COUNT
384	(180)	DBL WORD	8	SDBDWORK	Doubleword work area
392	(188)	DBL WORD	8	SDBDWRK2	Doubleword work area
400	(190)	DBL WORD	8	SDBPSTAB	Time post exit called abnormal channel end appn.
408	(198)		8	SDBDRECD	Logical record count in packed decimal format
416	(1A0)		8	SDBDPAGE	Actual page count in packed decimal format
424	(1A8)		8	SDBDBYTE	Actual byte count in packed decimal format
432	(1B0)		8	SDBDSPIN	Line count at which a JESLOG spin should occur (JESMSG LG/JESYSMSG only)
Comment					
INPUT/OUTPUT BLOCK IN SDB					
End of Comment					
440	(1B8)	DBL WORD	8	SDBIOB (0)	I/O block within SDB
440	(1B8)	BITSTRING	1	SDBIFLG1	IOBFLAG1
441	(1B9)	BITSTRING	1		IOBFLAG2
442	(1BA)	BITSTRING	1	SDBISNS0	IOBSENS0
443	(1BB)	BITSTRING	1	SDBISNS1	IOBSENS1
444	(1BC)	ADDRESS	4	SDBIECB (0)	IOBECBPT
444	(1BC)	BITSTRING	1	SDBICMP	IOBECBCC
445	(1BD)	ADDRESS	3		IOBECBPB
448	(1C0)	BITSTRING	1	SDBISIO	IOBFLAG3
449	(1C1)	BITSTRING	7	SDBICSW (0)	IOBCSW
449	(1C1)	ADDRESS	3	SDBICSWA	IOBCMDA
452	(1C4)	BITSTRING	1	SDBIST1	IOBUSTAT
453	(1C5)	BITSTRING	1	SDBIST2	IOBCSTAT
454	(1C6)	SIGNED	2	SDBILEN	
456	(1C8)	ADDRESS	4	SDBIST	IOBSTART
460	(1CC)	BITSTRING	1	SDBIFLG4 (0)	IOBFLAG4
460	(1CC)	ADDRESS	4	SDBIDCB	IOBCBPT
464	(1D0)	ADDRESS	4	SDBIRS	IOBRESTR
468	(1D4)	ADDRESS	4		
472	(1D8)	DBL WORD	8	SDBIFDAD	IOBSEEK
480	(1E0)	SIGNED	4	(0)	Ensure word alignment
480	(1E0)	BITSTRING	48	SDBIOBE	Reserve space for IOB extension
528	(210)	SIGNED	4	(0)	Ensure word alignment
528	(210)	BITSTRING	48	SDBIEDB	Reserve space for I/O error data block
576	(240)		8	SDBCCW1	SET SECTOR/NO-OP

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
584	(248)		8	SDBCCW2	SEARCH ID EQUAL
592	(250)		8	SDBCCW3	TIC *-8
600	(258)		8	SDBCCW4	READ DATA
600	(258)	X'18	0	SDBCCWPS	**SDBCCW2" LENGTH OF CCW PACKET

Comment

IDAW'S - CURRENTLY SUPPORT UP TO 4K BUFFER SIZE
 NOTE: FOR TRACK-CELL READ THE OFFSET OF THE SDBIDAW FIELDS
 ARE INCORRECT DUE TO MULTIPLE CCW PACKETS. USE SDBIDAWP.

CAUTION!!! New fields should NOT be added after
 the CCW packets because they may be
 overlaid when HASPFSSM constructs
 additional CCWs for track-cell read.

CAUTION!!! A copy of the SDB is imbedded within
 the \$JFW, whose length is approaching
 the maximum limit of 4096 bytes.
 Be sure to investigate before extending
 the SDB.

End of Comment

608	(260)	ADDRESS	4	SDBIDAW1	ADDRESS OF DATA BUFFER
612	(264)	ADDRESS	4	SDBIDAW2	2 K PAGE BNDRY GT THE BUF ADDR
616	(268)	ADDRESS	4	SDBIDAW3	NEXT 2 K PAGE BNDRY
616	(268)	X'C	0	SDBIDAPS	**SDBIDAW1" LENGTH OF IDAW PACKET
616	(268)	BITSTRING	0	SDBIDAFG	"X'04" CHANNEL INDIRECT ADDRESSING FLAG, DUPLICATE OF IDA EQU IN \$CCW
616	(268)	X'6C	0	SDBLNG	**SDB" LENGTH OF DSECT

\$SDB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SDBAIOT	88	90	SDBENQ	104	4
SDBASCEC	C8	40	SDBENQL	10C	C
SDBASIOA	C8	80	SDBENQNM	110	E2C4C24B
SDBASPCE	C8	20	SDBFBF	138	
SDBBFECB	178		SDBFLGAS	C8	
SDBCBCF	144		SDBFLG1	52	
SDBCBCFC	148		SDBFLG2	53	
SDBCBCF1	14C		SDBFLG3	CA	
SDBCCWPS	258	18	SDBFLG4	CB	
SDBCCW1	240		SDBFLG5	CC	
SDBCCW2	248		SDBFLG6	CD	
SDBCCW3	250		SDBFLG7	CE	
SDBCCW4	258		SDBFLG8	CF	
SDBCEGET	C9		SDBGBF	150	
SDBCEGLM	C9	10	SDBHBF	154	
SDBCEGUP	C9	C	SDBHCCT	64	
SDBCEPNT	C9	8	SDBICMP	1BC	
SDBCEPUT	C9	4	SDBICSW	1C1	
SDBCHEND	C9		SDBICSWA	1C1	
SDBCPSWK	FC		SDBID	48	
SDBDBYTE	1A8		SDBIDAFG	268	4
SDBDDNM	54		SDBIDAPS	268	C
SDBDEB	94		SDBIDAWP	16C	
SDBDKEY	B4		SDBIDAW1	260	
SBDPAGE	1A0		SDBIDAW2	264	
SBDRECD	198		SDBIDAW3	268	
SBDSPIN	1B0		SDBIDCB	1CC	
SBDWORK	180		SDBIECB	1BC	
SBDWRK2	188		SDBIEDB	210	
SDBECB	E8		SDBIFDAD	1D8	
SDBECB2	15C		SDBIFLG1	1B8	

\$SDB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SDBIFLG4	1CC		SDB2GLM	53	10
SDBILEN	1C6		SDB2IOE	53	40
SDBIOB	1B8		SDB2MCLS	53	1
SDBIOBE	1E0		SDB2RSV	53	80
SDBIRS	1D0		SDB2XBIN	53	2
SDBISIO	1C0		SDB3BTRC	CA	1
SDBISNS0	1BA		SDB3CEA	CA	4
SDBISNS1	1BB		SDB3LINE	CA	20
SDBIST	1C8		SDB3LOG	CA	40
SDBIST1	1C4		SDB3OUTX	CA	8
SDBIST2	1C5		SDB3PAGE	CA	10
SDBJASID	B8		SDB3TCL	CA	80
SDBJFCBE	70		SDB3VSWT	CA	2
SDBJKEY	B0		SDB4BFWT	CB	1
SDBKEY	B0		SDB4PBAD	CB	2
SDBLENG	50		SDB4PSO	CB	80
SDBLNG	268	6C	SDB4RECV	CB	10
SDBLOCK	EC		SDB4SOUT	CB	20
SDBLOGAD	C4		SDB4SPBR	CB	8
SDBMTTR	168		SDB4SRBO	CB	4
SDBMTTRT	170		SDB4SYIN	CB	40
SDBNBLK	174		SDB5ABND	CC	4
SDBOPNCT	5C		SDB5ADFR	CC	8
SDBOPT	D8		SDB5ADMP	CC	2
SDBOUTLM	D0		SDB5ADON	CC	1
SDBOWNER	EC		SDB5CSPN	CC	80
SDBPBF	128		SDB5INCI	CC	10
SDBPBFCT	17C		SDB5OUTL	CC	40
SDBPBFML	17E		SDB5SBNS	CC	20
SDBPBFX	130		SDB6GONE	CD	40
SDBPBTMP	13C		SDB6PRT	CD	20
SDBPBTM2	134		SDB6PUN	CD	10
SDBPDDB	78		SDB6SAPI	CD	80
SDBPGCT	E4		SDB7PUT1	CE	80
SDBPIOT	74		SDB7SETP	CE	40
SDBPSTAB	190		SDB7SUPD	CE	20
SDBRCID	BC		SDB8CBIO	CF	40
SDBRPL	140		SDB8GASN	CF	20
SDBR14SV	4C		SDB8GETB	CF	4
SDBSAPAL	7C		SDB8GETM	CF	8
SDBSAPID	80		SDB8SJFR	CF	10
SDBSAVE	0		SDB8TRAK	CF	80
SDBSDB	6C				
SDBSEGID	E0				
SDBSGMT	DC				
SDBSJB	68				
SDBSRECB	100				
SDBTAB	88				
SDBTCBM	60				
SDBTRK	A0				
SDBTRKF	98				
SDBTRKL	A8				
SDBUBF	124				
SDBUPRBA	160				
SDBUSER1	11C				
SDBUSER2	120				
SDBXCPCCT	158				
SDB1BFXS	52	40			
SDB1CLOS	52	4			
SDB1FOPN	52	1			
SDB1GET	52	80			
SDB1OUT	52	8			
SDB1PUT	52	20			
SDB2DSRS	53	8			
SDB2EOD	53	20			

\$SFRB Programming Interface information

Programming Interface information

\$SFRB

End of Programming Interface information

\$SFRB Heading Information

Common Name: Scheduler Facility Request Block
Macro ID: \$SFRB
DSECT Name: SFRB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'SFRB'
 Offset: SFRBID-SFRB
 Length: 4

Storage Attributes: Subpool: 231 (ECSA)
 Key: 1
 Residency: Virtual and real storage are anywhere (above or below 16M) in common storage.

Size: SFRHSZE - Header size
 SFRMRSZ - Size of Modify function area

Created by: Scheduler JCL Facility Services (routine SSISFS)
Pointed to by: CCTSFREQ field of the \$HCCT data area
 CCTSFNQ field of the \$HCCT data area
 CCTSFPRQ field of the \$HCCT data area
 SFRBNXT field of the \$SFRB data area
 SFRBLIFO field of the \$SFRB data area

Serialization: USE of separate queues (Request/Pending/Processing).
 Use of CDS to serialize the use of the Request queue.

Function: This macro provides the mapping of the request block used as an interface between the Scheduler Facility Services SSI and PCE Processor.
 This request block will be on one of three queues as noted above under 'POINTED TO BY'.

\$SFRB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SFRB	
0	(0)	X' '	0	SFRBGN	***
0	(0)	CHARACTER	4	SFRBID	Acronym set to 'SFRB'
4	(4)	ADDRESS	1	SFRBVER	Version number of SFRB
4	(4)	BITSTRING	0	SFRBCVR	"X'01" Current version no.of SFRB
5	(5)	BITSTRING	1	SFRBRSV1	Reserved
6	(6)	SIGNED	2	SFRBRSV2	Reserved
8	(8)	SIGNED	4	SFRBNXT	Next SFRB block
12	(C)	SIGNED	4	SFRBLIFO	Next SFRB (in LIFO order)
Comment					
Flag byte input from caller to function rtn Bits defined in function dependent area					
End of Comment					
16	(10)	BITSTRING	1	SFRFFLG	Function Request Flag
Comment					
Indicator byte for \$BLDMSG processing of msg					
End of Comment					
17	(11)	BITSTRING	1	SFRBMSGI	Indicator byte for \$BLDMSG

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Flag byte to footprint processing of block					
End of Comment					
18	(12)	BITSTRING	1	SFRFLG1	Flag Byte
18	(12)	BITSTRING	0	SFR1PROC	"B'10000000" Process Indicator
18	(12)	BITSTRING	0	SFR1SUBT	"B'01000000" Block given to subtask
18	(12)	BITSTRING	0	SFR1ERR	"B'00100000" Error occurred
18	(12)	BITSTRING	0	SFR1JBLK	"B'00010000" Job lock acquired
18	(12)	BITSTRING	0	SFR1JOEB	"B'00001000" JOE made busy
18	(12)	BITSTRING	0	SFR1MSGP	"B'00000100" Awaiting resources msg sent
Comment					
Status byte to indicate status of request					
End of Comment					
19	(13)	BITSTRING	1	SFRSTAT	Status Byte
19	(13)	BITSTRING	0	SFRINVT	"B'10000000" Time stamp is not valid
19	(13)	BITSTRING	0	SFRSFINI	"B'01000000" Processing Complete
19	(13)	BITSTRING	0	SFRSSCOM	"B'00100000" Subtask completed block
20	(14)	SIGNED	4	SFRRC	Return code for subtask
24	(18)	SIGNED	4	SFRCKTKN	Checkpoint token
28	(1C)	ADDRESS	4	SFRSQD	SQD pointer
32	(20)	ADDRESS	4	SFRTOKEN	Address of UTOKEN
36	(24)	CHARACTER	8	SFRRJABI	Requestor jobid
44	(2C)	CHARACTER	8	SFRRJABN	Requestor jobname
52	(34)	CHARACTER	8	SFRTIME (0)	Time Stamp of request
52	(34)	SIGNED	4	SFRCTME	Significant part of time
56	(38)	SIGNED	4	SFRISTM	INSIGNIFICANT PART OF TIME
60	(3C)	CHARACTER	8	SFRFTIM	Time Stamp of GETLOK failure
60	(3C)	X'44	0	SFRHSZE	** -SFRBGN" Header size
Comment					
Specific function request data area begins here					
End of Comment					
60	(3C)	X'44	0	SFRBFOR	*** Functional area origin
Comment					
Specific function request bit definitions for Flag byte SFRFFLG Bit definitions should correspond to input flag SSSFLLG1 in macro IAZSSSF					
End of Comment					
60	(3C)	BITSTRING	0	SFRFDES	"B'10000000" Destination Check Request
Comment					
Modify request data					
End of Comment					
68	(44)	SIGNED	2	SFRMREA	Reason code for Modify rtn
70	(46)	SIGNED	2		Reserved
72	(48)	SIGNED	4	SFRJBNUM	Converted job number
76	(4C)	SIGNED	4	SFRDOP	ODPARM pointer
80	(50)	SIGNED	4	SFRJOEP	JOE pointer

\$SFRB Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
The following area corresponds to modify request area in the SSOB extension IAZSSSF					
End of Comment					
84	(54)	CHARACTER	8	SFRJBNM	JOBNAME
92	(5C)	CHARACTER	8	SFRJBID	JOBID
100	(64)	CHARACTER	8	SFRGRP1	Output group name
108	(6C)	SIGNED	2	SFRGRP1	Output group - first ID
110	(6E)	SIGNED	2	SFRGRP2	Output group - second ID
112	(70)	SIGNED	4	SFRMRSV2	Reserved
116	(74)	CHARACTER	8	SFRCART	CART for WTO responses
124	(7C)	SIGNED	4	SFRCNID	Console ID for WTO responses Output descriptor lists are SWBTU/TU format as required SCHEDULER JCL facility (SJF)
128	(80)	ADDRESS	4	SFRMDAD	Address of Modify list in SWBTU format
132	(84)	ADDRESS	4	SFRERAD	Address of Erase list in TU format
136	(88)	SIGNED	2	SFRMDLN	Length of Modify list(SWBTU)
138	(8A)	SIGNED	2	SFRERLN	Length of Erase list (TU)
144	(90)	DBL WORD	8	(0)	Alignment
144	(90)	X'4C	0	SFRMRSZ	**SFRMOD" Size of modify function area

\$SFRB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SFRBCVR	4	1	SFRRJOBI	24	
SFRBFOR	3C	44	SFRRJOB1	2C	
SFRBGN	0		SFRSFINI	13	40
SFRBID	0	E2C6D9C2	SFRSQD	1C	
SFRBLIFO	C		SFRSSCOM	13	20
SFRBMSGI	11		SFRSTAT	13	
SFRBNXT	8		SFRTIME	34	
SFRBRSV1	5		SFRTOKN	20	
SFRBRSV2	6		SFR1ERR	12	20
SFRBVER	4		SFR1JBLK	12	10
SFRCART	74		SFR1JOEB	12	8
SFRCKTKN	18		SFR1MSGP	12	4
SFRCNID	7C		SFR1PROC	12	80
SFRCTME	34		SFR1SUBT	12	40
SFRERAD	84				
SFRERLN	8A				
SFRFDES	3C	80			
SFRFFLG	10				
SFRFLG1	12				
SFRFTIM	3C				
SFRGRP1	64				
SFRGRP2	6E				
SFRHSZE	3C	44			
SFRINVT	13	80			
SFRISTM	38				
SFRJBID	5C				
SFRJBNM	54				
SFRJBNM	48				
SFRJOEP	50				
SFRMDAD	80				
SFRMDLN	88				
SFRMREA	44				
SFRMRSV2	70				
SFRMRSZ	90	4C			
SFRODP	4C				
SFRRC	14				

\$SFRWORK Programming Interface information

Programming Interface information

\$SFRWORK

End of Programming Interface information

\$SFRWORK Heading Information

Common Name: JES2 Scheduler Services PCE Work Area
Macro ID: \$SFRWORK
DSECT Name: PCE (\$SFRWORK 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 SRWPCEWL 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: \$SFSPCE 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 Scheduler Services Processor and by its support routines and exits. \$SFRWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$SFRWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESFSID in the second byte of field PCEID.

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

\$SFRWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
216	(D8)	BITSTRING	1	SRWFLG1	Processing flag
216	(D8)	BITSTRING	0	SRW1ACTV	"B'10000000" PCE active indicator
216	(D8)	BITSTRING	0	SRW1RCVY	"B'01000000" Recovery situation
216	(D8)	BITSTRING	0	SRW1SNXT	"B'00100000" Use SFRB NXT (FIFO) chain
217	(D9)	BITSTRING	3	SRWRSV1	Reserved for IBM use
220	(DC)	SIGNED	2	SRWREQCT	Count of lost request blks
222	(DE)	SIGNED	2	SRWABEND	Count of abends
222	(DE)	X'3 '	0	SRWLIMIT	"3" Reasonable limit of abends
224	(E0)	SIGNED	4	(0)	
224	(E0)	BITSTRING	16	SRWTQE	Timer Queue Element
240	(F0)	DBL WORD	8	(0)	Alignment
240	(F0)	X'18 '	0	SFRPCEWL	"*-PCEWORK" LENGTH OF SCHED. SERVICE WORK AREA

\$SFRWORK Cross Reference

Name	Hex Offset	Hex Value
SFRPCEWL	F0	18
SRWABEND	DE	
SRWFLG1	D8	
SRWLIMIT	DE	3
SRWREQCT	DC	
SRWRSV1	D9	
SRWTQE	E0	
SRW1ACTV	D8	80
SRW1RCVY	D8	40
SRW1SNXT	D8	20

\$SFSWORK Heading Information

Common Name: - HASP Scheduler Facility Service SSI work area dsect.
Macro ID: \$SFSWORK
DSECT Name: SFSWORK
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'SFSW'
 Offset: SSWID-SFSWORK
 Length: 4

Storage Attributes: Subpool: 229
 Key: 1
 Residency: Virtual and Real storage are anywhere (above or below 16M) in the User address space.

Size: See SSWWLEN
Created by: Scheduler Services SSI
Pointed to by: N/A
Serialization: None
Function: This DSECT provides the work area required by the JES2 Scheduler Facility Service SSI.

\$SFSWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SFSWORK	Scheduler Service Work Area
0	(0)	CHARACTER	4	SSWID	Eyecatcher for SFSWork
4	(4)	SIGNED	4	SSWTOTL	Total length of storage acquired.
Comment					
Area of block addresses used by the routine					
End of Comment					
8	(8)	ADDRESS	4	SSWTRE	Addr of SSI TRE
12	(C)	ADDRESS	4	SSWSFRB	Addr of SFRB
Comment					
Storage needed for token extract					
End of Comment					
16	(10)	ADDRESS	4	SSWWAVE	Addr of the WAVE
20	(14)	ADDRESS	4	SSWTOKN	Addr of the User Token
Comment					
Parameter input for SSI 75					
End of Comment					
24	(18)	ADDRESS	4	SSWSOB70	Addr of SSOB for SSI 70
28	(1C)	ADDRESS	4	SSWSSSF	Addr of SSSF SSOB ext 70
Comment					
Process byte for various processing paths					
End of Comment					
32	(20)	BITSTRING	1	SSWFLG1	Flag byte 1 -Indicators
32	(20)	BITSTRING	0	SSW1EXIT	"B'01000000" Exit given control

\$SFSWORK Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Condition byte used to show errors in processing					
End of Comment					
33	(21)	BITSTRING	1	SSWFLG2	Flag byte 2 -Error flags
33	(21)	BITSTRING	0	SSW2PCED	"B'10000000" PCE is disabled
33	(21)	BITSTRING	0	SSW2JESD	"B'01000000" JES is down
33	(21)	BITSTRING	0	SSW2NOXT	"B'00100000" No Extension exists
33	(21)	BITSTRING	0	SSW2EXTE	"B'00010000" Error in extension
33	(21)	BITSTRING	0	SSW2NOAU	"B'00001000" Token Extract error
33	(21)	BITSTRING	0	SSW2INVF	"B'00000100" Invalid function request
33	(21)	BITSTRING	0	SSW2INVI	"B'00000010" Invalid input to function
33	(21)	BITSTRING	0	SSW2NOST	"B'00000001" No storage indicator
Comment					
Response byte from Exit					
End of Comment					
34	(22)	BITSTRING	1	SSWXPLR	
34	(22)	BITSTRING	0	SSWXCAN	"B'10000000" Exit cancel request
34	(22)	BITSTRING	0	SSWXSRC	"B'01000000" Exit supplied RC/reas codes
34	(22)	BITSTRING	0	SSWANY	"X'FF" Test for any bits on
Comment					
Other goodies					
End of Comment					
35	(23)	BITSTRING	3		Reserved
38	(26)	SIGNED	2	SSWERCD	Processing reason code
40	(28)	SIGNED	4	SSWRC	Processing return code
44	(2C)	SIGNED	4	SSWJBNUM	Converted job number
48	(30)	SIGNED	4	SSWRETR	Return reg save for subrtn
52	(34)	BITSTRING	84	SSWTKMAP	Token area for tokenmap
136	(88)	DBL WORD	8	(0)	Alignment
136	(88)	X'88	0	SSWWLEN	"*-SFSWORK" Length of SSWORK storage

\$SFSWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SSWANY	22	FF	SSW1EXIT	20	40
SSWERCD	26		SSW2EXTE	21	10
SSWFLG1	20		SSW2INVF	21	4
SSWFLG2	21		SSW2INVI	21	2
SSWID	0		SSW2JESD	21	40
SSWJBNUM	2C		SSW2NOAU	21	8
SSWRC	28		SSW2NOST	21	1
SSWRETR	30		SSW2NOXT	21	20
SSWSFRB	C		SSW2PCED	21	80
SSWSOB70	18				
SSWSSF	1C				
SSWTKMAP	34				
SSWTOKN	14				
SSWTOTL	4				
SSWTRE	8				
SSWWAVE	10				
SSWWLEN	88	88			
SSWXCAN	22	80			
SSWXPLR	22				
SSWXSRC	22	40			

\$SIG Heading Information

Common Name: SIG
Macro ID: \$SIG
DSECT Name: SIG
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: "None"
 Offset: N/A
 Length: N/A
Storage Attributes: Subpool: 10
 Key: 1
 Residency: Virtual is any, Real is any in JES2 address space or user address space
Size: See SIGSIZE
Created by: Callers of \$SIGIO
Pointed to by: Parameters passed to \$SIGIO macro
Serialization: No serialization
Function: This is the mapping for record zero (R0) records on SPOOL. The first track of each trackgroup has a signature record placed in the data portion of R0.

\$SIG Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SIG	,
0	(0)	BITSTRING	1	SIGFLAG1	Flags
0	(0)	BITSTRING	0	SIG1UNAL	"B'10000000" Trackgroup has begun unallocation
1	(1)	BITSTRING	3	SIGJBNUM	Job number
4	(4)	SIGNED	4	SIGJBKEY	Job key
4	(4)	X'8	0	SIGLEN	"8" Length of signature record (DASD architected)
8	(8)	ADDRESS	2	(0)	Assembly error if length of fields not 8

\$SIG Map

\$SJB Programming Interface information

Programming Interface information

\$SJB

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

- SJBSCB
- SJBOCT
- SJBPIT
- SJBQUEUE

End of Programming Interface information

\$SJB Heading Information

Common Name: Subsystem Job Block dsect
Macro ID: \$SJB
DSECT Name: SJB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'SJB '
Offset: SJBID-SJB
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 SJBSIZE equate.

Created by: SJBs are created by the \$SJBINIT service. They are built during subsystem-interface (SSI) calls for job selection by-number (for STCs and TSUs), during the first SSI call by an MVS initiator for job selection by-class, during SSI request-jobid calls and during SYSOUT dataset allocation SSI requests for short-term cross-subsystem browse applications. An SJB is also built for each JES2 address space JCL conversion subtask when it runs its first job after JES2 initialization or after an abnormal subtask end. A temporary SJB is built by the \$LOGMSG service when it puts messages into a job's joblog.

Pointed to by:

- The HSBSJB field of the \$HASB data area in CSA points to the first SJB for an address space. The remaining SJBs in the address space are chained off of the SJBSJB field of the \$SJB data area.
- The MVS life-of-job SSIB control block for a job step points to the SJB supporting that job step via the SSIBSUSE field. This connection does not exist for short-term and request-job-id cases.
- The SDBSJB field of the \$SDB data area for each subsystem dataset allocated under an SJB points to the SJB. The SDBs are in the address space's private storage.
- Each SJB has an extension in the address space's private storage, called the SJXB. The SJXBSJBA field of the \$SJXB data area points to the SJB.
- The TRESJBLK field of the \$TRE data area points to the SJB if the TRE represents the MVS task that has acquired the SJB lock of this SJB.
- Several queues of SJBs exist to queue and track executing jobs. Each of these uses the SJBXQCHN field of the \$SJB data area as the chain field. The anchors are in the \$HCCT data area and include CCTJPCLS (pending selection by job class, for batch), CCTJPNUM (pending selection by number, for STCs/TSUs), CCTJXCLS (executing by class), CCTJXNUM (executing by number), CCTJTERM (jobs terminating), CCTJRENQ (jobs terminating for re-execution).
- Other queues of SJBs exist to queue and track miscellaneous requests. These include those with HCCT anchor fields CCTTSCS (requesting TSO CANCEL or STATUS processing), CCTSCPND (pending CANCEL or STATUS), CCTPSOQ (requesting Process SYSOUT, PSO), CCTPSOFF (the FIFO version of CCTPSOQ), and CCTPSPND (pending PSO). These chains use the SJBTCHN chaining field of the \$SJB data area.
- When PSO requests or dataset processing are outstanding for an SJB, the PSOSJB field of the \$PSO data area points to the SJB.
- The DCNVSJBP field of each JES2 address space JCL conversion subtask \$DTECNV data area points to the SJB.
- The PITSJB field of the \$PIT data area points to the batch job SJB being used to manage batch jobs for the initiator represented by the PIT.
- The IOTSJB field of any IOT in memory for the SJB's executing job points back to the SJB.
- The HSUSJB field of the \$HSU data area points to the SJB during a 'HOCSETUP' service routine call for a subsystem dataset.

\$SJB Map

Serialization:

Serialization of the SJBs is done in various ways. An SJB can be locked by a task against activity by any other task in the address space using the \$SJBLOCK service. Many JES2 SSI function routines use this service to hold the SJB lock for the duration of the SSI call. The SJB queues are locked using a mechanism similar to the SJB lock, with the lock words being in the HCCT control block instead of an SJB. This lock is frequently called the Job Communications Queue lock, or JCQ lock, or sometimes the SJB queues lock. The JCQ lock is used between the JES2 main task and the tasks in the job's address space. Various SJB chain and anchor fields are serialized with these two JES2 locks, with the system LOCAL lock, and just by timing dependencies in some cases where appropriate (e.g. when an address space is unexpectedly lost). See the comments in the definition of the dssect and various fields for more information.

Function:

The Subsystem Job Block (SJB) represents a executing unit of work, or 'job', for the JES2 subsystem. It is the main and central JES2 control block for an executing job, and contains the job identifiers, flags defining the job type and status, indications of the type of processing required or being done for the job, locking fields, etc. It is the anchor for the in-storage control blocks such as the JCT for the job, the IOTs and SDBs for subsystem datasets, the PSO and other control blocks for current requests, etc.

The main use of the SJB for the purposes stated above are in the JES2 subsystem interface (SSI) function routines, supporting services for MVS facilities such as the initiator, allocation, and data management. It is in ECSA, and also used by the JES2 main task to track active jobs, process request queues, provide status, and reconnect to executing work during a hot start after an abnormal termination. Communication is done using the SJB queue anchors and chain fields described in the 'pointed to by' section, \$\$POSTs of JES2 by the SSI routines, \$XMPOSTs of the requesting tasks running in the SSI routines by JES2 using the SJBECB field, and serialization provided normally by two JES2-defined locks (see 'serialization').

An SJB normally represents, roughly, the work running under one MVS job step task, in however many MVS tasks there are running at that job step level. This is the case for started task 'jobs' (STCs) and time sharing user 'jobs' (TSUs), running in the top job step in an address space. It is also the usual case for a batch job, running in the second job step in an address space, where the top job step is the batch initiator STC. SJBs are also built to handle other cases where a set of one or more tasks are executing work on the behalf of a normal or special job.

The types of SJBs are: STC/TSU, batch job, request jobid, cross-subsystem browse, and JCL conversion.

\$SJB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SJB	
0	(0)	CHARACTER	4	SJBID	SJB IDENTIFIER
4	(4)	ADDRESS	1	SJBVRSN	CURRENT VERSION IN STORAGE
4	(4)	X'5	0	SJBCURVN	"5" CURRENT VERSION NUMBER
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
6	(6)	BITSTRING	1	SJBFLG1	FIRST FLAG BYTE ---
6	(6)	BITSTRING	0	SJB1PI	"X'80" Stop AND drain the initiator
6	(6)	BITSTRING	0	SJB1SJID	"X'40" SELECT JOB BY ID - SJBJOBID
6	(6)	BITSTRING	0	SJB1CRAL	"X'20" BROWSE CROSS-ALLOCATION SJB
6	(6)	BITSTRING	0	SJB1EJOB	"X'04" HASP-RESTART JOB (\$E JOB)
6	(6)	BITSTRING	0	SJB1SWBU	"X'02" Update the OUTPUT SWB
6	(6)	BITSTRING	0	SJB1WIN	"X'01" WLM managed initiator
7	(7)	BITSTRING	1	SJBFLG2	SECOND FLAG BYTE ---
7	(7)	BITSTRING	0	SJB2PNIT	"X'80" STOP THE INITIATOR
7	(7)	BITSTRING	0	SJB2JNFD	"X'40" JOB-BY NUMBER NOT FOUND
7	(7)	BITSTRING	0	SJB2EOM	"X'20" END-OF-MEMORY DETECTED
7	(7)	BITSTRING	0	SJB2CNCL	"X'10" CANCEL AFTER SWA CREATE
7	(7)	BITSTRING	0	SJB2CONV	"X'08" SJB CREATED FOR CONVERTER
7	(7)	BITSTRING	0	SJB2HOLD	"X'04" HOLD JOB AFTER RE-QUEUE
7	(7)	BITSTRING	0	SJB2JNL	"X'02" JOB IS JOURNALED
7	(7)	BITSTRING	0	SJB2INIT	"X'01" INITIATOR FLAG
8	(8)	ADDRESS	4	SJBSJXB	POINTER TO SJB EXTENSION
12	(C)	ADDRESS	4	SJBWAVE	POINTER TO WAVE ADDRESS
16	(10)	ADDRESS	4	SJBUSER	*** RESERVED FOR USER ***
20	(14)	ADDRESS	4	SJBSSIB	POINTER TO SSIB
24	(18)	ADDRESS	4	SJBSJB	SJB CHAIN FROM CCTHAVT
28	(1C)	ADDRESS	4	SJBSDB	POINTER TO CHAIN OF SDBS
32	(20)	ADDRESS	4	SJBJKEY	HDBDSKEY FOR THIS JOB
36	(24)	ADDRESS	4	SJBJCT	ADDRESS OF JCT FOR JOB
40	(28)	SIGNED	4	SJBJCTRK	JCT TRACK ADDRESS
44	(2C)	ADDRESS	4	SJBTCBP	ADDRESS OF INIT OR STC TCB
48	(30)	BITSTRING	16	SJBTCBT	TCB token for INIT or STC
64	(40)	SIGNED	4	SJBJQOFF	OFFSET OF JQE WITHIN JOB QUEUE
68	(44)	CHARACTER	4	SJBSSNM	SUBSYSTEM ID OF OWNER
72	(48)	ADDRESS	4	SJBIOT	ADR OF FIRST REGULAR IOT
76	(4C)	ADDRESS	4	SJBSPIOT	ADR OF FIRST SPIN IOT
80	(50)	ADDRESS	4	SJBOCT	ADR OF OUTPUT CONTROL TABLE
84	(54)	ADDRESS	4	SJBSJPTR	ADR OF SJF PARAMETER LIST
88	(58)	ADDRESS	4	SJBSWBUF	ADR OF SJF SWB BUFFER
92	(5C)	ADDRESS	4	SJBSECB (0)	STOP-ECB ADR FOR CREATED-ID JOB
92	(5C)	ADDRESS	4	SJBPIT	ADDRESS OF PIT IN HASP

Comment

SJBCKID IS USED BEFORE EXECUTION ONLY
SJBSTQE IS USED DURING EXECUTION

End of Comment

96	(60)	SIGNED	4	SJBCKID	EXECUTION PCE CKPT TOKEN
100	(64)	BITSTRING	1	SJBSTQE	EXECUTION TIMER QUEUE ELEMENT

Comment

THE ESTIMATED COUNT FIELDS MUST BE KEPT TOGETHER AND ARE
MAPPED BY THE EST DSECT GENERATED BY THE \$EST MACRO

End of Comment

112	(70)	SIGNED	4	SJBTIMX (0)	TIME EXCESSION FIELDS
112	(70)	SIGNED	4	SJBTMINT	EST TIME MESSAGE INTERVAL
116	(74)	BITSTRING	1	SJBTIMOP	EXECUTION TIME OPTION
117	(75)	BITSTRING	3		RESERVED
120	(78)	SIGNED	4	SJBXSTIM	TIME ESTIMATE EXCESSION AMNT

\$SJB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
END OF ESTIMATED COUNT FIELDS					
End of Comment					
124	(7C)	SIGNED	4	SJB EOMCC	EOM comp code (ASCBMCC)
128	(80)	SIGNED	4		Reserved
132	(84)	SIGNED	4		Reserved
136	(88)	SIGNED	4		Reserved
140	(8C)	ADDRESS	4	SJBCSCB	ADDRESS OF CSCB
144	(90)	BITSTRING	12	SJBECBL (0)	ECB list for WAIT
144	(90)	ADDRESS	4	SJBECBA	Pointer to SJB's ECB
148	(94)	ADDRESS	4	SJBECBS	Pointer to STOP INIT ECB
152	(98)	ADDRESS	4	SJBECBW	Ptr to WLM STOP INIT ECB
152	(98)	BITSTRING	0	SJBEEND	"X'80" To initialize end of list
160	(A0)	DBL WORD	8	(0)	Insure that SJBASCBP is on doubleword boundary for CDS
160	(A0)	BITSTRING	16	SJBXMPL (0)	\$XMPOST parameter list
160	(A0)	ADDRESS	4	SJBERRET	Pointer to error return
164	(A4)	ADDRESS	4	SJBECBP	POINTER TO SJB'S ECB
168	(A8)	ADDRESS	4	SJBASCBP	POINTER TO RELATED ASCB
172	(AC)	ADDRESS	4	SJBECB	ECB for SSI code and JES2
172	(AC)	X'4	0	SJBPSBD	"4" POST condition code indicating \$PSO not valid
176	(B0)	CHARACTER	4	SJBPATID	EBCDIC init ID (PITPATID)
180	(B4)	BITSTRING	1	SJBPRIO	HASP EXECUTION SELECTION PRTY
181	(B5)	SIGNED	3	SJBFAMILY	Highest family ID used by MOCA IOTs
184	(B8)	SIGNED	2	SJBXQFN1	HASPXEQ FUNCTION INDICATOR
186	(BA)	BITSTRING	1	SJBFLG3	TERMINATION FLAG ONE ---
186	(BA)	BITSTRING	0	SJB3CLS	"X'80" CLOSE ALL SUBSYSTEM DATA SETS
186	(BA)	BITSTRING	0	SJB3FSDB	"X'40" FREE ALL SDBS
186	(BA)	BITSTRING	0	SJB3TERM	"X'20" TERMINATE THE JOB
186	(BA)	BITSTRING	0	SJB3PPOU	"X'10" PURGE PARTIAL OUTPUT
186	(BA)	BITSTRING	0	SJB3NODM	"X'08" Don't allow \$DM; job is terminating
186	(BA)	BITSTRING	0	SJB3CKPT	"X'04" WRITE IOTS, JCT
186	(BA)	BITSTRING	0	SJB3FIOT	"X'02" FREE ALL IOTS
186	(BA)	BITSTRING	0	SJB3FJCT	"X'01" FREE JCT
187	(BB)	BITSTRING	1	SJBFLG4	TERMINATION FLAG TWO ---
187	(BB)	BITSTRING	0	SJB4MEND	"X'80" MSG 'ENDED'
187	(BB)	BITSTRING	0	SJB4MTRM	"X'40" MSG 'TERMINATED'
187	(BB)	BITSTRING	0	SJB4MREQ	"X'20" MSG 'RE-ENQUEUED'
187	(BB)	BITSTRING	0	SJB4MREX	"X'10" MSG 'QUEUED FOR RE-EXECUTION'
187	(BB)	BITSTRING	0	SJB4FSJB	"X'08" FREE THE SJB
187	(BB)	BITSTRING	0	SJB4MRQH	"X'04" MSG 'RE-ENQUEUED AND HELD'
187	(BB)	BITSTRING	0	SJB4OCAN	"X'02" Operator cancelled this SJB
187	(BB)	BITSTRING	0	SJB4TERM	"X'01" BATCH JOB HAS TERMINATED SJB4TERM DIRECTLY INFLUENCES THE CREATION AND DELETION OF THE JSAB
188	(BC)	ADDRESS	4	SJBQUEUE	ADDRESS OF CCTJ QUEUE HEADER
192	(C0)	ADDRESS	4	SJBXQCHN	HASPXEQ CHAINING WORD
196	(C4)	SIGNED	2	SJBINTCT	COUNT OF OPEN INTRDRS
198	(C6)	SIGNED	2		RESERVED
200	(C8)	DBL WORD	8	SJBLOCKH (0)	SJB LOCKING DOUBLEWORD
200	(C8)	ADDRESS	4	SJBTCB	LOCK-HOLDING TCB ADDRESS
204	(CC)	ADDRESS	4	SJBNEXTL	0 - SJB IS UNLOCKED - - SJB LOCKED, NO WAIT CHAIN + - SJB LOCKED, ADR OF WAITER
208	(D0)	DBL WORD	8	SJBLOGME (0)	FOR CDS ON THE NEXT TWO FIELDS
208	(D0)	ADDRESS	4	SJBLOGQ	HASP JOB LOG MESSAGE QUEUE A VALUE of X'7FFFFBAD' shows queueing inhibited
212	(D4)	ADDRESS	4	SJBLOGGO	LOG MESSAGES BEING WRITTEN
216	(D8)	SIGNED	4	SJBS35DC	Number of S35Ds in ECSA
220	(DC)	ADDRESS	4	SJBPSOP	PROCESS SYSOUT CONTROL BLOCK
224	(E0)	CHARACTER	1	SJBJCLAS	HASP JOB CLASS
225	(E1)	BITSTRING	1	SJBLKFG	SERIALIZATION FLAG
225	(E1)	BITSTRING	0	SJBFIRST	"X'80" First CCTJPLS request for an initiator; Only meaningful in batch job SJBs.

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
EQU X'40' Reserved for future use					
End of Comment					
225	(E1)	BITSTRING	0	SJBPU PSP	"X'20" Job may have unprocessed SPIN output
225	(E1)	BITSTRING	0	SJBTKCEL	"X'10" SYSOUT MUST BE TRACKCELLED
225	(E1)	BITSTRING	0	SJBTPST	"X'08" SJB HAS BEEN POSTED TO TERM
225	(E1)	BITSTRING	0	SJBLCKPT	"X'02" PARTIALLY SELECTED \$SJB
225	(E1)	BITSTRING	0	SJBMSWBP	"X'01" NEW PDDB FOR MULTI SWBS
226	(E2)	SIGNED	2	SJBASID	USERS ASID
228	(E4)	BITSTRING	1	SJBFLG5	JOB RELATED FLAG BYTE
Comment					
THE FOLLOWING JOB TYPE FLAGS ARE IDENTICAL WITH THE JOB TYPE FLAGS IN THE JQE (I.E. JQE3JOB, JQE3STC AND JQE3TSU)					
End of Comment					
228	(E4)	BITSTRING	0	SJB5JOB	"B'00000011" BATCH JOB (WHEN BITS ZERO)
228	(E4)	BITSTRING	0	SJB5STC	"B'00000001" FLAG FOR THE STC JOB
228	(E4)	BITSTRING	0	SJB5TSU	"B'00000010" FLAG FOR THE TSU JOB
228	(E4)	BITSTRING	0	SJB5REST	"B'00000100" ALLOW \$EJ RESTART TO XEQ BIT ON INDICATES RESTART=Y
228	(E4)	BITSTRING	0	SJB5SWAC	"B'00001000" SWA CREATED
229	(E5)	BITSTRING	1	SJBFLG6	FLAG BYTE 6
229	(E5)	X'1F	0	SJB6NODA	"\$ODANYWP" NORMAL OUTDISP FROM CAT
230	(E6)	BITSTRING	1	SJBFLG7	FLAG BYTE 7
230	(E6)	X'1F	0	SJB7AODA	"\$ODANYWP" ABNORMAL OUTDISP FROM CAT
231	(E7)	BITSTRING	1	SJBFLGC	Flag Byte SERIALIZATION: NONE
231	(E7)	BITSTRING	0	SJBCARM	"B'10000000" Notify ARM of job term
232	(E8)	BITSTRING	1	SJBSBCNT	Number of data sets opened for spool browse (count never decremented)
233	(E9)	BITSTRING	1	SJBFLGD	Flags Serialized via compare and swap
233	(E9)	BITSTRING	0	SJBDSAPI	"B'10000000" Job has at least 1 SAPID
233	(E9)	BITSTRING	0	SJBDJWEL	"B'01000000" Appl hold JWEL created
233	(E9)	BITSTRING	0	SJBDUNSP	"B'00100000" IOT(s) must be unspun
233	(E9)	BITSTRING	0	SJBDWIRB	"B'00010000" SRB/IRB scheduled for S35D dequeuing
233	(E9)	BITSTRING	0	SJBDMDEQ	"B'00001000" JES2 main task dequeued the SJB under abnormal conditions
234	(EA)	SIGNED	2		Reserved
236	(EC)	SIGNED	4	SJBJBNUM	Binary job number
240	(F0)	CHARACTER	8	SJBJOBID	JOB IDENTIFIER - EBCDIC, NUMERIC
248	(F8)	CHARACTER	8	SJBJOBNM	JOBNAME FROM JOB CARD
256	(100)	CHARACTER	8	SJBUSRID	USERID FROM JOB CARD
264	(108)	BITSTRING	8	SJBASCBT	Address space token
272	(110)	SIGNED	4	SJBFLOW (0)	FLOW BYTES FOR ABNORMAL PROCESSING
272	(110)	BITSTRING	1	SJBTFLOW	SJB HAS BEEN ON QUEUE INDICATOR
273	(111)	BITSTRING	1	SJBTFFG	TSO PROCESSING FLOW
273	(111)	BITSTRING	0	SJBTFFGM	"X'80" ECB STATUS MEANINGFUL
273	(111)	BITSTRING	0	SJBTFFGG	"X'40" PSO GOTTEN THIS ENTRY TO PSO
273	(111)	BITSTRING	0	SJBTFFGP	"X'20" PSO PURGE REQUESTED
273	(111)	BITSTRING	0	SJBTFFGC	"X'10" CANCEL/STATUS EOT FUNCTION GOING
273	(111)	BITSTRING	0	SJBTFFGX	"X'08" PSO XWTR WAIT FOR JOT POST
273	(111)	BITSTRING	0	SJBTFFGJ	"X'04" PSO WAIT FOR JOT POST
273	(111)	X'C	0	SJBTFFGW	"SJBTFFGJ+SJBTFFGX" PSO WAITING FOR JOT PROCESSING
274	(112)	BITSTRING	1	SJBFLOWX	RESERVED for Compare & Swap
275	(113)	BITSTRING	1	SJBFLOWY	RESERVED for Compare & Swap
276	(114)	BITSTRING	1	SJBFLG8	Second excession limit flgs
276	(114)	BITSTRING	0	SJB8LJLC	"X'80" Lines JCL Limit is Cancel
276	(114)	BITSTRING	0	SJB8LJLD	"X'40" Lines JCL Limit is Dump
276	(114)	BITSTRING	0	SJB8LJLW	"X'20" Lines JCL Limit is Warning

\$SJB Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
EQU X'10' RESERVED for future use					
End of Comment					
276	(114)	BITSTRING	0	SJB8PJLC	"X'08" Pages JCL Limit is Cancel
276	(114)	BITSTRING	0	SJB8PJLD	"X'04" Pages JCL Limit is Dump
276	(114)	BITSTRING	0	SJB8PJLW	"X'02" Pages JCL Limit is Warning
Comment					
EQU X'01' RESERVED for future use					
End of Comment					
277	(115)	BITSTRING	1	SJBFLG9	First excession limit flags
277	(115)	BITSTRING	0	SJB9BJLC	"X'80" Bytes JCL Limit is Cancel
277	(115)	BITSTRING	0	SJB9BJLD	"X'40" Bytes JCL Limit is Dump
277	(115)	BITSTRING	0	SJB9BJLW	"X'20" Bytes JCL Limit is Warning
Comment					
EQU X'10' RESERVED for future use					
End of Comment					
277	(115)	BITSTRING	0	SJB9CJLC	"X'08" Cards JCL Limit is Cancel
277	(115)	BITSTRING	0	SJB9CJLD	"X'04" Cards JCL Limit is Dump
277	(115)	BITSTRING	0	SJB9CJLW	"X'02" Cards JCL Limit is Warning
Comment					
EQU X'01' RESERVED for future use					
End of Comment					
278	(116)	BITSTRING	1	SJBFLGA	APPC flag byte
278	(116)	BITSTRING	0	SJBAFALL	"X'80" First allocation processing
278	(116)	BITSTRING	0	SJBATP	"X'40" Transaction Program
278	(116)	BITSTRING	0	SJBAPROT	"X'20" Job is Protected
278	(116)	BITSTRING	0	SJBASPOT	"X'10" Spin output produced
278	(116)	BITSTRING	0	SJBASTIN	"X'08" STOP initiator
278	(116)	BITSTRING	0	SJBATI	"X'04" Transaction Initiator
278	(116)	BITSTRING	0	SJBAWSTP	"X'02" WLM posted initiator
279	(117)	BITSTRING	1	SJBFLGB	Yet another flag byte
279	(117)	BITSTRING	0	SJBBRJI	"X'80" Request job id flag
279	(117)	BITSTRING	0	SJBBSYSL	"X'40" SYSLOG flag
279	(117)	BITSTRING	0	SJBBSYSA	"X'20" System address space
279	(117)	BITSTRING	0	SJBBSPIN	"X'10" Joblog is spinnable
279	(117)	BITSTRING	0	SJBBJOBL	"X'08" Joblog is to be opened for request jobid caller
280	(118)	ADDRESS	4	SJBTCHN	TSU CHAIN FIELD
288	(120)	DBL WORD	8	SJDBLWK	DOUBLEWORD WORKAREA #1
296	(128)	DBL WORD	8	SJDBLW1	DOUBLEWORD WORKAREA #2
304	(130)	DBL WORD	8	SJBSSIWK (0)	SSI ROUTINE WORK AREA
Comment					
TSO CANCEL/STATUS SERVICE FIELDS					
End of Comment					
304	(130)	SIGNED	4	SJBTAREA	WORK AREA GOTTEN
308	(134)	CHARACTER	8	SJBTJOBN	JOB NAME
316	(13C)	SIGNED	4	SJBTJOBI	JOB ID OR ZERO (BINARY FORM)
320	(140)	SIGNED	2	SJBTDIMP	SIZE OF EXTENSION
322	(142)	SIGNED	2	SJBTDIMR	SIZE USED OR REQUIRED
324	(144)	SIGNED	2	SJBTFUNC	REQUESTED FUNCTION

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
326	(146)	SIGNED	2	SJBTRETB	SSOBRETN CODE
328	(148)	SIGNED	2	SJBTRETR	R15 RETURN CODE
330	(14A)	CHARACTER	1	SJBTFLGS	FLAGS FROM SSOB
331	(14B)	CHARACTER	1	SJBTULEN	USER ID LENGTH

Comment

Job Select SSI processing fields

End of Comment

304	(130)	CHARACTER	8	SJBWSCN	WLM Service class name
312	(138)	BITSTRING	4	SJBWSC TK	WLM Service class token
316	(13C)	BITSTRING	1	SJBWFLG1	WLM Flags
316	(13C)	BITSTRING	0	SJBW1DMD	"B'10000000" Demand select initiator
316	(13C)	BITSTRING	0	SJBW1SCS	"B'01000000" Service class set via cmd
316	(13C)	BITSTRING	0	SJBW1\$SJ	"B'00100000" Job started via \$\$ J cmd
317	(13D)	BITSTRING	1	SJBWPRIO	Jobs current priority
318	(13E)	BITSTRING	2		Reserved
320	(140)	BITSTRING	8	SJBWDBJI (0)	Demand job's identifier --+
320	(140)	BITSTRING	4	SJBWDBJN	Job number I
324	(144)	BITSTRING	4	SJBWDBJK	Job key --+
328	(148)	BITSTRING	16	SJBSCENV	WLM Scheduling environment
344	(158)	BITSTRING	4	SJBSRMTK	SRM token (from IWMCLSFY)
348	(15C)	BITSTRING	4	SJBARRIV	Job arrival time
352	(160)	BITSTRING	8	SJBRHLD	Duration job was ineligible for selection due to a hold
360	(168)	BITSTRING	8	SJBRRSC	Duration job was ineligible for selection due to unsatisfied resource requirements.
368	(170)	BITSTRING	8	SJBRTOC	Duration job was in conversion
376	(178)	CHARACTER	1	SJBTOKEN	SECURITY TOKEN WORK AREA

Comment

 The following fields contain the current excession limits (in packed decimal format) for a job. When the job's output reaches one of these limits, message \$HASP375 will be issued and a new limit is generated by adding whether a default or exit9-supplied increment amount.

End of Comment

456	(1C8)	DBL WORD	8	(0)	Ensure doubleword alignment
456	(1C8)		8	SJBDELIN	Line excession limit
464	(1D0)		8	SJBDEPUN	Punch (card) excess. limit
472	(1D8)		8	SJBDEPAG	Page excession limit
480	(1E0)		8	SJBDEBYT	Byte excession limit
488	(1E8)	DBL WORD	8	(0)	ENSURE SIZE FULLWORD MULT
488	(1E8)	X'E8	0	SJBEND	*** END OF SJB
488	(1E8)	X'E8	0	SJBSIZE	**_SJB" SIZE OF SJB CONTROL BLOCK

\$SJB Cross Reference

\$SJB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SJBAFALL	116	80	SJBJCLAS	E0	
SJBAPROT	116	20	SJBJCT	24	
SJBARRIV	15C		SJBJCTRK	28	
SJBASCBP	A8		SJBJKEY	20	
SJBASCBT	108		SJBJOBID	F0	
SJBASID	E2		SJBJOBNM	F8	
SJBASPOT	116	10	SJBJQOFF	40	
SJBASTIN	116	8	SJBLCKPT	E1	2
SJBATI	116	4	SJBLKFG	E1	
SJBATP	116	40	SJBLOCKH	C8	
SJBAWSTP	116	2	SJBLOGGO	D4	
SJBBJOB	117	8	SJBLOGME	D0	
SJBBRJI	117	80	SJBLOGQ	D0	
SJBBSPIN	117	10	SJBMSWBP	E1	1
SJBBSYSA	117	20	SJBNEXTL	CC	
SJBBSYSL	117	40	SJBOCT	50	
SJBCARMI	E7	80	SJBPATID	B0	
SJBACKID	60		SJBPIT	5C	
SJBCSCB	8C		SJBPRIO	B4	
SJBCURVN	4	5	SJBPSBD	AC	4
SJBDBLWK	120		SJBPSOP	DC	
SJBDBLW1	128		SJBPUPSP	E1	20
SJBDEBYT	1E0		SJBQUEUE	BC	
SJBDELIN	1C8		SJBRHLD	160	
SJBDEPAG	1D8		SJBRRSC	168	
SJBDEPUN	1D0		SJBRTOC	170	
SJBDJWEL	E9	40	SJBSCBNT	E8	
SJBDMDEQ	E9	8	SJBSCENV	148	
SJBDSAPI	E9	80	SJBSDDB	1C	
SJBDUNSP	E9	20	SJBSECB	5C	
SJBDWIRB	E9	10	SJBSSIZE	1E8	E8
SJBECB	AC		SJBSJB	18	
SJBECBA	90		SJBSJPTR	54	
SJBECBL	90		SJBSJXB	8	
SJBECBP	A4		SJBSPLOT	4C	
SJBECBS	94		SJBSRMTK	158	
SJBECBW	98		SJBSSIB	14	
SJBEEND	98	80	SJBSSIWK	130	
SJBEND	1E8	E8	SJBSSNM	44	
SJBEOMCC	7C		SJBSTQE	64	
SJBERRRET	A0		SJBSWBUF	58	
SJBFAMILY	B5		SJBS35DC	D8	
SJBFIRST	E1	80	SJBTAREA	130	
SJBFLGA	116		SJBTCB	C8	
SJBFLGB	117		SJBTCBP	2C	
SJBFLGC	E7		SJBTCBT	30	
SJBFLGD	E9		SJBTCHN	118	
SJBFLG1	6		SJBTDIMP	140	
SJBFLG2	7		SJBTDIMR	142	
SJBFLG3	BA		SJBTFFG	111	
SJBFLG4	BB		SJBTFFGC	111	10
SJBFLG5	E4		SJBTFFGG	111	40
SJBFLG6	E5		SJBTFFGJ	111	4
SJBFLG7	E6		SJBTFFGM	111	80
SJBFLG8	114		SJBTFFGP	111	20
SJBFLG9	115		SJBTFFGW	111	C
SJBFLOW	110		SJBTFFGX	111	8
SJBFLOWX	112		SJBTFLGS	14A	
SJBFLOWY	113		SJBTFLOW	110	
SJBID	0		SJBTFUNC	144	
SJBINTCT	C4		SJBTIMOP	74	
SJBIOT	48		SJBTIMX	70	
SJBJBNUM	EC		SJBTJOBI	13C	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SJBTJOB	134		SJB8LJLW	114	20
SJBTKCEL	E1	10	SJB8PJLC	114	8
SJBTMINT	70		SJB8PJLD	114	4
SJBTKEN	178		SJB8PJLW	114	2
SJBTPST	E1	8	SJB9BJLC	115	80
SJBTRETB	146		SJB9BJLD	115	40
SJBTRETR	148		SJB9BJLW	115	20
SJBTULEN	14B		SJB9CJLC	115	8
SJBUSER	10		SJB9CJLD	115	4
SJBUSRID	100		SJB9CJLW	115	2
SJBVRSN	4				
SJBWAVE	C				
SJBWDBJI	140				
SJBWDBJK	144				
SJBWDBJN	140				
SJBWFLG1	13C				
SJBWPRIO	13D				
SJBWSCN	130				
SJBWSCTK	138				
SJBW1\$SJ	13C	20			
SJBW1DMD	13C	80			
SJBW1SCS	13C	40			
SJBXMPL	A0				
SJBXQCHN	C0				
SJBXQFN1	B8				
SJBXSTIM	78				
SJB1CRAL	6	20			
SJB1EJOB	6	4			
SJB1PI	6	80			
SJB1SJID	6	40			
SJB1SWBU	6	2			
SJB1WIN	6	1			
SJB2CNCL	7	10			
SJB2CONV	7	8			
SJB2EOM	7	20			
SJB2HOLD	7	4			
SJB2INIT	7	1			
SJB2JNFD	7	40			
SJB2JNL	7	2			
SJB2PNIT	7	80			
SJB3CKPT	BA	4			
SJB3CLS	BA	80			
SJB3FIOT	BA	2			
SJB3FJCT	BA	1			
SJB3FSDB	BA	40			
SJB3NODM	BA	8			
SJB3PPOU	BA	10			
SJB3TERM	BA	20			
SJB4FSJB	BB	8			
SJB4MEND	BB	80			
SJB4MREQ	BB	20			
SJB4MREX	BB	10			
SJB4MRQH	BB	4			
SJB4MTRM	BB	40			
SJB4OCAN	BB	2			
SJB4TERM	BB	1			
SJB5JOB	E4	3			
SJB5REST	E4	4			
SJB5STC	E4	1			
SJB5SWAC	E4	8			
SJB5TSU	E4	2			
SJB6NODA	E5	1F			
SJB7AODA	E6	1F			
SJB8LJLC	114	80			
SJB8LJLD	114	40			

\$\$SJOB Programming Interface information

Programming Interface information

\$\$SJOB

End of Programming Interface information

\$SJIOB Heading Information

Common Name: Subsystem Job I/O Buffer
Macro ID: \$SJIOB
DSECT Name: SJIOB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: SJIO
 Offset: SJIOBID-SJIOB
 Length: L'SJIOBID

Storage Attributes: Subpool: 230
 Key: 1
 Residency: Virtual - Below (contains IOB) Real - Anywhere

Size: See SJIOBSZE

Created by: SJBINIT/SJIOBINT

Pointed to by: SJXBPIOB (for permanent SJIOBs)
 A register (for temporary SJIOBs)

Serialization: None

Function: The \$SJIOB contains the I/O fields needed in the user or subtask environments.
 The SJIOB exist in two forms defined as permanent and temporary. The permanent SJIOB is pointed to from the SJXB. whereas, the temporary SJIOB is anchored in a register. The SJIOB contains the IOB and ECB used by the CPIO routine.

\$SJIOB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SJIOB	
0	(0)	CHARACTER	4	SJIOBID	SJIOB IDENTIFIER
4	(4)	BITSTRING	1	SJIFLAG2	
4	(4)	BITSTRING	0	SJI2TEMP	"B'10000000" TEMPORARY SJIOB
4	(4)	BITSTRING	0	SJI2USE	"B'01000000" SJIOB in use
5	(5)	BITSTRING	1		RESERVED
6	(6)	BITSTRING	1	SJICBFG1	Copy of CPIO flag 1
7	(7)	BITSTRING	1	SJICBFG2	Copy of CPIO flag 2
8	(8)	ADDRESS	4	SJIOSJXB	ADDRESS OF SJXB
12	(C)	SIGNED	4	SJIMTTR	MTTR for I/O
16	(10)	SIGNED	4	SJIJBMSK	Exit job mask
20	(14)	SIGNED	4	SJIKEY	Job key for data area
24	(18)	CHARACTER	4	SJIVERID	Control block verify id
28	(1C)	SIGNED	4	SJIECB	ECB whose addr is in IOB
32	(20)	BITSTRING	0	SJIOB (0)	IOB FOR JOB CONTROL BLOCKS
32	(20)	BITSTRING	1	SJIIFLG1	IOB - FLAG BYTE
33	(21)	BITSTRING	1		
34	(22)	BITSTRING	1	SJIISNS0	IOB - FIRST SENSE BYTE
35	(23)	BITSTRING	1	SJIISNS1	IOB - SECOND SENSE BYTE
36	(24)	ADDRESS	4	SJIIECB (0)	IOB - EVENT CNTRL BLK ADR
36	(24)	BITSTRING	1	SJIICMP	IOB - COMPLETION CODE
37	(25)	ADDRESS	3	SJIIECBP	IOB - ECB POINTER (SJBECBP)
40	(28)	BITSTRING	1	SJII SIO	IOB - SIO CONDITION CODE
41	(29)	BITSTRING	7	SJIICSW (0)	IOB - CHANNEL STATUS WORD
41	(29)	ADDRESS	3	SJIICSWA	IOB - CSW ADDRESS PORTION
44	(2C)	BITSTRING	1	SJII ST0	IOB - FIRST STATUS BYTE
45	(2D)	BITSTRING	1	SJII ST1	IOB - SECOND STATUS BYTE
46	(2E)	SIGNED	2	SJII LEN	IOB - RESIDUAL LENGTH
48	(30)	ADDRESS	4	SJII ST	IOB - CHANNEL PROGRAM ADD
52	(34)	BITSTRING	1	SJII FLG4 (0)	IOB - Flag byte

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
52	(34)	ADDRESS	4	SJIIDCB	IOB - DCB ADDRESS
56	(38)	ADDRESS	4	SJIIRS	IOB - RESTART CHAN PGM ADR
60	(3C)	ADDRESS	4		
64	(40)	DBL WORD	8	SJIIFDAD	IOB - FULL DISK ADDRESS
72	(48)	SIGNED	4	(0)	Ensure word alignment
72	(48)	BITSTRING	48	SJIIOBE	Reserve space for IOB extension
120	(78)	SIGNED	4	(0)	Ensure word alignment
120	(78)	BITSTRING	48	SJIIEDB	Reserve space for I/O error data block
168	(A8)		8	SJICCW1	SET SECTOR/NO-OP
176	(B0)		8	SJICCW2	SEARCH ID EQUAL
184	(B8)		8	SJICCW3	TIC *-8
192	(C0)		8	SJICCW4	WRITE/READ DATA

Comment

IDAW'S - CURRENTLY SUPPORT UP TO 4K CONTROL BLOCK SIZE

End of Comment

200	(C8)	ADDRESS	4	SJIIDAW1	ADDRESS OF CNTRL BLK BUFFER
204	(CC)	ADDRESS	4	SJIIDAW2	2K PAGE BNDRY GT THE BUFR ADDR
208	(D0)	ADDRESS	4	SJIIDAW3	NEXT 2K PAGE BOUNDARY

Comment

Provide data area for signature record I/O

End of Comment

200	(C8)	BITSTRING	8	SJISIG	Data read/written here
216	(D8)	DBL WORD	8	(0)	Ensure alignment
216	(D8)	X'D8	0	SJIOBSZE	**-'SJIOB' Size of SJIOB

\$SJIOB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SJICBFG1	6		SJIISNS1	23	
SJICBFG2	7		SJIIST	30	
SJICCW1	A8		SJIIST0	2C	
SJICCW2	B0		SJIIST1	2D	
SJICCW3	B8		SJIJBMSK	10	
SJICCW4	C0		SJIKEY	14	
SJIECB	1C		SJIMTTR	C	
SJIFLAG2	4		SJIOBID	0	
SJIICMP	24		SJIOBSZE	D8	D8
SJIICSW	29		SJIOSJXB	8	
SJIICSWA	29		SJISIG	C8	
SJIIDAW1	C8		SJIVERID	18	
SJIIDAW2	CC		SJI2TEMP	4	80
SJIIDAW3	D0		SJI2USE	4	40
SJIIDCB	34				
SJIIECB	24				
SJIIECBP	25				
SJIIEDB	78				
SJIIFDAD	40				
SJIIFLG1	20				
SJIIFLG4	34				
SJIILEN	2E				
SJIIOB	20				
SJIIOBE	48				
SJIIRS	38				
SJIISIO	28				
SJIISNS0	22				

\$SJIOB Cross Reference

\$SJXB Programming Interface information

Programming Interface information

\$SJXB

End of Programming Interface information

\$SJBX Heading Information

Common Name: Subsystem Job Block Extension
Macro ID: \$SJBX
DSECT Name: SJXB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'SJXB'
 Offset: SJXBID-SJXB
 Length: 4

Storage Attributes: Subpool: 230
 Key: 1
 Residency: Virtual and real storage are anywhere (above or below 16M) in the address space where the job that the \$SJBX represents is active.

Size: See SJXBSIZE
Created by: Created by the \$SJBINIT service when the job enters execution.
Pointed to by: SJBSJBX field of the \$SJB data area
Serialization: Serialized via \$SJBLOCK service.
Function: The SJB and SJXB are the main control blocks representing a job in the subsystem. The SJXB contains the information that is needed only in the user address space. The SJB contains the information that needs to be shared between the user and the subsystem address spaces.

The SJXB contains work area fields used by SSI functions and a pointer to the SJB. It also has a pointer to the SJJOB which contains the IOB and ECB used by \$CBIO for control block I/O in addition to the ACB and DEB control blocks for the subsystem data sets. It also contains the RPL control block for the job log data set.

\$SJBX Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SJXB	
0	(0)	CHARACTER	4	SJXBID	SJXB IDENTIFIER
4	(4)	ADDRESS	4	SJXBSJBA	ADDRESS OF SJB
8	(8)	SIGNED	4	SJXPBFLM	LIMIT ON NUMBER OF EXTRA PBUF ALLOWED IN THIS ADDR SPACE
12	(C)	ADDRESS	4	SJXBPIOB	ADDRESS OF SJJOB
16	(10)	ADDRESS	4	SJXGGST	ADDRESS OF GROUPING STRINGS OBJECT

Comment

THE FIELDS FROM SJXCLBEG TO SJXCLEND ARE CLEARED OUT IN HASCJBST EVERYTIME THE SJXB IS REUSED FOR ANOTHER JOB.

End of Comment

20	(14)	ADDRESS	4	SJXCLBEG (0)	START OF CLEARED SECTION
24	(18)	DBL WORD	8	SJXBUSAV (0)	SAVE AREA FOR UNALLOCATION
24	(18)	ADDRESS	4	SJXBSIOT	NEXT IOT ADDR SAVE AREA
28	(1C)	BITSTRING	1	SJXBSPDB	PDBFLAG1 SAVE AREA
29	(1D)	BITSTRING	1	SJXFLAG1	FLAGS - Flag needs to be serialized by OIL & NIL
29	(1D)	BITSTRING	0	SJX1PLHD	"B'10000000" SJXRIOT POINTS TO PLACEHOLDER
29	(1D)	BITSTRING	0	SJX1JPGM	"B'01000000" Job has page mode records
30	(1E)	BITSTRING	1	SJXLOGD	Copy of JCTJLOGD when first JESLOG extension created
31	(1F)	BITSTRING	1	SJXFLAG2	Flags - serialized via Compare and Swap
31	(1F)	BITSTRING	0	SJX2TITL	"B'10000000" Joblog title line written

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
31	(1F)	BITSTRING	0	SJX2SPIN	"B'01000000" Operator has requested JESLOG spin
31	(1F)	BITSTRING	0	SJX2SPIP	"B'00100000" JESLOG spin in progress
31	(1F)	BITSTRING	0	SJX2SUPP	"B'00010000" JESLOG spinning suppressed
31	(1F)	BITSTRING	0	SJX2DEFR	"B'00001000" JESLOG spinning deferred

Comment

START OF SPECIFICATIONS

01 DESCRIPTIVE NAME: JES log control

02 ACRONYM: \$JESLOG

01 MACRO NAME: \$JESLOG

01 DSECT NAME: JLG

01 LABEL PREFIX: JLG

01 COMPONENT ID: JES2 (SC1BH)

01 EXTERNAL CLASSIFICATION: PSPI

01 END OF EXTERNAL CLASSIFICATION:

01 EYE-CATCHER: "None"

02 OFFSET: N/A

02 LENGTH: N/A

01 STORAGE ATTRIBUTES:

02 SUBPOOL: n/a

02 KEY: n/a

02 RESIDENCY:

This block is included in JCTs, SJXBs, CATs and CNVWORK. See the description of those "hosting" blocks for storage attributes.

01 SIZE:

See JLGLEN

01 CREATED BY:

See "hosting" control blocks

01 POINTED TO BY:

No pointers

01 SERIALIZATION:

None required

01 FUNCTION:

The JESLOG describes how the spinning of JESLOG (JESYSMG and JESJOB LG) is to be supported.

01 METHOD OF ACCESS:

02 ASM:

Specify \$JESLOG as a positional operand on a \$MODULE macro instruction to cause this mapping to be generated. A USING of the following form is used: USING JLG,xxxx where xxxx is the label within the "hosting" block where the JESLOG mapping begins. For example when referencing the JESLOG within the JCT, code USING JLG,JCTJLOG

02 PL/X:

This mapping is not available for compilations.

01 USED BY:

Spin processing for the the two JESLOG data sets use the information for their decisions.

01 DELETED BY:

See "hosting" blocks.

01 FREQUENCY:

See "hosting" blocks

01 RESTRICTIONS:

None

END OF SPECIFICATIONS

01 CHANGE ACTIVITY:

\$Z02LLRJ=LRJOB HJE7705 001101 J_K2: Long running jobs

\$Z02P049=LRJ HJE7705 001218 J_K2: RJI SSOB JESLOG Support

01 A000000-999999 CREATED for JES2 OS/390 Release 12

End of Comment

\$SJXB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
32	(20)	BITSTRING	6	SJXJLOG	JES log control
38	(26)	BITSTRING	1	SJXOFLG2	Copy of SJXFLAG2 when first spin JOBLOG created
40	(28)	SIGNED	4	SJXSPNUM	NUMBER OF SPIN IOTS UNALLOCATED AND NOT YET REUSED
44	(2C)	ADDRESS	4	SJXRIOT	ADDRESS OF LAST NORMAL IOT USED IN REUSE SEARCH
48	(30)	ADDRESS	4	SJXRPddb	OFFSET OF LAST NULL PLACEHOLDER Pddb USED IN REUSE SEARCH
52	(34)	SIGNED	4	SJXJLSPN	High order word of TOD clock when JESLOG should be spun (0 = not timed)
56	(38)	SIGNED	4	SJXJLKEY	Current data set key for Job Log (JESMSG LG)
60	(3C)	SIGNED	4	SJXSMKEY	Current data set key for Sys Messages (JESYSMSG)

Comment

THE ESTIMATED COUNT FIELDS MUST BE KEPT TOGETHER AND ARE MAPPED BY THE EST DSECT GENERATED BY THE \$EST MACRO

End of Comment

64	(40)	SIGNED	4	SJXLINES (0)	LINE EXCESSION FIELDS
64	(40)	SIGNED	4	SJXLNINT	EST LINE MESSAGE INTERVAL
68	(44)	BITSTRING	1	SJXLNOP	EXECUTION LINE OPTION
69	(45)	BITSTRING	3		RESERVED FOR FUTURE USE
72	(48)	SIGNED	4	SJXPUNCH (0)	PUNCH EXCESSION FIELDS
72	(48)	SIGNED	4	SJXPUIINT	EST CARD MESSAGE INTERVAL
76	(4C)	BITSTRING	1	SJXPUNOP	EXECUTION CARD OPTION
77	(4D)	BITSTRING	3		RESERVED FOR FUTURE USE
80	(50)	SIGNED	4	SJXPAGES (0)	PAGES EXCESSION FIELDS
80	(50)	SIGNED	4	SJXPGINT	EST PAGES MESSAGE INTERVAL
84	(54)	BITSTRING	1	SJXPGOP	EXECUTION PAGES OPTION
85	(55)	BITSTRING	3		RESERVED FOR FUTURE USE
88	(58)	SIGNED	4	SJXBYTES (0)	BYTES EXCESSION FIELDS
88	(58)	SIGNED	4	SJXBYINT	EST BYTES MESSAGE INTERVAL
92	(5C)	BITSTRING	1	SJXBYTOP	EXECUTION BYTE OPTION
93	(5D)	BITSTRING	3		RESERVED FOR FUTURE USE

Comment

END OF THE ESTIMATED COUNT FIELDS
The following area, to SJXUSER, should be used for any new fields retrieved using the SJFACC facility and module HASPSJFA if any are added in the future.

End of Comment

96	(60)	CHARACTER	4	SJXACCT	Account number
100	(64)	CHARACTER	1	SJXMSGCL	MSGCLASS value for TPs only
101	(65)	BITSTRING	3		Reserved for future use

Comment

FIELD RESERVED FOR THE USER

End of Comment

104	(68)	ADDRESS	4	SJXUSER	*** RESERVED FOR USER ***
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Comment

PARAMETER LIST FOR THE EXTERNAL WRITER. A COPY OF THE PARAMETER LIST MUST BE KEPT BELOW THE LINE SINCE THE EXTERNAL WRITER CAN NOT ACCESS DATA ABOVE THE LINE.

End of Comment

108	(6C)	SIGNED	4	SJXXWPL (0)	EXTERNAL WRITER PARAMETER LIST
108	(6C)	SIGNED	4	SJXXWECB	ECB FOR THE EXTERNAL WRITER
112	(70)	BITSTRING	4	SJXRDRON	TIME ON INPUT PROCESSOR

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
116	(74)	BITSTRING	4	SJXRDTON	DATE ON INPUT PROCESSOR
120	(78)	CHARACTER	8	SJXUSEID	JMR installation data field

Comment

END OF EXTERNAL WRITER PARAMETER LIST

End of Comment

128	(80)	SIGNED	4	SJXPBFCT	NUMBER OF EXTRA PBUFS
132	(84)	SIGNED	4	SJXBRSV1	RESERVED FOR FUTURE USE
136	(88)	SIGNED	4	SJXRESRV	RESERVED FOR FUTURE IBM USE
144	(90)	DBL WORD	8	(0)	Ensure doubleword alignment
144	(90)		8	SJXJBprt	Job total printed output (in packed decimal form)
152	(98)		8	SJXJBpun	Job total punched output (in packed decimal form)
160	(A0)		8	SJXJBpag	Job total page count (in packed decimal form)
168	(A8)		8	SJXJBbyt	Job total byte count (in packed decimal form)
176	(B0)	DBL WORD	8	SJXCLEND (0)	END OF CLEARED SECTION

Comment

ACB FOR HASP JOB LOG DATASET

End of Comment

176	(B0)	SIGNED	4	SJXLACB (0)	
176	(B0)	BITSTRING	1		. ACB IDENTIFICATION
177	(B1)	ADDRESS	1		. ACB SUBTYPE X04SVHS
178	(B2)	ADDRESS	2		. ACB LENGTH X03004HS
180	(B4)	ADDRESS	4		. AMB LIST POINTER
184	(B8)	ADDRESS	4		. INTERFACE ROUTINE POINTER
188	(BC)	BITSTRING	1		MACRF(1) X04SVHS
189	(BD)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
190	(BE)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
191	(BF)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
192	(C0)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
194	(C2)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
196	(C4)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
197	(C5)	ADDRESS	1		SHARED RESOURCE POOL ID
198	(C6)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
200	(C8)	BITSTRING	1		. RECFM=A
201	(C9)	BITSTRING	1		READ INTEGRITY OPTIONS
202	(CA)	BITSTRING	2		. DSORG=ACB
204	(CC)	ADDRESS	4		X04SVHS
208	(D0)	ADDRESS	4		. PASSWORD POINTER
212	(D4)	ADDRESS	4		. EXIT LIST POINTER
216	(D8)	CHARACTER	8		
224	(E0)	BITSTRING	1		OFLAGS
225	(E1)	ADDRESS	1		. ERFLAGS
226	(E2)	BITSTRING	1		INFLGS(1) X04SVHS
227	(E3)	BITSTRING	1		INFLGS(2) X04SVHS
228	(E4)	ADDRESS	4		. OPENJ JFCB POINTER
232	(E8)	ADDRESS	4		BUFFER SPACE
236	(EC)	ADDRESS	2		. BLOCK SIZE
238	(EE)	ADDRESS	2		. RECORD SIZE
240	(F0)	ADDRESS	4		. USER WORKAREA POINTER
244	(F4)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
248	(F8)	ADDRESS	4		. PTR TO APPLICATION NAME X03004

\$SJXB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
DEB FOR HASP JOB LOG DATASET					
End of Comment					
252	(FC)	SIGNED	4	(0)	
252	(FC)	BITSTRING	1	SJXLDEB	
Comment					
RPL FOR HASP JOB LOG DATASET					
End of Comment					
284	(11C)	SIGNED	4	SJXLRPL (0)	
284	(11C)	ADDRESS	1		RPL IDENTIFICATION
285	(11D)	ADDRESS	1		RPL SUBTYPE X04SVHS
286	(11E)	ADDRESS	1		RPL REQUEST TYPE
287	(11F)	ADDRESS	1		RPL LENGTH X03004
288	(120)	ADDRESS	4		. POINTER TO PLACEHOLDER
292	(124)	ADDRESS	4		. ECB
296	(128)	BITSTRING	1		. STATUS BYTE
297	(129)	BITSTRING	3		FEEDBACK CODES
300	(12C)	ADDRESS	2		. KEY LENGTH
302	(12E)	ADDRESS	2		. TRANSID
304	(130)	ADDRESS	4		POINTER TO CONTROL CHARACTER
308	(134)	ADDRESS	4		
312	(138)	ADDRESS	4		. POINTER TO TCB
316	(13C)	ADDRESS	4		. POINTER TO RECORD AREA
320	(140)	ADDRESS	4		. POINTER TO ARGUMENT
324	(144)	BITSTRING	1		. OPTCD BYTE 1
325	(145)	BITSTRING	1		
326	(146)	BITSTRING	1		OPTCD BYTE 3
327	(147)	BITSTRING	1		OPTCD BYTE 4
328	(148)	ADDRESS	4		. POINTER TO NEXT RPL
332	(14C)	ADDRESS	4		. RESERVED FOR LOGICAL REC LEN
336	(150)	ADDRESS	4		. RESERVED FOR BUFFER LENGTH OPTCD BYTES 5-8 X03004
340	(154)	BITSTRING	1		
341	(155)	BITSTRING	1		
342	(156)	BITSTRING	1		
343	(157)	BITSTRING	1		
344	(158)	BITSTRING	8		. RBA
352	(160)	BITSTRING	1		
353	(161)	ADDRESS	1		ACTIVE INDICATOR
354	(162)	ADDRESS	2		. MAXIMUM ERROR MSG LENGTH
356	(164)	ADDRESS	4		. RESERVED FOR MESSAGE AREA PTR
Comment					
ACB FOR INTERNAL TEXT DATASET					
End of Comment					
360	(168)	SIGNED	4	SJXIACB (0)	
360	(168)	BITSTRING	1		. ACB IDENTIFICATION
361	(169)	ADDRESS	1		ACB SUBTYPE X04SVHS
362	(16A)	ADDRESS	2		. ACB LENGTH X03004HS
364	(16C)	ADDRESS	4		. AMB LIST POINTER
368	(170)	ADDRESS	4		. INTERFACE ROUTINE POINTER
372	(174)	BITSTRING	1		MACRF(1) X04SVHS
373	(175)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
374	(176)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
375	(177)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
376	(178)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
378	(17A)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
380	(17C)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
381	(17D)	ADDRESS	1		SHARED RESOURCE POOL ID
382	(17E)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
384	(180)	BITSTRING	1		. RECFM=A
385	(181)	BITSTRING	1		READ INTEGRITY OPTIONS
386	(182)	BITSTRING	2		. DSORG=ACB
388	(184)	ADDRESS	4		X04SVHS
392	(188)	ADDRESS	4		. PASSWORD POINTER
396	(18C)	ADDRESS	4		. EXIT LIST POINTER
400	(190)	CHARACTER	8		
408	(198)	BITSTRING	1		OFLAGS
409	(199)	ADDRESS	1		. ERFLAGS
410	(19A)	BITSTRING	1		INFLGS(1) X04SVHS
411	(19B)	BITSTRING	1		INFLGS(2) X04SVHS
412	(19C)	ADDRESS	4		. OPENJ JFCB POINTER
416	(1A0)	ADDRESS	4		BUFFER SPACE
420	(1A4)	ADDRESS	2		. BLOCK SIZE
422	(1A6)	ADDRESS	2		. RECORD SIZE
424	(1A8)	ADDRESS	4		. USER WORKAREA POINTER
428	(1AC)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
432	(1B0)	ADDRESS	4		. PTR TO APPLICATION NAME X03004

Comment

DEB FOR INTERNAL TEXT DATASET

End of Comment

436	(1B4)	SIGNED	4	(0)	
436	(1B4)	BITSTRING	1	SJXIDEB	

Comment

ACB FOR SYSTEM MESSAGES DATASET

End of Comment

468	(1D4)	SIGNED	4	SJXMACB (0)	
468	(1D4)	BITSTRING	1		. ACB IDENTIFICATION
469	(1D5)	ADDRESS	1		ACB SUBTYPE X04SVHS
470	(1D6)	ADDRESS	2		. ACB LENGTH X03004HS
472	(1D8)	ADDRESS	4		. AMB LIST POINTER
476	(1DC)	ADDRESS	4		. INTERFACE ROUTINE POINTER
480	(1E0)	BITSTRING	1		MACRF(1) X04SVHS
481	(1E1)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
482	(1E2)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
483	(1E3)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
484	(1E4)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
486	(1E6)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
488	(1E8)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
489	(1E9)	ADDRESS	1		SHARED RESOURCE POOL ID
490	(1EA)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
492	(1EC)	BITSTRING	1		. RECFM=A
493	(1ED)	BITSTRING	1		READ INTEGRITY OPTIONS
494	(1EE)	BITSTRING	2		. DSORG=ACB
496	(1F0)	ADDRESS	4		X04SVHS
500	(1F4)	ADDRESS	4		. PASSWORD POINTER
504	(1F8)	ADDRESS	4		. EXIT LIST POINTER

\$SJXB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
508	(1FC)	CHARACTER	8		
516	(204)	BITSTRING	1		OFLAGS
517	(205)	ADDRESS	1		. ERFLAGS
518	(206)	BITSTRING	1		INFLGS(1) X04SVHS
519	(207)	BITSTRING	1		INFLGS(2) X04SVHS
520	(208)	ADDRESS	4		. OPENJ JFCB POINTER
524	(20C)	ADDRESS	4		BUFFER SPACE
528	(210)	ADDRESS	2		. BLOCK SIZE
530	(212)	ADDRESS	2		. RECORD SIZE
532	(214)	ADDRESS	4		. USER WORKAREA POINTER
536	(218)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
540	(21C)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
Comment					
DEB FOR SYSTEM MESSAGES DATASET					
End of Comment					
544	(220)	SIGNED	4	(0)	
544	(220)	BITSTRING	1	SJXMDEB	
Comment					
RPL FOR SYSTEM MESSAGES DATASET					
End of Comment					
576	(240)	SIGNED	4	SJXMRPL (0)	
576	(240)	ADDRESS	1		RPL IDENTIFICATION
577	(241)	ADDRESS	1		RPL SUBTYPE X04SVHS
578	(242)	ADDRESS	1		RPL REQUEST TYPE
579	(243)	ADDRESS	1		RPL LENGTH X03004
580	(244)	ADDRESS	4		. POINTER TO PLACEHOLDER
584	(248)	ADDRESS	4		. ECB
588	(24C)	BITSTRING	1		. STATUS BYTE
589	(24D)	BITSTRING	3		FEEDBACK CODES
592	(250)	ADDRESS	2		. KEY LENGTH
594	(252)	ADDRESS	2		. TRANSID
596	(254)	ADDRESS	4		POINTER TO CONTROL CHARACTER
600	(258)	ADDRESS	4		
604	(25C)	ADDRESS	4		. POINTER TO TCB
608	(260)	ADDRESS	4		. POINTER TO RECORD AREA
612	(264)	ADDRESS	4		. POINTER TO ARGUMENT
616	(268)	BITSTRING	1		. OPTCD BYTE 1
617	(269)	BITSTRING	1		
618	(26A)	BITSTRING	1		OPTCD BYTE 3
619	(26B)	BITSTRING	1		OPTCD BYTE 4
620	(26C)	ADDRESS	4		. POINTER TO NEXT RPL
624	(270)	ADDRESS	4		. RESERVED FOR LOGICAL REC LEN
628	(274)	ADDRESS	4		. RESERVED FOR BUFFER LENGTH OPTCD BYTES 5-8 X03004
632	(278)	BITSTRING	1		
633	(279)	BITSTRING	1		
634	(27A)	BITSTRING	1		
635	(27B)	BITSTRING	1		
636	(27C)	BITSTRING	8		. RBA
644	(284)	BITSTRING	1		
645	(285)	ADDRESS	1		ACTIVE INDICATOR
646	(286)	ADDRESS	2		. MAXIMUM ERROR MSG LENGTH
648	(288)	ADDRESS	4		. RESERVED FOR MESSAGE AREA PTR

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
ACB FOR JOURNAL DATASET					
End of Comment					
652	(28C)	SIGNED	4	SJXJACB (0)	
652	(28C)	BITSTRING	1		. ACB IDENTIFICATION
653	(28D)	ADDRESS	1		ACB SUBTYPE X04SVHS
654	(28E)	ADDRESS	2		. ACB LENGTH X03004HS
656	(290)	ADDRESS	4		. AMB LIST POINTER
660	(294)	ADDRESS	4		. INTERFACE ROUTINE POINTER
664	(298)	BITSTRING	1		MACRF(1) X04SVHS
665	(299)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
666	(29A)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH
667	(29B)	ADDRESS	1		X04SVHS FOR NUMERIC IN PARENS . NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
668	(29C)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
670	(29E)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
672	(2A0)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
673	(2A1)	ADDRESS	1		SHARED RESOURCE POOL ID
674	(2A2)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
676	(2A4)	BITSTRING	1		. RECFM=A
677	(2A5)	BITSTRING	1		READ INTEGRITY OPTIONS
678	(2A6)	BITSTRING	2		. DSORG=ACB
680	(2A8)	ADDRESS	4		X04SVHS
684	(2AC)	ADDRESS	4		. PASSWORD POINTER
688	(2B0)	ADDRESS	4		. EXIT LIST POINTER
692	(2B4)	CHARACTER	8		
700	(2BC)	BITSTRING	1		OFLAGS
701	(2BD)	ADDRESS	1		. ERFLAGS
702	(2BE)	BITSTRING	1		INFLGS(1) X04SVHS
703	(2BF)	BITSTRING	1		INFLGS(2) X04SVHS
704	(2C0)	ADDRESS	4		. OPENJ JFCB POINTER
708	(2C4)	ADDRESS	4		BUFFER SPACE
712	(2C8)	ADDRESS	2		. BLOCK SIZE
714	(2CA)	ADDRESS	2		. RECORD SIZE
716	(2CC)	ADDRESS	4		. USER WORKAREA POINTER
720	(2D0)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
724	(2D4)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
Comment					
DEB FOR JOURNAL DATASET					
End of Comment					
728	(2D8)	SIGNED	4	(0)	
728	(2D8)	BITSTRING	1	SJXJDEB	
728	(2D8)	X'6C	0	SJACBLGH	**-'SJXJACB' LENGTH OF JACB
Comment					
Transaction Processor Fields					
End of Comment					
760	(2F8)	ADDRESS	4	SJXSJBS	Address of SJB save area
764	(2FC)	SIGNED	4	SJXTRPL (0)	
764	(2FC)	ADDRESS	1		RPL IDENTIFICATION
765	(2FD)	ADDRESS	1		RPL SUBTYPE X04SVHS
766	(2FE)	ADDRESS	1		RPL REQUEST TYPE
767	(2FF)	ADDRESS	1		RPL LENGTH X03004
768	(300)	ADDRESS	4		. POINTER TO PLACEHOLDER

\$SJXB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
772	(304)	ADDRESS	4		. ECB
776	(308)	BITSTRING	1		. STATUS BYTE
777	(309)	BITSTRING	3		FEEDBACK CODES
780	(30C)	ADDRESS	2		. KEY LENGTH
782	(30E)	ADDRESS	2		. TRANSID
784	(310)	ADDRESS	4		POINTER TO CONTROL CHARACTER
788	(314)	ADDRESS	4		. POINTER TO ACB
792	(318)	ADDRESS	4		. POINTER TO TCB
796	(31C)	ADDRESS	4		. POINTER TO RECORD AREA
800	(320)	ADDRESS	4		. POINTER TO ARGUMENT
804	(324)	BITSTRING	1		. OPTCD BYTE 1
805	(325)	BITSTRING	1		
806	(326)	BITSTRING	1		OPTCD BYTE 3
807	(327)	BITSTRING	1		OPTCD BYTE 4
808	(328)	ADDRESS	4		. POINTER TO NEXT RPL
812	(32C)	ADDRESS	4		. RESERVED FOR LOGICAL REC LEN
816	(330)	ADDRESS	4		. RESERVED FOR BUFFER LENGTH OPTCD BYTES 5-8 X03004
820	(334)	BITSTRING	1		
821	(335)	BITSTRING	1		
822	(336)	BITSTRING	1		
823	(337)	BITSTRING	1		
824	(338)	BITSTRING	8		. RBA
832	(340)	BITSTRING	1		
833	(341)	ADDRESS	1		ACTIVE INDICATOR
834	(342)	ADDRESS	2		. MAXIMUM ERROR MSG LENGTH
836	(344)	ADDRESS	4		. RESERVED FOR MESSAGE AREA PTR
840	(348)	ADDRESS	4	SJXTACB	Address of ACB for SYSLOG
844	(34C)	BITSTRING	4		Reserved for future use
848	(350)	SIGNED	4	SJXJSPCT	Number of SAPI threads awaiting JES2 addresspace

Comment

MACDATE = 06/13/1996

End of Comment

852	(354)	SIGNED	4	SJXALES (0)	.ALESERV PC PARAMETER LIST
852	(354)	BITSTRING	1		.SERVICE TYPE CODE
853	(355)	BITSTRING	1		.OPTIONS FLAG BYTE
854	(356)	ADDRESS	2		.RESERVED
856	(358)	ADDRESS	4		.ALET
860	(35C)	BITSTRING	8		.STOKEN (SPACE TOKEN)
860	(35C)	X'10	0	SJXALESL	** -SJXALES" Length of block

Comment

MACDATE = 04/03/89

End of Comment

852	(354)	SIGNED	4	SJXTTOK (0)	
852	(354)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
852	(354)	BITSTRING	8		
860	(35C)	SIGNED	4		
864	(360)	ADDRESS	4		
868	(364)	ADDRESS	4		ASCB ADDRESS (INPUT)
872	(368)	SIGNED	4	(0)	FLAGS (INPUT)
872	(368)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
873	(369)	SIGNED	3		RESERVED
873	(369)	X'18	0	SJXTTOKL	** -SJXTTOK" Length of block
880	(370)	DBL WORD	8	(0)	
880	(370)	X'70	0	SJXBSIZE	** -SJXB" SIZE OF SJB EXTENSION

\$SJXB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SJACBLGH	2D8	6C	SJXTTOKL	369	18
SJXACCT	60		SJXUSEID	78	
SJXALES	354		SJXUSER	68	
SJXALESL	35C	10	SJXXWECB	6C	
SJXBID	0		SJXXWPL	6C	
SJXBPIOB	C		SJX1JPGM	1D	40
SJXBRSV1	84		SJX1PLHD	1D	80
SJXBSIOT	18		SJX2DEFR	1F	8
SJXBFSIZE	370	70	SJX2SPIN	1F	40
SJXBSJBA	4		SJX2SPIP	1F	20
SJXBSPDB	1C		SJX2SUPP	1F	10
SJXBUSAV	18		SJX2TITL	1F	80
SJXBYINT	58				
SJXBYTES	58				
SJXBYTOP	5C				
SJXCLBEG	14				
SJXCLEND	B0				
SJXFLAG1	1D				
SJXFLAG2	1F				
SJXGGST	10				
SJXIACB	168				
SJXIDEB	1B4	0			
SJXJACB	28C				
SJXJBBYT	A8				
SJXJBPA	A0				
SJXJBPR	90				
SJXJBPU	98				
SJXJDEB	2D8	0			
SJXJLKEY	38				
SJXJLOG	20				
SJXJLSPN	34				
SJXJSPCT	350				
SJXLACB	B0				
SJXLDEB	FC	0			
SJXLINES	40				
SJXLNINT	40				
SJXLNOP	44				
SJXLOGD	1E				
SJXLRPL	11C				
SJXMACB	1D4				
SJXMDEB	220	0			
SJXMRPL	240				
SJXMSGCL	64				
SJXOFLG2	26				
SJXPAGES	50				
SJXPBFCT	80				
SJXPBFML	8				
SJXPGIN	50				
SJXPGOP	54				
SJXPUI	48				
SJXPUN	48				
SJXPUNOP	4C				
SJXRDRON	70				
SJXRDTON	74				
SJXRESRV	88				
SJXRIOT	2C				
SJXRPDDB	30				
SJXSJBS	2F8				
SJXSMKEY	3C				
SJXSPNUM	28				
SJXTACB	348				
SJXTRPL	2FC				
SJXTTOK	354				

\$SJXB Cross Reference

\$SMF Programming Interface information

Programming Interface information

\$SMF

End of Programming Interface information

\$SMF Heading Information

Common Name: HASP SMF BUFFER DSECT
Macro ID: \$SMF
DSECT Name: SMF
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: See symbols SMFPOOL and B32KPOOL in macro \$HASPEQU.
 Key: 1
 Residency: Virtual and real storage are anywhere (above or below 16M) in the JES2 address space.

Size: See SMFLNG

Created by: An SMF buffer is allocated from either the SMF cell pool or the B32K cell pool. These cell pools are created during JES2 initialization. The \$GETSMFB service is used to allocate an SMF buffer from the appropriate cell pool.

Pointed to by: Field \$SMFBUSY in the \$HCT data area points to the queue of SMF buffers to be written. The buffers are chained via field SMFCHAIN. Some PCE work areas point to an SMF buffer.

Serialization: A PCE obtains an SMF buffer using the \$GETSMFB macro. It has exclusive control of the buffer until it queues it for writing (\$QUESMFB macro) or frees it (\$FRESMFB macro). After queueing a buffer, the PCE cannot use it. The HASPACCT subtask frees the buffer after writing it. The \$QUESMFB service uses compare and swap to stack a buffer onto \$SMFBUSY. The HASPACCT subtask uses compare and swap to dequeue the last buffer chained from \$SMFBUSY.

Function: \$SMF contains mappings for types 6,24,26,43,45,47, 48,49,52,53,54,54,55,56,57,and 58 SMF records. IFASMFR is called by \$SMF and expanded within for each SMF record.

When computing actual SMF displacements, remember the JES2 SMF headers contribute 8 bytes to all \$SMF macro displacements.

\$SMF Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SMF	HASP SMF BUFFER DSECT
0	(0)	SIGNED	4	SMFCHAIN	SMF BUFFER CHAIN TO NEXT BUFFER
4	(4)	BITSTRING	1	SMFTYPE	TYPE OF BUFFER
4	(4)	BITSTRING	0	SMFJMRT	"B'10000000" JMR BUFFER
4	(4)	BITSTRING	0	SMFLRGTP	"B'01000000" LARGE SMF RECORD BUFFER
4	(4)	BITSTRING	0	SMFQUED	"B'00100000" Buffer is queued to HASPACCT subtask
5	(5)	CHARACTER	1	SMFWFL26	RECORD 26 WRITE FLAG
5	(5)	X'1	0	SMFNO26	"1" DO NOT WRITE SMF RECORD
6	(6)	CHARACTER	1	SMFCLFLG	CLASS SMF AFFINITY
6	(6)	BITSTRING	0	SMFAPPC	"X'01" System affinity for transaction programs
7	(7)	CHARACTER	1	SMFPARM	RESERVED
7	(7)	X'8	0	SMFLNHDR	**SMF" LENGTH OF JES2 BUFFER HEADER

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>THE FOLLOWING ARE COMMON FIELD NAMES USED FOR MULTIPLE RECORDS EACH INDIVIDUAL RECORD HAS A RECORD SPECIFIC NAME FOR EACH FIELD SUCH AS SMFNNXXX WHERE, NN = RECORD NUMBER, AND XXX = FIELD NAME</p>					
End of Comment					
8	(8)	CHARACTER	4	SMFJMRCH (0)	POINTER TO PURGE REC BUFFER
8	(8)	CHARACTER	4	SMFRDW (0)	SMF RECORD DESCRIPTOR WORD
8	(8)	CHARACTER	2	SMFLEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMFSEG	SEGMENT DESCRIPTOR
Comment					
<p>BEGINNING OF JMR OR HASP SMF RECORD</p>					
End of Comment					
10	(A)	X'C	0	SMFJMR	*** JMR DATA AREA
Comment					
<pre>%IFABGN1 ; METHOD OF ACCESS PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE INCLUDE MACRO FROM LIBRARY EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP- DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD A DIAGNOSTIC. THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER RECORDS AS FOLLOWS: MACRO RECORDS IFASMFR1 07-19 IFASMFR2 20-27 IFASMFR3 28-36 IFASMFR4 37-46 IFASMFR5 47-54 IFASMFR6 55-69 IFASMFR9 80-84 IFASMFR8 85-103 IFASMFRB 104-113 IFASMFRD 114-123 IFASMFRD 124-127 %GOTO IFABGN2; THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS IFASMFR &RECTYPE NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1). IN JES2, THIS RECORD IS WRITTEN FOR EACH JOB OUTPUT ELEMENT, WHICH REPRESENTS A GROUP OF DS DIFFERENTIATED BY PUNCH OR PRINTER SETUP & TYPE OF OUTPUT(EG HELD VS NON-HELD). FOR JES3, WRITTEN FOR EACH COPY OF A DATA SET</pre>					
End of Comment					
8	(8)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDARY
8	(8)	X'8	0	SMFRCD6	*** HEADER SEGMENT
8	(8)	BITSTRING	2	SMF6LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF6SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF6FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF6RTY	RECORD TYPE 6
13	(D)	X'6	0	SMFJ6	"6" PRINT/PUNCH RECORD TYPE

\$SMF Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
14	(E)	BITSTRING	4	SMF6TME	TOD, USING FORMAT FROM TIME MACRO W/BIN. INTVL
18	(12)		4	SMF6DTE	DATE IN PACKED DECIMAL FORM: 00YYDDDF
22	(16)	CHARACTER	4	SMF6SID	SYSTEM IDENTIFICATION Y02901
26	(1A)	CHARACTER	8	SMF6JBN	JOB NAME
34	(22)	BITSTRING	4	SMF6RST	RDR START TIME, TIME JOB CARD 1ST READ
38	(26)		4	SMF6RSD	READER START DATE 00YYDDDF
42	(2A)	CHARACTER	8	SMF6UIF	USER ID FIELD
50	(32)	CHARACTER	1	SMF6OWC	OUTPUT WTR CLASS, BLANK FOR NON-SYSOUT
51	(33)	BITSTRING	4	SMF6WST	WRITER START TIME
55	(37)		4	SMF6WSD	WRITER START DATE
59	(3B)	BITSTRING	4	SMF6NLR	# OF LOGICAL RECORDS HANDLED BY WRITER PER FORM # PER CLASS, INCLUDES REPEATS AND RESTARTS.
63	(3F)	BITSTRING	1	SMF6IOE	IO ERROR INDICATOR: BITS 0-4 RESERVED Y02120
63	(3F)	BITSTRING	0	SMF6DIE	"X'04'" 5 - DATA INPUT ERROR 6 - RESV Y02120
63	(3F)	BITSTRING	0	SMFCBIE	"X'01'" 7 - CONTROL BLOCK INPUT ERROR
64	(40)	BITSTRING	1	SMF6NDS	# OF DATA SETS PROCESSED BY THE OUTPUT Y02120 WRITER AND INCLUDED IN THIS RECORD. Y02120 (COUNT FOR EACH TIME A DS IS PRINTED) Y02120 DOES NOT INCLUDE RESTARTS.
65	(41)	CHARACTER	4	SMF6FMN	FORM NUMBER
69	(45)	BITSTRING	1	SMF6PAD1	STATUS INDICATORS - THE SECTIONS WILL BE IN THE ORDER LISTED BELOW WHEN THE BIT IS TURNED ON BIT MEANING
69	(45)	BITSTRING	0	SMF6FEXT	"X'80'" 0 1 - FIRST EXTENSION PRESENT
69	(45)	BITSTRING	0	SMF6REXT	"X'40'" 1 1 - COMMON SECTION PRESENT
69	(45)	BITSTRING	0	SMF6SEXT	"X'20'" 2 1 - SECOND EXTENSION PRESENT
69	(45)	BITSTRING	0	SMF6ESS1	"X'10'" 3 1 - ENHANCED SYSOUT SECTION PRESENT
69	(45)	BITSTRING	0	SMF6FTFR	"X'08'" 4 1 - FILE TRANSFER SECTION PRESENT 5-7 RESERVED
70	(46)	BITSTRING	2	SMF6SBS	SUBSYSTEM GENERATING ID EXTWTR=0, JES2=2, JES3=5, PSF=7, IP PrintWay = 9
72	(48)	BITSTRING	2	SMF6LN1	LENGTH OF SECTION INCLUDING THIS FIELD
74	(4A)	BITSTRING	1	SMF6DCI	DS CONTROL INDICATORS FOR DATA GROUP
74	(4A)	BITSTRING	0	SMF6DCRV	"X'80'" 0 - RESERVED
74	(4A)	BITSTRING	0	SMF6SDS	"X'40'" 1 - SPUN OFF DS
74	(4A)	BITSTRING	0	SMF6OCN	"X'20'" 2 - TERMINATED BY OPERATOR
74	(4A)	BITSTRING	0	SMF6ORD	"X'10'" 3 - INTERRUPTED BY OPERATOR (JES2) OPERATOR RESTARTED DATA SET WITH DESTINATION (JES3)
74	(4A)	BITSTRING	0	SMF6OR	"X'08'" 4 - RESTARTED BY OPERATOR
74	(4A)	BITSTRING	0	SMF6ROR	"X'04'" 5 - CONT OF INTERRUPTED GROUP (JES2) RECEIVED OP RESTARTED DS(JES3)
74	(4A)	BITSTRING	0	SMF6OSS	"X'02'" 6 - CARRIAGE OVERRIDEN BY OPER(JES2) OPERATOR STARTED WITH SINGLE SPACE(JES3)
74	(4A)	BITSTRING	0	SMF6INT	"X'01'" 7 - PUNCH WAS INTERPRETED
75	(4B)	BITSTRING	1	SMF6INDC	INDICATOR BITS BITS 0-3 ARE RESERVED FOR FUTURE EXPANSION OF DATASET CONTROL INDICATORS BITS 4-7 ARE RECORD LEVEL INDICATORS IN BIT VALUE FORMAT. EXAMPLE: LEVEL 1=X'01' LEVEL 12=X'0C' LEVEL 15=X'0F' THIS NUMBER WILL BE INCREMENTED BY 1 EACH TIME A NEW RELEASE CHANGES THE RECORD
75	(4B)	BITSTRING	0	SMF6LEV2	"X'01'" THIS VARIABLE IS FOR JES2 TO SET THE LEVEL INDICATOR BITS.
75	(4B)	BITSTRING	0	SMF6J2L3	"X'03'" THIS VARIABLE IS FOR JES2 TO SET THE LEVEL INDICATOR BITS.
75	(4B)	BITSTRING	0	SMF6J2L4	"X'04'" THIS VARIABLE IS FOR JES2 TO SET THE LEVEL INDICATOR BITS FOR SECURITY SUPPORT
75	(4B)	BITSTRING	0	SMF6LEV3	"X'01'" THIS VARIABLE IS FOR JES3 TO SET THE LEVEL INDICATOR BITS.
75	(4B)	BITSTRING	0	SMF6J3L3	"X'03'" THIS VARIABLE IS FOR JES3 TO SET THE LEVEL INDICATOR BITS.
75	(4B)	BITSTRING	0	SMF6J3L4	"X'04'" THIS VARIABLE IS FOR JES3 TO SET THE LEVEL INDICATOR BITS FOR SECURITY SUPPORT INDICATOR BITS.
75	(4B)	BITSTRING	0	SMF6LEV4	"X'05'" MVS/JES2 RELEASE 4.1.0

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
75	(4B)	BITSTRING	0	SMF6LEV6	"X'06" PSF/MVS RELEASE 3.1.0
76	(4C)	CHARACTER	4	SMF6JNM	WHEN SMF6INDC CONTAINS A X'1', THIS FIELD CONTAINS A FOUR-DIGIT EBCDIC JOB NUMBER. WHEN SMF6INDC CONTAINS A X'3' OR GREATER, AND THE JOB NUMBER HAS MORE THAN 4 DIGITS, THIS FIELD CONTAINS ZEROS. IF THE JOB NUMBER IS < OR = TO 9999, THIS FIELD CONTAINS THE JOB NUMBER. FOR AN APPC TRANSACTION, THIS FIELD CONTAINS ZEROES. THE CORRECT JOB NUMBER OR APPC TRANSACTION ID IS FOUND IN SMF6JBID.
80	(50)	CHARACTER	8	SMF6OUT	LOGICAL OUTPUT DEVICE NAME FOR THE 3820, ACF/VTAM LOGICAL UNIT NAME
88	(58)	CHARACTER	4	SMF6FCB	FCB ID Y02120
92	(5C)	CHARACTER	4	SMF6UCS	UCS ID Y02120 END OF RECORD FOR EXTERNAL WTR
96	(60)	BITSTRING	4	SMF6PGE	APPROXIMATE PHYSICAL PAGE COUNT
96	(60)	X'64	0	SMF6J2S	*** BEGIN JES2 ONLY SECTION
100	(64)	BITSTRING	2	SMF6RTE	OUTPUT ROUTE CODE OR ZERO
102	(66)	BITSTRING	1	SMF6END2 (0)	END OF JES2 RECORD
102	(66)	BITSTRING	0	SMF6SIZ2 (0)	SIZE OF JES2 SMF6 RECORD EXCLUDING OPTIONAL EXTENSIONS
102	(66)	BITSTRING	0	SMF6SIZ3 (0)	SIZE OF JES2 SMF6 RECORD FROM SMF6LN1 TO HERE
100	(64)	X'64	0	SMF6J3S	*** BEGIN JES3 ONLY SECTION
100	(64)	BITSTRING	2	SMF6DFE	DATA FORMAT ERROR INDICATORS BITS 0-5 RESV
100	(64)	BITSTRING	0	SMF6CCE	"X'02" 6 - SOME 1ST CHAR CONTROL DATA BAD, DEFAULT USED
100	(64)	BITSTRING	0	SMF6RBE	"X'01" 7 - BAD RECORD LENGTH(TRUNCATE OR PAD) 8-15 RESV
102	(66)	BITSTRING	2	SMF6OPR	OUTPUT PRIORITY
104	(68)	CHARACTER	8	SMF6GRP	LOGICAL OUTPUT DEVICE GROUP NAME
112	(70)	CHARACTER	8	SMF6RSVJ	RESERVED FOR JES3
120	(78)	CHARACTER	4	SMF6RSVU	RESERVED FOR USER
124	(7C)	BITSTRING	1	SMF6END (0)	END OF JES3 RECORD
124	(7C)	BITSTRING	0	SMF6SIZ (0)	SIZE OF JES3 SMF6 RECORD EXCLUDING OPTIONAL EXTENSIONS
124	(7C)	BITSTRING	1	SMF6LSIZ (0)	SIZE OF JES3 SMF6 RECORD FROM SMF6LN1 TO HERE

Comment

FIRST EXTENSION - NON-IMPACT PRINTING SUBSYSTEM SECTION
 THIS SECTION WILL ONLY BE PRESENT WHEN
 SMF6SBS IS SET TO 2, 5 OR 7 INDICATING THAT
 JES2, JES3 OR PSF HAS GENERATED THIS RECORD

End of Comment

72	(48)	BITSTRING	2	SMF6LN2	LENGTH FIRST EXTENSION INCLUDING THIS FLD
74	(4A)	CHARACTER	1	SMF6CPS (8)	COPIES DISTRIBUTION
82	(52)	CHARACTER	4	SMF6CHR (4)	TRANSLATE TABLE NAMES FRO CHARS PARM
98	(62)	CHARACTER	4	SMF6MID	COPY MODIFICATION MODULE NAME
102	(66)	CHARACTER	4	SMF6FLI	FLASH OVERLAY NAME
106	(6A)	BITSTRING	1	SMF6FLC	NUMBER OF COPIES FLASHED
107	(6B)	BITSTRING	1	SMF6BID	FLAG BYTE
107	(6B)	BITSTRING	0	SMF6BTS	"X'80" THE BTSS WAS USED FOR OUTPUT
107	(6B)	BITSTRING	0	SMF6OPJ	"X'40" OPTCD=J WAS USED FOR OUTPUT
107	(6B)	BITSTRING	0	SMF6CSP	"X'20" CUT SHEET PRINTER
108	(6C)	BITSTRING	1	SMF6FEND (0)	END OF FIRST EXTENSION
108	(6C)	BITSTRING	1	SMF6FSIZ (0)	SIZE OF FIRST EXTENSION

\$SMF Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
COMMON SECTION - THIS SECTION IS AN EXTENSION OF THE FIXED HEADER SECTION AND WILL BE WRITTEN BY ALL GENERATORS OF THE TYPE 6 RECORD. THIS WAS PREVIOUSLY CALLED THE ROUTING SECTION.					
End of Comment					
72	(48)	BITSTRING	2	SMF6LN3	LENGTH OF SECTION INCLUDING THIS FIELD
74	(4A)	CHARACTER	4	SMF6ROUT	OUTPUT ROUTE CODE
78	(4E)	CHARACTER	8	SMF6EFMN	OUTPUT FORM NUMBER
86	(56)	BITSTRING	1	SMF6REND (0)	END OF OLD ROUTING SECTION
86	(56)	BITSTRING	0	SMF6RSIZ (0)	SIZE OF OLD ROUTING SECTION
86	(56)	CHARACTER	16		RESERVED
102	(66)	CHARACTER	8	SMF6JBID	JOB ID
110	(6E)	CHARACTER	8	SMF6STNM	STEPNAME
118	(76)	CHARACTER	8	SMF6PRNM	PROCEDURE STEP NAME
126	(7E)	CHARACTER	8	SMF6DDNM	DD NAME
134	(86)	CHARACTER	8	SMF6USID	USER ID
142	(8E)	CHARACTER	8	SMF6SECS	SECURITY LABEL (SECLABEL)
150	(96)	CHARACTER	8	SMF6PRMD	PROCESSING MODE
158	(9E)	CHARACTER	53	SMF6DSNM	DATA SET RESOURCE NAME
211	(D3)	CHARACTER	3		RESERVED
214	(D6)	CHARACTER	20	SMF6OTOK	OUTPUT GROUP TOKEN
234	(EA)	BITSTRING	1	SMF6DEND (0)	END OF ROUTING SECTION
234	(EA)	BITSTRING	1	SMF6DSIZ (0)	SIZE OF ROUTING SECTION
Comment					
SECOND EXTENSION - APA (ALL POINTS ADDRESSABLE) PRINTING SUBSYSTEM SECTION THIS SECTION WILL ONLY BE PRESENT WHEN SMF6SBS IS SET TO 7 INDICATING THAT PSF HAS GENERATED THIS RECORD					
End of Comment					
72	(48)	BITSTRING	2	SMF6LN4	LENGTH SECOND EXTENSION INCLUDING THIS FLD
74	(4A)	BITSTRING	2	SMF6BNOF	OFFSET TO BIN SECTION
74	(4A)	BITSTRING	2	SMF6RES	RESERVED - REDEFINES SMF6BNOF
76	(4C)	BITSTRING	4	SMF6FONT	NUMBER OF FONTS USED
80	(50)	BITSTRING	4	SMF6LFNT	NUMBER OF FONTS LOADED
84	(54)	BITSTRING	4	SMF6OVLY	NUMBER OF OVERLAYS USED
88	(58)	BITSTRING	4	SMF6LOLY	NUMBER OF OVERLAYS LOADED
92	(5C)	BITSTRING	4	SMF6PGSG	NUMBER OF PAGE SEGMENTS USED
96	(60)	BITSTRING	4	SMF6LPNG	NUMBER OF PAGE SEGMENTS LOADED
100	(64)	BITSTRING	4	SMF6IMPS	COUNT OF LOGICAL IMPRESSIONS PROCESSED
104	(68)	BITSTRING	4	SMF6FEET	NUMBER OF FEET OF DOCUMENT PRINTED (ZERO FOR THE 3820)
108	(6C)	BITSTRING	4	SMF6PGDF	NUMBER OF PAGEDFS USED
112	(70)	BITSTRING	4	SMF6FMDF	NUMBER OF FORMDEFS USED
116	(74)	BITSTRING	1	SMF6BIN	FLAG BYTE
116	(74)	BITSTRING	0	SMF6BIN1	"X'80" BIN1 WAS USED FOR ANY PART OF THE DATA SET
116	(74)	BITSTRING	0	SMF6BIN2	"X'40" BIN2 WAS USED FOR ANY PART OF THE DATA SET
116	(74)	BITSTRING	0	SMF6BIN3	"X'20" BIN3 WAS USED FOR ANY PART OF THE DATA SET
116	(74)	BITSTRING	0	SMF6BIN4	"X'10" BIN4 WAS USED FOR ANY PART OF THE DATA SET
117	(75)	BITSTRING	1	SMF6PGOP	FLAG BYTE
117	(75)	BITSTRING	0	SMF6DUPS	"X'80" STANDARD DUPLEX WAS USED FOR ANY PART OF DS
117	(75)	BITSTRING	0	SMF6DUPT	"X'40" TUMBLE DUPLEX WAS USED FOR ANY PART OF DS
117	(75)	BITSTRING	0	SMF6SYSA	"X'20" KEYWORD SYSAREA=Y
117	(75)	BITSTRING	0	SMF6DPGL	"X'10" KEYWORD DPAGELBL=Y
117	(75)	BITSTRING	0	SMF6SUCC	"X'08" PRINT OPERATION WAS SUCCESSFUL
117	(75)	BITSTRING	0	SMF6SPGL	"X'04" KEYWORD SPAGELBL=Y

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
117	(75)	BITSTRING	0	SMF6SOER	"X'02" ERROR OCCURRED PROCESSING SECURITY OVERLAY
117	(75)	BITSTRING	0	SMF6IGER	"X'01" IMAGE GENERATOR OVERRUN ERROR OCCURRED
118	(76)	BITSTRING	1	SMF6FLG3	FLAG BYTE
118	(76)	BITSTRING	0	SMF6SLIG	"X'80" SECURITY LABEL INTEGRITY GUARANTEED
118	(76)	BITSTRING	0	SMF6JHPP	"X'40" THE JOB HEADER PAGE WAS PRINTED
118	(76)	BITSTRING	0	SMF6JTPP	"X'20" THE JOB TRAILER PAGE WAS PRINTED
118	(76)	BITSTRING	0	SMF6DPLS	"X'10" DATA PAGE LABELING WAS SUPPRESSED
118	(76)	BITSTRING	0	SMF6UPAS	"X'08" USER PRINTABLE AREA WAS SUPPRESSED
119	(77)	BITSTRING	1		RESERVED
120	(78)	BITSTRING	4	SMF6NSOL	NUMBER OF SECURITY OVERLAYS USED
124	(7C)	BITSTRING	4	SMF6NSFO	NUMBER OF SECURITY FONTS USED
128	(80)	BITSTRING	4	SMF6NSPS	NUMBER OF SECURITY PAGE SEGMENTS USED
132	(84)	CHARACTER	8	SMF6FDNM	FORMDEF NAME
140	(8C)	CHARACTER	8	SMF6PDNM	PAGEDEF NAME
148	(94)	CHARACTER	8	SMF6PTDV	PRINTDEV NAME
156	(9C)	CHARACTER	32	SMF6OCNM	OBJECT CONTAINER NAME(S)
156	(9C)	CHARACTER	8	SMF6SETU	COMSETUP OBJECT CONTAINER NAME
164	(A4)	CHARACTER	8		RESERVED OBJECT CONTAINER NAME
172	(AC)	CHARACTER	8		RESERVED OBJECT CONTAINER NAME
180	(B4)	CHARACTER	8		RESERVED OBJECT CONTAINER NAME
188	(BC)	BITSTRING	4	SMF6LPGE	Count of logical pages processed
192	(C0)	BITSTRING	1	SMF6SEND (0)	END OF SECOND EXTENSION
192	(C0)	BITSTRING	1	SMF6SSIZ (0)	SIZE OF SECOND EXTENSION

Comment

MULTI-BINS HEADER SECTION (OFFSET DEFINED BY SMF6BNOF)

End of Comment

8	(8)	BITSTRING	2	SMF6BNLN	LENGTH BINS SECTION INCLUDING THIS FLD
10	(A)	BITSTRING	2	SMF6BNUM	NUMBER OF COUNTERS ENTRIES

Comment

MULTI-BINS COUNTER SECTION
- FOLLOWS "MULTI-BIN" HEADER SECTION

End of Comment

8	(8)	BITSTRING	1	SMF6BNNO	BIN NUMBER
9	(9)	BITSTRING	3	SMF6BNCT	BIN COUNTER
12	(C)	BITSTRING	2	SMF6BNLE	Paper length in millimeters
14	(E)	BITSTRING	2	SMF6BNWI	Paper width in millimeters

Comment

ENHANCED SYSOUT SECTION

End of Comment

72	(48)	BITSTRING	2	SMF6LN5	LENGTH ENHANCED SYSOUT SECTION INCLUDING THIS FIELD
74	(4A)	BITSTRING	4	SMF6SGID	SEGMENT IDENTIFIER
78	(4E)	BITSTRING	1	SMF6IND	SECTION INDICATOR
78	(4E)	BITSTRING	0	SMF6SJF	"X'80" ERROR OBTAINING SWBTU - SWBTU DATA AREA NOT PRESENT
79	(4F)	BITSTRING	1	SMF6RSV	RESERVED
80	(50)	CHARACTER	8	SMF6JDVT	JDVTNAME
88	(58)	BITSTRING	2	SMF6TUL	SWBTU DATA AREA LENGTH
90	(5A)	CHARACTER	1	SMF6TU (0)	SWBTU DATA AREA - DATA AREA CAN BE PROCESSED USING SWBTUREQ MACRO
90	(5A)	BITSTRING	1	SMF6EEND (0)	END OF ENHANCED SYSOUT SECTION
90	(5A)	BITSTRING	1	SMF6ESIZ (0)	SIZE OF ENHANCED SYSOUT SEC.

\$SMF Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
FILE TRANSFER SECTION					
End of Comment					
72	(48)	BITSTRING	2	SMF6LN6	LENGTH OF FILE TRANSFER SECTION INCLUDING THIS FIELD
74	(4A)	BITSTRING	4	SMF6BYTE	TOTAL NUMBER OF BYTES SENT
78	(4E)	BITSTRING	1	SMF6IP1	1ST SEGMENT OF TARGET ADDRESS
79	(4F)	BITSTRING	1	SMF6IP2	2ND SEGMENT OF TARGET ADDRESS
80	(50)	BITSTRING	1	SMF6IP3	3RD SEGMENT OF TARGET ADDRESS
81	(51)	BITSTRING	1	SMF6IP4	4TH SEGMENT OF TARGET ADDRESS
82	(52)	CHARACTER	12		RESERVED
94	(5E)	BITSTRING	2	SMF6PQLN	Length of Print Queue Name
96	(60)	CHARACTER	1	SMF6PRTQ (0)	Print Queue Name
96	(60)	BITSTRING	1	SMF6TEND (0)	END OF FILE TRANSFER SECTION
96	(60)	BITSTRING	0	SMF6TSIZ (0)	SIZE OF FILE TRANSFER SECTION

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SMF	, DSECT may be destroyed
Comment					

```
%IFABGN1;
METHOD OF ACCESS
PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
INCLUDE MACRO FROM LIBRARY
EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
%INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
A DIAGNOSTIC.
THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT
ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
RECORDS AS FOLLOWS:
MACRO RECORDS
IFASMFR1 07-19
IFASMFR2 20-27
IFASMFR3 28-36
IFASMFR4 37-46
IFASMFR5 47-54
IFASMFR6 55-69
IFASMFR9 80-84
IFASMFR10 85-103
IFASMFR11 104-113
IFASMFR12 114-123
IFASMFR13 124-127
```

```
%GOTO IFABGN2;
THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
REQUIRED FORMAT IS
IFASMFR &RECTYPE
NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1).
MODULE NAME = IAZSMF24
DESCRIPTIVE NAME = JES SMF SPOOL OFFLOAD RECORD
SWITCH TO DECIDE WHETHER TO GENERATE EQUATES FOR WRITING SMF RECORDS
```

End of Comment					
8	(8)	X'8'	0	SMFRCD24	*** START OF RECORD
8	(8)	X'8'	0	SMF24PTR	*** HEADER LENGTH
8	(8)	CHARACTER	2	SMF24LEN	RECORD LENGTH

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
10	(A)	CHARACTER	2	SMF24SEG	SEGMENT DESCRIPTOR

Comment

BEGINNING OF JMR OR HASP SMF RECORD

End of Comment

12	(C)	BITSTRING	1	SMF24FLG	HEADER FLAG BYTE
12	(C)	BITSTRING	0	SMF24STS	"B'01000000" SUBTYPES USED
13	(D)	BITSTRING	1	SMF24RTY	RECORD TYPE
14	(E)	BITSTRING	4	SMF24TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)	BITSTRING	4	SMF24DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF24SID	SYSTEM IDENTIFICATION

Comment

HEADER FOR HASP SUBSYS RECORD TYPE 24

End of Comment

22	(16)	X'18	0	SMF24J	"24" SPOOL OFFLOAD RECORD TYPE
26	(1A)	BITSTRING	4	SMF24SSI	SUBSYSTEM ID
30	(1E)	BITSTRING	2	SMF24SUB	RECORD SUBTYPE
30	(1E)	X'1	0	SMF24JT	"1" JOB TRANSMITTER
30	(1E)	X'2	0	SMF24JR	"2" JOB RECEIVER
30	(1E)	X'3	0	SMF24ST	"3" SYSOUT TRANSMITTER
30	(1E)	X'4	0	SMF24SR	"4" SYSOUT RECEIVER
32	(20)	BITSTRING	2	SMF24NTR	NUMBER OF TRIPLETS
34	(22)	BITSTRING	2	SMF24RSV	RESERVED
34	(22)	X'1C	0	SMF24LHD	** -SMFRCD24" LEN OF HEADER SECTION
34	(22)	X'24	0	SMF24TPS	*** BEGINNING OF TRIPLETS
36	(24)	BITSTRING	4	SMF24OPS	OFFSET TO PRODUCT SECTION
40	(28)	BITSTRING	2	SMF24LPS	LENGTH OF PRODUCT SECTION
42	(2A)	BITSTRING	2	SMF24NPS	NUMBER OF PRODUCT SECTIONS
44	(2C)	BITSTRING	4	SMF24OGN	OFFSET TO GENERAL SECTION
48	(30)	BITSTRING	2	SMF24LGN	LENGTH OF GENERAL SECTION
50	(32)	BITSTRING	2	SMF24NGN	NUMBER OF GENERAL SECTIONS
52	(34)	BITSTRING	4	SMF24OSP	OFFSET TO SPOF SECTION
56	(38)	BITSTRING	2	SMF24LSP	LENGTH OF SPOF SECTION
58	(3A)	BITSTRING	2	SMF24NSP	NUMBER OF SPOF SECTIONS
60	(3C)	BITSTRING	4	SMF24OSW	OFFSET TO ESS SECTION
64	(40)	BITSTRING	2	SMF24LSW	LENGTH OF ESS SECTION
66	(42)	BITSTRING	2	SMF24NSW	NUMBER OF ESS SECTIONS
68	(44)	BITSTRING	4	SMF24OSA	Offset to sysaff section
72	(48)	BITSTRING	2	SMF24LSA	Length of sysaff section
74	(4A)	BITSTRING	2	SMF24NSA	Number of sysaff sections
74	(4A)	X'28	0	SMF24TRP	** -SMF24TPS" LENGTH OF TRIPLETS
74	(4A)	X'5	0	SMF24NTP	"SMF24TRP/8" NUMBER OF TRIPLETS

Comment

BEGINNING OF JES2 PRODUCT SECTION

End of Comment

76	(4C)	CHARACTER	2	SMF24PVR	RECORD VERSION
78	(4E)	CHARACTER	8	SMF24PNM	PRODUCT NAME
86	(56)	BITSTRING	2	SMF24RS2	RESERVED

Comment

GENERAL SECTION FOR SPOOL OFFLOAD DEVICES

End of Comment

88	(58)	BITSTRING	2	SMF24GLN	LENGTH OF GENERAL SECTION
90	(5A)	BITSTRING	1	SMF24BCF	BUFFER CONTINUATION FLAG

\$SMF Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
90	(5A)	BITSTRING	0	SMF24FST	"B'10000000" FIRST SMF BUFFER FOR JOB
90	(5A)	BITSTRING	0	SMF24CON	"B'01000000" SMF BUFFER CONTINUED
90	(5A)	BITSTRING	0	SMF24LST	"B'00100000" LAST SMF BUFFER - END OF JOB
91	(5B)	BITSTRING	1	SMF24EOJ	END OF JOB FLAG
91	(5B)	BITSTRING	0	SMF24COM	"B'10000000" JOB COMPLETELY OFFLOADED
91	(5B)	BITSTRING	0	SMF24SDS	"B'01000000" JOB COMPLETED WITH SKIPPED DATA SETS
91	(5B)	BITSTRING	0	SMF24INJ	"B'00100000" INCOMPLETE JOB OFFLOADED
91	(5B)	BITSTRING	0	SMF24OPR	"B'00010000" OPERATOR CANCELED JOB
92	(5C)	CHARACTER	8	SMF24JBN	JOB NAME
100	(64)	CHARACTER	8	SMF24JID	ORIGINAL JOB IDENTIFICATION
108	(6C)	CHARACTER	8	SMF24CJD	CURRENT JOB IDENTIFICATION
116	(74)	CHARACTER	4	SMF24SYS	SYSTEM ID
120	(78)	CHARACTER	44	SMF24DSN	OFFLOAD DATA SET NAME
164	(A4)	BITSTRING	4	SMF24CNT	NUMBER OF RECORDS DUMPED/LOADED
168	(A8)	BITSTRING	4	SMF24TDS	TIME OFFLOAD DATA SET ALLOCATED
172	(AC)	BITSTRING	4	SMF24DDS	DATE OFFLOAD DATA SET ALLOCATED
176	(B0)	CHARACTER	8	SMF24ORG	ORIGIN NODE
184	(B8)	BITSTRING	4	SMF24TRD	TIME ON READER
188	(BC)	BITSTRING	4	SMF24DRD	DATE ON READER

Comment

EITHER THE JOB SECTION OR THE SYSOUT SECTION IS WRITTEN,
NOT BOTH. THE SPOF TRIPLET REFERS TO WHICHEVER ONE IS WRITTEN
IN THE CURRENT RECORD.

JOB SELECTION CRITERIA SECTION

End of Comment

192	(C0)	BITSTRING	2	SMF24LN1	LENGTH OF JOB SECTION
194	(C2)	BITSTRING	1	SMF24JFG	JOB FLAGS
194	(C2)	BITSTRING	0	SMF24JHL	"B'10000000" HELD JOB
194	(C2)	BITSTRING	0	SMF24AFF	"B'01000000" AFFINITY = ANY
195	(C3)	CHARACTER	1	SMF24JCL	JOB CLASS
196	(C4)	SIGNED	4	SMF24JRT (0)	ROUTE CODE
196	(C4)	CHARACTER	8	SMF24JND	NODE NAME
204	(CC)	CHARACTER	28	SMF24JAF	AFFINITY SYSTEM ID'S
232	(E8)	CHARACTER	1	SMF24EJS (0)	End of job selection

Comment

SYSOUT SELECTION CRITERIA SECTION

End of Comment

192	(C0)	BITSTRING	2	SMF24LN2	LENGTH OF SYSOUT SECTION
194	(C2)	BITSTRING	1	SMF24SFG	SYSOUT FLAGS
194	(C2)	BITSTRING	0	SMF24SHL	"B'10000000" HELD SYSOUT
194	(C2)	BITSTRING	0	SMF24SBT	"B'01000000" BURSTED SYSOUT
194	(C2)	BITSTRING	0	SMF24SJH	"B'00100000" HELD JOB
194	(C2)	BITSTRING	0	SMF24INC	"B'00010000" INCOMPLETE DATA SET
194	(C2)	BITSTRING	0	SMF24MUL	"B'00001000" MULTI-DEST DATA SET
195	(C3)	CHARACTER	1	SMF24SCL	SYSOUT CLASS
196	(C4)	SIGNED	4	SMF24SRT (0)	ROUTE CODE
196	(C4)	CHARACTER	8	SMF24SND	NODE NAME
204	(CC)	CHARACTER	8	SMF24SRN	REMOTE NAME
212	(D4)	CHARACTER	4	SMF24FCB	FCB
216	(D8)	CHARACTER	8	SMF24FOR	FORMS
224	(E0)	CHARACTER	4	SMF24FLS	FLASH
228	(E4)	CHARACTER	8	SMF24PRM	PR MODE
236	(EC)	CHARACTER	4	SMF24UCS	UCS
240	(F0)	CHARACTER	8	SMF24WID	WRITER
248	(F8)	BITSTRING	4	SMF24REC	DATA SET RECORD COUNT
252	(FC)	BITSTRING	1	SMF24PRY	PRIORITY
252	(FC)	X'C	0	SMF24PRD	"SMF24RS2+L'SMF24RS2-SMF24PVR" LEN OF PRODUCT SEC

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description	
252	(FC)	X'68	'	0	SMF24LN	"SMF24DRD+L'SMF24DRD-SMF24GLN" LEN OF GENERAL SEC
252	(FC)	X'28	'	0	SMF24L1	"SMF24JAF+L'SMF24JAF-SMF24LN1" LEN OF JOB SEL SEC
252	(FC)	X'3D	'	0	SMF24L2	"SMF24PRY+L'SMF24PRY-SMF24LN2" LEN OF SYSOUT SEC
252	(FC)	X'44	'	0	SMF24POF	"SMF24LHD+SMF24TRP" OFFSET TO PRODUCT SECTION
252	(FC)	X'50	'	0	SMF24GOF	"SMF24POF+SMF24PRD" OFFSET TO GENERAL SECTION
252	(FC)	X'B8	'	0	SMF24SOF	"SMF24GOF+SMF24LN" OFFSET TO SPOF SECTION
252	(FC)	X'E0	'	0	SMF24AOF	"SMF24SOF+SMF24L1" Offset to aff section

Comment

Enhanced SYSOUT Support (ESS) Ssection
 This section contains the OUTPUT descriptor (if any) in SWBTU format (IEFSJPFx plus text units) for the first offloaded data set included in this SMF record. The SWBTU may be processed using the SWBTUREC macro or other Scheduler JCL Facility (SJF) services.

End of Comment

253	(FD)	BITSTRING	2	SMF24LN3	LENGTH OF ESS SECTION	
255	(FF)	BITSTRING	4	SMF24SGT	SEGMENT IDENTIFIER	
259	(103)	BITSTRING	1	SMF24IND	ESS SECTION INDICATOR	
259	(103)	BITSTRING	0	SMF24SJF	"B'10000000" ERROR OBTAINING SWBTU (SWBTU DATA NOT PRESENT)	
260	(104)	BITSTRING	1		RESERVED	
261	(105)	CHARACTER	8	SMF24JDT	JDVT NAME	
269	(10D)	BITSTRING	2	SMF24TUL	SWBTU DATA AREA LENGTH	
271	(10F)	CHARACTER	1	SMF24TU (0)	SWBTU DATA AREA	
271	(10F)	X'12	'	0	SMF24ESL	**SMF24LN3" Length of the fixed portion of the ESS section

Comment

Enhanced SYSTEM AFFINITY support section.
 This section contains the system names for all the systems for which this job has affinity. The one exception is if it has an affinity of ANY in which case the flag bit SMF24AFF is on.

End of Comment

232	(E8)	BITSTRING	2	SMF24LS4	Length of sysaff section	
234	(EA)	BITSTRING	2		Reserved for future IBM use	
236	(EC)	BITSTRING	4	SMF24SAN	Number of system affinities	
240	(F0)	BITSTRING	4	SMF24LN4	Length of system name	
244	(F4)	CHARACTER	1	SMF24SAC (0)	Start of system aff. names	
244	(F4)	X'C	'	0	SMF24SAL	**SMF24LS4" Length of the fixed portion of the SYS. AFF SECTION

\$SMF Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>%IFABGN1: ; METHOD OF ACCESS PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE INCLUDE MACRO FROM LIBRARY EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP- DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD A DIAGNOSTIC. THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER RECORDS AS FOLLOWS: MACRO RECORDS IFASMFR1 07-19 IFASMFR2 20-27 IFASMFR3 28-36 IFASMFR4 37-46 IFASMFR5 47-54 IFASMFR6 55-69 IFASMFR9 80-84 IFASMFR10 85-103 IFASMFR11 104-113 IFASMFR12 114-123 IFASMFR13 124-127</p>					
<p>%GOTO IFABGN2; THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS IFASMFR &RECTYPE NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1). %IAZPRO26: ; MODULE NAME = IAZSMF26 DESCRIPTIVE NAME = JES SMF PURGE RECORD %GOTO IAZ26; SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC THIS RECORD IS WRITTEN WHEN A JOB IS READY TO BE PURGED FOR BOTH FOREGROUND AND BACKGROUND JOBS IN THE SYSTEM.</p>					
End of Comment					
8	(8)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDRY
8	(8)	X'8	0	SMFRCD26	*** START OF RECORD
8	(8)	X'8	0	SMF26PTR	*** HEADER SEGMENT (LGTH 46 WITHOUT RDW)
8	(8)	BITSTRING	2	SMF26LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF26SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF26FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF26RTY	RECORD TYPE 26
13	(D)	X'1A	0	SMFJ26	"26" PURGE RECORD TYPE
14	(E)	BITSTRING	4	SMF26TME	TOD FROM TIME MACRO BINARY
18	(12)		4	SMF26DTE	DATE FROM TIME MACRO
22	(16)	CHARACTER	4	SMF26SID	SYSTEM INDICATOR
26	(1A)	CHARACTER	8	SMF26JBN	JOB NAME
34	(22)	BITSTRING	4	SMF26RST	RDR START TIME, TIME JOB CARD 1ST READ
38	(26)		4	SMF26RSD	READER START DATE
42	(2A)	CHARACTER	8	SMF26UIF	USER IDENTIFICATION FIELD
50	(32)	BITSTRING	4	SMF26RSV	RESV
54	(36)	BITSTRING	2	SMF26SBS	SUBSYSTEM GENERATING ID(JES2=2, JES3=5)
54	(36)	BITSTRING	0	SMF26HSP	"X'0002" JES2 ID
56	(38)	BITSTRING	2	SMF26IND	INDICATORS
		....		SMF26DES	"X'8000" DESCRIPTIVE SECTION PRESENT
		....		SMF26EVT	"X'4000" EVENT SECTION PRESENT
		....		SMF26ATU	"X'2000" ACTUALS SECTION PRESENT
		....		SMF26NTW	"X'1000" JES2 Network section present

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... ....		SMF26J2R	"X'0800" JES2 ROUTING SECTION PRESENT
		.... ....		SMF26JXP	"X'0400" JES PRINTER SECTION PRESENT
		.... ....		SMF26R02	"X'0200" Reserved
		.... ....		SMF26ACP	"X'0100" Triplets Section present
Comment					
BEGINNING OF DESCRIPTIVE SECTION					
End of Comment					
58	(3A)	BITSTRING	2	SMF26LN1	LGTH OF THIS SECTION INCLUDING SELF
60	(3C)	BITSTRING	2	SMF26RV1	RESV
62	(3E)	BITSTRING	1	SMF26IN2	ADDITIONAL JOB INFORMATION(JES2 ONLY)
62	(3E)	BITSTRING	0	SMF26BCH	"X'80" BIT 0 - BACKGROUND BATCH
62	(3E)	BITSTRING	0	SMF26FTS	"X'40" 1 - FOREGROUND TIME SHARING
62	(3E)	BITSTRING	0	SMF26STK	"X'20" 2 - SYSTEM TASK
62	(3E)	BITSTRING	0	SMF26NOJ	"X'10" 3 - NO JOURNAL OPTION
62	(3E)	BITSTRING	0	SMF26NOU	"X'08" 4 - NO OUTPUT OPTION
62	(3E)	BITSTRING	0	SMF26SCN	"X'04" 5 - TYPRUN=SCAN
62	(3E)	BITSTRING	0	SMF26CPY	"X'02" 6 - TYPRUN=COPY
62	(3E)	BITSTRING	0	SMF26JBF	"X'01" 7 - RESTART=Y
62	(3E)	BITSTRING	1	SMF26IN3	ADDITIONAL JOB INFORMATION(JES3 ONLY)
62	(3E)	BITSTRING	0	SMF26DJC	"X'80" BIT 0 - DEPENDENT JOB(/ NET JOB PROCESSED)
62	(3E)	BITSTRING	0	SMF26DLJ	"X'40" 1 - JOB SPECIFIED DEADLINE SCHEDULING
62	(3E)	BITSTRING	0	SMF26DLM	"X'20" 2 - DEADLINE JOB MET DEADLINE
62	(3E)	BITSTRING	0	SMF26PRJ	"X'10" 3 - / PROCESS STMT PROCESSED
62	(3E)	BITSTRING	0	SMF26NJX	"X'08" 4 - JOB LEFT SYSTEM VIA NJP(NETWORK JOB PROCESSING)
62	(3E)	BITSTRING	0	SMF26NJE	"X'04" 5 - JOB ENTERED SYSTEM VIA NJP
62	(3E)	BITSTRING	0	SMF26DJO	"X'02" 6 - JOB LEFT SYSTEM VIA DJ(DUMP JOB)
62	(3E)	BITSTRING	0	SMF26DJE	"X'01" 7 - JOB ENTERED SYSTEM VIA DJ
63	(3F)	BITSTRING	1	SMF26INF	JOB INFORMATION
63	(3F)	BITSTRING	0	SMF26JCP	"X'80" 0 - JOB PRIORITY EXTERNALLY ASSIGNED (JES2-VIA PRIORITY STMT) (JES3-VIA PRTY PARM ON JOB STMT)
63	(3F)	BITSTRING	0	SMF26STU	"X'40" 1 - SETUP JOB (JES2- SETUP STMT PROCESSED) (JES3-PROCESSED BY PREEXEC SETUP)
63	(3F)	BITSTRING	0	SMF26TRH	"X'20" 2 - JOB HELD VIA TYPERUN=HOLD
63	(3F)	BITSTRING	0	SMF26NLG	"X'10" 3 - JOB REQUESTED NO JES JOB LOG(JES2)
63	(3F)	BITSTRING	0	SMF26XBC	"X'08" 4 - EXEC BATCHING JOB (JES2 ONLY)
63	(3F)	BITSTRING	0	SMF26EIR	"X'04" 5 - JOB ENTERED VIA INTERNAL RDR
63	(3F)	BITSTRING	0	SMF26MRE	"X'02" 6 - JOB WAS RERUN BY JES
63	(3F)	BITSTRING	0	SMF26OPC	"X'01" 7 - OPER CANCELLED JOB BY JES CMND
64	(40)	CHARACTER	4	SMF26JNM	JES ASSIGNED JOB #
68	(44)	CHARACTER	8	SMF26JID	8-character job identifier
76	(4C)	CHARACTER	20	SMF26NAM	PROGRAMMER'S NAME FROM JOB CARD
96	(60)	CHARACTER	1	SMF26MSG	MESSAGE CLASS FROM JOB CARD
97	(61)	CHARACTER	1	SMF26CLS	JOB CLASS FROM JOB CARD
98	(62)	BITSTRING	1	SMF26XPI	INITIAL JOB PRIORITY
99	(63)	BITSTRING	1	SMF26XPS	SELECTION PRIORITY AT TIME JOB SELECTED
100	(64)	BITSTRING	1	SMF26IX2	Additional JOB information (JES2 ONLY)
100	(64)	BITSTRING	0	SMF26JDL	"X'80" Job delayed (at least once) due to duplicate jobname
100	(64)	BITSTRING	0	SMF26JOL	"X'40" Job purged as a result of spool offload
101	(65)	BITSTRING	1	SMF26OPS	Reserved
102	(66)	BITSTRING	2	SMF26LOC	INPUT ROUTE CODE OR ZERO (JES2 ONLY)
100	(64)	BITSTRING	4	SMF26RV8	RESERVED(JES3)
104	(68)	CHARACTER	8	SMF26DEV	LOG INPUT DEV NAME OF WHERE JOB READ USERID IF TSO SUBMIT SYSTEM NAME IF NJP
112	(70)	CHARACTER	4	SMF26ACT	PROGRAMMER'S ACCOUNTING # (JES2 ONLY)
116	(74)	CHARACTER	4	SMF26ROM	PROGRAMMER'S ROOM # (JES2 ONLY)
112	(70)	BITSTRING	8	SMF26RVA	RESERVED(JES3)
120	(78)	BITSTRING	4	SMF26XTM	ESTIMATED EXECUTION TIME(SEC)
124	(7C)	BITSTRING	4	SMF26ELN	ESTIMATED OUTPUT LINES
128	(80)	BITSTRING	4	SMF26EPU	ESTIMATED OUTPUT PUNCHED CARDS

\$SMF Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
128	(80)	X'84	1	SMF26J2D	*** JES2 ONLY DESCRIPTIVE SECTION
132	(84)	CHARACTER	4	SMF26FRM	DEFAULT OUTPUT FORM #
136	(88)	BITSTRING	2	SMF26CYP	PRINT COPY COUNT IF FOR ALL OF JOB
138	(8A)	BITSTRING	2	SMF26LIN	LINES PER PAGE
140	(8C)	BITSTRING	2	SMF26PRR	DEFAULT PRINT DESTINATION
142	(8E)	BITSTRING	2	SMF26PUR	DEFAULT PUNCH DESTINATION
144	(90)	CHARACTER	8	SMF26PDD	JES2 PROC DDNAME FOR JCL CONVERSION
132	(84)	X'84	1	SMF26J3D	*** JES3 ONLY DESCRIPTIVE SECTION
132	(84)	CHARACTER	1	SMF26DTY	DEADLINE SCHEDULE TYPE
133	(85)	BITSTRING	3	SMF26RV6	RESERVED
136	(88)	CHARACTER	8	SMF26IGP	LOG INPUT DEV GROUP NAME(JOB SOURCE)
144	(90)	CHARACTER	8	SMF26PD3	PROCEDURE DD NAME
152	(98)	CHARACTER	8	SMF26NJO	SYS NAME TO WHICH JOB SENT VIA NJP
160	(A0)	CHARACTER	8	SMF26NJI	SYS FROM WHICH JOB RECEIVED VIA NJP
168	(A8)	CHARACTER	8	SMF26NET	ID OF DEPENDENT JOB NET TO WHICH THIS JOB BELONGS(FROM / NET STMT)
176	(B0)	BITSTRING	4	SMF26DTM	DEADLINE SCHEDULE TIME
180	(B4)	BITSTRING	4	SMF26DDT	DEADLINE SCHEDULE DATE
184	(B8)	CHARACTER	8	SMF26CLN	JOB CLASS NAME

Comment

BEGINNING OF EVENT SECTION

End of Comment

58	(3A)	BITSTRING	2	SMF26LN2	LGTH OF THIS SECTION(INCLUDING SELF)
60	(3C)	BITSTRING	2	SMF26RV2	RESV
62	(3E)	BITSTRING	4	SMF26RPT	READER STOP TIME
66	(42)	BITSTRING	4	SMF26RPD	READER STOP DATE
70	(46)	BITSTRING	4	SMF26CST	CONVERTER START TIME
74	(4A)	BITSTRING	4	SMF26CSD	CONVERTER START DATE
78	(4E)	BITSTRING	4	SMF26CPT	CONVERTER STOP TIME
82	(52)	BITSTRING	4	SMF26CPD	CONVERTER STOP DATE
86	(56)	BITSTRING	4	SMF26XST	EXECUTION START TIME
90	(5A)	BITSTRING	4	SMF26XSD	EXECUTION START DATE
94	(5E)	BITSTRING	4	SMF26XPT	EXECUTION STOP TIME
98	(62)	BITSTRING	4	SMF26XPD	EXECUTION STOP DATE
102	(66)	BITSTRING	4	SMF26OST	OUTPUT PROCESSOR START TIME
106	(6A)	BITSTRING	4	SMF26OSD	OUTPUT PROCESSOR START DATE
110	(6E)	BITSTRING	4	SMF26OPT	OUTPUT PROCESSOR STOP TIME
114	(72)	BITSTRING	4	SMF26OPD	OUTPUT PROCESSOR STOP DATE

Comment

BEGINNING OF ACTUALS SECTION

JES2 creates the Actuals section only up to (and including) SMF26OID. The fields from SMF26JAF to SMF26SRC are filled in by JES3. The block from NJEJMR to NJEJMREN contains some JES3 networking information but it is part of the Actuals section.

End of Comment

58	(3A)	BITSTRING	2	SMF26LN3	LGTH OF THIS SECTION(INCLUDING SELF)
60	(3C)	BITSTRING	2	SMF26RV4	RESV
62	(3E)	BITSTRING	4	SMF26ICD	# OF INPUT CARDS (JCL AND DATA)
66	(42)	BITSTRING	4	SMF26XLN	OUTPUT LINES GENERATED TO SPOOL
70	(46)	BITSTRING	4	SMF26XPU	OUTPUT PUNCH CARDS GENERATED TO SPOOL
74	(4A)	CHARACTER	4	SMF26RID	INPUT PROCESSOR SYSTEM ID
78	(4E)	CHARACTER	4	SMF26CID	JCL CONVERSION PROCESSOR SYSTEM ID
82	(52)	CHARACTER	4	SMF26XID	EXECUTION PROCESSOR SYSTEM ID
86	(56)	CHARACTER	4	SMF26OID	OUTPUT PROCESSOR SYSTEM ID
90	(5A)	CHARACTER	42	SMF26JAF	Job accounting fields - maximum length 42 - filled in by JES3 only
132	(84)	SIGNED	4	NJEJMR (0)	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
132	(84)	CHARACTER	8	NJEJMRID	
140	(8C)	SIGNED	2	NJEJMRLN	- LENGTH OF NJEJMR

Comment

COMPATIBILITY CODE

NJEJOBNO is maintained for compatibility with pre-HJS7705 levels of JES3. Once HJS7703 and below are no longer supported, this field does not need to be maintained.

End of Comment

142	(8E)	SIGNED	2	NJEJOBNO	Origin node job number (compatible) - contains FFFF if NJEJOBNO > 65534
144	(90)	CHARACTER	8	NJEJOBNM	- JOB NAME
152	(98)	CHARACTER	8	NJEJEQN	- EXECUTION NODE
160	(A0)	CHARACTER	20	NJEPRGMR	- PROGRAMMER NAME
180	(B4)	CHARACTER	8	NJEUSRID	- TSO USER ID
188	(BC)	CHARACTER	8	NJEACCT	- NETWORK ACCT NUM
196	(C4)	CHARACTER	8	NJEDEPT	- PROGRAMMER DEPT NUM
204	(CC)	CHARACTER	8	NJEBLDG	- PROGRAMMER BLDG NUM
212	(D4)	CHARACTER	8	NJEROOM	- PROGRAMMER ROOM NUM
220	(DC)	CHARACTER	8	NJEEXQU	- EXECUTION USER ID

Comment

COMPATIBILITY CODE

NJETRANS is maintained for compatibility with pre-HJS7705 levels of JES3. Once HJS7703 and below are no longer supported, this field does not need to be maintained.

End of Comment

228	(E4)	SIGNED	4	NJETRANS (0)	Maintained for compile compatibility
228	(E4)	SIGNED	4	NJEJOBNO	Origin node job number, extended
232	(E8)	SIGNED	4	NJEJMREN (0)	
232	(E8)	BITSTRING	0	NJEJMRSZ (0)	
232	(E8)	CHARACTER	4	SMF26SRC	NUMBER OF SPOOL RECORDS

Comment

Beginning of JES2 Network section

End of Comment

58	(3A)	BITSTRING	2	SMF26LN4	LENGTH OF THIS SECTION(INCLUDING SELF)
60	(3C)	BITSTRING	2	SMF26RV5	RESERVED
62	(3E)	CHARACTER	4	SMF26NID	JOB TRANSMITTER SYSTEM IDENTIFIER
66	(42)	BITSTRING	4	SMF26NST	JOB TRANSMITTER START TIME
70	(46)	BITSTRING	4	SMF26NSD	JOB TRANSMITTER START DATE
74	(4A)	BITSTRING	4	SMF26NPT	JOB TRANSMITTER STOP TIME
78	(4E)	BITSTRING	4	SMF26NPD	JOB TRANSMITTER STOP DATE
82	(52)	CHARACTER	8	SMF26NAC	NETWORK ACCOUNTING NUMBER
90	(5A)	CHARACTER	8	SMF26NJB	Original job identification
98	(62)	CHARACTER	8	SMF26NDV	JOB TRANSMITTER DEVICE NAME
106	(6A)	CHARACTER	8	SMF26NON	Original node name
114	(72)	CHARACTER	8	SMF26NXN	EXECUTION NODE NAME
122	(7A)	CHARACTER	8	SMF26NNM	NEXT NODE NAME
130	(82)	CHARACTER	8	SMF26NLN	LAST NODE NAME
138	(8A)	CHARACTER	8	SMF26SUI	Submitting Userid
146	(92)	CHARACTER	8	SMF26NN	JOB End Execution Notify Node
154	(9A)	CHARACTER	8	SMF26NU	Job End Execution Notify Userid
58	(3A)	BITSTRING	2	SMF26LN5	LGTH OF THIS SECTION
60	(3C)	CHARACTER	4	SMF26INR	INPUT ROUTING
64	(40)	CHARACTER	4	SMF26PRD	DEFAULT PRINT DESTINATION

\$SMF Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
68	(44)	CHARACTER	4	SMF26PUD	DEFAULT PUNCH DESTINATION
58	(3A)	BITSTRING	2	SMF26LN6	LGTH OF THIS SECTION
60	(3C)	CHARACTER	4	SMF26EBT	ESTIMATED BYTE COUNT
64	(40)	CHARACTER	4	SMF26XBT	ACTUAL BYTE COUNT
68	(44)	CHARACTER	4	SMF26EPG	ESTIMATED PAGE COUNT
72	(48)	CHARACTER	4	SMF26XPG	ACTUAL PAGE COUNT
76	(4C)	CHARACTER	8	SMF26EFM	EXPANDED FORMS ID

Comment

This is the header for all future extensions to the SMF 26 record. Sections beyond this point must be accessed by using the values stored in the triplets (below) that contain the offset, length, and number of sections of the type corresponding to the triplet. New sections will be appended to this header and their presence can be detected by an increase in the number of triplets and by a non-zero section offset, length and number of sections.

Each offset to a section is added to the address of SMFRCD26 to obtain the start of the section that it locates.

End of Comment

58	(3A)	BITSTRING	2	SMF26LN7	Length of triplet section
60	(3C)	SIGNED	4	SMF26OAG	Offset of accounting section
64	(40)	BITSTRING	2	SMF26LAG	Length of accounting section
66	(42)	BITSTRING	2	SMF26NAG	Number of accounting sections
68	(44)	SIGNED	4	SMF26OWL	Offset of Work Load Manager section
72	(48)	BITSTRING	2	SMF26LWL	Length of Work Load Manager section
74	(4A)	BITSTRING	2	SMF26NWL	Number of Work Load Manager sections
76	(4C)	CHARACTER	8	SMF26WCL	Service class queue name
84	(54)	CHARACTER	8	SMF26WOC	Original Service class
92	(5C)	BITSTRING	1	SMF26WIN	Indicators
92	(5C)	BITSTRING	0	SMF26WLM	"B'10000000" Job ran in MODE=WLM
92	(5C)	BITSTRING	0	SMF26SJB	"B'01000000" Job ran because of the \$S J JES2 command or the *F,J=job,RUN JES3 command
93	(5D)	CHARACTER	8	SMF26WJC	Eight character job class
101	(65)	CHARACTER	16	SMF26WSE	Scheduling environment (SCHENV)
117	(75)	BITSTRING	2	SMF26LN8	Length of Accounting Section
119	(77)	SIGNED	1	SMF26NRA	Number of accounting pairs that follow

Comment

Accounting pairs are of the form:
AL1(length),C'string of length "length"
A length of 0 indicates an omitted field

End of Comment

120	(78)	SIGNED	1	SMF26AC1 (0)
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Comment

LENGTH EQUATES

End of Comment

120	(78)	X'5E	'	0	SMF26L1	"SMF26PDD+L'SMF26PDD-SMF26LN1" DESCRIPTIVE SECT LEN
120	(78)	X'3C	'	0	SMF26L2	"SMF26OPD+L'SMF26OPD-SMF26LN2" EVENT SECTION LENGTH
120	(78)	X'20	'	0	SMF26L3	"SMF26OID+L'SMF26OID-SMF26LN3" ACTUALS SECTION LEN
120	(78)	X'68	'	0	SMF26L4	"SMF26NU+L'SMF26NU-SMF26LN4" NETWORK SECTION LEN

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
120	(78)	X'E	'	0	SMF26L5	"SMF26PUD+L'SMF26PUD-SMF26LN5" ROUTING SECTION LEN
120	(78)	X'1A	'	0	SMF26L6	"SMF26EFM+L'SMF26EFM-SMF26LN6" PRINT SECTION LEN
120	(78)	X'12	'	0	SMF26L7	"SMF26NWL+L'SMF26NWL-SMF26LN7" Triplets sect len
120	(78)	X'29	'	0	SMF26L9	"SMF26WSE+L'SMF26WSE-SMF26WCL" WLM section len
Comment						
<p>SMF26L10 is used for the total length of the triplet section and any fixed length section that may follow. This equate is used to ensure compatability between a low level JES assembled with a higher level BCP maclib. For example, a HJE5520 JES2 assembled with a JBB6604 BCP will include the WLM triplet section as part of the SMF26L10 equate. If new triplet sections are added in the future, the SMF26L10 equate must be changed to add the length of the new section.</p>						
End of Comment						
120	(78)	X'3B	'	0	SMF26L10	"SMF26L7+SMF26L9" Triplet + WLM len
120	(78)	X'10	'	0	SMF26SZ1	"L'SMF26JBN+L'SMF26RST+L'SMF26RSD" LENGTH OF JOB NAME, AND RDR START TIME AND DATE FOR MOVE
120	(78)	X'4C	'	0	SMF26SZ2	"SMF26NLN+L'SMF26NLN-SMF26NID" LEN OF NETWORK FIELDS
120	(78)	X'8	'	0	SMF26SZ3	"L'SMF26RPT+L'SMF26RPD" LEN OF RDR FIELDS FOR MOVE
120	(78)	X'4	'	0	SMF26SZ4	"L'SMF26PRR+L'SMF26PUR" LEN OF PRPU ROUTES FOR MOVE
120	(78)	X'4F	'	0	SMF26SZ5	"SMF26NU+L'SMF26NU-SMF26NAC-1" LEN OF NET FIELDS
120	(78)	X'32	'	0	SMF26LN	"SMF26IND+L'SMF26IND-SMF26LEN" LEN OF BASE + HEADER
120	(78)	X'7C	'	0	SMF26TLN	"SMF26LN+SMF26L1+SMF26L2+SMF26L3+SMF26L4+SMF26L5+SMF26L6" TOTAL LENGTH OF TYPE 26 RECORD
Comment						

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%IFABGN1: ;
METHOD OF ACCESS
PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
INCLUDE MACRO FROM LIBRARY
EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
%INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
A DIAGNOSTIC.

THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT
ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
RECORDS AS FOLLOWS:
MACRO RECORDS
IFASMFR1 07-19
IFASMFR2 20-27
IFASMFR3 28-36
IFASMFR4 37-46
IFASMFR5 47-54
    
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\$SMF Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		IFASMFR6 55-69			
		IFASMFR9 80-84			
		IFASMFRA 85-103			
		IFASMFRB 104-113			
		IFASMFR6 114-123			
		IFASMFRD 124-127			
%GOTO IFABGN2;					
THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS					
IFASMFR &RECTYPE					
NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1).					
%IAZPRO43; ;					
MODULE NAME = IAZSMF43					
DESCRIPTIVE NAME = JES SMF SUBSYSTEM START RECORD					
%GOTO IAZ43;					
SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC					
SUBSYSTEM START RECORD TYPE 43					
End of Comment					
8	(8)	SIGNED	4	(0)	ALIGNMENT TO FULL WORD BOUNDRY
8	(8)	X'8	0	SMFRCD43	*** START OF RECORD
8	(8)	X'8	0	SMF43PTR	*** HEADER SEGMENT
8	(8)	BITSTRING	2	SMF43LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF43SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF43FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF43RTY	RECORD TYPE 43
13	(D)	X'2B	0	SMFJ43	"43" START SUBSYSTEM RECORD TYPE
14	(E)	BITSTRING	4	SMF43TME	TOD FROM TIME MACRO BINARY
18	(12)		4	SMF43DTE	DATE FROM TIME MACRO
22	(16)	CHARACTER	4	SMF43SID	SYSTEM IDENTIFIER
Comment					
SUBSYSTEM IDENTIFICATION SECTION					
End of Comment					
26	(1A)	BITSTRING	2	SMF43SBS	SUBSYSTEM IDENTIFIER
26	(1A)	BITSTRING	0	SMF43HSP	"X'0002" JES2 ID X'0005' JES3 X'0006' SS06
28	(1C)	BITSTRING	2	SMF43RSV	RESV
30	(1E)	BITSTRING	2	SMF43LRR	LGTH OF REMAINDER OF RECORD (NOT INCLUDING THIS FIELD)
30	(1E)	X'20	0	SMF43SBP	*** SUBSYSTEM SECTION BEGINNING
Comment					
JES2 AND JES3 COMMON SECTION					
End of Comment					
32	(20)	BITSTRING	2	SMF43RV1	RESV
34	(22)	BITSTRING	1	SMF43RST	START RECORD FLAGS
34	(22)	BITSTRING	0	SMF\$ESYS	"X'80" IF 1 THEN SMF43EID FIELD IS RESTART SYSTEM ID
34	(22)	BITSTRING	0	SMF43CLD	"X'80" COLD START (JES3)
34	(22)	BITSTRING	0	SMF43WRM	"X'40" WARM START
34	(22)	BITSTRING	0	SMF43HOT	"X'20" HOT START
34	(22)	BITSTRING	0	SMF43ANL	"X'10" QUEUE ANALYSIS REQUIRED
34	(22)	BITSTRING	0	SMF43GBL	"X'08" GLOBAL SYSTEM
34	(22)	BITSTRING	0	SMF43LCL	"X'04" LOCAL SYSTEM
34	(22)	BITSTRING	0	SMF43REF	"X'02" Configuration refresh was requested
34	(22)	BITSTRING	0	SMF43DSI	"X'01" DYNAMIC SYSTEM INTERCHANGE
34	(22)	X'23	0	SMF43SBG	*** JES2,JES3 UNCOMMON SECTIONS

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
JES2 SECTION					
End of Comment					
35	(23)	BITSTRING	1	SMF43OPT	JES2 OPTIONS BIT MEANING WHEN SET 0 - FORMAT THE SPOOL 1 - COLD START 2 - REQUEST INIT AUTO 3 - LIST REPLACEMENTS 4-7 RESV
36	(24)	CHARACTER	4	SMF43EID	SYSTEM ID OF SYSTEM TO BE WARMSTARTED IF &ESYS OR 0 FOR START JES 2
Comment					
JES3 SECTION					
End of Comment					
35	(23)	BITSTRING	1	SMF43RV2	RESERVED FLAGS
36	(24)	BITSTRING	1	SMF43US1	USER FLAGS
37	(25)	CHARACTER	1	SMF43NMU	INITIALIZATION DECK ORIGIN TYPE
38	(26)	CHARACTER	8	SMF43ORG	INITIALIZATION DECK ORIGIN TYPE-ORIGIN CONTENTS N-MEMBER NAME(JCL DEFAULT) M-MEMBER NAME(OPER CHOICE) U-UNIT ADDRESS(OP CHOICE)
38	(26)	X'26 00004'	0	SMF43UN4	"SMF43ORG,4" 4-Digit Device Number
38	(26)	X'26 00003'	0	SMF43UNT	"SMF43ORG,3" 3-Digit Device Number
46	(2E)	CHARACTER	4	SMF43PJ3	JES3 PROCEDURE NAME
50	(32)	CHARACTER	8	SMF43RVJ	RESERVED FOR JES3
58	(3A)	CHARACTER	4	SMF43RVU	RESERVED FOR USER
62	(3E)	BITSTRING	1	SMF43END (0)	END OF JES3 RECORD
62	(3E)	BITSTRING	0	SMF43SIZ (0)	SIZE OF JES3 SMF43 RECORD
Comment					
SS06 SECTION					
End of Comment					
32	(20)	CHARACTER	8	SMF43PRC	SS06 START PROC NAME
40	(28)	CHARACTER	73	SMF43INT	INITIALIZATION
Comment					
LENGTH EQUATES					
End of Comment					
40	(28)	X'20	0	SMF43L1	"SMF43EID+L'SMF43EID-SMF43LEN" LEN OF TYPE 43 RECORD
40	(28)	X'8	0	SMF43L2	"SMF43EID+L'SMF43EID-SMF43RV1" LEN OF JES2 SECTION

\$SMF Map

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

Comment

```
%IFABGN1: ;
METHOD OF ACCESS
PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
INCLUDE MACRO FROM LIBRARY
EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
%INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
A DIAGNOSTIC.
THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT
ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
RECORDS AS FOLLOWS:
MACRO RECORDS
IFASMFR1 07-19
IFASMFR2 20-27
IFASMFR3 28-36
IFASMFR4 37-46
IFASMFR5 47-54
IFASMFR6 55-69
IFASMFR9 80-84
IFASMFR8 85-103
IFASMFRB 104-113
IFASMFRC 114-123
IFASMFRD 124-127
```

```
%GOTO IFABGN2;
THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
REQUIRED FORMAT IS
IFASMFR &RECTYPE
NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1).
%IAZPRO45: ;
MODULE NAME = IAZSMF45
DESCRIPTIVE NAME = JES SMF SUBSYSTEM STOP RECORD
%GOTO IAZ45;
SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC
SUBSYSTEM STOP RECORD TYPE 45
```

End of Comment					
8	(8)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDRY
8	(8)	X'8	0	SMFRCD45	*** START OF RECORD
8	(8)	X'8	0	SMF45PTR	*** HEADER SEGMENT
8	(8)	BITSTRING	2	SMF45LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF45SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF45FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF45RTY	RECORD TYPE 45
13	(D)	X'2D	0	SMFJ45	"45" STOP SUBSYSTEM RECORD TYPE
14	(E)	BITSTRING	4	SMF45TME	TOD FROM TIME MACRO BINARY
18	(12)		4	SMF45DTE	DATE FROM TIME MACRO
22	(16)	CHARACTER	4	SMF45SID	SYSTEM IDENTIFICATION

Comment					
SUBSYSTEM IDENTIFICATION SECTION					
End of Comment					
26	(1A)	BITSTRING	2	SMF45SBS	SUBSYSTEM IDENTIFIER
26	(1A)	BITSTRING	0	SMF45HSP	"X'0002" JES2 ID X'0005' JES3 X'0006' SS06
28	(1C)	BITSTRING	2	SMF45RSV	RESV
30	(1E)	BITSTRING	2	SMF45LRR	LGTH OF REMAINDER OF RECORD (NOT INCLUDING THIS FIELD)
30	(1E)	X'20	0	SMF45SBG	*** SUBSYSTEM SECTION BEGINNING

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
JES2 SECTION					
End of Comment					
32	(20)	BITSTRING	2	SMF45IND	INDICATORS
32	(20)	BITSTRING	0	SMF45ATM	"X'80" BIT 0 ABNORMAL TERMINATION 1-15 RESERVED
34	(22)	BITSTRING	2	SMF45JCC	JES2 COMPLETION CODE
Comment					
JES3 SECTION					
End of Comment					
32	(20)	BITSTRING	1	SMF45FG1	STOP RECORD FLAGS
32	(20)	BITSTRING	0	SMF45ABN	"X'80" SUBSYSTEM ENDED DUE TO ABEND
32	(20)	BITSTRING	0	SMF45DSI	"X'40" DSI HAS BEEN INVOKED
33	(21)	BITSTRING	3	SMF45J3C	COMPLETION CODE(SYS/USER)
36	(24)	BITSTRING	1	SMF45RV1	RESERVED
37	(25)	BITSTRING	1	SMF45US1	USER FLAG
38	(26)	CHARACTER	8	SMF45RVJ	RESERVED FOR JES3
46	(2E)	CHARACTER	4	SMF45RVU	RESERVED FOR USER
50	(32)	BITSTRING	1	SMF45END (0)	END OF JES3 RECORD
50	(32)	BITSTRING	0	SMF45SIZ (0)	SIZE OF JES3 45 RECORD
Comment					
SS06 SECTION					
End of Comment					
32	(20)	CHARACTER	8	SMF45PRC	SS06 PROCNAME
40	(28)	BITSTRING	1	SMF45STF	SYSTEM TERMINATION FLAGS
40	(28)	X'80 '	0	SMF45HLT	"128" HALT ISSUED
40	(28)	X'40 '	0	SMF45OPS	"64" OPERATOR STOP
40	(28)	X'20 '	0	SMF45ABT	"32" ABNORMAL TERMINATION
40	(28)	X'10 '	0	SMF45NOS	"16" NOSAVE SPECIFIED IN HALT
41	(29)	BITSTRING	3	SMF45UID	USER ID FOR HALT
44	(2C)	BITSTRING	2	SMF45NUL	NO. USERS LOGGED ON AT TERMINATION
Comment					
LENGTH EQUATES					
End of Comment					
44	(2C)	X'1C '	0	SMF45L1	"SMF45JCC+L'SMF45JCC-SMF45LEN" LEN OF TYPE 45 RECORD
44	(2C)	X'4 '	0	SMF45L2	"SMF45JCC+L'SMF45JCC-SMF45IND" LEN OF JES2 SECTION

\$SMF Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
%IFABGN1: ; METHOD OF ACCESS PLS - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE INCLUDE MACRO FROM LIBRARY EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP- DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD A DIAGNOSTIC. THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER RECORDS AS FOLLOWS: MACRO RECORDS IFASMFR1 07-19 IFASMFR2 20-27 IFASMFR3 28-36 IFASMFR4 37-46 IFASMFR5 47-54 IFASMFR6 55-69 IFASMFR9 80-84 IFASMFR8 85-103 IFASMFRB 104-113 IFASMFRC 114-123 IFASMFRD 124-127					
%GOTO IFABGN2; THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS IFASMFR &RECTYPE NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1). %IAZPRO47;; MODULE NAME = IAZSMF47 DESCRIPTIVE NAME = JES SMF SUBSYSTEM EVENT START %GOTO IAZ47; SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC SUBSYSTEM EVENT START RECORD TYPE 47					
End of Comment					
8	(8)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDRY
8	(8)	X'8	0	SMFRCD47	*** START OF RECORD
8	(8)	X'8	0	SMF47PTR	*** HEADER SEGMENT
8	(8)	BITSTRING	2	SMF47LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF47SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF47FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF47RTY	RECORD TYPE 47
13	(D)	X'2F	0	SMFJ47	"47" START SUBSYSTEM EVENT ID
14	(E)	BITSTRING	4	SMF47TME	TOD FROM TIME MACRO BINARY
18	(12)		4	SMF47DTE	DATE FROM TIME MACRO
22	(16)	CHARACTER	4	SMF47SID	SYSTEM IDENTIFICATION
Comment					
SUBSYSTEM IDENTIFICATION SECTION					
End of Comment					
26	(1A)	BITSTRING	2	SMF47SBS	SUBSYSTEM IDENTIFIER
26	(1A)	BITSTRING	0	SMF47HSP	"X'0002" JES2 ID X'0005' JES3 X'0006' SS06
28	(1C)	BITSTRING	2	SMF47RSV	RESV
30	(1E)	BITSTRING	2	SMF47LRR	LGTH OF REMAINDER OF RECORD (NOT INCLUDING THIS FIELD)
30	(1E)	X'20	0	SMF47SBG	*** SUBSYSTEM SECTION BEGINNING

Offsets

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

Comment

JES2 AND JES3 SECTION

End of Comment

32	(20)	BITSTRING	2	SMF47EVT	EVENT STARTING
32	(20)	X'1 '	0	SMF47SON	"1" TERMINAL SIGNED ON
32	(20)	X'2 '	0	SMF47STL	"2" LINE STARTED
32	(20)	X'4 '	0	SMF47LON	"4" TERMINAL LOGGED ON

Comment

BEGINNING OF GENERAL SECTION

End of Comment

34	(22)	BITSTRING	2	SMF47LN1	LGTH OF THIS SECTION(INCLUDING SELF-26)
36	(24)	CHARACTER	8	SMF47RMT	REMOTE NAME
44	(2C)	CHARACTER	8	SMF47LIN	LINE NAME
52	(34)	CHARACTER	8	SMF47PSW	PASSWORD

Comment

BEGINNING OF SIGNON MESSAGE SECTION
THIS SECTION EXISTS ONLY FOR SIGNON EVENT STARTS

End of Comment

60	(3C)	BITSTRING	2	SMF47LN2	LGTH OF THIS SECTION(INCLUDING SELF-38)
62	(3E)	CHARACTER	36	SMF47MSG	MESSAGE FOR SIGNON, COLUMNS 35-70 OF SIGNON CARD.
98	(62)	CHARACTER	8	SMF47RVJ	RESERVED FOR JES3
106	(6A)	CHARACTER	4	SMF47RVU	RESERVED FOR USER
110	(6E)	BITSTRING	1	SMF47END (0)	END OF JES3 RECORD
110	(6E)	BITSTRING	0	SMF47SIZ (0)	SIZE OF JES3 47 RECORD

Comment

SS06 SECTION

End of Comment

32	(20)	BITSTRING	1	SMF47LCF	LOGON CONDITION FLAG
32	(20)	X'80 '	0	SMF47UNL	"128" USER NOT LOGGED OFF
32	(20)	X'20 '	0	SMF47CWK	"32" CONTINUE WORKSPACE EXISTED AT LOGON
32	(20)	X'4 '	0	SMF47SPA	"4" SERVICE PROGRAM ACCOUNT RECORD
32	(20)	X'1 '	0	SMF47JLK	"1" USER LOCKED
33	(21)	BITSTRING	3	SMF47UID	USER ID
36	(24)	BITSTRING	1	SMF47LTC	LIBRARY TYPE CODE
37	(25)	BITSTRING	3	SMF47PLI	PROJECT LIB ID
40	(28)	CHARACTER	6	SMF47JID	JOB ENTRY ID CODE
46	(2E)	BITSTRING	1	SMF47LAA	LANGUAGE ATTRIBUTE ASSIGNED
47	(2F)	BITSTRING	1	SMF47PCI	PRIVILEGED CLASS INDICATORS
48	(30)	BITSTRING	4	SMF47DSL	DASD SPACE IN LIBRARY (1K UNITS)
52	(34)	BITSTRING	4	SMF47DPL	DASD SPACE PROJECT/PUBLIC LIBRARIES(1K UNITS)

Comment

LENGTH EQUATES

End of Comment

32	(20)	X'1A '	0	SMF47L1	"SMF47LN2-SMF47LN1" LEN OF GENERAL SECTION
32	(20)	X'26 '	0	SMF47L2	"SMF47MSG+L'SMF47MSG-SMF47LN2" LEN OF SIGNON MSG SEC
32	(20)	X'5A '	0	SMF47L3	"SMF47MSG+L'SMF47MSG-SMF47LEN" LEN OF TYPE 47 RECORD

\$SMF Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
32	(20)	X'34	0	SMF47L4	"SMF47LN2-SMF47LEN" LEN OF RECORD - MESSAGE SECTION

Comment

%IFABGN1 ;

METHOD OF ACCESS

PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM

DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE

INCLUDE MACRO FROM LIBRARY

EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-

DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON

%INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD

A DIAGNOSTIC.

THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT

ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER

RECORDS AS FOLLOWS:

MACRO RECORDS

IFASMFR1 07-19

IFASMFR2 20-27

IFASMFR3 28-36

IFASMFR4 37-46

IFASMFR5 47-54

IFASMFR6 55-69

IFASMFR9 80-84

IFASMFR8 85-103

IFASMFRB 104-113

IFASMFRC 114-123

IFASMFRC 114-123

IFASMFRC 114-123

IFASMFRC 114-123

%GOTO IFABGN2;

THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE

REQUIRED FORMAT IS

IFASMFR &RECTYPE

NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1).

%IAZPRO48 ;

MODULE NAME = IAZSMF48

DESCRIPTIVE NAME = JES SMF SUBSYSTEM EVENT STOP RECORD

%GOTO IAZ48;

SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC

SUBSYSTEM EVENT STOP RECORD TYPE 48

End of Comment

8	(8)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDARY
8	(8)	X'8	0	SMFRCD48	*** START OF RECORD
8	(8)	X'8	0	SMF48PTR	*** HEADER SEGMENT
8	(8)	BITSTRING	2	SMF48LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF48SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF48FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF48RTY	RECORD TYPE 48
13	(D)	X'30	0	SMFJ48	"48" STOP SUBSYSTEM EVENT ID
14	(E)	BITSTRING	4	SMF48TME	TOD FROM TIME MACRO BINARY
18	(12)		4	SMF48DTE	DATE FROM TIME MACRO
22	(16)	CHARACTER	4	SMF48SID	SYSTEM IDENTIFICATION

Comment

SUBSYSTEM IDENTIFICATION SECTION

End of Comment

26	(1A)	BITSTRING	2	SMF48SBS	SUBSYSTEM IDENTIFIER
26	(1A)	BITSTRING	0	SMF48HSP	"X'0002" JES2 ID X'0005' JES3 X'0006' SS06
28	(1C)	BITSTRING	2	SMF48RSV	RESV
30	(1E)	BITSTRING	2	SMF48LRR	LGTH OF REMAINDER OF RECORD (NOT INCLUDING THIS FIELD)

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
30	(1E)	X'20	0	SMF48SBP	*** SUBSYSTEM SECTION BEGINNING
Comment					
JES2 AND JES3 COMMON SECTION					
End of Comment					
32	(20)	BITSTRING	2	SMF48EVT	TYPE OF EVENT STOPPED
32	(20)	X'1	0	SMF48SOF	"1" LINE HAS SIGNED OFF
32	(20)	X'2	0	SMF48CAN	"2" LINE CANCELLED BY OPERATOR
32	(20)	X'4	0	SMF48LOF	"4" TERMINAL LOGGED OFF
34	(22)	BITSTRING	2	SMF48RV1	RESV
36	(24)	CHARACTER	8	SMF48RMT	REMOTE NAME
44	(2C)	CHARACTER	8	SMF48LIN	LINE NAME
52	(34)	CHARACTER	8	SMF48PSW	PASSWORD
52	(34)	X'3C	0	SMF48SBG	*** JES2 AND JES3 UNCOMMON SECTIONS
Comment					
JES2 SECTION					
End of Comment					
60	(3C)	BITSTRING	4	SMF48IO	# EXCPS(NOT INCLUDING LINE REPEATS)
64	(40)	BITSTRING	4	SMF48NAK	# NAKS TO WRITE TEXT-NEG ACKNOWLEDGEMTS
68	(44)	BITSTRING	4	SMF48DCK	# DATA CHECKS TO READ TEXT
72	(48)	BITSTRING	4	SMF48OUT	# TIME OUTS TO READ TEXT
76	(4C)	BITSTRING	4	SMF48ERR	SUM OF ALL OTHER LINE ERRORS
80	(50)	CHARACTER	3	SMF48LAA	LINE ADAPTER ADDRESS FROM UCB
83	(53)	CHARACTER	4	SMF48LA4	4-Digit Line Adapter Address
Comment					
JES3 SECTION					
End of Comment					
60	(3C)	BITSTRING	28	SMF48XCP	EXCP COUNTS AND ERROR STATISTICS
60	(3C)	BITSTRING	4	SMF48TRN	NUMBER OF TRANSMISSIONS
64	(40)	BITSTRING	4	SMF48ERS	NUMBER OF LINE ERRORS
68	(44)	BITSTRING	2	SMF48TOT	NUMBER OF TIME-OUTS
70	(46)	BITSTRING	2	SMF48NKS	NUMBER OF NAK RESPONSES TO WRITE
72	(48)	BITSTRING	1	SMF48S0	NUMBER OF COMMAND REJECTS
73	(49)	BITSTRING	1	SMF48S1	NUMBER OF INTERVENTIONS REQUIRED
74	(4A)	BITSTRING	1	SMF48S2	NUMBER OF BUS-OUT CHECKS
75	(4B)	BITSTRING	1	SMF48S3	NUMBER OF EQUIPMENT CHECKS
76	(4C)	BITSTRING	1	SMF48S4	NUMBER OF DATA CHECKS
77	(4D)	BITSTRING	1	SMF48S5	NUMBER OF DATA OVERRUNS
78	(4E)	BITSTRING	1	SMF48S6	NUMBER OF LOST DATAS
79	(4F)	BITSTRING	9	SMF48USR	RESERVED FOR USER
88	(58)	CHARACTER	3	SMF48ADP	LINE ADAPTER ADDRESS
91	(5B)	CHARACTER	4	SMF48AD4	4-Digit Line Adapter Address
95	(5F)	CHARACTER	4	SMF48RVJ	Reserved for JES3
99	(63)	CHARACTER	4	SMF48RVU	RESERVED FOR USER
103	(67)	BITSTRING	1	SMF48END (0)	END OF JES3 RECORD
103	(67)	BITSTRING	0	SMF48SIZ (0)	SIZE OF JES3 48 RECORD
Comment					
SS06 SECTION					
End of Comment					
32	(20)	BITSTRING	1	SMF48FLS	LOGOFF FLAGS
32	(20)	X'80	0	SMF48RPI	"128" RECORD FOR PREVIOUS INCOMPLETE SESSION
32	(20)	X'40	0	SMF48CNI	"64" CANCEL ISSUED
32	(20)	X'20	0	SMF48CWK	"32" CONTINUE WORKSPACE SAVED

\$SMF Map

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
32	(20)	X'10	'	0	SMF48CPG	"16" CONTINUE PURGED
32	(20)	X'8	'	0	SMF48HSI	"8" HALT OR STOP ISSUED
32	(20)	X'4	'	0	SMF48SPA	"4" SERVICE PROGRAM ACCOUNT RECORD
32	(20)	X'1	'	0	SMF48ULK	"1" USER LOCKED
33	(21)	BITSTRING		3	SMF48UID	USER ID
36	(24)	BITSTRING		4	SMF48CPU	CPU TIME
40	(28)	BITSTRING		4	SMF48CNT	CONNECT TIME (SECONDS FOR THIS TERMINAL SESSION
44	(2C)	BITSTRING		4	SMF48CTH	CONNECT TIME (SECONDS) FOR THIS TERMINAL SESSION FOR ATTACHED HARDCOPY DEVICE
48	(30)	BITSTRING		4	SMF48VIR	VIRTUAL STORAGE USED (THOUSANDS OF BYTE-SECONDS) DURING TERMINAL SESSION
52	(34)	BITSTRING		4	SMF48DIO	DASD I/O COUNT FOR THIS TERMINAL SESSION
56	(38)	BITSTRING		4	SMF48TIO	TELEPROCESSING I/O COUNTS DURING TERMINAL SESSION
60	(3C)	BITSTRING		4	SMF48DSL	DASD SPACE IN THIS LIBRARY (IN 1K UNITS)
64	(40)	BITSTRING		4	SMF48DSP	DASD SPACE IN PROJECT/PUB LIBRARIES (1K UNITS)
68	(44)	BITSTRING		4	SMF48CPD	CPU TIME TO DATE (HUNDREDTHS OF SECONDS
72	(48)	BITSTRING		4	SMF48CTD	CONNECT TIME TO DATE (SECS)
76	(4C)	BITSTRING		4	SMF48CDH	CONNECT TIME FOR HARDCOPY DEVICE TO DATE (SECONDS)
80	(50)	BITSTRING		4	SMF48VSD	VIRT STORAGE USED TO DATE (THOUSANDS OF BYTE-SECONDS)
84	(54)	BITSTRING		4	SMF48DID	DASD I/O COUNTS TO DATE
88	(58)	BITSTRING		4	SMF48TID	TP I/O COUNTS TO DATE

Comment

LENGTH EQUATES

End of Comment

88	(58)	X'4F	'	0	SMF48L1	"SMF48LA4+L'SMF48LA4-SMF48LEN" Type 48 Record Len
88	(58)	X'14	'	0	SMF48CT	"SMF48ERR+L'SMF48ERR-SMF48IO" LENGTH OF LINE EVENT COUNT SECTION

Comment

```
%IFABGN1 ;
METHOD OF ACCESS
PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
INCLUDE MACRO FROM LIBRARY
EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
%INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
A DIAGNOSTIC.

THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT
ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
RECORDS AS FOLLOWS:
MACRO RECORDS
IFASMFR1 07-19
IFASMFR2 20-27
IFASMFR3 28-36
IFASMFR4 37-46
IFASMFR5 47-54
```


Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		IFASMF6 55-69			
		IFASMF9 80-84			
		IFASMFRA 85-103			
		IFASMF8 104-113			
		IFASMFRC 114-123			
		IFASMF8 124-127			

%GOTO IFABGN2;

THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS

IFASMF &RECTYPE

NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1).

%IAZPRO49; ;

MODULE NAME = IAZSMF49

DESCRIPTIVE NAME = JES SMF SUBSYSTEM INTEGRITY RECORD

%GOTO IAZ49;

SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC

SUBSYSTEM INTEGRITY RECORD TYPE 49

End of Comment					
8	(8)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDRY
8	(8)	X'8	0	SMFRCD49	*** START OF RECORD
8	(8)	X'8	0	SMF49PTR	*** HEADER SEGMENT
8	(8)	BITSTRING	2	SMF49LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF49SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF49FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF49RTY	RECORD TYPE 49
13	(D)	X'31	0	SMFJ49	"49" INTEGRITY EVENT RECORD TYPE
14	(E)	BITSTRING	4	SMF49TME	TOD FROM TIME MACRO BINARY
18	(12)		4	SMF49DTE	DATE FROM TIME MACRO
22	(16)	CHARACTER	4	SMF49SID	SYSTEM IDENTIFICATION

Comment

SUBSYSTEM IDENTIFICATION SECTION

End of Comment					
26	(1A)	BITSTRING	2	SMF49SBS	SUBSYSTEM IDENTIFIER X'0002' JES2 X'0005' JES3 X'0006' SS06
28	(1C)	BITSTRING	2	SMF49RSV	RESV
30	(1E)	BITSTRING	2	SMF49LRR	LGTH OF REMAINED OF RECORD (NOT INCLUDING THIS FIELD)
30	(1E)	X'20	0	SMF49SBG	*** SUBSYSTEM SECTION BEGINNING

Comment

JES2 AND JES3 SECTION

End of Comment					
32	(20)	BITSTRING	2	SMF49EVT	EVENT STARTING

Comment

FOLLOWING BIT DEFINITIONS APPLY TO JES2

End of Comment					
32	(20)	X'1	0	SMF49SON	"1" SIGNON
32	(20)	X'2	0	SMF49STL	"2" START LINE

Comment

FOLLOWING BIT DEFINITIONS APPLY TO JES3

End of Comment					
32	(20)	X'1	0	SMF49NER	"1" TERMINAL NOT DEFINED (BSC)

\$SMF Map

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
32	(20)	X'2	'	0	SMF49PER	"2" SECURITY FAILURE (BSC)
32	(20)	X'4	'	0	SMF49LER	"4" LINE ALREADY SIGNED ON (BSC)
32	(20)	X'8	'	0	SMF49TER	"8" TERMINAL ALREADY SIGNED ON (BSC)
32	(20)	X'5	'	0	SMF49LIM	"5" SESSION LIMIT EXCEEDED (SNA)
32	(20)	X'6	'	0	SMF49DEF	"6" WORK STATION UNDEFINED (SNA)
32	(20)	X'7	'	0	SMF49SPW	"7" SECURITY FAILURE (SNA)
32	(20)	X'8	'	0	SMF49BND	"8" BIND FAILURE (SNA)
Comment						
BEGINNING OF GENERAL SECTION						
End of Comment						
34	(22)	BITSTRING	2	SMF49LN1	LGTH OF THIS SECTION(INCLUDING SELF-26)	
36	(24)	CHARACTER	8	SMF49RMT	REMOTE NAME	
44	(2C)	CHARACTER	8	SMF49LIN	LINE NAME	
52	(34)	CHARACTER	8	SMF49PSW	PASSWORD USED(INVALID)	
Comment						
BEGINNING OF SIGNON MESSAGE SECTION						
THIS SECTION EXISTS ONLY FOR SIGNON EVENT STARTS						
End of Comment						
60	(3C)	BITSTRING	2	SMF49LN2	LGTH OF THIS SECTION(INCLUDING SELF-38)	
62	(3E)	CHARACTER	36	SMF49MSG	MESSAGE FOR SIGNON, COLUMNS 35-70 OF SIGNON CARD.	
98	(62)	BITSTRING	1	SMF49END (0)	END OF JES3 RECORD	
98	(62)	BITSTRING	0	SMF49SIZ (0)	SIZE OF JES3 49 RECORD	
Comment						
SS06 SECTION						
End of Comment						
32	(20)	BITSTRING	3	SMF49VID	VIOLATOR IDENTIFICATION	
35	(23)	BITSTRING	3	SMF49LNA	LIBRARY NUMBER OR ACCESSED LIBRARY	
38	(26)	BITSTRING	2	SMF49RV1	RESERVED	
40	(28)	CHARACTER	12	SMF49FLN	FILENAME OF FILE ATTEMPTED	
52	(34)	BITSTRING	3	SMF49UFO	USERNUMBER OF FILE OWNER	
Comment						
LENGTH EQUATES						
End of Comment						
32	(20)	X'1A	'	0	SMF49L1	"SMF49LN2-SMF49LN1" LEN OF GENERAL SECTION
32	(20)	X'26	'	0	SMF49L2	"SMF49MSG+L'SMF49MSG-SMF49LN2" LEN OF SIGNON MSG SEC
32	(20)	X'5A	'	0	SMF49L3	"SMF49MSG+L'SMF49MSG-SMF49LEN" LEN OF TYPE 49 RECORD

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

Comment

%IFABGN1: ;
 METHOD OF ACCESS
 PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
 DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
 INCLUDE MACRO FROM LIBRARY
 EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
 DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
 %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
 A DIAGNOSTIC.
 THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT
 ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
 RECORDS AS FOLLOWS:
 MACRO RECORDS
 IFASMFR1 07-19
 IFASMFR2 20-27
 IFASMFR3 28-36
 IFASMFR4 37-46
 IFASMFR5 47-54
 IFASMFR6 55-69
 IFASMFR9 80-84
 IFASMFR8 85-103
 IFASMFRB 104-113
 IFASMFRC 114-123
 IFASMFRD 124-127

%GOTO IFABGN2;
 THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
 REQUIRED FORMAT IS
 IFASMFR &RECTYPE
 NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1).
 MODULE NAME = IAZSMF52
 DESCRIPTIVE NAME = JES SMF SNA START EVENT RECORD
 SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC

End of Comment					
8	(8)	X'8'	0	SMFRCD52	*** START OF RECORD
8	(8)	X'8'	0	SMF52PTR	*** HEADER SEGMENT
8	(8)	CHARACTER	2	SMF52LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF52SEG	SEGMENT DESCRIPTOR

Comment

BEGINNING OF JMR OR HASP SMF RECORD

End of Comment					
12	(C)	BITSTRING	1	SMF52FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF52RTY	RECORD TYPE
14	(E)	BITSTRING	4	SMF52TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)		4	SMF52DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF52SID	SYSTEM IDENTIFICATION

Comment

HEADER FOR HASP SUBSYSTEM RECORD TYPE 52

End of Comment					
22	(16)	X'34'	0	SMFJ52	"52" RECORD TYPE SNA START EVENT
26	(1A)	BITSTRING	2	SMF52POF	OFFSET TO PRODUCT SECTION
28	(1C)	BITSTRING	2	SMF52PRL	LENGTH OF PRODUCT SECTION
30	(1E)	BITSTRING	2	SMF52PRN	NUMBER OF PRODUCT SECTION
32	(20)	BITSTRING	2	SMF52IDO	OFFSET TO ID SECTION
34	(22)	BITSTRING	2	SMF52IDL	LENGTH OF ID SECTION

\$SMF Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
36	(24)	BITSTRING	2	SMF52IDN	NUMBER OF ID SECTION
Comment					
PRODUCT SECTION HASP SUBSYSTEM RECORD TYPES 52					
End of Comment					
38	(26)	BITSTRING	2	SMF52SUB	SUBTYPE ID NUMBER
38	(26)	X'1 '	0	SMF52LON	"1" LOGON EVENT
38	(26)	X'2 '	0	SMF52SLN	"2" START LINE EVENT
40	(28)	CHARACTER	2	SMF52VER	RECORD VERSION NUMBER
42	(2A)	CHARACTER	4	SMF52SYS	SUBSYSTEM NAME
46	(2E)	CHARACTER	1	SMF52IDS (0)	DEFINE START OF ID SECTION
Comment					
ID SECTION OF HASP TYPE 52 (SNA) START EVENT AFTER TWO HDRS					
End of Comment					
46	(2E)	CHARACTER	8	SMF52RMT	REMOTE NAME
54	(36)	CHARACTER	8	SMF52LIN	LINE NAME
62	(3E)	CHARACTER	8	SMF52PSW	LINE PASSWORD
70	(46)	CHARACTER	1	SMF52END (0)	END OF TYPE 52 RECORD
Comment					
LENGTH EQUATES					
End of Comment					
70	(46)	X'1E '	0	SMF52OFP	"SMF52IDN+L'SMF52IDN-SMFRCD52" OFFSET TO PROD SECT
70	(46)	X'8 '	0	SMF52LPR	"SMF52SYS+L'SMF52SYS-SMF52SUB" LENGTH OF PROD SECT
70	(46)	X'26 '	0	SMF52OFI	"SMF52SYS+L'SMF52SYS-SMFRCD52" OFFSET TO ID SECT
70	(46)	X'18 '	0	SMF52LID	"SMF52PSW+L'SMF52PSW-SMF52IDS" LENGTH OF ID SECT
Comment					

%IFABGN1 ;

METHOD OF ACCESS

PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM

DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE

INCLUDE MACRO FROM LIBRARY

EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
%INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
A DIAGNOSTIC.

THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT
ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
RECORDS AS FOLLOWS:

MACRO RECORDS

IFASMFR1 07-19

IFASMFR2 20-27

IFASMFR3 28-36

IFASMFR4 37-46

IFASMFR5 47-54

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		IFASMFR6	55-69		
		IFASMFR9	80-84		
		IFASMFR A	85-103		
		IFASMFR B	104-113		
		IFASMFR C	114-123		
		IFASMFR D	124-127		

%GOTO IFABGN2;

THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS

IFASMFR &RECTYPE

NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1).

MODULE NAME = IAZSMF53

DESCRIPTIVE NAME = JES SMF SNA STOP EVENT RECORD

SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC

End of Comment

8	(8)	X'8	'	0	SMFRCD53	*** START OF RECORD
8	(8)	X'8	'	0	SMF53PTR	*** HEADER SEGMENT
8	(8)	CHARACTER		2	SMF53LEN	RECORD LENGTH
10	(A)	CHARACTER		2	SMF53SEG	SEGMENT DESCRIPTOR

Comment

BEGINNING OF JMR OR HASP SMF RECORD

End of Comment

12	(C)	BITSTRING		1	SMF53FLG	HEADER FLAG BYTE
13	(D)	BITSTRING		1	SMF53RTY	RECORD TYPE
14	(E)	BITSTRING		4	SMF53TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)			4	SMF53DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER		4	SMF53SID	SYSTEM IDENTIFICATION

Comment

HEADER FOR HASP SUBSYSTEM RECORD TYPE 53

End of Comment

22	(16)	X'35	'	0	SMFJ53	"53" RECORD TYPE SNA STOP EVENT
26	(1A)	BITSTRING		2	SMF53PRO	OFFSET TO PRODUCT SECTION
28	(1C)	BITSTRING		2	SMF53PRL	LENGTH OF PRODUCT SECTION
30	(1E)	BITSTRING		2	SMF53PRN	NUMBER OF PRODUCT SECTION
32	(20)	BITSTRING		2	SMF53IDO	OFFSET TO ID SECTION
34	(22)	BITSTRING		2	SMF53IDL	LENGTH OF ID SECTION
36	(24)	BITSTRING		2	SMF53IDN	NUMBER OF ID SECTION

Comment

PRODUCT SECTION HASP SUBSYSTEM RECORD TYPE 53

End of Comment

38	(26)	BITSTRING		2	SMF53SUB	SUBTYPE ID NUMBER
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Comment

THE FOLLOWING EQUATES APPLY TO RECORD TYPE 53

End of Comment

38	(26)	X'1	'	0	SMF53LOF	"1" LOGOFF EVENT
38	(26)	X'2	'	0	SMF53PLN	"2" STOP LINE EVENT
40	(28)	CHARACTER		2	SMF53VER	RECORD VERSION NUMBER
42	(2A)	CHARACTER		4	SMF53SYS	SUBSYSTEM NAME
46	(2E)	CHARACTER		1	SMF53IDS (0)	DEFINE START OF ID SECTION

\$SMF Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
ID SECTION OF HASP TYPE 53 (SNA) STOP EVENT AFTER TWO HDRS					
End of Comment					
46	(2E)	CHARACTER	8	SMF53RMT	REMOTE NAME
54	(36)	CHARACTER	8	SMF53LIN	LINE NAME
62	(3E)	CHARACTER	8	SMF53PSW	LINE PASSWORD
70	(46)	BITSTRING	20	SMF53CTR	LINE EVENT COUNTERS
90	(5A)	CHARACTER	3	SMF53ADP	LINE IDENTIFIER
93	(5D)	CHARACTER	1	SMF53END (0)	END OF TYPE 53 RECORD
93	(5D)	X'2F	0	SMF53LID	** -SMF53IDS" LENGTH OF ID SECTION

Comment

```
%IFABGN1 ;
METHOD OF ACCESS
PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
INCLUDE MACRO FROM LIBRARY
EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
%INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
A DIAGNOSTIC.
THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT
ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
RECORDS AS FOLLOWS:
MACRO RECORDS
IFASMFR1 07-19
IFASMFR2 20-27
IFASMFR3 28-36
IFASMFR4 37-46
IFASMFR5 47-54
IFASMFR6 55-69
IFASMFR9 80-84
IFASMFR8 85-103
IFASMFRB 104-113
IFASMFRD 114-123
IFASMFRF 124-127
```

```
%GOTO IFABGN2;
THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
REQUIRED FORMAT IS
IFASMFR &RECTYPE
NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1).
MODULE NAME = IAZSMF54
DESCRIPTIVE NAME = JES SMF SPOOL INTEGRITY EVENT RECORD
```

End of Comment					
8	(8)	X'8	0	SMFRCD54	*** START OF RECORD
8	(8)	X'8	0	SMF54PTR	*** HEADER SEGMENT
8	(8)	CHARACTER	2	SMF54LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF54SEG	SEGMENT DESCRIPTOR

Comment

BEGINNING OF JMR OR HASP SMF RECORD

End of Comment					
12	(C)	BITSTRING	1	SMF54FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF54RTY	RECORD TYPE
14	(E)	BITSTRING	4	SMF54TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)	CHARACTER	4	SMF54DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF54SID	SYSTEM IDENTIFICATION

Offsets

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

HEADER FOR HASP SUBSYSTEM RECORD TYPES 54

End of Comment

22	(16)	X'36	0	SMFJ54	"54" SPOOL INTEGRITY EVENT REC
26	(1A)	BITSTRING	2	SMF54POF	OFFSET TO PRODUCT SECTION
28	(1C)	BITSTRING	2	SMF54PRL	LENGTH OF PRODUCT SECTION
30	(1E)	BITSTRING	2	SMF54PRN	NUMBER OF PRODUCT SECTION
32	(20)	BITSTRING	2	SMF54IDO	OFFSET TO ID SECTION
34	(22)	BITSTRING	2	SMF54IDL	LENGTH OF ID SECTION
36	(24)	BITSTRING	2	SMF54IDN	NUMBER OF ID SECTION

Comment

PRODUCT SECTION HASP SUBSYSTEM RECORD TYPE 54

End of Comment

38	(26)	BITSTRING	2	SMF54SUB	SUBTYPE ID NUMBER
38	(26)	X'1	0	SMF54LON	"1" LOGON EVENT
40	(28)	CHARACTER	2	SMF54VER	RECORD VERSION NUMBER
42	(2A)	CHARACTER	4	SMF54SYS	SUBSYSTEM NAME
46	(2E)	CHARACTER	1	SMF54IDS (0)	DEFINE START OF ID SECTION

Comment

ID SECTION OF HASP 54 (SNA) INTEGRITY RECORD AFTER TWO HDRS

End of Comment

46	(2E)	CHARACTER	8	SMF54RMT	REMOTE NAME
54	(36)	CHARACTER	8	SMF54RPW	REMOTE PASSWORD
62	(3E)	CHARACTER	8	SMF54PSW	LINE PASSWORD
70	(46)	CHARACTER	1	SMF54END (0)	END OF TYPE 54 RECORD

Comment

%IFABGN1: ;

METHOD OF ACCESS

PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM

DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE

INCLUDE MACRO FROM LIBRARY

EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-

DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON

%INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD

A DIAGNOSTIC.

THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER RECORDS AS FOLLOWS:

MACRO RECORDS

IFASMFR1 07-19

IFASMFR2 20-27

IFASMFR3 28-36

IFASMFR4 37-46

IFASMFR5 47-54

\$SMF Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		IFASMFR6 55-69			
		IFASMFR9 80-84			
		IFASMFR6 85-103			
		IFASMFRB 104-113			
		IFASMFR6 114-123			
		IFASMFRD 124-127			
%GOTO IFABGN2;					
THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS					
IFASMFR &RECTYPE					
NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1).					
MODULE NAME = IAZSMF55					
DESCRIPTIVE NAME = JES SMF NETWORK SIGNON RECORD					
SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC					
End of Comment					
8	(8)	X'8	0	SMFRCD55	*** START OF RECORD
8	(8)	X'8	0	SMF55PTR	*** HEADER SEGMENT
8	(8)	CHARACTER	2	SMF55LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF55SEG	SEGMENT DESCRIPTOR
Comment					
BEGINNING OF JMR OR HASP SMF RECORD					
End of Comment					
12	(C)	BITSTRING	1	SMF55FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF55RTY	RECORD TYPE
14	(E)	BITSTRING	4	SMF55TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)		4	SMF55DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF55SID	SYSTEM IDENTIFICATION
Comment					
HEADER FOR HASP SUBSYS RECORD TYPE 55					
End of Comment					
22	(16)	X'37	0	SMFJ55	"55" NETWORK SIGNON RECORD TYPE
26	(1A)	BITSTRING	2	SMF55SBS	HASP SUBSYSTEM ID
26	(1A)	BITSTRING	0	SMF55HSP	"X'0002" JES2 ID
28	(1C)	BITSTRING	2	SMF55SUB	RECORD SUBTYPE
30	(1E)	BITSTRING	2	SMF55LRR	LENGTH OF REST OF RECORD
30	(1E)	X'18	0	SMF55STR	** -SMF55LEN" LENGTH OF HEADING SECTIONS
Comment					
BEGINNING OF HASP TYPE 55 NETWORKING SIGNON RECORD AFTER 2 HDRS					
End of Comment					
32	(20)	CHARACTER	8	SMF55NNM	NODE NAME
40	(28)	BITSTRING	1	SMF55MEM	MEMBER NUMBER
41	(29)	BITSTRING	1	SMF55FG1	SIGNON STATUS FLAGS
41	(29)	BITSTRING	0	SMF55RSO	"B'10000000" RESPONSE SIGNON
42	(2A)	CHARACTER	8	SMF55LPW	LINE PASSWORD
50	(32)	CHARACTER	8	SMF55NPW	NODE PASSWORD
58	(3A)	CHARACTER	8	SMF55LNM	LINE NAME
66	(42)	CHARACTER	1	SMF55END (0)	END OF TYPE 55 RECORD

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

Comment

```
%IFABGN1: ;
METHOD OF ACCESS
PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
INCLUDE MACRO FROM LIBRARY
EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
%INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
A DIAGNOSTIC.
THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT
ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
RECORDS AS FOLLOWS:
MACRO RECORDS
IFASMFR1 07-19
IFASMFR2 20-27
IFASMFR3 28-36
IFASMFR4 37-46
IFASMFR5 47-54
IFASMFR6 55-69
IFASMFR9 80-84
IFASMFR8 85-103
IFASMFRB 104-113
IFASMFRD 114-123
IFASMFRF 124-127
```

```
%GOTO IFABGN2;
THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
REQUIRED FORMAT IS
IFASMFR &RECTYPE
NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1).
MODULE NAME = IAZSMF56
DESCRIPTIVE NAME = JES SMF NETWORK INTEGRITY RECORD
```

End of Comment					
8	(8)	X'8 '	0	SMFRCD56	*** START OF RECORD
8	(8)	X'8 '	0	SMF56PTR	*** HEADER SEGMENT
8	(8)	CHARACTER	2	SMF56LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF56SEG	SEGMENT DESCRIPTOR

Comment

BEGINNING OF JMR OR HASP SMF RECORD

End of Comment					
12	(C)	BITSTRING	1	SMF56FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF56RTY	RECORD TYPE
14	(E)	BITSTRING	4	SMF56TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)	BITSTRING	4	SMF56DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF56SID	SYSTEM IDENTIFICATION

Comment

HEADER FOR HASP SUBSYS RECORD TYPE 56

End of Comment					
22	(16)	X'38 '	0	SMFJ56	"56" NETWORK INTEGRITY REC TYPE
26	(1A)	BITSTRING	2	SMF56SBS	HASP SUBSYSTEM ID
26	(1A)	BITSTRING	0	SMF56HSP	"X'0002" JES2 ID
28	(1C)	BITSTRING	2	SMF56SUB	RECORD SUBTYPE
30	(1E)	BITSTRING	2	SMF56LRR	LENGTH OF REST OF RECORD

\$SMF Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
BEGINNING OF HASP TYPE 56 NETWORKING SIGNON RECORD AFTER 2 HDRS					
End of Comment					
32	(20)	CHARACTER	8	SMF56NNM	NODE NAME
40	(28)	BITSTRING	1	SMF56MEM	MEMBER NUMBER
41	(29)	BITSTRING	1	SMF56FG1	SIGNON STATUS FLAGS
41	(29)	BITSTRING	0	SMF56RSO	"B'10000000" RESPONSE SIGNON
42	(2A)	CHARACTER	8	SMF56LPW	LINE PASSWORD
50	(32)	CHARACTER	8	SMF56NPW	NODE PASSWORD
58	(3A)	CHARACTER	8	SMF56LNM	LINE NAME
66	(42)	CHARACTER	1	SMF56END (0)	END OF TYPE 56 RECORD
Comment					
<p>%IFABGN1 ; METHOD OF ACCESS PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE INCLUDE MACRO FROM LIBRARY EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP- DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD A DIAGNOSTIC. THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER RECORDS AS FOLLOWS: MACRO RECORDS IFASMFR1 07-19 IFASMFR2 20-27 IFASMFR3 28-36 IFASMFR4 37-46 IFASMFR5 47-54 IFASMFR6 55-69 IFASMFR9 80-84 IFASMFR8 85-103 IFASMFRB 104-113 IFASMFRD 114-123 IFASMFRD 124-127</p>					
<p>%GOTO IFABGN2; THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS IFASMFR &RECTYPE NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1). MODULE NAME = IAZSMF57 DESCRIPTIVE NAME = JES SMF NETWORK SYSOUT TRANSMISSION RECORD SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC</p>					
End of Comment					
8	(8)	X'8 '	0	SMFRCD57	*** START OF RECORD
8	(8)	X'8 '	0	SMF57PTR	*** HEADER SEGMENT
8	(8)	CHARACTER	2	SMF57LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF57SEG	SEGMENT DESCRIPTOR
Comment					
BEGINNING OF JMR OR HASP SMF RECORD					
End of Comment					
12	(C)	BITSTRING	1	SMF57FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF57RTY	RECORD TYPE
14	(E)	BITSTRING	4	SMF57TME	TOD, USING FORMAT FROM TIME MACRO

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
18	(12)		4	SMF57DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF57SID	SYSTEM IDENTIFICATION

Comment

HEADER FOR HASP SUBSYS RECORD TYPES 57

End of Comment

22	(16)	X'39	0	SMFJ57	"57" NETWORK SYSOUT TRANSMISSION
26	(1A)	BITSTRING	2	SMF57SBS	HASP SUBSYSTEM ID
26	(1A)	BITSTRING	0	SMF57HSP	"X'0002" JES2 ID
28	(1C)	BITSTRING	2	SMF57SUB	RECORD SUBTYPE
30	(1E)	BITSTRING	2	SMF57LRR	LENGTH OF REST OF RECORD
30	(1E)	X'18	0	SMF57STR	**SMF57LEN" LENGTH OF HEADING SECTIONS

Comment

BEGINNING OF HASP TYPE 57 SYSOUT TRANSMISSION RECRD AFTER 2 HDRS

End of Comment

32	(20)	CHARACTER	8	SMF57JID	ORIGINAL JOB IDENTIFICATION
40	(28)	CHARACTER	8	SMF57CJD	CURRENT JOB IDENTIFICATION
48	(30)	CHARACTER	8	SMF57ONN	ORIGINAL NODE NAME
56	(38)	CHARACTER	8	SMF57ENN	EXECUTION NODE NAME
64	(40)	CHARACTER	8	SMF57NNN	NEXT NODE NAME
72	(48)	CHARACTER	8	SMF57DVN	SYSOUT TRANSMITTER DEVICE NAME
80	(50)	BITSTRING	4	SMF57TSS	TIME ON SYSOUT TRANSMITTER
84	(54)		4	SMF57DSS	DATE ON SYSOUT TRANSMITTER
88	(58)	BITSTRING	4	SMF57TPS	TIME OFF SYSOUT TRANSMITTER
92	(5C)		4	SMF57DPS	DATE OFF SYSOUT TRANSMITTER
96	(60)	CHARACTER	8	SMF57ACN	NETWORK ACCOUNT NUMBER
104	(68)	CHARACTER	4	SMF57TSI	SYSOUT TRANSMITTER SYSTEM ID
108	(6C)	BITSTRING	4	SMF57CNT	NUMBER OF LOGICAL TP RECORDS
112	(70)	CHARACTER	1	SMF57END (0)	End of type 57 base section

Comment

This is the header for all future extensions to the SMF 57 record. Sections beyond this point must be accessed by using the values stored in the triplets (below) that contain the offset, length, and number of sections of the type corresponding to the triplet. New sections will be appended to this header and their presence can be detected by an increase in the number of triplets and by a non-zero section offset, length and number of sections.

End of Comment

112	(70)	BITSTRING	2	SMF57NTR	NUMBER OF TRIPLETS
114	(72)	BITSTRING	2		RESERVED
114	(72)	X'74	0	SMF57TRP	*** BEGINNING OF TRIPLETS
116	(74)	BITSTRING	4	SMF57OSW	OFFSET TO ESS SECTION
120	(78)	BITSTRING	2	SMF57LSW	LENGTH OF ESS SECTION
122	(7A)	BITSTRING	2	SMF57NSW	NUMBER OF ESS SECTIONS
122	(7A)	X'8	0	SMF57LTP	**SMF57TRP" LENGTH OF TRIPLETS
122	(7A)	X'1	0	SMF57NTP	"SMF57LTP/8" NUMBER OF TRIPLETS
122	(7A)	X'C	0	SMF57TPL	**SMF57NTR" Length of Triplets section and number of triplets

\$SMF Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>Enhanced SYSOUT Support (ESS) Ssection This section contains the OUTPUT descriptor (if any) in SWBTU format (IEFSJPFx plus text units) for the first offloaded data set included in this SMF record. The SWBTU may be processed using the SWBTUREC macro or other Scheduler JCL Facility (SJF) services.</p>					
End of Comment					
124	(7C)	BITSTRING	2	SMF57LN1	LENGTH OF ESS SECTION
126	(7E)	BITSTRING	4	SMF57SGT	SEGMENT IDENTIFIER
130	(82)	BITSTRING	1	SMF57IND	ESS SECTION INDICATOR
130	(82)	BITSTRING	0	SMF57SJF	"B'10000000" ERROR OBTAINING SWBTU (SWBTU DATA NOT PRESENT)
131	(83)	BITSTRING	1		RESERVED
132	(84)	CHARACTER	8	SMF57JDT	JDVT NAME
140	(8C)	BITSTRING	2	SMF57TUL	SWBTU DATA AREA LENGTH
142	(8E)	CHARACTER	1	SMF57TU (0)	SWBTU DATA AREA
142	(8E)	X'12	0	SMF57ESL	"*-SMF57LN1" Length of the fixed portion of the ESS section

Comment

%IFABGN1 ;

METHOD OF ACCESS

PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM

DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE

INCLUDE MACRO FROM LIBRARY

EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-

DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON

%INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
A DIAGNOSTIC.

THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT

ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER

RECORDS AS FOLLOWS:

MACRO RECORDS

IFASMFR1 07-19

IFASMFR2 20-27

IFASMFR3 28-36

IFASMFR4 37-46

IFASMFR5 47-54

IFASMFR6 55-69

IFASMFR9 80-84

IFASMFR8 85-103

IFASMFRB 104-113

IFASMFRD 114-123

IFASMFRD 124-127

%GOTO IFABGN2;

THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE

REQUIRED FORMAT IS

IFASMFR &RECTYPE

NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1).

MODULE NAME = IAZSMF58

DESCRIPTIVE NAME = JES SMF NETWORK SIGNOFF RECORD

SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC

End of Comment

8	(8)	X'8	0	SMFRCD58	*** START OF RECORD
8	(8)	X'8	0	SMF58PTR	*** HEADER SEGMENT
8	(8)	CHARACTER	2	SMF58LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF58SEG	SEGMENT DESCRIPTOR

Offsets

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

Comment

BEGINNING OF JMR OR HASP SMF RECORD

End of Comment

12	(C)	BITSTRING	1	SMF58FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF58RTY	RECORD TYPE
14	(E)	BITSTRING	4	SMF58TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)		4	SMF58DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF58SID	SYSTEM IDENTIFICATION

Comment

HEADER FOR HASP SUBSYS RECORD TYPES 58

End of Comment

22	(16)	X'3A '	0	SMFJ58	"58" NETWORK SIGNOFF REC TYPE
26	(1A)	BITSTRING	2	SMF58SBS	HASP SUBSYSTEM ID
26	(1A)	BITSTRING	0	SMF58HSP	"X'0002" JES2 ID
28	(1C)	BITSTRING	2	SMF58SUB	RECORD SUBTYPE
30	(1E)	BITSTRING	2	SMF58LRR	LENGTH OF REST OF RECORD
30	(1E)	X'18 '	0	SMF58STR	**SMF58LEN" LENGTH OF HEADING SECTIONS

Comment

BEGINNING OF HASP TYPE 58 NETWORK SIGNOFF RECORD AFTER TWO HDRS

End of Comment

32	(20)	CHARACTER	8	SMF58NNM	NODE NAME
40	(28)	BITSTRING	1	SMF58MEM	MEMBER NUMBER
41	(29)	BITSTRING	1	SMF58RV1	RESERVED
42	(2A)	CHARACTER	8	SMF58LNM	LINE NAME
50	(32)	CHARACTER	1	SMF58END (0)	END OF TYPE 58 RECORD

Comment

THE FOLLOWING ORGS ENSURE THAT A JES2 SMF BUFFER IS AS LARGE AS THE LARGEST SMF RECORD (PLUS THE BUFFER PREFIX) THAT JES2 WRITES. THE LENGTH OF EACH RECORD, OTHER THAN THE TYPE 6 AND 26, IS HANDLED BY THE FIRST 'ORG ,'. THE TYPE 6 AND 26 CONTAIN SEVERAL SECTIONS, AND THEIR LENGTHS ARE THEREFORE DEFINED USING THE EQUATIONS BELOW.

End of Comment

272	(110)	SIGNED	4	(0)	
920	(398)	SIGNED	4	(0)	
388	(184)	SIGNED	4	(0)	
920	(398)	SIGNED	4	(0)	
920	(398)	X'98 '	0	SMFLNG	**SMF" LEN OF LARGEST RECORD

\$SMF Cross Reference

\$SMF Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
NJEACCT	BC		SMFSEG	A	
NJEBLDG	CC		SMFTYPE	4	
NJEDEPT	C4		SMFWFL26	5	
NJEJMR	84		SMF24AFF	C2	40
NJEJMREN	E8		SMF24AOF	FC	E0
NJEJMRID	84	D5D1C5D1	SMF24BCF	5A	0
NJEJMLRN	8C		SMF24CJD	6C	40404040
NJEJMRSZ	E8		SMF24CNT	A4	0
NJEJOBNM	90		SMF24COM	5B	80
NJEJOBNO	8E		SMF24CON	5A	40
NJEJOBNX	E4		SMF24DDS	AC	0
NJEPRGMR	A0		SMF24DRD	BC	0
NJEROOM	D4		SMF24DSN	78	40404040
NJETRANS	E4		SMF24DTE	12	C
NJEUSRID	B4		SMF24EJS	E8	
NJEXEQN	98		SMF24EOJ	5B	0
NJEXEQU	DC		SMF24ESL	10F	12
SMF\$ESYS	22	80	SMF24FCB	D4	40404040
SMFAPPC	6	1	SMF24FLG	C	0
SMFCBIE	3F	1	SMF24FLS	E0	40404040
SMFCHAIN	0		SMF24FOR	D8	40404040
SMFCLFLG	6		SMF24FST	5A	80
SMFJMR	A	C	SMF24GLN	58	0
SMFJMRCH	8		SMF24GOF	FC	50
SMFJM RTP	4	80	SMF24INC	C2	10
SMFJ24	16	18	SMF24IND	103	
SMFJ26	D	1A	SMF24INJ	5B	20
SMFJ43	D	2B	SMF24JAF	CC	40404040
SMFJ45	D	2D	SMF24JBN	5C	40404040
SMFJ47	D	2F	SMF24JCL	C3	40
SMFJ48	D	30	SMF24JDT	105	
SMFJ49	D	31	SMF24JFG	C2	0
SMFJ52	16	34	SMF24JHL	C2	80
SMFJ53	16	35	SMF24JID	64	40404040
SMFJ54	16	36	SMF24JND	C4	40404040
SMFJ55	16	37	SMF24JR	1E	2
SMFJ56	16	38	SMF24JRT	C4	
SMFJ57	16	39	SMF24JT	1E	1
SMFJ58	16	3A	SMF24LEN	8	
SMFJ6	D	6	SMF24LGN	30	
SMFLEN	8		SMF24LHD	22	1C
SMFLNG	398	98	SMF24LN	FC	68
SMFLNHDR	7	8	SMF24LN1	C0	0
SMFLRGTP	4	40	SMF24LN2	C0	0
SMFNO26	5	1	SMF24LN3	FD	0
SMFPARM	7		SMF24LN4	F0	
SMFQUED	4	20	SMF24LPS	28	
SMFRCD24	8	8	SMF24LSA	48	
SMFRCD26	8	8	SMF24LSP	38	
SMFRCD43	8	8	SMF24LST	5A	20
SMFRCD45	8	8	SMF24LSW	40	
SMFRCD47	8	8	SMF24LS4	E8	0
SMFRCD48	8	8	SMF24L1	FC	28
SMFRCD49	8	8	SMF24L2	FC	3D
SMFRCD52	8	8	SMF24MUL	C2	8
SMFRCD53	8	8	SMF24NGN	32	
SMFRCD54	8	8	SMF24NPS	2A	
SMFRCD55	8	8	SMF24NSA	4A	
SMFRCD56	8	8	SMF24NSP	3A	
SMFRCD57	8	8	SMF24NSW	42	
SMFRCD58	8	8	SMF24NTP	4A	5
SMFRCD6	8	8	SMF24NTR	20	
SMFRDW	8		SMF24OGN	2C	

\$SMF Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SMF24OPR	5B	10	SMF26DEV	68	
SMF24OPS	24		SMF26DJC	3E	80
SMF24ORG	B0	40404040	SMF26DJE	3E	1
SMF24OSA	44		SMF26DJO	3E	2
SMF24OSP	34		SMF26DLJ	3E	40
SMF24OSW	3C		SMF26DLM	3E	20
SMF24PNM	4E		SMF26DTE	12	
SMF24POF	FC	44	SMF26DTM	B0	
SMF24PRD	FC	C	SMF26DTY	84	
SMF24PRM	E4	40404040	SMF26EBT	3C	
SMF24PRY	FC	0	SMF26EFM	4C	
SMF24PTR	8	8	SMF26EIR	3F	4
SMF24PVR	4C		SMF26ELN	7C	
SMF24REC	F8	0	SMF26EPG	44	
SMF24RSV	22		SMF26EPU	80	
SMF24RS2	56		SMF26EVT	38	
SMF24RTY	D	0	SMF26FLG	C	
SMF24SAC	F4		SMF26FRM	84	
SMF24SAL	F4	C	SMF26FTS	3E	40
SMF24SAN	EC		SMF26HSP	36	2
SMF24SBT	C2	40	SMF26ICD	3E	
SMF24SCL	C3	40	SMF26IGP	88	
SMF24SDS	5B	40	SMF26IND	38	
SMF24SEG	A		SMF26INF	3F	
SMF24SFG	C2	0	SMF26INR	3C	
SMF24SGT	FF		SMF26IN2	3E	
SMF24SHL	C2	80	SMF26IN3	3E	
SMF24SID	16	40404040	SMF26IX2	64	
SMF24SJF	103	80	SMF26JAF	5A	
SMF24SJH	C2	20	SMF26JBF	3E	1
SMF24SND	C4	40404040	SMF26JBN	1A	
SMF24SOF	FC	B8	SMF26JCP	3F	80
SMF24SR	1E	4	SMF26JDL	64	80
SMF24SRN	CC	40404040	SMF26JID	44	
SMF24SRT	C4		SMF26JNM	40	
SMF24SSI	1A		SMF26JOL	64	40
SMF24ST	1E	3	SMF26JXP	38	
SMF24STS	C	40	SMF26J2D	80	84
SMF24SUB	1E	0	SMF26J2R	38	
SMF24SYS	74	40404040	SMF26J3D	84	84
SMF24TDS	A8	0	SMF26LAG	40	
SMF24TME	E	0	SMF26LEN	8	
SMF24TPS	22	24	SMF26LIN	8A	
SMF24TRD	B8	0	SMF26LN	78	32
SMF24TRP	4A	28	SMF26LN1	3A	
SMF24TU	10F		SMF26LN2	3A	
SMF24TUL	10D		SMF26LN3	3A	
SMF24UCS	EC	40404040	SMF26LN4	3A	
SMF24WID	F0	40404040	SMF26LN5	3A	
SMF26ACP	38		SMF26LN6	3A	
SMF26ACT	70		SMF26LN7	3A	
SMF26AC1	78		SMF26LN8	75	
SMF26ATU	38		SMF26LOC	66	
SMF26BCH	3E	80	SMF26LWL	48	
SMF26CID	4E		SMF26L1	78	5E
SMF26CLN	B8		SMF26L10	78	3B
SMF26CLS	61		SMF26L2	78	3C
SMF26CPD	52		SMF26L3	78	20
SMF26CPT	4E		SMF26L4	78	68
SMF26CPY	3E	2	SMF26L5	78	E
SMF26CSD	4A		SMF26L6	78	1A
SMF26CST	46		SMF26L7	78	12
SMF26CYP	88		SMF26L9	78	29
SMF26DDT	B4		SMF26MRE	3F	2
SMF26DES	38		SMF26MSG	60	

\$SMF Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SMF26NAC	52		SMF26SRC	E8	
SMF26NAG	42		SMF26STK	3E	20
SMF26NAM	4C		SMF26STU	3F	40
SMF26NDV	62		SMF26SUI	8A	
SMF26NET	A8		SMF26SZ1	78	10
SMF26NID	3E		SMF26SZ2	78	4C
SMF26NJB	5A		SMF26SZ3	78	8
SMF26NJE	3E	4	SMF26SZ4	78	4
SMF26NJI	A0		SMF26SZ5	78	4F
SMF26NJO	98		SMF26TLN	78	7C
SMF26NJX	3E	8	SMF26TME	E	
SMF26NLG	3F	10	SMF26TRH	3F	20
SMF26NLN	82		SMF26UIF	2A	
SMF26NN	92		SMF26WCL	4C	
SMF26NNM	7A		SMF26WIN	5C	
SMF26NOJ	3E	10	SMF26WJC	5D	
SMF26NON	6A		SMF26WLM	5C	80
SMF26NOU	3E	8	SMF26WOC	54	
SMF26NPD	4E		SMF26WSE	65	
SMF26NPT	4A		SMF26XBC	3F	8
SMF26NRA	77		SMF26XBT	40	
SMF26NSD	46		SMF26XID	52	
SMF26NST	42		SMF26XLN	42	
SMF26NTW	38		SMF26XPD	62	
SMF26NU	9A		SMF26XPG	48	
SMF26NWL	4A		SMF26XPI	62	
SMF26NXN	72		SMF26XPS	63	
SMF26OAG	3C		SMF26XPT	5E	
SMF26OID	56		SMF26XPU	46	
SMF26OPC	3F	1	SMF26XSD	5A	
SMF26OPD	72		SMF26XST	56	
SMF26OPS	65		SMF26XTM	78	
SMF26OPT	6E		SMF43ANL	22	10
SMF26OSD	6A		SMF43CLD	22	80
SMF26OST	66		SMF43DSI	22	1
SMF26OWL	44		SMF43DTE	12	
SMF26PDD	90		SMF43EID	24	
SMF26PD3	90		SMF43END	3E	
SMF26PRD	40		SMF43FLG	C	
SMF26PRJ	3E	10	SMF43GBL	22	8
SMF26PRR	8C		SMF43HOT	22	20
SMF26PTR	8	8	SMF43HSP	1A	2
SMF26PUD	44		SMF43INT	28	40404040
SMF26PUR	8E		SMF43LCL	22	4
SMF26RID	4A		SMF43LEN	8	
SMF26ROM	74		SMF43LRR	1E	
SMF26RPD	42		SMF43L1	28	20
SMF26RPT	3E		SMF43L2	28	8
SMF26RSD	26		SMF43NMU	25	
SMF26RST	22		SMF43OPT	23	
SMF26RSV	32		SMF43ORG	26	
SMF26RTY	D		SMF43PJ3	2E	
SMF26RVA	70		SMF43PRC	20	40404040
SMF26RV1	3C		SMF43PTR	8	8
SMF26RV2	3C		SMF43REF	22	2
SMF26RV4	3C		SMF43RST	22	
SMF26RV5	3C		SMF43RSV	1C	
SMF26RV6	85		SMF43RTY	D	
SMF26RV8	64		SMF43RVJ	32	
SMF26R02	38		SMF43RVU	3A	
SMF26SBS	36		SMF43RV1	20	
SMF26SCN	3E	4	SMF43RV2	23	
SMF26SEG	A		SMF43SBG	22	23
SMF26SID	16		SMF43SBP	1E	20
SMF26SJB	5C	40	SMF43SBS	1A	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value	
SMF43SEG	A		SMF47L4	20	34	
SMF43SID	16		SMF47MSG	3E		
SMF43SIZ	3E		SMF47PCI	2F		
SMF43TME	E		SMF47PLI	25		
SMF43UNT	26	26	00003	SMF47PSW	34	
SMF43UN4	26	26	00004	SMF47PTR	8	8
SMF43US1	24		SMF47RMT	24		
SMF43WRM	22	40	SMF47RSV	1C		
SMF45ABN	20	80	SMF47RTY	D		
SMF45ABT	28	20	SMF47RVJ	62		
SMF45ATM	20	80	SMF47RVU	6A		
SMF45DSI	20	40	SMF47SBG	1E	20	
SMF45DTE	12		SMF47SBS	1A		
SMF45END	32		SMF47SEG	A		
SMF45FG1	20		SMF47SID	16		
SMF45FLG	C		SMF47SIZ	6E		
SMF45HLT	28	80	SMF47SON	20	1	
SMF45HSP	1A	2	SMF47SPA	20	4	
SMF45IND	20		SMF47STL	20	2	
SMF45JCC	22		SMF47TME	E		
SMF45J3C	21		SMF47UID	21		
SMF45LEN	8		SMF47ULK	20	1	
SMF45LRR	1E		SMF47UNL	20	80	
SMF45L1	2C	1C	SMF48ADP	58		
SMF45L2	2C	4	SMF48AD4	5B		
SMF45NOS	28	10	SMF48CAN	20	2	
SMF45NUL	2C		SMF48CDH	4C		
SMF45OPS	28	40	SMF48CNI	20	40	
SMF45PRC	20	40404040	SMF48CNT	28		
SMF45PTR	8	8	SMF48CPD	44		
SMF45RSV	1C		SMF48CPG	20	10	
SMF45RTY	D		SMF48CPU	24		
SMF45RVJ	26		SMF48CT	58	14	
SMF45RVU	2E		SMF48CTD	48		
SMF45RV1	24		SMF48CTH	2C		
SMF45SBG	1E	20	SMF48CWK	20	20	
SMF45SBS	1A		SMF48DCK	44		
SMF45SEG	A		SMF48DID	54		
SMF45SID	16		SMF48DIO	34		
SMF45SIZ	32		SMF48DSL	3C		
SMF45STF	28		SMF48DSP	40		
SMF45TME	E		SMF48DTE	12		
SMF45UID	29		SMF48END	67		
SMF45US1	25		SMF48ERR	4C		
SMF47CWK	20	20	SMF48ERS	40		
SMF47DPL	34		SMF48EVT	20		
SMF47DSL	30		SMF48FLG	C		
SMF47DTE	12		SMF48FLS	20		
SMF47END	6E		SMF48HSI	20	8	
SMF47EVT	20		SMF48HSP	1A	2	
SMF47FLG	C		SMF48IO	3C		
SMF47HSP	1A	2	SMF48LAA	50		
SMF47JID	28		SMF48LA4	53		
SMF47LAA	2E		SMF48LEN	8		
SMF47LCF	20		SMF48LIN	2C		
SMF47LEN	8		SMF48LOF	20	4	
SMF47LIN	2C		SMF48LRR	1E		
SMF47LN1	22		SMF48L1	58	4F	
SMF47LN2	3C		SMF48NAK	40		
SMF47LON	20	4	SMF48NKS	46		
SMF47LRR	1E		SMF48OUT	48		
SMF47LTC	24		SMF48PSW	34		
SMF47L1	20	1A	SMF48PTR	8	8	
SMF47L2	20	26	SMF48RMT	24		
SMF47L3	20	5A	SMF48RPI	20	80	

\$SMF Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SMF48RSV	1C		SMF49STL	20	2
SMF48RTY	D		SMF49TER	20	8
SMF48RVJ	5F		SMF49TME	E	
SMF48RVU	63		SMF49UFO	34	
SMF48RV1	22		SMF49VID	20	
SMF48SBG	34	3C	SMF52DTE	12	C
SMF48SBP	1E	20	SMF52END	46	
SMF48SBS	1A		SMF52FLG	C	0
SMF48SEG	A		SMF52IDL	22	0
SMF48SID	16		SMF52IDN	24	0
SMF48SIZ	67		SMF52IDO	20	0
SMF48SOF	20	1	SMF52IDS	2E	
SMF48SPA	20	4	SMF52LEN	8	
SMF48S0	48		SMF52LID	46	18
SMF48S1	49		SMF52LIN	36	40404040
SMF48S2	4A		SMF52LON	26	1
SMF48S3	4B		SMF52LPR	46	8
SMF48S4	4C		SMF52OFI	46	26
SMF48S5	4D		SMF52OFP	46	1E
SMF48S6	4E		SMF52POF	1A	0
SMF48TID	58		SMF52PRL	1C	0
SMF48TIO	38		SMF52PRN	1E	0
SMF48TME	E		SMF52PSW	3E	40404040
SMF48TOT	44		SMF52PTR	8	8
SMF48TRN	3C		SMF52RMT	2E	40404040
SMF48UID	21		SMF52RTY	D	0
SMF48ULK	20	1	SMF52SEG	A	
SMF48USR	4F		SMF52SID	16	40404040
SMF48VIR	30		SMF52SLN	26	2
SMF48VSD	50		SMF52SUB	26	0
SMF48XCP	3C		SMF52SYS	2A	D1C5E2F2
SMF49BND	20	8	SMF52TME	E	0
SMF49DEF	20	6	SMF52VER	28	F0F1
SMF49DTE	12		SMF53ADP	5A	E2D5C1
SMF49END	62		SMF53CTR	46	0
SMF49EVT	20		SMF53DTE	12	C
SMF49FLG	C		SMF53END	5D	
SMF49FLN	28		SMF53FLG	C	0
SMF49LEN	8		SMF53IDL	22	0
SMF49LER	20	4	SMF53IDN	24	0
SMF49LIM	20	5	SMF53IDO	20	0
SMF49LIN	2C		SMF53IDS	2E	
SMF49LNA	23		SMF53LEN	8	
SMF49LN1	22		SMF53LID	5D	2F
SMF49LN2	3C		SMF53LIN	36	40404040
SMF49LRR	1E		SMF53LOF	26	1
SMF49L1	20	1A	SMF53PLN	26	2
SMF49L2	20	26	SMF53PRL	1C	0
SMF49L3	20	5A	SMF53PRN	1E	0
SMF49MSG	3E		SMF53PRO	1A	0
SMF49NER	20	1	SMF53PSW	3E	40404040
SMF49PER	20	2	SMF53PTR	8	8
SMF49PSW	34		SMF53RMT	2E	40404040
SMF49PTR	8	8	SMF53RTY	D	0
SMF49RMT	24		SMF53SEG	A	
SMF49RSV	1C		SMF53SID	16	40404040
SMF49RTY	D		SMF53SUB	26	0
SMF49RV1	26		SMF53SYS	2A	D1C5E2F2
SMF49SBG	1E	20	SMF53TME	E	0
SMF49SBS	1A		SMF53VER	28	F0F1
SMF49SEG	A		SMF54DTE	12	C
SMF49SID	16		SMF54END	46	
SMF49SIZ	62		SMF54FLG	C	0
SMF49SON	20	1	SMF54IDL	22	0
SMF49SPW	20	7	SMF54IDN	24	0

\$SMF Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SMF54IDO	20	0	SMF57DVN	48	40404040
SMF54IDS	2E		SMF57END	70	
SMF54LEN	8		SMF57ENN	38	40404040
SMF54LON	26	1	SMF57ESL	8E	12
SMF54POF	1A	0	SMF57FLG	C	0
SMF54PRL	1C	0	SMF57HSP	1A	2
SMF54PRN	1E	0	SMF57IND	82	
SMF54PSW	3E	40404040	SMF57JDT	84	
SMF54PTR	8	8	SMF57JID	20	40404040
SMF54RMT	2E	40404040	SMF57LEN	8	
SMF54RPW	36	40404040	SMF57LN1	7C	
SMF54RTY	D	0	SMF57LRR	1E	0
SMF54SEG	A		SMF57LSW	78	
SMF54SID	16	40404040	SMF57LTP	7A	8
SMF54SUB	26	0	SMF57NNN	40	40404040
SMF54SYS	2A	D1C5E2F2	SMF57NSW	7A	
SMF54TME	E	0	SMF57NTP	7A	1
SMF54VER	28	F0F1	SMF57NTR	70	
SMF55DTE	12	C	SMF57ONN	30	40404040
SMF55END	42		SMF57OSW	74	
SMF55FG1	29	0	SMF57PTR	8	8
SMF55FLG	C	0	SMF57RTY	D	0
SMF55HSP	1A	2	SMF57SBS	1A	2
SMF55LEN	8		SMF57SEG	A	
SMF55LNM	3A	40404040	SMF57SGT	7E	
SMF55LPW	2A	40404040	SMF57SID	16	40404040
SMF55LRR	1E	0	SMF57SJF	82	80
SMF55MEM	28	0	SMF57STR	1E	18
SMF55NNM	20	40404040	SMF57SUB	1C	0
SMF55NPW	32	40404040	SMF57TME	E	0
SMF55PTR	8	8	SMF57TPL	7A	C
SMF55RSO	29	80	SMF57TPS	58	0
SMF55RTY	D	0	SMF57TRP	72	74
SMF55SBS	1A	2	SMF57TSI	68	40404040
SMF55SEG	A		SMF57TSS	50	0
SMF55SID	16	40404040	SMF57TU	8E	
SMF55STR	1E	18	SMF57TUL	8C	
SMF55SUB	1C	0	SMF58DTE	12	C
SMF55TME	E	0	SMF58END	32	
SMF56DTE	12	C	SMF58FLG	C	0
SMF56END	42		SMF58HSP	1A	2
SMF56FG1	29	0	SMF58LEN	8	
SMF56FLG	C	0	SMF58LNM	2A	40404040
SMF56HSP	1A	2	SMF58LRR	1E	0
SMF56LEN	8		SMF58MEM	28	0
SMF56LNM	3A	40404040	SMF58NNM	20	40404040
SMF56LPW	2A	40404040	SMF58PTR	8	8
SMF56LRR	1E	0	SMF58RTY	D	0
SMF56MEM	28	0	SMF58RV1	29	0
SMF56NNM	20	40404040	SMF58SBS	1A	2
SMF56NPW	32	40404040	SMF58SEG	A	
SMF56PTR	8	8	SMF58SID	16	40404040
SMF56RSO	29	80	SMF58STR	1E	18
SMF56RTY	D	0	SMF58SUB	1C	0
SMF56SBS	1A	2	SMF58TME	E	0
SMF56SEG	A		SMF6BID	6B	
SMF56SID	16	40404040	SMF6BIN	74	
SMF56SUB	1C	0	SMF6BIN1	74	80
SMF56TME	E	0	SMF6BIN2	74	40
SMF57ACN	60	40404040	SMF6BIN3	74	20
SMF57CJD	28	40404040	SMF6BIN4	74	10
SMF57CNT	6C	0	SMF6BNCT	9	
SMF57DPS	5C	C	SMF6BNLE	C	
SMF57DSS	54	C	SMF6BNLN	8	
SMF57DTE	12	C	SMF6BNNO	8	

\$SMF Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SMF6BNOF	4A		SMF6LEN	8	
SMF6BNUM	A		SMF6LEV2	4B	1
SMF6BNWI	E		SMF6LEV3	4B	1
SMF6BTS	6B	80	SMF6LEV4	4B	5
SMF6BYTE	4A		SMF6LEV6	4B	6
SMF6CCE	64	2	SMF6LFNT	50	
SMF6CHR	52		SMF6LN1	48	
SMF6CPS	4A		SMF6LN2	48	
SMF6CSP	6B	20	SMF6LN3	48	
SMF6DCI	4A		SMF6LN4	48	
SMF6DCRV	4A	80	SMF6LN5	48	
SMF6DDNM	7E		SMF6LN6	48	
SMF6DEND	EA		SMF6LOLY	58	
SMF6DFE	64		SMF6LPGE	BC	
SMF6DIE	3F	4	SMF6LPSG	60	
SMF6DPGL	75	10	SMF6LSIZ	7C	
SMF6DPLS	76	10	SMF6MID	62	
SMF6DSIZ	EA		SMF6NDS	40	0
SMF6DSNM	9E		SMF6NLR	3B	0
SMF6DTE	12	C	SMF6NSFO	7C	
SMF6DUPS	75	80	SMF6NSOL	78	
SMF6DUPT	75	40	SMF6NSPS	80	
SMF6EEND	5A		SMF6OCN	4A	20
SMF6EFMN	4E		SMF6OCNM	9C	
SMF6END	7C		SMF6OPJ	6B	40
SMF6END2	66		SMF6OPR	66	
SMF6ESIZ	5A		SMF6OR	4A	8
SMF6ESS1	45	10	SMF6ORD	4A	10
SMF6FCB	58		SMF6OSS	4A	2
SMF6FDNM	84		SMF6OTOK	D6	
SMF6FEET	68		SMF6OUT	50	
SMF6FEND	6C		SMF6OVLY	54	
SMF6FEXT	45	80	SMF6OWC	32	40
SMF6FLC	6A		SMF6PAD1	45	0
SMF6FLG	C	0	SMF6PDNM	8C	
SMF6FLG3	76		SMF6PGDF	6C	
SMF6FLI	66		SMF6PGE	60	
SMF6FMDF	70		SMF6PGOP	75	
SMF6FMN	41	40404040	SMF6PGSG	5C	
SMF6FONT	4C		SMF6PQLN	5E	
SMF6FSIZ	6C		SMF6PRMD	96	
SMF6FTFR	45	8	SMF6PRNM	76	
SMF6GRP	68		SMF6PRTQ	60	
SMF6IGER	75	1	SMF6PTDV	94	
SMF6IMPS	64		SMF6RBE	64	1
SMF6IND	4E		SMF6REND	56	
SMF6INDC	4B		SMF6RES	4A	
SMF6INT	4A	1	SMF6REXT	45	40
SMF6IOE	3F	0	SMF6ROR	4A	4
SMF6IP1	4E		SMF6ROUT	4A	
SMF6IP2	4F		SMF6RSJ	26	C
SMF6IP3	50		SMF6RSIZ	56	
SMF6IP4	51		SMF6RST	22	0
SMF6JBID	66		SMF6RSV	4F	
SMF6JBN	1A	40404040	SMF6RSVJ	70	
SMF6JDVT	50		SMF6RSVU	78	
SMF6JHPP	76	40	SMF6RTE	64	
SMF6JNM	4C		SMF6RTY	D	0
SMF6JTPP	76	20	SMF6SBS	46	
SMF6J2L3	4B	3	SMF6SDS	4A	40
SMF6J2L4	4B	4	SMF6SECS	8E	
SMF6J2S	60	64	SMF6SEG	A	
SMF6J3L3	4B	3	SMF6SEND	C0	
SMF6J3L4	4B	4	SMF6SETU	9C	
SMF6J3S	64	64	SMF6SEXT	45	20

Name	Hex Offset	Hex Value
SMF6SGID	4A	
SMF6SID	16	40404040
SMF6SIZ	7C	
SMF6SIZ2	66	
SMF6SIZ3	66	
SMF6SJF	4E	80
SMF6SLIG	76	80
SMF6SOER	75	2
SMF6SPGL	75	4
SMF6SSIZ	C0	
SMF6STNM	6E	
SMF6SUCC	75	8
SMF6SYSA	75	20
SMF6TEND	60	
SMF6TME	E	0
SMF6TSIZ	60	
SMF6TU	5A	
SMF6TUL	58	
SMF6UCS	5C	
SMF6UIF	2A	40404040
SMF6UPAS	76	8
SMF6USID	86	
SMF6WSD	37	C
SMF6WST	33	0

\$SMF Cross Reference

\$SNFWORK Heading Information

Common Name: JES2 SPOOL Sniffer Work Area
Macro ID: \$SNFWORK
DSECT Name: PCE (\$SNFWORK 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 SNWPCEWS 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 \$SNFPCE 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 the JES2 SPOOL Management Processor and by its support routines and exits. \$SNFWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$SNFWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESNFID in the second byte of field PCEID.

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

\$SNFWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
216	(D8)	ADDRESS	4	SNWLSNIF (0)	Extent, offset within extent and bit within byte of last sniffed
220	(DC)	BITSTRING	1		Reserved for future use
224	(E0)	ADDRESS	4	SNWQUEUE	Anchor for immediate work to do queue
228	(E4)	BITSTRING	1	SNWFLAG1	Flags
228	(E4)	BITSTRING	0	SNW1BADT	"B'00100000" Sniffing bad trackgroup
229	(E5)	BITSTRING	3		Available for use by IBM
232	(E8)	SIGNED	4		Reserved for future use
236	(EC)	BITSTRING	12	SNWTQE	TQE for SNFWAIT processing
248	(F8)	BITSTRING	3	SNWMTT	MTT for next sniffing
251	(FB)	BITSTRING	1		Reserved for future use
256	(100)	DBL WORD	8	(0)	Force double-word alignment
256	(100)	X'28 '	0	SNWPCEWS	**"PCEWORK" Length of work area

\$SNFWORK Cross Reference

\$SNFWORK Cross Reference

Name	Hex Offset	Hex Value
SNWFLAG1	E4	
SNWLSNIF	D8	
SNWMTT	F8	
SNWPCEWS	100	28
SNWQUEUE	E0	
SNWTQE	EC	
SNW1BADT	E4	20

\$SPIWORK Heading Information

Common Name: JES2 Sysout API Work Area
Macro ID: \$SPIWORK
DSECT Name: PCE (\$SPIWORK 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 SPIWKSIZ 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 \$SSIPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first SYSOUT API 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 Sysout API Processor and by its support routines and exits. \$SPIWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$SPIWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESPIID in the second byte of field PCEID.

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

\$SPIWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
216	(D8)	BITSTRING	636		\$RDRWORK LEN (FOR HASPRJCS)
852	(354)	BITSTRING	200	SPIWS	WS EBCDIC list
1052	(41C)	SIGNED	4	SPIWKOFF	Offset of work JOE
1056	(420)	SIGNED	2	SPI#PDDB	Number of PDDBs processed in SSI
1058	(422)	SIGNED	2	SPIPDDB#	Number of PDDBs processed in SASR
1060	(424)	BITSTRING	1	SPIFLAG1	Copy of SAPFLAG1
1061	(425)	BITSTRING	1	SPIFLAGJ	Copy of SAPFLAGJ
1062	(426)	BITSTRING	1	SPIFLAGS	Local (SASR) flags
1062	(426)	BITSTRING	0	SPISDISC	"B'10000000" Discard the data sets that have been processed in this JOE
1062	(426)	BITSTRING	0	SPISDUPJ	"B'01000000" Caller wants to reject job if there is another with same name
1062	(426)	BITSTRING	0	SPIJSJOE	"B'00100000" JOE handled by SAIDISP
1062	(426)	BITSTRING	0	SPIJLOK	"B'00010000" SAIDISP has job lock
1063	(427)	CHARACTER	1	SPIMCLAS	Message class of job
1064	(428)	SIGNED	4	SPIWRNUM	Thread level value used for JWEL proc
1068	(42C)	BITSTRING	8	SPIWRASI	Address space level value used for JWEL processing

\$SPIWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1076	(434)	BITSTRING	3	SPIDEVID	Device ID
1079	(437)	BITSTRING	1	SPIFLGJ2	Copy of SAPFLGJ2
1080	(438)	SIGNED	4	SPIRECCT	Pddb record count
1084	(43C)	SIGNED	4	SPIPGCT	Pddb page count
1088	(440)	SIGNED	4	SPIOJOE	Offset of prior JOE
1092	(444)	SIGNED	4	SPIOCRTM	Create time of JOE
1096	(448)	BITSTRING	268	SPIRGRPM	Parameter list for TREGROUP
1364	(554)	BITSTRING	104	SPIWKJOE	Temporary Work JOE
1468	(5BC)	BITSTRING	76	SPICHJOE	Temporary Char JOE
1544	(608)	SIGNED	4	SPIXECB (0)	SAPID queue mod ENQ ECB
1564	(61C)	SIGNED	4	SPIENQST (0)	True start of ENQ list

Comment

MACRO-DATE = 95/03/03

End of Comment

1564	(61C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
1564	(61C)	ADDRESS	4		PREFIX - ECB ADDRESS
1564	(61C)	X'20	0	SPIENQPL	*** X02113
1568	(620)	ADDRESS	1		PELLAST flag byte. X02113
1569	(621)	ADDRESS	1		PELMILEN - RNAME length.
1570	(622)	BITSTRING	1		

Comment

PELFLAG - flag byte 2.

End of Comment

1571	(623)	ADDRESS	1		PELRET - return code byte.
1572	(624)	ADDRESS	4		QNAME ADDRESS
1576	(628)	ADDRESS	4		RNAME ADDRESS
1576	(628)	X'1C 00010'	0	SPIENQL	"SPIENQST,*-SPIENQST" ENQ parm length, IPCS use
1580	(62C)	SIGNED	4	SPIDEQST (0)	True start of DEQ list

Comment

MACRO-DATE = 05/05/95

End of Comment

1580	(62C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
1580	(62C)	X'2C	0	SPIDEQPL	*** X02113
1580	(62C)	ADDRESS	1		PELLAST flag byte. X02113
1581	(62D)	ADDRESS	1		PELMILEN - RNAME length.
1582	(62E)	BITSTRING	1		

Comment

PELFLAG - flag byte 2.

End of Comment

1583	(62F)	ADDRESS	1		PELRET - return code byte.
1584	(630)	ADDRESS	4		QNAME ADDRESS
1588	(634)	ADDRESS	4		RNAME ADDRESS
1588	(634)	X'2C 0000C'	0	SPIDEQL	"SPIDEQST,*-SPIDEQST" DEQ parm length, IPCS use
1592	(638)	ADDRESS	4	SPIIOT	Address of IOT buffer
1596	(63C)	BITSTRING	4	SPIJBKEY	Job key
1600	(640)	BITSTRING	4	SPIANCHR	MTTR of first regular IOT
1604	(644)	BITSTRING	50	SPIPRTL	Room for PRMODE table
1654	(676)	SIGNED	1	SPIPTYPE	Type of SSI call (See SSS2TYPE in IAZSSS2)
1655	(677)	BITSTRING	1		Reserved for future use
1656	(678)	ADDRESS	4	(0)	Align on full word
1656	(678)	ADDRESS	4	SPIJSB	SJB of SAPI application
1660	(67C)	BITSTRING	4	SPIIOTF	MTTR of first IOT in JOE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1664	(680)	SIGNED	2	SPIPDDBF	PDDDB offset of first PDDDB in JOE
1666	(682)	CHARACTER	8	SPIPTHRED	Thread name (from SSS2APPL)
1680	(690)	DBL WORD	8	(0)	Multiple Double words long
1680	(690)	X'B8	0	SPIWKSIZ	**"PCEWORK" LENGTH OF PSO PCE WORK AREA

\$SPIWORK Cross Reference

Name	Hex Offset	Hex Value	
SPI#PDDB	420		
SPIANCHR	640		
SPICHJOE	5BC		
SPIDEQL	634	2C	0000C
SPIDEQPL	62C	2C	
SPIDEQST	62C		
SPIDEVID	434		
SPIENQL	628	1C	00010
SPIENQPL	61C	20	
SPIENQST	61C		
SPIFLAGJ	425		
SPIFLAGS	426		
SPIFLAG1	424		
SPIFLGJ2	437		
SPIIOT	638		
SPIIOTF	67C		
SPIJBKEY	63C		
SPIMCLAS	427		
SPIOCRTM	444		
SPIOJOE	440		
SPIPDDB#	422		
SPIPDDBF	680		
SPIPGCT	43C		
SPIPRTBL	644		
SPIRECCT	438		
SPIRGRPM	448		
SPISDISC	426	80	
SPISDUPJ	426	40	
SPIISJB	678		
SPIISJLOK	426	10	
SPIISJOE	426	20	
SPIPTHRED	682		
SPIATYPE	676		
SPIWKJOE	554		
SPIWKOFF	41C		
SPIWKSIZ	690	B8	
SPIWRASI	42C		
SPIWRNUM	428		
SPIWS	354		
SPIXECB	608		

\$SPIWORK Cross Reference

\$SPMWORK Programming Interface information

Programming Interface information

\$SPMWORK

End of Programming Interface information

\$SPMWORK Heading Information

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

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

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

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

Serialization: Normal PCE dispatch serialization
Function: The fields in this work area are used by the JES2 spool manager PCE. \$SPMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$SPMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESPMID in the second byte of field PCEID.

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

\$SPMWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP SPOOL MANAGER PROCESSOR
216	(D8)	BITSTRING	1	SPMXECB	XECB TO POST SPOOL MANAGER PCE
Comment					
SMMOVER - MOVE ROUTINE WORK AREA					
End of Comment					
236	(EC)	ADDRESS	4	SPMJCTBF	POINTER TO JCT BUFFER
240	(F0)	ADDRESS	4	SPMALLOC	POINTER TO ALLOCATION IOT BUFFER
244	(F4)	ADDRESS	4	SPMIOTBF	POINTER TO SECONDARY IOT BUFFER
248	(F8)	ADDRESS	4	SPMCURBF	POINTER TO CURRENT I/O BUFFER
252	(FC)	ADDRESS	4	SPMNXTBF	POINTER TO SECONDARY I/O BUFFER
256	(100)	BITSTRING	4	SPMTRKWR	TRACK ADDRESS FOR NEXT BUFFER WRITE
260	(104)	BITSTRING	4	SPMTRKRD	TRACK ADDRESS FOR NEXT BUFFER READ
264	(108)	BITSTRING	4	SPMRGIOT	TRACK ADDRESS OF 1ST REGULAR IOT
268	(10C)	BITSTRING	4	SPMSPIOT	TRACK ADDRESS OF SPIN IOT CHAIN
272	(110)	BITSTRING	4	SPMOCTTR	TRACK ADDRESS OF OCT CHAIN
276	(114)	CHARACTER	8	SPMTOKEN	PIN token for \$GETUCBS
284	(11C)	SIGNED	4	(0)	Ensure fullword <-- alignment in case SPMSG I is used for WTOR I
284	(11C)	BITSTRING	120	SPMSG	Message work area <--
404	(194)	BITSTRING	1	SPMREPLY	Reply area
405	(195)	BITSTRING	1	SPMFLAG1	Spool Manager flag byte

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
406	(196)	BITSTRING	2		Reserved
Comment					
\$BLDMSG MF=L Used for \$BLDMSG					
End of Comment					
408	(198)	SIGNED	4	SPMBLDM (0)	Control block ID
412	(19C)	BITSTRING	4		Console ID
416	(1A0)	ADDRESS	4		Address of the CART
420	(1A4)	ADDRESS	4		Pointer for JOBID
424	(1A8)	ADDRESS	4		Control block address
428	(1AC)	ADDRESS	4		Display routine address
432	(1B0)	ADDRESS	4	(6)	6 word work area
456	(1C8)	BITSTRING	2		ROUT code for Message
458	(1CA)	BITSTRING	2		Not used
460	(1CC)	CHARACTER	4		Message ID
464	(1D0)	CHARACTER	1		Separator character
465	(1D1)	ADDRESS	1		Flag byte 1
466	(1D2)	ADDRESS	1		'DISPER'
467	(1D3)	ADDRESS	1		Flag byte 2
468	(1D4)	BITSTRING	16		Not used
484	(1E4)	ADDRESS	4	(0)	Ensure multiple of 4
484	(1E4)	ADDRESS	2	(0)	
484	(1E4)	SIGNED	4	(0)	ENSURE FULLWORD ALIGNMENT
484	(1E4)	BITSTRING	1	SPMDASWK	DAS indicators save area
484	(1E4)	X'19	0	SPMLNGTH	** -PCEWORK" SPMWORK LENGTH
Comment					
SPMFLAG1 FIRST FLAG BYTE DEFINITIONS					
End of Comment					
484	(1E4)	BITSTRING	0	SPM1ERR	"B'10000000" ERROR ENCOUNTERED DURING JOB MOVE
484	(1E4)	BITSTRING	0	SPM1TGA	"B'01000000" AT LEAST ONE TG ALLOC FOR MOVE

\$SPMWORK Cross Reference

Name	Hex Offset	Hex Value
SPMALLOC	F0	
SPMBLDM	198	C2D3C440
SPMCURBF	F8	
SPMDASWK	1E4	
SPMFLAG1	195	
SPMIOTBF	F4	
SPMJCTBF	EC	
SPMLNGTH	1E4	19
SPMNXTBF	FC	
SPMOCTTR	110	0
SPMREPLY	194	0
SPMRGIOT	108	0
SPMSG	11C	0
SPMSPIOT	10C	0
SPMTOKEN	114	40404040
SPMTRKRD	104	0
SPMTRKWR	100	0
SPMXECB	D8	0
SPM1ERR	1E4	80
SPM1TGA	1E4	40

\$SPMWORK Cross Reference

\$SPNWORK Programming Interface information

Programming Interface information

\$SPNWORK

End of Programming Interface information

\$SPNWORK Heading Information

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

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

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

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

Serialization: Normal PCE dispatch serialization
Function: The fields in this work area are used by a JES2 spin processor. \$SPNWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$SPNWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESPND in the second byte of field PCEID.

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

\$SPNWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP Spin Processor
216	(D8)	BITSTRING	1		\$RDRWORK len (for HASPRJCS)

Comment					

SPIN processors no longer contain an id number in their PCE work areas (field SPNPCEID has been marked 'reserved'.) Instead, all PCEs now have a sequence number in the base section (field PCESEQ.)					

End of Comment					
852	(354)	SIGNED	2		Reserved for future use
852	(354)	BITSTRING	0	SPNPCEOD	"B'00000001" Odd numbered spin PCE
854	(356)	BITSTRING	1	SPNFLAG1	Spin flag byte 1
854	(356)	BITSTRING	0	SPN1DIS	"B'10000000" PCE is disabled
854	(356)	BITSTRING	0	SPN1QSUS	"B'01000000" PCE needs the queues
854	(356)	BITSTRING	0	SPN1JBLK	"B'00100000" PCE needs the job lock
855	(357)	BITSTRING	1		Reserved for future use

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
856	(358)	SIGNED	4	SPNIOTBF	Address of IOT buffer chain
860	(35C)	SIGNED	4	SPNTEMP	Temporary storage
864	(360)	BITSTRING	1	SPNWORK (0)	Prototype Work-JOE
968	(3C8)	BITSTRING	1	SPNCHAR (0)	Prototype Char-JOE
1072	(430)	SIGNED	4	SPNJCTBF	Address of JCT buffer
1076	(434)	BITSTRING	4	SPNJBKEY	JCT Job Identifier Key
1080	(438)	SIGNED	4	SPNERA	Address of ERA
1088	(440)	DBL WORD	8	SPNABTIM	Time of last abend by PCE
1096	(448)	ADDRESS	4	SPNTRCE (0)	Spin PCE trace entry
1128	(468)	SIGNED	4	SPNIOTTR	Save area for track address of next IOT in spin chain
1132	(46C)	SIGNED	4	SPNMOMTR	Save area for mom MOC MTTR
1136	(470)	SIGNED	4	SPNMOMRC	Save area for mom's record
1140	(474)	SIGNED	4	SPNMOMPG	Save area for mom's page
1144	(478)	SIGNED	4	SPNMOMBT	Save area for mom's byte
1144	(478)	X'A4	0	SPNWKSIZ	"*-PCEWORK" Size of Spin PCE work area

\$SPNWORK Cross Reference

Name	Hex Offset	Hex Value
SPNABTIM	440	
SPNCHAR	3C8	
SPNERA	438	
SPNFLAG1	356	
SPNIOTBF	358	
SPNIOTTR	468	
SPNJBKEY	434	
SPNJCTBF	430	
SPNMOMBT	478	
SPNMOMPG	474	
SPNMOMRC	470	
SPNMOMTR	46C	
SPNPCEOD	354	1
SPNTEMP	35C	
SPNTRCE	448	
SPNWKSIZ	478	A4
SPNWORK	360	
SPN1DIS	356	80
SPN1JBLK	356	20
SPN1QSUS	356	40

\$SPUD Heading Information

Common Name: Space Utilization Description Block
Macro ID: \$SPUD
DSECT Name: SPUD
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: SPUD
 Offset: SPUD_ID-SPUD
 Length: L'SPUD_ID
Storage Attributes: Subpool: N/A
 Key: 1
 Residency: In the JES2CKVR data space
Size: See SPUDSIZE
Created by: HASPCKVR
Pointed to by: SCIDSPUD field of \$SCID data area
Serialization: None required.
Function: This description block describes the allotment of space within the checkpoint data space, and serves as a working storage area for the checkpoint versions subtask. This block is the "root" of the data space.

\$SPUD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SPUD	SPace Utilization Description Block
0	(0)	CHARACTER	4	SPUD_ID	SPUD eye catcher
4	(4)	ADDRESS	1	SPUD_CBVN	CB version number
4	(4)	X'2 '	0	SPUDCVNO	"2" Current CB version number
5	(5)	BITSTRING	1		Reserved
6	(6)	SIGNED	2	SPUD_MAX_VERSIONS	Max versions in dataspace
8	(8)	ADDRESS	4	SPUD_FREE_QUEUE	Free Q head
12	(C)	ADDRESS	4	SPUD_HOLD	Hold area CVCB
16	(10)	ADDRESS	4	SPUD_LATEST_VERSION	Active Q head
20	(14)	ADDRESS	4	SPUD_CHECK_AREA	Low end of area
24	(18)	SIGNED	4	SPUD_ACTIVE_COUNT	Number in active queue
28	(1C)	SIGNED	4	SPUD_ENQUEUE_COUNT	Number of CVCBs w/ enqueues
32	(20)	SIGNED	4		Reserved
36	(24)	SIGNED	4	SPUD_DATASET_SIZE	Size MR+4K pages
40	(28)	SIGNED	4	(4)	Reserved
56	(38)	DBL WORD	8	(0)	Alignment
56	(38)	X'38 '	0	SPUDSIZE	**"SPUD" Size of the SPUD

\$SPUD Cross Reference

\$SPUD Cross Reference

Name	Hex Offset	Hex Value
SPUD_ACTIVE_COUNT	18	
SPUD_CBVN	4	
SPUD_CHECK_AREA	14	
SPUD_DATASET_SIZE	24	
SPUD_ENQUEUE_COUNT	1C	
SPUD_FREE_QUEUE	8	
SPUD_HOLD	C	
SPUD_ID	0	
SPUD_LATEST_VERSION	10	
SPUD_MAX_VERSIONS	6	
SPUDCVNO	4	2
SPUDSIZE	38	38

\$SQD Programming Interface information

Programming Interface information

\$SQD

End of Programming Interface information

\$SQD Heading Information

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

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

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

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

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

\$SQD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SQD	
0	(0)	CHARACTER	4	SQDID	Control block ID
4	(4)	ADDRESS	1	SQDLEVEL	Control block version
4	(4)	BITSTRING	0	SQDVERSN	"X'01" Control block version EQU
5	(5)	BITSTRING	3		RESERVED
8	(8)	BITSTRING	20	SQDXECB	XECB POSTed when work completed
28	(1C)	ADDRESS	4	SQDRटना	Addr of rtn to be subtasked
32	(20)	ADDRESS	4	SQDPARM0	Parm list in R0
36	(24)	ADDRESS	4	SQDPARM1	Parm list in R1
40	(28)	SIGNED	4	SQDRRTN	Routine return code
44	(2C)	SIGNED	4	SQDRR0	Routine return R0
48	(30)	SIGNED	4	SQDRR1	Routine return R1
52	(34)	SIGNED	4	SQDRETCD	Subtask return code
56	(38)	BITSTRING	1	SQDFLAG1	Flags
56	(38)	BITSTRING	0	SQD1UNCN	"B'10000000" Unconditional routine call
56	(38)	BITSTRING	0	SQD1HCT	"B'01000000" HCT in R11
56	(38)	BITSTRING	0	SQD1HCCT	"B'00100000" HCCT in R11
56	(38)	BITSTRING	0	SQD1NOST	"B'00010000" Routine called w/o subtask
56	(38)	BITSTRING	0	SQD1WAIT	"B'00001000" WAIT=YES was specified
56	(38)	BITSTRING	0	SQD1FREE	"B'00000100" FREESQD=YES specified
57	(39)	BITSTRING	1	SQDPRI0	Priority of request (1 is high, 2 is regular, 3 is low)
58	(3A)	BITSTRING	2		Reserved for future use
60	(3C)	ADDRESS	4	(8)	Reserved for future use

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Subtask VRA and recovery information.					
End of Comment					
92	(5C)	ADDRESS	4	SQDCLRA	\$SUBIT caller address
96	(60)	CHARACTER	8	SQDRNAME	Routine name
104	(68)	CHARACTER	8	SQDJOBID	JOBID associated with req.
112	(70)	CHARACTER	8	SQDJOBNM	JOBNAME associated with req
120	(78)	DBL WORD	8	SQDEND (0)	End SQD on a double word
120	(78)	X'78	0	SQDLEN	"SQDEND-SQD" Length of SQD

\$SQD Cross Reference

Name	Hex Offset	Hex Value
SQDCLRA	5C	
SQDEND	78	
SQDFLAG1	38	
SQDID	0	E2D8C440
SQDJOBID	68	
SQDJOBNM	70	
SQDLEN	78	78
SQDLEVEL	4	
SQDPARM0	20	
SQDPARM1	24	
SQDPRIO	39	
SQDRETCD	34	
SQDRNAME	60	
SQDRRTN	28	
SQDRR0	2C	
SQDRR1	30	
SQDRTNA	1C	
SQDVERSN	4	1
SQDXECB	8	
SQD1FREE	38	4
SQD1HCCT	38	20
SQD1HCT	38	40
SQD1NOST	38	10
SQD1UNCN	38	80
SQD1WAIT	38	8

\$SQD Cross Reference

\$STCWORK Programming Interface Information

Programming Interface Information

\$STCWORK

End of Programming Interface Information

\$STCWORK Heading Information

Common Name: JES2 Status/Cancel Work Area DSECT
Macro ID: \$STCWORK
DSECT Name: PCE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: 1
 Key: 1
 Residency: VIRTUAL - anywhere REAL - anywhere
Size: See STCPCEWL
Created by: \$PCEDYN
Pointed to by: \$STACPCE field of the \$HCT data area
 FREQUENCY: 1 per STATUS/CANCEL processor
Serialization: Normal PCE dispatch serialization
Function: PCE work area for STATUS/CANCEL

\$STCWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	JES2 STC processor executive
216	(D8)	DBL WORD	8	STCWORK	Processor work area
224	(E0)	BITSTRING	1	STCFLAG1	STC flags
224	(E0)	BITSTRING	0	STC1SGL	"B'10000000" Exit single request
224	(E0)	BITSTRING	0	STC1MUL	"B'01000000" Exit multiple request
224	(E0)	BITSTRING	0	STC1EXCL	"B'00100000" Exit called request
225	(E1)	BITSTRING	3		Reserved
228	(E4)	SIGNED	4	STCXPARM (0)	Exit parm list
228	(E4)	SIGNED	4	STCXSB	Exit parm one
232	(E8)	DBL WORD	8	(0)	Align STC work area
232	(E8)	X'10	0	STCPCEWL	** -PCEWORK" STC PCE work area length

\$STCWORK Cross Reference

Name	Hex Offset	Hex Value
STCFLAG1	E0	
STCPCEWL	E8	10
STCWORK	D8	
STCXPARM	E4	
STCXSB	E4	
STC1EXCL	E0	20
STC1MUL	E0	40
STC1SGL	E0	80

\$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.

\$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					

<p>The following fields are defined over the buffer prefix in order to ensure that they are never written to SPOOL.</p>					

End of Comment					
0	(0)	X'40	0	SWBSWB	"BUFMEMW1-BFPDSECT+SWBIT" Storage address of next SWBIT
Comment					

<p>End of buffer prefix fields</p>					

End of Comment					
0	(0)	BITSTRING	1	(0)	BUFFER INFORMATION
0	(0)	X'68	0	SWBSTART	***
Comment					

<p>The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer.</p> <p>The following fields are defined:</p> <ul style="list-style-type: none"> 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	SWBJBNUM	Job number
120	(78)	BITSTRING	8	SWBKEY (0)	Record verification key
120	(78)	SIGNED	4	SWBJBKEY	Job key
124	(7C)	SIGNED	4	SWBDSKEY	Dataset key
124	(7C)	X'18	0	SWBSPLNG	**_SWBITID"
Comment					

<p>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.</p>					

End of Comment					
124	(7C)	X'78	0	SWBJKEY	"SWBJBKEY" EQU for Job key
124	(7C)	X'7C	0	SWBDKEY	"SWBDSKEY" EQU for data set key
124	(7C)	X'6C	0	SWBJOBNM	"SWBJNAME" EQU for job name
128	(80)	ADDRESS	2	SWBILENG	LEN OF SWB DATA RET BY GETSWB
130	(82)	ADDRESS	2	SWBELENG	Len of TU Erase list
132	(84)	ADDRESS	4	SWBTRACK	TRACK ADDRESS OF THIS SWBIT
136	(88)	ADDRESS	4	SWBSWBTR	TRACK ADDRESS OF NEXT SWBIT
140	(8C)	ADDRESS	4	(2)	RESERVED FOR FUTURE USE

\$SWBIT Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
140	(8C)	X'94	0	SWBISIZ	**"-SWBIT" SIZE OF SWBIT
148	(94)	SIGNED	4	SWBDATA (0)	START OF SWBS

\$SWBIT Cross Reference

Name	Hex Offset	Hex Value
SWBDATA	94	
SWBDKEY	7C	7C
SWBDSKEY	7C	
SWBELENG	82	
SWBILENG	80	
SWBISIZ	8C	94
SWBITID	68	
SWBJBKEY	78	
SWBJBNUM	74	
SWBJKEY	7C	78
SWBJNAME	6C	
SWBJOBNM	7C	6C
SWBKEY	78	
SWBSPLNG	7C	18
SWBSTART	0	68
SWBSWB	0	40
SWBSWBTR	88	
SWBTRACK	84	

\$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@PSTCKPT	"V(PSTCKPT)" CKPTDEF postscan
40	(28)	ADDRESS	4	SX@PSTCKPTN	"V(PSTCKPTN)" CKPTDEF CKPTn/NEWCKPTn postscan
44	(2C)	ADDRESS	4	SX@PSTCKVRS	"V(PSTCKVRS)" CKPTDEF VERSIONS=NUMBER= postscan
48	(30)	ADDRESS	4	SX@PSTDSN	"V(PSTDSN)" CKPTDEF CKPT1/NEWCKPT1 DSNAME= postscan
52	(34)	ADDRESS	4	SX@PSTCKVOL	"V(PSTCKVOL)" CKPTDEF CKPT1/NEWCKPT1 VOLUME= postscan
56	(38)	ADDRESS	4	SX@PSTCF	"V(PSTCF)" CKPTDEF CKPT1/NEWCKPT1 STRNAME= postscan
60	(3C)	ADDRESS	4	SX@PREVOLT	"V(PREVOLT)" CKPTDEF CKPTn=VOLATILE= prescan

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
64	(40)	ADDRESS	4	SX@PSTCKMOD	"V(PSTCKMOD)" CKPTDEF MODE= postscan
68	(44)	ADDRESS	4	SX@PSTCKLCK	"V(PSTCKLCK)" \$E CKPTLOCK postscan
72	(48)	ADDRESS	4	SX@PSTCKPSP	"V(PSTCKPSP)" CKPTSPACE postscan for \$T
76	(4C)	ADDRESS	4	SX@PSTBRNUM	"V(PSTBRNUM)" CKPTSPACE BERTNUM= postscan
80	(50)	ADDRESS	4	SX@PREDCOMP	"V(PREDCOMP)" COMPACT prescan
84	(54)	ADDRESS	4	SX@PSTCOMP	"V(PSTCOMP)" COMPACT postscan
88	(58)	ADDRESS	4	SX@PREDCHAR	"V(PREDCHAR)" COMPACT CHARS= prescan
92	(5C)	ADDRESS	4	SX@PSTCMB	"V(PSTCMB)" CONDEF postscan
96	(60)	ADDRESS	4	SX@PSTPREFIX	"V(PSTPREFIX)" CONDEF postscan
100	(64)	ADDRESS	4	SX@PSTCNCHR	"V(PSTCNCHR)" CONDEF CONCHAR= postscan
104	(68)	ADDRESS	4	SX@PSTSCOPE	"V(PSTSCOPE)" CONDEF SCOPE= postscan
108	(6C)	ADDRESS	4	SX@PSTDEBUG	"V(PSTDEBUG)" DEBUG postscan
112	(70)	ADDRESS	4	SX@PREDEST	"V(PREDEST)" DESTID DEST= prescan
116	(74)	ADDRESS	4	SX@PREDESI	"V(PREDESI)" DESTID prescan
120	(78)	ADDRESS	4	SX@PSTDESI	"V(PSTDESI)" DESTID postscan
124	(7C)	ADDRESS	4	SX@PSTEST	"V(PSTEST)" ESTBYTE/ESTIME/ESTLNCT/ESTPAGE/ ESTPUN postscan
128	(80)	ADDRESS	4	SX@PREDEXIT	"V(PREDEXIT)" EXIT prescan
132	(84)	ADDRESS	4	SX@PREDSBEX	"V(PREDSBEX)" EXIT ROUTINES= prescan
136	(88)	ADDRESS	4	SX@PSTEXRTN	"V(PSTEXRTN)" EXIT ROUTINES= postscan
140	(8C)	ADDRESS	4	SX@PREFSSDF	"V(PREFSSDF)" FSS prescan
144	(90)	ADDRESS	4	SX@PSTFSSDF	"V(PSTFSSDF)" FSS postscan
148	(94)	ADDRESS	4	SX@PREINCL	"V(PREINCL)" INCLUDE Prescan
152	(98)	ADDRESS	4	SX@PSTINCL	"V(PSTINCL)" INCLUDE Postscan
156	(9C)	ADDRESS	4	SX@PSTINCDS	"V(PSTINCDS)" INCLUDE DSNAME= Postscan
160	(A0)	ADDRESS	4	SX@CLNUPPRW	"V(CLNUPPRW)" INCLUDE cleanup routine
164	(A4)	ADDRESS	4	SX@PREINIT	"V(PREINIT)" INIT prescan
168	(A8)	ADDRESS	4	SX@PSTINIT	"V(PSTINIT)" INIT postscan
172	(AC)	ADDRESS	4	SX@PREPSJB	"V(PREPSJB)" INIT subparm= prescan
176	(B0)	ADDRESS	4	SX@PREPITCL	"V(PREPITCL)" INIT CLASS= prescan
180	(B4)	ADDRESS	4	SX@PREINECL	"V(PREINECL)" INIT INELIGIBLE_CLASS= prescan
184	(B8)	ADDRESS	4	SX@PREAUTH	"V(PREAUTH)" JOBCLASS/STCCCLASS/TSUCLASS AUTH= prescan
188	(BC)	ADDRESS	4	SX@PREAUTH	"V(PREAUTH)" JOBCLASS/STCCCLASS/TSUCLASS AUTH= prescan
192	(C0)	ADDRESS	4	SX@PSTQHPST	"V(PSTQHPST)" JOBCLASS QHELD,TYPE,MAX
196	(C4)	ADDRESS	4	SX@PSTJQPST	"V(PSTJQPST)" General routine to post XEQ
200	(C8)	ADDRESS	4	SX@PSTOGDJC	"V(PSTOGDJC)" JOBCLASS/STCCCLASS/TSUCLASS OUTDISP= postscan
204	(CC)	ADDRESS	4	SX@PREOGDJC	"V(PREOGDJC)" JOBCLASS/STCCCLASS/TSUCLASS OUTDISP= prescan
208	(D0)	ADDRESS	4	SX@PREREGN	"V(PREREGN)" JOBCLASS/STCCCLASS/TSUCLASS REGION= prescan
212	(D4)	ADDRESS	4	SX@PSTREGN	"V(PSTREGN)" JOBCLASS/STCCCLASS/TSUCLASS REGION= postscan
216	(D8)	ADDRESS	4	SX@PSTCAT	"V(PSTCAT)" STCCCLASS/TSUCLASS postscan
220	(DC)	ADDRESS	4	SX@PREJESLS	"V(PREJESLS)" JOBCLASS JESLOG SET prescan
224	(E0)	ADDRESS	4	SX@PREJESLD	"V(PREJESLD)" JOBCLASS JESLOG DISP prescan
228	(E4)	ADDRESS	4	SX@PSTDUPJB	"V(PSTDUPJB)" JOBDEF postscan for dup job
232	(E8)	ADDRESS	4	SX@PSTJOBDF	"V(PSTJOBDF)" JOBDEF postscan for \$T
236	(EC)	ADDRESS	4	SX@PSTJBNUM	"V(PSTJBNUM)" JOBDEF JOBNUM= postscan
240	(F0)	ADDRESS	4	SX@PREJRBLD	"V(PREJRBLD)" JOBDEF JOBRBLDQ=/OUTDEF JOERBLDQ= prescan
244	(F4)	ADDRESS	4	SX@PSTJRNG	"V(PSTJRNG)" JOBDEF RANGE postscan
248	(F8)	ADDRESS	4	SX@PSTPRTY	"V(PSTPRTY)" JOBDEF PRTYRATE= postscan
252	(FC)	ADDRESS	4	SX@PREMESYS	"V(PREMEYS)" MASDEF AUTOEMEM= prescan
256	(100)	ADDRESS	4	SX@PSTMESYS	"V(PSTMESYS)" MASDEF AUTOEMEM= postscan
260	(104)	ADDRESS	4	SX@PRERHELD	"V(PRERHELD)" MASDEF RSVHELD= prescan
264	(108)	ADDRESS	4	SX@PSTHOLD	"V(PSTHOLD)" MASDEF HOLD= postscan
268	(10C)	ADDRESS	4	SX@PREDQST	"V(PREDQST)" MEMBER STATUS= prescan
272	(110)	ADDRESS	4	SX@PREMDEFD	"V(PREMDEFD)" MEMBER IND= prescan
276	(114)	ADDRESS	4	SX@PSTNAME	"V(PSTNAME)" MEMBER NAME=/MASDEF OWNMEMB= postscan
280	(118)	ADDRESS	4	SX@PREDRBY	"V(PREDRBY)" MEMBER RESETBY= prescan

\$SXADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
284	(11C)	ADDRESS	4	SX@PSTMIND	"V(PSTMIND)" MEMBER IND= postscan
288	(120)	ADDRESS	4	SX@PSTEMEM	"V(PSTEMEM)" MEMBER postscan
292	(124)	ADDRESS	4	SX@PREDEMEM	"V(PREDEMEM)" MEMBER prescan
296	(128)	ADDRESS	4	SX@PRECKPTT	"V(PRECKPTT)" MEMBER TIME= prescan
300	(12C)	ADDRESS	4	SX@PREMSNM	"V(PREMSNM)" MEMBER SYSNAME= prescan
304	(130)	ADDRESS	4	SX@PSTOUTDF	"V(PSTOUTDF)" OUTDEF postscan for \$T
308	(134)	ADDRESS	4	SX@PSTJONUM	"V(PSTJONUM)" OUTDEF JOENUM= postscan
312	(138)	ADDRESS	4	SX@PSTPRYO	"V(PSTPRYO)" OUTDEF PRYORATE= postscan
316	(13C)	ADDRESS	4	SX@PSTSEGLM	"V(PSTSEGLM)" OUTDEF SEGLIM= postscan
320	(140)	ADDRESS	4	SX@PREOGDOS	"V(PREOGDOS)" OUTCLASS prescan
324	(144)	ADDRESS	4	SX@PSTOGDOS	"V(PSTOGDOS)" OUTCLASS postscan
328	(148)	ADDRESS	4	SX@PREOGDOC	"V(PREOGDOC)" OUTCLASS OUTDISP= prescan
332	(14C)	ADDRESS	4	SX@PSTOGDOC	"V(PSTOGDOC)" OUTCLASS OUTDISP= postscan
336	(150)	ADDRESS	4	SX@PREPCETB	"V(PREPCETB)" PCE command prescan
340	(154)	ADDRESS	4	SX@PSTPCETB	"V(PSTPCETB)" PCE set command postscan
344	(158)	ADDRESS	4	SX@PREPCEDT	"V(PREPCEDT)" PCE DETAILS prescan
348	(15C)	ADDRESS	4	SX@PREPCEDN	"V(PREPCEDN)" PCE DETAILS NAME prescan
352	(160)	ADDRESS	4	SX@PREPCEDW	"V(PREPCEDW)" PCE DETAILS WAIT prescan
356	(164)	ADDRESS	4	SX@PREPCEDJ	"V(PREPCEDJ)" PCE DETAILS CURJOB prescan
360	(168)	ADDRESS	4	SX@PREPRFRS	"V(PREPRFRS)" PERFDATA RESET prescan
364	(16C)	ADDRESS	4	SX@PREPRFSU	"V(PREPRFSU)" PERFDATA setup prescan
368	(170)	ADDRESS	4	SX@PREEVDUR	"V(PREEVDUR)" PERFDATA(EVENT) DURATION=
372	(174)	ADDRESS	4	SX@PREPRFPC	"V(PREPRFPC)" PERFDATA(PCESTAT) CPU% prescan
376	(178)	ADDRESS	4	SX@PREPRFNL	"V(PREPRFNL)" PERFDATA(PCESTAT) PCENAME= prescan
380	(17C)	ADDRESS	4	SX@PREPRFFL	"V(PREPRFFL)" PERFDATA(PCESTAT) PCENAME= prescan
384	(180)	ADDRESS	4	SX@PREPRFPS	"V(PREPRFPS)" PERFDATA(PCESTAT) POST= prescan
388	(184)	ADDRESS	4	SX@PREPRFWT	"V(PREPRFWT)" PERFDATA(PCESTAT) WAIT= prescan
392	(188)	ADDRESS	4	SX@PREPRFWA	"V(PREPRFWA)" PERFDATA(PCESTAT) AVGWAIT= prescan
396	(18C)	ADDRESS	4	SX@PREPRFPA	"V(PREPRFPA)" PERFDATA(PCESTAT) AVGWAIT= prescan
400	(190)	ADDRESS	4	SX@PREPRFQA	"V(PREPRFQA)" PERFDATA(QSUSE) AVGWAIT= prescan
404	(194)	ADDRESS	4	SX@PREPDRPT	"V(PREPDRPT)" PERFDATA(SAMPDATA) RPTCLASS=
408	(198)	ADDRESS	4	SX@PREPDSRV	"V(PREPDSRV)" PERFDATA(SAMPDATA) SRVCLASS=
412	(19C)	ADDRESS	4	SX@PREWSC	"V(PREWSC)" PERFDATA(SAMPDATA) SRVCLASS=
416	(1A0)	ADDRESS	4	SX@PREPRFZR	"V(PREPRFZR)" PERFDATA skip if 0 prescan
420	(1A4)	ADDRESS	4	SX@PREPRFDT	"V(PREPRFDT)" PERFDATA microsecond display prescan
424	(1A8)	ADDRESS	4	SX@PSTRECV	"V(PSTRECV)" RECVOPTS postscan
428	(1AC)	ADDRESS	4	SX@PRERDSTM	"V(PRERDSTM)" REDIRECT prescan
432	(1B0)	ADDRESS	4	SX@PSTRDSTM	"V(PSTRDSTM)" REDIRECT postscan
436	(1B4)	ADDRESS	4	SX@PRECMDR	"V(PRECMDR)" REDIRECT subparm= prescan
440	(1B8)	ADDRESS	4	SX@PRESPOOL	"V(PRESPOOL)" SPOOL prescan
444	(1BC)	ADDRESS	4	SX@PSTSPOOL	"V(PSTSPOOL)" SPOOL postscan
448	(1C0)	ADDRESS	4	SX@PREDUSEC	"V(PREDUSEC)" SPOOL TGINUSE= prescan
452	(1C4)	ADDRESS	4	SX@PREDUSEP	"V(PREDUSEP)" SPOOL PERCENT= prescan
456	(1C8)	ADDRESS	4	SX@CVLDRAIN	"V(CVLDRAIN)" SPOOL AWAITING= prescan
460	(1CC)	ADDRESS	4	SX@PREDSSAF	"V(PREDSSAF)" SPOOL SYSAFF= prescan
464	(1D0)	ADDRESS	4	SX@PREFSPAF	"V(PREFSPAF)" SPOOL SYSAFF= prescan fltr
468	(1D4)	ADDRESS	4	SX@PSTDWRKQ	"V(PSTDWRKQ)" SPOOL STATUS= postscan
472	(1D8)	ADDRESS	4	SX@PSTSPSAF	"V(PSTSPSAF)" SPOOL SYSAFF= postscan
476	(1DC)	ADDRESS	4	SX@PSTSPLDF	"V(PSTSPLDF)" SPOOLDEF postscan for \$T
480	(1E0)	ADDRESS	4	SX@PSTSPL	"V(PSTSPL)" SPOOLDEF SPOOLNUM= postscan
484	(1E4)	ADDRESS	4	SX@PSTFEN	"V(PSTFEN)" SPOOLDEF postscan for \$T
488	(1E8)	ADDRESS	4	SX@PSTFENO	"V(PSTFENO)" SPOOLDEF FENCE=YES postscan
492	(1EC)	ADDRESS	4	SX@PRESDFRE	"V(PRESDFRE)" SPOOLDEF TGSPACE=FREE pre
496	(1F0)	ADDRESS	4	SX@PRESDPCT	"V(PRESDPCT)" SPOOLDEF PERCENT= prescan
500	(1F4)	ADDRESS	4	SX@PSTSPDVL	"V(PSTSPDVL)" SPOOLDEF VOLUME= postscan
504	(1F8)	ADDRESS	4	SX@PREDSSI	"V(PREDSSI)" SSI prescan
508	(1FC)	ADDRESS	4	SX@PSTTP	"V(PSTTP)" TPDEF postscan
512	(200)	ADDRESS	4	SX@PSTSICE	"V(PSTSICE)" TPDEF postscan
516	(204)	ADDRESS	4	SX@PSTLSPIN	"V(PSTLSPIN)" TRACEDEF SPIN postscan
520	(208)	ADDRESS	4	SX@PSTNOTAB	"V(PSTNOTAB)" TRACEDEF postscan
524	(20C)	ADDRESS	4	SX@PRETFID	"V(PRETFID)" TRACEDEF IDS= prescan
528	(210)	ADDRESS	4	SX@PRETRCID	"V(PRETRCID)" TRACE prescan
532	(214)	ADDRESS	4	SX@PRECRSYS	"V(PRECRSYS)" \$HASP607 RC=06 prescan

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
536	(218)	ADDRESS	4	SX@PRENULL	"V(PRENULL)" General prescan routine to skip keyword (returns RC=8)
540	(21C)	ADDRESS	4	SX@PSTLIM1	"V(PSTLIM1)" General LIMIT/PLIM/RANGE postscan
544	(220)	ADDRESS	4	SX@PRELIMIT	"V(PRELIMIT)" General LIMIT/PLIM/RANGE prescan
548	(224)	ADDRESS	4	SX@PSTLIMIT	"V(PSTLIMIT)" General LIMIT/PLIM/RANGE postscan
552	(228)	ADDRESS	4	SX@PREQSUSE	"V(PREQSUSE)" General prescan to do \$QSUSE
556	(22C)	ADDRESS	4	SX@PREHOTS	"V(PREHOTS)" General prescan to ignore keyword on hot start
560	(230)	ADDRESS	4	SX@PREDNEGZ	"V(PREDNEGZ)" General prescan to display 0 for negative value
564	(234)	ADDRESS	4	SX@PREDNOCB	"V(PREDNOCB)" General prescan to test for missing control block
568	(238)	ADDRESS	4	SX@PRECKLEV	"V(PRECKLEV)" General prescan to check for dynamic CKPT level
572	(23C)	ADDRESS	4	SX@PRECSTKL	"V(PRECSTKL)" General prescan to display STCK yyyy.ddd,hh:mm:ss.ss Display local time
576	(240)	ADDRESS	4	SX@PRECSTCK	"V(PRECSTCK)" General prescan to display STCK yyyy.ddd,hh:mm:ss.ss Display GMT
580	(244)	ADDRESS	4	SX@PRECAT	"V(PRECAT)" JOBCLASS prescan
584	(248)	ADDRESS	4	SX@PRECATTS	"V(PRECATTS)" STCCCLASS/TSUCLASS prescan
588	(24C)	ADDRESS	4		Reserved - delete for xmit
592	(250)	ADDRESS	4	SX@CLNUPCAT	"V(CLNUPCAT)" JOBCLASS cleanup routine
596	(254)	ADDRESS	4	SX@PREPITRS	"V(PREPITRS)" INIT STATUS=STARTING prescan
600	(258)	ADDRESS	4	SX@PREDSAFL	"V(PREDSAFL)" General prescan to display list of affinities
604	(25C)	ADDRESS	4	SX@PSTACTIV	"V(PSTACTIV)" \$ACTIVATE postscan
608	(260)	ADDRESS	4	SX@PREISTC	"V(PREISTC)" INIT STC= prescan
612	(264)	ADDRESS	4	SX@PREACTSZ	"V(PREACTSZ)" \$D ACTIVATE prescan
616	(268)	ADDRESS	4	SX@PSTCATSC	"V(PSTCATSC)" JOBCLASS SCHENV= postscan
620	(26C)	ADDRESS	4	SX@PSTCSCHE	"V(PSTCSCHE)" JOBCLASS SCHENV = Pstscan
624	(270)	ADDRESS	4	SX@PREZAPJB	"V(PREZAPJB)" ZAPJOB Prescan
628	(274)	ADDRESS	4	SX@PSTZAPJB	"V(PSTZAPJB)" ZAPJOB Postscan
632	(278)	ADDRESS	4	SX@PSTVJBID	"V(PSTVJBID)" Validate JOBID keyword
636	(27C)	ADDRESS	4		Reserved for future use
640	(280)	ADDRESS	4		Reserved for future use
644	(284)	ADDRESS	4		Reserved for future use
648	(288)	ADDRESS	4		Reserved for future use
652	(28C)	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

656	(290)	ADDRESS	4	SX@PREACMEM	"V(PREACMEM)" ACTRMT MEMBER= prescan
660	(294)	ADDRESS	4	SX@PSTIRTRC	"V(PSTIRTRC)" INTRDR TRACE=
664	(298)	ADDRESS	4	SX@PRELDVL	"V(PRELDVL)" Ln prescan
668	(29C)	ADDRESS	4	SX@PRELDEV	"V(PRELDEV)" Ln.dev prescan
672	(2A0)	ADDRESS	4	SX@PSTTRANS	"V(PSTTRANS)" Ln.dev postscan
676	(2A4)	ADDRESS	4	SX@PRELINE	"V(PRELINE)" LINE prescan
680	(2A8)	ADDRESS	4	SX@PSTLINE	"V(PSTLINE)" LINE postscan
684	(2AC)	ADDRESS	4	SX@PSTLINEA	"V(PSTLINEA)" LINE postscan
688	(2B0)	ADDRESS	4	SX@PRELDFLT	"V(PRELDFLT)" LINE JTNUM=/STNUM=/JRNUM=/SRNUM= prescan
692	(2B4)	ADDRESS	4	SX@PRELNEERS	"V(PRELNEERS)" LINE RMTSHARE= prescan
696	(2B8)	ADDRESS	4	SX@PRELINST	"V(PRELINST)" LINE STATUS= prescan
700	(2BC)	ADDRESS	4	SX@PSTLINST	"V(PSTLINST)" LINE STATUS= postscan
704	(2C0)	ADDRESS	4	SX@PSTLGNA	"V(PSTLGNA)" LOGON postscan
708	(2C4)	ADDRESS	4	SX@PREOGDSR	"V(PREOGDSR)" OFFn.SR OUTDISP= prescan
712	(2C8)	ADDRESS	4	SX@PSTMDRC	"V(PSTMDRC)" OFFn.SR MOD=ROUTECD= postscan
716	(2CC)	ADDRESS	4	SX@PREOGDST	"V(PREOGDST)" OFFn.ST/Ln.ST OUTDISP= prescan
720	(2D0)	ADDRESS	4	SX@PSTMDSAF	"V(PSTMDSAF)" OFFn.JR MOD=SYSAFF= postscan
724	(2D4)	ADDRESS	4	SX@PREDSAF	"V(PREDSAF)" OFF.JT/OFF.JR SYSAFF= prescan

\$SXADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
728	(2D8)	ADDRESS	4	SX@PSTSAF	"V(PSTSAF)" OFF.JT/OFF.JR SYSAFF= postscan
732	(2DC)	ADDRESS	4	SX@PSTOARCH	"V(PSTOARCH)" OFFLOAD ARCHIVE= postscan
736	(2E0)	ADDRESS	4	SX@PREPROCL	"V(PREPROCL)" PROCLIB prescan
740	(2E4)	ADDRESS	4	SX@PSTPROCL	"V(PSTPROCL)" PROCLIB postscan
744	(2E8)	ADDRESS	4	SX@CLNUPPAD	"V(CLNUPPAD)" PROCLIB cleanup routine
748	(2EC)	ADDRESS	4	SX@PREPRT	"V(PREPRT)" PRT prescan
752	(2F0)	ADDRESS	4	SX@PSTPRT	"V(PSTPRT)" PRT postscan
756	(2F4)	ADDRESS	4	SX@PREDFLNO	"V(PREDFLNO)" PRT DEVFLASH= prescan
760	(2F8)	ADDRESS	4	SX@PSTPRDFL	"V(PSTPRDFL)" PRT DEVFLASH= postscan
764	(2FC)	ADDRESS	4	SX@PSTDDFCB	"V(PSTDDFCB)" PRT/Rn.PRn DEVFCB= postscan
768	(300)	ADDRESS	4	SX@PSTPRFCB	"V(PSTPRFCB)" PRT/Rn.PRn FCB= postscan
772	(304)	ADDRESS	4	SX@PSTDFCB	"V(PSTDFCB)" PRT/Rn.PRn FCB= postscan
776	(308)	ADDRESS	4	SX@PSTPRFLS	"V(PSTPRFLS)" PRT FLASH= postscan
780	(30C)	ADDRESS	4	SX@PREDFSS	"V(PREDFSS)" PRT FSS= prescan
784	(310)	ADDRESS	4	SX@PSTSFSS	"V(PSTSFSS)" PRT FSS= postscan
788	(314)	ADDRESS	4	SX@PRELSFRM	"V(PRELSFRM)" PRT LASTFORM= prescan
792	(318)	ADDRESS	4	SX@PREPMODE	"V(PREPMODE)" PRT PRMODE= prescan
796	(31C)	ADDRESS	4	SX@PSTPRUCS	"V(PSTPRUCS)" PRT/Rn.PRn UCS= postscan
800	(320)	ADDRESS	4	SX@PSTDUCS	"V(PSTDUCS)" PRT/Rn.PRn UCS= postscan
804	(324)	ADDRESS	4	SX@PFSQUERY	"V(PFSQUERY)" PRT subparm= prescan (FSS query)
808	(328)	ADDRESS	4	SX@PFSQFREE	"V(PFSQFREE)" PRT subparm= prescan (PFSQUERY cleanup)
812	(32C)	ADDRESS	4	SX@PRENIPRT	"V(PRENIPRT)" PRT subparm= prescan (test non-impact)
816	(330)	ADDRESS	4	SX@PREPIFNL	"V(PREPIFNL)" PRT subparm= prescan (test **** value)
820	(334)	ADDRESS	4	SX@PRPRESET	"V(PRPRESET)" PRT subparm= prescan (test RESET value)
824	(338)	ADDRESS	4	SX@PREDEVDR	"V(PREDEVDR)" PRT subparm= prescan (test drain)
828	(33C)	ADDRESS	4	SX@PREOPACT	"V(PREOPACT)" PRT subparm= prescan (test operator action)
832	(340)	ADDRESS	4	SX@PSTFSUPD	"V(PSTFSUPD)" PRT subparm= postscan (FSA update)
836	(344)	ADDRESS	4	SX@PSTFSNSP	"V(PSTFSNSP)" PRT subparm= postscan (FSACB update)
840	(348)	ADDRESS	4	SX@PSTFSSET	"V(PSTFSSET)" PRT subparm= postscan (FSS SET order)
844	(34C)	ADDRESS	4	SX@PSTFSYNC	"V(PSTFSYNC)" PRT subparm= postscan (FSS SYNCH order)
848	(350)	ADDRESS	4	SX@PSTPUN	"V(PSTPUN)" PUN postscan
852	(354)	ADDRESS	4	SX@PRERDEV	"V(PRERDEV)" Rn.dev prescan
856	(358)	ADDRESS	4	SX@PRERDVAU	"V(PRERDVAU)" PR/PU/RD prescan to verify command from remote device
860	(35C)	ADDRESS	4	SX@PSTSELCT	"V(PSTSELCT)" Rn.PRn/Rn.PUn SELECT= postscan
864	(360)	ADDRESS	4	SX@PREDSLCT	"V(PREDSLCT)" Rn.PRn/Rn.PUn SELECT= prescan
868	(364)	ADDRESS	4	SX@PSTRDVCM	"V(PSTRDVCM)" Rn.PRn/Rn.PUn CMPCT= postscan
872	(368)	ADDRESS	4	SX@PSTRDVCO	"V(PSTRDVCO)" Rn.PRn/Rn.PUn COMPRESS= postscan
876	(36C)	ADDRESS	4	SX@PSTRDEV	"V(PSTRDEV)" Rn.PRn/Rn.PUn postscan
880	(370)	ADDRESS	4	SX@PRERMTRC	"V(PRERMTRC)" Rn.PRn/Rn.PUn ROUTECDE= prescan
884	(374)	ADDRESS	4	SX@PRERPZPT	"V(PRERPZPT)" Rn.PRn/Rn.PUn COMPACT= prescan
888	(378)	ADDRESS	4	SX@PREDPZPT	"V(PREDPZPT)" Rn.PRn/Rn.PUn COMPACT= prescan
892	(37C)	ADDRESS	4	SX@PRERMT	"V(PRERMT)" RMT prescan
896	(380)	ADDRESS	4	SX@PSTRMT	"V(PSTRMT)" RMT postscan
900	(384)	ADDRESS	4	SX@PSTRMTA	"V(PSTRMTA)" RMT postscan
904	(388)	ADDRESS	4	SX@PSTRMTLN	"V(PSTRMTLN)" RMT LINE= prescan
908	(38C)	ADDRESS	4	SX@PRERMTP	"V(PRERMTP)" RMT PASSWORD= prescan
912	(390)	ADDRESS	4	SX@PRERMTPSH	"V(PRERMTPSH)" RMT SHARABLE= prescan
916	(394)	ADDRESS	4	SX@PSTRMTSH	"V(PSTRMTSH)" RMT SHARABLE= postscan
920	(398)	ADDRESS	4	SX@PRERMTPST	"V(PRERMTPST)" RMT STATUS= prescan
924	(39C)	ADDRESS	4	SX@PREMULFM	"V(PREMULFM)" Device FORMS= prescan
928	(3A0)	ADDRESS	4	SX@PSTWFORM	"V(PSTWFORM)" Device FORMS= postscan
932	(3A4)	ADDRESS	4	SX@PSTJOBNM	"V(PSTJOBNM)" Device JOBNAME= postscan
936	(3A8)	ADDRESS	4	SX@PSTPRMD	"V(PSTPRMD)" Device PRMODE= postscan
940	(3AC)	ADDRESS	4	SX@PREDPRMD	"V(PREDPRMD)" Device PRMODE= prescan
944	(3B0)	ADDRESS	4	SX@PREFPRMD	"V(PREFPRMD)" Device PRMODE= prescan
948	(3B4)	ADDRESS	4	SX@PRERDEST	"V(PRERDEST)" Device PRTDEST/PUNDEST/XEQDEST prescan
952	(3B8)	ADDRESS	4	SX@PRERNG	"V(PRERNG)" Device RANGE= prescan
956	(3BC)	ADDRESS	4	SX@PREDRNG	"V(PREDRNG)" Device RANGE= prescan
960	(3C0)	ADDRESS	4	SX@PSTRC	"V(PSTRC)" Device ROUTECDE= postscan
964	(3C4)	ADDRESS	4	SX@PREDRC	"V(PREDRC)" Device ROUTECDE= prescan
968	(3C8)	ADDRESS	4	SX@PREFRC	"V(PREFRC)" Device ROUTECDE= prescan
972	(3CC)	ADDRESS	4	SX@PREDSTAT	"V(PREDSTAT)" Device STATUS= prescan

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
976	(3D0)	ADDRESS	4	SX@PREDDVJB	"V(PREDDVJB)" Device STATUS= prescan
980	(3D4)	ADDRESS	4	SX@PREDDVRC	"V(PREDDVRC)" Device STATUS= prescan
984	(3D8)	ADDRESS	4	SX@PREDRSAF	"V(PREDRSAF)" Device SYSAFF= prescan
988	(3DC)	ADDRESS	4	SX@PSTSRSAF	"V(PSTSRSAF)" Device SYSAFF= postscan
992	(3E0)	ADDRESS	4	SX@PSTUNIT	"V(PSTUNIT)" Device UNIT= postscan
996	(3E4)	ADDRESS	4	SX@PREUNIT	"V(PREUNIT)" Device UNIT= postscan
1000	(3E8)	ADDRESS	4	SX@PSTVOL	"V(PSTVOL)" Device VOLUME= postscan
1004	(3EC)	ADDRESS	4	SX@PREDWS	"V(PREDWS)" Device WS= prescan
1008	(3F0)	ADDRESS	4	SX@PSTWS	"V(PSTWS)" Device WS= postscan
1012	(3F4)	ADDRESS	4	SX@PSTTRCDV	"V(PSTTRCDV)" Device TRACE= postscan
1016	(3F8)	ADDRESS	4	SX@PREDVDRN	"V(PREDVDRN)" General prescan to test device status
1020	(3FC)	ADDRESS	4	SX@PRETRCDV	"V(PRETRCDV)" General prescan to verify SYSTEM authority from remote device
1024	(400)	ADDRESS	4	SX@PREDRRC	"V(PREDRRC)" General ROUTECDE= prescan
1028	(404)	ADDRESS	4	SX@PREFRRC	"V(PREFRRC)" General ROUTECDE= prescan
1032	(408)	ADDRESS	4	SX@PREMULRC	"V(PREMULRC)" Multiple route code prescan
1036	(40C)	ADDRESS	4	SX@PRERPRPU	"V(PRERPRPU)" Rn.PRn/Rn.PUn LRECL= presc
1040	(410)	ADDRESS	4	SX@PSTRPRPU	"V(PSTRPRPU)" Rn.PRn/Rn.PUn LRECL= postsc
1044	(414)	ADDRESS	4		Reserved for future use
1048	(418)	ADDRESS	4		Reserved for future use
1052	(41C)	ADDRESS	4		Reserved for future use
1056	(420)	ADDRESS	4		Reserved for future use
1060	(424)	ADDRESS	4		Reserved for future use
1064	(428)	ADDRESS	4		Reserved for future use
1068	(42C)	ADDRESS	4		Reserved for future use

Comment

Module HASPSXNJ exit routines

End of Comment

1072	(430)	ADDRESS	4	SX@PREAPPL	"V(PREAPPL)" APPL prescan
1076	(434)	ADDRESS	4	SX@PSTAPPL	"V(PSTAPPL)" APPL postscan
1080	(438)	ADDRESS	4	SX@PRELDED	"V(PRELDED)" APPL/NODE LINE= prescan
1084	(43C)	ADDRESS	4	SX@PSTLDED	"V(PSTLDED)" APPL/NODE LINE= postscan
1088	(440)	ADDRESS	4	SX@PREAPNOD	"V(PREAPNOD)" APPL NODE= prescan
1092	(444)	ADDRESS	4	SX@PRECONCT	"V(PRECONCT)" CONNECT prescan
1096	(448)	ADDRESS	4	SX@PSTCONCT	"V(PSTCONCT)" CONNECT postscan
1100	(44C)	ADDRESS	4	SX@PSTDCNCT	"V(PSTDCNCT)" CONNECT postscan
1104	(450)	ADDRESS	4	SX@PRECMEMB	"V(PRECMEMB)" CONNECT MEMBA/MEMBB prescan
1108	(454)	ADDRESS	4	SX@PRECNODE	"V(PRECNODE)" CONNECT NODEA/NODEB prescan
1112	(458)	ADDRESS	4	SX@PREFNODE	"V(PREFNODE)" CONNECT NODEA/NODEB prescan
1116	(45C)	ADDRESS	4	SX@PREFNPM	"V(PREFNPM)" CONNECT PATHMGR= prescan
1120	(460)	ADDRESS	4	SX@PREDNPM	"V(PREDNPM)" CONNECT PATHMGR= prescan
1124	(464)	ADDRESS	4	SX@PREDCRST	"V(PREDCRST)" CONNECT REST= prescan
1128	(468)	ADDRESS	4	SX@PSTCSTAT	"V(PSTCSTAT)" CONNECT STATUS= postscan
1132	(46C)	ADDRESS	4	SX@PREDESSEN	"V(PREDESSEN)" LINE/LOGON SESSIONS= prescan
1136	(470)	ADDRESS	4	SX@PREDNET	"V(PREDNET)" NETACCT prescan
1140	(474)	ADDRESS	4	SX@PREPIDNT	"V(PREPIDNT)" NETACCT prescan
1144	(478)	ADDRESS	4	SX@PSTNETAC	"V(PSTNETAC)" NETACCT postscan
1148	(47C)	ADDRESS	4	SX@PSTNRT	"V(PSTNRT)" NJEDEF postscan
1152	(480)	ADDRESS	4	SX@PSTNLM	"V(PSTNLM)" NJEDEF postscan
1156	(484)	ADDRESS	4	SX@PRENODE	"V(PRENODE)" NODE prescan
1160	(488)	ADDRESS	4	SX@PSTNODE	"V(PSTNODE)" NODE postscan
1164	(48C)	ADDRESS	4	SX@PRENDPAS	"V(PRENDPAS)" NODE PASSWORD= prescan
1168	(490)	ADDRESS	4	SX@PREDSPWD	"V(PREDSPWD)" NODE PASSWORD=SEND= prescan
1172	(494)	ADDRESS	4	SX@PRENODES	"V(PRENODES)" NODE STATUS= prescan
1176	(498)	ADDRESS	4	SX@PREPVIA	"V(PREPVIA)" PATH prescan
1180	(49C)	ADDRESS	4	SX@PREPPATH	"V(PREPPATH)" PATH prescan
1184	(4A0)	ADDRESS	4	SX@PREPSTAT	"V(PREPSTAT)" PATH STATUS= prescan
1188	(4A4)	ADDRESS	4	SX@PREDPSPWD	"V(PREDPSWD)" General PASSWORD= prescan
1192	(4A8)	ADDRESS	4	SX@PREEVENT	"V(PREVENT)" General prescan to convert STCK format times
1196	(4AC)	ADDRESS	4	SX@PREFPATH	"V(PREFPATH)" General prescan to force full path analysis
1200	(4B0)	ADDRESS	4		Reserved for future use

\$SXADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1204	(4B4)	ADDRESS	4		Reserved for future use
1208	(4B8)	ADDRESS	4		Reserved for future use
1212	(4BC)	ADDRESS	4		Reserved for future use
1216	(4C0)	ADDRESS	4		Reserved for future use
1220	(4C4)	ADDRESS	4		Reserved for future use
1224	(4C8)	ADDRESS	4		Reserved for future use
1228	(4CC)	ADDRESS	4		Reserved for future use
1232	(4D0)	ADDRESS	4		Reserved for future use
1236	(4D4)	ADDRESS	4		Reserved for future use

Comment

Module HASPSXOT exit routines

End of Comment

1240	(4D8)	ADDRESS	4	SX@PREJOE	"V(PREJOE)" OUTPUT prescan
1244	(4DC)	ADDRESS	4	SX@CLNUPJOE	"V(CLNUPJOE)" OUTPUT cleanup routine
1248	(4E0)	ADDRESS	4	SX@PSTJODSP	"V(PSTJODSP)" OUTPUT postscan
1252	(4E4)	ADDRESS	4	SX@PREFOCLS	"V(PREFOCLS)" OUTPUT CLASS prescan
1256	(4E8)	ADDRESS	4	SX@PREFOAGE	"V(PREFOAGE)" OUTPUT DAYS=/HOURS= prescan
1260	(4EC)	ADDRESS	4	SX@PREHLDRD	"V(PREHLDRD)" OUTPUT HOLDRC= prescan
1264	(4F0)	ADDRESS	4	SX@PREOTGRP	"V(PREOTGRP)" OUTPUT OUTGRP= prescan
1268	(4F4)	ADDRESS	4	SX@PREFOUTG	"V(PREFOUTG)" OUTPUT OUTGRP= prescan
1272	(4F8)	ADDRESS	4	SX@PREODRDY	"V(PREODRDY)" OUTPUT READY/HELD prescan
1276	(4FC)	ADDRESS	4	SX@PREJRCPG	"V(PREJRCPG)" OUTPUT RECORDS/PAGES prescan
1280	(500)	ADDRESS	4	SX@PREJDEST	"V(PREJDEST)" OUTPUT ROUTECDE= prescan
1284	(504)	ADDRESS	4	SX@PREJOERC	"V(PREJOERC)" OUTPUT ROUTECDE= prescan
1288	(508)	ADDRESS	4	SX@PREJOFRC	"V(PREJOFRC)" OUTPUT ROUTECDE= prescan
1292	(50C)	ADDRESS	4	SX@PREJOSTA	"V(PREJOSTA)" OUTPUT STATUS= prescan
1296	(510)	ADDRESS	4	SX@PREJCKJO	"V(PREJCKJO)" OUTPUT keyword= prescan for char-JOE fields
1300	(514)	ADDRESS	4	SX@PREJDMND	"V(PREJDMND)" OUTPUT keyword= prescan for demand select
1304	(518)	ADDRESS	4	SX@PREJQOFS	"V(PREJQOFS)" JOB OFFS= prescan
1308	(51C)	ADDRESS	4	SX@PREJOOFS	"V(PREJOOFS)" OUTPUT OFFS= prescan
1312	(520)	ADDRESS	4	SX@PREJOFFS	"V(PREJOFFS)" JOB/OUTPUT OFFS= prescan
1316	(524)	ADDRESS	4	SX@PREFOFFS	"V(PREFOFFS)" JOB/OUTPUT OFFS= prescan
1320	(528)	ADDRESS	4	SX@PSTSOFFS	"V(PSTSOFFS)" JOB/OUTPUT OFFS= postscan
1324	(52C)	ADDRESS	4	SX@PRE4STAR	"V(PRE4STAR)" OUTPUT keyword= prescan for ***** value
1328	(530)	ADDRESS	4	SX@PSTSTMOD	"V(PSTSTMOD)" OUTPUT keyword= postscan JOEFLAGT bits (TMOD)
1332	(534)	ADDRESS	4	SX@PRELORDY	"V(PRELORDY)" \$LJ READY/HELD prescan
1336	(538)	ADDRESS	4	SX@PREJLOCK	"V(PREJLOCK)" OUTPUT prescan for job lock
1340	(53C)	ADDRESS	4		Reserved for future use
1344	(540)	ADDRESS	4		Reserved for future use
1348	(544)	ADDRESS	4		Reserved for future use
1352	(548)	ADDRESS	4		Reserved for future use
1356	(54C)	ADDRESS	4		Reserved for future use
1360	(550)	ADDRESS	4		Reserved for future use
1364	(554)	ADDRESS	4		Reserved for future use
1368	(558)	ADDRESS	4		Reserved for future use
1372	(55C)	ADDRESS	4		Reserved for future use
1376	(560)	ADDRESS	4		Reserved for future use

Comment

Module HASPSXJB exit routines

End of Comment

1380	(564)	ADDRESS	4	SX@PREJQE	"V(PREJQE)" JOB prescan
1384	(568)	ADDRESS	4	SX@PREJST	"V(PREJST)" JOB prescan
1388	(56C)	ADDRESS	4	SX@PSTCFVQE	"V(PSTCFVQE)" JOB postscan
1392	(570)	ADDRESS	4	SX@PREJBDUP	"V(PREJBDUP)" JOB prescan
1396	(574)	ADDRESS	4	SX@PREJQRDS	"V(PREJQRDS)" JOB prescan

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1400	(578)	ADDRESS	4	SX@PSTJQDSP	"V(PSTJQDSP)" JOB postscan
1404	(57C)	ADDRESS	4	SX@PREJABS	"V(PREJABS)" JOB CC=ABEND prescan
1408	(580)	ADDRESS	4	SX@PREJABU	"V(PREJABU)" JOB CC=ABEND prescan
1412	(584)	ADDRESS	4	SX@PSTJSCLS	"V(PSTJSCLS)" JOB CLASS= postscan
1416	(588)	ADDRESS	4	SX@PREJCLAS	"V(PREJCLAS)" JOB CLASS= prescan
1420	(58C)	ADDRESS	4	SX@PREDRNE	"V(PREDRNE)" JOB CMDAUTH= prescan
1424	(590)	ADDRESS	4	SX@PREDELAY	"V(PREDELAY)" JOB DELAY prescan
1428	(594)	ADDRESS	4	SX@PREJINIT	"V(PREJINIT)" JOB INITASID= prescan
1432	(598)	ADDRESS	4	SX@PREJQPRI	"V(PREJQPRI)" JOB PRIORITY= prescan
1436	(59C)	ADDRESS	4	SX@PREJPRIF	"V(PREJPRIF)" JOB PRIORITY= prescan
1440	(5A0)	ADDRESS	4	SX@PSTJQPRI	"V(PSTJQPRI)" JOB PRIORITY= postscan
1444	(5A4)	ADDRESS	4	SX@PSTPJQUE	"V(PSTPJQUE)" JOB Q= postscan routine
1448	(5A8)	ADDRESS	4	SX@PSTJEXFL	"V(PSTJEXFL)" JOB prescan for DUMP, PURGE, ARMRESTART, PROTECTED, etc.
1452	(5AC)	ADDRESS	4	SX@PREJQEXQ	"V(PREJQEXQ)" JOB prescan for busy in XEQ
1456	(5B0)	ADDRESS	4	SX@PREJTGP	"V(PREJTGP)" JOB SPOOL=PERCENT= prescan
1460	(5B4)	ADDRESS	4	SX@PREFTGP	"V(PREFTGP)" JOB SPOOL=PERCENT= prescan
1464	(5B8)	ADDRESS	4	SX@PREJTGN	"V(PREJTGN)" JOB SPOOL=TGS= prescan
1468	(5BC)	ADDRESS	4	SX@PREDJVOL	"V(PREDJVOL)" JOB SPOOL=VOLUMES= prescan
1472	(5C0)	ADDRESS	4	SX@PREFJVOL	"V(PREFJVOL)" JOB SPOOL=VOLUMES= prescan
1476	(5C4)	ADDRESS	4	SX@PSTJSRVC	"V(PSTJSRVC)" JOB SRVCLASS= postscan
1480	(5C8)	ADDRESS	4	SX@PREJSTAT	"V(PREJSTAT)" JOB STATUS= prescan
1484	(5CC)	ADDRESS	4	SX@PREDJSAF	"V(PREDJSAF)" JOB SYSAFF prescan
1488	(5D0)	ADDRESS	4	SX@PREFJSAF	"V(PREFJSAF)" JOB SYSAFF prescan
1492	(5D4)	ADDRESS	4	SX@PRESJSAF	"V(PRESJSAF)" JOB SYSAFF prescan
1496	(5D8)	ADDRESS	4	SX@PSTSJSAF	"V(PSTSJSAF)" JOB SYSAFF postscan
1500	(5DC)	ADDRESS	4	SX@CLNUPJQE	"V(CLNUPJQE)" JOB JQE cleanup routine
1504	(5E0)	ADDRESS	4	SX@PSTJSCHE	"V(PSTJSCHE)" JOB SCHENV= postscan
1508	(5E4)	ADDRESS	4	SX@PSTJQASC	"V(PSTJQASC)" JOB SCHENV= postscan
1512	(5E8)	ADDRESS	4		Reserved for future use
1516	(5EC)	ADDRESS	4		Reserved for future use
1520	(5F0)	ADDRESS	4		Reserved for future use
1524	(5F4)	ADDRESS	4		Reserved for future use
1528	(5F8)	ADDRESS	4		Reserved for future use
1532	(5FC)	ADDRESS	4		Reserved for future use
1536	(600)	ADDRESS	4		Reserved for future use
1540	(604)	ADDRESS	4		Reserved for future use

Comment

Module HASPCSV exit routines

End of Comment

1544	(608)	ADDRESS	4	SX@PRELOAD	"V(PRELOAD)" LOADMOD prescan
1548	(60C)	ADDRESS	4	SX@PSTLOAD	"V(PSTLOAD)" LOADMOD postscan
1552	(610)	ADDRESS	4	SX@PREDMOD	"V(PREDMOD)" MODULE prescan
1556	(614)	ADDRESS	4	SX@PREDMODX	"V(PREDMODX)" MODULE EXITPTS= prescan
1560	(618)	ADDRESS	4	SX@PRELOADR	"V(PRELOADR)" MODULE/LOADMOD ROUTINES= prescan
1564	(61C)	ADDRESS	4	SX@PRELOADT	"V(PRELOADT)" MODULE/LOADMOD TABLES= prescan
1568	(620)	ADDRESS	4	SX@PRELOADF	"V(PRELOADF)" MODULE ROUTINES= prescan
1572	(624)	ADDRESS	4	SX@PREPTF	"V(PREPTF)" MODULE LASTPTF= prescan
1576	(628)	ADDRESS	4		Reserved for future use
1580	(62C)	ADDRESS	4		Reserved for future use
1584	(630)	ADDRESS	4		Reserved for future use
1588	(634)	ADDRESS	4		Reserved for future use
1592	(638)	ADDRESS	4		Reserved for future use
1596	(63C)	ADDRESS	4		Reserved for future use
1600	(640)	ADDRESS	4		Reserved for future use
1604	(644)	ADDRESS	4		Reserved for future use
1608	(648)	ADDRESS	4		Reserved for future use
1612	(64C)	ADDRESS	4		Reserved for future use

\$SXADDR Cross Reference

Offsets		Type/Value	Len	Name (Dim)	Description
Dec	Hex				
Comment					
Module HASPMSG exit routines					
End of Comment					
1616	(650)	ADDRESS	4	SX@PRE496KY	"V(PRE496KY)" \$HASP496 KEYWORD prescan
1620	(654)	ADDRESS	4	SX@PRE536	"V(PRE536)" \$HASP536 prescan
1624	(658)	ADDRESS	4	SX@PRE542	"V(PRE542)" \$HASP542 prescan
1628	(65C)	ADDRESS	4	SX@PREACTM	"V(PREACTM)" General active member list display prescan
1632	(660)	ADDRESS	4	SX@PREMDATE	"V(PREMDATE)" General long date display prescan
1636	(664)	ADDRESS	4	SX@PREMCKPT	"V(PREMCKPT)" General routine to format checkpoint data set or structure name
1640	(668)	ADDRESS	4		Reserved for future use
1644	(66C)	ADDRESS	4		Reserved for future use
1648	(670)	ADDRESS	4		Reserved for future use
1652	(674)	ADDRESS	4		Reserved for future use
1656	(678)	ADDRESS	4		Reserved for future use
1660	(67C)	ADDRESS	4		Reserved for future use
1664	(680)	ADDRESS	4		Reserved for future use
1668	(684)	ADDRESS	4		Reserved for future use
1672	(688)	ADDRESS	4		Reserved for future use
1676	(68C)	ADDRESS	4		Reserved for future use
1676	(68C)	X'90	0	SXADDRLN	"*-SXADDR" Length of the SXADDR table

\$SXADDR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SX@CLNUPCAT	250		SX@PREDEMEM	124	
SX@CLNUPJOE	4DC		SX@PREDESI	74	
SX@CLNUPJQE	5DC		SX@PREDEST	70	
SX@CLNUPPAD	2E8		SX@PREDEVDR	338	
SX@CLNUPPRW	A0		SX@PREDEXIT	80	
SX@CVLDRAIN	1C8		SX@PREDFLNO	2F4	
SX@PFSQFREE	328		SX@PREDFSS	30C	
SX@PFSQUERY	324		SX@PREDJSAF	5CC	
SX@PREACMEM	290		SX@PREDJVOL	5BC	
SX@PREACTM	65C		SX@PREDMOD	610	
SX@PREACTSZ	264		SX@PREDMODX	614	
SX@PREAPNOD	440		SX@PREDNEGZ	230	
SX@PREAPPL	430		SX@PREDNET	470	
SX@PREAUTH	BC		SX@PREDNOCB	234	
SX@PRECAT	244		SX@PREDNPM	460	
SX@PRECATTS	248		SX@PREDPRMD	3AC	
SX@PRECKLEV	238		SX@PREDPSPWD	4A4	
SX@PRECKPT	1C		SX@PREDPZPT	378	
SX@PRECKPTN	20		SX@PREdqST	10C	
SX@PRECKPTT	128		SX@PREDRBY	118	
SX@PRECMDR	1B4		SX@PREDRc	3C4	
SX@PRECMEMB	450		SX@PREDRNE	58C	
SX@PRECNODE	454		SX@PREDRNG	3BC	
SX@PRECONCT	444		SX@PREDRRC	400	
SX@PRECRSYS	214		SX@PREDRSAF	3D8	
SX@PRECSTCK	240		SX@PREDSAF	2D4	
SX@PRECSTKL	23C		SX@PREDSAFL	258	
SX@PREDAUTH	B8		SX@PREDSBEX	84	
SX@PREDBADT	8		SX@PREDSesn	46C	
SX@PREDCCHAR	58		SX@PREDSLCT	360	
SX@PREDCOMP	50		SX@PREDSPWD	490	
SX@PREDCRST	464		SX@PREDSsAF	1CC	
SX@PREDDVJB	3D0		SX@PREDSsI	1F8	
SX@PREDDVRC	3D4		SX@PREDSSTAT	3CC	
SX@PREDELAY	590		SX@PREDUSEC	1C0	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SX@PREDUSEP	1C4		SX@PRELOADR	618	
SX@PREVDVRN	3F8		SX@PRELOADT	61C	
SX@PREDWS	3EC		SX@PRELORDY	534	
SX@PREEVDUR	170		SX@PRELSFRM	314	
SX@PREEVENT	4A8		SX@PREMCKPT	664	
SX@PREFJSAF	5D0		SX@PREMDATE	660	
SX@PREFJVOL	5C0		SX@PREMDEFD	110	
SX@PREFNODE	458		SX@PREMESYS	FC	
SX@PREFNPM	45C		SX@PREMSNM	12C	
SX@PREFOAGE	4E8		SX@PREMULFM	39C	
SX@PREFOCLS	4E4		SX@PREMULRC	408	
SX@PREFOFFS	524		SX@PRENDPAS	48C	
SX@PREFOUTG	4F4		SX@PRENIPRT	32C	
SX@PREFPATH	4AC		SX@PRENODE	484	
SX@PREFPRMD	3B0		SX@PRENODES	494	
SX@PREFRC	3C8		SX@PRENULL	218	
SX@PREFRRC	404		SX@PREODRDY	4F8	
SX@PREFSPAF	1D0		SX@PREOGDJC	CC	
SX@PREFSSDF	8C		SX@PREOGDOC	148	
SX@PREFTGP	5B4		SX@PREOGDOS	140	
SX@PREHLDRC	4EC		SX@PREOGDSR	2C4	
SX@PREHOTS	22C		SX@PREOGDST	2CC	
SX@PREINCL	94		SX@PREOPACT	33C	
SX@PREINECL	B4		SX@PREOTGRP	4F0	
SX@PREINIT	A4		SX@PREPCEDJ	164	
SX@PREISTC	260		SX@PREPCEDN	15C	
SX@PREJABS	57C		SX@PREPCEDT	158	
SX@PREJABU	580		SX@PREPCEDW	160	
SX@PREJBDUP	570		SX@PREPCETB	150	
SX@PREJCKJO	510		SX@PREPDRPT	194	
SX@PREJCLAS	588		SX@PREPDSRV	198	
SX@PREJDEST	500		SX@PREPIDNT	474	
SX@PREJDMND	514		SX@PREPIFNL	330	
SX@PREJESLD	E0		SX@PREPITCL	B0	
SX@PREJESLS	DC		SX@PREPITRS	254	
SX@PREJINIT	594		SX@PREPMODE	318	
SX@PREJLOCK	538		SX@PREPPATH	49C	
SX@PREJOE	4D8		SX@PREPRFDT	1A4	
SX@PREJOERC	504		SX@PREPRFFL	17C	
SX@PREJOFFS	520		SX@PREPRFNL	178	
SX@PREJOFRC	508		SX@PREPRFPA	18C	
SX@PREJOOFS	51C		SX@PREPRFPC	174	
SX@PREJOSTA	50C		SX@PREPRFPS	180	
SX@PREJPRIF	59C		SX@PREPRFQA	190	
SX@PREJQE	564		SX@PREPRFRS	168	
SX@PREJQEXQ	5AC		SX@PREPRFSU	16C	
SX@PREJQOFS	518		SX@PREPRFWA	188	
SX@PREJQPRI	598		SX@PREPRFWT	184	
SX@PREJQRDS	574		SX@PREPRFZR	1A0	
SX@PREJRBLD	F0		SX@PREPROCL	2E0	
SX@PREJRCPG	4FC		SX@PREPRT	2EC	
SX@PREJST	568		SX@PREPSJB	AC	
SX@PREJSTAT	5C8		SX@PREPSTAT	4A0	
SX@PREJTGN	5B8		SX@PREPTF	624	
SX@PREJTGP	5B0		SX@PREPVIA	498	
SX@PRELDED	438		SX@PREQSUSE	228	
SX@PRELDEV	29C		SX@PRERDEST	3B4	
SX@PRELDFLT	2B0		SX@PRERDEV	354	
SX@PRELDVL	298		SX@PRERDSTM	1AC	
SX@PRELIMIT	220		SX@PRERDVAU	358	
SX@PRELINE	2A4		SX@PREREGN	D0	
SX@PRELINST	2B8		SX@PRERHELD	104	
SX@PRELNERS	2B4		SX@PRERMT	37C	
SX@PRELOAD	608		SX@PRERMTP	38C	
SX@PRELOADF	620		SX@PRERMTRC	370	

\$SXADDR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SX@PRERMTSH	390		SX@PSTINCDS	9C	
SX@PRERMTST	398		SX@PSTINCL	98	
SX@PRERNG	3B8		SX@PSTINIT	A8	
SX@PRERPRPU	40C		SX@PSTIRTRC	294	
SX@PRERPZPT	374		SX@PSTJBNUM	EC	
SX@PRESDFRE	1EC		SX@PSTJEXFL	5A8	
SX@PRESDPCT	1F0		SX@PSTJOBDF	E8	
SX@PRESJSAF	5D4		SX@PSTJOBNM	3A4	
SX@PRESPOOL	1B8		SX@PSTJODSP	4E0	
SX@PREDFID	20C		SX@PSTJONUM	134	
SX@PRETRCDV	3FC		SX@PSTJQASC	5E4	
SX@PRETRCID	210		SX@PSTJQDSP	578	
SX@PREUNIT	3E4		SX@PSTJQPRI	5A0	
SX@PREVOLT	3C		SX@PSTJQPST	C4	
SX@PREWSC	19C		SX@PSTJ RNG	F4	
SX@PREZAPJB	270		SX@PSTJSCHE	5E0	
SX@PRE4STAR	52C		SX@PSTJSCLS	584	
SX@PRE496KY	650		SX@PSTJSRVC	5C4	
SX@PRE536	654		SX@PSTLDED	43C	
SX@PRE542	658		SX@PSTLGNA	2C0	
SX@PRPRESET	334		SX@PSTLIMIT	224	
SX@PSTACTIV	25C		SX@PSTLIM1	21C	
SX@PSTADDR	10		SX@PSTLINE	2A8	
SX@PSTAPPL	434		SX@PSTLINEA	2AC	
SX@PSTBADTR	C		SX@PSTLINST	2BC	
SX@PSTBRNUM	4C		SX@PSTLOAD	60C	
SX@PSTBUF	14		SX@PSTLSPIN	204	
SX@PSTCAT	D8		SX@PSTMDRC	2C8	
SX@PSTCATSC	268		SX@PSTMDSAF	2D0	
SX@PSTCF	38		SX@PSTMESYS	100	
SX@PSTCFVQE	56C		SX@PSTMIND	11C	
SX@PSTCHARS	18		SX@PSTNETAC	478	
SX@PSTCKLCK	44		SX@PSTNLM	480	
SX@PSTCKMOD	40		SX@PSTNODE	488	
SX@PSTCKPSP	48		SX@PSTNOTAB	208	
SX@PSTCKPT	24		SX@PSTNRT	47C	
SX@PSTCKPTN	28		SX@PSTOARCH	2DC	
SX@PSTCKVOL	34		SX@PSTOGDJC	C8	
SX@PSTCKVRS	2C		SX@PSTOGDOC	14C	
SX@PSTCMB	5C		SX@PSTOGDOS	144	
SX@PSTCNCHR	64		SX@PSTOUTDF	130	
SX@PSTCOMP	54		SX@PSTPCETB	154	
SX@PSTCONCT	448		SX@PSTPJQUE	5A4	
SX@PSTCSCHE	26C		SX@PSTPRDFL	2F8	
SX@PSTCSTAT	468		SX@PSTPREFIX	60	
SX@PSTDCNCT	44C		SX@PSTPRFCB	300	
SX@PSTDDFCB	2FC		SX@PSTPRFLS	308	
SX@PSTDEBUG	6C		SX@PSTPRMD	3A8	
SX@PSTDESI	78		SX@PSTPROCL	2E4	
SX@PSTDFCB	304		SX@PSTPRT	2F0	
SX@PSTDSN	30		SX@PSTPRTY	F8	
SX@PSTDUCS	320		SX@PSTPRUCS	31C	
SX@PSTDUPJB	E4		SX@PSTPRYO	138	
SX@PSTDWRKQ	1D4		SX@PSTPUN	350	
SX@PSTEMEM	120		SX@PSTQHPST	C0	
SX@PSTEST	7C		SX@PSTRC	3C0	
SX@PSTEXRTN	88		SX@PSTRDEV	36C	
SX@PSTFEN	1E4		SX@PSTRDSTM	1B0	
SX@PSTFENO	1E8		SX@PSTRDVCM	364	
SX@PSTFNSP	344		SX@PSTRDVCO	368	
SX@PSTFSSDF	90		SX@PSTRECV	1A8	
SX@PSTFSSET	348		SX@PSTREGN	D4	
SX@PSTFSUPD	340		SX@PSTRMT	380	
SX@PSTFSYNC	34C		SX@PSTRMTA	384	
SX@PSTHOLD	108		SX@PSTRMTLN	388	

Name	Hex Offset	Hex Value
SX@PSTRMTSH	394	
SX@PSTRPRPU	410	
SX@PSTSAF	2D8	
SX@PSTSCOPE	68	
SX@PSTSEGLM	13C	
SX@PSTSELCT	35C	
SX@PSTSFSS	310	
SX@PSTSICE	200	
SX@PSTSJSAF	5D8	
SX@PSTSNAME	114	
SX@PSTSOFFS	528	
SX@PSTSPDVL	1F4	
SX@PSTSPL	1E0	
SX@PSTSPLDF	1DC	
SX@PSTSPPOOL	1BC	
SX@PSTSPSAF	1D8	
SX@PSTSRSAF	3DC	
SX@PSTSTMOD	530	
SX@PSTTP	1FC	
SX@PSTTRANS	2A0	
SX@PSTTRCDV	3F4	
SX@PSTUNIT	3E0	
SX@PSTVJBID	278	
SX@PSTVOL	3E8	
SX@PSTWFORM	3A0	
SX@PSTWS	3F0	
SX@PSTZAPJB	274	
SXADDRID	0	E2E7C1C4
SXADDRLN	68C	90
SXADDRV	4	
SXADDRVN	4	1

\$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
4	(4)	BITSTRING	0	SYMVERSN	"X'02" Control block version EQU
5	(5)	BITSTRING	1	SYMFLAG1	SYMREC control flags
5	(5)	BITSTRING	0	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	ASR1071L	LEVEL AND VERSION OF SYMREC MACRO
113	(71)	BITSTRING	3	ASR1071O	RESERVED
116	(74)	ADDRESS	4	ASR1071S	ADDRESS OF SYMPTOM RECORD
120	(78)	BITSTRING	8	ASR1071R	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'70	0	SYMLEN	"*-SYM" Length of storage

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

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

Key range User category and data type

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

End of Comment

		....		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	SYKNNTQ	"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	SYKMTT	"X'010D" MTT 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

\$\$SYMCB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ASR1071L	70	1	SYKNJH	870	A
ASR1071O	71	0	SYKNMR	870	8
ASR1071R	78	0	SYKNNTQ	870	4
ASR1071S	74		SYKSIGA	870	F
SYKBERT	870	13	SYKSIGE	870	E
SYKBRTAD	870	14	SYKSJSP	870	6
SYKBUFF	870		SYKSMF	870	B
SYKF256	870	10	SYKSMSU	870	7
SYKICE	870	11	SYKSWBM	870	5
SYKICEAD	870	12	SYKWTOPL	870	9
SYKJCT	870	2	SYKX15	870	C
SYKJQE	870	1	SYMBYTE1	64	
SYKMTT	870	D	SYMBYTE2	65	
SYKNCC	870	3	SYMCBBAS	30	

\$SYMCB Cross Reference

Name	Hex Offset	Hex Value
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	
SYMDWORK	70	
SYMFLAG1	5	
SYMGWORK	70	
SYMHEXP	70	
SYMHEXPI	70	
SYMHEXPL	78	
SYMHEXPO	74	
SYMID	0	E2E8D440
SYMLEN	870	70
SYMLEN3	88	D0
SYMLEN4	88	D4
SYMLEN5	88	D8
SYMLEVEL	4	
SYMMAP	70	
SYMOFF3	88	D2
SYMOFF4	88	D6
SYMOFF5	88	DA
SYMRECL	70	
SYMSTRTP	6C	
SYMSYME	7F4	
SYMSYMR	88	
SYMVERSN	4	2
SYMWORK2	78	
SYM1NMSG	5	80

\$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
 S35C \$DM message
 Offset: S35DID-S35DSECT
 Length: L'S35DID

Storage Attributes: Subpool: 231 or 255
 Key: 1
 Residency: Virtual and real storage are anywhere (above or below 16M) in common (SP 231) or private (SP 255) storage.

Size: See S35DL

Created by: HASPCOMM during \$DM processing
 HASCSIRQ during REPLY command processing (SSICMD)
 HASCSIRQ during WTO exit processing (SSIWTA)

Pointed to by: CCECLOC field of the CCE data area
 S35DNEXT field of the S35D data area
 SJBLOGQ field of the SJB data area
 SJBLOGGO field of the SJB data area
 TREWRAWA field of the TRE data area

Serialization: Compare and swap logic is used to chain the work area onto SJBLOGQ.

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
 \$DM processing in HASPCOMM for operator messages
 These messages are placed on the SJBLOGQ for the address space to which they are associated.

\$S35D Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	S35DSECT	
0	(0)	ADDRESS	4	S35DCCE	Address of CCE (This word must be first so that \$GETCEL can be used)
4	(4)	CHARACTER	4	S35DID	Eyecatcher (see above)
8	(8)	SIGNED	4	S35DNEXT	POINTER TO NEXT 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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
42	(2A)	CHARACTER	8	S35DJOBN	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
168	(A8)	BITSTRING	0	S35DSPLT	"B'10000000" Message is to be split
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 OYYYYDDD
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	
S35DCCE	0	
S35DDATE	B4	
S35DFILL	21	1C
S35DFLG1	A8	
S35DHID	21	
S35DID	4	E2F3F5A7
S35DJOB	17	
S35DJOBN	2A	
S35DL	C0	C0
S35DMAX	B8	84
S35DMCON	10	
S35DMSG	E	
S35DMSG1	C	
S35DMS2L	A2	
S35DMS2P	A4	
S35DNEXT	8	
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

\$TAB Programming Interface Information

Programming Interface Information

\$TAB

End of Programming Interface Information

\$TAB Heading Information

Common Name: JES2 Track Allocation Block
Macro ID: \$TAB
DSECT Name: TAB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Offset: N/A
Subpool and Key: Subpool 0 and key 1
Size: 12 bytes per entry
Created by: HASPINIT
Pointed to by: None
Serialization: Serialized under the JES2 TCB
Function: JES2 Track Allocation Block mapping.

\$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 CDS)
4	(4)	BITSTRING	1	TABFLAG	FLAG BYTE
		....		TABMINOR	"B'00000000" NON-TRACK-CELLED -- Pddb LEVEL
4	(4)	BITSTRING	0	TABMAJOR	"B'01000000" TRACK-CELLED -- Pddb LEVEL
4	(4)	BITSTRING	0	TABMASTR	"B'11000000" NON-TRACK-CELLED -- JOB LEVEL
5	(5)	BITSTRING	1	TABSPN	SUB-PERMUTATION NUMBER
6	(6)	BITSTRING	1	TABMAXR	MAX RECD NBR ON TRACK
7	(7)	BITSTRING	1	TABUFCNT	NBR BUFFERS LEFT IN CELL
7	(7)	X'4 00004'	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
TABAIOT	8	
TABFLAG	4	
TABLNTH	8	C
TABMAJOR	4	40
TABMASTR	4	C0
TABMAXR	6	
TABMINOR	4	
TABMTTR	0	
TABRCPBA	7	4 00004
TABSPN	5	
TABUFCNT	7	

\$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
216	(D8)	BITSTRING	64	TEXWORK	Work area
280	(118)	DBL WORD	8	(0)	Force double-word alignment
280	(118)	X'40 '	0	TEXPCEWS	**"-PCEWORK" Length of work area

\$TEXWORK Map

\$TGB Heading Information

Common Name:	Track Group Block
Macro ID:	\$TGB
DSECT Name:	TGB
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	None if BLOB TGBS \$TGB IF BADTRACK TGB
Storage Attributes:	Subpool: 241 Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M) in common storage (CSA).
Size:	See TGBSIZE for BADTRACK TGBs. See TGBBSIZE for BLOB TGBs.
Created by:	TQUEBTG in the event of a SPOOL I/O error in the user's address space or in an FSS address space or in a JES2 subtask. \$IOERRTN in the event of a SPOOL I/O error in the JES2 main task. JES2 initialization for BADTRACK initialization statement processing.
Pointed to by:	CCTIOERR field of the \$HCCT data area TGBNEXT field of the \$TGB data area if on the CCTIOERR queue CCTTGBF field of the \$HCCT data area for TGBs in the BLOB CCTTGBL field of the \$HCCT data area for TGBs in the BLOB TGBs in the BLOB are contiguous.
Serialization:	Compare and swap is used to queue the TGBs on the CCTIOERR chain. Compare double and swap is used to change the contents of a TGB in the BLOB.
Function:	There is a pool of track group blocks (TGBs) of available space called a BLOB. A track group block represents one track group. If available, there are SPOOLDEF TGBPERVL= * the number of spool volumes started TGBs in the BLOB, up to a maximum of 255. 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.
	TGBs are also used for bad track group (BADTRACK) processing. TGBNEXT is used to chain the TGBs from \$SPOOLQ for HASPSPOL. TGBJQE is not applicable for bad track groups.
	TGBs 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 TGB 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)	B:Used to compare and swap next two words
0	(0)	ADDRESS	4	TGBMTR	bB:Allocated MTT
4	(4)	ADDRESS	4	TGBJQE	B:Offset to JQE for JQESUMSK
4	(4)	X' '	0	TGBAVAIL	"0" TGB available
4	(4)	X'FF '	0	TGBASYS	"-1" TGB allocated
4	(4)	X'FE '	0	TGBBKUP	"-2" TGB allocated state not yet recorded on CKPT
4	(4)	X'FD '	0	TGBASIG	"-3" TGB allocated state not yet recorded on SPOOL
8	(8)	DBL WORD	8	TGBENTRYB (0)	B:Used to ref next 2 words
8	(8)	ADDRESS	4	TGBMTRB	B:Backup of Allocated MTR
12	(C)	ADDRESS	4	TGBJQEB	B:Backup of Offset to JQE
16	(10)	BITSTRING	16	TGBTOKEN	B:TCB Token of task in signature record process
32	(20)	BITSTRING	8	TGBASTKN	B:Address space token of AS in signature rcd process
32	(20)	X'10 00018'	0	TGBTKNS	"TGBTOKEN,*-TGBTOKEN" Represent all tokens
32	(20)	X'28 '	0	TGBBSIZE	"*-TGB" TGB DSECT LGTH FOR BLOB ENTRIES
40	(28)	ADDRESS	4	TGBNEXT	b:Address of next TGB on the Bad Track queue
44	(2C)	BITSTRING	1	TGBFLAG1	b:Flags
44	(2C)	BITSTRING	0	TGB1CC3	"B'10000000" b:IOS has discovered that the extent has no paths
44	(2C)	BITSTRING	0	TGB1MQER	"B'01000000" b:JES2 main task queued this \$TGB
44	(2C)	BITSTRING	0	TGB1UQER	"B'00100000" b>User environment task queued this \$TGB
45	(2D)	BITSTRING	1		b: Reserved for future use
46	(2E)	SIGNED	2	TGBASID	b:ASID of failing task
48	(30)	BITSTRING	4		b: Reserved for future use
52	(34)	CHARACTER	4	TGBID	b:Eye catcher
52	(34)	X'38 '	0	TGBSIZE	"*-TGB" TGB DSECT LENGTH FOR BAD TRACK

\$TGB Cross Reference

Name	Hex Offset	Hex Value	
TGBASID	2E		
TGBASIG	4	FD	
TGBASTKN	20		
TGBASYS	4	FF	
TGBAVAIL	4		
TGBBKUP	4	FE	
TGBBSIZE	20	28	
TGBENTRY	0		
TGBENTRYB	8		
TGBFLAG1	2C		
TGBID	34		
TGBJQE	4		
TGBJQEB	C		
TGBMTR	0		
TGBMTRB	8		
TGBNEXT	28		
TGBSIZE	34	38	
TGBTKNS	20	10	00018
TGBTOKEN	10		
TGB1CC3	2C	80	
TGB1MQER	2C	40	
TGB1UQER	2C	20	

\$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
216	(D8)	DBL WORD	8	(0)	Force double-word alignment
216	(D8)	X' '	0	TIMPCEWS	"*-PCEWORK" Length of work area

\$TIMWORK 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
216	(D8)	BITSTRING	1		ROOM FOR \$RDRWORK (FOR HASPRJCS)
216	(D8)	X'8 00010'	0	TLGMAP	"RDWMSG,MAPENTL" Work area for TRACE ID 20
852	(354)	ADDRESS	4	TLGJCT	ADDRESS OF JCT FOR \$TRCLOG
856	(358)	ADDRESS	4	TLGBSAVE	ADDRESS OF CURRENT RCB
860	(35C)	ADDRESS	4	TLGBUFAD	ADDRESS OF CURRENT OUTPUT BUFFER
864	(360)	ADDRESS	4	TLGIOTAD	ADDRESS OF CURRENT SPIN IOT
868	(364)	SIGNED	4	TLGWORK1	WORK AREA
872	(368)	SIGNED	4	TLGWORK2	WORK AREA
880	(370)	DBL WORD	8	TLGWORK3	WORK AREA
892	(37C)	ADDRESS	4	TLGTTP	ADDRESS OF CURRENT TRACE TABLE
896	(380)	ADDRESS	4	TLGTTESV	ADDRESS OF CURRENT TTE ENTRY
900	(384)	ADDRESS	4	TLGVFPFX	ADDRESS OF PREFIX OF CURRENT VARIABLE FORMAT FIELD
904	(388)	SIGNED	4	(0)	FULLWORD ALIGN NEXT FIELD
904	(388)	SIGNED	8	TLGMINOR (0)	RNAME--FULLWORD ALIGN, LENTH 8
904	(388)	CHARACTER	4	TLGREYE	EYECATCHER IN RNAME
908	(38C)	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					
912	(390)	SIGNED	4	TLGENQST (0)	TRUE START OF ENQ LIST
Comment					
MACRO-DATE = 95/03/03					
End of Comment					
912	(390)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
912	(390)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
916	(394)	ADDRESS	4		PREFIX - ECB ADDRESS
916	(394)	X'98	0	TLGENQPL	*** X02113
920	(398)	ADDRESS	1		PELLAST flag byte. X02113
921	(399)	ADDRESS	1		PELMILEN - RNAME length.
922	(39A)	BITSTRING	1		
Comment					
PELFLAG - flag byte 2.					
End of Comment					
923	(39B)	ADDRESS	1		PELRET - return code byte.
924	(39C)	ADDRESS	4		QNAME ADDRESS
928	(3A0)	ADDRESS	4		RNAME ADDRESS
928	(3A0)	X'90 00014'	0	TLGENQUE	"TLGENQST,*-TLGENQST" Used only in IPCS
932	(3A4)	SIGNED	4	TLGDEQST (0)	TRUE START OF DEQ LIST
Comment					
MACRO-DATE = 05/05/95					
End of Comment					
932	(3A4)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
932	(3A4)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
932	(3A4)	X'A8	0	TLGDEQPL	*** X02113
936	(3A8)	ADDRESS	1		PELLAST flag byte. X02113
937	(3A9)	ADDRESS	1		PELMILEN - RNAME length.
938	(3AA)	BITSTRING	1		
Comment					
PELFLAG - flag byte 2.					
End of Comment					
939	(3AB)	ADDRESS	1		PELRET - return code byte.
940	(3AC)	ADDRESS	4		QNAME ADDRESS
944	(3B0)	ADDRESS	4		RNAME ADDRESS
944	(3B0)	X'A4 00010'	0	TLGDEQUE	"TLGDEQST,*-TLGDEQST" Used only in IPCS
948	(3B4)	SIGNED	4	TLGRECCT	TRACE LOG DATA SET RECORD COUNT
952	(3B8)	BITSTRING	12	TLGTQE	TQE FOR TRACE TABLE TRUNCATION
964	(3C4)	SIGNED	2	TLGVFCNT	NUMBER OF VARIABLE FIELDS LEFT
966	(3C6)	BITSTRING	1	TLGSAVID	FOR SAVING RECORD TYPE ID
967	(3C7)	BITSTRING	1	TLGFLAG1	FLAGS
968	(3C8)	SIGNED	4	(0)	FULLWORK ALIGN XECB
968	(3C8)	BITSTRING	1	TLGXECB	XECB FOR EXCLUSIVE ENQ ECB
968	(3C8)	X'4	0	TLGPCEWS	**-PCEWORK" LENGTH OF PCE WORK AREA

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
TLGFLAG1					
					End of Comment
968	(3C8)	BITSTRING	0	TLG1OPEN	"B'10000000" TRACE LOG IS OPEN
968	(3C8)	BITSTRING	0	TLG1ERR	"B'01000000" ERROR PRODUCING TRACE LOG
968	(3C8)	BITSTRING	0	TLG1TRUN	"B'00100000" ID=20 TRUNCATE CURRENT LINE
968	(3C8)	BITSTRING	0	TLG1HEAD	"B'00010000" Currently producing header

\$TLGWORK Cross Reference

Name	Hex Offset	Hex Value	
TLGBSAVE	358		
TLGBUFAD	35C		
TLGDEQPL	3A4	A8	
TLGDEQST	3A4		
TLGDEQUE	3B0	A4	00010
TLGENQPL	394	98	
TLGENQST	390		
TLGENQUE	3A0	90	00014
TLGFLAG1	3C7		
TLGIOTAD	360		
TLGJCT	354		
TLGMAP	D8	8	00010
TLGMINOR	388		
TLGPCEWS	3C8	4	
TLGRECCT	3B4		
TLGREYE	388		
TLGRNAME	38C		
TLGSAVID	3C6		
TLGTQE	3B8		
TLGTTESV	380		
TLGTP	37C		
TLGVFCNT	3C4		
TLGVFPFX	384		
TLGWORK1	364		
TLGWORK2	368		
TLGWORK3	370		
TLGXECB	3C8		
TLG1ERR	3C8	40	
TLG1HEAD	3C8	10	
TLG1OPEN	3C8	80	
TLG1TRUN	3C8	20	

\$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
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	
		SJBSTQE		\$SJB	
		TLGTQE		\$TLGWORK	
		WRMTQE		\$WARNWRK	
		XFMSCTQE		\$XFMWORK	
		SRWTQE		\$SFRWORK	
		SNWTQE		\$SNFWORK	

:exp.

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'4'	0	TQETQE	"0,4" ADDR OF NEXT TIMER QUEUE ELMT
0	(0)	X'4 00004'	0	TQETIME	"4,4" SPECIFIED INTERVAL(TIMER UNITS) NOTE THAT THIS SHOULD BE RESET BEFORE EACH CALL TO \$STIMER
0	(0)	X'8 00004'	0	TQEPCE	"8,4" FLAG BYTE AND PCE ADDR TO \$POST
0	(0)	X'8 00001'	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

Comment

TQEFLAG1 BIT DEFINITIONS

End of Comment

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	BITSTRING	0	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	00001
TQELENG	0	C	
TQEPCE	0	8	00004
TQETIME	0	4	00004
TQETQE	0	4	
TQE1TPOP	0	80	

\$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					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TRCA	
0	(0)	CHARACTER	8		TRCA identifier
8	(8)	BITSTRING	1	TRCAFLAG	
8	(8)	BITSTRING	0	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)
8	(8)	BITSTRING	0	TRCAOREC	"X'40" OPR AUTHORIZED RECOVERY
8	(8)	BITSTRING	0	TRCAODMP	"X'20" OPR AUTHORIZED (DID NOT SUPPRESS) DUMP (HASP070)
8	(8)	BITSTRING	0	TRCATERM	"X'10" RECOVERY NOT POSSIBLE
8	(8)	BITSTRING	0	TRCAABND	"X'08" \$ABEND IN CONTROL
8	(8)	BITSTRING	0	TRCARTRY	"X'04" \$RETRY IN CONTROL
8	(8)	BITSTRING	0	TRCAEIIU	"X'02" EMERGENCY ERA IN USE
8	(8)	BITSTRING	0	TRCASUBT	"X'01" SUBTASK (\$STABEND) TRCA
9	(9)	BITSTRING	1	TRCAFLG2	HEXIT FLAG BYTE
9	(9)	BITSTRING	0	TRCAPJS2	"B'10000000" \$PJES2
9	(9)	BITSTRING	0	TRCAINIT	"B'01000000" EXIT FROM INITIALIZATION
9	(9)	BITSTRING	0	TRCAEXIT	"B'00100000" OPR REPLIED 'EXIT' TO HASP098
9	(9)	BITSTRING	0	TRCAINTA	"B'00010000" ABEND UNDER INIT PCE
9	(9)	BITSTRING	0	TRCA26EX	"B'00001000" EXIT 26 ROUTINE INVOKED
9	(9)	BITSTRING	0	TRCA26AB	"B'00000100" EXIT 26 ROUTINE ABENDED
9	(9)	BITSTRING	0	TRCA2ARR	"B'00000010" Processing in an ARR

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
9	(9)	BITSTRING	0	TRCA2PRC	"B'00000001" JES2 percolated
10	(A)	BITSTRING	1	TRCAFLG3	Third flag byte
10	(A)	BITSTRING	0	TRCA3CFT	"B'10000000" Cleaning up checkpoint
10	(A)	BITSTRING	0	TRCA3RMT	"B'01000000" REMOTE ind. for SDUMP
10	(A)	BITSTRING	0	TRCA3AUT	"B'00100000" Auto reply to \$HASP098
11	(B)	BITSTRING	1	TRCASNPF	FLAG BYTE USED BY ABNDSNAP
11	(B)	BITSTRING	0	TRCAHCPY	"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)	SIGNED	4	TRCACNCT	CONNECT ID FOR MLWTO
36	(24)	SIGNED	4	TRCAMSGW	
36	(24)	SIGNED	4	(0)	
36	(24)	ADDRESS	2		TEXT LENGTH
38	(26)	BITSTRING	2		MCSFLAGS
40	(28)	CHARACTER	53		
111	(6F)	BITSTRING	2		DESCRIPTOR CODES
113	(71)	BITSTRING	2		ROUTING CODES
115	(73)	BITSTRING	2		LINE TYPE
117	(75)	BITSTRING	1		AREA ID
118	(76)	ADDRESS	1		TOTAL NUMBER OF LINES X02007
184	(B8)	SIGNED	4	TRCAMODW (0)	MODMAP-STYLE ENTRY FOR ERMODULE
200	(C8)	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
204	(CC)	SIGNED	4	TRCAREGS (6)	REGS R13-R2 ON ENTRY TO \$ABEND
204	(CC)	X'D0 00004'	0	TRCAREGE	"TRCAREGS+4,4" REG 14 SLOT IN TRCAREGS
204	(CC)	X'D8 00004'	0	TRCAREG0	"TRCAREGS+12,4" REG 0 SLOT IN TRCAREGS
204	(CC)	X'DC 00004'	0	TRCAREG1	"TRCAREGS+16,4" REG 1 SLOT IN TRCAREGS
204	(CC)	X'E0 00004'	0	TRCAREG2	"TRCAREGS+20,4" REG 2 SLOT IN TRCAREGS
228	(E4)	SIGNED	4		Reserved
232	(E8)	ADDRESS	4	TRCALDAD	Address of LISTD storage
236	(EC)	ADDRESS	4	TRCAARMT	Address of REMOTE storage
240	(F0)	DBL WORD	8	(0)	
240	(F0)	X'F0	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.

End of Comment

240	(F0)	ADDRESS	4	TRCA72ID	072 DOM ID
244	(F4)	ADDRESS	4	TRCATOKN	TOKEN FOR EXIT 26 ESTAE
248	(F8)	SIGNED	4	TRCAECB	ECB FOR WTORS, SDUMPS, ETC
252	(FC)	BITSTRING	216	TRCAPSV	PCE STYLE SAVE AREA
468	(1D4)	ADDRESS	4	TRCADTE	CURRENT DTE ADDRESS
472	(1D8)	DBL WORD	8	TRCA26WK	WORK AREA FOR EXIT26
480	(1E0)	DBL WORD	8	TRCASIDS (0)	ASID LIST FOR \$SDUMP
480	(1E0)	X'6	0	TRCASDNO	"(*-TRCASIDS)/2" Number of ASIDs allowed
492	(1EC)	CHARACTER	4	TRCAOPT	TERMINATION OPTION AND SDUMP
492	(1EC)	X'F0 00065'	0	TRCADMPT	"TRCAOPT+L'TRCAOPT,101,C'C" TITLE, KEEP TOGETHER
600	(258)	SIGNED	4	TRCARRGS (16)	RESUMPTION REGS MOVED TO HERE
600	(258)	X'58 00004'	0	TRCARRG0	"TRCARRGS,4" JUST PRIOR TO FREEING OF ERA
600	(258)	X'88 00004'	0	TRCARRGC	"TRCARRGS+(R12*4),4"
600	(258)	X'90 00004'	0	TRCARRGE	"TRCARRGS+(R14*4),4"
600	(258)	X'94 00004'	0	TRCARRGF	"TRCARRGS+(R15*4),4"
664	(298)	SIGNED	4	TRCASDWK	WORK AREA FOR \$SDUMP MSGS,TITLE
672	(2A0)	BITSTRING	348	TRCAEERA	EMERGENCY ERA
1020	(3FC)	SIGNED	4	TRCASAVX (0)	PCE STYLE SAVE AREA FOR EXIT 26
1236	(4D4)	SIGNED	4	TRCAPPL (0)	PURGE PARAMETER LIST
1252	(4E4)	SIGNED	4	TRCASMFB (0)	EXIT SMF 'BUFFER'

\$TRCA Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1288	(508)	CHARACTER	6	TRCACODE	TERMINATION CODE FOR TRACE ID=7
1296	(510)	SIGNED	4		Reserved
1304	(518)	DBL WORD	8	(0)	ALIGN END OF TRCA
1304	(518)	X'18	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
TRCAABND	8	8		TRCARTRY	8	4
TRCAARMT	EC			TRCAR1E	14	
TRCACNCT	20			TRCAR1S	10	
TRCACODE	508			TRCASAVX	3FC	
TRCADMPT	1EC	F0	00065	TRCASNPF	B	
TRCADTE	1D4			TRCASTKN	4	
TRCADTEL	F0	F0		TRCASUBT	8	1
TRCAECB	F8			TRCATERM	8	10
TRCAEEIU	8	2		TRCATOKN	F4	
TRCAEERA	2A0			TRCAWORK	10	
TRCAERA	C			TRCA2ARR	9	2
TRCAEXIT	9	20		TRCA2PRC	9	1
TRCAFLAG	8			TRCA26AB	9	4
TRCAFLG2	9			TRCA26EX	9	8
TRCAFLG3	A			TRCA26WK	1D8	
TRCAHCPY	B	80		TRCA3AUT	A	20
TRCAINIT	9	40		TRCA3CFT	A	80
TRCAINTA	9	10		TRCA3RMT	A	40
TRCALDAD	E8			TRCA72ID	F0	
TRCALENG	518	18				
TRCALLEN	0					
TRCALSZ	14	14				
TRCAMODW	B8					
TRCAMSGW	24					
TRCANOPC	8	80				
TRCAODMP	8	20				
TRCAOPT	1EC					
TRCAOREC	8	40				
TRCAPJS2	9	80				
TRCAPPL	4D4					
TRCAPSV	FC					
TRCAREGE	CC	D0	00004			
TRCAREGS	CC					
TRCAREG0	CC	D8	00004			
TRCAREG1	CC	DC	00004			
TRCAREG2	CC	E0	00004			
TRCARIPL	C8					
TRCARNUM	C					
TRCARRGC	258	88	00004			
TRCARRGE	258	90	00004			
TRCARRGF	258	94	00004			
TRCARRGS	258					
TRCARRG0	258	58	00004			

\$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 \$SFSSWORK data area.
 TREBRNCH field of the \$TRE data area is used to chain the remaining TRE's of the address space.
 TRXTRE field of the \$TRX data area.

Serialization: Compare and Swap must be used to update the TRETRE field which indicates the owning TCB.

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.

\$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'2 '	0	TREVRNUM	"2" CURRENT VERSION OF TRE
5	(5)	BITSTRING	1	TRECKEY	ORIGINAL CALLER'S KEY
6	(6)	BITSTRING	2		RESERVED FOR FUTURE IBM USE
8	(8)	ADDRESS	4	TREBRNCH	ADDRESS OF NEXT TRE ON CHAIN
12	(C)	ADDRESS	4	TRETRE	ADDRESS OF CALLER'S TCB
16	(10)	ADDRESS	4	TRETRB	ADDRESS OF TCB'S ACTIVE RB
20	(14)	ADDRESS	4	TRECSAVE	ADDRESS OF CALLER'S SAVE AREA
24	(18)	ADDRESS	4	TREHCCT	Address of HCCT
28	(1C)	ADDRESS	4	TRETRXCR	ADDRESS OF MOST RECENT TRX

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>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.</p>					
End of Comment					
32	(20)	ADDRESS	4	TRERSAVE	ADDR OF MOST RECENT SAVE AREA
36	(24)	ADDRESS	4	TRESJBLK	SJB ADDR (IF LOCKED BY TASK)
40	(28)	ADDRESS	4	TRECPOOL	\$GETHP CHAINING FIELD
44	(2C)	ADDRESS	4	TREKEYSV	STORAGE KEY, XRT SAVE AREA, USED BY EXIT EFFECTOR, AND TRACE
48	(30)	ADDRESS	4	TREUSERA	RESERVED FOR USER
52	(34)	ADDRESS	4	TREUSERB	RESERVED FOR USER
56	(38)	BITSTRING	1	TREUSECT	USE COUNT FOR \$TRACK ENTRY
57	(39)	BITSTRING	1	TREFLAG3	Status flag byte 3
57	(39)	BITSTRING	0	TRE3JLOG	"B'10000000" JOBLOG ENQ active
57	(39)	BITSTRING	0	TRE3JESL	"B'01000000" JESLOG ENQ active
58	(3A)	BITSTRING	1	TRERSV (2)	RESERVED FIELDS
60	(3C)	ADDRESS	4	TREWAITE	POINTER TO A WAIT ELEMENT
64	(40)	BITSTRING	1	TREFLAG1	STATUS/FLAG BYTE 1
64	(40)	BITSTRING	0	TRE1TYPE	"B'10000000" TRE GOTTEN DURING \$\$SIBEGN PROCESSING, FREE DURING \$\$SSIEND PROCESSING, NOT \$RETURN
64	(40)	BITSTRING	0	TRE1TRAC	"B'01000000" TCB SPECIFIC TRACING BIT
64	(40)	BITSTRING	0	TRE1SSI	"B'00100000" TRE REPRESENTS AN SSI FUNCTION
64	(40)	BITSTRING	0	TRE1SENG	"B'00010000" TASK ISSUED \$STRAK ENQ
64	(40)	BITSTRING	0	TRE1TRAK	"B'00001000" \$STRAK IS IN CONTROL
64	(40)	BITSTRING	0	TRE1CBFX	"B'00000100" TCBFX SET BY \$\$SJBLOCK
64	(40)	BITSTRING	0	TRE1STAX	"B'00000010" STAX ISSUED BY \$\$SJBLOCK RTN
64	(40)	BITSTRING	0	TRE1NDMP	"B'00000001" RESTORE DUMP=NO ON RETURN TO RTM FROM \$SSI ESTAE
65	(41)	BITSTRING	1	TREFLAG2	STATUS/FLAG BYTE 2
65	(41)	BITSTRING	0	TRE2X33	"B'10000000" SSIDACLO - EXIT 33--ISSUE MESSAGE FLAG
65	(41)	BITSTRING	0	TRE2CNCL	"B'01000000" SSIALOC - Internal reader allocation was cancelled
65	(41)	BITSTRING	0	TRE2LHLD	"B'00100000" SJBLOCK HELD BY CALLER OF SVC 35
65	(41)	BITSTRING	0	TRE2ENQH	"B'00010000" TRACE TABLE ENQ HELD BY \$TRACER ROUTINE
65	(41)	BITSTRING	0	TRE2LOG	"B'00001000" Log the error in LOGREC (via SETRP RECORD=YES)
65	(41)	BITSTRING	0	TRE2LKUS	"B'00000100" SJBLOCK was usurped from this RB
65	(41)	BITSTRING	0	TRE2LL	"B'00000010" SJBLOCK got local lock
65	(41)	BITSTRING	0	TRE2LKST	"B'00000001" SJBLOCK was stolen from this task
66	(42)	BITSTRING	1	TREUSER1	STATUS/FLAG RESERVED FOR USER
67	(43)	BITSTRING	1	TREX30TP	EXIT 30--TYPE OF DATASET BYTE
68	(44)	SIGNED	4		Reserved
72	(48)	BITSTRING	1	TRECRTRC	CALLRTM return code (see \$\$SJBLOCK routine)
73	(49)	BITSTRING	3		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.

End of Comment

76	(4C)	SIGNED	4	TREWTAWA	Work area addr for SSIWTA
80	(50)	SIGNED	4	TREWTAGO	NZ if TCB owns SJBLOGGO
84	(54)	SIGNED	4	TREWTASJ	Addr of SJB with log prob.

\$TRE Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
88	(58)	CHARACTER	13	TREWTAEB	EBCDIC portion of minor
101	(65)	BITSTRING	8	TREWTAST	ASCB Token of minor
101	(65)	X'58 00015'	0	TREWTAMI	"TREWTAEB,*-TREWTAEB" Define RNAME for ENQ/DEQ
112	(70)	SIGNED	4	TRESAVE (0)	SAVE AREA FOR SAVE/RETURN SRVCS
112	(70)	DBL WORD	8	TREDOUB	Generate dword scratch area MCSFLUSH places TOD here

Comment

ENQ/DEQ PARAMETER LISTS

End of Comment

204	(CC)	SIGNED	2	TRENQSTR (0)	START OF THE ENQ/DEQ PARM LISTS
-----	------	--------	---	--------------	---------------------------------

Comment

MACRO-DATE = 95/03/03

End of Comment

204	(CC)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
204	(CC)	X'CC '	0	TRERDRNQ	*** X02113
204	(CC)	ADDRESS	1		PELLAST flag byte. X02113
205	(CD)	ADDRESS	1		PELMILEN - RNAME length.
206	(CE)	BITSTRING	1		

Comment

PELFLAG - flag byte 2.

End of Comment

207	(CF)	ADDRESS	1		PELRET - return code byte.
208	(D0)	ADDRESS	4		QNAME ADDRESS
212	(D4)	ADDRESS	4		RNAME ADDRESS
212	(D4)	X'C '	0	TRERDRNL	**-TRERDRNQ" Length of RDR ENQ list form

Comment

MACRO-DATE = 05/05/95

End of Comment

204	(CC)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
204	(CC)	X'CC '	0	TRERDRDQ	*** X02113
204	(CC)	ADDRESS	1		PELLAST flag byte. X02113
205	(CD)	ADDRESS	1		PELMILEN - RNAME length.
206	(CE)	BITSTRING	1		

Comment

PELFLAG - flag byte 2.

End of Comment

207	(CF)	ADDRESS	1		PELRET - return code byte.
208	(D0)	ADDRESS	4		QNAME ADDRESS
212	(D4)	ADDRESS	4		RNAME ADDRESS
212	(D4)	X'C '	0	TRERDRDL	**-TRERDRDQ" Length of RDR DEQ list form

Comment

MACRO-DATE = 95/03/03

End of Comment

204	(CC)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
204	(CC)	X'CC '	0	TRESVJNQ	*** X02113
204	(CC)	ADDRESS	1		PELLAST flag byte. X02113
205	(CD)	ADDRESS	1		PELMILEN - RNAME length.

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
206	(CE)	BITSTRING	1		
Comment					
PELFLAG - flag byte 2.					
End of Comment					
207	(CF)	ADDRESS	1		PELRET - return code byte.
208	(D0)	ADDRESS	4		QNAME ADDRESS
212	(D4)	ADDRESS	4		RNAME ADDRESS
212	(D4)	X'C '	0	TRESVJNL	**-TRESVJNQ" Length SVJ ENQ list form
Comment					
MACRO-DATE = 05/05/95					
End of Comment					
204	(CC)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
204	(CC)	X'CC '	0	TRESVJDQ	*** X02113
204	(CC)	ADDRESS	1		PELLAST flag byte. X02113
205	(CD)	ADDRESS	1		PELMILEN - RNAME length.
206	(CE)	BITSTRING	1		
Comment					
PELFLAG - flag byte 2.					
End of Comment					
207	(CF)	ADDRESS	1		PELRET - return code byte.
208	(D0)	ADDRESS	4		QNAME ADDRESS
212	(D4)	ADDRESS	4		RNAME ADDRESS
212	(D4)	X'C '	0	TRESVJDL	**-TRESVJDQ" Length SVJ DEQ list form
Comment					
MACRO-DATE = 95/03/03					
End of Comment					
204	(CC)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
204	(CC)	X'CC '	0	TRESAPNQ	*** X02113
204	(CC)	ADDRESS	1		PELLAST flag byte. X02113
205	(CD)	ADDRESS	1		PELMILEN - RNAME length.
206	(CE)	BITSTRING	1		
Comment					
PELFLAG - flag byte 2.					
End of Comment					
207	(CF)	ADDRESS	1		PELRET - return code byte.
208	(D0)	ADDRESS	4		QNAME ADDRESS
212	(D4)	ADDRESS	4		RNAME ADDRESS
212	(D4)	X'C '	0	TRESAPNL	**-TRESAPNQ" Length SAPID ENQ list form
Comment					
MACRO-DATE = 05/05/95					
End of Comment					
204	(CC)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
204	(CC)	X'CC '	0	TRESAPDQ	*** X02113
204	(CC)	ADDRESS	1		PELLAST flag byte. X02113
205	(CD)	ADDRESS	1		PELMILEN - RNAME length.
206	(CE)	BITSTRING	1		

\$TRE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
PELFLAG - flag byte 2.					
End of Comment					
207	(CF)	ADDRESS	1		PELRET - return code byte.
208	(D0)	ADDRESS	4		QNAME ADDRESS
212	(D4)	ADDRESS	4		RNAME ADDRESS
212	(D4)	X'C '	0	TRESAPDL	** -TRESAPDQ" Length SAPID DEQ list form
Comment					
MACRO-DATE = 95/03/03					
End of Comment					
204	(CC)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
204	(CC)	X'CC '	0	TREWTANQ	*** X02113
204	(CC)	ADDRESS	1		PELLAST flag byte. X02113
205	(CD)	ADDRESS	1		PELMILEN - RNAME length.
206	(CE)	BITSTRING	1		
Comment					
PELFLAG - flag byte 2.					
End of Comment					
207	(CF)	ADDRESS	1		PELRET - return code byte.
208	(D0)	ADDRESS	4		QNAME ADDRESS
212	(D4)	ADDRESS	4		RNAME ADDRESS
212	(D4)	X'C '	0	TREWTANL	** -TREW TANQ" Length JOBLOG ENQ list form
Comment					
MACRO-DATE = 05/05/95					
End of Comment					
204	(CC)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
204	(CC)	X'CC '	0	TREWTADQ	*** X02113
204	(CC)	ADDRESS	1		PELLAST flag byte. X02113
205	(CD)	ADDRESS	1		PELMILEN - RNAME length.
206	(CE)	BITSTRING	1		
Comment					
PELFLAG - flag byte 2.					
End of Comment					
207	(CF)	ADDRESS	1		PELRET - return code byte.
208	(D0)	ADDRESS	4		QNAME ADDRESS
212	(D4)	ADDRESS	4		RNAME ADDRESS
212	(D4)	X'C '	0	TREWTADL	** -TREW TADQ" Length JOBLOG DEQ list form
Comment					
MACRO-DATE = 95/03/03					
End of Comment					
204	(CC)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
204	(CC)	X'CC '	0	TREJLGNQ	*** X02113
204	(CC)	ADDRESS	1		PELLAST flag byte. X02113
205	(CD)	ADDRESS	1		PELMILEN - RNAME length.
206	(CE)	BITSTRING	1		

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
PELFLAG - flag byte 2.					
End of Comment					
207	(CF)	ADDRESS	1		PELRET - return code byte.
208	(D0)	ADDRESS	4		QNAME ADDRESS
212	(D4)	ADDRESS	4		RNAME ADDRESS
212	(D4)	X'C '	0	TREJLGNL	** -TREWTANQ" Length JESLOG ENQ list form
Comment					
MACRO-DATE = 05/05/95					
End of Comment					
204	(CC)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
204	(CC)	X'CC '	0	TREJLGDQ	*** X02113
204	(CC)	ADDRESS	1		PELLAST flag byte. X02113
205	(CD)	ADDRESS	1		PELMILEN - RNAME length.
206	(CE)	BITSTRING	1		
Comment					
PELFLAG - flag byte 2.					
End of Comment					
207	(CF)	ADDRESS	1		PELRET - return code byte.
208	(D0)	ADDRESS	4		QNAME ADDRESS
212	(D4)	ADDRESS	4		RNAME ADDRESS
212	(D4)	X'C '	0	TREJLGDQ	** -TREWTADQ" Length JESLOG DEQ list form
Comment					
<p>-----</p> <p>THE RNAME FOR THE ENQ MUST MATCH THE RNAME FOR THE EXCLUSIVE ENQ THAT IS KEPT IN THE EVENT TRACE LOG PCE WORKAREA (\$TLGWORK).</p> <p>-----</p>					
End of Comment					
Comment					
MACRO-DATE = 95/03/03					
End of Comment					
204	(CC)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
204	(CC)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
208	(D0)	ADDRESS	4		PREFIX - ECB ADDRESS
208	(D0)	X'D4 '	0	TRETRENQ	*** X02113
212	(D4)	ADDRESS	1		PELLAST flag byte. X02113
213	(D5)	ADDRESS	1		PELMILEN - RNAME length.
214	(D6)	BITSTRING	1		
Comment					
PELFLAG - flag byte 2.					
End of Comment					
215	(D7)	ADDRESS	1		PELRET - return code byte.
216	(D8)	ADDRESS	4		QNAME ADDRESS
220	(DC)	ADDRESS	4		RNAME ADDRESS
220	(DC)	X'C '	0	TRETRENQ	** -TRETRENQ" Length of TCB ENQ list form

\$TRE Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MACRO-DATE = 05/05/95					
End of Comment					
204	(CC)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
204	(CC)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
204	(CC)	X'D0	0	TRETRDEQ	*** X02113
208	(D0)	ADDRESS	1		PELLAST flag byte. X02113
209	(D1)	ADDRESS	1		PELMILEN - RNAME length.
210	(D2)	BITSTRING	1		
Comment					
PELFLAG - flag byte 2.					
End of Comment					
211	(D3)	ADDRESS	1		PELRET - return code byte.
212	(D4)	ADDRESS	4		QNAME ADDRESS
216	(D8)	ADDRESS	4		RNAME ADDRESS
216	(D8)	X'C	0	TRETRDEL	** -TRETRDEQ" Length of TCB DEQ list form
224	(E0)	SIGNED	4	(0)	FULWORD ALIGN
224	(E0)	CHARACTER	8	TRERNAME (0)	RNAME FOR DEQ
224	(E0)	CHARACTER	4	TREREYE	EYECATCHER IN RNAME
228	(E4)	ADDRESS	4	TRRECUR	TRACE TABLE ADDRESS IN RNAME
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					
232	(E8)	CHARACTER	92	TRECF1SA	SAVE AREA PLUS JES2 EXTENSIONS
236	(EC)	CHARACTER	4	TRECF1SV	MAKE IT A C'F1SA' SAVE AREA
Comment					
<p>THE FOLLOWING FIELDS ARE USED BY \$ERROR ,RECOVER PROCESSING</p>					
End of Comment					
324	(144)	ADDRESS	4	TREERTKN	TOKEN FOR \$ERROR'S ESTAE
328	(148)	SIGNED	4	TREERTMA	TEMP REG STORAGE
332	(14C)	SIGNED	4	TREERTMB	MORE TEMP REG STORAGE
336	(150)	CHARACTER	92	TREERSVE	SAVE AREA FOR ESTAE
428	(1AC)	SIGNED	4	TRESSIWK (0)	SSI FUNCTION DEPENDENT WORKAREA ORG'D OVER BY MAPPINGS BELOW
Comment					
<p>THE FOLLOWING MAPPING OF THE TRESSIWK AREA IS USED BY SSIDACLO FOR EXIT 33 SUPPORT.</p>					
End of Comment					
428	(1AC)	BITSTRING	1	TREDAXDT	EXIT 33 DATASET TYPE BYTE

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
The following mapping of the TRESSIWK area is used by SSINOUS for Notify SSI support.					
End of Comment					
428	(1AC)	ADDRESS	4	TRENUWRK	Addr of NOUSWRK area
432	(1B0)	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					
428	(1AC)	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					
428	(1AC)	ADDRESS	4	TRESFWRK	Addr of SFSWORK area
432	(1B0)	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					
428	(1AC)	SIGNED	4	(0)	
428	(1AC)	ADDRESS	1	TREJBEST	FLAGS FOR ESTAEX
429	(1AD)	ADDRESS	1		SECOND FLAG BYTE
430	(1AE)	ADDRESS	1		THIRD FLAG BYTE
431	(1AF)	ADDRESS	1		VERSION NUMBER
432	(1B0)	ADDRESS	4		TOKEN VALUE AREA
436	(1B4)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
440	(1B8)	ADDRESS	4		ALET FOR PARM LIST
444	(1BC)	ADDRESS	4		EXIT ADDR NOT SPEC'D
444	(1BC)	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					
428	(1AC)	ADDRESS	4	TREPJRB	PJCL MTRB
Comment					
The following mapping of the TRESSIWK area is used by the SSIALOC routine in HASCDALS.					
End of Comment					
428	(1AC)	ADDRESS	4	TREI304	DOM ID for HASP304

\$TRE Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
The following mapping of the TRESSIWK area is used by the SSISOUT2 routine in HASCSAPI.					
End of Comment					
428	(1AC)	SIGNED	4	TRESAPIA	SAPI ALET value for SAPID
432	(1B0)	ADDRESS	4	TRESAPID	SAPI address of SAPID
Comment					
The following mapping of the TRESSIWK area is used by End of Memory SSI support.					
End of Comment					
428	(1AC)	ADDRESS	4	TREOMSTM	Address of work area
432	(1B0)	BITSTRING	1	TREOMFL1	Flags
432	(1B0)	BITSTRING	0	TREOM1ST	"B'10000000" STIMERM in effect
448	(1C0)	SIGNED	4	TREESTWK (0)	Workarea org'd over by mappings below
Comment					
The following mapping of the TREESTWK area is used by recovery in HASCLINK.					
End of Comment					
448	(1C0)	SIGNED	4	TRERECRA	Holds the retry address
452	(1C4)	SIGNED	4	TRERECSA	Addr of SSI caller's save area
456	(1C8)	SIGNED	4	TRERECFA	Addr of SSI function addr
460	(1CC)	SIGNED	4	TRERECWK	Temp work area for VRADATA
464	(1D0)	SIGNED	2	TRERECFN	Abending SSI function num
Comment					
The following mapping of the TREESTWK area is used by the SSISSETUP routine for the list form of ESTAE.					
End of Comment					
448	(1C0)	SIGNED	4	(0)	
448	(1C0)	ADDRESS	1	TREESTAE	FLAGS FOR ESTAEX
449	(1C1)	ADDRESS	1		SECOND FLAG BYTE
450	(1C2)	ADDRESS	1		THIRD FLAG BYTE
451	(1C3)	ADDRESS	1		VERSION NUMBER
452	(1C4)	ADDRESS	4		TOKEN VALUE AREA
456	(1C8)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
460	(1CC)	ADDRESS	4		ALET FOR PARM LIST
464	(1D0)	ADDRESS	4		EXIT ADDR NOT SPEC'D
464	(1D0)	X'14	0	TREESTAL	**-"TREESTAE" Length of ESTAE parameter list
468	(1D4)	X'D4	0	TRELEN	**-"TRE" LENGTH OF TRE DSECT

\$TRE Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
TREBRNCH	8		TRESSIWK	1AC	
TRECF1SA	E8		TRESVJDL	D4	C
TRECF1SV	EC	C6F1E2C1	TRESVJDQ	CC	CC
TRECKEY	5		TRESVJNL	D4	C
TRECMB	1B0		TRESVJNQ	CC	CC
TRECPOOL	28		TRETCB	C	
TRECRTRC	48		TRETRDEL	D8	C
TRECSAVE	14		TRETRDEQ	CC	D0
TREDAXDT	1AC		TRETRENL	DC	C
TREDAXPL	1AC		TRETRENQ	D0	D4
TREDOUB	70		TRETRXCR	1C	
TREERSVE	150		TREUSECT	38	
TREERTKN	144		TREUSERA	30	
TREERTMA	148		TREUSERB	34	
TREERTMB	14C		TREUSER1	42	
TREESTAE	1C0		TREVRNUM	4	2
TREESTAL	1D0	14	TREVRSN	4	
TREESTWK	1C0		TREWAITE	3C	
TREFLAG1	40		TREWTADL	D4	C
TREFLAG2	41		TREWTADQ	CC	CC
TREFLAG3	39		TREWTAEB	58	
TREHCCT	18		TREWTAGO	50	
TREID	0	E3D9C540	TREWTAMI	65	58
TREI304	1AC		TREWTANL	D4	C
TREJBESL	1BC	14	TREWTANQ	CC	CC
TREJBEST	1AC		TREWTASJ	54	
TREJLGD	D4	C	TREWTAST	65	
TREJLGDQ	CC	CC	TREWTAWA	4C	
TREJLGNL	D4	C	TREX30TP	43	
TREJLGNQ	CC	CC	TRE1CBFX	40	4
TREKEYSV	2C		TRE1NDMP	40	1
TRELEN	1D4	D4	TRE1SENQ	40	10
TRENQSTR	CC		TRE1SSI	40	20
TRENUWRK	1AC		TRE1STAX	40	2
TREOMFL1	1B0		TRE1TRAC	40	40
TREOMSTM	1AC		TRE1TRAK	40	8
TREOM1ST	1B0	80	TRE1TYPE	40	80
TREPJRB	1AC		TRE2CNCL	41	40
TRERB	10		TRE2ENQH	41	10
TRERCUR	E4		TRE2LHLD	41	20
TRERDRDL	D4	C	TRE2LKST	41	1
TRERDRDQ	CC	CC	TRE2LKUS	41	4
TRERDRNL	D4	C	TRE2LL	41	2
TRERDRNQ	CC	CC	TRE2LOG	41	8
TRERECFA	1C8		TRE2X33	41	80
TRERECFN	1D0		TRE3JESL	39	40
TRERECRA	1C0		TRE3JLOG	39	80
TRERECSA	1C4				
TRERECWK	1CC				
TREREYE	E0				
TRERNAME	E0				
TRERSAVE	20				
TRERSV	3A				
TRESAPDL	D4	C			
TRESAPDQ	CC	CC			
TRESAPIA	1AC				
TRESAPID	1B0				
TRESAPNL	D4	C			
TRESAPNQ	CC	CC			
TRESAVE	70				
TRESFRB	1B0				
TRESFWRK	1AC				
TRESJBLK	24				

\$TRE Cross Reference

\$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'2 '	0	TRXVRNUM	"2" 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
7	(7)	BITSTRING	0	TRX1SSI	"B'10000000" TRX represents ESTAE established by \$SSIBEGN
7	(7)	BITSTRING	0	TRX1ESTA	"B'01000000" TRX represents ESTAE established by \$ESTAE
7	(7)	BITSTRING	0	TRX1ESTE	"B'00100000" Associated ESTAE is established
7	(7)	BITSTRING	0	TRX1RCVY	"B'00010000" In use by RECOVERY - If this bit is on when cancel, percolated
7	(7)	BITSTRING	0	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	Address of recovery parmlist
16	(10)	ADDRESS	4	TRXTOKEN	ESTAE token for this ESTAE
20	(14)	ADDRESS	4	TRXPREV	Address of previous TRX
24	(18)	ADDRESS	4	TRXTRE	Address of TRE for this TRX
28	(1C)	ADDRESS	4	TRXUSER1	User field 1
32	(20)	ADDRESS	4	TRXUSER2	User field 2

Offsets

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

Next comes a caller address array. This is a 25x8 byte array, with header fields, used to save the addresses of the caller of a routine which issues a \$SAVE macro. This array is used to determine the sequence of calls both for dump analysis, as well as for the \$HASPO88 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'8	0	TRXCLRLN	"L'TRXCLRAR" Length of a single entry
36	(24)	X'4'	0	TRXCLRAD	"0,4,C'A'" Address of caller of routine
36	(24)	X'4 00004'	0	TRXCLRNM	"4,4,C'A'" Address of called routien name
40	(28)	BITSTRING	8	TRXCLRAR (0)	Caller array

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

240	(F0)	CHARACTER	32	TRXTRACK	Area for debugging data
272	(110)	SIGNED	2	TRXTRACL (0)	Length of debugging data
272	(110)	SIGNED	1	TRXLOGWK	Upper byte of length (0)
273	(111)	SIGNED	1	TRXLOGLN	Length of data (0-32)
274	(112)	BITSTRING	2		Reserved for future IBM use

Comment

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

End of Comment

276	(114)	SIGNED	4	TRXGRSAV	General register save area at time of \$ESTAE invocation
340	(154)	SIGNED	4	TRXARSAV (16)	Access register save area at time of \$ESTAE invocation
404	(194)	SIGNED	4	TRXECBTR	ECB used to WAIT forever
404	(194)	X'98	0	TRXLEN	"*-TRX"

\$TRX Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
TRXARSAV	154		TRXNUMEN	24	19
TRXCLRAD	24	4	TRXPREV	14	
TRXCLRAR	28		TRXRADDR	C	
TRXCLRLN	24	8	TRXRCSVRY	5	
TRXCLRNM	24	4	00004	TRXRECAD	8
TRXECBTR	194		TRXRECNM	6	
TRXFLAG1	7		TRXTOKEN	10	
TRXGRSAV	114		TRXTRACK	F0	
TRXID	0	E3D9E740	TRXTRACL	110	
TRXLEN	194	98	TRXTRE	18	
TRXLOGLN	111		TRXUSER1	1C	
TRXLOGWK	110	0	TRXUSER2	20	
TRXNEXTN	24		TRXVRNUM	4	2

\$TRX Cross Reference

Name	Hex Offset	Hex Value
TRXVRSN	4	
TRX1ESTA	7	40
TRX1ESTE	7	20
TRX1PERC	7	8
TRX1RCVY	7	10
TRX1SSI	7	80

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

Serialization: Normal PCE dispatch serialization

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

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

\$WARMWRK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP WARM START PROCESSOR
216	(D8)	BITSTRING	12	WRMTQE	TIMER QUEUE ELEMENT
228	(E4)	ADDRESS	4	WRMCYLMP	ADDR OF TRK ALLOCATE WORK AREA
232	(E8)	ADDRESS	4	WRMTGM	ADDRESS OF TEMP TRACK GROUP MAP
236	(EC)	ADDRESS	4	WRMTGML	LENGTH OF TEMP TRACK GROUP MAP
240	(F0)	ADDRESS	4	WRMJCTBF	JCT BUFFER ADDRESS
244	(F4)	ADDRESS	4	WRMIOTBF	IOT BUFFER ADDRESS (first)
248	(F8)	ADDRESS	4	WRMIOTBD	IOT BUFFER ADDRESS (second)
252	(FC)	SIGNED	4	WRMMTTR	SAVE AREA FOR MTTR
256	(100)	SIGNED	4	WRMMTTRD	Save area for MTTR
260	(104)	SIGNED	4	WRMMONXT	MTTR of IOT after mother
264	(108)	SIGNED	4	WRMMOCUR	MTTR of current Mother IOT
268	(10C)	ADDRESS	4	WRMWCA	Addr warm start comm area
272	(110)	ADDRESS	4	WRMOTHER	Addr of mother warm start PCE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
276	(114)	ADDRESS	4	WRMESYSQ	Addr of \$E SYS QSE
280	(118)	SIGNED	4	WRMDOMID	DOMID for HASP493
284	(11C)	ADDRESS	4	WRMWSJQE	Single JQE to warm start
288	(120)	ADDRESS	4	WRMJQE	Current JQA
292	(124)	SIGNED	4	WRMJQE0F	Offset of current real JQE
296	(128)	BITSTRING	32	WRMSUMSK	JOB SPLS USED MASK BUILD AREA
328	(148)	BITSTRING	8	WRMSDOWN	SYSTEM DOWN TABLE
336	(150)	SIGNED	2	WRMNRDAU	Number of daughter PCEs
338	(152)	BITSTRING	1		Reserved for future use
339	(153)	BITSTRING	1	WRMFLAG1	WARM START PROCESSOR STATUS BYTE
339	(153)	BITSTRING	0	WRM1PCEM	"B'10000000" This is a mother PCE
339	(153)	BITSTRING	0	WRM1PCED	"B'01000000" This is a daughter PCE
339	(153)	BITSTRING	0	WRM1RERD	"B'00100000" SET TO READ BOTH CHAINS OF IOTS
339	(153)	BITSTRING	0	WRM1UNSP	"B'00010000" UNSPUN IOT EXISTS FOR JOB
339	(153)	BITSTRING	0	WRM1RDER	"B'00001000" JCT READ ERROR OCCURRED
339	(153)	BITSTRING	0	WRM1NETQ	"B'00000100" PROCESSING NETWORK QUEUE
339	(153)	BITSTRING	0	WRM1JQEJ	"B'00000010" RUNNING JQE JOE CHAIN FOR JOB
339	(153)	BITSTRING	0	WRM1HLDQ	"B'00000001" PROCESSING HOLD QUEUE
340	(154)	ADDRESS	4	WRMCHKBF	CHK I/O BUFFER ADDRESS
344	(158)	BITSTRING	1	WRMFLAG2	WARM START JOB STATUS FLAG
344	(158)	BITSTRING	0	WRM2TEST	"B'10000000" REQUEUE JOB AFTER MORE TESTING
344	(158)	BITSTRING	0	WRM2PURG	"B'01000000" REQUEUE JOB FOR PURGE
344	(158)	BITSTRING	0	WRM2NSPL	"B'00100000" SPOOL NOT AVAILABLE
344	(158)	BITSTRING	0	WRM2STRT	"B'00010000" REQUEUE STARTING STC/TSU JOB
344	(158)	BITSTRING	0	WRM2NBSY	"B'00001000" REQUEUE NON-BUSY JOB
344	(158)	BITSTRING	0	WRM2JERR	"B'00000100" JOB HAS JCT ERROR
344	(158)	BITSTRING	0	WRM2QREM	"B'00000010" Remove job from the system
344	(158)	BITSTRING	0	WRM2MTTR	"B'00000001" UPDATE JOB'S SPOOLS USED MASK FROM THE MTTR
345	(159)	BITSTRING	1	WRMFLAG3	WARM START FLAG BYTE 3
345	(159)	BITSTRING	0	WRM3SIOT	"B'10000000" SPIN IOT TO BE READ
345	(159)	BITSTRING	0	WRM3DAUG	"B'01000000" Daughter IOT to process
345	(159)	BITSTRING	0	WRM3MACT	"B'00100000" Mother PCE which is active
345	(159)	BITSTRING	0	WRM3NICN	"B'00010000" Not in init continuation
345	(159)	BITSTRING	0	WRM3PJOE	"B'00001000" Processing JOE purge queue
345	(159)	BITSTRING	0	WRM3LOCK	"B'00000100" Warm start lock acquired
345	(159)	BITSTRING	0	WRM3DUPS	"B'00000010" Duplicate jobs released
345	(159)	BITSTRING	0	WRM3RJOE	"B'00000001" Processing JOE rebuild que
346	(15A)	BITSTRING	1	WRMTYPE	Warm start type (bits are the same as those defined for \$WARMTYP)
347	(15B)	BITSTRING	1	WRMFLAG4	Warm Start flag byte 4
347	(15B)	BITSTRING	0	WRM4E58S	"B'10000000" ENF58 signal should not be issued when a JOE is \$#PUT back onto the queue
347	(15B)	BITSTRING	0	WRM4NQIK	"B'01000000" This member not quick startable => AMWS abort
347	(15B)	BITSTRING	0	WRM4AMWS	"B'00100000" This warmstart began as all member type
347	(15B)	BITSTRING	0	WRM4ALIC	"B'00010000" Work found for ALICE
348	(15C)	BITSTRING	1	WRMSTAT1	Job state flag (See \$WR1xxxx in HASPWARM)
349	(15D)	BITSTRING	7		Reserved for future use
356	(164)	ADDRESS	4	WRMBLOB	Address of temporary checkpointed BLOB
360	(168)	SIGNED	4	WRMJQEFA	Number of JQE warmstart failures
364	(16C)	SIGNED	4	(0)	Align on fullword boundary
364	(16C)	BITSTRING	20	WRM\$\$SIR	\$IOTERR parameter list
384	(180)	SIGNED	4	(0)	ALIGN WARM PCE WORK AREA
384	(180)	X'A8	0	WRMPCEWS	**-PCEWORK" LENGTH OF PCE WORK AREA

\$WARMWRK Cross Reference

\$WARMWRK Cross Reference

Name	Hex Offset	Hex Value
WRM\$SIR	16C	
WRMBLOB	164	
WRMCHKBF	154	
WRMCYLMP	E4	
WRMDOMID	118	
WRMESYSQ	114	
WRMFLAG1	153	
WRMFLAG2	158	
WRMFLAG3	159	
WRMFLAG4	15B	
WRMIOTBD	F8	
WRMIOTBF	F4	
WRMJCTBF	F0	
WRMJQE	120	
WRMJQEFA	168	
WRMJQEOF	124	
WRMMOCUR	108	
WRMMONXT	104	
WRMMTTR	FC	
WRMMTTRD	100	
WRMNRDAU	150	
WRMOTHER	110	
WRMPCEWS	180	A8
WRMSDOWN	148	0
WRMSTAT1	15C	
WRMSUMSK	128	
WRMTGM	E8	
WRMTGML	EC	
WRMTQE	D8	
WRMTYPE	15A	
WRMWCA	10C	
WRMWSJQE	11C	
WRM1HLDQ	153	1
WRM1JQEJ	153	2
WRM1NETQ	153	4
WRM1PCED	153	40
WRM1PCEM	153	80
WRM1RDER	153	8
WRM1RERD	153	20
WRM1UNSP	153	10
WRM2JERR	158	4
WRM2MTTR	158	1
WRM2NBSY	158	8
WRM2NSPL	158	20
WRM2PURG	158	40
WRM2QREM	158	2
WRM2STRT	158	10
WRM2TEST	158	80
WRM3DAUG	159	40
WRM3DUPS	159	2
WRM3LOCK	159	4
WRM3MACT	159	20
WRM3NICN	159	10
WRM3PJOE	159	8
WRM3RJOE	159	1
WRM3SIOT	159	80
WRM4ALIC	15B	10
WRM4AMWS	15B	20
WRM4E58S	15B	80
WRM4NQIK	15B	40

\$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
4	(4)	BITSTRING	0	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
44	(2C)	BITSTRING	0	WAVXJ2C	"B'10000000" \$SEAS JES2 coder
44	(2C)	BITSTRING	0	WAVXUSR	"B'01000000" \$SEAS user coder
44	(2C)	BITSTRING	0	WAVXMSG	"B'00100000" Message addr for \$HASP077
44	(2C)	BITSTRING	0	WAVXFNC	"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
46	(2E)	BITSTRING	2		Reserved for future use
48	(30)	SIGNED	4	(0)	
48	(30)	BITSTRING	1	WAVFLAG1	Flags
48	(30)	BITSTRING	0	WAV1SUBF	"B'10000000" Subtaskd \$RACROUT failed
48	(30)	BITSTRING	0	WAV1WAIT	"B'01000000" WAIT=YES requested
48	(30)	BITSTRING	0	WAV1NCOD	"B'00000010" User return code to be used
48	(30)	BITSTRING	0	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	IHB1089A	***
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	ICH01098	***
168	(A8)	ADDRESS	1	IHB1089C	LENGTH OF RACHECK PARAMETER LIST
169	(A9)	ADDRESS	3		
172	(AC)	BITSTRING	1		
173	(AD)	ADDRESS	3		
176	(B0)	BITSTRING	1		
177	(B1)	ADDRESS	3		
180	(B4)	BITSTRING	1		3RD FLAGS
181	(B5)	ADDRESS	3		
184	(B8)	ADDRESS	4		- OLD VOLSER ADDR FIELD

\$WAVE Map

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

Comment

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

End of Comment

64	(40)	SIGNED	4	(0)	
64	(40)	X'40	0	IHB1099A	***
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	ICH01108	***
168	(A8)	ADDRESS	1	IHB1099C	LIST LENGTH
169	(A9)	ADDRESS	1		NO SUBPOOL SPECIFIED
170	(AA)	BITSTRING	1		

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
171	(AB)	BITSTRING	1		
172	(AC)	ADDRESS	4		- USERID ADDRESS FIELD
176	(B0)	ADDRESS	4		- PASSWORD ADDRESS FIELD
180	(B4)	ADDRESS	4		- PROCEDURE NAME ADDR FIELD
184	(B8)	ADDRESS	4		- INSTALLATION PARAMETERS ADDRESS
188	(BC)	ADDRESS	4		- GROUP ADDRESS FIELD
192	(C0)	ADDRESS	4		- NEW PASSWORD ADDRESS FIELD
196	(C4)	ADDRESS	4		- PGMNAME ADDRESS FIELD
200	(C8)	ADDRESS	4		- ACTINFO ADDRESS FIELD
204	(CC)	ADDRESS	4		- OIDCARD ADDRESS FIELD
208	(D0)	ADDRESS	4		- TERMID ADDRESS FIELD
212	(D4)	ADDRESS	4		- JOBNAME ADDRESS FIELD
216	(D8)	ADDRESS	4		- APPL ADDRESS FIELD
220	(DC)	ADDRESS	4		- ACEE ADDRESS FIELD
224	(E0)	ADDRESS	1		SESSION
225	(E1)	BITSTRING	1		FLAG2
226	(E2)	ADDRESS	2		FUTURE USE
228	(E4)	ADDRESS	4		- SECLABL ADDRESS FIELD
232	(E8)	ADDRESS	4		- EXENODE ADDRESS FIELD
236	(EC)	ADDRESS	4		- SUSERID ADDRESS FIELD
240	(F0)	ADDRESS	4		- SNODE ADDRESS FIELD
244	(F4)	ADDRESS	4		- SGROUP ADDRESS FIELD
248	(F8)	ADDRESS	4		- POE ADDRESS FIELD
252	(FC)	ADDRESS	4		- INPUT TOKEN ADDRESS
256	(100)	ADDRESS	4		- STOKEN ADDRESS FIELD
260	(104)	ADDRESS	4		- LOGSTR ADDRESS FIELD
264	(108)	ADDRESS	4		- OUTPUT TOKEN ADDRESS

Comment

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

End of Comment

64	(40)	SIGNED	4	(0)	
64	(40)	X'40	0	IHB1109A	***
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		

\$WAVE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	ICH01118	***
168	(A8)	ADDRESS	4	IHB1109C	- 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	ICH1118A (0)	
Comment					
RACROUTE REQUEST=TOKENXTR,MF=L,RELEASE=1.9					
End of Comment					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40	0	IHB1119A	***
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	ICH01128	***
168	(A8)	ADDRESS	4	IHB1119C	- 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	ICH1128A (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	IHB1129A	***
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	ICH01138	***
168	(A8)	ADDRESS	1	IHB1129C	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
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)	ADDRESS	2		FUTURE USE
228	(E4)	ADDRESS	4		- SECLABL ADDRESS FIELD
232	(E8)	ADDRESS	4		- EXENODE ADDRESS FIELD
236	(EC)	ADDRESS	4		- SUSERID ADDRESS FIELD

\$WAVE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	IHB1139A	***
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	ICH01148	***
168	(A8)	ADDRESS	1	IHB1139C	LIST LENGTH
169	(A9)	ADDRESS	1		NO SUBPOOL SPECIFIED
170	(AA)	BITSTRING	1		
171	(AB)	BITSTRING	1		
172	(AC)	ADDRESS	4		- USERID ADDRESS FIELD
176	(B0)	ADDRESS	4		- PASSWORD ADDRESS FIELD
180	(B4)	ADDRESS	4		- PROCEDURE NAME ADDR FIELD
184	(B8)	ADDRESS	4		- INSTALLATION PARAMETERS ADDRESS
188	(BC)	ADDRESS	4		- GROUP ADDRESS FIELD
192	(C0)	ADDRESS	4		- NEW PASSWORD ADDRESS FIELD
196	(C4)	ADDRESS	4		- PGMNAME ADDRESS FIELD
200	(C8)	ADDRESS	4		- ACTINFO ADDRESS FIELD
204	(CC)	ADDRESS	4		- OIACARD ADDRESS FIELD
208	(D0)	ADDRESS	4		- TERMID ADDRESS FIELD
212	(D4)	ADDRESS	4		- JOBNAME ADDRESS FIELD
216	(D8)	ADDRESS	4		- APPL ADDRESS FIELD

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
220	(DC)	ADDRESS	4		- ACEE ADDRESS FIELD
224	(E0)	ADDRESS	1		SESSION
225	(E1)	BITSTRING	1		FLAG2
226	(E2)	ADDRESS	2		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	IHB1149A	***
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	ICH01158	***
168	(A8)	ADDRESS	1	IHB1149C	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

\$WAVE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
192	(C0)	ADDRESS	4		- NEW PASSWORD ADDRESS FIELD
196	(C4)	ADDRESS	4		- PGMNAME ADDRESS FIELD
200	(C8)	ADDRESS	4		- ACTINFO ADDRESS FIELD
204	(CC)	ADDRESS	4		- OIDCARD ADDRESS FIELD
208	(D0)	ADDRESS	4		- TERMID ADDRESS FIELD
212	(D4)	ADDRESS	4		- JOBNAME ADDRESS FIELD
216	(D8)	ADDRESS	4		- APPL ADDRESS FIELD
220	(DC)	ADDRESS	4		- ACEE ADDRESS FIELD
224	(E0)	ADDRESS	1		SESSION
225	(E1)	BITSTRING	1		FLAG2
226	(E2)	ADDRESS	2		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	IHB1159A	***
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	IHB1159C (0)	
168	(A8)	SIGNED	4	ICH1168A (0)	
168	(A8)	ADDRESS	2		LENGTH OF LIST IN BYTES

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	ICH1168B	*** 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	ICH1168C (0)	END OF PARAMETER LIST
212	(D4)	SIGNED	2	ICH1168D (0)	
Comment					
RACROUTE REQUEST=AUDIT,MF=L,RELEASE=1.9					
End of Comment					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40	0	IHB1177A	***
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	IHB1177C (0)	START OF RACAUDIT PLIST
168	(A8)	ADDRESS	2	ICH1186B	VERSION
170	(AA)	ADDRESS	2		LENGTH
172	(AC)	ADDRESS	4		
176	(B0)	ADDRESS	2		EVENT QUALIFIER
178	(B2)	ADDRESS	2		RESERVED

\$WAVE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	ICH1186F (0)	END OF RACAUDIT PLIST
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
84	(54)	BITSTRING	0	WAVCNTRL	"B'00001000" Control (system)
84	(54)	BITSTRING	0	WAVCUPD	"B'00000100" Update (job, device)
84	(54)	BITSTRING	0	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	WAVCMSG	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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>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.</p>					
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
780	(30C)	CHARACTER	53	WAVRJNAM	JESSPOOL Resource name
780	(30C)	CHARACTER	63	WAVRINAM	ISFAUTH Resource name
848	(350)	DBL WORD	8	WAVEND (0)	Ensure WAVE ends on a dblw
848	(350)	X'50	0	WAVLEN	"WAVEND-WAVE" Length of WAVE

\$WAVE Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ICH01098	A8	A8	WAVCA04	66	
ICH01108	A8	A8	WAVCA05	67	
ICH01118	A8	A8	WAVCA06	68	
ICH01128	A8	A8	WAVCA07	6C	
ICH01138	A8	A8	WAVCA08	70	
ICH01148	A8	A8	WAVCA09	74	
ICH01158	A8	A8	WAVCA10	78	
ICH1118A	C0		WAVCA11	7C	
ICH1128A	C0		WAVCA12	80	
ICH1168A	A8		WAVCCRN	40	
ICH1168B	B0	B4	WAVCMSG	5C	
ICH1168C	D4		WAVCNTRL	54	8
ICH1168D	D4		WAVCREAD	54	2
ICH1186B	A8		WAVCSSCM	4C	
ICH1186F	D8		WAVCTKN	44	
IHB1089A	40	40	WAVCTXT	48	
IHB1089C	A8		WAVCUCMI	58	
IHB1099A	40	40	WAVCUPD	54	4
IHB1099C	A8		WAVEID	0	E6C1E5C5
IHB1109A	40	40	WAVEND	350	
IHB1109C	A8		WAVEPRIO	5	
IHB1119A	40	40	WAVERSN	4	1
IHB1119C	A8		WAVESQD	8	
IHB1129A	40	40	WAVEXITP	2C	
IHB1129C	A8		WAVEXTLA	34	
IHB1139A	40	40	WAVFLAG1	30	
IHB1139C	A8		WAVFUNCD	24	
IHB1149A	40	40	WAVJMSKA	28	
IHB1149C	A8		WAVLEN	350	50
IHB1159A	40	40	WAVLEVEL	4	
IHB1159C	A8		WAVRACCD	18	
IHB1177A	40	40	WAVRACLN	10C	CC
IHB1177C	A8		WAVRACRC	14	
WAVCA	60		WAVRACRP	40	
WAVCACL	54		WAVRAUD	2D	A
WAVCALN	80	2C	WAVRAUTH	2D	1
WAVCARTA	50		WAVRCBA	20	
WAVCA01	60		WAVRCBN	1C	
WAVCA02	64		WAVRCMD	2D	8
WAVCA03	65		WAVRDSNM	315	

\$WAVE Cross Reference

Name	Hex Offset	Hex Value
WAVREQST	2D	
WAVRETC	C	
WAVRINAM	30C	
WAVRJNAM	30C	
WAVRNAMS	30C	
WAVRNODE	30C	
WAVRRWK	10C	
WAVRSEP1	314	
WAVRSNCD	10	
WAVRSRCL	315	35
WAVRSRCN	30C	
WAVRTBLD	2D	2
WAVRTMAP	2D	3
WAVRTXTR	2D	4
WAVRVFYC	2D	6
WAVRVFYD	2D	7
WAVRVFYX	2D	5
WAVRXTRT	2D	9
WAVURSV	3C	
WAVXFNCD	2C	10
WAVXJ2C	2C	80
WAVXMSG	2C	20
WAVXUSR	2C	40
WAV1BYPS	30	1
WAV1NCOD	30	2
WAV1SUBF	30	80
WAV1WAIT	30	40

\$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
88	(58)	BITSTRING	0	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)	ADDRESS	4	WLM JSWRK	Work area address
104	(68)	SIGNED	4	WLM JSWLN	Work area length

Comment

Data areas for calling WLM services

End of Comment

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
112	(70)	DBL WORD	8	WLMDATAD (0)	General double word area
112	(70)	SIGNED	4	WLMDATA1	General data area 1
116	(74)	SIGNED	4	WLMDATA2	General data area 2
120	(78)	SIGNED	4	WLMDATA3	General data area 3
124	(7C)	SIGNED	4	WLMDATA4	General data area 4
124	(7C)	X'70 00010'	0	WLMDATAx	"WLMDATA1,16,C'X'" 16 byte work area
128	(80)	SIGNED	4	WLMRETCD	WLM service return code
132	(84)	SIGNED	4	WLMRESCD	WLM service reason code
136	(88)	BITSTRING	1	WLMLFUNC	Last function called (used for HASP712 message)
136	(88)	X'1 '	0	WLMFCONN	"1" IWMCNN - connect
136	(88)	X'2 '	0	WLMFPQRY	"2" IWMPQRY - query policy
136	(88)	X'3 '	0	WLMFDISC	"3" IWMDISC - disconnect
136	(88)	X'4 '	0	WLMFBREG	"4" IWMBREG - Registration
136	(88)	X'5 '	0	WLMFDREG	"5" IWMBDREG - Deegistration
137	(89)	BITSTRING	3		Reserved

Comment

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

End of Comment

140	(8C)	SIGNED	4	WMLBLDM (0)	Control block ID
144	(90)	BITSTRING	4		Console ID
148	(94)	ADDRESS	4		Address of the CART
152	(98)	ADDRESS	4		Pointer for JOBID
156	(9C)	ADDRESS	4		Control block address
160	(A0)	ADDRESS	4		Display routine address
164	(A4)	ADDRESS	4	(6)	6 word work area
188	(BC)	BITSTRING	2		ROUT code for Message
190	(BE)	BITSTRING	2		Not used
192	(C0)	CHARACTER	4		Message ID
196	(C4)	CHARACTER	1		Separator character
197	(C5)	ADDRESS	1		Flag byte 1
198	(C6)	ADDRESS	1		'DISPER'
199	(C7)	ADDRESS	1		Flag byte 2
200	(C8)	BITSTRING	16		Not used
216	(D8)	ADDRESS	4	(0)	Ensure multiple of 4
216	(D8)	ADDRESS	2	(0)	
0	(0)	X'4C '	0	WMLBLDML	** -WMLBLDM" Length of \$BLDMSG MF=L
216	(D8)	SIGNED	4	WLMPORG (0)	Org label for inline parm lists

Comment

WLM connect

End of Comment

0	(0)	X'D8 '	0	M00M1091	"WLMCONN" ++ IWMCNN NAME
216	(D8)	DBL WORD	8	WLMCONN (0)	++ IWMCNN PARM LIST
216	(D8)	BITSTRING	1	WLMCONN_XVERSION	++ INPUT XVERSION
217	(D9)	BITSTRING	1	WLMCONN_XCONNECT_OPTIONS	++ FIELD_LABEL
217	(D9)	BITSTRING	0	WLMCONN_XCONNTKNKEYP_VALUE	"B'10000000" ++ XCONNTKNKEYP.VALUE KEYWORD
218	(DA)	CHARACTER	1	WLMCONN_XRSV0002	++ RESERVED XRSV0002
219	(DB)	BITSTRING	1	WLMCONN_XCONNTKNKEY	++ XCONNTKNKEY
220	(DC)	CHARACTER	4	WLMCONN_XSUBSYS	++ XSUBSYS
224	(E0)	ADDRESS	4	WLMCONN_XSUBSYSNM_ADDR	++ ADDR XSUBSYSNM

\$WLMD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
228	(E4)	CHARACTER	4	WLMCONNL_XRSV000C	++ RESERVED XRSV000C
232	(E8)	SIGNED	4	WLMCONNL_XNUMBERASCB	++ XNUMBERASCB
236	(EC)	ADDRESS	4	WLMCONNL_XTOPOLOGY_ADDR	++ ADDR XTOPOLOGY
240	(F0)	CHARACTER	4	WLMCONNL_XRSV0018	++ RESERVED XRSV0018
244	(F4)	BITSTRING	4	WLMCONNL_XCONNTKN	++ XCONNTKN
248	(F8)	ADDRESS	4	WLMCONNL_XQMGR_EXIT@	++ XQMGR_EXIT@
248	(F8)	X'FC '	0	WLMCONNL_PL_END	*** ++ END OF BASE PLIST
248	(F8)	X'24 '	0	WLMCONNLL	** -WLMCONNL" ++ LENGTH OF PLIST

Comment

IWMCONN-2

WLM Disconnect

End of Comment

Comment

MACDATE -09/15/99-<0>

End of Comment

0	(0)	X'D8 '	0	M00M1093	"WLMDISCL" ++ IWMDISC NAME
216	(D8)	DBL WORD	8	WLMDISCL (0)	++ IWMDISC PARM LIST
216	(D8)	BITSTRING	1	WLMDISCL_XVERSION	++ INPUT XVERSION
217	(D9)	CHARACTER	3	WLMDISCL_XRSV0001	++ RESERVED XRSV0001
220	(DC)	BITSTRING	4	WLMDISCL_XCONNTKN	++ XCONNTKN
224	(E0)	CHARACTER	4	WLMDISCL_XRSV0008	++ RESERVED XRSV0008
224	(E0)	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'D8 '	0	M00M1094	"WLMPQRYL" ++ IWMPQRY NAME
216	(D8)	DBL WORD	8	WLMPQRYL (0)	++ IWMPQRY PARM LIST
216	(D8)	BITSTRING	1	WLMPQRYL_XVERSION	++ INPUT XVERSION
217	(D9)	CHARACTER	3	WLMPQRYL_XRSV0001	++ RESERVED XRSV0001
220	(DC)	ADDRESS	4	WLMPQRYL_XANSAREA_ADDR	++ ADDR XANSAREA

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
224	(E0)	SIGNED	4	WLMPQRYL_XANSAREA_ALET	++ ALET XANSAREA
228	(E4)	SIGNED	4	WLMPQRYL_XANSLEN	++ XANSLEN
232	(E8)	SIGNED	4	WLMPQRYL_XQUERYLEN	++ XQUERYLEN
236	(EC)	CHARACTER	4	WLMPQRYL_XRSV0014	++ RESERVED XRSV0014
236	(EC)	X'18	0	WLMPQRYLL	** -WLMPQRYL" ++ LENGTH OF PLIST

Comment

IWMPQRY-0

WLM queue registration

End of Comment

Comment

MACDATE -04/02/97-<0>

End of Comment

0	(0)	X'D8	0	M00M1095	"WLMQREG" ++ IWMBREG NAME
216	(D8)	DBL WORD	8	WLMQREG (0)	++ IWMBREG PARM LIST
216	(D8)	BITSTRING	1	WLMQREG_XVERSION	++ INPUT XVERSION
217	(D9)	CHARACTER	1	WLMQREG_XRSV0001	++ RESERVED XRSV0001
218	(DA)	BITSTRING	2	WLMQREG_XPLISTLEN	++ INPUT XPLISTLEN
220	(DC)	CHARACTER	16	WLMQREG_XQTOKEN	++ XQTOKEN
236	(EC)	CHARACTER	32	WLMQREG_XSVDEF_ID	++ XSVDEF_ID
268	(10C)	ADDRESS	4	WLMQREG_XAPPLENV_ADDR	++ ADDR XAPPLENV
272	(110)	CHARACTER	8	WLMQREG_XSRVCLSNM	++ XSRVCLSNM
280	(118)	SIGNED	4	WLMQREG_XNUMSYS	++ XNUMSYS
284	(11C)	CHARACTER	8	WLMQREG_XRSV0044	++ RESERVED XRSV0044
284	(11C)	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'D8	0	M00M1096	"WLMQDREG" ++ IWMBDREG NAME
216	(D8)	DBL WORD	8	WLMQDREG (0)	++ IWMBDREG PARM LIST
216	(D8)	BITSTRING	1	WLMQDREG_XVERSION	++ INPUT XVERSION

\$WLMD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
217	(D9)	CHARACTER	1	WLMQDREG_XRSV0001	++ RESERVED XRSV0001
218	(DA)	BITSTRING	2	WLMQDREG_XPLISTLEN	++ INPUT XPLISTLEN
220	(DC)	CHARACTER	16	WLMQDREG_XQTOKEN	++ XQTOKEN
236	(EC)	BITSTRING	1	WLMQDREG_XDEREG_OPTIONS	++ FIELD_LABEL
236	(EC)	BITSTRING	0	WLMQDREG_XTYPE_SPECIFIC	"B'10000000" ++ XTYPE.SPECIFIC KEYWORD
236	(EC)	BITSTRING	0	WLMQDREG_XTYPE_ALL	"B'01000000" ++ XTYPE.ALL KEYWORD
237	(ED)	CHARACTER	7	WLMQDREG_XRSV0015	++ RESERVED XRSV0015
237	(ED)	X'1C	0	WLMQDREGL	"*-WLMQDREG" ++ LENGTH OF PLIST

Comment

IWMBDREG-0

WLM service class validation

End of Comment

Comment

MACDATE -03/27/97-<0>

End of Comment

0	(0)	X'D8	0	M00M1097	"WLMBSET" ++ IWMBSET NAME
216	(D8)	DBL WORD	8	WLMBSET (0)	++ IWMBSET PARM LIST
216	(D8)	BITSTRING	1	WLMBSET_XVERSION	++ INPUT XVERSION
217	(D9)	CHARACTER	1	WLMBSET_XRSV001	++ RESERVED XRSV001
218	(DA)	BITSTRING	2	WLMBSET_XPLISTLEN	++ INPUT XPLISTLEN
220	(DC)	BITSTRING	4	WLMBSET_XSERVCLS	++ XSERVCLS
224	(E0)	CHARACTER	8	WLMBSET_XSRVCLSNM	++ XSRVCLSNM
232	(E8)	CHARACTER	4	WLMBSET_XRSV002	++ RESERVED XRSV002
232	(E8)	X'14	0	WLMBSETL	"*-WLMBSET" ++ LENGTH OF PLIST

Comment

IWMBSET-0

WLM scheduling environment availability testing

End of Comment

0	(0)	X'D8	0	M00M1098	"WLMBSCHE" ++ IWMBSEDES NAME
216	(D8)	DBL WORD	8	WLMBSCHE (0)	++ IWMBSEDES PARM LIST
216	(D8)	BITSTRING	1	WLMBSCHE_XVERSION	++ INPUT XVERSION
217	(D9)	CHARACTER	1	WLMBSCHE_XRSV0001	++ RESERVED XRSV0001
218	(DA)	BITSTRING	2	WLMBSCHE_XPLISTLEN	++ INPUT XPLISTLEN
220	(DC)	CHARACTER	16	WLMBSCHE_XSCHENV	++ XSCHENV

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
236	(EC)	CHARACTER	8	WLMBSCHXSYSTEM_NAME	++ XSYSTEM_NAME
244	(F4)	CHARACTER	16	WLMBSCHXRSV001C	++ RESERVED XRSV001C
244	(F4)	X'2C '	0	WLMBSCHL	**WLMBSCHL" ++ LENGTH OF PLIST

Comment

IWMSEDES-0

WLM scheduling environment definition testing

End of Comment

Comment

MACDATE -04/02/97-<0>

End of Comment

0	(0)	X'D8 '	0	M00M1099	"WLMSEVAL" ++ IWMSEVAL NAME
216	(D8)	DBL WORD	8	WLMSEVAL (0)	++ IWMSEVAL PARM LIST
216	(D8)	BITSTRING	1	WLMSEVAL_XVERSION	++ INPUT XVERSION
217	(D9)	CHARACTER	1	WLMSEVAL_XRSV0001	++ RESERVED XRSV0001
218	(DA)	BITSTRING	2	WLMSEVAL_XPLISTLEN	++ INPUT XPLISTLEN
220	(DC)	CHARACTER	16	WLMSEVAL_XSCHENV	++ XSCHENV
236	(EC)	CHARACTER	16	WLMSEVAL_XRSV0014	++ RESERVED XRSV0014
236	(EC)	X'24 '	0	WLMSEVAL	**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'D8 '	0	M00M1100	"WLMBLOC" ++ IWMBLOC NAME
216	(D8)	DBL WORD	8	WLMBLOC (0)	++ IWMBLOC PARM LIST
216	(D8)	BITSTRING	1	WLMBLOC_XVERSION	++ INPUT XVERSION
217	(D9)	CHARACTER	1	WLMBLOC_XRSV0001	++ RESERVED XRSV0001
218	(DA)	BITSTRING	2	WLMBLOC_XPLISTLEN	++ INPUT XPLISTLEN
220	(DC)	CHARACTER	16	WLMBLOC_XQTOKEN	++ XQTOKEN
236	(EC)	ADDRESS	4	WLMBLOC_XSYSTEML_ADDR	++ ADDR XSYSTEML
240	(F0)	SIGNED	4	WLMBLOC_XNUMSYS	++ XNUMSYS
244	(F4)	CHARACTER	8	WLMBLOC_XSRVCLSNM	++ XSRVCLSNM

\$WLMD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
252	(FC)	CHARACTER	8	WLMBLOC_XSYSNAME	++ XSYSNAME
260	(104)	CHARACTER	8	WLMBLOC_XRSV0024	++ RESERVED XRSV0024
260	(104)	X'34	0	WLMBLOCL	**-"WLMBLOC" ++ LENGTH OF PLIST
Comment					
IWMBLOC-0					
End of Comment					
268	(10C)	SIGNED	4	WLMSNUM	Number of MVS systems
272	(110)	CHARACTER	8	WLMSLIST (0)	List of MVS system names
Comment					
----- WLM demand batch request processing -----					
End of Comment					
Comment					
MACDATE -02/04/97-<0>					
End of Comment					
0	(0)	X'D8	0	M00M1101	"WLMBREQ" ++ IWMBREQ NAME
216	(D8)	DBL WORD	8	WLMBREQ (0)	++ IWMBREQ PARM LIST
216	(D8)	BITSTRING	1	WLMBREQ_XVERSION	++ INPUT XVERSION
217	(D9)	CHARACTER	1	WLMBREQ_XRSV0001	++ RESERVED XRSV0001
218	(DA)	BITSTRING	2	WLMBREQ_XPLISTLEN	++ INPUT XPLISTLEN
220	(DC)	CHARACTER	8	WLMBREQ_XJOBTOKEN	++ XJOBTOKEN
228	(E4)	CHARACTER	16	WLMBREQ_XQTOKEN	++ XQTOKEN
244	(F4)	CHARACTER	8	WLMBREQ_XRSV001C	++ RESERVED XRSV001C
244	(F4)	X'24	0	WLMBREQL	**-"WLMBREQ" ++ LENGTH OF PLIST
Comment					
IWMBREQ-0					
----- WLM service class reset processing -----					
End of Comment					
Comment					
MACDATE -04/02/97-<0>					
End of Comment					
0	(0)	X'D8	0	M00M1102	"WLMBRST" ++ IWMRESET NAME
216	(D8)	DBL WORD	8	WLMBRST (0)	++ IWMRESET PARM LIST
216	(D8)	BITSTRING	1	WLMBRST_XVERSION	++ INPUT XVERSION
217	(D9)	BITSTRING	1	WLMBRST_XOPTIONS	++ FIELD_LABEL
217	(D9)	BITSTRING	0	WLMBRST_KEYUSED_SRVCLASS	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
217	(D9)	BITSTRING	0	WLMBRST_KEYUSED_PERFORM	"B'10000000" ++ KEYUSED.SRVCLASS KEYWORD
217	(D9)	BITSTRING	0	WLMBRST_XFUNCTION QUIESCE	"B'01000000" ++ KEYUSED.PERFORM KEYWORD
217	(D9)	BITSTRING	0	WLMBRST_XFUNCTION_RESUME	"B'00100000" ++ XFUNCTION.QUIESCE KEYWORD
217	(D9)	BITSTRING	0	WLMBRST_KEYUSED_JOBNAME	"B'00010000" ++ XFUNCTION.RESUME KEYWORD
217	(D9)	BITSTRING	0	WLMBRST_KEYUSED_ASID	"B'00001000" ++ KEYUSED.JOBNAME KEYWORD
218	(DA)	BITSTRING	2	WLMBRST_XPLISTLEN	"B'00000100" ++ KEYUSED.ASID KEYWORD
220	(DC)	CHARACTER	8	WLMBRST_XJOBNAME	++ INPUT XPLISTLEN
228	(E4)	BITSTRING	2	WLMBRST_XASID	++ XJOBNAME
230	(E6)	BITSTRING	2	WLMBRST_XPERFORM	++ XASID
232	(E8)	CHARACTER	8	WLMBRST_XSRVCLASS	++ XPERFORM
240	(F0)	CHARACTER	8	WLMBRST_XUSERID	++ XSRVCLASS
248	(F8)	CHARACTER	8	WLMBRST_XPRODUCT	++ XUSERID
248	(F8)	X'28	0	WLMBRSTL	++ XPRODUCT
					"*-WLMBRST" ++ LENGTH OF PLIST
Comment					
IWMRESET-0					
End of inline parm lists					
End of Comment					
528	(210)	X'D8 00138'	0	WLMPARM	"WLMPORG,*-WLMPORG" Label for inline parm lists
528	(210)	DBL WORD	8	(0)	Alignment
528	(210)	X'10	0	WLMSIZE	"*-WLMD" Size of bundle

\$WLMD Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
M00M1091	0	D8		104	
M00M1093	0	D8	WLBLOC_XSRVCLSNM		
M00M1094	0	D8		F4	
M00M1095	0	D8	WLBLOC_XSYSNAME		
M00M1096	0	D8		FC	
M00M1097	0	D8	WLBLOC_XSYSTEML_ADDR		
M00M1098	0	D8		EC	
M00M1099	0	D8	WLBLOC_XVERSION		
M00M1100	0	D8		D8	
M00M1101	0	D8	WLBLOCL	104	34
M00M1102	0	D8	WLBREQ	D8	
WLMBLDM	8C	C2D3C440	WLBREQ_XJOBTOKEN		
WLMBLDMML	0	4C		DC	
WLBLOC	D8		WLBREQ_XPLISTLEN		
WLBLOC_XNUMSYS				DA	
	F0		WLBREQ_XQTOKEN		
WLBLOC_XPLISTLEN				E4	
	DA		WLBREQ_XRSV0001		
WLBLOC_XQTOKEN				D9	
	DC		WLBREQ_XRSV001C		
WLBLOC_XRSV0001				F4	
	D9		WLBREQ_XVERSION		
WLBLOC_XRSV0024				D8	

\$WLMMD Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
WLMBREQL	F4	24	WLMCONNL_XCONNECT_OPTIONS		
WLMBRST	D8			D9	
WLMBRST_KEYUSED_ASID			WLMCONNL_XCONNTKN		
	D9	4		F4	
WLMBRST_KEYUSED_JOBNAME			WLMCONNL_XCONNTKNKEY		
	D9	8		DB	
WLMBRST_KEYUSED_PERFORM			WLMCONNL_XCONNTKNKEYP_VALUE		
	D9	40		D9	80
WLMBRST_KEYUSED_SRVCLASS			WLMCONNL_XNUMBERASCB		
	D9	80		E8	
WLMBRST_XASID			WLMCONNL_XQMGR_EXIT@		
	E4			F8	
WLMBRST_XFUNCTION QUIESCE			WLMCONNL_XRSV000C		
	D9	20		E4	
WLMBRST_XFUNCTION_RESUME			WLMCONNL_XRSV0002		
	D9	10		DA	
WLMBRST_XJOBNAME			WLMCONNL_XRSV0018		
	DC			F0	
WLMBRST_XOPTIONS			WLMCONNL_XSUBSYS		
	D9			DC	
WLMBRST_XPERFORM			WLMCONNL_XSUBSYSNM_ADDR		
	E6			E0	
WLMBRST_XPLISTLEN			WLMCONNL_XTOPOLOGY_ADDR		
	DA			EC	
WLMBRST_XPRODUCT			WLMCONNL_XVERSION		
	F8			D8	
WLMBRST_XSRVCLASS			WLMCONNLL	F8	24
	E8		WLMCURSV	28	
WLMBRST_XUSERID			WLMDATAD	70	
	F0		WLMDATAX	7C	70
WLMBRST_XVERSION			WLMDATA1	70	
	D8		WLMDATA2	74	
WLMBRSTL	F8	28	WLMDATA3	78	
WLMBSCH	D8		WLMDATA4	7C	
WLMBSCH_XPLISTLEN			WLMDISCL	D8	
	DA		WLMDISCL_XCONNTKN		
WLMBSCH_XRSV0001				DC	
	D9		WLMDISCL_XRSV0001		
WLMBSCH_XRSV001C				D9	
	F4		WLMDISCL_XRSV0008		
WLMBSCH_XSCHENV				E0	
	DC		WLMDISCL_XVERSION		
WLMBSCH_XSYSTEM_NAME				D8	
	EC		WLMDISCLL	E0	C
WLMBSCH_XVERSION			WLMFBREG	88	4
	D8		WLMFCONN	88	1
WLMBSCHL	F4	2C	WLMFDISC	88	3
WLMBSET	D8		WLMFDREG	88	5
WLMBSET_XPLISTLEN			WLMFLAG1	58	
	DA		WLMFPQRY	88	2
WLMBSET_XRSV001			WLMID	0	
	D9		WLMJSBQS	60	
WLMBSET_XRSV002			WLMJSDSR	5C	
	E8		WLMJSWLN	68	
WLMBSET_XSERVCLS			WLMJSWRK	64	
	DC		WLMJTOK	48	
WLMBSET_XSRVCLS NM			WMLFUNC	88	
	E0		WLM Parm	210	D8
WLMBSET_XVERSION			WLMPORG	D8	
	D8		WLM PQRYL	D8	
WLMBSETL	E8	14	WLM PQRYL_XANSAREA_ADDR		
WLMCONN	4			DC	
WLMCONNL	D8		WLM PQRYL_XANSAREA_ALET		
WLMCONNL_PL_END				E0	
	F8	FC	WLM PQRYL_XANSLEN		

Name	Hex Offset	Hex Value
	E4	
WLMPQRYL_XQUERYLEN	E8	
WLMPQRYL_XRSV0001	D9	
WLMPQRYL_XRSV0014	EC	
WLMPQRYL_XVERSION	D8	
WLMPQRYLL	EC	18
WLMQDREG	D8	
WLMQDREG_XDEREG_OPTIONS	EC	
WLMQDREG_XPLISTLEN	DA	
WLMQDREG_XQTOKEN	DC	
WLMQDREG_XRSV0001	D9	
WLMQDREG_XRSV0015	ED	
WLMQDREG_XTYPE_ALL	EC	40
WLMQDREG_XTYPE_SPECIFIC	EC	80
WLMQDREG_XVERSION	D8	
WLMQDREGL	ED	1C
WLMQREG	D8	
WLMQREG_XAPPLENV_ADDR	10C	
WLMQREG_XNUMSYS	118	
WLMQREG_XPLISTLEN	DA	
WLMQREG_XQTOKEN	DC	
WLMQREG_XRSV0001	D9	
WLMQREG_XRSV0044	11C	
WLMQREG_XSRVCLSNM	110	
WLMQREG_XSVDEF_ID	EC	
WLMQREG_XVERSION	D8	
WLMQREGL	11C	4C
WLMRESCD	84	
WLMRETCD	80	
WLMSEVAL	D8	
WLMSEVAL_XPLISTLEN	DA	
WLMSEVAL_XRSV0001	D9	
WLMSEVAL_XRSV0014	EC	
WLMSEVAL_XSCHENV	DC	
WLMSEVAL_XVERSION	D8	
WLMSEVALL	EC	24
WLMSIZE	210	10
WLMSLIST	110	
WLMSNUM	10C	

Name	Hex Offset	Hex Value
WLMSVDEF	8	
WLM1DEF	58	80

\$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	92	WSAWKL1	Save area for exact mtch WS
244	(F4)	CHARACTER	92	WSAWKL2	Save area for priority WS
336	(150)	BITSTRING	1	WSADELIM	FLAG BYTE FOR WS LIST BUILD
337	(151)	BITSTRING	1	WSAASLAS	FLAG BYTE FOR AFTER SLASH
338	(152)	CHARACTER	80	WSASVLST	SAVE AREA FOR WS LIST
418	(1A2)	BITSTRING	1	WSAFLG	INIT AND COMMAND WORK FLAG
420	(1A4)	ADDRESS	4	WSABSTWK	ADDRESS OF BEST WORK FOUND
424	(1A8)	BITSTRING	1	WSACLVAL	VALUE OF CLASS IN WORK LIST
425	(1A9)	BITSTRING	1	WSABCLVL	BEST WORK CLASS VALUE
426	(1AA)	BITSTRING	1	WSAFLAG1	\$#GET WORK FLAG 1
426	(1AA)	BITSTRING	0	WSA1OPT	"B'10000000" OPTIONAL CRITERIA FLAG
426	(1AA)	BITSTRING	0	WSA1HOLD	"B'01000000" HELD OUTPUT SELECTED
426	(1AA)	BITSTRING	0	WSA1BEST	"B'00100000" BEST JOE FOUND FOR SPOF
426	(1AA)	BITSTRING	0	WSA1CNET	"B'00010000" Currently on network Q
426	(1AA)	BITSTRING	0	WSA1CHLD	"B'00001000" Currently on hold Q
426	(1AA)	BITSTRING	0	WSA1CLOC	"B'00000100" Currently on local Q
426	(1AA)	BITSTRING	0	WSA1CRMT	"B'00000010" Currently on remote Q
426	(1AA)	BITSTRING	0	WSA1CUSR	"B'00000001" Currently on userid Q
426	(1AA)	X'1F '	0	WSA1CURQ	"WSA1CNET+WSA1CHLD+WSA1CLOC+WSA1CRMT+WSA1CUSR" Composition of all Qs
427	(1AB)	BITSTRING	1	WSAFLAG2	\$#GET WORK FLAG 2
427	(1AB)	BITSTRING	0	WSA2LOC	"B'10000000" SCANNED LOCAL QUEUE
427	(1AB)	BITSTRING	0	WSA2USE	"B'01000000" SCANNED USERID QUEUE
427	(1AB)	BITSTRING	0	WSA2RMT	"B'00100000" SCANNED REMOTE QUEUE
427	(1AB)	BITSTRING	0	WSA2RQTM	"B'00010000" TERMINATE REMOTE QUEUE SCAN
427	(1AB)	BITSTRING	0	WSA2RQCN	"B'00001000" CONTINUE REMOTE QUEUE SCAN
427	(1AB)	BITSTRING	0	WSA2NQTM	"B'00000100" SELECT WORK FROM NETWORK Q

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
427	(1AB)	BITSTRING	0	WSA2QQTM	"B'0000010" Terminate current Q scan
427	(1AB)	BITSTRING	0	WSA2BSRC	"B'0000001" Best route code found in current queue
428	(1AC)	BITSTRING	22	WSABSTV	Best criteria value
450	(1C2)	BITSTRING	22	WSACURV	Current criteria value
472	(1D8)	BITSTRING	24	WSAWRMSK	Highest possible value mask
496	(1F0)	ADDRESS	4	WSATABS	ADDR OF WS TABLES
496	(1F0)	BITSTRING	0	WSAUSER	"X'80" WS USER CRITERION IND
500	(1F4)	SIGNED	4	WSALLIM	Number of lines chained
504	(1F8)	SIGNED	4	WSAPLIM	Number of pages chained
508	(1FC)	ADDRESS	4	WSACBA (0)	CONTROL BLOCK ADDRESSES
508	(1FC)	ADDRESS	4	WSAHCT	ADDR OF HCT
512	(200)	ADDRESS	4	WSAUCT	ADDR OF UCT
516	(204)	ADDRESS	4	WSADCT	Address of DCT or zero
520	(208)	ADDRESS	4	WSAWSP	Address of WSP
524	(20C)	ADDRESS	4	WSAWSA	ADDR OF WSA
528	(210)	ADDRESS	4	WSAJQE	ADDR OF JQE
532	(214)	ADDRESS	4	WSAPCE	Addr of PCE
536	(218)	ADDRESS	4	WSAJCT	ADDR OF JCT
540	(21C)	ADDRESS	4	WSAWJOE	ADDR OF WORK JOE
544	(220)	ADDRESS	4	WSACJOE	ADDR OF CHAR-JOE
548	(224)	ADDRESS	4	WSANJHG	GEN SECTION JOB HDR ADDR
552	(228)	ADDRESS	4	WSANJH2	JES2 SECTION JOB HDR ADDR
556	(22C)	ADDRESS	4	WSANJHO	OFFLOAD SECTION JOB HDR
560	(230)	ADDRESS	4	WSANJHU	USER SECTION JOB HDR
564	(234)	ADDRESS	4	WSANJHT	Security Section Job Hdr
568	(238)	ADDRESS	4	WSANDHG	GENERAL SEC DS HDR ADDR
572	(23C)	ADDRESS	4	WSANDH2	JES2 SECT OF DS HDR ADDR
576	(240)	ADDRESS	4	WSANDHA	OFFLOAD SECTION DS HDR
580	(244)	ADDRESS	4	WSANDHS	DATASTREAM SEC OF DS HDR
584	(248)	ADDRESS	4	WSANDHU	USER SECTION DS HDR
588	(24C)	ADDRESS	4	WSANDHT	Security Section DS Hdr
592	(250)	ADDRESS	4	WSANJHOX	Affinity section job header
596	(254)	SIGNED	4	WSASTCK	High order word of TOD
600	(258)	ADDRESS	4	WSALST	ADDR OF WS LIST
604	(25C)	SIGNED	4	WSALSTCR	Maximum number of criteria in WS list
608	(260)	BITSTRING	128	WSAVOL (4)	VOLUME MASK
736	(2E0)	SIGNED	4	WSAMDSTR	Lowest remote route code for quick index to queue
740	(2E4)	SIGNED	4	WSAMDSTU	Lowest special local route code

Comment

Work area for ASAXWC macros

End of Comment

744	(2E8)	SIGNED	4	WSADATAL	Length of input string MACDATE -05/30/00-<0>
0	(0)	X'EC	0	M00M1092	"WSALIST" ++ ASAXWC NAME
748	(2EC)	SIGNED	4	WSALIST (0)	++ ASAXWC PARM LIST
748	(2EC)	ADDRESS	4	WSALIST_XPATTERNSTR_ADDR	++ ADDR XPATTERNSTR
752	(2F0)	SIGNED	4	WSALIST_XPATTERNSTRLEN	++ XPATTERNSTRLEN
756	(2F4)	ADDRESS	4	WSALIST_XSTRING_ADDR	++ ADDR XSTRING
760	(2F8)	SIGNED	4	WSALIST_XSTRINGLEN	++ XSTRINGLEN
764	(2FC)	ADDRESS	4	WSALIST_XZEROORMORE_ADDR	++ ADDR XZEROORMORE
768	(300)	ADDRESS	4	WSALIST_XONECHAR_ADDR	++ ADDR XONECHAR
772	(304)	ADDRESS	4	WSALIST_XDELIMITER_ADDR	++ ADDR XDELIMITER
772	(304)	X'1C	0	WSALISTL	**"WSALIST" ++ LENGTH OF PLIST

\$WSA Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
ASAXWC-0					
End of Comment					
776	(308)	BITSTRING	256	WSAAREA	Work area passed to ASAXWC
1032	(408)	DBL WORD	8	(0)	
1032	(408)	X'8	0	WSAWSLN	**-"WSA" Length of area cleared by WSSETUP
Comment					
----- Nothing beyond this point is cleared by WSSETUP -----					
ASAXWC translate table					
End of Comment					
1032	(408)	BITSTRING	256	WSATRTAB	Translate table for ASAXWC
Comment					
Work area for \$#GET "count" type call. Counts are accumulated for all JOEs which match the selection criteria.					
End of Comment					
1288	(508)	SIGNED	4	WSACTJOE	Number of JOEs matching
1292	(50C)	SIGNED	4	WSACLIN	Number of lines
1296	(510)	SIGNED	4	WSACPAGE	Number of pages
1296	(510)	X'8 0000C'	0	WSACOUNT	"WSACTJOE,*-WSACTJOE,C'X'"
Comment					
Work area for \$#POST					
End of Comment					
1300	(514)	BITSTRING	456	WSATWSP	Temporary WSP
1756	(6DC)	ADDRESS	4	WSAXMPST (3)	XM POST parameter list
1768	(6E8)	BITSTRING	50	WSAPRTBL	Room for 5 PRMODEs
1818	(71A)	BITSTRING	34	WSASPLWA	Working spools used mask
1852	(73C)	ADDRESS	4	WSAPSGTW	Address of GTW
1856	(740)	SIGNED	4	(0)	Ensure fullword alignment
1856	(740)	X'40	0	WSALEN	**-"WSA" LENGTH OF WSA

\$WSA Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
M00M1092	0	EC	WSADATAL	2E8	
WSAAREA	308		WSADCT	204	
WSAASLAS	151		WSADELIM	150	0
WSABCLVL	1A9		WSAFLAG1	1AA	
WSABSTV	1AC		WSAFLAG2	1AB	
WSABSTWK	1A4		WSAFLG	1A2	0
WSACBA	1FC		WSAHCT	1FC	
WSACJOE	220		WSAID	0	E6E2C140
WSACLIN	50C		WSAJCT	218	
WSACLRST	98		WSAJQE	210	
WSACLVAL	1A8		WSALEN	740	40
WSACOUNT	510	8 0000C	WSALIST	2EC	
WSACPAGE	510		WSALIST_XDELIMITER_ADDR	304	
WSACTJOE	508		WSALIST_XONECHAR_ADDR		
WSACURV	1C2				

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
	300		WSA2LOC	1AB	80
WSALIST_XPATTERNSTR_ADDR	2EC		WSA2NQTM	1AB	4
WSALIST_XPATTERNSTRLEN	2F0		WSA2QQTM	1AB	2
WSALIST_XSTRING_ADDR	2F4		WSA2RMT	1AB	20
WSALIST_XSTRINGLEN	2F8		WSA2RQCN	1AB	8
WSALIST_XZEROORMORE_ADDR	2FC		WSA2RQTM	1AB	10
WSALISTL	304	1C	WSA2USE	1AB	40
WSALLIM	1F4				
WSALST	258				
WSALSTCR	25C				
WSAMDSTR	2E0				
WSAMDSTU	2E4				
WSANDHA	240				
WSANDHG	238				
WSANDHS	244				
WSANDHT	24C				
WSANDHU	248				
WSANDH2	23C				
WSANJHG	224				
WSANJHO	22C				
WSANJHOX	250				
WSANJHT	234				
WSANJHU	230				
WSANJH2	228				
WSAPCE	214				
WSAPLIM	1F8				
WSAPRTBL	6E8				
WSAPSGTW	73C				
WSARSV1	5				
WSASAVE	50	0			
WSASPLWA	71A				
WSASRVSV	8	0			
WSASTCK	254				
WSASVLST	152	F0F04040			
WSATABS	1F0				
WSATR TAB	408				
WSATWSP	514				
WSAUCT	200				
WSAUSER	1F0	80			
WSAVERS	4				
WSAVOL	260				
WSAVRSN	4	3			
WSAWJOE	21C				
WSAWKL1	98				
WSAWKL2	F4				
WSAWRMSK	1D8				
WSAWSA	20C				
WSAWSLN	408	8			
WSAWSP	208				
WSAXMPST	6DC				
WSA1BEST	1AA	20			
WSA1CHLD	1AA	8			
WSA1CLOC	1AA	4			
WSA1CNET	1AA	10			
WSA1CRMT	1AA	2			
WSA1CURQ	1AA	1F			
WSA1CUSR	1AA	1			
WSA1HOLD	1AA	40			
WSA1OPT	1AA	80			
WSA2BSRC	1AB	1			

\$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
20	(14)	BITSTRING	0	WSC1DREG	"B'10000000" WSCREG represents systems which have deregistered
21	(15)	BITSTRING	3		Reserved
24	(18)	SIGNED	4	WSCDTOD	High order word of TOD when this queue became empty
32	(20)	DBL WORD	8	(0)	
32	(20)	X'20	0	WSCLLEN	** -WSC"

\$WSC Cross Reference

Name	Hex Offset	Hex Value
WSCDTOD	18	
WSCFLAG1	14	
WSCLLEN	20	20
WSCNAME	0	
WSCQHEAD	C	
WSCREG	10	
WSCSTOK	8	
WSC1DREG	14	80

\$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 WSPLENG
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
 (can have multiple lines if needed)
 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
20	(14)	BITSTRING	0	WSC1DREG	"B'10000000" WSCREG represents systems which have deregistered
21	(15)	BITSTRING	3		Reserved
24	(18)	SIGNED	4	WSCDTOD	High order word of TOD when this queue became empty
32	(20)	DBL WORD	8	(0)	
32	(20)	X'20	0	WSCLEN	"*-WSC"

\$WSP Cross Reference

Name	Hex Offset	Hex Value
WSCDTOD	18	
WSCFLAG1	14	
WSCLEN	20	20
WSCNAME	0	
WSCQHEAD	C	
WSCREG	10	
WSCSTOK	8	
WSC1DREG	14	80

\$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	3		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	XBCMAMBN	Member name work area
40	(28)	DBL WORD	8	XBCXLST (0)	Doubleword aligned

Comment

```
----- IXZXIXSM MF=(L,XBCXIXSM) Send message
      MACDATE -93/05/10-<1>
```

End of Comment

40	(28)	SIGNED	2	M00M1095 (0)	IXZXIXSM-1
40	(28)	DBL WORD	8	XBCXIXSM (0)	++ IXZXIXSM PARM LIST
40	(28)	BITSTRING	1	XBCXIXSM_XVERSION	++ INPUT XVERSION
41	(29)	CHARACTER	6	XBCXIXSM_XEYECATCH	++ CONSTANT XEYECATCH
47	(2F)	BITSTRING	1	XBCXIXSM_XMSGATTR	++ INPUT
47	(2F)	BITSTRING	0	XBCXIXSM_XMSGATTR_J3CONNECT	"B'10000000" ++ XMSGATTR.J3CONNECT KEYWORD
47	(2F)	BITSTRING	0	XBCXIXSM_XMSGATTR_EXPRESS	"B'01000000" ++ XMSGATTR.EXPRESS KEYWORD
48	(30)	CHARACTER	16	XBCXIXSM_XMBOXNAME	++ XMBOXNAME
64	(40)	CHARACTER	16	XBCXIXSM_XMEMBER	++ XMEMBER
80	(50)	ADDRESS	4	XBCXIXSM_XDATA	

\$XBCWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
84	(54)	SIGNED	4	XBCXIXSM_XDATALEN	++ XDATA
88	(58)	BITSTRING	8	XBCXIXSM_XREQTOKEN	++ XDATALEN
96	(60)	CHARACTER	16	XBCXIXSM_XREQMBOX	++ XREQTOKEN
112	(70)	SIGNED	4	XBCXIXSM_XDATAALET	++ XREQMBOX
116	(74)	SIGNED	4	XBCXIXSM_XRESPDALT	++ XDATAALET
120	(78)	SIGNED	4	XBCXIXSM_XECB	++ XRESPDALT
124	(7C)	SIGNED	4	XBCXIXSM_XEXIT	++ XECB
128	(80)	BITSTRING	8	XBCXIXSM_XCONNECT	++ XEXIT
136	(88)	SIGNED	4	XBCXIXSM_XGROUPTOKEN	++ XCONNECT
140	(8C)	SIGNED	4	XBCXIXSM_XUSERRC	++ XGROUPTOKEN
144	(90)	SIGNED	4	XBCXIXSM_XRESPDATA	++ XUSERRC
148	(94)	SIGNED	4	XBCXIXSM_XRESPDLEN	++ XRESPDATA
152	(98)	CHARACTER	4	XBCXIXSM_XRSV00001	++ XRESPDLEN
156	(9C)	BITSTRING	8	XBCXIXSM_XMSGTOKEN	++ RESERVED XRSV00001
164	(A4)	SIGNED	4	XBCXIXSM_XSYNCECB	++ XMSGTOKEN
168	(A8)	BITSTRING	1	XBCXIXSM_XREQTYPE	++ FIELD_LABEL XSYNCECB
168	(A8)	BITSTRING	0	XBCXIXSM_XREQTYPE_ASYNC	++ INPUT
168	(A8)	BITSTRING	0	XBCXIXSM_XREQTYPE_SYNC	"B'10000000" ++ XREQTYPE.ASYNC KEYWORD
168	(A8)	BITSTRING	0	XBCXIXSM_XREQTYPE_ASYNCACK	"B'01000000" ++ XREQTYPE.SYNC KEYWORD
168	(A8)	BITSTRING	0	XBCXIXSM_XREQTYPE_COMM	"B'00100000" ++ XREQTYPE.ASYNCACK KEYWORD
169	(A9)	BITSTRING	1	XBCXIXSM_XSEGTYPE	"B'00010000" ++ XREQTYPE.COMM KEYWORD
169	(A9)	BITSTRING	0	XBCXIXSM_XSEGTYPE_SINGLE	++ INPUT
169	(A9)	BITSTRING	0	XBCXIXSM_XSEGTYPE_FIRST	"B'10000000" ++ XSEGTYPE.SINGLE KEYWORD
169	(A9)	BITSTRING	0	XBCXIXSM_XSEGTYPE_MIDDLE	"B'01000000" ++ XSEGTYPE.FIRST KEYWORD
169	(A9)	BITSTRING	0	XBCXIXSM_XSEGTYPE_LAST	"B'00100000" ++ XSEGTYPE.MIDDLE KEYWORD
169	(A9)	BITSTRING	0	XBCXIXSM_XSEGTYPE_ABORT	"B'00010000" ++ XSEGTYPE.LAST KEYWORD
170	(AA)	BITSTRING	1	XBCXIXSM_XKEYS	"B'00001000" ++ XSEGTYPE.ABORT KEYWORD
170	(AA)	BITSTRING	0	XBCXIXSM_KEYUSED_REQTYPE	++ FIELD_LABEL
170	(AA)	BITSTRING	0	XBCXIXSM_KEYUSED_REQTOKEN	"B'10000000" ++ KEYUSED.REQTYPE KEYWORD
170	(AA)	BITSTRING	0	XBCXIXSM_KEYUSED_REQMBOX	"B'01000000" ++ KEYUSED.REQTOKEN KEYWORD
170	(AA)	BITSTRING	0	XBCXIXSM_KEYUSED_EXIT	"B'00100000" ++ KEYUSED.REQMBOX KEYWORD
170	(AA)	BITSTRING	0	XBCXIXSM_KEYUSED_SEGTYPE	"B'00010000" ++ KEYUSED.EXIT KEYWORD

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
170	(AA)	BITSTRING	0	XBCXIXSM_KEYUSED_CONNECT	"B'00001000" ++ KEYUSED.SEGTYPE KEYWORD
170	(AA)	BITSTRING	0	XBCXIXSM_KEYUSED_MSGTOKEN	"B'00000100" ++ KEYUSED.CONNECT KEYWORD
170	(AA)	BITSTRING	0	XBCXIXSM_KEYUSED_MSGATTR	"B'00000010" ++ KEYUSED.MSGTOKEN KEYWORD
171	(AB)	BITSTRING	1	XBCXIXSM_XKEYS1	"B'00000001" ++ KEYUSED.MSGATTR KEYWORD
171	(AB)	BITSTRING	0	XBCXIXSM_KEYUSED_ECB	++ FIELD_LABEL
171	(AB)	BITSTRING	0	XBCXIXSM_KEYUSED_DATAALET	"B'10000000" ++ KEYUSED.ECB KEYWORD
171	(AB)	BITSTRING	0	XBCXIXSM_KEYUSED_DATAALET	"B'01000000" ++ KEYUSED.DATAALET KEYWORD
171	(AB)	X'84	0	XBCXIXSML	"*-XBCXIXSM" ++ LENGTH OF PLIST

Comment

IXZXIXSM-1

End of Comment

176	(B0)	DBL WORD	8	(0)	Doubleword aligned
176	(B0)	X'28 00088'	0	XBCXLIST	"XBCXLST,*-XBCXLST" IXZ list form
176	(B0)	X'B0	0	XBCWLEN	"*-XBCWORK" Length of work area

\$XBCWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
M00M1095	28			70	
XBCBUFA	8		XBCXIXSM_XDATALEN		
XBCBUFL	C			54	
XBCEYE	0		XBCXIXSM_XECB		
XBCMASKA	10			78	
XBCMBNA	14		XBCXIXSM_XEXIT		
XBCMEMBN	18			7C	
XBCVERS	4		XBCXIXSM_XEYECATCH		
XBCVERSN	4	1		29	
XBCWLEN	B0	B0	XBCXIXSM_XGROUPTOKEN		
XBCXIXSM	28			88	
XBCXIXSM_KEYUSED_CONNECT			XBCXIXSM_XKEYS		
	AA	4		AA	
XBCXIXSM_KEYUSED_DATAALET			XBCXIXSM_XKEYS1		
	AB	40		AB	
XBCXIXSM_KEYUSED_ECB			XBCXIXSM_XMBOXNAME		
	AB	80		30	
XBCXIXSM_KEYUSED_EXIT			XBCXIXSM_XMEMBER		
	AA	10		40	
XBCXIXSM_KEYUSED_MSGATTR			XBCXIXSM_XMSGATTR		
	AA	1		2F	
XBCXIXSM_KEYUSED_MSGTOKEN			XBCXIXSM_XMSGATTR_EXPRESS		
	AA	2		2F	40
XBCXIXSM_KEYUSED_REQMBOX			XBCXIXSM_XMSGATTR_J3CONNECT		
	AA	20		2F	80
XBCXIXSM_KEYUSED_REQTOKEN			XBCXIXSM_XMSGTOKEN		
	AA	40		9C	
XBCXIXSM_KEYUSED_REQTYPE			XBCXIXSM_XREQMBOX		
	AA	80		60	
XBCXIXSM_KEYUSED_SEGTYPE			XBCXIXSM_XREQTOKEN		
	AA	8		58	
XBCXIXSM_XCONNECT			XBCXIXSM_XREQTYPE		
	80			A8	
XBCXIXSM_XDATA			XBCXIXSM_XREQTYPE_ASYNC		
	50			A8	80
XBCXIXSM_XDATAALET			XBCXIXSM_XREQTYPE_ASYNCACK		

\$XBCWORK Cross Reference

Name	Hex Offset	Hex Value	
	A8	20	
XBCXIXSM_XREQTYPE_COMM	A8	10	
XBCXIXSM_XREQTYPE_SYNC	A8	40	
XBCXIXSM_XRESPDALT	74		
XBCXIXSM_XRESPDATA	90		
XBCXIXSM_XRESPDLEN	94		
XBCXIXSM_XRSV00001	98		
XBCXIXSM_XSEGTYPE	A9		
XBCXIXSM_XSEGTYPE_ABORT	A9	8	
XBCXIXSM_XSEGTYPE_FIRST	A9	40	
XBCXIXSM_XSEGTYPE_LAST	A9	10	
XBCXIXSM_XSEGTYPE_MIDDLE	A9	20	
XBCXIXSM_XSEGTYPE_SINGLE	A9	80	
XBCXIXSM_XSYNCECB	A4		
XBCXIXSM_XUSERRC	8C		
XBCXIXSM_XVERSION	28		
XBCXIXSML	AB	84	
XBCXLIST	B0	28	00088
XBCXLST	28		

\$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 XCMPEWS 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
216	(D8)	CHARACTER	16	XCMMBNAM	XCF CMD Mail box name
232	(E8)	SIGNED	4	XCMXCECB (0)	XECB for XCF posts
252	(FC)	ADDRESS	4	XCMXBUFA	Address of current XREQ
256	(100)	ADDRESS	4	XCMXBUFP	Current data area pointer
260	(104)	SIGNED	4	XCMXBUFL	Current data area length
264	(108)	BITSTRING	8	XCMXTOKN	Current XCF message token
272	(110)	ADDRESS	4	XCMACKPT	Acknowledgement XREQ ptr
276	(114)	SIGNED	4	XCMERRCT	ABEND count
Comment					
List form macros for JESXCF services					
End of Comment					
280	(118)	DBL WORD	8	(0)	
280	(118)	BITSTRING	160	XCMIXLST	JESXCF list form macros
440	(1B8)	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 -93/06/10-<1>					
End of Comment					
280	(118)	SIGNED	2	M00M1097 (0)	IXZXIXAC-1
280	(118)	DBL WORD	8	XCMXIXAC (0)	++ IXZXIXAC PARM LIST
280	(118)	BITSTRING	1	XCMXIXAC_XVERSION	++ INPUT XVERSION
281	(119)	CHARACTER	6	XCMXIXAC_XEYECATCH	++ CONSTANT XEYECATCH
287	(11F)	BITSTRING	1	XCMXIXAC_XSTB	++ INPUT
287	(11F)	BITSTRING	0	XCMXIXAC_XSTB_NO	"B'10000000" ++ XSTB.NO KEYWORD
287	(11F)	BITSTRING	0	XCMXIXAC_XSTB_YES	"B'01000000" ++ XSTB.YES KEYWORD
288	(120)	BITSTRING	8	XCMXIXAC_XMSGTOKEN	++ XMSGTOKEN
296	(128)	ADDRESS	4	XCMXIXAC_XDATA	++ XDATA
300	(12C)	SIGNED	4	XCMXIXAC_XDATALEN	++ XDATALEN
304	(130)	SIGNED	4	XCMXIXAC_XUSERRC	++ XUSERRC
308	(134)	SIGNED	4	XCMXIXAC_XGROUPTOKEN	++ XGROUPTOKEN
312	(138)	SIGNED	4	XCMXIXAC_XSYSRC	++ XSYSRC
316	(13C)	SIGNED	4	XCMXIXAC_XSYSRSN	++ XSYSRSN
320	(140)	BITSTRING	1	XCMXIXAC_XKEYS	++ FIELD_LABEL
320	(140)	BITSTRING	0	XCMXIXAC_KEYUSED_DATA	"B'10000000" ++ KEYUSED.DATA KEYWORD
320	(140)	BITSTRING	0	XCMXIXAC_KEYUSED_DATALEN	"B'01000000" ++ KEYUSED.DATALEN KEYWORD
320	(140)	BITSTRING	0	XCMXIXAC_KEYUSED_USERRC	"B'00100000" ++ KEYUSED.USERRC KEYWORD
320	(140)	BITSTRING	0	XCMXIXAC_KEYUSED_SYSRC	"B'00010000" ++ KEYUSED.SYSRC KEYWORD
320	(140)	BITSTRING	0	XCMXIXAC_KEYUSED_SYSRSN	"B'00001000" ++ KEYUSED.SYSRSN KEYWORD
321	(141)	BITSTRING	1	XCMXIXAC_XMSGATTR	++ INPUT
321	(141)	BITSTRING	0	XCMXIXAC_XMSGATTR_J3CONNECT	"B'10000000" ++ XMSGATTR.J3CONNECT KEYWORD
321	(141)	BITSTRING	0	XCMXIXAC_XMSGATTR_EXPRESS	"B'01000000" ++ XMSGATTR.EXPRESS KEYWORD
321	(141)	X'2A	0	XCMXIXACL	"*-XCMXIXAC" ++ LENGTH OF PLIST
Comment					
IXZXIXAC-1					
End of Comment					
322	(142)	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					
280	(118)	SIGNED	2	M00M1098 (0)	IXZXIXMB-1
280	(118)	DBL WORD	8	XCMXIXMB (0)	++ IXZXIXMB PARM LIST
280	(118)	BITSTRING	1	XCMXIXMB_XVERSION	++ INPUT XVERSION
281	(119)	CHARACTER	6	XCMXIXMB_XEYECATCH	++ CONSTANT XEYECATCH
287	(11F)	CHARACTER	1	XCMXIXMB_XRSV0001	++ RESERVED XRSV0001
288	(120)	CHARACTER	16	XCMXIXMB_XMBOXNAME	++ XMBOXNAME
304	(130)	ADDRESS	4	XCMXIXMB_XPOSTXIT	++ XPOSTXIT
308	(134)	ADDRESS	4	XCMXIXMB_XPOSTDATA	++ XPOSTDATA
312	(138)	SIGNED	4	XCMXIXMB_XPOSTALET	++ XPOSTALET
316	(13C)	SIGNED	4	XCMXIXMB_XGROUPTOKEN	++ XGROUPTOKEN
320	(140)	BITSTRING	1	XCMXIXMB_XSYSEVENTS	++ FIELD_LABEL
320	(140)	BITSTRING	0	XCMXIXMB_XSYSEVENT_YES	"B'10000000" ++ XSYSEVENT.YES KEYWORD
320	(140)	BITSTRING	0	XCMXIXMB_XSYSEVENT_NO	"B'01000000" ++ XSYSEVENT.NO KEYWORD
320	(140)	X'29	0	XCMXIXMBL	**XCMXIXMB" ++ LENGTH OF PLIST
Comment					
IXZXIXMB-1					
End of Comment					
322	(142)	ADDRESS	2	(0)	Ensure area fits
Comment					
----- IXZXIXMD MF=(L,XCMXIXMD) Delete mailbox MACDATE -93/05/10-<1>					
End of Comment					
280	(118)	SIGNED	2	M00M1100 (0)	IXZXIXMD-1
280	(118)	DBL WORD	8	XCMXIXMD (0)	++ IXZXIXMD PARM LIST
280	(118)	BITSTRING	1	XCMXIXMD_XVERSION	++ INPUT XVERSION
281	(119)	CHARACTER	6	XCMXIXMD_XEYECATCH	++ CONSTANT XEYECATCH
287	(11F)	BITSTRING	1	XCMXIXMD_XSTB	++ INPUT
287	(11F)	BITSTRING	0	XCMXIXMD_XSTB_NO	"B'10000000" ++ XSTB.NO KEYWORD
287	(11F)	BITSTRING	0	XCMXIXMD_XSTB_YES	"B'01000000" ++ XSTB.YES KEYWORD
288	(120)	CHARACTER	16	XCMXIXMD_XMBOXNAME	++ XMBOXNAME
304	(130)	SIGNED	4	XCMXIXMD_XGROUPTOKEN	++ XGROUPTOKEN
304	(130)	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					
308	(134)	ADDRESS	2	(0)	Ensure area fits
Comment					
----- IXZXIXRM MF=(L,XCMXIXRM) Receive message MACDATE -93/05/10-<1>					
End of Comment					
280	(118)	SIGNED	2	M00M1101 (0)	IXZXIXRM-1
280	(118)	DBL WORD	8	XCMXIXRM (0)	++ IXZXIXRM PARM LIST
280	(118)	BITSTRING	1	XCMXIXRM_XVERSION	++ INPUT XVERSION
281	(119)	CHARACTER	6	XCMXIXRM_XEYECATCH	++ CONSTANT XEYECATCH
287	(11F)	CHARACTER	1	XCMXIXRM_XRSV0001	++ RESERVED XRSV0001
288	(120)	CHARACTER	16	XCMXIXRM_XMBOXNAME	++ XMBOXNAME
304	(130)	ADDRESS	4	XCMXIXRM_XDATA	++ XDATA
308	(134)	SIGNED	4	XCMXIXRM_XDATALEN	++ XDATALEN
312	(138)	BITSTRING	8	XCMXIXRM_XMSGTOKEN	++ XMSGTOKEN
320	(140)	SIGNED	4	XCMXIXRM_XGROUPTOKEN	++ XGROUPTOKEN
324	(144)	BITSTRING	1	XCMXIXRM_XMSGFETCH	++ INPUT
324	(144)	BITSTRING	0	XCMXIXRM_XMSGFETCH_ALL	"B'10000000" ++ XMSGFETCH.ALL KEYWORD
324	(144)	BITSTRING	0	XCMXIXRM_XMSGFETCH_MESSAGES	"B'01000000" ++ XMSGFETCH.MESSAGES KEYWORD
324	(144)	BITSTRING	0	XCMXIXRM_XMSGFETCH_SYSEVENT	"B'00100000" ++ XMSGFETCH.SYSEVENT KEYWORD
324	(144)	BITSTRING	0	XCMXIXRM_XMSGFETCH_ACKS	"B'00010000" ++ XMSGFETCH.ACKS KEYWORD
325	(145)	BITSTRING	1	XCMXIXRM_XKEYS	++ FIELD_LABEL
325	(145)	BITSTRING	0	XCMXIXRM_KEYUSED_MSGFETCH	"B'10000000" ++ KEYUSED.MSGFETCH KEYWORD
325	(145)	X'2E	0	XCMXIXRML	**XCMXIXRM" ++ LENGTH OF PLIST
Comment					
IXZXIXRM-1					
End of Comment					
326	(146)	ADDRESS	2	(0)	Ensure area fits
Comment					
\$SCAN output work area					
End of Comment					
440	(1B8)	CHARACTER	1024	XCMSCANW	SCAN message work area
1464	(5B8)	DBL WORD	8	(0)	Force double-word alignment
1464	(5B8)	X'E0	0	XCMPCEWS	**PCEWORK" Length of work area

\$XCMWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
M00M1097	118			13C	
M00M1098	118		XCMXIXMB_XMBOXNAME	120	
M00M1100	118			120	
M00M1101	118		XCMXIXMB_XPOSTALET		
XCMACKPT	110			138	
XCMERRCT	114		XCMXIXMB_XPOSTDATA		
XCMIXEND	1B8			134	
XCMIXLST	118		XCMXIXMB_XPOSTXIT		
XCMMBNAM	D8	E2E8E2D1		130	
XCMPCEWS	5B8	E0	XCMXIXMB_XRSV0001		
XCMSCANW	1B8			11F	
XCMXBUFA	FC		XCMXIXMB_XSYSEVENT_NO		
XCMXBUFL	104			140	40
XCMXBUFP	100		XCMXIXMB_XSYSEVENT_YES		
XCMXCECB	E8			140	80
XCMXIXAC	118		XCMXIXMB_XSYSEVENTS		
XCMXIXAC_KEYUSED_DATA				140	
	140	80	XCMXIXMB_XVERSION		
XCMXIXAC_KEYUSED_DATALEN				118	
	140	40	XCMXIXMBL	140	29
XCMXIXAC_KEYUSED_SYSRC			XCMXIXMD	118	
	140	10	XCMXIXMD_XEYECATCH		
XCMXIXAC_KEYUSED_SYSRSN				119	
	140	8	XCMXIXMD_XGROUPTOKEN		
XCMXIXAC_KEYUSED_USERRC				130	
	140	20	XCMXIXMD_XMBOXNAME		
XCMXIXAC_XDATA				120	
	128		XCMXIXMD_XSTB		
XCMXIXAC_XDATALEN				11F	
	12C		XCMXIXMD_XSTB_NO		
XCMXIXAC_XEYECATCH				11F	80
	119		XCMXIXMD_XSTB_YES		
XCMXIXAC_XGROUPTOKEN				11F	40
	134		XCMXIXMD_XVERSION		
XCMXIXAC_XKEYS				118	
	140		XCMXIXMDL	130	1C
XCMXIXAC_XMSGATTR			XCMXIXRM	118	
	141		XCMXIXRM_KEYUSED_MSGFETCH		
XCMXIXAC_XMSGATTR_EXPRESS				145	80
	141	40	XCMXIXRM_XDATA		
XCMXIXAC_XMSGATTR_J3CONNECT				130	
	141	80	XCMXIXRM_XDATALEN		
XCMXIXAC_XMSGTOKEN				134	
	120		XCMXIXRM_XEYECATCH		
XCMXIXAC_XSTB				119	
	11F		XCMXIXRM_XGROUPTOKEN		
XCMXIXAC_XSTB_NO				140	
	11F	80	XCMXIXRM_XKEYS		
XCMXIXAC_XSTB_YES				145	
	11F	40	XCMXIXRM_XMBOXNAME		
XCMXIXAC_XSYSRC				120	
	138		XCMXIXRM_XMSGFETCH		
XCMXIXAC_XSYSRSN				144	
	13C		XCMXIXRM_XMSGFETCH_ACKS		
XCMXIXAC_XUSERRC				144	10
	130		XCMXIXRM_XMSGFETCH_ALL		
XCMXIXAC_XVERSION				144	80
	118		XCMXIXRM_XMSGFETCH_MESSAGES		
XCMXIXACL	141	2A		144	40
XCMXIXMB	118		XCMXIXRM_XMSGFETCH_SYSEVENT		
XCMXIXMB_XEYECATCH				144	20
	119		XCMXIXRM_XMSGTOKEN		
XCMXIXMB_XGROUPTOKEN				138	

\$XCMWORK Cross Reference

Name	Hex Offset	Hex Value
XCMXIXRM_XRSV0001	11F	
XCMXIXRM_XVERSION	118	
XCMXIXRML	145	2E
XCMXTOKN	108	

\$XECB Programming Interface Information

Programming Interface Information

\$XECB

End of Programming Interface Information

\$XECB Heading Information

Common Name: JES2 Extended ECB DSECT
Macro ID: \$XECB
DSECT Name: XECB
Owning Component: JES2 (SC1BH)
Storage Attributes: Subpool: Any
 Key: 1
 Residency: Anywhere
Size: See XECBLEN
Created by: Any PCE
Pointed to by: \$EXTECBQ FIELD OF THE \$HCT 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.
Function: This control block allows JES2 to have \$PCEs which may issue \$WAITs for MVS posts. Using the extended ECB facility of MVS, the JES2 dispatcher will locate and \$POST the \$PCE when the MVS POST is issued.

\$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	A(PCE TO DISPATCH ON MVS POST)
8	(8)	BITSTRING	12	XECBCHNS (0)	NEXT 3 FIELDS STAY TOGETHER
8	(8)	SIGNED	4	XECBQNXT	A(NEXT XECB) ON \$XECBQ
12	(C)	SIGNED	4	XECBPSTC	POSTED ECB CHAINING FIELD
16	(10)	SIGNED	4	XECBQPRV	A(PREVIOUS XECB) ON \$XECBQ
16	(10)	X'14	0	XECBLEN	"*-XECB" EXTENDED ECB STRUCTURE LENGTH

\$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
216	(D8)	BITSTRING	636		\$RDRWORK LEN (FOR HASPRJCS)
852	(354)	SIGNED	4	XEQOFFST	SJB QUEUE TABLE OFFSET
856	(358)	SIGNED	4	XEQXPARM (0)	EXIT PARM LIST
856	(358)	SIGNED	4	XEQXSJB	EXIT PARM ONE
860	(35C)	SIGNED	4	XEQNXTTK	NEXT CKPT TOKEN TO \$CHECK
864	(360)	SIGNED	4	XEQLSTTK	LAST CKPT TOKEN \$CHECKED
868	(364)	SIGNED	4	XEQTOPST	CKPT TOKEN TO BE POSTED
872	(368)	SIGNED	4	XEQXECB (0)	HASPXEQ SVJ lock ENQ ECB
892	(37C)	SIGNED	4	XEQENQST (0)	True start of ENQ list

Comment

MACRO-DATE = 95/03/03

End of Comment

892	(37C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
892	(37C)	ADDRESS	4		PREFIX - ECB ADDRESS
892	(37C)	X'80	0	XEQENQPL	*** X02113
896	(380)	ADDRESS	1		PELLAST flag byte. X02113
897	(381)	ADDRESS	1		PELMILEN - RNAME length.
898	(382)	BITSTRING	1		

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
PELFLAG - flag byte 2.					
End of Comment					
899	(383)	ADDRESS	1		PELRET - return code byte.
900	(384)	ADDRESS	4		QNAME ADDRESS
904	(388)	ADDRESS	4		RNAME ADDRESS
904	(388)	X'7C 00010'	0	XEQENQL	"XEQENQST,*-XEQENQST" ENQ parm length, IPCS use
908	(38C)	SIGNED	4	XEQDEQST (0)	True start of DEQ list
Comment					
MACRO-DATE = 05/05/95					
End of Comment					
908	(38C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
908	(38C)	X'8C	0	XEQDEQPL	*** X02113
908	(38C)	ADDRESS	1		PELLAST flag byte. X02113
909	(38D)	ADDRESS	1		PELMILEN - RNAME length.
910	(38E)	BITSTRING	1		
Comment					
PELFLAG - flag byte 2.					
End of Comment					
911	(38F)	ADDRESS	1		PELRET - return code byte.
912	(390)	ADDRESS	4		QNAME ADDRESS
916	(394)	ADDRESS	4		RNAME ADDRESS
916	(394)	X'8C 0000C'	0	XEQDEQL	"XEQDEQST,*-XEQDEQST" DEQ parm length, IPCS use
920	(398)	CHARACTER	80	XEQMSGWA	\$WTO work area
1000	(3E8)	ADDRESS	4	XEQPARAM	NODE TABLE ADDRESS
1004	(3EC)	ADDRESS	4		CONTROL BLOCK ADDRESS
1008	(3F0)	ADDRESS	4		CLASS LIST ADDRESS
1012	(3F4)	ADDRESS	4		ADDRESS OF JQE
1016	(3F8)	ADDRESS	1		CLASS LIST LENGTH
1017	(3F9)	ADDRESS	1		QUEUE TYPE SPECIFIED
1018	(3FA)	ADDRESS	1		WORK SELECTION TYPE FLAG
1019	(3FB)	ADDRESS	1		RESERVED FOR FUTURE USE
1019	(3FB)	X'E8 00014'	0	XEQLST	"XEQPARAM,*-XEQPARAM" QGET PARAMETER LIST STORAGE
1020	(3FC)	CHARACTER	2	XEQJOBSL	FAKE JOB CARD SLASHES
1022	(3FE)	CHARACTER	8	XEQJOBNM	Fake job card name in RJCS, also used as job name work area in HASPXEQ
1030	(406)	CHARACTER	12	XEQJOBFN	FAKE JOB CARD FUNCTION NAME
1042	(412)	BITSTRING	1	XEQSJBF1	SJBFLG1 after SJB is freed
1043	(413)	BITSTRING	1	XEQSJBF2	SJBFLG2 after SJB is freed
1044	(414)	BITSTRING	1	XEQFLAG1	Flags
1044	(414)	BITSTRING	0	XEQ1NDUP	"B'10000000" Skip release of jobs with duplicate jobnames
1044	(414)	BITSTRING	0	XEQ1SCAN	"B'01000000" Do scan of inits
1044	(414)	BITSTRING	0	XEQ1X14	"B'00100000" Exit 14 enabled
1044	(414)	BITSTRING	0	XEQ1NOPT	"B'00010000" Don't optimize class list/ service class list
1045	(415)	CHARACTER	7	XEQRSV1	Reserved for future use
1056	(420)	DBL WORD	8	XEQWTTIM	Time of last wait at start of \$QGET
1064	(428)	BITSTRING	36	XEQCLLST	Class list constructed for \$QGET
1100	(44C)	BITSTRING	256	XEQCLMSK	Class exclusion mask for classes with no work
1356	(54C)	BITSTRING	4		Reserved
1360	(550)	DBL WORD	8	XEQPHWAI	TOD when last exit from \$PHASP
1368	(558)	CHARACTER	8	XEQJNAME	Jobname from job card
1376	(560)	BITSTRING	1	XEQJQEF7	Copy of JQEFLAG7
1377	(561)	BITSTRING	3		Reserved for future use
1380	(564)	ADDRESS	4	XEQXWM	Queue head for sevice class optimization elements

\$XEQWORK Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1384	(568)	DBL WORD	8	(0)	ALIGN XEQ WORK
1384	(568)	X'90	0	XEQPCEWS	"*-PCEWORK" XEQ PCE WORK AREA LENGTH

\$XEQWORK Cross Reference

Name	Hex Offset	Hex Value	
XEQCLLST	428		
XEQCLMSK	44C		
XEQDEQL	394	8C	0000C
XEQDEQPL	38C	8C	
XEQDEQST	38C		
XEQENQL	388	7C	00010
XEQENQPL	37C	80	
XEQENQST	37C		
XEQFLAG1	414		
XEQJNAME	558		
XEQJOBFN	406		
XEQJOBNM	3FE		
XEQJOBSL	3FC		
XEQJQEF7	560		
XEQLST	3FB	E8	00014
XEQLSTTK	360		
XEQMSGWA	398		
XEQNXTTK	35C		
XEQOFFST	354		
XEQPARM	3E8		
XEQPCEWS	568	90	
XEQPHWAI	550		
XEQRSV1	415		
XEQSJB1	412		
XEQSJB2	413		
XEQTOPST	364		
XEQWTTIM	420		
XEQXECB	368		
XEQXPARM	358		
XEQXSJB	358		
XEQXWM	564		
XEQ1NDUP	414	80	
XEQ1NOPT	414	10	
XEQ1SCAN	414	40	
XEQ1X14	414	20	

\$XFMWORK Programming Interface Information

Programming Interface Information

\$XFMWORK

End of Programming Interface Information

\$XFMWORK Heading Information

Common Name: HASP SPOOL TRANSFER I/O MGR WORK AREA
Macro ID: \$XFMWORK
DSECT Name: PCE
Owning Component: JES2 (SC1BH)

\$XFMWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP SPOOL TRANSFER I/O MANAGER
216	(D8)	BITSTRING	12	XFMSCTQE	TQE FOR TERMIN. INTERVAL SCANS
228	(E4)	ADDRESS	4	XFMSCPTR	POINTER TO NEXT SCAN ELEMENT
232	(E8)	ADDRESS	4	XFMBUFQ	QUEUE FOR REORDERED COMPLETE BUFFERS
236	(EC)	ADDRESS	4	XFMSCDCT	SAVE AREA FOR SUBT SCAN DCT PNTR
240	(F0)	DBL WORD	8	XFMCTIME	WORK AREA FOR TERM INTERVL SCAN
248	(F8)	BITSTRING	1	XFMMASK	COPY OF LOW ORDER BYTE OF \$STIMASK
249	(F9)	BITSTRING	1	XFMFLAG1	TIMER ACTIVE FLAG
249	(F9)	BITSTRING	0	XFM1TACT	"X'FF" TIMER IS ACTIVE
		....		XFM1EXP	"X'00" TIMER IS EXPIRED
250	(FA)	BITSTRING	1	XFMFLAG2	SECOND FLAG BYTE
250	(FA)	BITSTRING	0	XFM2STRT	"B'10000000" TRANS/RECEIVER BEEN STARTED
251	(FB)	CHARACTER	125	XFMMMSG	AREA FOR BUILDING MESSAGES
251	(FB)	X'A0	0	XFMLEN	"*-PCEWORK" JOB RECEIVER PCE WORK AREA LENGTH

\$XFMWORK Cross Reference

Name	Hex Offset	Hex Value
XFMBUFQ	E8	
XFMCTIME	F0	
XFMFLAG1	F9	
XFMFLAG2	FA	
XFMLEN	FB	A0
XFMMASK	F8	
XFMMMSG	FB	
XFMSCDCT	EC	
XFMSCPTR	E4	
XFMSCTQE	D8	
XFM1EXP	F9	
XFM1TACT	F9	FF
XFM2STRT	FA	80

\$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
0	(0)	BITSTRING	0	XITENBLD	"X'80" EXIT IS ENABLED
0	(0)	BITSTRING	0	XITTRACE	"X'40" EXIT IS TRACING
0	(0)	X'C0	0	XITEBLTR	"XITENBLD+XITTRACE" Enabled and tracing
0	(0)	BITSTRING	0	XITENTDS	"X'20" Exit was entered while it was disabled
0	(0)	BITSTRING	0	XITBPD	"X'08" Bypass Exit point defined check for Exit point in HASPFSSM
0	(0)	BITSTRING	0	XITBSPL	"X'04" Exit has rtns which reside in modules which bypassed the MVS SPLEVEL check
0	(0)	BITSTRING	0	XITCMN	"X'02" EXIT MUST BE IN CSA/LPA
0	(0)	BITSTRING	0	XITDEF	"X'01" EXIT IS DEFINED
0	(0)	X'81	0	XITDENBL	"XITDEF+XITENBLD" EXIT IS DEFINED AND ENABLED
1	(1)	ADDRESS	1	XIT#RTNS	NUMBER OF EXIT ROUTINES
2	(2)	ADDRESS	2	XITUSCNT	EXIT USE COUNT
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	3		Reserved for future use
9	(9)	X'C	0	XITLNGTH	**"XIT" LENGTH OF DSECT
0	(0)	CHARACTER	12	XITE	XIT entry

\$XIT Cross Reference

\$XIT Cross Reference

Name	Hex Offset	Hex Value
XIT#RTNS	1	
XITBPD	0	8
XITBSPL	0	4
XITCMN	0	2
XITDEF	0	1
XITDENBL	0	81
XITE	0	
XITEBLTR	0	C0
XITENBLD	0	80
XITENTDS	0	20
XITENVIR	8	
XITFLAGS	0	
XITLNTH	9	C
XITTRACE	0	40
XITUSCNT	2	
XITXRTAD	4	

\$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 XRENXMAS recovery routine in HASPXCF).
 XCFJOIN routine in HASPXCF for XMAQENT.

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

Serialization: None required

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

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

\$XMAS Map

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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
59	(3B)	BITSTRING	0	XMA3SYSG	"B'01000000" In XCFSGONE routine
59	(3B)	BITSTRING	0	XMA3MEMS	"B'00100000" In XCFEMEMS routine
59	(3B)	BITSTRING	0	XMA3USRS	"B'00010000" In XCFEUSRS routine
59	(3B)	BITSTRING	0	XMA3JOIN	"B'00001000" In XCFJOIN routine
59	(3B)	BITSTRING	0	XMA3USTA	"B'00000100" In XCFUSTAT routine
59	(3B)	BITSTRING	0	XMA3LEAV	"B'00000010" In XCFLEAVE routine
59	(3B)	BITSTRING	0	XMA3QUER	"B'00000001" In XCFQSTAT routine
60	(3C)	BITSTRING	1	XMAFLAG4	Flag is used for footprint
60	(3C)	BITSTRING	0	XMA4DQ	"B'10000000" XCFMAIN process requests
60	(3C)	BITSTRING	0	XMA4MAPE	"B'01000000" XCFMAPEV maps event to QSE XCFDQ thru XCFDOR labels
60	(3C)	BITSTRING	0	XMA4PURG	"B'00100000" XCFPURG delete old members
60	(3C)	BITSTRING	0	XMA4DELT	"B'00010000" XCFDELET delete old members
60	(3C)	BITSTRING	0	XMA4MQER	"B'00001000" In XCFMSTAT routine
60	(3C)	BITSTRING	0	XMA4MEMN	"B'00000100" In XCFMEMN routine
60	(3C)	BITSTRING	0	XMA4XMQU	"B'00000010" In XCFXMAQU routine
61	(3D)	BITSTRING	1	XMAFLAG5	Flag for service routines
61	(3D)	BITSTRING	0	XMA5ESYS	"B'10000000" XCFMAPEV has updated a QSE for automatic ESYS
62	(3E)	BITSTRING	1	XMAFLAG6	Flag marks blocks in error
62	(3E)	BITSTRING	0	XMA6XMAS	"B'10000000" \$XMAS has error fields
62	(3E)	BITSTRING	0	XMA6XMAR	"B'01000000" XRQ chain from XMA has err
62	(3E)	BITSTRING	0	XMA6XCFR	"B'00100000" XRQ chain from PCE has err
62	(3E)	BITSTRING	0	XMA6FCEL	"B'00010000" XRQ cell must be freed
63	(3F)	BITSTRING	1		Reserved for IBM use
64	(40)	SIGNED	4	(0)	
64	(40)	BITSTRING	20	XMAXECB	XECB POSTed on events sent from group exit.
84	(54)	SIGNED	4		Reserved for IBM use
88	(58)	SIGNED	4	XMAREQ	ADDR XCF REQUEST QUEUE
88	(58)	X'5C	0	XMAVRALN	"*-XMA" Size of area of XMAS to be included in VRA
92	(5C)	SIGNED	4		Reserved for IBM use
96	(60)	BITSTRING	4	XMASYTOK (0)	System id/token for MVS
96	(60)	BITSTRING	1	XMASNUM	System slot number
97	(61)	BITSTRING	3		System number
100	(64)	CHARACTER	8	XMASYSNM	System name except in the event of IXCJOIN failure (XMA1JOIN off) then null
108	(6C)	CHARACTER	8	XMAPLXNM	Sysplex name except in the event of IXCJOIN failure (XMA1JOIN off) then null
116	(74)	SIGNED	4	XMAPTIME	Last entry to XCFPURG
120	(78)	SIGNED	4		Reserved for IBM use
124	(7C)	CHARACTER	4	XMASIDNM	SID name work area for messages
128	(80)	SIGNED	4	XMAMADDR	Message address
132	(84)	SIGNED	4	XMAMLEN	Message length
136	(88)	SIGNED	4	XMAMTOKE (2)	JESXCF Message token
144	(90)	DBL WORD	8	XMAMTOKN	XCF Member token
152	(98)	BITSTRING	4	XMAMEMUP	MAS member up table
156	(9C)	BITSTRING	4	XMANPMUP	NPM member up table
160	(A0)	SIGNED	4	XMAAXRQ	Active XRQ being processed
164	(A4)	BITSTRING	64	XMAQDATA	Work area for XMAQENT
228	(E4)	SIGNED	4	XMADIAG	JESXCF Diagnostic area
232	(E8)	DBL WORD	8		Reserved for future IBM use

Comment

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

End of Comment

240	(F0)	SIGNED	4	XMABLDM (0)	Control block ID
244	(F4)	BITSTRING	4		Console ID
248	(F8)	ADDRESS	4		Address of the CART
252	(FC)	ADDRESS	4		Pointer for JOBID
256	(100)	ADDRESS	4		Control block address
260	(104)	ADDRESS	4		Display routine address
264	(108)	ADDRESS	4	(6)	6 word work area

\$XMAS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
288	(120)	BITSTRING	2		ROUT code for Message
290	(122)	BITSTRING	2		Not used
292	(124)	CHARACTER	4		Message ID
296	(128)	CHARACTER	1		Separator character
297	(129)	ADDRESS	1		Flag byte 1
298	(12A)	ADDRESS	1		'DISPER'
299	(12B)	ADDRESS	1		Flag byte 2
300	(12C)	BITSTRING	16		Not used
316	(13C)	ADDRESS	4	(0)	Ensure multiple of 4
316	(13C)	ADDRESS	2	(0)	
0	(0)	X'4C	0	XMABLDML	**XMABLDM" Size of \$BLDMSG L 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

320	(140)	DBL WORD	8	(0)	
320	(140)	BITSTRING	1	XMAXUSST	HASPCXF USER STATE FIELD

Comment

End of the XMAXUS field.

End of Comment

352	(160)	SIGNED	4	XMAMEMST	Anchor for answer area obtained to IXCQUERY all members in SYSZJES2 group
356	(164)	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 HASPCXF module. Also, fields other than the MVS fields that are to be accessed outside of this module, should precede this comment.

End of Comment

360	(168)	BITSTRING	16	XMAOTHMN	Work area to build and contain other member names
376	(178)	BITSTRING	8	XMAPLIWK	Sysplex id work area
384	(180)	SIGNED	4	XMAIFALN	Length of answer area
388	(184)	ADDRESS	4	XMAIFAA	IXZXIXIF answer area pointer
392	(188)	DBL WORD	8	(0)	Double word alignment

Comment

IXCQUERY MF=(L, XMAMFLQR) IXCQUERY list area
MACDATE -11/16/99-<2>

End of Comment

0	(0)	X'88	0	M00M1104	"XMAMFLQR" ++ IXCQUERY NAME
392	(188)	DBL WORD	8	XMAMFLQR (0)	++ IXCQUERY PARM LIST
392	(188)	BITSTRING	1	XMAMFLQR_XVERSION	++ INPUT XVERSION
393	(189)	BITSTRING	1	XMAMFLQR_XREQTYPE	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
393	(189)	X'10	0	XMAMFLQR_XREQTYPE_IMMEDIATE	++ XREQTYPE "16" ++ XREQTYPE.IMMEDIATE KEYWORD
393	(189)	X'5	0	XMAMFLQR_XREQTYPE_DEFER	"5" ++ XREQTYPE.DEFER KEYWORD
394	(18A)	BITSTRING	1	XMAMFLQR_XREQINFO	++ INPUT
394	(18A)	BITSTRING	0	XMAMFLQR_XREQINFO_GROUP	"B'10000000" ++ XREQINFO.GROUP KEYWORD
394	(18A)	BITSTRING	0	XMAMFLQR_XREQINFO_SYSPLEX	"B'01000000" ++ XREQINFO.SYSPLEX KEYWORD
394	(18A)	BITSTRING	0	XMAMFLQR_XREQINFO_CF	"B'00100000" ++ XREQINFO.CF KEYWORD
394	(18A)	BITSTRING	0	XMAMFLQR_XREQINFO_STR	"B'00010000" ++ XREQINFO.STR KEYWORD
394	(18A)	BITSTRING	0	XMAMFLQR_XREQINFO_CF_ALLDATA	"B'00001000" ++ XREQINFO.CF_ALLDATA KEYWORD
394	(18A)	BITSTRING	0	XMAMFLQR_XREQINFO_STR_ALLDATA	"B'00000100" ++ XREQINFO.STR_ALLDATA KEYWORD
394	(18A)	BITSTRING	0	XMAMFLQR_XREQINFO_ARMSTATUS	"B'00000010" ++ XREQINFO.ARMSTATUS KEYWORD
394	(18A)	BITSTRING	0	XMAMFLQR_XREQINFO_ARMS_ALLDATA	"B'00000001" ++ XREQINFO.ARMS_ALLDATA KEYWORD
395	(18B)	BITSTRING	1	XMAMFLQR_XQUAALEVEL	++ XQUAALEVEL
396	(18C)	ADDRESS	4	XMAMFLQR_XANSAREA_ADDR	++ ADDR XANSAREA
400	(190)	SIGNED	4	XMAMFLQR_XANSAREA_ALET	++ ALET XANSAREA
404	(194)	SIGNED	4	XMAMFLQR_XANSLEN	++ XANSLEN
408	(198)	CHARACTER	8	XMAMFLQR_XGRPNAME	++ XGRPNAME
416	(1A0)	CHARACTER	16	XMAMFLQR_XMEMNAME	++ XMEMNAME
416	(1A0)	X'B0	0	XMAMFLQR_PL_END	*** ++ END OF BASE PLIST
416	(1A0)	BITSTRING	8	XMAMFLQR_XMEMTOKEN	++ XMEMTOKEN
408	(198)	CHARACTER	8	XMAMFLQR_XCFNAME	++ XCFNAME
416	(1A0)	CHARACTER	16	XMAMFLQR_XSTRNAME	++ XSTRNAME
432	(1B0)	X'28	0	XMAMFLQRL	**XMAMFLQR" ++ LENGTH OF PLIST

Comment

IXCQUERY-2

End of Comment

432	(1B0)	DBL WORD	8	(0)	Double word alignment
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Comment

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

End of Comment

0	(0)	X'B0	0	M00M1106	"XMAMFLAT" ++ IXZXIXAT NAME
432	(1B0)	DBL WORD	8	XMAMFLAT (0)	++ IXZXIXAT PARM LIST
432	(1B0)	BITSTRING	1	XMAMFLAT_XVERSION	++ INPUT XVERSION
433	(1B1)	CHARACTER	6	XMAMFLAT_XEYECATCH	++ CONSTANT XEYECATCH

\$XMAS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
439	(1B7)	CHARACTER	1	XMAMFLAT_XRSV0001	++ RESERVED XRSV0001
440	(1B8)	CHARACTER	8	XMAMFLAT_XGROUP	++ XGROUP
448	(1C0)	CHARACTER	16	XMAMFLAT_XMEMBER	++ XMEMBER
464	(1D0)	CHARACTER	8	XMAMFLAT_XRELEASE	++ XRELEASE
472	(1D8)	SIGNED	4	XMAMFLAT_XMAINTLVL	++ CONSTANT XMAINTLVL
476	(1DC)	SIGNED	4	XMAMFLAT_XGROUPTOKEN	++ XGROUPTOKEN
480	(1E0)	BITSTRING	1	XMAMFLAT_XFLAG1	++ FIELD_LABEL
480	(1E0)	BITSTRING	0	XMAMFLAT_XWHICHJES_JES2	"B'10000000" ++ XWHICHJES.JES2 KEYWORD
480	(1E0)	BITSTRING	0	XMAMFLAT_XWHICHJES_JES3	"B'01000000" ++ XWHICHJES.JES3 KEYWORD
480	(1E0)	BITSTRING	0	XMAMFLAT_XWHICHJES_J3FSS	"B'00100000" ++ XWHICHJES.J3FSS KEYWORD
480	(1E0)	BITSTRING	0	XMAMFLAT_XWHICHJES_INIT	"B'00010000" ++ XWHICHJES.INIT KEYWORD
480	(1E0)	BITSTRING	0	XMAMFLAT_XWHICHJES_COMMON	"B'00001000" ++ XWHICHJES.COMMON KEYWORD
480	(1E0)	BITSTRING	0	XMAMFLAT_XWHICHJES_J3CIFSS	"B'00000100" ++ XWHICHJES.J3CIFSS KEYWORD
481	(1E1)	BITSTRING	1	XMAMFLAT_XFLAG2	++ FIELD_LABEL
481	(1E1)	BITSTRING	0	XMAMFLAT_XJ3CONNECT_NO	"B'10000000" ++ XJ3CONNECT.NO KEYWORD
481	(1E1)	BITSTRING	0	XMAMFLAT_XJ3CONNECT_YES	"B'01000000" ++ XJ3CONNECT.YES KEYWORD
482	(1E2)	CHARACTER	2	XMAMFLAT_XRSV0002	++ RESERVED XRSV0002
484	(1E4)	SIGNED	4	XMAMFLAT_XDIAG	++ XDIAG
488	(1E8)	CHARACTER	8	XMAMFLAT_XLINKPARMS	++ FIELD_LABEL XLINKPARMS
488	(1E8)	X'40	0	XMAMFLATL	** -XMAMFLAT" ++ LENGTH OF PLIST

Comment

IXZXIXAT-6

End of Comment

496	(1F0)	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'F0	0	M00M1107	"XMAMFLDT" ++ IXZXIXDT NAME
496	(1F0)	DBL WORD	8	XMAMFLDT (0)	++ IXZXIXDT PARM LIST
496	(1F0)	BITSTRING	1	XMAMFLDT_XVERSION	++ INPUT XVERSION
497	(1F1)	CHARACTER	6	XMAMFLDT_XEYECATCH	++ CONSTANT XEYECATCH
503	(1F7)	CHARACTER	1	XMAMFLDT_XRSV0001	++ RESERVED XRSV0001
504	(1F8)	ADDRESS	4	XMAMFLDT_XGROUPTOKEN	++ XGROUPTOKEN
508	(1FC)	CHARACTER	8	XMAMFLDT_XLINKPARMS	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
508	(1FC)	X'14	0	XMAMFLDTL	++ FIELD_LABEL XLINKPARMS "-XMAMFLDT" ++ LENGTH OF PLIST
Comment					
IXZXIXDT-1					
End of Comment					
520	(208)	DBL WORD	8	(0)	Double word alignment
Comment					
IXZXIXMB MF=(L, XMAMFLMB) IXZXIXMB list area MACDATE -93/05/10-<1>					
End of Comment					
520	(208)	SIGNED	2	M00M1108 (0)	IXZXIXMB-1
520	(208)	DBL WORD	8	XMAMFLMB (0)	++ IXZXIXMB PARM LIST
520	(208)	BITSTRING	1	XMAMFLMB_XVERSION	++ INPUT XVERSION
521	(209)	CHARACTER	6	XMAMFLMB_XEYECATCH	++ CONSTANT XEYECATCH
527	(20F)	CHARACTER	1	XMAMFLMB_XRSV0001	++ RESERVED XRSV0001
528	(210)	CHARACTER	16	XMAMFLMB_XMBOXNAME	++ XMBOXNAME
544	(220)	ADDRESS	4	XMAMFLMB_XPOSTXIT	++ XPOSTXIT
548	(224)	ADDRESS	4	XMAMFLMB_XPOSTDATA	++ XPOSTDATA
552	(228)	SIGNED	4	XMAMFLMB_XPOSTALET	++ XPOSTALET
556	(22C)	SIGNED	4	XMAMFLMB_XGROUPTOKEN	++ XGROUPTOKEN
560	(230)	BITSTRING	1	XMAMFLMB_XSYSEVENTS	++ FIELD_LABEL
560	(230)	BITSTRING	0	XMAMFLMB_XSYSEVENT_YES	"B'10000000" ++ XSYSEVENT.YES KEYWORD
560	(230)	BITSTRING	0	XMAMFLMB_XSYSEVENT_NO	"B'01000000" ++ XSYSEVENT.NO KEYWORD
560	(230)	X'29	0	XMAMFLMBL	"*-XMAMFLMB" ++ LENGTH OF PLIST
Comment					
IXZXIXMB-1					
End of Comment					
564	(234)	SIGNED	4		Reserved for IBM use
568	(238)	DBL WORD	8	(0)	Double word alignment
Comment					
IXZXIXUS MF=(L, XMAMFLUS) IXZXIXUS list area MACDATE -93/05/10-<1>					
End of Comment					
568	(238)	SIGNED	2	M00M1109 (0)	IXZXIXUS-1
568	(238)	DBL WORD	8	XMAMFLUS (0)	++ IXZXIXUS PARM LIST
568	(238)	BITSTRING	1	XMAMFLUS_XVERSION	++ INPUT XVERSION
569	(239)	CHARACTER	6	XMAMFLUS_XEYECATCH	++ CONSTANT XEYECATCH
575	(23F)	CHARACTER	1	XMAMFLUS_XRSV0001	++ RESERVED XRSV0001

\$XMAS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
576	(240)	CHARACTER	32	XMAMFLUS_XUSTATE	++ XUSTATE
608	(260)	SIGNED	4	XMAMFLUS_XGROUPTOKEN	++ XGROUPTOKEN
612	(264)	BITSTRING	1	XMAMFLUS_XUPDTYPE	++ INPUT
612	(264)	BITSTRING	0	XMAMFLUS_XUPDTYPE_REPLACE	"B'10000000" ++ XUPDTYPE.REPLACE KEYWORD
612	(264)	BITSTRING	0	XMAMFLUS_XUPDTYPE_AND	"B'01000000" ++ XUPDTYPE.AND KEYWORD
612	(264)	BITSTRING	0	XMAMFLUS_XUPDTYPE_OR	"B'00100000" ++ XUPDTYPE.OR KEYWORD
612	(264)	X'2D	0	XMAMFLUSL	**XMAMFLUS" ++ LENGTH OF PLIST
Comment					
IXZXIXUS-1					
End of Comment					
616	(268)	SIGNED	4		Reserved for IBM use
624	(270)	DBL WORD	8	(0)	Double word alignment
Comment					
IXZXIXIF MF=(L, XMAMFLIF) IXZXIXIF list area MACDATE -96/10/24-<2>					
End of Comment					
0	(0)	X'70	0	M00M1110	"XMAMFLIF" ++ IXZXIXIF NAME
624	(270)	DBL WORD	8	XMAMFLIF (0)	++ IXZXIXIF PARM LIST
624	(270)	BITSTRING	1	XMAMFLIF_XVERSION	++ INPUT XVERSION
625	(271)	CHARACTER	6	XMAMFLIF_XEYECATCH	++ CONSTANT XEYECATCH
631	(277)	CHARACTER	1	XMAMFLIF_XRSV0001	++ RESERVED XRSV0001
632	(278)	SIGNED	4	XMAMFLIF_XGROUPTOKEN	++ XGROUPTOKEN
636	(27C)	CHARACTER	16	XMAMFLIF_XREQMBOX	++ XREQMBOX
652	(28C)	CHARACTER	8	XMAMFLIF_XREQTOKEN	++ XREQTOKEN
660	(294)	ADDRESS	4	XMAMFLIF_XANSAREA	++ XANSAREA
664	(298)	SIGNED	4	XMAMFLIF_XANSLEN	++ XANSLEN
668	(29C)	BITSTRING	1	XMAMFLIF_XINFOLVL	++ INPUT
668	(29C)	BITSTRING	0	XMAMFLIF_XINFOLVL_GROUP	"B'10000000" ++ XINFOLVL.GROUP KEYWORD
668	(29C)	BITSTRING	0	XMAMFLIF_XINFOLVL_MEMBER	"B'01000000" ++ XINFOLVL.MEMBER KEYWORD
669	(29D)	BITSTRING	1	XMAMFLIF_XKEYS	++ FIELD_LABEL
669	(29D)	BITSTRING	0	XMAMFLIF_KEYUSED_REQMBOX	"B'10000000" ++ KEYUSED.REQMBOX KEYWORD
669	(29D)	BITSTRING	0	XMAMFLIF_KEYUSED_ANSAREA	"B'01000000" ++ KEYUSED.ANSAREA KEYWORD
669	(29D)	BITSTRING	0	XMAMFLIF_KEYUSED_GROUPTOKEN	"B'00100000" ++ KEYUSED.GROUPTOKEN KEYWORD
669	(29D)	BITSTRING	0	XMAMFLIF_KEYUSED_GROUPNAME	"B'00010000" ++ KEYUSED.GROUPNAME KEYWORD
670	(29E)	BITSTRING	1	XMAMFLIF_XSTATE	++ INPUT

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
670	(29E)	BITSTRING	0	XMAMFLIF_XSTATE_ANY	"B'10000000" ++ XSTATE.ANY KEYWORD
670	(29E)	BITSTRING	0	XMAMFLIF_XSTATE_ACTIVE	"B'01000000" ++ XSTATE.ACTIVE KEYWORD
671	(29F)	BITSTRING	1	XMAMFLIF_XSYSTEM	++ INPUT
671	(29F)	BITSTRING	0	XMAMFLIF_XSYSTEM_ANY	"B'10000000" ++ XSYSTEM.ANY KEYWORD
671	(29F)	BITSTRING	0	XMAMFLIF_XSYSTEM_CURRENT	"B'01000000" ++ XSYSTEM.CURRENT KEYWORD
672	(2A0)	BITSTRING	1	XMAMFLIF_XPOLYJES	++ INPUT
672	(2A0)	BITSTRING	0	XMAMFLIF_XPOLYJES_YES	"B'10000000" ++ XPOLYJES.YES KEYWORD
672	(2A0)	BITSTRING	0	XMAMFLIF_XPOLYJES_NO	"B'01000000" ++ XPOLYJES.NO KEYWORD
673	(2A1)	BITSTRING	2	XMAMFLIF_XFUNCTION	++ INPUT
		.... ..		XMAMFLIF_XFUNCTION_ARM	"B'1000000000000000" ++ XFUNCTION.ARM KEYWORD
675	(2A3)	CHARACTER	8	XMAMFLIF_XGROUPNAME	++ XGROUPNAME
675	(2A3)	X'3B	0	XMAMFLIFL	"*-XMAMFLIF" ++ LENGTH OF PLIST
Comment					
IXZXIXIF-2					
End of Comment					
684	(2AC)	SIGNED	4		Reserved for IBM use
688	(2B0)	DBL WORD	8	(0)	Double word alignment
Comment					
IXZXIXAC MF=(L, XMAMFLAC) IXZXIXAC list area					
MACDATE -93/06/10-<1>					
End of Comment					
688	(2B0)	SIGNED	2	M00M1111 (0)	IXZXIXAC-1
688	(2B0)	DBL WORD	8	XMAMFLAC (0)	++ IXZXIXAC PARM LIST
688	(2B0)	BITSTRING	1	XMAMFLAC_XVERSION	++ INPUT XVERSION
689	(2B1)	CHARACTER	6	XMAMFLAC_XEYECATCH	++ CONSTANT XEYECATCH
695	(2B7)	BITSTRING	1	XMAMFLAC_XSTB	++ INPUT
695	(2B7)	BITSTRING	0	XMAMFLAC_XSTB_NO	"B'10000000" ++ XSTB.NO KEYWORD
695	(2B7)	BITSTRING	0	XMAMFLAC_XSTB_YES	"B'01000000" ++ XSTB.YES KEYWORD
696	(2B8)	BITSTRING	8	XMAMFLAC_XMSGTOKEN	++ XMSGTOKEN
704	(2C0)	ADDRESS	4	XMAMFLAC_XDATA	++ XDATA
708	(2C4)	SIGNED	4	XMAMFLAC_XDATALEN	++ XDATALEN
712	(2C8)	SIGNED	4	XMAMFLAC_XUSERRC	++ XUSERRC
716	(2CC)	SIGNED	4	XMAMFLAC_XGROUPTOKEN	++ XGROUPTOKEN
720	(2D0)	SIGNED	4	XMAMFLAC_XSYSRC	++ XSYSRC
724	(2D4)	SIGNED	4	XMAMFLAC_XSYSRSN	++ XSYSRSN

\$XMAS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
728	(2D8)	BITSTRING	1	XMAMFLAC_XKEYS	++ FIELD_LABEL
728	(2D8)	BITSTRING	0	XMAMFLAC_KEYUSED_DATA	"B'10000000" ++ KEYUSED.DATA KEYWORD
728	(2D8)	BITSTRING	0	XMAMFLAC_KEYUSED_DATALEN	"B'01000000" ++ KEYUSED.DATALEN KEYWORD
728	(2D8)	BITSTRING	0	XMAMFLAC_KEYUSED_USERRC	"B'00100000" ++ KEYUSED.USERRC KEYWORD
728	(2D8)	BITSTRING	0	XMAMFLAC_KEYUSED_SYSRC	"B'00010000" ++ KEYUSED.SYSRC KEYWORD
728	(2D8)	BITSTRING	0	XMAMFLAC_KEYUSED_SYSRSN	"B'00001000" ++ KEYUSED.SYSRSN KEYWORD
729	(2D9)	BITSTRING	1	XMAMFLAC_XMSGATTR	++ INPUT
729	(2D9)	BITSTRING	0	XMAMFLAC_XMSGATTR_J3CONNECT	"B'10000000" ++ XMSGATTR.J3CONNECT KEYWORD
729	(2D9)	BITSTRING	0	XMAMFLAC_XMSGATTR_EXPRESS	"B'01000000" ++ XMSGATTR.EXPRESS KEYWORD
729	(2D9)	X'2A	0	XMAMFLACL	**XMAMFLAC" ++ LENGTH OF PLIST
Comment					
IXZXIXAC-1					
End of Comment					
736	(2E0)	DBL WORD	8	(0)	Double word alignment
Comment					
IXZXIXRM MF=(L, XMAMFLRM) IXZXIXRM list area					
MACDATE -93/05/10-<1>					
End of Comment					
736	(2E0)	SIGNED	2	M00M1112 (0)	IXZXIXRM-1
736	(2E0)	DBL WORD	8	XMAMFLRM (0)	++ IXZXIXRM PARM LIST
736	(2E0)	BITSTRING	1	XMAMFLRM_XVERSION	++ INPUT XVERSION
737	(2E1)	CHARACTER	6	XMAMFLRM_XEYECATCH	++ CONSTANT XEYECATCH
743	(2E7)	CHARACTER	1	XMAMFLRM_XRSV0001	++ RESERVED XRSV0001
744	(2E8)	CHARACTER	16	XMAMFLRM_XMBOXNAME	++ XMBOXNAME
760	(2F8)	ADDRESS	4	XMAMFLRM_XDATA	++ XDATA
764	(2FC)	SIGNED	4	XMAMFLRM_XDATALEN	++ XDATALEN
768	(300)	BITSTRING	8	XMAMFLRM_XMSGTOKEN	++ XMSGTOKEN
776	(308)	SIGNED	4	XMAMFLRM_XGROUPTOKEN	++ XGROUPTOKEN
780	(30C)	BITSTRING	1	XMAMFLRM_XMSGFETCH	++ INPUT
780	(30C)	BITSTRING	0	XMAMFLRM_XMSGFETCH_ALL	"B'10000000" ++ XMSGFETCH.ALL KEYWORD
780	(30C)	BITSTRING	0	XMAMFLRM_XMSGFETCH_MESSAGES	"B'01000000" ++ XMSGFETCH.MESSAGES KEYWORD
780	(30C)	BITSTRING	0	XMAMFLRM_XMSGFETCH_SYSEVENT	"B'00100000" ++ XMSGFETCH.SYSEVENT KEYWORD
780	(30C)	BITSTRING	0	XMAMFLRM_XMSGFETCH_ACKS	"B'00010000" ++ XMSGFETCH.ACKS KEYWORD
781	(30D)	BITSTRING	1	XMAMFLRM_XKEYS	++ FIELD_LABEL
781	(30D)	BITSTRING	0	XMAMFLRM_KEYUSED_MSGFETCH	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
781	(30D)	X'2E	0	XMAMFLRML	"B'10000000" ++ KEYUSED.MSGFETCH KEYWORD "-XMAMFLRM" ++ LENGTH OF PLIST
Comment					
IXZXIXRM-1					
End of Comment					
784	(310)	DBL WORD	8	(0)	Double word alignment
Comment					
IXZXIXCL MF=(L, XMAMFLCL) IXZXIXCL list area MACDATE -94/04/26-<1>					
End of Comment					
784	(310)	SIGNED	2	M00M1113 (0)	IXZXIXCL-1
784	(310)	DBL WORD	8	XMAMFLCL (0)	++ IXZXIXCL PARM LIST
784	(310)	BITSTRING	1	XMAMFLCL_XVERSION	++ INPUT XVERSION
785	(311)	CHARACTER	6	XMAMFLCL_XEYECATCH	++ CONSTANT XEYECATCH
791	(317)	CHARACTER	1	XMAMFLCL_XRSV0001	++ RESERVED XRSV0001
792	(318)	SIGNED	4	XMAMFLCL_XFAILEDYSYS	++ XFAILEDYSYS
796	(31C)	SIGNED	4	XMAMFLCL_XGROUPTOKEN	++ XGROUPTOKEN
796	(31C)	X'10	0	XMAMFLCLL	"*-XMAMFLCL" ++ LENGTH OF PLIST
Comment					
IXZXIXCL-1					
End of Comment					
800	(320)	DBL WORD	8	(0)	Double word alignment
Comment					
IXZXIXMC MF=(L, XMAMFLMC) IXZXIXMC list area MACDATE -93/05/10-<1>					
End of Comment					
800	(320)	SIGNED	2	M00M1114 (0)	IXZXIXMC-1
800	(320)	DBL WORD	8	XMAMFLMC (0)	++ IXZXIXMC PARM LIST
800	(320)	BITSTRING	1	XMAMFLMC_XVERSION	++ INPUT XVERSION
801	(321)	CHARACTER	6	XMAMFLMC_XEYECATCH	++ CONSTANT XEYECATCH
807	(327)	BITSTRING	1	XMAMFLMC_XSTB	++ INPUT
807	(327)	BITSTRING	0	XMAMFLMC_XSTB_NO	"B'10000000" ++ XSTB.NO KEYWORD
807	(327)	BITSTRING	0	XMAMFLMC_XSTB_YES	"B'01000000" ++ XSTB.YES KEYWORD
808	(328)	CHARACTER	16	XMAMFLMC_XMBOXNAME	++ XMBOXNAME
824	(338)	SIGNED	4	XMAMFLMC_XGROUPTOKEN	++ XGROUPTOKEN
824	(338)	X'1C	0	XMAMFLMCL	"*-XMAMFLMC" ++ LENGTH OF PLIST

\$XMAS Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
IXZXIMC-1					
End of fields used within MVS macros.					
End of Comment					
832	(340)	DBL WORD	8	(0)	Ensure double word aligned
832	(340)	X'40	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	System name of event origin
24	(18)	BITSTRING	4	XMAQESYT	System id / token for MVS
28	(1C)	BITSTRING	1	XMAQEFL1	Member action request
28	(1C)	BITSTRING	0	XMAQE1JR	"B'00000001" Job restart required-\$ESYS
28	(1C)	BITSTRING	0	XMAQE1AE	"B'00000010" AUTOESYS=ON on MASDEF
28	(1C)	BITSTRING	0	XMAQE1VR	"B'00000100" Verify ARM registrations
29	(1D)	BITSTRING	1		Reserved for future use
30	(1E)	SIGNED	2	XMAQSIZE	Length of XMAQENT

Comment

The remaining fields contain member status information.

End of Comment

32	(20)	DBL WORD	8	XMAQITIM	TOD of last CKPT access for this member
40	(28)	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

41	(29)	BITSTRING	1	XMAQSTAT	Current state of member
41	(29)	BITSTRING	0	MEMDOWN	"B'10000000" DOWN filter
41	(29)	BITSTRING	0	MEMDEF	"B'01000000" DEFINED filter
41	(29)	BITSTRING	0	MEMINU	"B'00100000" INUSE filter

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
41	(29)	BITSTRING	0	MEMFAIL	"B'00010000" FAILED filter
41	(29)	BITSTRING	0	MEMFILTR	"B'11110000" Filter mask
41	(29)	BITSTRING	0	MEMUNDEF	"X'01" Member UNDEFINED
41	(29)	BITSTRING	0	MEMUPEND	"X'02" Member UNDEFINED-PENDING
41	(29)	X'63	0	MEMACTIV	"MEMDEF+MEMINU+X'03" Member ACTIVE
41	(29)	X'C4	0	MEMINACT	"MEMDEF+MEMDOWN+X'04" Member TERMINATED
41	(29)	X'65	0	MEMINIT	"MEMDEF+MEMINU+X'05" Member INITIALIZING
41	(29)	X'66	0	MEMTERM	"MEMDEF+MEMINU+X'06" Member TERMINATING
41	(29)	X'D7	0	MEMJESF	"MEMDEF+MEMDOWN+MEMFAIL+X'07" Memb JES2-FAILED
41	(29)	X'D8	0	MEMXCFF	"MEMDEF+MEMDOWN+MEMFAIL+X'08" Memb JESXCF-FAILED
41	(29)	X'D9	0	MEMMVSG	"MEMDEF+MEMDOWN+MEMFAIL+X'09" Memb MVS-GONE
41	(29)	X'6A	0	MEMDORM	"MEMDEF+MEMINU+X'0A" Member DORMANT (Never set)
41	(29)	X'CB	0	MEMDRAIN	"MEMDEF+MEMDOWN+X'0B" Member DRAINED
41	(29)	X'DC	0	MEMALICE	"MEMDEF+MEMDOWN+MEMFAIL+X'0C" Member awaiting ALICE processing
42	(2A)	BITSTRING	1	XMAQUFLG	Local copy of XMAUSFLG
43	(2B)	BITSTRING	1	XMAQUFL1	Local copy of XMAUSFL1
44	(2C)	BITSTRING	1	XMAQNEWS	Latest member state
44	(2C)	X'1	0	XMANSACTION	"1" Member is active
44	(2C)	X'2	0	XMANSACTION	"2" JESXCF has terminated
44	(2C)	X'3	0	XMANSACTION	"3" MVS is no longer active
44	(2C)	X'4	0	XMANSACTION	"4" JES2 ABENDED
45	(2D)	BITSTRING	1	XMAQCRF1	CKPT reconfiguration status (see XMAUCRF1 for bit definitions)
46	(2E)	BITSTRING	1	XMAQJXF1	JESXCF member status
47	(2F)	BITSTRING	1	XMAQEFL2	Status flag byte 2
47	(2F)	BITSTRING	0	XMAQ2PRS	"B'10000000" MVS Gone status in XMAQNEWS was inferred and cannot be confirmed
48	(30)	SIGNED	4	XMAAHOLD	Actual HOLD value
52	(34)	SIGNED	4	XMAADORM	Actual dormancy value
56	(38)	SIGNED	4	(2)	Reserved for IBM use
64	(40)	DBL WORD	8	(0)	Insure double word aligned
64	(40)	X'40	0	XMAQELEN	**XMAQENT" Length of XMAQENT element

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	XMAXUS	HASP XCF USER STATE FIELD
0	(0)	BITSTRING	4	XMAJXCF (0)	JESXCF user state information
0	(0)	BITSTRING	1	XMAJXFL1	JESXCF status
0	(0)	BITSTRING	0	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
20	(14)	BITSTRING	0	XMAUINIT	"B'10000000" JES2 initializing
20	(14)	BITSTRING	0	XMAUTERM	"B'01000000" JES2 terminating
20	(14)	BITSTRING	0	XMAUACTN	"B'00100000" JES2 NPM PCE initialized
20	(14)	BITSTRING	0	XMAUNUTS	"B'00010000" JES2 NPM PCE in HASPNUTS
20	(14)	BITSTRING	0	XMAUXCMA	"B'00001000" JES2 XCM PCE initialized
21	(15)	BITSTRING	1	XMAUSFL1	Member options flag
21	(15)	BITSTRING	0	XMA1AON	"B'10000000" AUTOESYS=ON specified
21	(15)	BITSTRING	0	XMA1AOFF	"B'01000000" AUTOESYS=OFF specified
22	(16)	ADDRESS	1	XMAUSMID	Member number (\$SIDBUSY)
23	(17)	BITSTRING	1	XMAUCRF1	CKPT reconfiguration status
23	(17)	BITSTRING	0	XMAUC1RC	"B'10000000" - Reconfiguration capable
23	(17)	BITSTRING	0	XMAUC1ST	"B'01000000" - Reconfiguration started
23	(17)	BITSTRING	0	XMAUC1MD	"B'00100000" - This member MUST drive
23	(17)	BITSTRING	0	XMAUC1CO	"B'00010000" - Reconfig is committed (First driving member committed)
23	(17)	BITSTRING	0	XMAUC1DR	"B'00001000" - This member is driver

\$XMAS Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
23	(17)	BITSTRING	0	XMAUC1DL	"B'00000100" - This member has detected a delayed XCF msg, ack, or user state update
23	(17)	BITSTRING	0	XMAUC1CF	"B'00000010" - This member is committed to fail
23	(17)	BITSTRING	0	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	XMAUCLV	Member's CKPT level number (Low-order 5 bytes)

Comment

The last three bytes of the user state are shared BETWEEN JES2, JES3, AND JESXCF. THERE OFFSETS must not change

End of Comment

29	(1D)	BITSTRING	3	XMAFEAT (0)	Functions that this JES supports
29	(1D)	BITSTRING	1	XMAFEAT1	Feature byte 1
29	(1D)	BITSTRING	0	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	29	63	XMAFEAT	1D	
MEMALICE	29	DC	XMAFEAT1	1D	
MEMDEF	29	40	XMAFLAG1	38	
MEMDORM	29	6A	XMAFLAG2	39	
MEMDOWN	29	80	XMAFLAG3	3B	
MEMDRAIN	29	CB	XMAFLAG4	3C	
MEMFAIL	29	10	XMAFLAG5	3D	
MEMFILTR	29	F0	XMAFLAG6	3E	
MEMINACT	29	C4	XMAID	0	
MEMINIT	29	65	XMAIFAA	184	
MEMINU	29	20	XMAIFALN	180	
MEMJESF	29	D7	XMAJXCF	0	
MEMMVSG	29	D9	XMAJXFL1	0	
MEMTERM	29	66	XMAJXRS3	1	
MEMUNDEF	29	1	XMALEN	340	40
MEMUPEND	29	2	XMAMADDR	80	
MEMXCFF	29	D8	XMAMEMDT	8	
M00M1104	0	88	XMAMEMNM	18	
M00M1106	0	B0	XMAMEMST	160	
M00M1107	0	F0	XMAMEMUP	98	
M00M1108	208		XMAMFLAC	2B0	
M00M1109	238		XMAMFLAC_KEYUSED_DATA		
M00M1110	0	70		2D8	80
M00M1111	2B0		XMAMFLAC_KEYUSED_DATALEN		
M00M1112	2E0			2D8	40
M00M1113	310		XMAMFLAC_KEYUSED_SYSRC		
M00M1114	320			2D8	10
XMAADORM	34		XMAMFLAC_KEYUSED_SYSRSN		
XMAAHOLD	30			2D8	8
XMAARM	1D	80	XMAMFLAC_KEYUSED_USERRC		
XMAATTCH	0	80		2D8	20
XMAAXRQ	A0		XMAMFLAC_XDATA		
XMABLDM	F0	C2D3C440		2C0	
XMABLDML	0	4C	XMAMFLAC_XDATALEN		
XMACOLDT	4			2C4	
XMADIAG	E4		XMAMFLAC_XEYECATCH		

Name	Hex Offset	Hex Value
	2B1	
XMAMFLAC_XGROUPTOKEN	2CC	
XMAMFLAC_XKEYS		
	2D8	
XMAMFLAC_XMSGATTR		
	2D9	
XMAMFLAC_XMSGATTR_EXPRESS	2D9	40
XMAMFLAC_XMSGATTR_J3CONNECT	2D9	80
XMAMFLAC_XMSGTOKEN		
	2B8	
XMAMFLAC_XSTB		
	2B7	
XMAMFLAC_XSTB_NO		
	2B7	80
XMAMFLAC_XSTB_YES		
	2B7	40
XMAMFLAC_XSYSRC		
	2D0	
XMAMFLAC_XSYSRSN		
	2D4	
XMAMFLAC_XUSERRC		
	2C8	
XMAMFLAC_XVERSION		
	2B0	
XMAMFLACL	2D9	2A
XMAMFLAT	1B0	
XMAMFLAT_XDIAG		
	1E4	
XMAMFLAT_XEYECATCH		
	1B1	
XMAMFLAT_XFLAG1		
	1E0	
XMAMFLAT_XFLAG2		
	1E1	
XMAMFLAT_XGROUP		
	1B8	
XMAMFLAT_XGROUPTOKEN		
	1DC	
XMAMFLAT_XJ3CONNECT_NO		
	1E1	80
XMAMFLAT_XJ3CONNECT_YES		
	1E1	40
XMAMFLAT_XLINKPARMS		
	1E8	
XMAMFLAT_XMAINTLVL		
	1D8	
XMAMFLAT_XMEMBER		
	1C0	
XMAMFLAT_XRELEASE		
	1D0	
XMAMFLAT_XRSV0001		
	1B7	
XMAMFLAT_XRSV0002		
	1E2	
XMAMFLAT_XVERSION		
	1B0	
XMAMFLAT_XWHICHJES_COMMON		
	1E0	8
XMAMFLAT_XWHICHJES_INIT		
	1E0	10
XMAMFLAT_XWHICHJES_JES2		
	1E0	80

Name	Hex Offset	Hex Value
XMAMFLAT_XWHICHJES_JES3		
	1E0	40
XMAMFLAT_XWHICHJES_J3CIFSS		
	1E0	4
XMAMFLAT_XWHICHJES_J3FSS		
	1E0	20
XMAMFLATL	1E8	40
XMAMFLCL	310	
XMAMFLCL_XEYECATCH		
	311	
XMAMFLCL_XFAILEDYSYS		
	318	
XMAMFLCL_XGROUPTOKEN		
	31C	
XMAMFLCL_XRSV0001		
	317	
XMAMFLCL_XVERSION		
	310	
XMAMFLCLL	31C	10
XMAMFLDT	1F0	
XMAMFLDT_XEYECATCH		
	1F1	
XMAMFLDT_XGROUPTOKEN		
	1F8	
XMAMFLDT_XLINKPARMS		
	1FC	
XMAMFLDT_XRSV0001		
	1F7	
XMAMFLDT_XVERSION		
	1F0	
XMAMFLDTL	1FC	14
XMAMFLIF	270	
XMAMFLIF_KEYUSED_ANSAREA		
	29D	40
XMAMFLIF_KEYUSED_GROUPNAME		
	29D	10
XMAMFLIF_KEYUSED_GROUPTOKEN		
	29D	20
XMAMFLIF_KEYUSED_REQMBOX		
	29D	80
XMAMFLIF_XANSAREA		
	294	
XMAMFLIF_XANSLEN		
	298	
XMAMFLIF_XEYECATCH		
	271	
XMAMFLIF_XFUNCTION		
	2A1	
XMAMFLIF_XFUNCTION_ARM		
	2A1	
XMAMFLIF_XGROUPNAME		
	2A3	
XMAMFLIF_XGROUPTOKEN		
	278	
XMAMFLIF_XINFOLVL		
	29C	
XMAMFLIF_XINFOLVL_GROUP		
	29C	80
XMAMFLIF_XINFOLVL_MEMBER		
	29C	40
XMAMFLIF_XKEYS		
	29D	
XMAMFLIF_XPOLYJES		
	2A0	
XMAMFLIF_XPOLYJES_NO		

\$XMAS Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
	2A0	40	XMAMFLQR_PL_END		
XMAMFLIF_XPOLYJES_YES	2A0	80		1A0	B0
XMAMFLIF_XREQMBOX	27C		XMAMFLQR_XANSAREA_ADDR	18C	
XMAMFLIF_XREQTOKEN	28C		XMAMFLQR_XANSAREA_ALET	190	
XMAMFLIF_XRSV0001	277		XMAMFLQR_XANSLEN	194	
XMAMFLIF_XSTATE	29E		XMAMFLQR_XCFNAME	198	
XMAMFLIF_XSTATE_ACTIVE	29E	40	XMAMFLQR_XGRPNAME	198	
XMAMFLIF_XSTATE_ANY	29E	80	XMAMFLQR_XMEMNAME	1A0	
XMAMFLIF_XSYSTEM	29F		XMAMFLQR_XMEMTOKEN	1A0	
XMAMFLIF_XSYSTEM_ANY	29F	80	XMAMFLQR_XQUAALEVEL	18B	
XMAMFLIF_XSYSTEM_CURRENT	29F	40	XMAMFLQR_XREQINFO	18A	
XMAMFLIF_XVERSION	270		XMAMFLQR_XREQINFO_ARMS_ALLDATA	18A	1
XMAMFLIFL	2A3	3B	XMAMFLQR_XREQINFO_ARMSTATUS	18A	2
XMAMFLMB	208		XMAMFLQR_XREQINFO_CF	18A	20
XMAMFLMB_XEYECATCH	209		XMAMFLQR_XREQINFO_CF_ALLDATA	18A	8
XMAMFLMB_XGROUPTOKEN	22C		XMAMFLQR_XREQINFO_GROUP	18A	80
XMAMFLMB_XMBOXNAME	210		XMAMFLQR_XREQINFO_STR	18A	10
XMAMFLMB_XPOSTALET	228		XMAMFLQR_XREQINFO_STR_ALLDATA	18A	4
XMAMFLMB_XPOSTDATA	224		XMAMFLQR_XREQINFO_SYSPLEX	18A	40
XMAMFLMB_XPOSTXIT	220		XMAMFLQR_XREQTYPE	189	
XMAMFLMB_XRSV0001	20F		XMAMFLQR_XREQTYPE_DEFER	189	5
XMAMFLMB_XSYSEVENT_NO	230	40	XMAMFLQR_XREQTYPE_IMMEDIATE	189	10
XMAMFLMB_XSYSEVENT_YES	230	80	XMAMFLQR_XSTRNAME	1A0	
XMAMFLMB_XSYSEVENTS	230		XMAMFLQR_XVERSION	188	
XMAMFLMB_XVERSION	208		XMAMFLQRL	1B0	28
XMAMFLMBL	230	29	XMAMFLRM	2E0	
XMAMFLMC	320		XMAMFLRM_KEYUSED_MSGFETCH	30D	80
XMAMFLMC_XEYECATCH	321		XMAMFLRM_XDATA	2F8	
XMAMFLMC_XGROUPTOKEN	338		XMAMFLRM_XDATALEN	2FC	
XMAMFLMC_XMBOXNAME	328		XMAMFLRM_XEYECATCH	2E1	
XMAMFLMC_XSTB	327		XMAMFLRM_XGROUPTOKEN	308	
XMAMFLMC_XSTB_NO	327	80	XMAMFLRM_XKEYS	30D	
XMAMFLMC_XSTB_YES	327	40	XMAMFLRM_XMBOXNAME	2E8	
XMAMFLMC_XVERSION	320		XMAMFLRM_XMSGFETCH	30C	
XMAMFLMCL	338	1C	XMAMFLRM_XMSGFETCH_ACKS		
XMAMFLQR	188				

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
	30C	10	XMAQSID	0	
XMAMFLRM_XMSGFETC	30C	80	XMAQSIZE	1E	
ALL			XMAQSTAT	29	
XMAMFLRM_XMSGFETC_MESSAGES	30C	40	XMAQUFLG	2A	
	30C	20	XMAQUFL1	2B	
XMAMFLRM_XMSGFETC_SYSEVENT			XMAQ2PRS	2F	80
	30C		XMAREQ	58	
XMAMFLRM_XMSGTOKEN	300		XMARSN	2C	
			XMARTN	28	
XMAMFLRM_XRSV0001	2E7		XMASERV	30	
			XMASIDNM	7C	
XMAMFLRM_XVERSION	2E0		XMASNUM	60	
			XMASYSNM	64	
XMAMFLRML	30D	2E	XMASYTOK	60	
XMAMFLUS	238		XMAUACTN	14	20
XMAMFLUS_XEYECATCH	239		XMAUCRF1	17	
			XMAUCRLV	18	
XMAMFLUS_XGROUPTOKEN	260		XMAUC1CF	17	2
			XMAUC1CO	17	10
XMAMFLUS_XRSV0001	23F		XMAUC1DC	17	7F
			XMAUC1DL	17	4
XMAMFLUS_XUPDTYPE	264		XMAUC1DR	17	8
			XMAUC1IO	17	1
XMAMFLUS_XUPDTYPE_AND	264	40	XMAUC1MD	17	20
			XMAUC1RC	17	80
XMAMFLUS_XUPDTYPE_OR	264	20	XMAUC1SC	17	3F
			XMAUC1ST	17	40
XMAMFLUS_XUPDTYPE_REPLACE	264	80	XMAUINIT	14	80
			XMAUNUTS	14	10
XMAMFLUS_XUSTATE	240		XMAUSED	1D	1E
			XMAUSFLG	14	
XMAMFLUS_XVERSION	238		XMAUSFL1	15	
			XMAUSLEN	1E	20
XMAMFLUSL	264	2D	XMAUSMID	16	
XMAMLEN	84		XMAUTERM	14	40
XMAMLOCL	3A	1	XMAUXCMA	14	8
XMAMODE	3A		XMAVNUM	4	2
XMAMTOKE	88		XMAVRALN	58	5C
XMAMTOKN	90		XMAVRSN	4	
XMANPMUP	9C		XMAXECB	40	
XMANSACT	2C	1	XMAXUSST	140	
XMANSFLD	2C	2	XMA1AOFF	15	40
XMANSFON	2C	3	XMA1AON	15	80
XMANSJES	2C	4	XMA1AXMA	38	10
XMAOTHMN	168		XMA1INIT	38	40
XMAOXMAS	164		XMA1JOIN	38	80
XMAPLIWK	178		XMA2CDEL	39	40
XMAPLXID	C		XMA2FRR	39	80
XMAPLXNM	6C		XMA3INIT	3B	80
XMAPTIME	74		XMA3JOIN	3B	8
XMAQCRF1	2D		XMA3LEAV	3B	2
XMAQDATA	A4		XMA3MEMS	3B	20
XMAQEFL1	1C		XMA3QUER	3B	1
XMAQEFL2	2F		XMA3SYSG	3B	40
XMAQELEN	40	40	XMA3USRS	3B	10
XMAQESYS	10		XMA3USTA	3B	4
XMAQESYT	18		XMA4DELT	3C	10
XMAQETIM	8		XMA4DQ	3C	80
XMAQE1AE	1C	2	XMA4MAPE	3C	40
XMAQE1JR	1C	1	XMA4MEMN	3C	4
XMAQE1VR	1C	4	XMA4MQER	3C	8
XMAQITIM	20		XMA4PURG	3C	20
XMAQJXF1	2E		XMA4XMQU	3C	2
XMAQMEMB	28		XMA5ESYS	3D	80
XMAQNEWS	2C		XMA6FCEL	3E	10

\$XMAS Cross Reference

Name	Hex Offset	Hex Value
XMA6XCFR	3E	20
XMA6XMAR	3E	40
XMA6XMAS	3E	80

\$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
4	(4)	BITSTRING	0	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
8	(8)	BITSTRING	0	XPLCOB0	"B'10000000" Bit definitions for
8	(8)	BITSTRING	0	XPLCOB1	"B'01000000" the condition byte. Each
8	(8)	BITSTRING	0	XPLCOB2	"B'00100000" specific exit should
8	(8)	BITSTRING	0	XPLCOB3	"B'00010000" define their own meaning
8	(8)	BITSTRING	0	XPLCOB4	"B'00001000" to these bits and EQUATE
8	(8)	BITSTRING	0	XPLCOB5	"B'00000100" them back to these
8	(8)	BITSTRING	0	XPLCOB6	"B'00000010" bits.
8	(8)	BITSTRING	0	XPLCOB7	"B'00000001"
9	(9)	BITSTRING	1	XPLRESP	Response byte (Modifiable by Exit routine)
9	(9)	BITSTRING	0	XPLREB0	"B'10000000" Bit definitions for
9	(9)	BITSTRING	0	XPLREB1	"B'01000000" the response byte. Each
9	(9)	BITSTRING	0	XPLREB2	"B'00100000" specific exit should

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
9	(9)	BITSTRING	0	XPLREB3	"B'00010000" define their own meaning
9	(9)	BITSTRING	0	XPLREB4	"B'00001000" to these bits and EQUATE
9	(9)	BITSTRING	0	XPLREB5	"B'00000100" them back to these
9	(9)	BITSTRING	0	XPLREB6	"B'00000010" bits.
9	(9)	BITSTRING	0	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
16	(10)	BITSTRING	0	X001VERN	"X'01" Exit 1 XPL version number

Comment

Indicator byte equates

End of Comment

16	(10)	X'7	0	X001IND	"XPLIND" Indicator byte
16	(10)	BITSTRING	0	X001JHDR	"X'80" Job header call
16	(10)	BITSTRING	0	X001JTLR	"X'40" Job trailer call
16	(10)	BITSTRING	0	X001JCNT	"X'20" Job continuation call

Comment

Condition byte equates

End of Comment

16	(10)	X'8	0	X001COND	"XPLCOND" Condition byte
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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)	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	X001WJOE	Address of the Work JOE
36	(24)	ADDRESS	4	X001CJOE	Address of the Characteristics JOE
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

Comment

Exit 7 XPL values

End of Comment

52	(34)	BITSTRING	0	X007VERN	"X'01" Exit 07 XPL version number
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\$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
52	(34)	X'7	0	X007XID	"7" Exit 07 id
Comment					
Indicator byte equates					
End of Comment					
52	(34)	X'7	0	X007IND	"XPLIND" Indicator byte equate
Comment					
Response byte equates					
End of Comment					
52	(34)	X'9	0	X007RESP	"XPLRESP" Response byte equate
52	(34)	X'80	0	X007IOER	"XPLREB0" Response bit to indicate I/O error
Comment					
Condition byte equates					
End of Comment					
52	(34)	X'8	0	X007COND	"XPLCOND" Condition byte equate
52	(34)	X'40	0	X007CBWR	"XPLCOB1" Control block is to be written
52	(34)	X'20	0	X007CBUN	"XPLCOB2" Unknown control block read
52	(34)	X'10	0	X007CBIN	"XPLCOB3" Invalid control block read
16	(10)	CHARACTER	4	X007CBID	Control block ID
16	(10)	X'14	0	X007SIZE	** -XPL" Length of Exit 07 xpl
Comment					
Exit 8 XPL values					
End of Comment					
16	(10)	BITSTRING	0	X008VERN	"X'01" Exit 08 XPL version number
16	(10)	X'8	0	X008XID	"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)	CHARACTER	4	X008CBID	Control block ID
16	(10)	X'14	0	X008SIZE	** -XPL" Length of Exit 07 xpl

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Exit 9 XPL values					
End of Comment					
16	(10)	BITSTRING	0	X009VERN	"X'02" Exit 9 XPL version number
16	(10)	X'9	0	X009XID	"9" Exit 9 id
Comment					
Indicator byte equates					
End of Comment					
16	(10)	X'7	0	X009IND	"XPLIND" Indicator byte
16	(10)	BITSTRING	0	X009USER	"B'00001000" Invoked from JES2 address space
16	(10)	BITSTRING	0	X009CNCL	"B'00000100" CANCEL on JOB JCL keyword
16	(10)	BITSTRING	0	X009DUMP	"B'00000010" DUMP on JOB JCL keyword
16	(10)	BITSTRING	0	X009WARN	"B'00000001" WARNING on JOB JCL keyword
16	(10)	X'F	0	X009INDX	"X009USER+X009CNCL+X009DUMP+X009WARN" Valid indicator bits
Comment					
Condition byte equates					
End of Comment					
16	(10)	X'8	0	X009COND	"XPLCOND" Condition byte
16	(10)	X'80	0	X009CEXC	"XPLCOB0" Cards exceeded estimate
16	(10)	X'40	0	X009LEXC	"XPLCOB1" Lines exceeded estimate
16	(10)	X'20	0	X009PEXC	"XPLCOB2" Pages exceeded estimate
16	(10)	X'10	0	X009BEXC	"XPLCOB3" Bytes exceeded estimate
16	(10)	X'F0	0	X009CONX	"X009CEXC+X009LEXC+X009PEXC+X009BEXC" Valid condition bits
Comment					
Response byte equates					
End of Comment					
16	(10)	X'9	0	X009RESP	"XPLRESP" Response byte
16	(10)	X'80	0	X009XOVR	"XPLREB0" Execution Option Value Returned (bits 6 and 7)
16	(10)	X'40	0	X009OLIR	"XPLREB1" Output Limit Increment Returned in Parm List
16	(10)	X'20	0	X009SDEM	"XPLREB2" Suppress Default Error Message
16	(10)	X'10	0	X009USRB	"XPLREB3" Use Response Bits
16	(10)	X'E0	0	X009RESX	"X009XOVR+X009OLIR+X009SDEM" Valid response bits
16	(10)	X'2	0	X009722D	"XPLREB6" ABEND (722) with dump
16	(10)	X'1	0	X009722N	"XPLREB7" ABEND (722) with no dump
Comment					
<p>-----</p> <p>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.</p> <p>-----</p>					
End of Comment					
16	(10)	X'3	0	X009RESO	"X009722D+X009722N" Valid options bits
16	(10)	ADDRESS	4	X009JCT	Address of JCT

\$XPL Map

Offsets

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

<p>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.</p>					

End of Comment					
20	(14)	SIGNED	4	X009LVAL	JCTLINES or JCTPUNCH value
24	(18)	SIGNED	4	X009PVAL	JCTPAGES value
28	(1C)	SIGNED	4	X009BVAL	JCTBYTES value
32	(20)	SIGNED	4	X009RINC	User's increase for records
36	(24)	SIGNED	4	X009PINC	User's increase for pages
40	(28)	SIGNED	4	X009BINC	User's increase for bytes
44	(2C)	SIGNED	4		Reserved for future use
48	(30)	DBL WORD	8	(0)	Force next fields dbleword
48	(30)		8	X009DLIN	Job's exact line/punch cnt in packed decimal format
56	(38)		8	X009DPAG	Job's exact page count in packed decimal format
64	(40)		8	X009DBYT	Job's exact byte count in packed decimal format
72	(48)	DBL WORD	8	(0)	Force length multi-double
72	(48)	X'48	0	X009SIZE	"*-XPL" Size of XPL for exit 9
Comment					
Exit 15 XPL values					
End of Comment					
72	(48)	X'F	0	X015XID	"15" Exit 15 ID
72	(48)	BITSTRING	0	X015VERN	"X'01" Exit 15 XPL version number
Comment					
Indicator byte equates					
End of Comment					
72	(48)	X'7	0	X015IND	"XPLIND" Indicator byte equate
72	(48)	BITSTRING	0	X015DSEL	"X'80" Data set selection call
72	(48)	BITSTRING	0	X015DSEP	"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 PDDB references the SWBTU
72	(48)	X'40	0	X015SEPP	"XPLCOB1" Bit is on if SEPDS=YES indicating ds separator pages are requested
Comment					
Response byte equates					
End of Comment					
72	(48)	X'9	0	X015RESP	"XPLRESP" Response byte equate
72	(48)	X'80	0	X015BYPS	"XPLREB0" Response bit to bypass the current PDDB
16	(10)	ADDRESS	4	X015DCT	Address of the DCT
20	(14)	ADDRESS	4	X015JCT	Address of the JCT

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
24	(18)	ADDRESS	4	X015DSCT	Address of DSCT or zeroes
28	(1C)	ADDRESS	4	X015JQE	Address of the JQE
32	(20)	ADDRESS	4	X015WJOE	Address of the Work JOE
36	(24)	ADDRESS	4	X015CJOE	Address of the Characteristics JOE
40	(28)	ADDRESS	4	X015PDDB	Address of the current PDDB
44	(2C)	ADDRESS	4	X015SWBT	Address of the SWBTU pointer list for 1st data set for the current JOE or zero
48	(30)	SIGNED	2	X015NSWB	Number of SWBITs despoiled
50	(32)	SIGNED	2	X015RSVD	Reserved for future use
52	(34)	ADDRESS	4	X015PRTR	Address of the Print Translate Table
56	(38)	ADDRESS	4	X015CCWT	Address of the CCW Translate Table
60	(3C)	SIGNED	4	X015NCOP	Original number of copies of the data set to be printed
64	(40)	SIGNED	4	X015CPRT	Number of copies currently printed
68	(44)	ADDRESS	4	X015CPGP	Address of the Copy Group
72	(48)	SIGNED	4	X015CGCT	Current Copy Group Count
72	(48)	X'4C	0	X015SIZE	** -XPL" Size of XPL for Exit 1

Comment

Exit 20 XPL values

End of Comment

72	(48)	X'14	0	X020XID	"20" Exit 20 ID
72	(48)	BITSTRING	0	X020VERN	"X'01" Exit 20 XPL version number

Comment

Indicator byte equates

End of Comment

72	(48)	X'7	0	X020IND	"XPLIND" Indicator byte equate
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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
16	(10)	ADDRESS	4	X020JCT	Address of the JCT
20	(14)	ADDRESS	4	X020JQE	Address of the JQE
24	(18)	ADDRESS	4	X020DCT	Address of the DCT
24	(18)	X'1C	0	X020SIZE	** -XPL" Size of XPL for Exit 20

Comment

Exit 24 XPL values

End of Comment

24	(18)	BITSTRING	0	X024VERN	"X'01" Exit 24 XPL version number
24	(18)	X'18	0	X024XID	"24" Exit 24 id

\$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Indicator Byte Equates					
End of Comment					
24	(18)	X'7	0	X024IND	"XPLIND" Indicator Byte Equate
Comment					
Condition Byte Equates					
End of Comment					
24	(18)	X'8	0	X024COND	"XPLCOND" Condition Byte - Start Type
24	(18)	X'80	0	X024WARM	"\$WARM" Single-System Warm Start
24	(18)	X'40	0	X024HOT	"\$HOT" Hot start
24	(18)	X'20	0	X024QCK	"\$QUICK" Quick Start
24	(18)	X'10	0	X024ALLS	"\$CONFIG" All-Systems Warm-Start
24	(18)	X'8	0	X024ESYS	"\$ESYS" \$E SYS Restart
24	(18)	X'4	0	X024COLD	"\$COLD" Cold start
24	(18)	X'2	0	X024IPL	"\$MVS IPL" System was IPLed
24	(18)	X'1	0	X024COFM	"\$COLDFMT" Cold start with format
Comment					
Response Byte Equates					
End of Comment					
24	(18)	X'9	0	X024RESP	"XPLRESP" Response Byte
24	(18)	X'80	0	X024RSSI	"XPLREB0" Exit has built an Information string
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
Comment					
Exit 36 XPL values					
End of Comment					
22	(16)	BITSTRING	0	X036VERN	"X'01" Exit 36 XPL version number
22	(16)	X'24	0	X036XID	"36" Exit 36 id
Comment					
Indicator Byte Equates					
End of Comment					
22	(16)	X'7	0	X036IND	"XPLIND" Indicator byte
Comment					
Condition Byte Equates					
End of Comment					
22	(16)	X'8	0	X036COND	"XPLCOND" Condition byte
22	(16)	X'80	0	X036JES2	"XPLCOB0" JES2 exit caller
22	(16)	X'40	0	X036USER	"XPLCOB1" User exit caller
Comment					
Response Byte Equates					
End of Comment					

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
22	(16)	X'9 '	0	X036RESP	"XPLRESP" Response byte
22	(16)	X'2 '	0	X036NORC	"XPLREB6" Exit-specified return/reason codes to be used
22	(16)	X'1 '	0	X036BYPS	"XPLREB7" Bypass SAF call
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)	BITSTRING	0	X037VERN	"X'01" Exit 37 XPL version number
36	(24)	X'25 '	0	X037XID	"37" Exit 37 id

Comment

Indicator Byte Equates

End of Comment

36	(24)	X'7 '	0	X037IND	"XPLIND" Indicator byte
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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
16	(10)	ADDRESS	4	X037PARM	RACROUTE parm list WAVRACRP
20	(14)	ADDRESS	4	X037WAVE	Address of \$WAVE
24	(18)	CHARACTER	4	X037RCBN	Acronym of function related control block
28	(1C)	ADDRESS	4	X037RCBA	Address of function related control block
32	(20)	SIGNED	4	X037RETC	Exit-supplied return code
36	(24)	SIGNED	4	X037RSNC	Exit-supplied reason code
36	(24)	X'28 '	0	X037SIZE	** -XPL" Size of XPL for exit 37

Comment

Exit 38 XPL values

End of Comment

36	(24)	BITSTRING	0	X038VERN	"X'01" Exit 38 XPL version number
36	(24)	X'26 '	0	X038XID	"38" Exit 38 id

Comment

Indicator Byte Equates

End of Comment

36	(24)	X'7 '	0	X038IND	"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					
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
16	(10)	ADDRESS	4	X038PSO	Address of PSO
20	(14)	ADDRESS	4	X038JOE	Address of JOE
20	(14)	X'18	0	X038SIZE	"*-XPL" Size of XPL for exit 38
Comment					
Exit 39 XPL values					
End of Comment					
20	(14)	BITSTRING	0	X039VERN	"X'01" Exit 39 XPL version number
20	(14)	X'27	0	X039XID	"39" Exit 39 id
Comment					
Indicator Byte Equates					
End of Comment					
20	(14)	X'7	0	X039IND	"XPLIND" Indicator byte
Comment					
Condition Byte Equates					
End of Comment					
20	(14)	X'8	0	X039COND	"XPLCOND" Condition byte
Comment					
Response Byte Equates					
End of Comment					
20	(14)	X'9	0	X039RESP	"XPLRESP" Response byte
20	(14)	X'80	0	X039RECV	"XPLREB0" Allow data set receive
16	(10)	ADDRESS	4	X039PDDDB	PDDDB address
20	(14)	ADDRESS	4	X039JCT	JCT address
24	(18)	ADDRESS	4	X039NDH	Data set header address
24	(18)	X'1C	0	X039SIZE	"*-XPL" Length of Exit 39 parm list
Comment					
Exit 40 XPL values					
End of Comment					
24	(18)	BITSTRING	0	X040VERN	"X'01" Exit 40 XPL version number
24	(18)	X'28	0	X040XID	"40" Exit 40 id

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Indicator Byte Equates					
End of Comment					
24	(18)	X'7	0	X040IND	"XPLIND" Indicator byte
24	(18)	BITSTRING	0	X040SPIN	"X'80" This is a spin data set
24	(18)	BITSTRING	0	X040NSPN	"X'40" This is a non-spin data set
24	(18)	BITSTRING	0	X040UNSP	"X'20" This is an unspun data set
Comment					
Condition Byte Equates					
End of Comment					
24	(18)	X'8	0	X040COND	"XPLCOND" Condition byte equate
Comment					
Response Byte Equates					
End of Comment					
24	(18)	X'9	0	X040RESP	"XPLRESP" Response byte
16	(10)	ADDRESS	4	X040PDDDB	Address of PDDDB
20	(14)	ADDRESS	4	X040JQE	Address of JQE
24	(18)	ADDRESS	4	X040JCT	Address of JCT
28	(1C)	ADDRESS	4	X040DSCT	Address of DSCT
28	(1C)	X'20	0	X040SIZE	**"XPL" Length of Exit 40 xpl
Comment					
Exit 41 XPL values					
End of Comment					
28	(1C)	BITSTRING	0	X041VERN	"X'01" Exit 41 XPL version number
28	(1C)	X'29	0	X041XID	"41" Exit 41 id
Comment					
Indicator Byte Equates					
End of Comment					
28	(1C)	X'7	0	X041IND	"XPLIND" Indicator byte
Comment					
Condition Byte Equates					
End of Comment					
28	(1C)	X'8	0	X041COND	"XPLCOND" Condition byte
Comment					
Response byte equates					
End of Comment					
28	(1C)	X'9	0	X041RESP	"XPLRESP" Response byte
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

\$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
24	(18)	X'20	0	X041SIZE	**-"XPL" Size of XPL for exit 41
Comment					
Exit 42 XPL values					
End of Comment					
24	(18)	BITSTRING	0	X042VERN	"X'01" Exit 42 XPL version number
24	(18)	X'2A	0	X042XID	"42" Exit 42 id
Comment					
Indicator Byte Equates					
End of Comment					
24	(18)	X'7	0	X042IND	"XPLIND" Indicator byte
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
24	(18)	X'1	0	X042NOST	"XPLCOB7" Storage unobtainable
Comment					
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
16	(10)	ADDRESS	4	X042SSNU	Address of SSOB ext SSNU
20	(14)	SIGNED	2	X042NEWN	New binary node to use
22	(16)	SIGNED	2	X042REAS	Exit specified reason code
24	(18)	SIGNED	4	X042RC	Exit specified return code
24	(18)	X'1C	0	X042SIZE	**-"XPL" Length of Exit 42 xpl
Comment					
Exit 43 XPL values					
End of Comment					
24	(18)	BITSTRING	0	X043VERN	"X'01" Exit 43 XPL version number
24	(18)	X'2B	0	X043XID	"43" Exit 43 id
Comment					
Indicator Byte Equates					
End of Comment					
24	(18)	X'7	0	X043IND	"XPLIND" Indicator byte in parmlist
24	(18)	BITSTRING	0	X043TPS	"X'80" This is Transaction Select
24	(18)	BITSTRING	0	X043TPT	"X'40" This is Trans Terminate

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
24	(18)	BITSTRING	0	X043CHG	"X'20" This is Transaction Change
Comment					
Condition Byte Equates					
End of Comment					
24	(18)	X'8	0	X043COND	"XPLCOND" Condition byte
Comment					
Response Byte Equates					
End of Comment					
24	(18)	X'9	0	X043RESP	"XPLRESP" Response byte
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)	BITSTRING	0	X044VERN	"X'02" Exit 44 XPL version number
20	(14)	X'2C	0	X044XID	"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	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
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)	BITSTRING	0	X045VERN	"X'01" Exit 45 XPL version number
20	(14)	X'2D'	0	X045XID	"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
20	(14)	X'1'	0	X045NOST	"XPLCOB7" Storage unobtainable
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
16	(10)	ADDRESS	4	X045SSSF	Address of SSOB ext SSSF
20	(14)	ADDRESS	4	X045SFRB	Address of SFRB
24	(18)	SIGNED	2	X045RSVD	Reserved
26	(1A)	SIGNED	2	X045REAS	Exit specified reason code

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
28	(1C)	SIGNED	4	X045RC	Exit specified return code
28	(1C)	X'20	0	X045SIZE	**"XPL" Length of Exit 45 xpl

Comment

Exit 46 XPL values

End of Comment

28	(1C)	BITSTRING	0	X046VERN	"X'01" Exit 46 XPL version number
28	(1C)	X'2E	0	X046XID	"46" Exit 46 id

Comment

Indicator byte equates

End of Comment

28	(1C)	X'7	0	X046IND	"XPLIND" Indicator byte
28	(1C)	BITSTRING	0	X046HDR	"B'10000000" Job Header call
28	(1C)	BITSTRING	0	X046TRL	"B'01000000" Job Trailer call
28	(1C)	BITSTRING	0	X046DSH	"B'00100000" Data Set Header call
28	(1C)	BITSTRING	0	X046RCCS	"B'00010000" RCCS Data Set Header call

Comment

Condition byte equates

End of Comment

28	(1C)	X'8	0	X046COND	"XPLCOND" Condition byte
28	(1C)	X'80	0	X046R1ST	"XPLCOB0" This RCCS header precedes the first data record

Comment

Response byte equates

End of Comment

28	(1C)	X'9	0	X046RESP	"XPLRESP" Response byte
28	(1C)	X'80	0	X046TERM	"XPLREB0" Terminate this transmission
28	(1C)	X'40	0	X046BYP	"XPLREB1" Bypass sending Hdr/Trlr
28	(1C)	BITSTRING	0	X046INV	"B'00111111" Invalid response bit map
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	X046JOE	Address of JOE (SYSOUT)
36	(24)	X'28	0	X046SIZE	**"XPL" Length of Exit 46 XPL

Comment

Exit 47 XPL values

End of Comment

36	(24)	BITSTRING	0	X047VERN	"X'01" Exit 47 XPL version number
36	(24)	X'2F	0	X047XID	"47" Exit 47 id

Comment

Indicator byte equates

End of Comment

36	(24)	X'7	0	X047IND	"XPLIND" Indicator byte
36	(24)	BITSTRING	0	X047HDR	"B'10000000" Job Header call
36	(24)	BITSTRING	0	X047TRL	"B'01000000" Job Trailer call
36	(24)	BITSTRING	0	X047DSH	"B'00100000" Data Set Header call

\$XPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
36	(24)	BITSTRING	0	X047RCCS	"B'00010000" RCCS Data Set Header call
36	(24)	BITSTRING	0	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					
36	(24)	X'8	0	X047COND	"XPLCOND" Condition byte
Comment					
Response byte equates					
End of Comment					
36	(24)	X'9	0	X047RESP	"XPLRESP" Response byte
36	(24)	X'80	0	X047TERM	"XPLREB0" Terminate this reception
36	(24)	BITSTRING	0	X047INV	"B'01111111" Invalid response bit map
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
32	(20)	X'24	0	X047SIZE	**"XPL" Length of Exit 47 XPL
Comment					
Exit 49 XPL values					
End of Comment					
32	(20)	BITSTRING	0	X049VERN	"X'01" Exit 49 XPL version number
32	(20)	X'31	0	X049XID	"49" Exit 49 id
Comment					
Indicator byte equates					
End of Comment					
32	(20)	X'7	0	X049IND	"XPLIND" Indicator byte
Comment					
Condition byte equates					
End of Comment					
32	(20)	X'8	0	X049COND	"XPLCOND" Condition byte
Comment					
Response byte equates					
End of Comment					
32	(20)	X'9	0	X049RESP	"XPLRESP" Response byte
32	(20)	X'80	0	X049SKIP	"XPLREB0" Skip this JQE
32	(20)	X'40	0	X049NOPT	"XPLREB1" Disallow initiator job selection optimization
32	(20)	X'3F	0	X049INV	"FF-X049SKIP-X049NOPT" Invalid response bit map
16	(10)	ADDRESS	4	X049JQE	Address of JQE
20	(14)	ADDRESS	4	X049QGT	Address of \$QGET parmlist
20	(14)	X'18	0	X049SIZE	**"XPL" Length of Exit 49 XPL

\$XPL Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
XPLBLEN	C	10	X008CBWR	10	40
XPLCOB0	8	80	X008COND	10	8
XPLCOB1	8	40	X008FSSM	10	8
XPLCOB2	8	20	X008IND	10	7
XPLCOB3	8	10	X008IOER	10	80
XPLCOB4	8	8	X008RESP	10	9
XPLCOB5	8	4	X008SIZE	10	14
XPLCOB6	8	2	X008VERN	10	1
XPLCOB7	8	1	X008XID	10	8
XPLCOND	8		X009BEXC	10	10
XPLEXLEV	6		X009BINC	28	
XPLID	0	5BE7D7D3	X009BVAL	1C	
XPLIND	7		X009CEXC	10	80
XPLLEVEL	4		X009CNCL	10	4
XPLPLUS	10		X009COND	10	8
XPLREB0	9	80	X009CONX	10	F0
XPLREB1	9	40	X009DBYT	40	
XPLREB2	9	20	X009DLIN	30	
XPLREB3	9	10	X009DPAG	38	
XPLREB4	9	8	X009DUMP	10	2
XPLREB5	9	4	X009IND	10	7
XPLREB6	9	2	X009INDX	10	F
XPLREB7	9	1	X009JCT	10	
XPLRESP	9		X009LEXC	10	40
XPLSIZE	A		X009LVAL	14	
XPLVERN	4	1	X009OLIR	10	40
XPLXITID	5		X009PEXC	10	20
X001CJOE	24		X009PINC	24	
X001COND	10	8	X009PVAL	18	
X001DCT	10		X009RESO	10	3
X001DFSP	10	80	X009RESP	10	9
X001DSCT	18		X009RESX	10	E0
X001HBUF	34		X009RINC	20	
X001IND	10	7	X009SDEM	10	20
X001JCNT	10	20	X009SIZE	48	48
X001JCT	14		X009USER	10	8
X001JHDR	10	80	X009USRB	10	10
X001JNWS	10	40	X009VERN	10	2
X001JQE	1C		X009WARN	10	1
X001JTLR	10	40	X009XID	10	9
X001NSWB	30		X009XOVR	10	80
X001PDDB	28		X009722D	10	2
X001RESP	10	9	X009722N	10	1
X001RSVD	32		X015BYPS	48	80
X001SIZE	34	38	X015CCWT	38	
X001SWBT	2C		X015CGCT	48	
X001VERN	10	1	X015CJOE	24	
X001WJOE	20		X015COND	48	8
X001XID	10	1	X015CPGP	44	
X007CBID	10		X015CPRT	40	
X007CBIN	34	10	X015DCT	10	
X007CBUN	34	20	X015DSCT	18	
X007CBWR	34	40	X015DSEL	48	80
X007COND	34	8	X015DSEP	48	40
X007IND	34	7	X015IND	48	7
X007IOER	34	80	X015JCT	14	
X007RESP	34	9	X015JQE	1C	
X007SIZE	10	14	X015NCOP	3C	
X007VERN	34	1	X015NSWB	30	
X007XID	34	7	X015PDDB	28	
X008CBID	10		X015PRTR	34	
X008CBIN	10	10	X015RESP	48	9
X008CBUN	10	20	X015RFSW	48	80

\$XPL Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
X015RSVD	32		X037RETC	20	
X015SEPP	48	40	X037RSNC	24	
X015SIZE	48	4C	X037SIZE	24	28
X015SWBT	2C		X037USER	24	40
X015VERN	48	1	X037VERN	24	1
X015WJOE	20		X037WAVE	14	
X015XID	48	F	X037XID	24	25
X020BSAF	48	20	X038COND	24	8
X020COND	48	8	X038IND	24	7
X020DCT	18		X038JOE	14	
X020GJOB	48	80	X038KEEP	24	80
X020IND	48	7	X038PSO	10	
X020JCT	10		X038RESP	24	9
X020JECL	48	40	X038SIZE	14	18
X020JQE	14		X038VERN	24	1
X020NORM	48	80	X038XID	24	26
X020OUTP	48	40	X039COND	14	8
X020PURG	48	20	X039IND	14	7
X020RESP	48	9	X039JCT	14	
X020SIZE	18	1C	X039NDH	18	
X020VERN	48	1	X039PDDB	10	
X020WSEL	48	10	X039RECV	14	80
X020XID	48	14	X039RESP	14	9
X024ALLS	18	10	X039SIZE	18	1C
X024COFM	18	1	X039VERN	14	1
X024COLD	18	4	X039XID	14	27
X024COND	18	8	X040COND	18	8
X024ESYS	18	8	X040DSCT	1C	
X024HOT	18	40	X040IND	18	7
X024IND	18	7	X040JCT	18	
X024IPL	18	2	X040JQE	14	
X024QCK	18	20	X040NSPN	18	40
X024RESP	18	9	X040PDDB	10	
X024RSSI	18	80	X040RESP	18	9
X024SIZE	16	18	X040SIZE	1C	20
X024SSIA	10		X040SPIN	18	80
X024SSIL	16		X040UNSP	18	20
X024SSWL	14		X040VERN	18	1
X024VERN	18	1	X040XID	18	28
X024WARM	18	80	X041COND	1C	8
X024XID	18	18	X041DEFN	14	
X036BYPS	16	1	X041GGKT	10	
X036COND	16	8	X041IND	1C	7
X036IND	16	7	X041JDVT	18	
X036JES2	16	80	X041RESP	1C	9
X036NORC	16	2	X041RSVN	16	18
X036PARM	10		X041SIZE	18	20
X036RCBA	1C		X041TOTN	16	
X036RCBN	18		X041VERN	1C	1
X036RESP	16	9	X041XID	1C	29
X036RETC	20		X042CANC	18	80
X036RSNC	24		X042COND	18	8
X036SIZE	24	28	X042DERR	18	2
X036USER	16	40	X042EMSG	18	40
X036VERN	16	1	X042EXTE	18	10
X036WAVE	14		X042IND	18	7
X036XID	16	24	X042NEWN	14	
X037COND	24	8	X042NOAU	18	8
X037IND	24	7	X042NOCH	18	20
X037JES2	24	80	X042NOST	18	1
X037NORC	24	2	X042NOXT	18	20
X037PARM	10		X042RC	18	
X037RCBA	1C		X042REAS	16	
X037RCBN	18		X042RESP	18	9
X037RESP	24	9	X042SETR	18	40

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
X042SIZE	18	1C	X046PDDB	20	
X042SSNU	10		X046RCCS	1C	10
X042UERR	18	4	X046RESP	1C	9
X042VERN	18	1	X046R1ST	1C	80
X042XID	18	2A	X046SIZE	24	28
X043CHG	18	20	X046TERM	1C	80
X043COND	18	8	X046TRL	1C	40
X043IND	18	7	X046VERN	1C	1
X043JCT	14		X046XID	1C	2E
X043RESP	18	9	X047BJQE	24	8
X043SIZE	14	18	X047COND	24	8
X043SJB	10		X047DCT	1C	
X043TPS	18	80	X047DSH	24	20
X043TPT	18	40	X047HADR	10	
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X043XID	18	2B	X047IND	24	7
X044CNVQ	14	20	X047INV	24	7F
X044CNWT	14	20	X047JCT	14	
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X044CPER	14	8	X047PDDB	20	
X044DLGN	14	80	X047RCCS	24	10
X044FKOF	14	40	X047RESP	24	9
X044IND	14	7	X047SIZE	20	24
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X044JCLO	14		X047TRL	24	40
X044JCT	10		X047VERN	24	1
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X044PURQ	14	40	X049IND	20	7
X044RESP	14	9	X049INV	20	3F
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X046HADR	10				
X046HDR	1C	80			
X046IND	1C	7			
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X046JCT	1C				
X046JOE	24				
X046JQE	18				

\$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
216	(D8)	SIGNED	4	XPWREQ	XCF REQUEST QUEUE
220	(DC)	BITSTRING	1	XPWGFLG1	Group event processing
220	(DC)	BITSTRING	0	XPWGFMD	"B'00000001" Member found for \$ESYS,SID
221	(DD)	BITSTRING	1	XPWFLAG2	Recovery processing flag
221	(DD)	BITSTRING	0	XPW2ACTV	"B'10000000" PCE active
221	(DD)	BITSTRING	0	XPW2RCVY	"B'01000000" Recovery active
221	(DD)	BITSTRING	0	XPW2REC1	"B'00100000" Once through recovery
222	(DE)	BITSTRING	2		Reserved for IBM use
224	(E0)	BITSTRING	12	XPWSTQE	\$STIMER queue element
236	(EC)	SIGNED	4		Reserved for IBM use
240	(F0)	SIGNED	4		Reserved for IBM use
244	(F4)	SIGNED	4		Reserved for IBM use
244	(F4)	X'20 '	0	XPWPCEWL	"*-PCEWORK" LENGTH OF PCE WORK AREA

\$XPWORK Cross Reference

\$XPWORK Cross Reference

Name	Hex Offset	Hex Value
XPWFLAG2	DD	
XPWGFLG1	DC	
XPWGFMD	DC	1
XPWPCEWL	F4	20
XPWREQ	D8	
XPWSTQE	E0	
XPW2ACTV	DD	80
XPW2RCVY	DD	40
XPW2REC1	DD	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)
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
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)
28	(1C)	SIGNED	4	XREQLEN	Data length (no prefix)
32	(20)	BITSTRING	80		Reserved for future use
32	(20)	X'70'	0	XREQBASE	**XREQ" Length of base section

\$XREQ Map

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

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

End of Comment					
112	(70)	DBL WORD	8	XREQDATA (0)	Start of data area
Comment					
<p>Issue \$SCAN request (XREQINFO = 1)</p> <p>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).</p> <p>Valid action types are:</p> <ul style="list-style-type: none"> \$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 <p>Example:</p> <p>Sending buffer (? = X'15' in example)</p> <p>\$D CKPTDEF MODE ?\$D SPOOLDEF VOLUME</p> <p>Response</p> <p>CKPTDEF MODE=DUAL ?SPOOLDEF VOLUME=SPOL1 ?</p>					
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					
<p>Update status request (XREQINFO = 2)</p> <p>This request passes updated status information to all members. There is no response data.</p>					
End of Comment					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	8	XRESTNAM	JES2 member name
128	(80)	DBL WORD	8	XRESTTIM	Time of last CKPT access
136	(88)	SIGNED	4	XREAHOLD	Actual HOLD value
140	(8C)	SIGNED	4	XREADORM	Actual dormancy value
140	(8C)	X'90	0	XRESTLEN	"*-XREQ" Total length of request

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Update JWEL/TJEV status (XREQINFO = 3) This request passes a JOE offset and JOE creation time which are used to manage the removal of JWELs and TJEVs. 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
124	(7C)	X'80	0	XREJOELN	** -XREQ" Total length of request
124	(7C)	X'20	0	XREJOELW	"(*-XREQ+3)/4" Total length in words
Comment					
----- End of variable sections -----					
End of Comment					

\$XREQ Cross Reference

Name	Hex Offset	Hex Value
XREADORM	8C	
XREAHOLD	88	
XREJOECR	7C	
XREJOELN	7C	80
XREJOELW	7C	20
XREJOEOF	78	
XREQBASE	20	70
XREQDATA	70	
XREQDATO	18	
XREQFRC	C	
XREQID	0	E7D9C5D8
XREQINFO	6	
XREQJOE	6	3
XREQLEN	1C	
XREQMSG	5	D9
XREQRESP	5	C1
XREQSCAN	6	1
XREQSTAT	6	2
XREQTKN	8	
XREQTYPE	5	
XREQVER	4	
XREQVERN	4	1
XRESCADA	78	
XRESCARC	70	
XRESCAST	78	
XRESTLEN	8C	90
XRESTNAM	78	
XRESTTIM	80	

\$XREQ Cross Reference

\$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
8	(8)	BITSTRING	0	XRQTYSG	"B'10000000" System gone
8	(8)	BITSTRING	0	XRQTYMEM	"B'01000000" Member status change
8	(8)	BITSTRING	0	XRQTYUSR	"B'00100000" User state change
9	(9)	BITSTRING	1	XRQJXCF	JESXCF flag byte
9	(9)	BITSTRING	0	XRQDOWN	"B'10000000" Member has gone down
9	(9)	BITSTRING	0	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'1C'	0	XRQSIZE	"*-XRQ" Size of XRQ DSECT

\$XRQ Cross Reference

Name	Hex Offset	Hex Value
XRQDOWN	9	80
XRQGEPL	18	
XRQGEPUS	F4	
XRQID	0	
XRQJXCF	9	
XRQMEMB	A	
XRQNEXT	10	
XRQSID	C	
XRQSIZE	118	1C
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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This book also documents intended Programming Interfaces that allow the customer to write programs to obtain the services of OS/390.

This information is identified where it occurs, either by an introductory statement to a chapter or section or by the following marking:

```
_____ Product-Sensitive Programming Interface _____  
                                     Data Area Name  
_____ End of Product-Sensitive Programming Interface _____
```

Unless otherwise specified, for data areas classified as programming interfaces, the **MACRO ID** in the header is 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**.

When an entire data area is classified as a programming interface, "RESERVED FOR USER" fields are part of the interface; all other "**RESERVED ...**" fields are **NOT** part of the interface.

If only certain fields in a data area are intended or not intended for use as a programming interface, the specific field name(s) are differentiated within this book.

For 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)

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z/OS
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Volume 3 (\$PADDR - \$XRQ)
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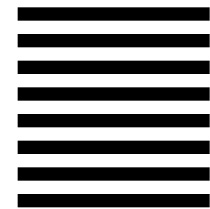
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