

z/OS  
3.2

*JES2 Data Areas Volume 2 (NAT - ZOD)*





**Note**

Before using this information and the product it supports, read the information in [“Notices” on page 1029](#).

This edition applies to IBM® z/OS® 3.2 (5655-ZOS) and to all subsequent releases and modifications until otherwise indicated in new editions.

Last updated: 2025-09-30

© **Copyright International Business Machines Corporation 1988, 2025.**

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.



---

# Contents

<b>Tables.....</b>	<b>vii</b>
<b>How to provide feedback to IBM.....</b>	<b>xxiii</b>
<b>Chapter 1. JES2 data areas.....</b>	<b>1</b>
\$NAT information.....	1
\$NCPE information.....	7
\$NHD information.....	8
\$NIT information.....	34
\$NJTWORK information.....	41
\$NPIPARM information.....	43
\$NRMWORK information.....	44
\$NSACT information.....	47
\$NSCT information.....	48
\$NSRWORK information.....	53
\$NSST information.....	58
\$NSTWORK information.....	61
\$NSWE information.....	66
\$NTRDATA information.....	70
\$NTW information.....	72
\$NVL information.....	77
\$OCR information.....	78
\$OCT information.....	81
\$ODPARM information.....	83
\$OPAWORK information.....	88
\$OUTWORK information.....	89
\$PAD information.....	93
\$PADDR information.....	97
\$PARMLST information.....	132
\$PARMWRK information.....	210
\$PBLK information.....	216
\$PCE information.....	219
\$PCL information.....	230
\$PCT information.....	240
\$PCTAB information.....	247
\$PCYWORK information.....	250
\$PDDB information.....	255
\$PERFCB information.....	267
\$PIT information.....	293
\$PPPWORK information.....	297
\$PQE information.....	312
\$PREBERT information.....	316
\$PRGWORK information.....	321
\$PSO information.....	324
\$PSOWORK information.....	330
\$PSV information.....	334
\$QSE information.....	340
\$RAT information.....	346
\$RCPWORK information.....	350
\$RDRWORK information.....	360



\$RECY information.....	366
\$REQJID information.....	369
\$RESNAM information.....	370
\$RESWORK information.....	373
\$RJCB information.....	381
\$ROTT information.....	385
\$SAFINFO information.....	405
\$SAPID information.....	410
\$SBMT information.....	419
\$SBWA information.....	423
\$SCAND information.....	433
\$SCANWA information.....	435
\$SCAT information.....	456
\$SCID information.....	458
\$SCK information.....	462
\$SCT information.....	464
\$SDB information.....	468
\$SFRB information.....	492
\$SFRWORK information.....	496
\$SFSWORK information.....	498
\$SIG information.....	501
\$SJB information.....	502
\$SJIOB information.....	521
\$SJXB information.....	525
\$SMF information.....	542
\$SNFWORK information.....	645
\$SPIWORK information.....	647
\$SPMWORK information.....	654
\$SPNWORK information.....	657
\$SPOOLCB information.....	659
\$SQD information.....	661
\$SRW information.....	666
\$STAC information.....	676
\$STCWORK information.....	679
\$STW information.....	680
\$SWBIT information.....	689
\$SXADDR information.....	692
\$SYMCB information.....	726
\$S35D information.....	733
\$TAB information.....	735
\$TED information.....	737
\$TEWA information.....	742
\$TEXWORK information.....	744
\$TGB information.....	745
\$TIMWORK information.....	748
\$TLGWORK information.....	749
\$TQE information.....	753
\$TRCA information.....	755
\$TRE information.....	763
\$TRX information.....	777
\$TTETBL information.....	781
\$WARMWRK information.....	783
\$WAVE information.....	798
\$WLMD information.....	819
\$WSA information.....	832
\$WSC information.....	840
\$WSP information.....	842
\$XBCWORK information.....	845



\$XCMWORK information.....	850
\$XECB information.....	855
\$XEQWORK information.....	857
\$XFMWORK information.....	874
\$XIT information.....	876
\$XMAS information.....	878
\$XPL information.....	902
\$XPWORK information.....	959
\$XREQ information.....	961
\$XRQ information.....	982
\$ZJC information.....	984
<b>Appendix A. Accessibility.....</b>	<b>1027</b>
<b>Notices.....</b>	<b>1029</b>
Terms and conditions for product documentation.....	1030
IBM Online Privacy Statement.....	1031
Policy for unsupported hardware.....	1031
Minimum supported hardware.....	1031
Trademarks.....	1032
<b>Index.....</b>	<b>1033</b>







---

# Tables

1. Structure NAT.....	2
2. Cross Reference for \$NAT.....	5
3. Structure NCPE.....	8
4. Structure NJH.....	9
5. Structure NJH2.....	11
6. Structure NJHE.....	12
7. Structure NJHT.....	12
8. Structure NJHA.....	12
9. Structure NJHU.....	13
10. Structure NJHOX.....	13
11. Structure NJHO.....	14
12. Structure NJT.....	16
13. Structure NJTS.....	17
14. Structure NJTU.....	17
15. Structure NJTO.....	18
16. Structure NDH.....	18
17. Structure NDHA.....	19
18. Structure NDHS.....	20
19. Structure NDHC.....	20
20. Structure NDHT.....	20
21. Structure NDHU.....	21
22. Structure NDHO.....	21
23. Structure NDHOX.....	21



24. Cross Reference for \$NHD.....	23
25. Structure NIT.....	35
26. Structure NITPSECT.....	37
27. Structure NITC.....	38
28. Structure NITC0.....	38
29. Cross Reference for \$NIT.....	38
30. Structure PCE.....	42
31. Cross Reference for \$NJTWORK.....	42
32. Structure NPISPARM.....	43
33. Structure PCE.....	44
34. Cross Reference for \$NRMWORK.....	46
35. Structure NSACT.....	47
36. Structure NSCT.....	48
37. Cross Reference for \$NSCT.....	51
38. Structure PCE.....	54
39. Cross Reference for \$NSRWORK.....	56
40. Structure NSST.....	59
41. Cross Reference for \$NSST.....	60
42. Structure PCE.....	62
43. Cross Reference for \$NSTWORK.....	64
44. Structure NSWE.....	66
45. Cross Reference for \$NSWE.....	69
46. Structure NTR.....	71
47. Cross Reference for \$NTRDATA.....	72
48. Structure NTW.....	73



49. Cross Reference for \$NTW.....	75
50. Structure NVL.....	77
51. Cross Reference for \$NVL.....	77
52. Structure OCR.....	79
53. Cross Reference for \$OCR.....	80
54. Structure OCT.....	82
55. Cross Reference for \$OCT.....	83
56. Structure ODPARM.....	84
57. Cross Reference for \$ODPARM.....	86
58. Structure PCE.....	89
59. Structure PCE.....	90
60. Cross Reference for \$OUTWORK.....	92
61. Structure PAD.....	94
62. Structure PADE.....	95
63. Structure PADA.....	96
64. Cross Reference for \$PAD.....	96
65. Structure PADDR.....	98
66. Cross Reference for \$PADDR.....	118
67. Structure PARMLIST.....	132
68. Cross Reference for \$PARMLST.....	178
69. Structure PRW.....	210
70. Cross Reference for \$PARMWRK.....	214
71. Structure PBLK.....	217
72. Structure PBLMQTRE.....	217
73. Structure PBLCCWS.....	217



74. Cross Reference for \$PBLK.....	218
75. Structure PCE.....	222
76. Cross Reference for \$PCE.....	226
77. Structure PCL.....	231
78. Structure PCLJT.....	234
79. Structure PCLJR.....	235
80. Structure PCLST.....	235
81. Structure PCLSR.....	236
82. Cross Reference for \$PCL.....	236
83. Structure PCT.....	241
84. Cross Reference for \$PCT.....	244
85. Structure PCRT.....	248
86. Cross Reference for \$PCTAB.....	249
87. Structure PCE.....	250
88. Cross Reference for \$PCYWORK.....	253
89. Structure PDB.....	256
90. Cross Reference for \$PDDB.....	262
91. Structure PERFCB.....	269
92. Structure INITSTAT.....	269
93. Structure PERFCB.....	269
94. Structure QSUCB.....	270
95. Structure PERFCB.....	270
96. Structure PPB.....	271
97. Structure PERFCB.....	271
98. Structure GTPTDAT.....	272



99. Structure PERFCB.....	272
100. Structure PTPB.....	272
101. Structure PERFCB.....	272
102. Structure WTCB.....	272
103. Structure PERFCB.....	273
104. Structure PSCBD.....	273
105. Structure PERFCB.....	273
106. Structure EVENT.....	274
107. Structure PERFCB.....	275
108. Structure PCBCKIO.....	275
109. Structure PERFCB.....	276
110. Structure PCBSBST.....	276
111. Structure PERFCB.....	277
112. Structure PMIG.....	277
113. Structure PERFCB.....	278
114. Structure PCBQGST.....	279
115. Structure PERFCB.....	281
116. Structure PCBMAS.....	281
117. Structure PCBMASE.....	281
118. Structure PERFCB.....	282
119. Structure PCBXREQ.....	282
120. Structure PERFCB.....	282
121. Cross Reference for \$PERFCB.....	282
122. Structure PIT.....	294
123. Cross Reference for \$PIT.....	296



124. Structure PCE.....	298
125. Cross Reference for \$PPPWORK.....	306
126. Structure PQE.....	313
127. Cross Reference for \$PQE.....	315
128. Structure PREBERT.....	317
129. Structure PBEUSER.....	319
130. Cross Reference for \$PREBERT.....	320
131. Structure PCE.....	322
132. Cross Reference for \$PRGWORK.....	323
133. Structure PSO.....	324
134. Cross Reference for \$PSO.....	328
135. Structure PCE.....	331
136. Cross Reference for \$PSOWORK.....	333
137. Structure PSV.....	335
138. Structure PSVAREGS.....	336
139. Structure PSV64.....	337
140. Cross Reference for \$PSV.....	337
141. Structure QSE.....	341
142. Cross Reference for \$QSE.....	344
143. Structure RAT.....	347
144. Cross Reference for \$RAT.....	349
145. Structure PCE.....	351
146. Cross Reference for \$RCPWORK.....	356
147. Structure PCE.....	361
148. Structure RDWPUTPL.....	363



149. Cross Reference for \$RDRWORK.....	364
150. Structure RECYDAS.....	367
151. Cross Reference for \$RECY.....	368
152. Structure RJI.....	369
153. Structure RESNAM.....	371
154. Cross Reference for \$RESNAM.....	372
155. Structure PCE.....	374
156. Cross Reference for \$RESWORK.....	378
157. Structure RJCB.....	382
158. Cross Reference for \$RJCB.....	384
159. Structure ROTT.....	386
160. Structure ROTE.....	386
161. Cross Reference for \$ROTT.....	396
162. Structure SAFINFO.....	406
163. Cross Reference for \$SAFINFO.....	408
164. Structure SAPID.....	411
165. Structure TJEV.....	415
166. Cross Reference for \$SAPID.....	416
167. Structure SBMT.....	420
168. Structure SBMT24.....	422
169. Cross Reference for \$SBMT.....	422
170. Structure SBWA.....	423
171. Structure SBWAMQTB.....	429
172. Cross Reference for \$SBWA.....	429
173. Structure SCDW.....	433



174. Cross Reference for \$SCAND.....	434
175. Structure SCWA.....	436
176. Structure SCWADA.....	445
177. Structure SCWABA.....	446
178. Structure XWCWA.....	446
179. Structure SCWA.....	447
180. Cross Reference for \$SCANWA.....	447
181. Structure SCAT.....	457
182. Cross Reference for \$SCAT.....	458
183. Structure SCID.....	459
184. Cross Reference for \$SCID.....	461
185. Structure SCK.....	463
186. Cross Reference for \$SCK.....	463
187. Structure SCT.....	465
188. Structure SCTTRENT.....	466
189. Cross Reference for \$SCT.....	467
190. Structure SDB.....	469
191. Structure ASOK.....	481
192. Structure SIWSRBP.....	481
193. Cross Reference for \$SDB.....	482
194. Structure SFRB.....	493
195. Cross Reference for \$SFRB.....	494
196. Structure PCE.....	497
197. Cross Reference for \$SFRWORK.....	497
198. Structure SFSWORK.....	498



199. Cross Reference for \$SFSWORK.....	500
200. Structure SIG.....	502
201. Structure SJB.....	506
202. Cross Reference for \$SJB.....	514
203. Structure SJIOB.....	521
204. Cross Reference for \$SJIOB.....	523
205. Structure SJXB.....	526
206. Structure SJXDEB.....	533
207. Cross Reference for \$SJXB.....	539
208. Structure SMF.....	543
209. Structure SMFHDR.....	544
210. Structure SMFHDR1.....	545
211. Structure SMFHDR2.....	546
212. Structure SMF.....	548
213. Structure SMF.....	554
214. Structure SMF84HDR.....	593
215. Structure SMF84PRO.....	594
216. Structure SMF84GS.....	595
217. Structure SMF84JRU.....	596
218. Structure R84MEMJ2.....	597
219. Structure R84RSUJ2.....	597
220. Structure SMF.....	598
221. Structure SMF1153_HDR.....	598
222. Structure SMF1153_PRO.....	599
223. Structure SMF1153_GEN.....	600



224. Structure SMF1153_JRU.....	601
225. Structure SMF1153_MEM.....	601
226. Structure SMF1153_RSU.....	601
227. Structure SMF.....	602
228. Structure SMF1154.....	602
229. Structure SMF1154_CTRP.....	602
230. Structure SMF1154_C_HDR.....	603
231. Structure SMF1154_114_JES2HDR.....	606
232. Structure SMF1154_114_J2COM.....	607
233. Structure SMF1154_114_J2JCLASS.....	607
234. Structure SMF.....	608
235. Cross Reference for \$SMF.....	608
236. Structure PCE.....	646
237. Cross Reference for \$SNFWORK.....	646
238. Structure PCE.....	648
239. Cross Reference for \$SPIWORK.....	651
240. Structure PCE.....	655
241. Cross Reference for \$SPMWORK.....	656
242. Structure PCE.....	658
243. Cross Reference for \$SPNWORK.....	659
244. Structure SPCB.....	660
245. Cross Reference for \$SPOOLCB.....	660
246. Structure SQD.....	662
247. Cross Reference for \$SQD.....	664
248. Structure SRW.....	666



249. Cross Reference for \$SRW.....	672
250. Structure STAC.....	677
251. Cross Reference for \$STAC.....	678
252. Structure PCE.....	680
253. Cross Reference for \$STCWORK.....	680
254. Structure STW.....	681
255. Cross Reference for \$STW.....	685
256. Structure SWBIT.....	690
257. Cross Reference for \$SWBIT.....	691
258. Structure SXADDR.....	693
259. Cross Reference for \$SXADDR.....	711
260. Structure SYM.....	726
261. Cross Reference for \$SYMCB.....	730
262. Structure S35DSECT.....	734
263. Cross Reference for \$S35D.....	734
264. Structure TAB.....	736
265. Cross Reference for \$TAB.....	737
266. Structure TED.....	738
267. Structure TEDE.....	740
268. Cross Reference for \$TED.....	740
269. Structure TEWA.....	743
270. Cross Reference for \$TEWA.....	743
271. Structure PCE.....	745
272. Structure TGB.....	746
273. Structure BTE.....	747



274. Structure TGR.....	747
275. Cross Reference for \$TGB.....	747
276. Structure PCE.....	749
277. Structure PCE.....	750
278. Cross Reference for \$TLGWORK.....	752
279. Structure .....	754
280. Structure \$TQE.....	754
281. Cross Reference for \$TQE.....	755
282. Structure TRCA.....	756
283. Structure TRCALSTD.....	760
284. Cross Reference for \$TRCA.....	760
285. Structure TRE.....	764
286. Cross Reference for \$TRE.....	772
287. Structure TRX.....	778
288. Cross Reference for \$TRX.....	779
289. Structure TTETBL.....	782
290. Cross Reference for \$TTETBL.....	783
291. Structure PCE.....	784
292. Cross Reference for \$WARMWRK.....	792
293. Structure WAVE.....	799
294. Cross Reference for \$WAVE.....	816
295. Structure WLMD.....	820
296. Cross Reference for \$WLMD.....	827
297. Structure WSA.....	833
298. Cross Reference for \$WSA.....	836



299. Structure WSC.....	840
300. Cross Reference for \$WSC.....	842
301. Structure WSC.....	843
302. Cross Reference for \$WSP.....	845
303. Structure XBCWORK.....	846
304. Cross Reference for \$XBCWORK.....	848
305. Structure PCE.....	850
306. Cross Reference for \$XCMWORK.....	853
307. Structure XECB.....	856
308. Cross Reference for \$XECB.....	857
309. Structure PCE.....	858
310. Cross Reference for \$XEQWORK.....	867
311. Structure PCE.....	875
312. Cross Reference for \$XFMWORK.....	876
313. Structure XIT.....	877
314. Cross Reference for \$XIT.....	878
315. Structure XMA.....	879
316. Structure XMAQENT.....	888
317. Structure XMAXUS.....	891
318. Cross Reference for \$XMAS.....	892
319. Structure XPL.....	903
320. Cross Reference for \$XPL.....	935
321. Structure PCE.....	959
322. Structure XNFELEM.....	960
323. Cross Reference for \$XPWORK.....	960



324. Structure XREQ.....	962
325. Structure XRECMBRE.....	973
326. Structure XZGLENT.....	973
327. Structure XREQ.....	973
328. Cross Reference for \$XREQ.....	974
329. Structure XRQ.....	983
330. Cross Reference for \$XRQ.....	983
331. Structure ZJC.....	987
332. Structure ZJC.....	987
333. Structure ZJC.....	990
334. Structure ZJC.....	994
335. Structure JDBLDWRK.....	997
336. Structure JDJSETEL.....	998
337. Structure JDWERROR.....	998
338. Structure JDWHENWK.....	999
339. Structure JDNETDEF.....	1000
340. Structure JDNELELM.....	1002
341. Structure JPARSEST.....	1002
342. Structure JDPERTSK.....	1003
343. Structure JRPNELEM.....	1003
344. Structure JRMAXRC.....	1004
345. Structure JDINWRKA.....	1004
346. Structure JDINSTKE.....	1005
347. Structure JDCIRENT.....	1005
348. Structure JDPCDATA.....	1006



349. Structure JDPCWLMT.....	1006
350. Structure MZODHDR.....	1006
351. Structure MZODJOB.....	1007
352. Structure MZDERROR.....	1008
353. Structure MZDWHEN.....	1009
354. Structure MZDINFIX.....	1009
355. Structure CONC1201.....	1009
356. Structure GRP1210.....	1011
357. Structure ZJCCNT.....	1011
358. Cross Reference for \$ZJC.....	1012







## How to provide feedback to IBM

---

We welcome any feedback that you have, including comments on the clarity, accuracy, or completeness of the information. For more information, see [How to send feedback to IBM](#).







---

# Chapter 1. JES2 data areas

This topic describes the JES2 data areas that are prefixed with NAT - ZOD.

## \$NAT information

---

### \$NAT programming interface information

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

- NATNTQ

### \$NAT heading information

<b>Common name:</b>	Nodes Attached Table Element
<b>Macro ID:</b>	\$NAT
<b>DSECT name:</b>	NAT
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	None
<b>Storage attributes:</b>	Subpool: n/a Key: 1 Residency: In the jesxNAT data space in cpool SAPID
<b>Size:</b>	See NATNATL for NAT NATNTQL for NTQ NATNATPL for NATP
<b>Created by:</b>	\$NATADD (NATs) HASPCOMM (NTQs) HASPMPM (NATPs)
<b>Pointed to by:</b>	MDCTNATP field of the DCT data area MDCTNPCH field of the DCT data area NATNEXT field of the NAT data area NATPREV field of the NAT data area NATPCHAN field of the NAT data area NATPNEXT field of the NAT data area NATPDNXT field of the NAT data area NATSCHAN field of the NAT data area NATNATP field of the NAT data area NATNTQ field of the NAT data area NITNAT field of the NIT data area NTKNAT field of the NTK data area PCTNATAT field of the PCT data area PCTNATAH field of the PCT data area PCTNATUT field of the PCT data area PCTNATUH field of the PCT data area PCTNATHT field of the PCT data area PCTNATHH field of the PCT data area PCTNATNH field of the PCT data area PCTNATNH field of the PCT data area



**Serialization:**

NTQs and NATPs are serialized by normal JES2 PCE serialization. When a NAT that was created by \$NATADD is updated, then PCT1NTUP must be set.

**Function:**

The NAT describes the connections that currently exist or have once existed between nodes in a network. It also maps the NTQ and the NATP which are special purpose NATs.

**\$NAT mapping**

Table 1. Structure NAT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NAT	
0	(0)	X'1'	0	NATVERN	"1" Version number of the NAT
0	(0)	BITSTRING	8	NATID(0)	UNIQUE NAT IDENTIFICATION
0	(0)	ADDRESS	3	NATPRI(0)	PRIMARY NODE ID
0	(0)	SIGNED	2	NATPRIN	PRIMARY NODE NUMBER
2	(2)	BITSTRING	1	NATPRIQ	PRIMARY NODE QUALIFIER
3	(3)	BITSTRING	1		RESERVED FOR FUTURE USE
4	(4)	ADDRESS	3	NATSEC(0)	SECONDARY NODE ID
4	(4)	SIGNED	2	NATSECN	SECONDARY NODE NUMBER
6	(6)	BITSTRING	1	NATSECQ	SECONDARY NODE QUALIFIER
7	(7)	BITSTRING	1		RESERVED FOR FUTURE USE
8	(8)	BITSTRING	1	NATNTYPE	TYPE OF NAT
		1... ....		NATNTNAT	"B'10000000'" REAL NAT ELEMENT
		.1.. ....		NATNTNTQ	"B'01000000'" TEMPORARY NAT (NTQ)
		..1. ....		NATNTNPT	"B'00100000'" Temporary MAS connection NATP (used during signon validation)
		...1 ....		NATNTNTP	"B'00010000'" Permanent MAS connection NATP(used after signon)
9	(9)	BITSTRING	1	NATTYPE	Type of NAT element
		1... ....		NATTSTAT	"B'10000000'" NAT is a static connect
		.1.. ....		NATTPM	"B'01000000'" NAT is specifically defined as a PATHMGR=YES connect
		..1. ....		NATTPMNO	"B'00100000'" NAT is specifically defined as a PATHMGR=NO connect
		...1 ....		NATTPMDE	"B'00010000'" NTQ is specifically defined as a PATHMGR=RESET connect
		.... 1...		NATTPRIV	"B'00001000'" NAT is a private connect
		.... .1..		NATTUNRE	"B'00000100'" NAT is a unreachable
		.... ..1.		NATTADJ	"B'00000010'" NAT is adjacent to this node and member
10	(A)	ADDRESS	2	NATREST	RESISTANCE OF CONNECTION
12	(C)	ADDRESS	4	NATEVNT	EVENT SEQUENCE
16	(10)	SIGNED	4		Reserved for future use
20	(14)	SIGNED	4	NATECOM(0)	End of common section
Node Attached Table unique Fields					
20	(14)	BITSTRING	1	NATSTATE	Current state of active NAT



Table 1. Structure NAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		NATSUMAX	"B'10000000'" NAT is unreachable due to \$MAXREST
		.1.. ..		NATSINUS	"B'01000000'" NAT is currently in use in some path
		..1. ....		NATSURCH	"B'00100000'" Static NAT with both nodes not connected
		...1 ....		NATSPEND	"B'00010000'" Adjacent static NAT has no active line
		.... 1...		NATSXTRA	"B'00001000'" NAT is not currently used in any path
21	(15)	BITSTRING	1	NATNSTAT	New state of the NAT (set by full path processing)
22	(16)	BITSTRING	2		Reserved for future use
24	(18)	ADDRESS	4	NATNEXT	Addr of next NAT on cur que
28	(1C)	ADDRESS	4	NATPREV	Addr of prev NAT on cur que
32	(20)	ADDRESS	4	NATPCHAN	Prim chain of NATs from NIT
36	(24)	ADDRESS	4	NATSECHAN	Sec chain of NATs from NIT
40	(28)	ADDRESS	4	NATPNIT	Addr of NIT for primary
44	(2C)	ADDRESS	4	NATSNIT	Addr of NIT for secondary
48	(30)	ADDRESS	4	NATANATP	Chain field for temp active queue (Used by NPMFPATH)
52	(34)	ADDRESS	4	NATNMPTR	Pointer to notify bit map
<p>The field NATALINE contains a DCT address that is considered to own this NAT. If neither NATPRI nor NATSEC is the local node, then NATALINE is DCT over which this status was first received. If either NATPRI or NATSEC is the local node, then NATALINE contains the LINE DCT address that has the least resistance to the other node on this member. It is not necessarily the primary trunk. NATNATP is a chain of NATPs (at most one per MAS member) which represent the best line from each member of a MAS. NATALINE will be zero if there is no line to the other node on this member.</p> <p>The fields defined by NATAUXCP must be copied between real NATs and AUX NATs whenever a AUX NAT is created.</p>					
56	(38)	SIGNED	4	NATAUXCS(0)	Start of fields copied to/from AUX NATs
56	(38)	ADDRESS	4	NATALINE	Address of owning DCT or zero.
60	(3C)	SIGNED	2	NATALNUM	Line number associated with NATALINE
62	(3E)	BITSTRING	2		Reserved
64	(40)	ADDRESS	4	NATNATP	Chain of NATPs representing connections from other MAS members
68	(44)	BITSTRING	1	NATMEMBP	For adjacent NATs, member with primary line
68	(44)	X'38'	0	NATAUXCP	"NATAUXCS,*-NATAUXCS" End of fields to copy
69	(45)	BITSTRING	1	NATCSTAT	Current status of NAT
		1... ..		NATCACT	"B'10000000'" NAT on active queue
		.1.. ..		NATCUNC	"B'01000000'" NAT unconnected
		..1. ....		NATCHLD	"B'00100000'" NAT on held queue
70	(46)	BITSTRING	1	NATNRANK	Order on NIT to NAT queue
70	(46)	X'0'	0	NATNRNUL	"0" NAT has yet to be ranked
70	(46)	X'4'	0	NATNRNMS	"4" ACTIVE, non-MAS connect



Table 1. Structure NAT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
70	(46)	X'8'	0	NATNRMAS	"8" ACTIVE, MAS connection
70	(46)	X'C'	0	NATNRSTA	"12" Static/Private connect
70	(46)	X'10'	0	NATNRHLD	"16" HELD connection
70	(46)	X'14'	0	NATNRINA	"20" INACTIVE connection
71	(47)	BITSTRING	1	NATVIFYQ	Flags used by NPMVFY to verify the NAT is on all queues
		1... ....		NATVFSTA	"B'10000000'" NAT is on a status queue
		.1.. ....		NATVFPRI	"B'01000000'" NAT is on the queue from the primary node's NIT
		..1. ....		NATVFSEC	"B'00100000'" NAT is on the queue from the secondary node's NIT
72	(48)	ADDRESS	4	NATNTIME	Time record was recieved or status last modified
76	(4C)	ADDRESS	4	NATAUX	Address of auxiliary NAT (PM defined NAT chained off identical static NAT)
80	(50)	ADDRESS	4	NATRTKN	TOKEN used during NAT verification
80	(50)	X'54'	0	NATNATL	"*-NAT" Length of NAT DSECT
Prototype NAT used for FULLPATH determination The following fields are only used during full path processing.					
20	(14)	BITSTRING	1	NATNPMF	Flag byte work area
21	(15)	BITSTRING	1		Reserved for future use
22	(16)	SIGNED	2	NATNPLEN	Path length work area
22	(16)	X'18'	0	NATFPTL	"*-NAT" Length of full path NAT
Nodes attached table queue element for use during initialization for the CONNECT statement. Also used for the \$ADD, \$DEL, \$D, and \$T connect commands.					
20	(14)	ADDRESS	4	NATNTQ	NTQ Chain field
24	(18)	CHARACTER	8	NATNTQNA	Primary node name (EBCDIC)
32	(20)	CHARACTER	8	NATNTQNB	2ndary node name (EBCDIC)
40	(28)	CHARACTER	8	NATNTQCN	Console id of console issuing command
48	(30)	BITSTRING	1	NATNTQF1	NTQ type field
		1... ....		NATNTQ1A	"B'10000000'" Add CONNECT
		.1.. ....		NATNTQ1T	"B'01000000'" Change (\$T) CONNECT
		..1. ....		NATNTQ1R	"B'00100000'" Delete CONNECT
		...1 ....		NATNTQ1P	"B'00010000'" PATHMGR= value was explicitly specified
49	(31)	BITSTRING	1	NATNTQF2	General NTQ flags
		1... ....		NATNTQ2P	"B'10000000'" Processed NTQ
		.... ..1		NATNTQ2C	"B'00000001'" NPMSIM Flag
50	(32)	BITSTRING	2		Reserved for future use
50	(32)	X'34'	0	NATNTQL	"*-NAT" Length of NTQ control block
Nodes attached table element for NJE connections out of other MAS members (NATP).					
20	(14)	ADDRESS	4	NATPNEXT	Next chained NATP (NAT chn)
24	(18)	ADDRESS	4	NATPDNXT	Next chained NATP (DCT chn)



Table 1. Structure NAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	ADDRESS	4	NATPNAT	NAT associated with NATP
32	(20)	ADDRESS	4	NATPDCT	DCT associated with NATP
36	(24)	ADDRESS	3	NATPAFTK	Owning memb affinity token
39	(27)	BITSTRING	1	NATPMEMB	Owning member's ID
40	(28)	BITSTRING	1	NATPFLG1	NATP flag byte
		1... ....		NATP1WAT	"B'10000000'" Don't send it yet
		.1.. ....		NATP1CMP	"B'01000000'" Signon done (got M recrd)
		..1. ....		NATP1PRS	"B'00100000'" Persistent connection
41	(29)	BITSTRING	3		Reserved
44	(2C)	CHARACTER	8	NATPNNAM	Node name from I record
52	(34)	SIGNED	4	(0)	Ensure fullword boundry
52	(34)	X'34'	0	NATNATPL	"*-NAT" Length of NATP control

Table 2. Cross Reference for \$NAT

Name	Offset	Hex Tag
NAT	0	
NATALINE	38	
NATALNUM	3C	
NATANATP	30	
NATAUX	4C	
NATAUXCP	44	38
NATAUXCS	38	
NATCACT	45	80
NATCHLD	45	20
NATCSTAT	45	
NATCUNC	45	40
NATECOM	14	
NATEVNT	C	
NATFPTL	16	18
NATID	0	
NATMEMBP	44	
NATNATL	50	54
NATNATP	40	
NATNATPL	34	34
NATNEXT	18	
NATNMPTR	34	
NATNPLEN	16	
NATNPMF	14	
NATNRANK	46	
NATNRHLD	46	10



Table 2. Cross Reference for \$NAT (continued)

Name	Offset	Hex Tag
NATNRINA	46	14
NATNRMAS	46	8
NATNRNMS	46	4
NATNRNUL	46	0
NATNRSTA	46	C
NATNSTAT	15	
NATNTIME	48	
NATNTNAT	8	80
NATNTNPT	8	20
NATNTNTP	8	10
NATNTNTQ	8	40
NATNTQ	14	
NATNTQCN	28	
NATNTQF1	30	
NATNTQF2	31	
NATNTQL	32	34
NATNTQNA	18	
NATNTQNB	20	
NATNTQ1A	30	80
NATNTQ1P	30	10
NATNTQ1R	30	20
NATNTQ1T	30	40
NATNTQ2C	31	1
NATNTQ2P	31	80
NATNTYPE	8	
NATPAFTK	24	
NATPCHAN	20	
NATPDCT	20	
NATPDNXT	18	
NATPFLG1	28	
NATPMEMB	27	
NATPNAT	1C	
NATPNEXT	14	
NATPNIT	28	
NATPNNAM	2C	
NATPREV	1C	
NATPRI	0	
NATPRIN	0	0
NATPRIQ	2	0



Table 2. Cross Reference for \$NAT (continued)

Name	Offset	Hex Tag
NATP1CMP	28	40
NATP1PRS	28	20
NATP1WAT	28	80
NATREST	A	0
NATRTKN	50	
NATSCHAN	24	
NATSEC	4	
NATSECN	4	0
NATSECQ	6	0
NATSINUS	14	40
NATSNIT	2C	
NATSPEND	14	10
NATSTATE	14	
NATSUMAX	14	80
NATSURCH	14	20
NATSXTRA	14	8
NATTADJ	9	2
NATTPM	9	40
NATTPMDE	9	10
NATTPMNO	9	20
NATTPRIV	9	8
NATTSTAT	9	80
NATTUNRE	9	4
NATTYPE	9	
NATVERN	0	1
NATVPRI	47	40
NATVFSEC	47	20
NATVFSTA	47	80
NATVFYQ	47	

## \$NCPE information

### \$NCPE heading information

**Common name:** NJE Server Subtask Table  
**Macro ID:** \$NCPE  
**DSECT name:** NCPE  
**Owning component:** JES2 (SC1BH)



**Eye-catcher ID:** 'NCPE'  
Offset: -8 (in the JES2 CSA storage prefix)  
Length: 4

**Storage attributes:** Subpool: 230  
Key: 1  
Residency: Common storage, Virtual storage below 2GB, real storage anywhere

**Size:** See NCPLen

**Created by:** HASCNJAS during NETSRV address space initialization

**Pointed to by:** NSCNCPE field of the \$NSCT data area  
PCLNCPE field of the \$PCL data area

**Serialization:**

**Function:** Used to cross-memory post the request manager subtask in an NJE server address space

## \$NCPE mapping

Table 3. Structure NCPE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NCPE	NCPE DSECT mapping
\$XMPPOST parameter list for server request subtask					
0	(0)	SIGNED	4	NCPEXMPE(0)	XMPPOST parameter list
0	(0)	ADDRESS	4	NCPERRET	WORD 1 = ERRET address (CCTBR14)
4	(4)	ADDRESS	4	NCPECBAD	WORD 2 = ECB address (NCPEECB)
8	(8)	ADDRESS	4	NCPEASCB	WORD 3 = ASCB address
12	(C)	SIGNED	4	NCPEECB	Request manager ECB
12	(C)	X'10'	0	NCPELEN	"*-NCPE" Length of NCPE

## \$NHD information

### \$NHD programming interface information

\$NHD is a programming interface.

### \$NHD heading information

**Common name:** Network Job Header, Dataset Header, and Job Trailer DSECTs.

**Macro ID:** \$NHD

**DSECT name:** NJH NJH2 NJHE NJHT NJHU NJHO NJHA NJHOX NJT NJTS NJTU NJTO NDH NDHA NDHS NDHC NDHT NDHU NDHO NDHOX

**Owning component:** JES2 (SCB1H)

**Eye-catcher ID:** None



<b>Storage attributes:</b>	Subpool: 10 Key: 1 Residency: JES2 spool resident control block. Virtual and real storage may be anywhere when resident in memory.
<b>Size:</b>	Variable, with a maximum size of NJHMAXLN for job headers, NDHMAXLN for dataset headers, or NJTMAXLN for job trailers. These control blocks will always reside in a 32K block of storage.
<b>Created by:</b>	Network job receiver for jobs received from network; Offload job receiver for reloaded jobs; Route receiver for network jobs rerouted locally; Network, offload, or route job/SYSOUT transmitters for locally submitted jobs (at transmission time). In-storage versions of the control block are created by \$NHDREAD or \$NHDRCV.
<b>Pointed to by:</b>	JCTNJHTR field of the \$JCT data area (spool pointer) JCTNJTTR field of the \$JCT data area (spool pointer) PDBNDHTR field of the \$JCT data area (spool pointer) Storage pointers in various PCE work areas and \$NHDxxx service parameter lists.
<b>Serialization:</b>	Serialized under the JES2 TCB
<b>Function:</b>	This DSECT represents the JES2 mappings of Job and Data set Headers/Tailers described in "Network Job Entry Formats and Protocols" (SC23-0070). These control blocks are part of the networking protocol used to communicate between nodes in a network.

## \$NHD mapping

Table 4. Structure NJH

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJH	NETWORK JOB HEADER RECORD
BLOCK CONTROL INFORMATION					
0	(0)	ADDRESS	2	NJHLEN	LENGTH OF ENTIRE BLOCK
2	(2)	BITSTRING	1	NJHFLAGS	FLAGS
3	(3)	BITSTRING	0	NJHSEQ	TRANSMISSION SEQUENCE INDICATOR
3	(3)	X'4'	0	NJHLBCI	"*-NJH" LENGTH OF BLOCK CONTROL INFORMATION
GENERAL SECTION					
4	(4)	SIGNED	4	NJHG(0)	START OF GENERAL SECTION
4	(4)	ADDRESS	2	NJHGLEN	LENGTH OF GENERAL SECTION
6	(6)	BITSTRING	2	NJHGFLGS(0)	SECTION TYPE FLAGS
6	(6)	ADDRESS	1	NJHGTYPE	ID FOR GENERAL SECTION
7	(7)	ADDRESS	1	NJHGMOD	MODIFIER
		.... .		NJHG\$MOD	"B'00000000'" VALUE OF MODIFIER
8	(8)	ADDRESS	2	NJHGJID	JOB IDENTIFIER



Table 4. Structure NJH (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
10	(A)	CHARACTER	1	NJHGJCLS	JOB CLASS
11	(B)	CHARACTER	1	NJHGMCLS	MESSAGE CLASS
12	(C)	BITSTRING	1	NJHGFLG1	FLAGS
		1... ....		NJHGF1PR	"B'10000000'" DO NOT RECOMPUTE PRIORITY
		.1.. ....		NJHGF1JN	"B'01000000'" Extended job number exists
		...1 ....		NJHGF1DU	"B'00010000'" Origin node path dubious
		.... 1...		NJHGF1CF	"B'00001000'" Store-and-forward msg flag
		.... .1..		NJHGF1CA	"B'00000100'" Destination node msg flag
		.... ..1.		NJHGF1PE	"B'00000010'" NJHGPASS is encrypted
		.... ...1		NJHGF1NE	"B'00000001'" NJHGNPAS is encrypted
13	(D)	ADDRESS	1	NJHGPRI0	SELECTION PRIORITY
14	(E)	ADDRESS	1	NJHGORGQ	ORIGIN NODE SYSTEM QUALIFIER
15	(F)	ADDRESS	1	NJHGJCPY	JOB COPY COUNT
16	(10)	ADDRESS	1	NJHGLNCT	JOB LINE COUNT
17	(11)	BITSTRING	1		RESERVED
18	(12)	SIGNED	2	NJHGHOPS	NJE HOP COUNT
20	(14)	CHARACTER	8	NJHGACCT	NETWORKING ACCOUNT NUMBER
28	(1C)	CHARACTER	8	NJHGNAM	JOB NAME
36	(24)	CHARACTER	8	NJHGUSID	USERID (TSO, VM) to NOTIFY
44	(2C)	CHARACTER	8	NJHGPASS	PASSWORD
52	(34)	CHARACTER	8	NJHGNPAS	NEW PASSWORD
60	(3C)	SIGNED	8	NJHGETS	ENTRY TIME/DATE STAMP
68	(44)	CHARACTER	8	NJHGORGN	ORIGIN NODE NAME
76	(4C)	CHARACTER	8	NJHGORGR	ORIGIN REMOTE NAME
84	(54)	CHARACTER	8	NJHGXEQN	EXECUTION NODE NAME
92	(5C)	CHARACTER	8	NJHGXERU	EXECUTION USER ID (VM/370)
100	(64)	CHARACTER	8	NJHGPRTN	DEFAULT PRINT NODE NAME
108	(6C)	CHARACTER	8	NJHGPRTR	DEFAULT PRINT REMOTE NAME
116	(74)	CHARACTER	8	NJHGPUNN	DEFAULT PUNCH NODE NAME
124	(7C)	CHARACTER	8	NJHGPUNR	DEFAULT PUNCH REMOTE NAME
132	(84)	CHARACTER	8	NJHGFORM	JOB FORMS
140	(8C)	SIGNED	4	NJHGICRD	INPUT CARD COUNT
144	(90)	SIGNED	4	NJHGETIM	ESTIMATED EXECUTION TIME
148	(94)	SIGNED	4	NJHRELIN	ESTIMATED OUTPUT LINES
152	(98)	SIGNED	4	NJHGEICRD	ESTIMATED OUTPUT CARDS
156	(9C)	CHARACTER	20	NJHGPRGN	PROGRAMMER'S NAME
176	(B0)	CHARACTER	8	NJHGRROOM	PROGRAMMER'S ROOM NUMBER
184	(B8)	CHARACTER	8	NJHGDEPT	PROGRAMMER'S DEPARTMENT
192	(C0)	CHARACTER	8	NJHGBLDG	PROGRAMMER'S BUILDING NUMBER
200	(C8)	SIGNED	4	NJHGNREC	RECORD COUNT ON OUTPUT XMISSION
204	(CC)	SIGNED	4	NJHGJNO	Extended job number
208	(D0)	CHARACTER	8	NJHGNTYN	Node to send NOTIFY message



Table 4. Structure NJH (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
216	(D8)	SIGNED	4	NJHGEND(0)	END OF GENERAL SECTION
216	(D8)	X'24'	0	NJHGORGU	"NJHGUSID" ORGIN USER ID
216	(D8)	X'D4'	0	NJHGLLEN	"*-NJHG" LENGTH OF GENERAL SECTION

Table 5. Structure NJH2

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJH2	START OF JES2 SECTION
0	(0)	ADDRESS	2	NJH2LEN	LENGTH OF JES2 SECTION
2	(2)	BITSTRING	2	NJH2FLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJH2TYPE	ID FOR JES2 SECTION
3	(3)	ADDRESS	1	NJH2MOD	MODIFIER
	.... ....			NJH2\$MOD	"B'00000000" VALUE OF MODIFIER

The following modifier is reserved and may not be used in conjunction with NTYPJES2 in the job header as it is used internally in JES2 SP4.3.0.

	.... ...1			NJH2\$RSV	"B'00000001" **RESERVED Modifier** Was NJHA\$J2M previously
4	(4)	BITSTRING	1	NJH2FLG1	FLAGS
5	(5)	BITSTRING	1	NJH2FLG2	Flag byte 2
6	(6)	BITSTRING	2		RESERVED
8	(8)	CHARACTER	4	NJH2ACCT	ORIGINATOR'S JES2 ACCOUNT NUMBER
12	(C)	CHARACTER	8	NJH2USID	JMR installation data field
20	(14)	CHARACTER	8	NJH2USR(0)	JCL USER ID (BEFORE SAF CALL) VERIFIED USER ID (AFTER)
28	(1C)	CHARACTER	8	NJH2GRP(0)	JCL GROUP ID (BEFORE SAF CALL) VERIFIED GROUP ID (AFTER)
36	(24)	CHARACTER	8	NJH2SUSR(0)	SUBMITTER'S USER ID
44	(2C)	CHARACTER	8	NJH2SGRP(0)	SUBMITTER'S GROUP ID
44	(2C)	X'34'	0	NJH2ACML	"*-NJH2" MINIMUM LENGTH FOR FIELDS REQUIRED FOR AUTH CHECKS IN JES2
52	(34)	CHARACTER	8	NJH2LNAM(0)	Associated JOBGROUP logging job name. If not set then no association.
60	(3C)	SIGNED	4	NJH2END(0)	END OF JES2 SECTION
60	(3C)	X'3C'	0	NJH2LLEN	"*-NJH2" LENGTH OF JES2 SECTION

## NJH2FLG1 BIT DEFINITIONS

	.... ..11			NJH2FJOB	"B'00000011" JOB IS A BATCH JOB WHEN ZERO
	.... ...1			NJH2FSTC	"B'00000001" JOB IS A STARTED TASK
	.... ..1.			NJH2FTSU	"B'00000010" JOB IS TIME-SHARING USER
	.... .1..			NJH2USE	"B'00000100" JCTUSEID PRESENT IN HEADER
	.... 1...			NJH2TPO	"B'00001000" Output originated from a transaction program
	..1. ....			NJH2DFJG	"B'00100000" JOB is a JOBGROUP logging job

## NJH2FLG2 BIT DEFINITIONS



Table 5. Structure NJH2 (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1... ..		NJH2ESMF	"B'10000000'" Suppress EVENTLOG SMF recs
		..1. ....		NJH2ERST	"B'00100000'" Suppress EVENTLOG RESTAT rc
		...1 ....		NJH2ETRC	"B'00010000'" Suppress EVENTLOG TRACE rec
		.... 1...		NJH2EUSR	"B'00001000'" Suppress EVENTLOG USER recs

Table 6. Structure NJHE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJHE	START OF JOB SCHED SECTION
0	(0)	ADDRESS	2	NJHELEN	LEN OF JOB SCHEDULING SECTION
2	(2)	BITSTRING	2	NJHEFLGS(0)	JOB SCHEDULING FLAGS
2	(2)	ADDRESS	1	NJHETYPE	ID FOR JOB SCHEDULING SECTION
3	(3)	ADDRESS	1	NJHEMOD	MODIFIER FOR JOB SCHEDULING
		.... ..		NJHE\$JS	"B'00000000'" VALUE OF MODIFIER
4	(4)	BITSTRING	4	NJHEPAGE	ESTIMATED BEGIN PAGE COUNT
8	(8)	BITSTRING	4	NJHEBYTE	ESTIMATED BYTE COUNT
12	(C)	CHARACTER	8	NJHECLS8	Eight Character Job class
20	(14)	CHARACTER	64	NJHEOCOR	Original job correlator
84	(54)	CHARACTER	8	NJHEXSYS	Name of system where job executed
92	(5C)	SIGNED	4	NJHEEND(0)	END OF JOB SCHEDULING SECTION
92	(5C)	X'5C'	0	NJHELLEN	"*-NJHE" LEN OF JOB SCHEDULING SECTION

Table 7. Structure NJHT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJHT	Start of Security Section
0	(0)	ADDRESS	2	NJHTLEN	Length of Security Section
2	(2)	BITSTRING	2	NJHTFLGS(0)	Section type flags
2	(2)	ADDRESS	1	NJHTTYPE	ID for Security Section
3	(3)	ADDRESS	1	NJHTMOD	Modifier
		.... ..		NJHT\$MOD	"B'00000000'" Value of Modifier
4	(4)	ADDRESS	2	NJHTLENP	Length of prefix sectn
6	(6)	BITSTRING	1	NJHTFLG0	Security section flags
		1... ..		NJHTF0JB	"B'10000000'" Token represents job
7	(7)	ADDRESS	1		Reserved
8	(8)	CHARACTER	80	NJHTTOKN	Mapped SAF token
88	(58)	SIGNED	4	NJHTEND(0)	End of Security Section
88	(58)	X'58'	0	NJHTLLEN	"*-NJHT" Length of Security Section

Table 8. Structure NJHA

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJHA	START of Accounting Section
0	(0)	SIGNED	2	NJHALEN	Length of Acctg Section



Table 8. Structure NJHA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2	(2)	BITSTRING	2	NJHAFLGS(0)	Section type flags
2	(2)	ADDRESS	1	NJHATYPE	ID for Accounting Section
3	(3)	ADDRESS	1	NJHAMOD	Modifier
		.... ....		NJH\$MOD	"B'00000000" Value of Modifier
4	(4)	BITSTRING	1	NJHAFLG1	Flags
		1... ....		NJHAF10V	"B'10000000" Accounting string can be overlaid by other than originating node
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	ADDRESS	2	NJHAOFFS	Offset to beginning of accounting information
6	(6)	X'8'	0	NJHAFLN	"*-NJHA" Length of fixed portion
Accounting strings from the JOB statement The string is in the form: AL1(number-of-substrings) AL1(length-1st-string),C'1st-string' AL1(length-2nd-string),C'2nd-string' etc. Note: The maximum length supported by JES2/JES3 is 143 bytes.					
8	(8)	SIGNED	2	NJHAJLEN	Length of job accounting string (does not include the length of this half word)
10	(A)	SIGNED	1	NJHAJNR	Number of sub-strings
11	(B)	SIGNED	1	NJHAJAC1(0)	First sub-string

Table 9. Structure NJHU

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJHU	START OF USER SECTION
0	(0)	ADDRESS	2	NJHULEN	LENGTH OF USER SECTION
2	(2)	BITSTRING	2	NJHUFLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJHUTYPE	ID FOR USER SECTION -- BITS 0-1 MUST BE B'11' BITS 2-7 CAN BE ANYTHING
3	(3)	ADDRESS	1	NJHUMOD	MODIFIER --
		.... ....		NJHU\$MOD	"B'00000000" MOD VALUE CAN BE ANYTHING
4	(4)	CHARACTER	4	NJHUCODE	SHARE/GUIDE INSTALLATION CODE PLACE USER INFORMATION FIELDS BETWEEN 'NJHUCODE' & 'NJHUEND'
8	(8)	SIGNED	4	NJHUEND(0)	END OF USER SECTION
8	(8)	X'8'	0	NJHULLEN	"*-NJHU" LENGTH OF USER SECTION

Table 10. Structure NJHOX

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJHOX	Start of JES2 SYSAFF sect.
0	(0)	ADDRESS	2	NJHOXLN	Length of JES2 SYSAFF sect.
2	(2)	BITSTRING	2	NJHOXFGS(0)	Section type flags
2	(2)	ADDRESS	1	NJHOXTYP	ID for JES2 section
3	(3)	ADDRESS	1	NJHOXMOD	MODIFIER for SYSAFF sect.
		11.. ....		NJHO\$AFF	"B'11000000" VALUE OF MODIFIER



Table 10. Structure NJHOX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	1	NJHOXFG1	FLAGS
		1... ....		NJHOX1IM	"B'10000000'" Job is independent mode
		.1... ....		NJHOX1NY	"B'01000000'" SYSAFF=ANYependent mode
5	(5)	BITSTRING	1		RESERVED
6	(6)	ADDRESS	2	NJHOXOFF	Offset to extended affinity
Extended system affinity... pointed to by NJHOXOFF. The bits in NJHOXSAF reflect affinity for the system numbers from left to right: 12345678....					
8	(8)	ADDRESS	2	NJHOXSAL	Length of extended sys aff
10	(A)	BITSTRING	1	NJHOXSAF	Extended system affinity
10	(A)	X'E'	0	NJHOXLLN	"*-NJHOX" Length of affinity sect.

Table 11. Structure NJHO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJHO	START OF JES2 OFFLOAD SECT
0	(0)	ADDRESS	2	NJHOLEN	LENGTH OF JES2 OFFLOAD SECTION
2	(2)	BITSTRING	2	NJHOFLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJHOTYPE	ID FOR JES2 SECTION
3	(3)	ADDRESS	1	NJHOMOD	MODIFIER
		1... ....		NJHO\$MOD	"B'10000000'" VALUE OF MODIFIER
4	(4)	BITSTRING	1	NJHOFLG1	FLAGS
5	(5)	BITSTRING	1	NJHOFLG2	MORE FLAGS
6	(6)	BITSTRING	1	NJHOPRIO	CURRENT EXECUTING PRIORITY
7	(7)	BITSTRING	1	NJHOCLAS	CURRENT EXECUTING CLASS
8	(8)	SIGNED	4	NJHOTIME	OFFLOAD VERIFICATION TIME
12	(C)	SIGNED	4	NJHODATE	OFFLOAD VERIFICATION DATE
16	(10)	CHARACTER	8	NJHOPRTU	PRINT SPECIAL LOCAL ROUTING
24	(18)	CHARACTER	8	NJHOPUNU	PUNCH SPECIAL LOCAL ROUTING
32	(20)	SIGNED	2	NJHOOJNO	OFFLOADED JOB NUMBER
The bits in NJHOSAF reflect affinity for the system numbers from right to left, with the topmost bit indicating independent mode: I7654321					
34	(22)	BITSTRING	1	NJHOSAF	System affinity; used by systems SP430 and below
35	(23)	BITSTRING	1		Reserved
36	(24)	CHARACTER	8	NJHOPRTN	Job print command authority node name, will be blanks for special local
44	(2C)	BITSTRING	2	NJHOPRRM	Job print command authority remote number
46	(2E)	CHARACTER	8	NJHOPUNN	Job punch command authority node name, will be blanks for special local
54	(36)	BITSTRING	2	NJHOPURM	Job punch command authority remote number
56	(38)	SIGNED	4	NJHOOJBN	Offloaded job number
60	(3C)	CHARACTER	8	NJHOSRVC	\$T'ed Service Class



Table 11. Structure NJHO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
68	(44)	CHARACTER	16	NJHOSCHE	\$T'ed SCHENV
84	(54)	SIGNED	4	NJHOCRTM	JQE creation time
88	(58)	CHARACTER	8	HJHOSLGS	For SYSLOG job, MVS system name that created log
96	(60)	CHARACTER	4	NJHORDSD	Input processor JES name
100	(64)	CHARACTER	4	NJHOCVSD	Conversion processor JES nm
104	(68)	CHARACTER	4	NJHOEXSD	Execution processor JES nm
108	(6C)	CHARACTER	4	HJH00TSD	Output processor JES name
112	(70)	CHARACTER	8	NJHOCLS8	Current executing job class 8 char version of NJHOCLAS
120	(78)	SIGNED	4	NJHOEND(0)	END OF JES2 OFFLOAD SECTION
120	(78)	X'78'	0	NJHOLLEN	"*-NJHO" LENGTH OF JES2 OFFLOAD SECTION
120	(78)	X'1E8'	0	NJHLLN	"NJHLBCI+NJHGLLEN+NJH2LLEN+NJHELLEN+NJHOLLEN" LENGTH OF DEFAULT JOB HEADER RECORD
ADD NJHULLEN TO THE ABOVE EQUATION TO INCLUDE USER SECTION NJHOFLG1 BIT DEFINITIONS					
	1... ....			NJHOF1HD	"B'10000000'" JOB HELD PRIOR TO TRANSMIT
	.1.. ....			NJHOF1HO	"B'01000000'" ALL JOBS HELD BY OPERATOR PRIOR TO TRANSMIT
	..1. ....			NJHOF1MC	"B'00100000'" JOB CLASS MODIFIED
	...1 ....			NJHOF1MS	"B'00010000'" JOB AFFINITY MODIFIED
	.... 1...			NJHOF1MH	"B'00001000'" JOB HOLD STATUS MODIFIED
	.... .1..			NJHOF1CV	"B'00000100'" JOB HOLD FOR CONVERSION BEFORE SPOOL OFFLOAD
NJHOFLG2 BIT DEFINITIONS					
	1... ....			NJHOF2PR	"B'10000000'" 'PROTECTED' attribute
	.1.. ....			NJHOF2SD	"B'01000000'" Service class \$T'ed
	..1. ....			NJHOF2ED	"B'00100000'" SCHENV \$T'ed
SECTION TYPE FLAGS					
	.... ....			NTYPGEN	"B'00000000'" GENERAL SECTION
	1... ....			NTYPSUB	"B'10000000'" SUBSYSTEM SECTION
	1... 1..1			NTYPGDS	"B'10001001'" DATA STREAM/ACCOUNTING SECTION
	1... 1.1.			NTYPGJS	"B'10001010'" JOB SCHEDULING SECTION
	1... 11..			NTYPSAF	"B'10001100'" Security Token Section
	1... 11.1			NTYPACCT	"B'10001101'" Job Accounting Section
	1... ...1			NTYPASP	"B'10000001'" ASP SUBSYSTEM SECTION
	1... ..1.			NTYPHASP	"B'10000010'" HASP SUBSYSTEM SECTION
	1... ..11			NTYPJES1	"B'10000011'" JES/RES SUBSYSTEM SECTION
	1... .1..			NTYPJES2	"B'10000100'" JES2 SUBSYSTEM SECTION
	1... .1.1			NTYPJES3	"B'10000101'" JES3 SUBSYSTEM SECTION
	1... .11.			NTYPPOWR	"B'10000110'" POWER/VS SUBSYSTEM SECTION



Table 11. Structure NJHO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... .111		NTYPVNET	"B'10000111'" VM/370 SUBSYSTEM SECTION
		11... ....		NTYPUER	"B'11000000'" USER SECTION
120	(78)	X'7B8B'	0	NJHMAXLN	"(253-4)*127+4" Maximum size of job header: 127 records allowed by sequencing field * maximum size of each record (253) less the size of the sequencing fields (4) + general header prefix.

Table 12. Structure NJT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJT	
BLOCK CONTROL INFORMATION					
0	(0)	ADDRESS	2	NJTLEN	LENGTH OF ENTIRE BLOCK
2	(2)	BITSTRING	1	NJTFLAGS	FLAGS
3	(3)	BITSTRING	0	NJTSEQ	TRANSMISSION SEQUENCE INDICATOR
3	(3)	X'4'	0	NJTLBCI	"*-NJT" LENGTH OF BLOCK CONTROL INFORMATION
GENERAL SECTION					
4	(4)	SIGNED	4	NJTG(0)	START OF GENERAL SECTION
4	(4)	ADDRESS	2	NJTGLN	LENGTH OF GENERAL SECTION
6	(6)	BITSTRING	2	NJTGFLGS(0)	SECTION TYPE FLAGS
6	(6)	ADDRESS	1	NJTGTYPE	ID FOR GENERAL SECTION
7	(7)	ADDRESS	1	NJTGMOD	MODIFIER
		.... ....		NJTG\$MOD	"B'00000000'" VALUE OF MODIFIER
8	(8)	BITSTRING	1	NJTGFLG1	FLAGS
9	(9)	CHARACTER	1	NJTGXCLS	ACTUAL EXECUTION CLASS
10	(A)	BITSTRING	2		RESERVED
12	(C)	SIGNED	8	NJTGSTRT	EXECUTION START TIME/DATE
20	(14)	SIGNED	8	NJTGSTOP	EXECUTION STOP TIME/DATE
28	(1C)	SIGNED	4	NJTGACPU	ACTUAL CPU TIME
32	(20)	SIGNED	8	NJTLIPUS(0)	Actual lines AND cards
32	(20)	SIGNED	4	NJTGALIN	ACTUAL OUTPUT LINES
36	(24)	SIGNED	4	NJTGACRD	ACTUAL OUTPUT CARDS
40	(28)	SIGNED	4	NJTGEXCP	EXCP COUNT
44	(2C)	ADDRESS	4	NJTAIPRI(0)	All initial priorities
44	(2C)	ADDRESS	1	NJTGIXPR	Initial XEQ selection
45	(2D)	ADDRESS	1	NJTGAXPR	Actual XEQ selection
46	(2E)	ADDRESS	1	NJTGIOPR	Initial output selection
47	(2F)	ADDRESS	1	NJTGAOPR	Actual output selection
48	(30)	BITSTRING	4	NJTGCC(0)	Job completion codes
48	(30)	BITSTRING	1	NJTGCOMP	Job completion indicator
		1... ....		NJTGCAB	"X'80'" ABEND CODE
		.1... ....		NJTGCCC	"X'40'" Completion code
48	(30)	X'0'	0	NJTGCUNK	"0" No completion info



Table 12. Structure NJT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	X'1'	0	NJTGCNRM	"1" Job ended normally
48	(30)	X'2'	0	NJTGCECC	"2" Job ended by cc
48	(30)	X'3'	0	NJTGCJCL	"3" Job had a JCL error
48	(30)	X'4'	0	NJTGCCAN	"4" Job was canceled
48	(30)	X'5'	0	NJTGCABN	"5" Job ABENDed
48	(30)	X'6'	0	NJTGCCAB	"6" Converter ABENDed
48	(30)	X'7'	0	NJTGCSEC	"7" Security error
48	(30)	X'8'	0	NJTGCCEOM	"8" Job ABENDed in end of memory processing
48	(30)	X'9'	0	NJTGCCNV	"9" Converter error
48	(30)	X'A'	0	NJTGCSYS	"10" System failure
48	(30)	X'B'	0	NJTGCFLU	"11" Job has been flushed
49	(31)	BITSTRING	3	NJTGCODE	Completion code (if applicable), or ABEND codes (system code in first 12 bits, user code in last 12 bits).
52	(34)	SIGNED	4	NJTGEN(0)	END OF GENERAL SECTION
52	(34)	X'30'	0	NJTGLLEN	"*-NJTG" LENGTH OF GENERAL SECTION

Table 13. Structure NJTS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJTS	START OF ACCOUNTING SECTION
0	(0)	ADDRESS	2	NJTSLLEN	LENGTH OF ACCOUNTING SECTION
2	(2)	BITSTRING	2	NJTSLFLGS(0)	ACCOUNTING SECTION FLAGS
2	(2)	ADDRESS	1	NJTSTYPE	ID FOR GENERAL SECTION
3	(3)	ADDRESS	1	NJTSMOD	MODIFIER
		....		NJT\$ACCT	"B'00000000" VALUE OF MODIFIER
4	(4)	BITSTRING	4	NJT\$APAG	NUMBER OF 'BEGIN PAGE' FIELDS
8	(8)	BITSTRING	4	NJT\$ABYT	NUMBER OF DATA BYTES
12	(C)	SIGNED	4	NJTSEND(0)	END OF ACCOUNTING SECTION
12	(C)	X'C'	0	NJTSLLEN	"*-NJTS" LENGTH OF ACCOUNTING SECTION

Table 14. Structure NJTU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJTU	START OF USER SECTION
0	(0)	ADDRESS	2	NJTULEN	LENGTH OF USER SECTION
2	(2)	BITSTRING	2	NJTUFLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJTUTYPE	ID FOR USER SECTION -- BITS 0-1 MUST BE B'11' BITS 2-7 CAN BE ANYTHING
3	(3)	ADDRESS	1	NJTUMOD	MODIFIER --
		....		NJTU\$MOD	"B'00000000" MOD VALUE CAN BE ANYTHING
4	(4)	CHARACTER	4	NJTUCODE	SHARE/GUIDE INSTALLATION CODE PLACE USER INFORMATION FIELDS BETWEEN 'NJTUCODE' & 'NJTUEND'
8	(8)	SIGNED	4	NJTUEND(0)	END OF USER SECTION
8	(8)	X'8'	0	NJTULLEN	"*-NJTU" LENGTH OF USER SECTION



Table 15. Structure NJTO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJTO	START OF JES2 OFFLOAD SECT
0	(0)	ADDRESS	2	NJTOLN	LENGTH OF JES2 OFFLOAD SECTION
2	(2)	BITSTRING	2	NJTOLG(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJTOTYPE	ID FOR JES2 SECTION
3	(3)	ADDRESS	1	NJTOMOD	MODIFIER
		1... ..		NJTO\$MOD	"B'10000000'" VALUE OF MODIFIER
4	(4)	SIGNED	4	NJTOTIME	OFFLOAD VERIFICATION TIME
8	(8)	SIGNED	4	NJTODATE	OFFLOAD VERIFICATION DATE
12	(C)	SIGNED	4	NJTOEND(0)	END OF JES2 OFFLOAD SECTION
12	(C)	X'C'	0	NJTOLN	"*-NJTO" LENGTH OF JES2 OFFLOAD SECTION
12	(C)	X'4C'	0	NJTLLEN	"NJTLBCI+NJTGLLEN+NJTSLEN+NJTOLN" LENGTH OF DEFAULT JOB TRAILER RECORD
ADD NJTULLEN TO THE ABOVE EQUATION TO INCLUDE USER SECTION					
12	(C)	X'7B8B'	0	NJTMAXLN	"(253-4)*127+4" Maximum size of job trailer: 127 records allowed by sequencing field * maximum size of each record (253) less the size of the sequencing fields (4) + general header prefix.

Table 16. Structure NDH

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NDH	NETWORK DATA SET HEADER RECORD
BLOCK CONTROL INFORMATION					
0	(0)	ADDRESS	2	NDHLEN	LENGTH OF ENTIRE BLOCK
2	(2)	BITSTRING	1	NDHFLAGS	FLAGS
3	(3)	BITSTRING	0	NDHSEQ	TRANSMISSION SEQUENCE INDICATOR
3	(3)	X'4'	0	NDHLBCI	"*-NDH" LENGTH OF BLOCK CONTROL INFORMATION
GENERAL SECTION					
4	(4)	SIGNED	4	NDHG(0)	START OF GENERAL SECTION
4	(4)	ADDRESS	2	NDHGLEN	LENGTH OF GENERAL SECTION
6	(6)	BITSTRING	2	NDHGFLGS(0)	SECTION TYPE FLAGS
6	(6)	ADDRESS	1	NDHGTYPE	ID FOR GENERAL SECTION
7	(7)	ADDRESS	1	NDHGMOD	MODIFIER
		.... ..		NDHG\$MOD	"B'00000000'" VALUE OF MODIFIER
8	(8)	CHARACTER	8	NDHGNO	DESTINATION NODE NAME
16	(10)	CHARACTER	8	NDHGRMT	DESTINATION REMOTE NAME
24	(18)	CHARACTER	8	NDHGPROC	PROC INVOCATION NAME
32	(20)	CHARACTER	8	NDHGSTEP	STEP NAME
40	(28)	CHARACTER	8	NDHGDD	DD NAME
48	(30)	SIGNED	2	NDHGDSNO	DATA SET NUMBER
50	(32)	ADDRESS	1	NDHGSEC	SECURITY LEVEL
51	(33)	CHARACTER	1	NDHGCLAS	OUTPUT CLASS



Table 16. Structure NDH (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
52	(34)	SIGNED	4	NDHGNREC	RECORD COUNT
56	(38)	BITSTRING	1	NDHGFLG1	FLAGS
57	(39)	BITSTRING	1	NDHGRCFM	RECFM
58	(3A)	SIGNED	2	NDHGLREC	MAX LOGICAL RECORD LENGTH
60	(3C)	ADDRESS	1	NDHGDSCCT	DATA SET COPY COUNT
61	(3D)	ADDRESS	1	NDHGFCBI	3211 FCB INDEX
62	(3E)	BITSTRING	1	NDHGLNCT	DATA SET LINCT (PAGE SIZE)
63	(3F)	BITSTRING	1		RESERVED FOR FUTURE USE
64	(40)	CHARACTER	8	NDHGFORM	FORMS ID
72	(48)	CHARACTER	8	NDHGFCB	FCB ID
80	(50)	CHARACTER	8	NDHGUCS	UCS ID
88	(58)	CHARACTER	8	NDHGXWTR	EXTERNAL WRITER ID
96	(60)	CHARACTER	8	NDHGNAME	Sysout DS name (DSNAME=)
104	(68)	BITSTRING	1	NDHGFLG2	SECOND FLAG BYTE
105	(69)	BITSTRING	1	NDHGUCS0	UCS OPTION BYTE
106	(6A)	BITSTRING	2		RESERVED FOR FUTURE USE
108	(6C)	CHARACTER	8	NDHGPMD	PROCESS MODE
116	(74)	SIGNED	4	NDHGSEGN	Segment ID
120	(78)	SIGNED	4	NDHGEND(0)	END OF GENERAL SECTION
120	(78)	X'74'	0	NDHGLLEN	"*-NDHG" LENGTH OF GENERAL SECTION
120	(78)	X'78'	0	NDHLLN	"*-NDH" LENGTH OF ENTIRE BLOCK

Table 17. Structure NDHA

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHA	START OF 3800 CHAR SECTION
0	(0)	ADDRESS	2	NDHALEN	LENGTH OF 3800 CHAR SECTION
2	(2)	BITSTRING	2	NDHAFLGS(0)	FLAGS AND MODIFIER
2	(2)	ADDRESS	1	NDHATYPE	ID FOR GENERAL SECTION
3	(3)	ADDRESS	1	NDHAMOD	MODIFIER
	1... ....			NDHA\$MOD	"B'10000000'" VALUE OF MODIFIER (3800 CHAR)
4	(4)	BITSTRING	1	NDHAFLG1	FLAGS
5	(5)	ADDRESS	1	NDHAFLCT	FLASH COUNT
6	(6)	BITSTRING	1	NDHATREF	TABLE REFERENCE CHARACTER
7	(7)	BITSTRING	1		RESERVED
8	(8)	CHARACTER	8	NDHATAB1	TRANSLATE TABLE 1
16	(10)	CHARACTER	8	NDHATAB2	TRANSLATE TABLE 2
24	(18)	CHARACTER	8	NDHATAB3	TRANSLATE TABLE 3
32	(20)	CHARACTER	8	NDHATAB4	TRANSLATE TABLE 4
40	(28)	CHARACTER	8	NDHAFLSH	FLASH CARTRIDGE ID
48	(30)	CHARACTER	8	NDHAMODF	COPY MODIFICATION ID
56	(38)	BITSTRING	8	NDHACPYG	COPY GROUPS
64	(40)	SIGNED	4	NDHAEND(0)	END OF 3800 CHAR SECTION
64	(40)	X'40'	0	NDHALLEN	"*-NDHA" LENGTH OF 3800 CHAR SECTION



Table 18. Structure NDHS

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHS	START OF DATASTREAM SECT
0	(0)	ADDRESS	2	NDHSLEN	LEN OF DATA STREAM SECTION
2	(2)	BITSTRING	2	NDHSFLGS(0)	FLAGS AND MODIFIERS
2	(2)	ADDRESS	1	NDHSTYPE	ID FOR GENERAL SECTION
3	(3)	ADDRESS	1	NDHSMOD	MODIFIER
		.... ....		NDHS\$OUT	"B'00000000'" VALUE OF MODIFIER (OUTPUT)
4	(4)	ADDRESS	2	NDHSFLEN	SUBSECTION FIXED LENGTH
6	(6)	BITSTRING	1	NDHSFLG1	DATA STREAM FLAG
		1... ....		NDHS1CPD	"B'10000000'" DATA SET HAS CPDS CHARA.
7	(7)	BITSTRING	1		RESERVED
8	(8)	BITSTRING	8	NDHSJDVT	JDVT NAME
16	(10)	BITSTRING	4	NDHSNSTR	PAGE DATA PAGE COUNT
20	(14)	BITSTRING	8	NDHSGPID	OUTPUT NAME FOR DATA SET
20	(14)	X'1C'	0	NDHSLEN2	"*-NDHS" LENGTH OF DATA STREAM SECTION
28	(1C)	SIGNED	2	NDHSSDAT(0)	START OF VARIABLE DATA FOR SWBS

Table 19. Structure NDHC

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHC	START OF CHAR CHANGE SECT
0	(0)	ADDRESS	2	NDHCLEN	LENGTH OF CHAR CHANGE GENERAL SECT
2	(2)	BITSTRING	2	NDHCFLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NDHCTYPE	ID FOR GENERAL SECTION
3	(3)	ADDRESS	1	NDHCMOD	MODIFIER
		.1... ....		NDHC\$MOD	"B'01000000'" VALUE OF MODIFIER (CHAR CHANGE)
4	(4)	BITSTRING	1	NDHCFLG1	FLAGS
5	(5)	BITSTRING	1	NDHCRCFM	RECFM
6	(6)	ADDRESS	2	NDHCLREC	MAXIMUM LRECL
8	(8)	SIGNED	4	NDHCEND(0)	END OF CHAR CHANGE GENERAL SECTION
8	(8)	X'8'	0	NDHCLEN	"*-NDHC" LENGTH OF CHAR CHANGE GENERAL SECT

Table 20. Structure NDHT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHT	Start of Security Section
0	(0)	ADDRESS	2	NDHTLEN	Length of Security Section
2	(2)	BITSTRING	2	NDHTFLGS(0)	Section type flags
2	(2)	ADDRESS	1	NDHTTYPE	ID for Security Section
3	(3)	ADDRESS	1	NDHTMOD	Modifier
		.... ....		NDHT\$MOD	"B'00000000'" Value of Modifier
4	(4)	ADDRESS	2	NDHTLENP	Length of prefix sectn
6	(6)	ADDRESS	2		Reserved
8	(8)	CHARACTER	80	NDHTTKN	Mapped SAF token



Table 20. Structure NDHT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
88	(58)	SIGNED	4	NDHTEND(0)	End of Security Section
88	(58)	X'58'	0	NDHTLLEN	"*-NDHT" Length of Security Section

Table 21. Structure NDHU

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHU	START OF USER SECTION
0	(0)	ADDRESS	2	NDHULEN	LENGTH OF USER SECTION
2	(2)	BITSTRING	2	NDHUFLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NDHUTYPE	ID FOR USER SECTION -- BITS 0-1 MUST BE B'11' BITS 2-7 CAN BE ANYTHING
3	(3)	ADDRESS	1	NDHUMOD	MODIFIER --
	....			NDHU\$MOD	"B'00000000'" MOD VALUE CAN BE ANYTHING
4	(4)	CHARACTER	4	NDHUCODE	SHARE/GUIDE INSTALLATION CODE PLACE USER INFORMATION FIELDS BETWEEN 'NDHUCODE' & 'NDHUEND'
8	(8)	SIGNED	4	NDHUEND(0)	END OF USER SECTION
8	(8)	X'8'	0	NDHULLEN	"*-NDHU" LENGTH OF USER SECTION

Table 22. Structure NDHO

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHO	START OF SPOOL OFFLOAD SECT
0	(0)	ADDRESS	2	NDHOLEN	LENGTH OF SPOF SECTION
2	(2)	BITSTRING	2	NDHOFLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NDHOTYPE	ID FOR JES2 SECTION
3	(3)	ADDRESS	1	NDHOMOD	MODIFIER
	1...			NDHO\$MOD	"B'10000000'" VALUE OF MODIFIER
4	(4)	CHARACTER	8	NDHOUSER	OWNING USERID
12	(C)	SIGNED	4	NDHOTIME	JOE CREATION TIME
16	(10)	SIGNED	4	NDHODSNO	FULLWORD DATA SET NUMBER
20	(14)	SIGNED	2	NDHOPRIO	PRIORITY OF DATA SET
22	(16)	BITSTRING	1	NDHOFLG1	Flags
	1...			NDHOF1SF	"B'10000000'" DS had store-and-forward token at time of offload
	.1...			NDHOF1NF	"B'01000000'" DS had local token at time of offload
23	(17)	BITSTRING	1		RESERVED FOR FUTURE USE
24	(18)	SIGNED	4	NDHOEND(0)	END OF JES2 SPOF SECTION
24	(18)	X'18'	0	NDHOLLEN	"*-NDHO" LENGTH OF SPOF SECTION

Table 23. Structure NDHOX

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHOX	Start of TP offload section
0	(0)	ADDRESS	2	NDHOXLEN	Length of TP section
2	(2)	BITSTRING	2	NDHOXFGX(0)	Section type flags
2	(2)	ADDRESS	1	NDHOXTYP	Id for JES2 section



Table 23. Structure NDHOX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3	(3)	ADDRESS	1	NDHOXMOD	Modifier
		11.. ....		NDHOXMTP	"B'11000000" Value of modifier
4	(4)	BITSTRING	1	NDHOXFG1	DSCT flag byte 1
		1... ....		NDHOX1UN	"B'10000000" Userid is undefined
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	CHARACTER	8	NDHOXJBN	Job name
16	(10)	CHARACTER	8	NDHOXWKD	Work unit identifier
24	(18)	BITSTRING	8	NDHOXEST	Entry start clock time
32	(20)	BITSTRING	8	NDHOXXST	Execution start clock time
40	(28)	SIGNED	4	NDHOXETS	Entry time in 1/100's sec
44	(2C)	SIGNED	4	NDHOXEDT	Entry date 00yydddf
48	(30)	CHARACTER	8	NDHOXUID	User identification field
56	(38)	CHARACTER	8	NDHOXTUD	Transaction Program Userid
64	(40)	CHARACTER	4	NDHOXACT	Account number
68	(44)	SIGNED	4	NDHOXEND(0)	END OF JES2 TP SPOF SECTION
68	(44)	X'44'	0	NDHOXLLN	"*-NDHOX" LENGTH OF TP SPOF SECTION
GENERAL SECTION, NDHGFLG1					
		1... ....		NDHGF1SP	"B'10000000" SPIN DATA SET
		.1.. ....		NDHGF1HD	"B'01000000" HOLD DATA SET AT DESTINATION
		..1. ....		NDHGF1LG	"B'00100000" JOB LOG INDICATOR
		...1 ....		NDHGF1OV	"B'00010000" PAGE OVERFLOW INDICATOR
		.... 1...		NDHGF1IN	"B'00001000" PUNCH INTERPRET INDICATOR
		.... .1..		NDHGF1LC	"B'00000100" NDHLINCT SET INDICATOR
		.... ..1.		NDHGF1ST	"B'00000010" JOB STATISTICS IN JOB LOG
GENERAL SECTION,NDHGFLG2					
		1... ....		NDHGF2PR	"B'10000000" DATASET IS BEING PRINTED
		.1.. ....		NDHGF2PU	"B'01000000" DATASET IS BEING PUNCHED
		..1. ....		NDHGF2RM	"B'00100000" FIELD NDHGRMT CONTAINS TRUE REMOTE (NOT USERID)
		...1 ....		NDHGF2HB	"B'00010000" HOLD DATASET BEFORE PRINT OR PUNCH OPERATION
		.... 1...		NDHGF2HA	"B'00001000" HOLD DATASET AFTER PRINT OR PUNCH OPERATION
		.... .1..		NDHGF2HX	"B'00000100" Data set should be held at JES3 nodes for external writer. JES3 only.
		.... ..1.		NDHGF2TR	"B'00000010" Truncate trailing blanks. JES3 only.
		.... ...1		NDHGF2NO	"B'00000001" Non-printable SYSOUT data set. Contains internal control information.



Table 23. Structure NDHOX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
-----+-----+-----+-----+-----+-----					
OUTDISP	NDHGFLG1 NDHGF1HD	NDHGFLG2 NDHGF2HB	NDHGFLG2 NDHGF2HA	NOTE #1 - These bit combinations only	
WRITE	0	0	0	occur when SYSOUT created by a	
KEEP	#1 0	0	1	version 4 system	
WRITE	#1 0	1	0	down level (pre SP410) system.	
KEEP	#1 0	1	1		
HOLD	#2 1	0	0		
KEEP	1	0	1	This combination will be considered as	
HOLD	1	1	0	OUTDISP = HOLD when received from a down	
LEAVE	1	1	1	level node.	
-----+-----+-----+-----+-----+-----					
GENERAL SECTION,NDHGUCSO					
	1... ....			NDHGUCSO	"B'10000000'" BLOCK DATA CHECK OPTION
	.1.. ....			NDHGUCSF	"B'01000000'" FOLD OPTION
3800 CHARACTERISTICS GENERAL SECTION, NDHAFLG1					
	1... ....			NDHAF1J	"B'10000000'" 'OPTCD=J' SPECIFIED
	.1.. ....			NDHAF1BR	"B'01000000'" 'BURST=YES' SPECIFIED
	..1. ....			NDHAF1BN	"B'00100000'" 'BURST=NO' SPECIFIED
	.11. ....			NDHAF1BD	"B'01100000'" TEST 'BURST DEFAULT' BYTE REAL DEFAULT IS '.00.....'
68	(44) X'7B8B'		0	NDHMAXLN	"(253-4)*127+4" Maximum size of dataset header: 127 records allowed by sequencing field * maximum size of each record (253) less the size of the sequencing fields (4) + general header prefix.

Table 24. Cross Reference for \$NHD

Name	Offset	Hex Tag
HJH00TSD	6C	40404040
HJH0SLGS	58	40404040
NDH	0	
NDHA	0	
NDHA\$MOD	3	80
NDHACPYG	38	0
NDHAEND	40	
NDHAFLCT	5	
NDHAFLGS	2	
NDHAFLG1	4	0
NDHAFLSH	28	40404040
NDHAF1BD	44	60
NDHAF1BN	44	20
NDHAF1BR	44	40
NDHAF1J	44	80



Table 24. Cross Reference for \$NHD (continued)

Name	Offset	Hex Tag
NDHALEN	0	40
NDHALLEN	40	40
NDHAMOD	3	
NDHAMODF	30	40404040
NDHATAB1	8	40404040
NDHATAB2	10	40404040
NDHATAB3	18	40404040
NDHATAB4	20	40404040
NDHATREF	6	0
NDHATYPE	2	
NDHC	0	
NDHC\$MOD	3	40
NDHCEND	8	
NDHCFLGS	2	
NDHCFLG1	4	0
NDHCLEN	0	
NDHCLEN	8	8
NDHCLREC	6	
NDHCMOD	3	
NDHCRCFM	5	0
NDHCTYPE	2	
NDHFLAGS	2	0
NDHG	4	
NDHG\$MOD	7	0
NDHGCLAS	33	C1
NDHGDD	28	40404040
NDHGDST	3C	
NDHGDSNO	30	0
NDHGEND	78	
NDHGFCB	48	40404040
NDHGFCBI	3D	
NDHGFLGS	6	
NDHGFLG1	38	0
NDHGFLG2	68	0
NDHGFORM	40	40404040
NDHGF1HD	44	40
NDHGF1IN	44	8
NDHGF1LC	44	4
NDHGF1LG	44	20



Table 24. Cross Reference for \$NHD (continued)

Name	Offset	Hex Tag
NDHGF10V	44	10
NDHGF1SP	44	80
NDHGF1ST	44	2
NDHGF2HA	44	8
NDHGF2HB	44	10
NDHGF2HX	44	4
NDHGF2NO	44	1
NDHGF2PR	44	80
NDHGF2PU	44	40
NDHGF2RM	44	20
NDHGF2TR	44	2
NDHGLEN	4	
NDHGLLEN	78	74
NDHGLNCT	3E	
NDHGLREC	3A	0
NDHGMOD	7	
NDHGNAME	60	40404040
NDHGNODE	8	40404040
NDHGNREC	34	0
NDHGPMDE	6C	40404040
NDHGPROC	18	40404040
NDHGRCFM	39	0
NDHGRMT	10	40404040
NDHGSEC	32	
NDHGSEGN	74	0
NDHGSTEP	20	40404040
NDHGTYPE	6	
NDHGUCS	50	40404040
NDHGUCSD	44	80
NDHGUCSF	44	40
NDHGUCSO	69	0
NDHGXWTR	58	40404040
NDHLBCI	3	4
NDHLEN	0	
NDHLLEN	78	78
NDHMAXLN	44	7B8B
NDHO	0	
NDHO\$MOD	3	80
NDHO\$MTP	3	C0



Table 24. Cross Reference for \$NHD (continued)

Name	Offset	Hex Tag
NDHODSNO	10	0
NDHOEND	18	
NDHOFLGS	2	
NDHOFLG1	16	
NDHOF1NF	16	40
NDHOF1SF	16	80
NDHOLEN	0	
NDHOLLEN	18	18
NDHOMOD	3	
NDHOPRIO	14	0
NDHOTIME	C	0
NDHOTYPE	2	
NDHOUSER	4	40404040
NDHOX	0	
NDHOXACT	40	
NDHOXEDT	2C	
NDHOXEND	44	
NDHOXEST	18	
NDHOXETS	28	
NDHOXFGX	2	
NDHOXFG1	4	
NDHOXJBN	8	
NDHOXLEN	0	
NDHOXLLN	44	44
NDHOXMOD	3	
NDHOXTUD	38	
NDHOXTYP	2	
NDHOXUID	30	
NDHOXWKD	10	
NDHOXXST	20	
NDHOX1UN	4	80
NDHS	0	
NDHS\$OUT	3	0
NDHSEQ	3	0
NDHSFLEN	4	1C
NDHSFLGS	2	
NDHSFLG1	6	0
NDHSGPID	14	0
NDHSJDVT	8	0



Table 24. Cross Reference for \$NHD (continued)

Name	Offset	Hex Tag
NDHSLEN	0	
NDHSLEN2	14	1C
NDHSMOD	3	
NDHSNSTR	10	0
NDHSSDAT	1C	
NDHSTYPE	2	
NDHS1CPD	6	80
NDHT	0	
NDHT\$MOD	3	0
NDHTEND	58	
NDHTFLGS	2	
NDHTLEN	0	
NDHTLENP	4	
NDHTLLEN	58	58
NDHTMOD	3	
NDHTTOKN	8	40404040
NDHTTYPE	2	
NDHU	0	
NDHU\$MOD	3	0
NDHUCODE	4	40404040
NDHUEND	8	
NDHUFLGS	2	
NDHULEN	0	
NDHULLEN	8	8
NDHUMOD	3	
NDHUTYPE	2	
NJH	0	
NJHA	0	
NJHA\$MOD	3	0
NJHAFLLEN	6	8
NJHAFLGS	2	
NJHAFLG1	4	
NJHAF10V	4	80
NJHAJAC1	B	
NJHAJLEN	8	
NJHAJNR	A	
NJHALEN	0	
NJHAMOD	3	
NJHAOFFS	6	



Table 24. Cross Reference for \$NHD (continued)

Name	Offset	Hex Tag
NJHATYPE	2	
NJHE	0	
NJHE\$JS	3	0
NJHEBYTE	8	0
NJHECLS8	C	40404040
NJHEEND	5C	
NJHEFLGS	2	
NJHELEN	0	
NJHELLEN	5C	5C
NJHEMOD	3	
NJHEOCOR	14	40404040
NJHEPAGE	4	0
NJHETYPE	2	
NJHEXSYS	54	
NJHFLAGS	2	0
NJHG	4	
NJHG\$MOD	7	0
NJHGACCT	14	40404040
NJHGBLDG	C0	40404040
NJHGDEPT	B8	40404040
NJHGECRD	98	0
NJHGELIN	94	0
NJHGEND	D8	
NJHGETIM	90	0
NJHGETS	3C	0
NJHGFLGS	6	
NJHGFLG1	C	0
NJHGFORM	84	40404040
NJHGF1CA	C	4
NJHGF1CF	C	8
NJHGF1DU	C	10
NJHGF1JN	C	40
NJHGF1NE	C	1
NJHGF1PE	C	2
NJHGF1PR	C	80
NJHGHOPS	12	0
NJHGICRD	8C	0
NJHGJCLS	A	C1
NJHGJCPY	F	



Table 24. Cross Reference for \$NHD (continued)

Name	Offset	Hex Tag
NJHGJID	8	0
NJHGJNAM	1C	40404040
NJHGJNO	CC	0
NJHGLEN	4	
NJHGLLEN	D8	D4
NJHGLNCT	10	
NJHGMCLS	B	C1
NJHGMOD	7	
NJHGNPAS	34	
NJHGNREC	C8	0
NJHGNTYN	D0	40404040
NJHGORG	44	40404040
NJHGORGQ	E	
NJHGORGR	4C	40404040
NJHGORGU	D8	24
NJHGPASS	2C	
NJHGPRGN	9C	40404040
NJHGPRI	D	
NJHGPRTN	64	40404040
NJHGPRT	6C	40404040
NJHGPUNN	74	40404040
NJHGPUNR	7C	40404040
NJHGR	B0	40404040
NJHGTYPE	6	
NJHGUSID	24	40404040
NJHGXEQN	54	40404040
NJHGXEQU	5C	40404040
NJHLBCI	3	4
NJHLEN	0	
NJHLL	78	1E8
NJHMAXLN	78	7B8B
NJHO	0	
NJHO\$AFF	3	C0
NJHO\$MOD	3	80
NJHOCLAS	7	0
NJHOCLS8	70	40404040
NJHOCRTM	54	0
NJHOCVSD	64	40404040
NJHODATE	C	0



Table 24. Cross Reference for \$NHD (continued)

Name	Offset	Hex Tag
NJHOEND	78	
NJHOEXSD	68	40404040
NJHOFLGS	2	
NJHOFLG1	4	0
NJHOFLG2	5	0
NJHOF1CV	78	4
NJHOF1HD	78	80
NJHOF1H0	78	40
NJHOF1MC	78	20
NJHOF1MH	78	8
NJHOF1MS	78	10
NJHOF2ED	78	20
NJHOF2PR	78	80
NJHOF2SD	78	40
NJHOLEN	0	
NJHOLLEN	78	78
NJHOMOD	3	
NJH00JBN	38	
NJH00JNO	20	0
NJHOPRIO	6	0
NJHOPRRM	2C	0
NJHOPRTN	24	40404040
NJHOPRTU	10	40404040
NJHOPUNN	2E	40404040
NJHOPUNU	18	40404040
NJHOPURM	36	0
NJHORDSD	60	40404040
NJHOSAF	22	0
NJHOSCHE	44	
NJHOSRVC	3C	
NJHOTIME	8	0
NJHOTYPE	2	
NJHOX	0	
NJHOXFGS	2	
NJHOXFG1	4	0
NJHOXLLN	A	E
NJHOXLN	0	
NJHOXMOD	3	
NJHOXOFF	6	



Table 24. Cross Reference for \$NHD (continued)

Name	Offset	Hex Tag
NJHOXSAF	A	0
NJHOXSAL	8	
NJHOXTYP	2	
NJHOX1IM	4	80
NJHOX1NY	4	40
NJHSEQ	3	0
NJHT	0	
NJHT\$MOD	3	0
NJHTEND	58	
NJHTFLGS	2	
NJHTFLG0	6	0
NJHTF0JB	6	80
NJHTLEN	0	
NJHTLENP	4	
NJHTLLEN	58	58
NJHTMOD	3	
NJHTTOKN	8	40404040
NJHTTYPE	2	
NJHU	0	
NJHU\$MOD	3	0
NJHUCODE	4	40404040
NJHUEND	8	
NJHUFLGS	2	
NJHULEN	0	
NJHULLEN	8	8
NJHUMOD	3	
NJHUTYPE	2	
NJH2	0	
NJH2\$MOD	3	0
NJH2\$RSV	3	1
NJH2ACCT	8	40404040
NJH2ACML	2C	34
NJH2DFJG	3C	20
NJH2END	3C	
NJH2ERST	3C	20
NJH2ESMF	3C	80
NJH2ETRC	3C	10
NJH2EUSR	3C	8
NJH2FJOB	3C	3



Table 24. Cross Reference for \$NHD (continued)

Name	Offset	Hex Tag
NJH2FLGS	2	
NJH2FLG1	4	0
NJH2FLG2	5	0
NJH2FSTC	3C	1
NJH2FTSU	3C	2
NJH2GRP	1C	0
NJH2LEN	0	
NJH2LLEN	3C	3C
NJH2LNAM	34	0
NJH2MOD	3	
NJH2SGRP	2C	0
NJH2SUSR	24	0
NJH2TP0	3C	8
NJH2TYPE	2	
NJH2USE	3C	4
NJH2USID	C	40404040
NJH2USR	14	0
NJT	0	
NJT\$ACCT	3	0
NJTAIPRI	2C	
NJTFLAGS	2	0
NJTG	4	
NJTG\$MOD	7	0
NJTGACPU	1C	0
NJTGACRD	24	0
NJTGALIN	20	0
NJTGAOPR	2F	
NJTGAXPR	2D	
NJTGCAB	30	80
NJTGCABN	30	5
NJTGCC	30	
NJTGCCAB	30	6
NJTGCCAN	30	4
NJTGCCC	30	40
NJTGCCNV	30	9
NJTGCECC	30	2
NJTGCEOM	30	8
NJTGCFLU	30	B
NJTGCJCL	30	3



Table 24. Cross Reference for \$NHD (continued)

Name	Offset	Hex Tag
NJTGCNRM	30	1
NJTGCODE	31	
NJTGCOMP	30	
NJTGCSEC	30	7
NJTGCSYS	30	A
NJTGCUNK	30	0
NJTGEND	34	
NJTGEXCP	28	0
NJTGFLGS	6	
NJTGFLG1	8	0
NJTGIOPR	2E	
NJTGIXPR	2C	
NJTGLEN	4	
NJTGLLEN	34	30
NJTGMOD	7	
NJTGSTOP	14	0
NJTGSTRT	C	0
NJTGTTYPE	6	
NJTGXCLS	9	C1
NJTLBCI	3	4
NJTLEN	0	
NJTLIPUS	20	
NJTLLEN	C	4C
NJTMAXLN	C	7B8B
NJTO	0	
NJTO\$MOD	3	80
NJTODATE	8	0
NJTOEND	C	
NJTOFLGS	2	
NJTOLEN	0	
NJTOLLEN	C	C
NJTOMOD	3	
NJTOTIME	4	0
NJTOTYPE	2	
NJTS	0	
NJTSABYT	8	0
NJTSAPAG	4	0
NJTSEND	C	
NJTSEQ	3	0



Table 24. Cross Reference for \$NHD (continued)

Name	Offset	Hex Tag
NJTSFLGS	2	
NJTSLEN	0	
NJTSLEN	C	C
NJTSMOD	3	
NJTSTYPE	2	
NJTU	0	
NJTU\$MOD	3	0
NJTUCODE	4	40404040
NJTUEND	8	
NJTUFLGS	2	
NJTULEN	0	
NJTULLEN	8	8
NJTUMOD	3	
NJTUTYPE	2	
NTYPACCT	78	8D
NTYPASP	78	81
NTYPGDS	78	89
NTYPGEN	78	0
NTYPGJS	78	8A
NTYPHASP	78	82
NTYPJES1	78	83
NTYPJES2	78	84
NTYPJES3	78	85
NTYPPWR	78	86
NTYPSAF	78	8C
NTYPSUB	78	80
NTYPUSER	78	C0
NTYPVNET	78	87

## \$NIT information

### \$NIT programming interface information

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

- NITNSACT
- NITPASS
- NITSPASS

### \$NIT heading information

**Common name:** Node Information Table



<b>Macro ID:</b>	\$NIT
<b>DSECT name:</b>	NIT NITPSECT NITC NITCO
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	The pool of NITs is preceded by an eyecatcher '**\$NIT POOL**' in the header for the pool. Offset: HDPID-HDP Length: 13
<b>Storage attributes:</b>	Subpool: 0 Key: 1 Residency: Virtual and real storage anywhere in the private storage of the JES2 address space.
<b>Size:</b>	NITMINL during JES2 initialization NITMINL plus NITPL*\$NUMPATH (later) NITCSIZ for checkpointed NITs (NITCs)
<b>Created by:</b>	JES2 initialization
<b>Pointed to by:</b>	\$NITABLE field of the \$HCT data area \$NITCPTR field of the \$HCT data area \$OWNNIT field of the \$HCT data area NSANIT field of the \$NSACT data area NITNXTSB field of the \$NIT data area NITPLINE field of the \$NIT data area NITPPNOD field of the \$NIT data area NATPNIT field of the \$NAT data area NATSNIT field of the \$NAT data area
<b>Serialization:</b>	JES2 main task serialization for most fields. There are some fields that can only be used under the subtask in "full path" processing. \$QSUSE is required to access the NITCs.
<b>Function:</b>	To define the nodes in the network this JES2 system is a part of, as well as the paths to those nodes. The NIT is a contiguous piece of virtual storage, with one element for each node (\$MAXNODE during initialization, (NJEDF NODENUM) after initialization). The correct length at any one time is in the \$NITESIZ HCT field.

## \$NIT mapping

Table 25. Structure NIT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NIT	
0	(0)	X'5'	0	NITVERS	"5" Current NIT version
0	(0)	CHARACTER	8	NITNODE	NODE IDENTIFICATION
8	(8)	SIGNED	2	NITNUM	INTERNAL NODE NUMBER (BINARY)
10	(A)	BITSTRING	1	NITPRINC	JOB RECEIVER PRIORITY INCREMENT
11	(B)	BITSTRING	1	NITPRLIM	JOB RECEIVER PRIORITY LIMIT
12	(C)	SIGNED	2	NITLOGN	LOGON DCT NUMBER
14	(E)	BITSTRING	1	NITFLAG	FLAGS



Table 25. Structure NIT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ....		NITFLAGE	"B'10000000'" SECURE signon required
		.1.. ....		NITFLAGA	"B'01000000'" AUTO DIAL BSC LINE
		..1. ....		NITFLAGX	"B'00100000'" EXCLUSIVE CONNECTION
		.... 1...		NITFLAGR	"B'00001000'" NODE RESTRICTED FROM LOCAL COMMANDS
		.... .1..		NITFLAGJ	"B'00000100'" NODE RESTRICTED FROM JOB COMMANDS
		.... ..1.		NITFLAGD	"B'00000010'" NODE RESTRICTED FROM DEVICE COMMANDS
		.... ...1		NITFLAGS	"B'00000001'" NODE RESTRICTED FROM SYSTEM COMMANDS
15	(F)	BITSTRING	1	NITFLG2	Flag byte
		1... ....		NIT2NOPM	"B'10000000'" Nonpath manager indicator
		.1.. ....		NIT2PRIV	"B'01000000'" Private node indicator
		..1. ....		NIT2TRAC	"B'00100000'" \$TRACE this node
		...1 ....		NIT2OWN	"B'00010000'" Local node indicator
		.... 1...		NIT2ADJ	"B'00001000'" Adjacent node indicator
		.... .1..		NIT2IRST	"B'00000100'" Ignore resistance from node if non-PM signon
		.... ..1.		NIT2ENDN	"B'00000010'" End node only indicator
		.... ...1		NIT2DIR	"B'00000001'" Only allow direct connection to node
16	(10)	BITSTRING	1	NITFLG3	Flag byte 3
		1... ....		NIT3HRDT	"B'10000000'" Node has STATUS=NODE RDT
		.1.. ....		NIT3ANJE	"B'01000000'" Automatically start NJE
		..1. ....		NIT3NVRP	"B'00100000'" Dont verify path for jobs
		...1 ....		NIT3J3LC	"B'00010000'" JES3 ROUTE XEQ local chk
17	(11)	BITSTRING	1	NITSF	SYSTEM CONDITION FLAGS
		1... ....		NITSFPJT	"B'10000000'" JOB TRANSMITTERS ARE DRAINED
		.1.. ....		NITSFPJR	"B'01000000'" JOB RECEIVERS ARE DRAINED
		..1. ....		NITSFPST	"B'00100000'" SYSOUT TRANSMITTERS ARE DRAINED
		...1 ....		NITSFPSR	"B'00010000'" SYSOUT RECEIVERS ARE DRAINED
		.... 1...		NITSFHJR	"B'00001000'" JOB RECEIVERS ARE TO HOLD JOBS
		.... .1..		NITSFHSR	"B'00000100'" SYSOUT RECEIVERS ARE TO HOLD JOBS
		.... ..1.		NITSFPEN	"B'00000010'" Use Password encryption
		.... ...1		NITSFREA	"B'00000001'" Node is currently reachable
18	(12)	SIGNED	2	NITANINT	Restart interval (minutes)
20	(14)	SIGNED	4	NITANTIM	Disconnect time (STCK)
24	(18)	CHARACTER	8	NITPASS	Password expected from node
32	(20)	CHARACTER	8	NITSPASS	Password sent to node
40	(28)	BITSTRING	1	NITCMPCT	COMPACTION TABLE ID



Table 25. Structure NIT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
41	(29)	BITSTRING	1		Reserved
42	(2A)	SIGNED	2	NITREST	DEFAULT APPL RESISTANCE
44	(2C)	SIGNED	4	(0)	
44	(2C)	ADDRESS	4	NITNSACT	Ptr to related NSACT entry
48	(30)	ADDRESS	4	NITNXTSB	Ptr to next NIT in subnet
52	(34)	CHARACTER	8	NITSUBST	Subnet name
60	(3C)	CHARACTER	8	NITLMODE	Default VTAM logmode
68	(44)	SIGNED	2	NITLINE	Dedicated line number
70	(46)	SIGNED	2	NITNSRV	NJE Server number
70	(46)	X'48'	0	NITMINL	"*-NIT" Minimum (INIT) NIT elmt len
72	(48)	ADDRESS	4	NITNAT	Chain of related NATs
76	(4C)	CHARACTER	8	NITSECLB	SECLABEL of node (SDSF use)

The following 3 fields are used by full path.

84	(54)	ADDRESS	4	NITNITPN	Next NIT in full path chain
88	(58)	ADDRESS	4	NITNITPP	Prev NIT in full path chain
92	(5C)	ADDRESS	4	NITBNITP	Addr of best unexplored NPMNITP
96	(60)	ADDRESS	4	NITRESV3	Reserved for future use
96	(60)	X'64'	0	NITBLEN	"*-NIT" Length of the base NIT
100	(64)	BITSTRING	1	NITPATH1	First path information

Table 26. Structure NITPSECT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NITPSECT	INDIVIDUAL PATH FIELDS
0	(0)	ADDRESS	4	NITPLINE	Associated DCT or NIT
0	(0)	X'0'	0	NITL	"NITPLINE-NITPSECT,4" Offset for line
4	(4)	ADDRESS	4	NITPREST	PATH RESISTANCE
4	(4)	X'4'	0	NITR	"NITPREST-NITPSECT,4" Offset for resistance
4	(4)	BITSTRING	0	NITPMT	"X'7FFFFFFF'" Indicate empty path
8	(8)	ADDRESS	4	NITPPNOD	Addr of prev NIT in path
12	(C)	BITSTRING	1	NITPFLAG	Flag byte
		1... ....		NITPFSTA	"B'10000000'" Path is via static connect
		.1... ....		NITPFNIT	"B'01000000'" NITPLINE points to a NIT
		..1. ....		NITPFSUB	"B'00100000'" Path is through a subnet
13	(D)	BITSTRING	1	NITPMEMB	Member number if NITPFSTA is set
13	(D)	X'D'	0	NITM	"NITPMEMB-NITPSECT,1" Offset for member
14	(E)	BITSTRING	1	NITPMEMP	Member with primary line
14	(E)	X'E'	0	NITMP	"NITPMEMP-NITPSECT,1" Offset for primary member
15	(F)	BITSTRING	1		Reserved for future use

Line and node IDs (indexes) shadowed from DCT or NIT pointed to by NITPLINE.



Table 26. Structure NITPSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
16	(10)	SIGNED	2	NITPLNID	DCT or NIT id
18	(12)	SIGNED	2	NITPNDID	Intermediate node id (MDCTNODE from DCT)
20	(14)	SIGNED	4	(0)	Ensure fullword alignment
20	(14)	X'14'	0	NITPL	"*-NITPSECT"
20	(14)	X'0'	0	NITP	"NITPSECT,NITPL" Path element
20	(14)	X'14'	0	NITPNEXT	"*"

Table 27. Structure NITC

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NITC	Checkpointed NIT
0	(0)	X'1'	0	NITCVRSN	"1" Current NITC version
0	(0)	CHARACTER	8	NITCNAME	Node name
8	(8)	CHARACTER	8	NITCSUB	SUBNET name
16	(10)	BITSTRING	4	NITCACAF	Mask of systems that have a path to this node
20	(14)	BITSTRING	1	NITCFLG1	Flags
		1... ....		NITCF1NP	"B'10000000'" PATHMGR=NO
		.1.. ....		NITCF1EN	"B'01000000'" ENDNODE=YES
		..1. ....		NITCF1PV	"B'00100000'" PRIVATE=YES
		...1 ....		NITCF1DI	"B'00010000'" DIRECT=YES
		.... 1...		NITCF1VP	"B'00001000'" VFYPATH=NO
		.... .1..		NITCF1PE	"B'00000100'" PENCRIPT=YES
		.... ..1.		NITCF1LC	"B'00000010'" JES3_LOCAL_CHK=YES
21	(15)	BITSTRING	3		Reserved
24	(18)	ADDRESS	4	(2)	Reserved
32	(20)	DBL WORD	8	(0)	Doubleword align
32	(20)	X'20'	0	NITCSIZ	"*-NITC" Length of a NITC

Table 28. Structure NITC0

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NITC0	Checkpointed NIT 0
0	(0)	SIGNED	4	NITC0SEQ	Changes sequence

Table 29. Cross Reference for \$NIT

Name	Offset	Hex Tag
NIT	0	
NITANINT	12	
NITANTIM	14	
NITBLEN	60	64
NITBNITP	5C	
NITC	0	
NITCACAF	10	
NITCFLG1	14	



Table 29. Cross Reference for \$NIT (continued)

Name	Offset	Hex Tag
NITCF1DI	14	10
NITCF1EN	14	40
NITCF1LC	14	2
NITCF1NP	14	80
NITCF1PE	14	4
NITCF1PV	14	20
NITCF1VP	14	8
NITCMPCT	28	0
NITCNAME	0	
NITCSIZ	20	20
NITCSUB	8	
NITCVRSN	0	1
NITC0	0	
NITC0SEQ	0	
NITFLAG	E	
NITFLAGA	E	40
NITFLAGD	E	2
NITFLAGE	E	80
NITFLAGJ	E	4
NITFLAGR	E	8
NITFLAGS	E	1
NITFLAGX	E	20
NITFLG2	F	
NITFLG3	10	
NITL	0	0
NITLINE	44	
NITLMODE	3C	
NITLOGN	C	
NITM	D	D
NITMINL	46	48
NITMP	E	E
NITNAT	48	
NITNITPN	54	
NITNITPP	58	
NITNODE	0	40404040
NITNSACT	2C	
NITNSRV	46	
NITNUM	8	0
NITNXTSB	30	



Table 29. Cross Reference for \$NIT (continued)

Name	Offset	Hex Tag
NITP	14	0
NITPASS	18	40404040
NITPATH1	64	
NITPFLAG	C	0
NITPFNIT	C	40
NITPFSTA	C	80
NITPFSUB	C	20
NITPL	14	14
NITPLINE	0	
NITPLNID	10	
NITPMEMB	D	
NITPMEMP	E	
NITPMT	4	FFFFFF
NITPNDID	12	
NITPNEXT	14	14
NITPPNOD	8	
NITPREST	4	
NITPRINC	A	0
NITPRLIM	B	F
NITPSECT	0	
NITR	4	4
NITREST	2A	
NITRESV3	60	
NITSECLB	4C	
NITSF	11	
NITSFHJR	11	8
NITSFHJR	11	4
NITSFPEN	11	2
NITSFPJR	11	40
NITSFPJT	11	80
NITSFPSR	11	10
NITSFPST	11	20
NITSFREA	11	1
NITSPASS	20	40404040
NITSUBST	34	
NITVERS	0	5
NIT2ADJ	F	8
NIT2DIR	F	1
NIT2ENDN	F	2



Table 29. Cross Reference for \$NIT (continued)

Name	Offset	Hex Tag
NIT2IRST	F	4
NIT2NOPM	F	80
NIT2OWN	F	10
NIT2PRIV	F	40
NIT2TRAC	F	20
NIT3ANJE	10	40
NIT3HRDT	10	80
NIT3J3LC	10	10
NIT3NVRP	10	20

## \$NJTWORK information

### \$NJTWORK programming interface information

\$NJTWORK is a programming interface.

### \$NJTWORK heading information

<b>Common name:</b>	JES2 Job Transmitter PCE Work Area
<b>Macro ID:</b>	\$NJTWORK
<b>DSECT name:</b>	PCE (\$NJTWORK is part of the PCE DSECT)
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'PCE ' Offset: PCEEYE-PCE Length: 4
<b>Storage attributes:</b>	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
<b>Size:</b>	See symbol JTWPCWEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
<b>Created by:</b>	See \$PCE
<b>Pointed to by:</b>	\$NJTPCE field of the \$HCT data area \$OJTPCE field of the \$HCT data area \$NRTPECE 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.
<b>Serialization:</b>	Normal PCE dispatch serialization



**Function:**

The fields in this work area are used by a JES2 Job Transmitter Processor and by its support routines and exits. \$NJTWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$NJTWORK are actually part of the PCE DSECT, but only map PCEs with the value PCENJTID or PCENRTID in the second byte of field PCEID.

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.

**\$NJTWORK mapping**

Table 30. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	BITSTRING	8	JTWKEY(0)	JOB AND DATA SET KEYS
336	(150)	BITSTRING	4	JTWJBKEY	JOB IDENTIFIER KEY
340	(154)	BITSTRING	4	JTWDSKEY	DATA SET KEY
344	(158)	DBL WORD	8	JTWEXTPL	\$EXTP PARAMETER LIST AREA
352	(160)	BITSTRING	528	JTWENCWK	Compression/encryption work area for gets
880	(370)	BITSTRING	1	JTWRSRCB	SRCB SAVED FOR ROUTE RECEIVER
881	(371)	BITSTRING	1	JTWRECTP	Saved spanned record type
882	(372)	SIGNED	2	JTWHDRLN	SAVE AREA FOR JCT HEADER LENGTH
884	(374)	SIGNED	4	JTWCOUNT	COUNT OF RECORDS TRANSMITTED
888	(378)	ADDRESS	4	JTWSBUF	SMF BUFFER POINTER
892	(37C)	ADDRESS	4	JTWDSBUF	JCL/SYSIN data buffer
896	(380)	DBL WORD	8	JTWCWKAR(0)	Common Work area
1904	(770)	DBL WORD	8		Reserved
1912	(778)	ADDRESS	4	JTWPARM	NODE TABLE ADDRESS
1916	(77C)	ADDRESS	4		CONTROL BLOCK ADDRESS
1920	(780)	ADDRESS	4		ADDRESS OF JQE
1924	(784)	ADDRESS	1		QUEUE TYPE SPECIFIED
1925	(785)	ADDRESS	1		WORK SELECTION TYPE FLAG
1926	(786)	ADDRESS	1		Response byte flags
1927	(787)	ADDRESS	1		Reserved
1927	(787)	X'778'	0	JTWLST	"JTWPARM, *-JTWPARM" QGET PARAMETER LIST STORAGE
1927	(787)	X'638'	0	JTWPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA

Table 31. Cross Reference for \$NJTWORK

Name	Offset	Hex Tag
JTWCOUNT	374	
JTWCWKAR	380	
JTWDSBUF	37C	
JTWDSKEY	154	
JTWENCWK	160	



Table 31. Cross Reference for \$NJTWORK (continued)

Name	Offset	Hex Tag
JTWEXTPL	158	
JTWHDRLN	372	
JTWJBKEY	150	
JTWKEY	150	
JTWLST	787	778
JTWPARM	778	
JTWPCWS	787	638
JTWRECTP	371	
JWRSRCB	370	
JWTSBUF	378	
PCE	0	

## \$NPIPARM information

### \$NPIPARM heading information

<b>Common name:</b>	HASPNSNR Parameter list
<b>Macro ID:</b>	\$NPIPARM
<b>DSECT name:</b>	NPISPARM
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	none
<b>Storage attributes:</b>	Subpool: any Key: 1 Residency: Private storage, Virtual storage below 2GB, real storage anywhere
<b>Size:</b>	See NPIPARML
<b>Created by:</b>	Callers of HASPNDCN service
<b>Pointed to by:</b>	
<b>Serialization:</b>	JES2 Main Task
<b>Function:</b>	Parameter list for HASPNDCN service in HASPNPM

### \$NPIPARM mapping

Table 32. Structure NPISPARM

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NPISPARM	
0	(0)	CHARACTER	8	NPIPLPAS	LINE PASSWORD
8	(8)	CHARACTER	8	NPINPAS	NODE PASSWORD
16	(10)	ADDRESS	4	NPINITA	Other node's NIT address
16	(10)	X'14'	0	NPIPARML	"*-NPISPARM"



# \$NRMWORK information

## \$NRMWORK heading information

<b>Common name:</b>	Network Resource Monitor Work Area
<b>Macro ID:</b>	\$NRMWORK
<b>DSECT name:</b>	PCE (\$NRMWORK is part of the PCE DSECT)
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'PCE ' Offset: PCEEYE-PCE Length: 4
<b>Storage attributes:</b>	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
<b>Size:</b>	See symbol NRMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
<b>Created by:</b>	See \$PCE
<b>Pointed to by:</b>	The \$NRMPCE field of the \$HCT data area points to Network Resource Monitor PCE. See \$PCE for other pointer fields that apply to all PCE types.
<b>Serialization:</b>	Normal PCE dispatch serialization
<b>Function:</b>	The fields in this work area are used by a JES2 Network Resource Monitor Processor and by its support routines and exits. \$NRMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$NRMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCENRMID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

## \$NRMWORK mapping

Table 33. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	
336	(150)	DBL WORD	8	NRMCTIME	Current time
344	(158)	DBL WORD	8	NRMWTIME	Next wakeup time
352	(160)	BITSTRING	1	NRMFLAG1	Flags
		1... ..		NRM1CONN	"B'10000000'" Attempting auto-connect
		.1.. ..		NRM1PAWS	"B'01000000'" Pause to let current request complete
		..1. ....		NRM1DBYP	"B'00100000'" Device start scan bypassed
353	(161)	BITSTRING	1	NRMBMDSP	\$BLDMSG DISPER value
354	(162)	SIGNED	2	NRMANINT	Temporary interval value



Table 33. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
356	(164)	BITSTRING	12	NRMTQE	NRM TQE
368	(170)	DBL WORD	8	NRMDWORK	Work area
Current control blocks					
376	(178)	ADDRESS	4	NRMNIT	Current NIT address
380	(17C)	ADDRESS	4	NRMSCK	Current SCK address
384	(180)	ADDRESS	4	NRMAPT	Current APT address
388	(184)	ADDRESS	4	NRMLNDCT	Current Line DCT address
392	(188)	ADDRESS	4	NRMLGDCT	Current Logon DCT address
396	(18C)	ADDRESS	4	NRMSDCT	Current NETSRV DCT address
396	(18C)	X'178'	0	NRMCBS	"NRMNIT, *-NRMNIT" All control blocks
SNASNET parms					
400	(190)	SIGNED	4	NRMSNET(0)	
400	(190)	SIGNED	4	NRMSSNLN	Line address
404	(194)	SIGNED	4	NRMSSNNM	APPL id address
408	(198)	SIGNED	4	NRMSSNMG	Returned message address
TCPSNET parms					
412	(19C)	SIGNED	4	NRMTSNET(0)	
412	(19C)	SIGNED	4	NRMTSNLN	Line address
416	(1A0)	SIGNED	4	NRMTSNNM	SOCKET name address
420	(1A4)	SIGNED	4	NRMTSNMG	Returned message address
HASPNSNR parms					
424	(1A8)	BITSTRING	20	NRMNSNRP	HASPNSNR parms
444	(1BC)	SIGNED	4	NRMBLDM(0)	Control block ID
448	(1C0)	BITSTRING	4		Console ID
452	(1C4)	ADDRESS	4		Address of the CART
456	(1C8)	ADDRESS	4		Pointer for JOBID
460	(1CC)	ADDRESS	4		Control block address
464	(1D0)	ADDRESS	4		Display routine address
468	(1D4)	ADDRESS	4	(6)	6 word work area
492	(1EC)	ADDRESS	4		Caller's R11 value
496	(1F0)	BITSTRING	2		ROUT code for Message
498	(1F2)	BITSTRING	2		Not used
500	(1F4)	CHARACTER	4		Message ID
504	(1F8)	CHARACTER	1		Separator character
505	(1F9)	ADDRESS	1		Flag byte 1
506	(1FA)	ADDRESS	1		'DISPER'
507	(1FB)	ADDRESS	1		Flag byte 2
508	(1FC)	ADDRESS	1		Flag byte 3
509	(1FD)	ADDRESS	1		Severity of message
510	(1FE)	CHARACTER	8		Symbolic name of dest.
518	(206)	BITSTRING	14		Not used



Table 33. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
532	(214)	ADDRESS	4	(0)	Ensure multiple of 4
532	(214)	ADDRESS	2	(0)	
532	(214)	CHARACTER	132	NRMSG	Returned message area
664	(298)	DBL WORD	8	(0)	Ensure alignment
664	(298)	X'148'	0	NRMPCEWS	"*-PCEWORK"

Table 34. Cross Reference for \$NRMWORK

Name	Offset	Hex	Tag
NRMANINT	162		
NRMAPT	180		
NRMBLDM	1BC	C2D3C440	
NRMBMDSP	161		
NRMCBS	18C		178
NRMCTIME	150		
NRMDWORK	170		
NRMFLAG1	160		
NRMLGDCT	188		
NRMLNDCT	184		
NRMSG	214		
NRMNIT	178		
NRMNSDCT	18C		
NRMNSNRP	1A8		
NRMPCEWS	298		148
NRMSCK	17C		
NRMSSNET	190		
NRMSSNLN	190		
NRMSSNMG	198		
NRMSSNNM	194		
NRMTQE	164		
NRMTSNET	19C		
NRMTSNLN	19C		
NRMTSNMG	1A4		
NRMTSNNM	1A0		
NRMWTIME	158		
NRM1CONN	160		80
NRM1DBYP	160		20
NRM1PAWS	160		40
PCE	0		



# **\$NSACT information**

## **\$NSACT programming interface information**

\$NSACT is a programming interface.

## **\$NSACT heading information**

<b>Common name:</b>	Network Subnet AnChor Table entry
<b>Macro ID:</b>	\$NSACT
<b>DSECT name:</b>	NSACT
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	NSA Offset: NSAID-NSACT Length: L'NSAID
<b>Storage attributes:</b>	Subpool: 0 Key: 1 Residency: Virtual storage can be anywhere in 31 bit storage. Real storage can be anywhere in 64 bit storage.
<b>Size:</b>	See NSALEN
<b>Created by:</b>	NSETSUBS routine in HASPNPM
<b>Pointed to by:</b>	PCTNSAAQ fields of the PCT data area NSANEXT fields of the NSACT data area
<b>Serialization:</b>	Normal PCE dispatch serialization
<b>Function:</b>	The NSACT is a linked list of the subnets currently defined to the system and a pointer to a list of NITs describing the members of that subnet.

## **\$NSACT mapping**

Table 35. Structure NSACT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NSACT	
0	(0)	CHARACTER	4	NSAID	Eyecatcher
4	(4)	ADDRESS	1	NSAVER	NSA version field
4	(4)	X'1'	0	NSAVERN	"1" NSA version number
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	CHARACTER	8	NSANAME	Subnet name
16	(10)	ADDRESS	4	NSANEXT	Next subnet pointer
20	(14)	ADDRESS	4	NSANIT	First NIT related to subnet
20	(14)	X'18'	0	NSALEN	"*-NSACT" Length of an NSACT



## \$NSCT information

### \$NSCT heading information

**Common name:** NJE Server Control Table

**Macro ID:** \$NSCT

**DSECT name:** NSCT

**Owning component:** JES2 (SC1BH)

**Eye-catcher ID:** 'NSCT'  
Offset: NSCID-NSC  
Length: 4

**Storage attributes:** Subpool: n/a  
Key: 1  
Residency: In a JES2 NJE Server address space

**Size:** See NSCTLEN

**Created by:** HASCNJAS

**Pointed to by:** NSSNSCT field of the \$NSST data area  
NSWNSCT field of the \$NSWE data area  
TCTJSDTA field of the IAZYTCT data area

**Serialization:**

**Function:** Anchors the main parameters in a JES2 NJE Server address space

### \$NSCT mapping

Table 36. Structure NSCT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NSCT	
0	(0)	CHARACTER	4	NSCID	NSCT eyecatcher
4	(4)	ADDRESS	1	NSCVER	NSCT version number
4	(4)	X'1'	0	NSCVERN	"1" NSCT version
5	(5)	BITSTRING	3		Reserved
8	(8)	ADDRESS	4	NSCSPCL	PCL address of server PCL
12	(C)	ADDRESS	4	NSCHCCT	HCCT address
16	(10)	ADDRESS	4	NSCTCT	IAZYTCT address
20	(14)	ADDRESS	4	NSCPALET	ALET for PCL data space
24	(18)	ADDRESS	4	NSCTALET	ALET for TBUF data space
28	(1C)	ADDRESS	4	NSCNALET	ALET for NIT data space
32	(20)	SIGNED	4	NSCTECB	ECB
36	(24)	BITSTRING	3	NSCDEVID	Device id of server
39	(27)	BITSTRING	1		Reserved
40	(28)	BITSTRING	4		Reserved
44	(2C)	ADDRESS	4	NSCNSSTH	Head of NSST chain
48	(30)	ADDRESS	4	NSCNSSTT	Tail of NSST chain
52	(34)	ADDRESS	4	NSCNSWEH	Head of subtask chain



Table 36. Structure NSCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	ADDRESS	4	NSCNSWET	Tail of subtask chain
60	(3C)	ADDRESS	4	NSCGPWEH	Head of GP subtask chain
64	(40)	ADDRESS	4	NSCGPWET	Tail of GP subtask chain
68	(44)	ADDRESS	4	NSCGPQEH	Head of GP subtask work q
72	(48)	ADDRESS	4	NSCGPQET	Tail of GP subtask work q
76	(4C)	ADDRESS	4	NSCNCPE	Address of POST element
80	(50)	ADDRESS	2	NSCGPCNT(2)	Initial/current subtask counts for GP subtasks
84	(54)	ADDRESS	2	NSCRQCNT(2)	Initial/current subtask counts for request subtask
88	(58)	ADDRESS	4	NSCBUFQ	Buffers queued for garbage collection
92	(5C)	SIGNED	4	NSCGPECB	GP subtask restart ECB
96	(60)	ADDRESS	4	(6)	Reserved
120	(78)	DBL WORD	8	NSCDWORK	Doubleword work area
128	(80)	SIGNED	4	NSCTSAVE(18)	Save area for init routine and server main task
200	(C8)	BITSTRING	624	NSCTTRCA	TRCA
824	(338)	DBL WORD	8	NSCTWORK(0)	Working storage
Parameter list for ESTAE macro					
824	(338)	SIGNED	4	(0)	
824	(338)	ADDRESS	1	NSCESTAE	FLAGS FOR ESTAE
825	(339)	ADDRESS	1		SECOND FLAG BYTE
826	(33A)	ADDRESS	1		THIRD FLAG BYTE
827	(33B)	ADDRESS	1		VERSION NUMBER
828	(33C)	ADDRESS	4		TOKEN VALUE AREA
832	(340)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
836	(344)	ADDRESS	4		ALET FOR PARM LIST
840	(348)	ADDRESS	4		EXIT ADDR NOT SPEC
840	(348)	X'14'	0	NSCESTLN	"*-NSCESTAE" Length of list form
Parameter list for IDENTIFY macro					
824	(338)	SIGNED	4	NSCIDENT(0)	IDENTIFY parm list (see IEAVID00 for details)
824	(338)	ADDRESS	4	NSCID_ADDR	Entry address
828	(33C)	CHARACTER	8	NSCID_NAME	Entry name
836	(344)	BITSTRING	1	NSCID_AMODE	AMODE indicator (X'02' --> 31 bit)
837	(345)	BITSTRING	3		Reserved
840	(348)	SIGNED	4	NSCID_XTLNG	Length of the extent list
844	(34C)	SIGNED	4	NSCID_XTCNT	Number of extents
848	(350)	SIGNED	4	NSCID_XTLEN	Length of extent
852	(354)	ADDRESS	4	NSCID_XTADR	Start of 1st extent
852	(354)	X'10'	0	NSCID_XTSIZ	"*-NSCID_XTLNG" Length of extent list area
Parameter list for STIMER macro					
824	(338)	ADDRESS	4	NSCDECB(2)	ECB list



Table 36. Structure NSCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
832	(340)	SIGNED	4	NSCDSTID	STIMER ID=id-area
836	(344)	SIGNED	4	NSCDTECB	STIMER ECB
MACDATE = 08/19/88					
840	(348)	BITSTRING	24	NSCDSTMS	REMOTE STIMER SET PARM LIST
MACDATE = 08/19/88					
864	(360)	BITSTRING	16	NSCDSTMC	REMOTE STIMER TEST/CANCEL PARM LIST
Parameter list for ENFREQ macro					
824	(338)	ADDRESS	4	NSCEECL(2)	ECB list
832	(340)	SIGNED	4	NSCETOKN	Token for ENFREQ DELETE
836	(344)	SIGNED	4	NSCENFPT	ENFPTR equated to this
840	(348)	SIGNED	4	NSCENFRQ(0)	START OF ENF PARAMETER LIST
840	(348)	ADDRESS	2		LENGTH OF ENF PARAMETER LIST
842	(34A)	ADDRESS	2		REQUESTED ENF ACTION
844	(34C)	ADDRESS	4		EVENT CODE
848	(350)	ADDRESS	1		FLAG FIELD
849	(351)	ADDRESS	1		MASK FOR COMPARING QUALIFIERS
850	(352)	ADDRESS	1		KEY FOR FREEPRM
851	(353)	ADDRESS	1		SUBPOOL FOR FREEPRM
852	(354)	ADDRESS	4		QUALIFIER
856	(358)	ADDRESS	4		EXIT ROUTINE ADDRESS
860	(35C)	ADDRESS	4		Address of caller's parameters
864	(360)	ADDRESS	4		TOKEN
868	(364)	ADDRESS	4		Length of caller's parameters
872	(368)	ADDRESS	2		VERSION OF PARM LIST
874	(36A)	ADDRESS	2		RESERVED FIELD
876	(36C)	ADDRESS	4		RETURN ADDRESS
880	(370)	CHARACTER	8		ESTABLISHER NAME
888	(378)	CHARACTER	8		LISTEN EXIT NAME
896	(380)	ADDRESS	4		LISTENER NUMBER (RETURNED)
900	(384)	CHARACTER	4		SPECIAL EXIT RETURN CODE
904	(388)	BITSTRING	32		Bit-mapped qualifier
936	(3A8)	ADDRESS	1		Flag byte
937	(3A9)	BITSTRING	3		Reserved
940	(3AC)	ADDRESS	4		Reserved
940	(3AC)	X'68'	0	NSCENFLN	"*-NSCENFRQ"
WTO parameter list					
1080	(438)	SIGNED	4	NSCWTOPL(0)	
1080	(438)	ADDRESS	2		TEXT LENGTH
1082	(43A)	BITSTRING	2		MCSFLAGS
1084	(43C)	CHARACTER	53		
1209	(4B9)	ADDRESS	1		VERSION LEVEL



Table 36. Structure NSCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1210	(4BA)	BITSTRING	1		MISCELLANEOUS FLAGS
1211	(4BB)	ADDRESS	1		REPLY LENGTH
1212	(4BC)	ADDRESS	1		LENGTH OF WPX
1213	(4BD)	BITSTRING	2		EXTENDED MCS FLAGS
1215	(4BF)	ADDRESS	2		RESERVED
1217	(4C1)	ADDRESS	4		REPLY BUFFER ADDRESS
1221	(4C5)	ADDRESS	4		REPLY ECB ADDRESS
1225	(4C9)	ADDRESS	4		CONNECT ID
1229	(4CD)	BITSTRING	2		DESCRIPTOR CODES
1231	(4CF)	ADDRESS	2		RESERVED
1233	(4D1)	BITSTRING	16		
1249	(4E1)	BITSTRING	2		MESSAGE TYPE
1251	(4E3)	ADDRESS	2		MESSAGE'S PRIORITY
1253	(4E5)	CHARACTER	8		JOB ID
1261	(4ED)	CHARACTER	8		JOB NAME
1269	(4F5)	CHARACTER	8		RETRIEVAL KEY
1277	(4FD)	ADDRESS	4		TOKEN FOR DOM
1281	(501)	ADDRESS	4		CONSOLE ID
1285	(505)	CHARACTER	8		SYSTEM NAME
1293	(50D)	CHARACTER	8		CONSOLE NAME
1301	(515)	ADDRESS	4		REPLY CONSOLE NAME/ID ADDR
1305	(519)	ADDRESS	4		CART ADDRESS
1309	(51D)	ADDRESS	4		WSPARM ADDRESS
1309	(51D)	X'521'	0	NSCTLEN	"*-NSCT" Length of NSCT

Table 37. Cross Reference for \$NSCT

Name	Offset	Hex	Tag
NSCBUFQ	58		
NSCDECBL	338		
NSCDEVID	24		
NSCDSTID	340		
NSCDSTMC	360		0
NSCDSTMS	348		0
NSCDTECB	344		
NSCDWORK	78		
NSCEEGBL	338		
NSCENFLN	3AC		68
NSCENFPT	344		
NSCENFRQ	348		
NSCESTAE	338		
NSCESTLN	348		14
NSCETOKN	340		



Table 37. Cross Reference for \$NSCT (continued)

Name	Offset	Hex Tag
NSCGPCNT	50	0
NSCGPECB	5C	
NSCGPQEH	44	
NSCGPQET	48	
NSCGPWEH	3C	
NSCGPWET	40	
NSCHCCT	C	
NSCID	0	D5E2C3E3
NSCID_ADDR	338	
NSCID_AMODE	344	
NSCID_NAME	33C	
NSCID_XTADR	354	
NSCID_XTCNT	34C	
NSCID_XTLEN	350	
NSCID_XTLNG	348	
NSCID_XTSIZ	354	10
NSCIDENT	338	
NSCNALET	1C	
NSCNCPE	4C	
NSCNSSTH	2C	
NSCNSSTT	30	
NSCNSWEH	34	
NSCNSWET	38	
NSCPALET	14	
NSCRQCNT	54	0
NSCSPCL	8	
NSCT	0	
NSCTALET	18	
NSCTCT	10	
NSCTECB	20	
NSCTLEN	51D	521
NSCTSAVE	80	
NSCTTRCA	C8	
NSCTWORK	338	
NSCVER	4	
NSCVERN	4	1
NSCWTOPL	438	



## \$NSRWORK information

---

### \$NSRWORK programming interface information

\$NSRWORK is a programming interface.

### \$NSRWORK heading information

<b>Common name:</b>	JES2 SYSOUT Receiver PCE Work Area
<b>Macro ID:</b>	\$NSRWORK
<b>DSECT name:</b>	PCE (\$NSRWORK is part of the PCE DSECT)
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'PCE ' Offset: PCEEYE-PCE Length: 4
<b>Storage attributes:</b>	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
<b>Size:</b>	See symbol SRWPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
<b>Created by:</b>	See \$PCE
<b>Pointed to by:</b>	The \$NSRPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first Network SYSOUT Receiver 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 \$OSRPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first Offload SYSOUT Receiver 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)
<b>Serialization:</b>	Normal PCE dispatch serialization
<b>Function:</b>	The fields in this work area are used by a JES2 Network SYSOUT Receiver or by an Offload SYSOUT Receiver Processor and by its support routines and exits. \$NSRWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$NSRWORK are actually part of the PCE DSECT, but only map PCEs with the value PCENSRID in the second byte of field PCEID. 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.



## \$NSRWORK mapping

Table 38. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	X'150'	0	SRWINIT	"*" START OF DATA TO BE ZEROED AT INITIALIZATION
336	(150)	BITSTRING	1	SRWSRCB	SRCB OF RECIEVED RECORD
337	(151)	SIGNED	1	SRWRETRY	IDENTIFIES RETRY POINT TO SET IF AN ABEND OCCURS
337	(151)	X'0'	0	SRWSUSP	"0" RETRY TO SUSPEND RECEIVER
337	(151)	X'1'	0	SRWRCANC	"1" RETRY TO CANCEL CURRENT JOB
338	(152)	SIGNED	1	SRWRETSV	PLACE TO SAVE CURRENT RETRY POINT INDICATOR
339	(153)	BITSTRING	1	SRWFLAGA	Data format flags (same as DSEFLAGA/ PDBFLAGA)
EQU B'11000000' Reserved do no use					
	..1. ....			SRWAENCR	"B'00100000'" Contained dataset is encrypted
	...1 ....			SRWACOMP	"B'00010000'" Contained dataset is compressed
	.... 1...			SRWAADVF	"B'00001000'" Advanced format HDBs
	.... .1..			SRWADATT	"B'00000100'" HDBs contain data block areas
EQU B'00000011' Reserved do no use					
340	(154)	BITSTRING	9		RESERVED
352	(160)	ADDRESS	4	SRWIOT1	1ST (ALLOCATION) IOT POINTER
356	(164)	ADDRESS	4	SRWIOTC	CURRENT IOT POINTER
360	(168)	ADDRESS	4	SRWENIOT	END-OF-CURRENT-IOT POINTER
364	(16C)	ADDRESS	4	SRWIOTCN	LAST NORMAL IOT ADDRESS
368	(170)	ADDRESS	4	SRWIOTSH	LAST SPIN IOT ADDRESS
372	(174)	ADDRESS	4	SRWDEFBF	Deferred buffer address
376	(178)	ADDRESS	8	SRWDATA	Data record address
384	(180)	ADDRESS	8	SRWSAVDA	Data address save area
392	(188)	SIGNED	4	SRWDSHCT	Data set header count
396	(18C)	ADDRESS	4	SRWENBUF	End-of-buffer pointer
400	(190)	ADDRESS	4	SRWNXTRC	Pointer to next rec in buf
404	(194)	ADDRESS	4	SRWGGST	ADDRESS OF GROUPING STRINGS OBJECT
408	(198)	SIGNED	4	(0)	ENSURE FULLWORD ALIGNMENT
408	(198)	CHARACTER	8	SRWRSBTL	SWBTU POINTER LIST ENTRY FOR SWBTUREQ RETRIEVE SERVICE
416	(1A0)	BITSTRING	8	SRWTABSV	Allocation TAB save area
424	(1A8)	SIGNED	4	SRWTSAVE(6)	TEMPORARY SAVE AREA
448	(1C0)	BITSTRING	1	SRWPFLG1	NPUT flag byte
	1... ....			SRWPF1TR	"B'10000000'" Truncate buffer
	.1.. ....			SRWPF1CL	"B'01000000'" Close data set
	..1. ....			SRWPF1M0	"B'00100000'" Expect multiple objects
	...1 ....			SRWPF1BS	"B'00010000'" HDB has a begin segment
	.... 1...			SRWPF1CP	"B'00001000'" Close is pending



Table 38. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... ...1		SRWPF1RL	"B'00000001" Resource limit detected
449	(1C1)	BITSTRING	1	SRWPINFL	SRWINFLG save area
450	(1C2)	SIGNED	2	SRWPRECL	Actual record length
452	(1C4)	SIGNED	2	SRWPRECT	Count of record starts
454	(1C6)	BITSTRING	1	SRWSCRLN	SCR length (SCRTLENG)
455	(1C7)	BITSTRING	1	SRWSCRTY	SCR Type (SCRTYPE)
456	(1C8)	SIGNED	8	SRWRECN	Basic data set record count
464	(1D0)	SIGNED	4	SRWCOUNT	COUNT OF RECORDS RECEIVED
468	(1D4)	ADDRESS	4	SRWSBUF	SMF BUFFER POINTER
472	(1D8)	SIGNED	4	SRWROUTE	Route cd for work selection
476	(1DC)	CHARACTER	8	SRWUSER	User ID for work selection
Information on last record read (passed to NSRDATA)					
484	(1E4)	CHARACTER	1	SRWCDCTL	Carriage control character
485	(1E5)	BITSTRING	1	SRWINFLG	Input record flags
486	(1E6)	SIGNED	2	SRWCDLRL	Card logical record length
486	(1E6)	X'98'	0	SRWINITL	"*-SRWINIT" LENGTH FOR INITIAL CLEAR
488	(1E8)	DBL WORD	8	SRWCWKAR(0)	SRW work area
INPUT AREA FOR RTAM RECORDS					
1848	(738)	SIGNED	2		ALIGNMENT + SCAN TERMINATOR
1850	(73A)	BITSTRING	274	SRWINPUT	Input Data Area
NORMAL (UNSPANNED) RECORD First mapping of SRWINPUT					
1850	(73A)	BITSTRING	1	SRWLRECL	LOGICAL RECORD LENGTH
1851	(73B)	BITSTRING	1	SRWCCTL	CARRIAGE CTL (OR TEXT IF NO CC)
1851	(73B)	X'73C'	0	SRWTEXT	"*" TEXT
1851	(73B)	X'2'	0	SRWLEN1	"*-SRWINPUT"
Second mapping of SRWINPUT Spanned record (first part)					
1850	(73A)	BITSTRING	1	SRWSEGL	TEXT LENGTH, THIS SEGMENT
1851	(73B)	SIGNED	2	SRWSRECL	LRECL FOR ENTIRE SPANNED RECORD
1853	(73D)	BITSTRING	1	SRWSCCTL	CARRIAGE CTL (OR TEXT IF NO CC)
1853	(73D)	X'73E'	0	SRWSTXT1	"*" START OF TEXT
1853	(73D)	X'4'	0	SRWLEN2	"*-SRWINPUT"
Third mapping of SRWINPUT Spanned record (Second & subsequent parts)					
1850	(73A)	BITSTRING	1		TEXT LENGTH, THIS SEGMENT
1850	(73A)	X'73B'	0	SRWSTXT2	"*" START OF TEXT
1850	(73A)	X'1'	0	SRWLEN3	"*-SRWINPUT"
End of SRWINPUT mappings.					
1852	(73C)	ADDRESS	2	(0)	Ensure that SRWINPUT
1852	(73C)	ADDRESS	2	(0)	is larger than each



Table 38. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1852	(73C)	ADDRESS	2	(0)	of the individual
2128	(850)	SIGNED	8	SRWRECNT	SYSOUT record count
2136	(858)	SIGNED	8	SRWPGCT	SYSOUT page count
2144	(860)	SIGNED	8	SRWBYTCT	SYSOUT byte count
2152	(868)	BITSTRING	6	SRWPRVTK	Previous buffer track MQTR
2158	(86E)	BITSTRING	6	SRWPRVOB	Prev object start MQTR (used to set HDBDATPR)
The following fields track the total bytes written by the job using data blocks					
2168	(878)	ADDRESS	8	SRWBYTEC	Total job uncompressed byte count
2176	(880)	ADDRESS	8	SRWBCOMP	Total job compressed byte count
2184	(888)	SIGNED	4	SRWCMPCT	Compressed data set count
2188	(88C)	SIGNED	4	SRWENCCT	Encrypted data set count
2188	(88C)	X'878'	0	SRWENCFL	"SRWBYTEC,*-SRWBYTEC" Composite of all encryption stat fields
2188	(88C)	X'740'	0	SRWPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA

Table 39. Cross Reference for \$NSRWORK

Name	Offset	Hex Tag
PCE	0	
SRWAADVF	153	8
SRWACOMP	153	10
SRWADATT	153	4
SRWAENCR	153	20
SRWBCOMP	880	
SRWBYTCT	860	0
SRWBYTEC	878	
SRWCCTL	73B	
SRWCDCTL	1E4	
SRWCDLRL	1E6	
SRWCMPCT	888	
SRWCOUNT	1D0	
SRWCWKAR	1E8	
SRWDATA	178	
SRWDEFBF	174	
SRWDSHCT	188	
SRWENBUF	18C	
SRWENCCT	88C	
SRWENCFL	88C	878
SRWENIOT	168	
SRWFLAGA	153	



Table 39. Cross Reference for \$NSRWORK (continued)

Name	Offset	Hex Tag
SRWGGST	194	
SRWINFLG	1E5	
SRWINIT	150	150
SRWINITL	1E6	98
SRWINPUT	73A	
SRWIOTC	164	
SRWIOTCN	16C	
SRWIOTSH	170	
SRWIOT1	160	
SRWLEN1	73B	2
SRWLEN2	73D	4
SRWLEN3	73A	1
SRWLRECL	73A	
SRWNXTRC	190	
SRWPCEWS	88C	740
SRWPFLG1	1C0	
SRWPF1BS	1C0	10
SRWPF1CL	1C0	40
SRWPF1CP	1C0	8
SRWPF1M0	1C0	20
SRWPF1RL	1C0	1
SRWPF1TR	1C0	80
SRWPGCT	858	0
SRWPINFL	1C1	
SRWPRECL	1C2	
SRWPRECT	1C4	
SRWPRVOB	86E	
SRWPRVTK	868	
SRWRCANC	151	1
SRWRECN	1C8	
SRWRECNT	850	0
SRWRETRY	151	
SRWRETSV	152	
SRWROUTE	1D8	
SRWRSBTL	198	
SRWRSUSP	151	0
SRWSAVDA	180	
SRWSBUF	1D4	
SRWSCCTL	73D	



Table 39. Cross Reference for \$NSRWORK (continued)

Name	Offset	Hex Tag
SRWSCRLN	1C6	
SRWSCRTY	1C7	
SRWSEGL	73A	
SRWSRCB	150	
SRWSRECL	73B	
SRWSTXT1	73D	73E
SRWSTXT2	73A	73B
SRWTABSV	1A0	
SRWTEXT	73B	73C
SRWTSAVE	1A8	
SRWUSER	1DC	

## \$NSST information

### \$NSST heading information

<b>Common name:</b>	NJE Server Subtask Table
<b>Macro ID:</b>	\$NSST
<b>DSECT name:</b>	NSST
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'NSST' Offset: NSSID-NSS Length: 4
<b>Storage attributes:</b>	Subpool: 0 Key: 1 Residency: In a JES2 NJE Server address sSpace
<b>Size:</b>	See NSSTLEN
<b>Created by:</b>	HASCNJEX (Subtask initialization routine from IAZNJTCP)
<b>Pointed to by:</b>	NSCNSSTH field of the \$NSCT data area NSCNSSTT field of the \$NSCT data area NSSNEXT field of the \$NSST data area NSSPREV field of the \$NSST data area TBFLNSST field of the \$TBUF data area TSCTJSDT field of the IAZYTSCT data area
<b>Serialization:</b>	
<b>Function:</b>	Contains the relevant data for a single NJE connection in the NETSRV data space.



## \$NSST mapping

Table 40. Structure NSST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NSST	
0	(0)	CHARACTER	4	NSSID	NSST eyecatcher
4	(4)	ADDRESS	1	NSSVER	NSST version number
4	(4)	X'1'	0	NSSVERN	"1" NSST version
5	(5)	BITSTRING	3		Reserved
8	(8)	ADDRESS	4	NSSLPCL	PCL address of line PCL
12	(C)	ADDRESS	4	NSSTSCT	IAZYTSCCT address
16	(10)	ADDRESS	4	NSSNSCT	NSCT address
20	(14)	ADDRESS	4	NSSNEXT	Next NSS chain pointer
24	(18)	ADDRESS	4	NSSPREV	Prev NSS chain pointer
28	(1C)	BITSTRING	3	NSSDEVID	Device id of line
31	(1F)	BITSTRING	1	NSSFLAG1	Flags
		1... ....		NSS1DEL	"B'10000000" NSST should be freed
		.1.. ....		NSS1WJ2	"B'01000000" Subdevices waiting for JES2 to come back
		..1. ....		NSS1NRTY	"B'00100000" Non-retryable error
		...1 ....		NSS1ACTV	"B'00010000" NSST is active
32	(20)	ADDRESS	4	NSSLTQH	Line request TBUF q head
36	(24)	ADDRESS	4	NSSLTQT	Line request TBUF q tail
40	(28)	SIGNED	4	NSSLTECB	ECB for line request response
44	(2C)	BITSTRING	16	NSSTTTOK	Subtask TCB token
60	(3C)	SIGNED	4	NSSTSAVE(18)	Save area for init routine and server main task
Pointers to work areas, by stream					
132	(84)	ADDRESS	4	NSSTJRWA(7)	Pointers to up to 7 JRWs
160	(A0)	ADDRESS	4	NSSTJTWA(7)	Pointers to up to 7 JTWs
188	(BC)	ADDRESS	4	NSSTSRWA(7)	Pointers to up to 7 SRWs
216	(D8)	ADDRESS	4	NSSTSTWA(7)	Pointers to up to 7 STWs
244	(F4)	ADDRESS	4	NSSTDVWA	Pointer to all work areas
248	(F8)	SIGNED	4	NSSTDVWL	Length of all work areas
252	(FC)	ADDRESS	4	NSSTACWA	Addr of current NJEWORK
256	(100)	SIGNED	2	NSSTTRSQ	\$NJETRC sequence
258	(102)	SIGNED	2		Reserved
260	(104)	ADDRESS	4	NSSTAREA	Address of rolling trace area for (non-subdevice related)
264	(108)	SIGNED	4	NSSTLOCK	NSST Lock word
268	(10C)	BITSTRING	624	NSSTTRCA	TRCA
892	(37C)	ADDRESS	4	NSSTLREQ	Address of LREQ TBUF (when Line REQuest "in progress")
896	(380)	DBL WORD	8	NSSTWORK(0)	Working storage
Parameter list for ESTAEX macro					
896	(380)	SIGNED	4	(0)	
896	(380)	ADDRESS	1	NSSESTAE	FLAGS FOR ESTAEX



Table 40. Structure NSST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
897	(381)	ADDRESS	1		SECOND FLAG BYTE
898	(382)	ADDRESS	1		THIRD FLAG BYTE
899	(383)	ADDRESS	1		VERSION NUMBER
900	(384)	ADDRESS	4		TOKEN VALUE AREA
904	(388)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
908	(38C)	ADDRESS	4		ALET FOR PARM LIST
912	(390)	ADDRESS	4		EXIT ADDR NOT SPEC'D
912	(390)	X'14'	0	NSSESTLN	"*-NSSESTAE" Length of list form
Parameter list for STIMER macro					
896	(380)	ADDRESS	4	NSSDECBL(2)	ECB list
904	(388)	SIGNED	4	NSSDSTID	STIMER ID=id-area
908	(38C)	SIGNED	4	NSSDTECB	STIMER ECB
MACDATE = 08/19/88					
912	(390)	BITSTRING	24	NSSDSTMS	REMOTE STIMER SET PARM LIST
MACDATE = 08/19/88					
936	(3A8)	BITSTRING	16	NSSDSTMC	REMOTE STIMER TEST/CANCEL PARM LIST
Parameter list for TCBTOKEN macro					
MACDATE = 04/03/89					
896	(380)	SIGNED	4	NSSTCBTK(0)	
896	(380)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
896	(380)	BITSTRING	8		
904	(388)	SIGNED	4		
908	(38C)	ADDRESS	4		
912	(390)	ADDRESS	4		ASCB ADDRESS (INPUT)
916	(394)	SIGNED	4	(0)	FLAGS (INPUT)
916	(394)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
917	(395)	SIGNED	3		RESERVED
1152	(480)	X'480'	0	NSSTLEN	"*-NSST" Length of NSST

Table 41. Cross Reference for \$NSST

Name	Offset	Hex Tag
NSSDECBL	380	
NSSDEVID	1C	
NSSDSTID	388	
NSSDSTMC	3A8	0
NSSDSTMS	390	0
NSSDTECB	38C	
NSSESTAE	380	
NSSESTLN	390	14



Table 41. Cross Reference for \$NSST (continued)

Name	Offset	Hex Tag
NSSFLAG1	1F	
NSSID	0	D5E2E2E3
NSSLPCL	8	
NSSLTECB	28	
NSSLTQH	20	
NSSLTQT	24	
NSSNEXT	14	
NSSNSCT	10	
NSSPREV	18	
NSST	0	
NSSTACWA	FC	
NSSTAREA	104	
NSSTCBTK	380	
NSSTDVWA	F4	
NSSTDVWL	F8	
NSSTJRWA	84	
NSSTJTWA	A0	
NSSTLEN	480	480
NSSTLOCK	108	
NSSTLREQ	37C	
NSSTSAVE	3C	
NSSTSCT	C	
NSSTRWA	BC	
NSSTSTWA	D8	
NSSTTRCA	10C	
NSSTTRSQ	100	
NSSTTTOK	2C	
NSSTWORK	380	
NSSVER	4	
NSSVERN	4	1
NSS1ACTV	1F	10
NSS1DEL	1F	80
NSS1NRTY	1F	20
NSS1WJ2	1F	40

## \$NSTWORK information

### \$NSTWORK programming interface information

\$NSTWORK is a programming interface.



## \$NSTWORK heading information

<b>Common name:</b>	JES2 Sysout Transmitter PCE Work Area
<b>Macro ID:</b>	\$NSTWORK
<b>DSECT name:</b>	PCE (\$NSTWORK is part of the PCE DSECT)
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'PCE ' Offset: PCEEYE-PCE Length: 4
<b>Storage attributes:</b>	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
<b>Size:</b>	See symbol STWPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
<b>Created by:</b>	See \$PCE
<b>Pointed to by:</b>	The \$NSTPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first network sysout transmitter 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 \$OSTPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first offload sysout transmitter 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.
<b>Serialization:</b>	Normal PCE dispatch serialization
<b>Function:</b>	The fields in this work area are used by the JES2 Network Sysout Transmitter and the Offload Sysout Transmitter processor and by its support routines and exits. \$NSTWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$NSTWORK are actually part of the PCE DSECT, but only map PCEs with the value PCENSTID in the second byte of field PCEID. 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.

## \$NSTWORK mapping

Table 42. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP NETWORK SYSOUT TRANSMITTER



Table 42. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
336	(150)	X'150'	0	STWINIT	"*" START OF DATA TO BE ZEROED AT INITIALIZATION
336	(150)	SIGNED	2	STWNODE	DESTINATION NODE FOR CURRNT JOB
338	(152)	BITSTRING	1	STWDCTF	FLAGS TO BE MOVED TO DCT
339	(153)	BITSTRING	1	STWJQEF	FLAGS TO BE MOVED TO JQE
340	(154)	BITSTRING	1	STWFLAG2	SPOOL OFFLOAD FLAG BYTE
		1... ..		STW\$HCQ	"B'10000000'" DS FOUND ON HARDCPY QUEUE
		.1... ..		STW\$NODH	"B'01000000'" This dataset header not to be sent (exit from multi-dest mode)
341	(155)	BITSTRING	1	STWFLAG4	General use flag byte
		1... ..		STW4JHS	"B'10000000'" Network job header needs to be sent for this data set
		.1... ..		STW4SMRC	"B'01000000'" Abend in \$SWBMERG cleanup call
		..1. ....		STW4HJOS	"B'00100000'" Hold all the JOEs on the transmitter chain
342	(156)	BITSTRING	1		Reserved
343	(157)	BITSTRING	1	STWJQEFA	Flags t/b moved to JQEFLAGA
344	(158)	ADDRESS	4	STWSPINJ	CURRENT SPIN JOE ADDRESS
348	(15C)	ADDRESS	4	STWDSBUF	DATA SET BUFFER ADDRESS
352	(160)	ADDRESS	4	STWENBUF	END-OF-BUFFER ADDR FOR COMPARISON
356	(164)	ADDRESS	4	STWHDBUF	DATA SET HEADER BUFFER ADDRESS
360	(168)	ADDRESS	4	STWHDTTR	MTTR OF BLOCK IN STWHDBUF
364	(16C)	BITSTRING	4		Alignment/reserved
Fields STWNSWB through STWIPSWL are used in handling the SWBIT buffer(s) containing any SWBTUs from the DSH data stream section.					
368	(170)	SIGNED	2	STWPSWBL	Total size of Pddb SWBTUs
370	(172)	SIGNED	2	STWJSWBL	Total size of JOE SWBTUs
372	(174)	SIGNED	2	STWPLSIZ	Size of SWBTU merge or splice pointer list entry
374	(176)	SIGNED	2	STWMRGLN	Length of merged SWBTU storage area
376	(178)	ADDRESS	4	STWSWBUF	Pddb SWBIT buffer chain
380	(17C)	ADDRESS	4	STWJSWBF	JOE SWBIT buffer chain
384	(180)	ADDRESS	4	STWSWMRG	Address of \$SWBMERG parameter list
388	(184)	ADDRESS	4	STWMRG TU	Address of merged SWBTU storage area
392	(188)	ADDRESS	4	STWSPLIC	Addr of spliced SWBTU
396	(18C)	ADDRESS	4	STWIPSWB	Address of merged SWBTU (after IPADDR processing)
400	(190)	SIGNED	2	STWSPLIL	Length of the spliced SWBTU
402	(192)	SIGNED	2	STWIPLN	Length of the IP SWB area
404	(194)	SIGNED	2	STWIPSWL	Length of the merged SWBTU (after IPADDR processing)
406	(196)	SIGNED	2		Reserved
408	(198)	SIGNED	4	STWSCRST	START ADDRESS OF SCR RECORD
412	(19C)	BITSTRING	6	STWMQTRL	MQTR for current buffer
418	(1A2)	BITSTRING	6	STWMQTRC	MQTR of current Pddb



Table 42. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
424	(1A8)	SIGNED	4	STWJQEO	JOB QUEUE ELEMENT OFFSET
428	(1AC)	BITSTRING	1	STWRECTP	SAVED SPANNED RECORD TYPE
429	(1AD)	BITSTRING	1	STWPFLG1	PDDBFLG1 OF LAST DS SENT
430	(1AE)	BITSTRING	6	STWNMQTR	News track MQTR for job
436	(1B4)	SIGNED	2	STWHDRLN	SAVE AREA FOR JCT HEADER LENGTH
438	(1B6)	BITSTRING	2		RESERVED
440	(1B8)	SIGNED	4	STWCOUNT	COUNT OF LOGICAL TP RECORDS
444	(1BC)	ADDRESS	4	STWSBUF	SMF BUFFER POINTER
448	(1C0)	DBL WORD	8	STWEXTPL	EXTP PARAMETER LIST AREA
456	(1C8)	DBL WORD	8	STWSTIME	SYSOUT TRANSMISSION START TIME
456	(1C8)	X'80'	0	STWINITL	"*-STWINIT" LENGTH TO CLEAR AT INITIALIZATION
464	(1D0)	DBL WORD	8	STWCWKAR(0)	Transmitter common wrk area
1512	(5E8)	DBL WORD	8	STWENCWK(0)	Compression/encryption work area for gets
2040	(7F8)	DBL WORD	8	(0)	
2040	(7F8)	X'7F8'	0	STWVAR	"*" START OF VARIABLE (OVERLAID) PORTION OF PCE WORK AREA
STWRIDW AND STWORK SHOULD NEVER BE SEPARATED BECAUSE THE TWO FIELDS ARE USED IN HASPSNA AS A CONSECUTIVE FIELD					
2040	(7F8)	BITSTRING	8	STWRIDW	EXTP PUT RID AREA
2048	(800)	CHARACTER	260	STWORK	WORK AREA FOR MESSAGES
2048	(800)	X'800'	0	STWREC	"STWORK" START OF TEXT CONSTRUCTION AREA FOR CONTROL RECORDS
2048	(800)	X'7B4'	0	STWPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA

Table 43. Cross Reference for \$NSTWORK

Name	Offset	Hex Tag
PCE	0	
STW\$HCQ	154	80
STW\$NODH	154	40
STWCOUNT	1B8	
STWCWKAR	1D0	
STWDCTF	152	
STWDSBUF	15C	
STWENBUF	160	
STWENCWK	5E8	
STWEXTPL	1C0	
STWFLAG2	154	
STWFLAG4	155	
STWHDBUF	164	
STWHDRLN	1B4	
STWHDTR	168	



Table 43. Cross Reference for \$NSTWORK (continued)

Name	Offset	Hex Tag
STWINIT	150	150
STWINITL	1C8	80
STWIPLN	192	
STWIPSWB	18C	
STWIPSWL	194	
STWJQEF	153	
STWJQEFA	157	
STWJQEO	1A8	
STWJSWBF	17C	
STWJSWBL	172	
STWMQTRC	1A2	
STWMQTRL	19C	
STWMRGLN	176	
STWMRGU	184	
STWNMQTR	1AE	
STWNODE	150	
STWPCEWS	800	7B4
STWPFLG1	1AD	
STWPLSIZ	174	
STWPSWBL	170	
STWREC	800	800
STWRECTP	1AC	
STWRIDW	7F8	
STWSBUF	1BC	
STWSCRST	198	
STWSPINJ	158	
STWSPLIC	188	
STWSPLIL	190	
STWSTIME	1C8	
STWSWBUF	178	
STWSWMRG	180	
STWVAR	7F8	7F8
STWORK	800	
STW4HJOS	155	20
STW4JHS	155	80
STW4SMRC	155	40



## \$NSWE information

### \$NSWE heading information

**Common name:** NJE Server Subtask Work Element

**Macro ID:** \$NSWE

**DSECT name:** NSW

**Owning component:** JES2 (SC1BH)

**Eye-catcher ID:** 'NSWE'  
Offset: 0  
Length: 4

**Storage attributes:** Subpool: 0  
Key: 0  
Residency: Private storage, Virtual storage below 2GB, real storage anywhere

**Size:** See NSWLEN

**Created by:** HASCNJAS

**Pointed to by:** NSCNSWEH field of the \$NSCT data area  
NSCNSWET field of the \$NSCT data area  
NSCGPWEH field of the \$NSCT data area  
NSCGPWET field of the \$NSCT data area  
NSWNEXT field of the \$NSWE data area  
NSWPREV field of the \$NSWE data area  
NSWGP NXT field of the \$NSWE data area  
NSWGPPRV field of the \$NSWE data area

**Serialization:** Used only by the subtask represented by the NSW.

**Function:** Represents a JES2-attached subtask in the server address space

### \$NSWE mapping

Table 44. Structure NSW

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NSWE	
0	(0)	CHARACTER	4	NSWEYE(0)	
0	(0)	BITSTRING	1	(0)	\$SAVE area (see \$PSV)
176	(B0)	CHARACTER	8	NSWNAME	Subtask name
184	(B8)	SIGNED	1	NSWNUM	Subtask number
185	(B9)	BITSTRING	3		Reserved
188	(BC)	ADDRESS	4	NSWNEXT	Previous element on chain
192	(C0)	ADDRESS	4	NSWPREV	Next element on chain
196	(C4)	ADDRESS	4	NSWETCB	TCB address
200	(C8)	ADDRESS	4	NSWRECA	Address of recovery routine
204	(CC)	CHARACTER	8	NSWEPNAM	Entry point name (ATTACHX)
212	(D4)	SIGNED	4	NSWDTECB	DETACH ECB
216	(D8)	SIGNED	4	NSWQUECB	QUIESCE ECB



Table 44. Structure NSWE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
220	(DC)	ADDRESS	4	NSWNSCT	NSCT address
224	(E0)	ADDRESS	4	NSWCNTAD	Addr of subtask count fields in NSCT
228	(E4)	ADDRESS	4	NSWNSSLK	NSST address if a NSST lock is held SHARED by task
232	(E8)		1	NSWTTOK	Associated TCB token
248	(F8)	DBL WORD	8	NSWDWORK	DOUBLEWORD WORK AREA
256	(100)	DBL WORD	8	NSWDWRK2	DOUBLEWORD WORK AREA 2
256	(100)	X'F8'	0	NSWWRK16	"NSWDWORK,16,C'L' 16-byte work area @Z07LTCP"
264	(108)	SIGNED	4	(0)	
264	(108)	ADDRESS	1	NSWESTAE	FLAGS FOR ESTAEX
265	(109)	ADDRESS	1		SECOND FLAG BYTE
266	(10A)	ADDRESS	1		THIRD FLAG BYTE
267	(10B)	ADDRESS	1		VERSION NUMBER
268	(10C)	ADDRESS	4		TOKEN VALUE AREA
272	(110)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
276	(114)	ADDRESS	4		ALET FOR PARM LIST
280	(118)	ADDRESS	4		EXIT ADDR NOT SPEC'D
280	(118)	X'14'	0	NSWESTAL	"*-NSWESTAE" Length of ESTAEX list form
284	(11C)	SIGNED	2	NSWERRCT	Error count
286	(11E)	SIGNED	2	NSWATTCT	Attach count
288	(120)	SIGNED	4	NSWERRTM	Time of last error
MACDATE = 04/03/89					
292	(124)	SIGNED	4	NSWTCBTK(0)	
292	(124)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
292	(124)	BITSTRING	8		
300	(12C)	SIGNED	4		
304	(130)	ADDRESS	4		
308	(134)	ADDRESS	4		ASCB ADDRESS (INPUT)
312	(138)	SIGNED	4	(0)	FLAGS (INPUT)
312	(138)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
313	(139)	SIGNED	3		RESERVED
313	(139)	X'18'	0	NSWTCBTL	"*-NSWTCBTK" Length of TCBTOKEN list frm
320	(140)	DBL WORD	8	NSWTRCA(0)	TRCA
Map ATTACHX work area over TRCA SDUMP area					
MACDATE 06/29/23					
360	(168)	SIGNED	4	NSWATTSL(0)	
360	(168)	ADDRESS	4		DE OR EPLOC ADDRESS
364	(16C)	ADDRESS	4		DCB ADDRESS
368	(170)	ADDRESS	4		NEW FORMAT + ECB ADDR
372	(174)	ADDRESS	4		GSPL OR GSPV
376	(178)	ADDRESS	4		SHSPV OR SHSPL



Table 44. Structure NSWE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
380	(17C)	ADDRESS	4		EXIT ROUTINE ADDRESS
384	(180)	ADDRESS	2		DPMOD VALUE
386	(182)	ADDRESS	1		LPMOD VALUE
387	(183)	ADDRESS	1		STATUS BYTE
388	(184)	ADDRESS	4	(2)	EP NAME SPACE
396	(18C)	ADDRESS	4		ADDRESS OF JSCB
400	(190)	ADDRESS	4		(E)STAI PARM LIST
404	(194)	ADDRESS	4		EXIT ADDRESS
408	(198)	ADDRESS	4		TASKLIB
412	(19C)	ADDRESS	1		FLAG BYTE
413	(19D)	ADDRESS	1		TASK ID
414	(19E)	ADDRESS	2		PARM LIST LENGTH
416	(1A0)	ADDRESS	4		SUBPOOL LIST ADDRESS/VALUE
420	(1A4)	ADDRESS	1		SET FLAGS
421	(1A5)	ADDRESS	1		SET UP FORMAT NUMBER
422	(1A6)	ADDRESS	1		SET FLAGS
423	(1A7)	ADDRESS	1		RESERVED BYTE
424	(1A8)	ADDRESS	4		EPLOC/DE/EP ALET
428	(1AC)	ADDRESS	4		DCB ALET
432	(1B0)	ADDRESS	4		ECB ALET
436	(1B4)	ADDRESS	4		GSPL ALET
440	(1B8)	ADDRESS	4		SHSPL ALET
444	(1BC)	ADDRESS	4		JSCB ALET
448	(1C0)	ADDRESS	4		(E)STAI PARAMETER ALET
452	(1C4)	ADDRESS	4		TASKLIB ALET
456	(1C8)	ADDRESS	4		NSHSPL ALET
456	(1C8)	X'64'	0	NSWATTLN	"*-NSWATTSL" Length of list form
944	(3B0)	DBL WORD	8	NSWORG(0)	
Work area for general purpose subtasks					
944	(3B0)	ADDRESS	4	NSWGP NXT	Next available GP subtask
948	(3B4)	ADDRESS	4	NSWGPPRV	Previous subtask
952	(3B8)	ADDRESS	4	NSWSQD	SQD address
956	(3BC)	ADDRESS	4	NSWGPQ	Current work queue element
960	(3C0)	SIGNED	4	NSWGPECB	ECB for GP subtask
964	(3C4)	ADDRESS	4	NSWGECBL(2)	ECB list
972	(3CC)	BITSTRING	1	NSWGFLG1	Flags
		1... ....		NSWGF1CR	"B'10000000'" Subtask was CALLRTM'ed
		.1.. ....		NSWGF1RE	"B'01000000'" Subtask in recovery
Work area for request manager subtask					
944	(3B0)	ADDRESS	4	NSWTSCT	TSCT address
948	(3B4)	ADDRESS	4	NSWTCT	TCT address
952	(3B8)	ADDRESS	4	NSWNSST	NSST address
956	(3BC)	ADDRESS	4	NSWTBUF	TBUF address



Table 44. Structure NSW E (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
960	(3C0)	SIGNED	4	NSWSTECB	STIMER M ECB
964	(3C4)	SIGNED	4	NSWDSTID	STIMER M ID=id-area
968	(3C8)	ADDRESS	4	NSWRECB L(3)	ECB list
980	(3D4)	SIGNED	4	NSWENQPM(3)	Parameter list for NMS/NRQ queueing service
MACDATE = 08/19/88					
992	(3E0)	BITSTRING	24	NSWSTMST	REMOTE STIMER M SET PARM LIST
992	(3E0)	X'18'	0	NSWSTMSL	"*-NSWSTMST" List form length
MACDATE = 08/19/88					
1016	(3F8)	BITSTRING	16	NSWSTM CN	REMOTE STIMER M TEST/CANCEL PARM LIST
1016	(3F8)	X'10'	0	NSWSTMCL	"*-NSWSTM CN" List form length
1032	(408)	DBL WORD	8	(0)	
1032	(408)	X'408'	0	NSWELEN	"*-NSWE" Length of NSWE

Table 45. Cross Reference for \$NSWE

Name	Offset	Hex	Tag
NSWATTCT	11E		
NSWATTLN	1C8		64
NSWATTSL	168		
NSWCNTAD	E0		
NSWDSTID	3C4		
NSWDTECB	D4		
NSWDWORK	F8		
NSWDWRK2	100		
NSWE	0		
NSWELEN	408		408
NSWENQPM	3D4		
NSWEPNAM	CC		
NSWERRCT	11C		
NSWERRTM	120		
NSWESTAE	108		
NSWESTAL	118		14
NSWETCB	C4		
NSWEYE	0		
NSWGECBL	3C4		
NSWGFLG1	3CC		
NSWGF1CR	3CC		80
NSWGF1RE	3CC		40
NSWGPECB	3C0		



Table 45. Cross Reference for \$NSWE (continued)

Name	Offset	Hex Tag
NSWGP NXT	3B0	
NSWGPPRV	3B4	
NSWGPQ	3BC	
NSWNAME	B0	
NSWNEXT	BC	
NSWNSCT	DC	
NSWNSSLK	E4	
NSWNSST	3B8	
NSWNUM	B8	
NSWORG	3B0	
NSWPREV	C0	
NSWQUECB	D8	
NSWRECA	C8	
NSWRECB L	3C8	
NSWSQD	3B8	
NSWSTECB	3C0	
NSWSTMCL	3F8	10
NSWSTM CN	3F8	0
NSWSTM SL	3E0	18
NSWSTMST	3E0	0
NSWTBUF	3BC	
NSWTCBTK	124	
NSWTCBTL	139	18
NSWTCT	3B4	
NSWTRCA	140	
NSWT SCT	3B0	
NSWTTOK	E8	
NSWWRK16	100	F8

## \$NTRDATA information

### \$NTRDATA heading information

<b>Common name:</b>	NJE Server Trace data area
<b>Macro ID:</b>	\$NTRDATA
<b>DSECT name:</b>	NTR
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	none



**Storage attributes:** Subpool: 0  
Key: 0  
Residency: Private storage, Virtual storage below 2GB, real storage anywhere

**Size:** See NTRBLEN

**Created by:** \$JES2 TRACE facility

**Pointed to by:** Maps data starting at TTEDATA in a TTE entry

**Serialization:** \$TRACE

**Function:** Maps the \$TRACE data (starting at TTEDATA) in a JES2 trace buffer. Used for trace ids 34, 35, 36, 37, and 38.

## \$NTRDATA mapping

Table 46. Structure NTR

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NTR	, NJE Trace data
0	(0)	BITSTRING	3	NTRSDVID	Server device id
3	(3)	BITSTRING	3	NTRLDVID	Line device id
6	(6)	BITSTRING	1	NTRFLOW	Flow direction of record
		1... ....		NTRFFJ2M	"B'10000000'" From: JES2 main addrspc
		.1.. ....		NTRFFJ2N	"B'01000000'" From: JES2 netsrv addrspc
		..1. ....		NTRFFIAZ	"B'00100000'" From: Common netsrv code
		...1 ....		NTRFFTCP	"B'00010000'" From: TCP/IP
		.... 1...		NTRFTJ2M	"B'00001000'" To: JES2 main addrspc
		.... .1..		NTRFTJ2N	"B'00000100'" To: JES2 netsrv addrspc
		.... ..1.		NTRFTIAZ	"B'00000010'" To: Common netsrv code
		.... ...1		NTRFTTCP	"B'00000001'" To: TCP/IP
<p>NTRTYPE contains either one of the types below, or either the RCB or SRCB of the record indicating the type of record. The corresponding hex values for each record recognized are as follows:</p> <p>X'00' - EOT (SRCB of EOT record, from RIDXEOT)  X'01' - NRQ (NTRTNRQ, from TBFTNRQ)  X'02' - NMS (NTRTNMS, from TBFTNMS)  X'03' - LREQ (NRTLREQ, from TBFTLREQ)  X'04' - JOB (NTRTJOB, from TBFTJOB)  X'05' - CONN (NTRTCONN, from TBFTCONN)  X'40' - Transmitter cancel (SRCB of TC, from RIDXTC)  X'90' - Request to init (RCB of RI, from RIDALOCs)  X'B0' - Receiver cancel (RCB of RC, from RIDPDRc)  X'C0' - Job header (SRCB of JH, from SRCBJH)  X'C1' - ACK EOT (RCB of ACK EOT from RIDAKEOT, plus one to differentiate from job header)  X'D0' - Job trailer (SRCB of JT, from SRCBJT)  X'E0' - Dataset header (SRCB of DSH, from SRCBDSh)  X'FF' - Data</p>					
7	(7)	BITSTRING	1	NTRTYPE	Data type
7	(7)	X'FF'	0	NTRTDATA	"FF" Contains data only
7	(7)	X'1'	0	NTRTNRQ	"TBFTNRQ" Contains a NRQ
7	(7)	X'2'	0	NTRTNMS	"TBFTNMS" Contains a NMS
7	(7)	X'3'	0	NRTLREQ	"TBFTLREQ" Contains a LINE request
7	(7)	X'4'	0	NTRTJOB	"TBFTJOB" Contains a JOB request



Table 46. Structure NTR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
7	(7)	X'5'	0	NTRTCONN	"TBFTCONN" Contains a CONNECT request
8	(8)	DBL WORD	8	NTRQTIME	Queue time
16	(10)	DBL WORD	8	NTRRTIME	Total request time
24	(18)	ADDRESS	4	NTRDADD	Actual data address
28	(1C)	SIGNED	2	NTRDLEN	Length of variable data
28	(1C)	X'1E'	0	NTRBLEN	"*-NTR"
28	(1C)	X'1E'	0	NTRDATA	"*"

Table 47. Cross Reference for \$NTRDATA

Name	Offset	Hex Tag
NTR	0	
NTRBLEN	1C	1E
NTRDADD	18	
NTRDATA	1C	1E
NTRDLEN	1C	
NTRFFIAZ	6	20
NTRFFJ2M	6	80
NTRFFJ2N	6	40
NTRFFTCP	6	10
NTRFLOW	6	
NTRFTIAZ	6	2
NTRFTJ2M	6	8
NTRFTJ2N	6	4
NTRFTTCP	6	1
NTRLDVID	3	
NTRQTIME	8	
NTRRTIME	10	
NTRSDVID	0	
NTRTCONN	7	5
NTRTDATA	7	FF
NTRTJOB	7	4
NTRTLREQ	7	3
NTRTNMS	7	2
NTRTNRQ	7	1
NTRTYPE	7	

## \$NTW information

### \$NTW programming interface information

\$NTW is a programming interface.



## \$NTW heading information

<b>Common name:</b>	HASP Network Path Manager Trace Work Area
<b>Macro ID:</b>	\$NTW
<b>DSECT name:</b>	NTW
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'NTW ' Offset: NTWID-NTW Length: 4
<b>Storage attributes:</b>	Subpool: Subpool 0 for the permanent NTW; Subpool 1 for the temporary NTW. Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M), in the private storage of the JES2 address space.
<b>Size:</b>	See NTWLEN
<b>Created by:</b>	JES2 Initialization JES2 Line Manager Processor
<b>Pointed to by:</b>	PCTNTW field of the \$PCT data area (for the permanent work area created during JES2 initialization.)
<b>Serialization:</b>	No special serialization other than that currently implied by the Network Path Manager.
<b>Function:</b>	This DSECT maps a work area used to save information to be included in the following trace records: trace id 21, 22, 23 and 24. There are 2 types of NTWs: permanent and temporary. The permanent one is obtained for the Network Path Manager and is used for most of the traces issued by the Network Path Manager. The temporary NTW is used by the Line Manager when sending an I-record. The data in the NTW is used as an object of a \$TRACE macro (DATA=, LEN=). The trace formatting routine uses the \$TRACE macro to convert the internal representation to a printable format.

## \$NTW mapping

Table 48. Structure NTW

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NTW	
0	(0)	CHARACTER	4	NTWID	NTW identifier
4	(4)	ADDRESS	1	NTWVERS	NTW version
4	(4)	X'2'	0	NTWVERSN	"2" Version number
8	(8)	SIGNED	4	NTWSTART(0)	Start of \$TRACE data
8	(8)	CHARACTER	1	NTWTYPE	Rec type: M, N, I, J, K, L,
9	(9)	BITSTRING	1	NTWFLAG1	
		1... ....		NTW1SEND	"B'10000000'" This is a send record



Table 48. Structure NTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1.. ....		NTW1DFUL	"B'01000000'" Rec discon. by full path
		..1. ....		NTW1FFUL	"B'00100000'" Rec forced full path rout.
		...1 ....		NTW1NCC	"B'00010000'" An NCC was passed
		.... 1...		NTW1GAR	"B'00001000'" Record is garbage
		.... .1..		NTW1MAS	"B'00000100'" MAS validation NCC record
		.... ..1.		NTW1MASP	"B'00000010'" MAS validation pending
		.... ...1		NTW1MASD	"B'00000001'" MAS validation completed
10	(A)	BITSTRING	1	NTWSTAT	Status for connection
11	(B)	BITSTRING	1	NTWOSTAT	Previous status for conn
12	(C)	BITSTRING	1	NTWRRC	Reason code for why record Was rejected or sent
13	(D)	ADDRESS	1	NTWMEMB	Node qualifier
14	(E)	ADDRESS	2	NTWNODE	Node from which record rcvd
16	(10)	CHARACTER	8	NTWCONS	Where record was from: LINEnnnn, MLINE, 'FULLPATH', 'LINEDOWN', 'CONSOLE', 'PARMLIB'
24	(18)	SIGNED	4	NTWOCES	Previous CES
24	(18)	X'4'	0	NTWCESL	"4" Length of unconverted CES
24	(18)	X'10'	0	NTWCCESL	"16" Length of converted CES
28	(1C)	SIGNED	4	NTWREC(0)	
28	(1C)	BITSTRING	20	NTWNAT	Space for NAT record
28	(1C)	BITSTRING	41	NTWNCCI	Space for NCC I/J record
28	(1C)	BITSTRING	9	NTWNCK	Space for NCC K/L record
28	(1C)	BITSTRING	27	NTWNCCM	Space for NCC M/N record
28	(1C)	BITSTRING	3	NTWNCCB	Space for NCC B record
69	(45)	X'3D'	0	NTWSIZE	"*-NTWSTART" Size of NPM trace record
69	(45)	X'45'	0	NTWLEN	"*-NTW" Len of NPM work area
NTWRRC Reason codes					
69	(45)	X'1'	0	NTWRINN	"1" Invalid Node Name
69	(45)	X'2'	0	NTWRMEM	"2" Invalid Member Number
69	(45)	X'3'	0	NTWRNSA	"3" No Storage Available
69	(45)	X'4'	0	NTWRICR	"4" Invalid resistance
69	(45)	X'5'	0	NTWRICS	"5" Invalid CES
69	(45)	X'6'	0	NTWRNDA	"6" No Devices Available
69	(45)	X'7'	0	NTWRTOL	"7" TOD Tolerance exceeded
69	(45)	X'8'	0	NTWRILP	"8" Invalid Line Password
69	(45)	X'9'	0	NTWRINP	"9" Invalid Node Password
69	(45)	X'A'	0	NTWRLNX	"10" Line Not Transparent
69	(45)	X'B'	0	NTWRIGN	"11" Ignored, Line Active
69	(45)	X'C'	0	NTWRGARB	"12" Ignored, Invalid record
69	(45)	X'D'	0	NTWRERR	"13" Ignored, ABEND processing
69	(45)	X'E'	0	NTWRKNOW	"14" Ignored, more recent connect exists



Table 48. Structure NTW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
69	(45)	X'F'	0	NTWROWN	"15" Connection involves local node and member
69	(45)	X'10'	0	NTWRIFF	"16" Invalid NJE signon feature flags
69	(45)	X'11'	0	NTWRIPM	"17" Incorrect value for PATHMGR=
69	(45)	X'12'	0	NTWRIPT	"18" Non path manager CES received
69	(45)	X'13'	0	NTWRNOIB	"19" PREVIOUS I OR J RECORD WAS NOT ONLY IN BUFFER
69	(45)	X'14'	0	NTWROLDR	"20" IGNORED, AN OLD SUBTRACT NCC RECORD WAS RECEIVED
69	(45)	X'15'	0	NTWRLNPM	"21" IGNORED, RECORD RECEIVED ON A NON-PM LINE
69	(45)	X'16'	0	NTWRIGNA	"22" Ignored, line no longer active
69	(45)	X'17'	0	NTWRDUPM	"23" Duplicate primary and secondary node/member
69	(45)	X'18'	0	NTWRIMT	"24" Incorrect multi-trunk
69	(45)	X'19'	0	NTWRDCES	"25" Records with duplicate CES values were received
69	(45)	X'1A'	0	NTWRIPW	"26" Incorrect secure signon

Table 49. Cross Reference for \$NTW

Name	Offset	Hex	Tag
NTW	0		
NTWCCESL	18		10
NTWCESL	18		4
NTWCONS	10		
NTWFLAG1	9		
NTWID	0	D5E3E640	
NTWLEN	45		45
NTWMEMB	D		
NTWNAT	1C		
NTWNCCB	1C		
NTWNCCI	1C		
NTWNCKK	1C		
NTWNCCM	1C		
NTWNODE	E		
NTWOCES	18		
NTWOSTAT	B		
NTWRDCES	45		19
NTWRDUPM	45		17
NTWREC	1C		
NTWRERR	45		D
NTWRGARB	45		C
NTWRICR	45		4
NTWRICS	45		5



Table 49. Cross Reference for \$NTW (continued)

Name	Offset	Hex Tag
NTWRIFF	45	10
NTWRIGN	45	B
NTWRIGNA	45	16
NTWRILP	45	8
NTWRIMT	45	18
NTWRINN	45	1
NTWRINP	45	9
NTWRIPM	45	11
NTWRIPT	45	12
NTWRIPW	45	1A
NTWRKNOW	45	E
NTWRLNPM	45	15
NTWRLNX	45	A
NTWRMEM	45	2
NTWRNDA	45	6
NTWRNOIB	45	13
NTWRNSA	45	3
NTWROLDR	45	14
NTWROWN	45	F
NTWRRC	C	
NTWRTOL	45	7
NTWSIZE	45	3D
NTWSTART	8	
NTWSTAT	A	
NTWTYPE	8	
NTWVERS	4	
NTWVERSN	4	2
NTW1DFUL	9	40
NTW1FFUL	9	20
NTW1GAR	9	8
NTW1MAS	9	4
NTW1MASD	9	1
NTW1MASP	9	2
NTW1NCC	9	10
NTW1SEND	9	80



# \$NVL information

## \$NVL programming interface information

\$NVL is a programming interface.

## \$NVL heading information

<b>Common name:</b>	Volume Allocation Table
<b>Macro ID:</b>	\$NVL
<b>DSECT name:</b>	NVL
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	None
<b>Storage attributes:</b>	Subpool: 0 Key: 1 Residency: Virtual and real storage are in 31 bit storage in the private storage of the JES2 address space.
<b>Size:</b>	See NVLTBLN
<b>Created by:</b>	HASPIRMA
<b>Pointed to by:</b>	CIRVOLTB field of the \$CIRWORK data area
<b>Serialization:</b>	None required
<b>Function:</b>	Maps the description of SPOOL volumes defined via initialization statements or discovered via a UCB scan.

## \$NVL mapping

Table 50. Structure NVL

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NVL	Allocation table entry DSECT
0	(0)	CHARACTER	6	NVLVOLID	Volume serial number
6	(6)	CHARACTER	44	NVLDSN	Data set name
50	(32)	BITSTRING	1	NVLFLAGS	Allocation request flags
51	(33)	BITSTRING	1	NVLTYPE	NVL type flag
	1... ....			NVLINIT	"B'10000000'" Init statement created
52	(34)	BITSTRING	128	NVLSYAFN	Spool system affinity name list
180	(B4)	ADDRESS	4	NVLUCBPT	Volume UCB address
184	(B8)	CHARACTER	8	NVLPTOKN	PIN token from \$GETUCBS
192	(C0)	DBL WORD	8	(0)	
192	(C0)	X'C0'	0	NVLTBLN	"*-NVL" Length of NVL table

Table 51. Cross Reference for \$NVL

Name	Offset	Hex Tag
NVL	0	
NVLDSN	6	



Table 51. Cross Reference for \$NVL (continued)

Name	Offset	Hex Tag
NVLFLAGS	32	
NVLINIT	33	80
NVLPTOKN	B8	
NVLSYAFN	34	
NVLTBLN	C0	C0
NVLTYPE	33	
NVLUCBPT	B4	
NVLVOLID	0	

## \$OCR information

### \$OCR programming interface information

\$OCR is a programming interface.

### \$OCR heading information

<b>Common name:</b>	OUTPUT Control Record DSECT
<b>Macro ID:</b>	\$OCR
<b>DSECT name:</b>	OCR
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	None
<b>Storage attributes:</b>	Subpool: See \$OCT Key: See \$OCT Residency: See \$OCT
<b>Size:</b>	See OCRLENG
<b>Created by:</b>	Initially created by HASPRCCS routine in HASCSRIP when a job encounters a /*OUTPUT card.
<b>Pointed to by:</b>	OCRs reside in the OCT starting at label OCTOCR. The offset beyond the last OCR in the OCT is in OCTOFOCR.
<b>Serialization:</b>	While a job is in execution, the OCR resides in the user address space, so that no other JES2 PCE will update the OCR. At other times, the JES2 dispatcher is used.
<b>Function:</b>	The \$OCR contains the information supplied on a /*OUTPUT JES2 JCL statement. The OCRs are contained in the OCT.



## \$OCR mapping

Table 52. Structure OCR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	OCR	OUTPUT CONTROL RECORD DSECT
0	(0)	CHARACTER	4	OCRCODE	FORMS CODE
4	(4)	CHARACTER	5	(0)	KEEP MOD AND MODC TOGETHER
4	(4)	CHARACTER	4	OCRMODF	N/I PRINTER COPY-MOD IMAGE
8	(8)	BITSTRING	1	OCRMODFT	N/I PRINTER MODIFY TAB REF CHAR
9	(9)	BITSTRING	1	OCRFLAGS	OUTPUT FLAGS
10	(A)	BITSTRING	1	OCRINDEX	PRINT INDEX
11	(B)	BITSTRING	1	OCRCOPY	COPY COUNT (MUST PRECEDE COPYG)
12	(C)	CHARACTER	8	OCRCOPYG	N/I PRINTER COPY GROUPS
20	(14)	CHARACTER	4	OCRFORMS	FORMS SPECIFICATION
24	(18)	CHARACTER	4	OCRFCB	FCB SPECIFICATION
28	(1C)	CHARACTER	4	OCRUCS	UCS SPECIFICATION
32	(20)	SIGNED	4	OCRRECNT	RECORD COUNT LIMIT
36	(24)	CHARACTER	4	OCRCHAR1	N/I PRINTER TRANS-TABLE 1
40	(28)	CHARACTER	4	OCRCHAR2	N/I PRINTER TRANS-TABLE 2
44	(2C)	CHARACTER	4	OCRCHAR3	N/I PRINTER TRANS-TABLE 3
48	(30)	CHARACTER	4	OCRCHAR4	N/I PRINTER TRANS-TABLE 4
52	(34)	SIGNED	4	OCRDEST1	DESTINATION 1
56	(38)	CHARACTER	8	OCRUSER1	DESTINATION 1 USERID/RMTID
56	(38)	X'C'	0	OCRUSDST	"*-OCRDEST1" LNGTH OF 1 OCR USERID/ DEST UNIT
64	(40)	SIGNED	4	OCRDEST2	DESTINATION 2
68	(44)	CHARACTER	8	OCRUSER2	DESTINATION 2 USERID/RMTID
76	(4C)	SIGNED	4	OCRDEST3	DESTINATION 3
80	(50)	CHARACTER	8	OCRUSER3	DESTINATION 3 USERID/RMTID
88	(58)	SIGNED	4	OCRDEST4	DESTINATION 4
92	(5C)	CHARACTER	8	OCRUSER4	DESTINATION 4 USERID/RMTID
92	(5C)	X'30'	0	OCRUDND	"*-OCRDEST1" END OF DEST/USER ID SECTION
100	(64)	CHARACTER	5	(0)	KEEP FLASH, FLASH CNT TOGETHER
100	(64)	CHARACTER	4	OCRFLASH	N/I PRINTER FLASH
104	(68)	BITSTRING	1	OCRFLSHC	N/I PRINTER # FLASH COPIES
105	(69)	BITSTRING	1	OCRCPTN	COMPACTION TABLE NUMBER
106	(6A)	SIGNED	2	OCRCKPTP	NO. OF LOGICAL PAGES/CKPT
108	(6C)	SIGNED	2	OCRCKPTL	NO. OF LINES/LOGICAL PAGE
110	(6E)	BITSTRING	1	OCRLINCT	LINECT
111	(6F)	BITSTRING	12		RESERVED
124	(7C)	SIGNED	4	OCREND(0)	END OF OUTPUT CONTROL RECORD
124	(7C)	X'7C'	0	OCRLENG	"*-OCR"
OCRFLAGS					
	1... ....			OCRBRSTN	"B'10000000'" N/I PRINTER BURST=NO FLAG
	.1... ....			OCRBRSTY	"B'01000000'" N/I PRINTER BURST=YES FLAG



Table 52. Structure OCR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		..1. ....		OCRLNCTF	"B'00100000'" LINECT SPECIFIED
		...1 ....		OCRFLAG3	"B'00010000'" RESERVED
		.... 1...		OCRFLAG4	"B'00001000'" RESERVED
		.... .1..		OCRFLAG5	"B'00000100'" RESERVED
		.... ..1.		OCRFLAG6	"B'00000010'" RESERVED
		.... ...1		OCRFLAG7	"B'00000001'" RESERVED

Table 53. Cross Reference for \$OCR

Name	Offset	Hex	Tag
OCR	0		
OCRBRSTN	7C		80
OCRBRSTY	7C		40
OCRCHAR1	24		
OCRCHAR2	28		
OCRCHAR3	2C		
OCRCHAR4	30		
OCRCKPTL	6C		
OCRCKPTP	6A		
OCRCODE	0		
OCRCOPY	B		
OCRCOPYG	C		
OCRCPTN	69		
OCRDEST1	34		
OCRDEST2	40		
OCRDEST3	4C		
OCRDEST4	58		
OCREND	7C		
OCRFCB	18		
OCRFLAGS	9		
OCRFLAG3	7C		10
OCRFLAG4	7C		8
OCRFLAG5	7C		4
OCRFLAG6	7C		2
OCRFLAG7	7C		1
OCRFLASH	64		
OCRFLSHC	68		
OCRFORMS	14		
OCRINDEX	A		
OCRLENG	7C		7C
OCRLINCT	6E		



Table 53. Cross Reference for \$OCR (continued)

Name	Offset	Hex Tag
OCRLNCTF	7C	20
OCRMODF	4	
OCRMODFT	8	
OCRRECNT	20	
OCRUCS	1C	
OCRUDND	5C	30
OCRUSDST	38	C
OCRUSER1	38	
OCRUSER2	44	
OCRUSER3	50	
OCRUSER4	5C	

## \$OCT information

### \$OCT programming interface information

\$OCT is a programming interface.

### \$OCT heading information

<b>Common name:</b>	Output Control Table
<b>Macro ID:</b>	\$OCT
<b>DSECT name:</b>	OCT
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	OCT Offset: OCTID-OCT Length: L'OCTID
<b>Storage attributes:</b>	Subpool: 7 for Main Task, 230 for User Environment Key: 1 Residency: The \$OCT is a JES2 spool resident control block. Virtual and real storage can be anywhere.
<b>Size:</b>	See OCTLENG for the length of the control block. The OCT is contained in a buffer of size \$BUFSIZE which is a field in \$HCT.
<b>Created by:</b>	Initially created by HASPRDR when a job encounters a /*OUTPUT card.
<b>Pointed to by:</b>	OCTOCT field of the \$OCT data area SJBOCT field of the \$SJB data area OCTOCTTR field of the \$OCT data area (addr on spool) JCTOCTTR field of the \$JCT data area (addr on spool) Various fields in the processor work areas



**Serialization:**

While a job is in execution, the OCT resides in the user address space, so that no other JES2 PCE will update the OCT. At other times, the JES2 dispatcher is used.

**Function:**

The OCT is used to hold data from the /\*OUTPUT control card until a PDDB is created into which the data is then moved.

## \$OCT mapping

Table 54. Structure OCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	OCT	HASP OUTPUT CONTROL TABLE DSECT
The following fields are defined over the buffer prefix in order to ensure that they are never written to SPOOL.					
0	(0)	X'40'	0	OCTOCT	"BUFMEMW1-BFPDSECT+OCT" Storage address of next OCT
End of buffer prefix fields					
0	(0)	BITSTRING	1	(0)	BUFFER CONTROL INFORMATION
0	(0)	X'68'	0	OCTSTART	"*" START OF DATA WRITTEN TO SPOOL
The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer. The following fields are defined: Eyecatcher - 4 bytes Job name - 8 bytes Job number - 4 bytes Job key - 4 bytes Dataset key - 4 bytes (or reserved if not applicable)					
104	(68)	CHARACTER	4	OCTID	Eyecatcher
108	(6C)	CHARACTER	8	OCTJNAME	Job name
116	(74)	SIGNED	4	OCTJBNUM	Job number
120	(78)	SIGNED	4	OCTJBKEY	Job key
124	(7C)	BITSTRING	4		Reserved
124	(7C)	X'18'	0	OCTSPLNG	"*-OCTID"
128	(80)	ADDRESS	2	OCTLENG	LENGTH OF OCT INCLUDING PREFIX
130	(82)	SIGNED	1	OCTVERS	OCT version:
130	(82)	X'0'	0	OCTVER0	"0" Pre-z/OS 1.12 (MTTRs)
130	(82)	X'C'	0	OCTVER12	"12" z/OS 1.12+ (MQTRs)
131	(83)	BITSTRING	1		RESERVED FOR FUTURE USE
OCTVER0 (Pre-z/OS 1.12) OCT format:					
132	(84)	BITSTRING	4	OCTTRACK_Z11	Track address (MTTR) of this OCT
136	(88)	BITSTRING	4	OCTOCTTR_Z11	Track address (MTTR) of next OCT
140	(8C)	SIGNED	4	OCTOCROF_Z11	Offset beyond last OCR in OCT
144	(90)	BITSTRING	4	OCTRSV1_Z11	Reserved for future use
OCTVER12 (z/OS 1.12+) OCT format:					
132	(84)	BITSTRING	6	OCTCURTK	Track address (MQTR) of this OCT



Table 54. Structure OCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
138	(8A)	BITSTRING	6	OCTNXTTK	Track address (MQTR) of next OCT
144	(90)	SIGNED	4	OCTOFOCR	Offset beyond last OCR in OCT
START OF OUTPUT CONTROL RECORDS (\$OCR <sub>s</sub> )					
148	(94)	BITSTRING	1	OCTOCR	START OF OUTPUT CONTROL RECORDS

Table 55. Cross Reference for \$OCT

Name	Offset	Hex	Tag
OCT	0		
OCTCURTK	84		
OCTID	68		
OCTJBKEY	78		
OCTJBNUM	74		
OCTJNAME	6C		
OCTLENG	80		
OCTNXTTK	8A		
OCTOCR	94		
OCTOCROF_Z11	8C		
OCTOCT	0		40
OCTOCTTR_Z11	88		
OCTOFOCR	90		
OCTRSV1_Z11	90		
OCTSPLNG	7C		18
OCTSTART	0		68
OCTTRACK_Z11	84		
OCTVERS	82		
OCTVER0	82		0
OCTVER12	82		C

## \$ODPARM information

### \$ODPARM programming interface information

\$ODPARM is a programming interface.

### \$ODPARM heading information

<b>Common name:</b>	Output Descriptor Parameter Block
<b>Macro ID:</b>	\$ODPARM
<b>DSECT name:</b>	ODPARM
<b>Owning component:</b>	JES2 (SC1BH)



**Eye-catcher ID:** 'ODP '  
Offset: ODPID-ODP  
Length: 4

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

**Size:** See ODPsize

**Created by:** SJF Services processor for each request that is passed to the Output Descriptor Modify Subtask processor.

**Pointed to by:** SFRODP field of the \$SFRB data area

**Serialization:** None required; HASPSJFR subtask assigns one ODPARM per subtask to process a request.

**Function:** This macro provides the mapping of the parameters needed by the Output Descriptor routine called by the generalized subtask in support of SWB Modify processing.

## \$ODPARM mapping

Table 56. Structure ODPARM

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ODPARM	
0	(0)	X'0'	0	ODPBGN	"*
0	(0)	CHARACTER	4	ODPID	Acronym set to 'ODP '
4	(4)	BITSTRING	1	ODPVER	Version number of ODPARM
4	(4)	X'1'	0	ODPV#	"1" Current version number of ODPARM
5	(5)	BITSTRING	1	ODPRSV1	Reserved
6	(6)	SIGNED	2	ODPRSV2	Reserved
8	(8)	ADDRESS	4	ODPWAVE	Address of WAVE
12	(C)	ADDRESS	4	ODPJ0EA	Address of JOE
Output descriptor subtask work area begins here Footprints for SWB Modify Subtask					
16	(10)	BITSTRING	1	ODPF00T	Footprint area - current
17	(11)	BITSTRING	1	ODPF00TP	Footprint area - previous
17	(11)	X'1'	0	ODPFSTR	"1" Footprint - Convert Dest
17	(11)	X'2'	0	ODPFCONV	"2" Footprint - Convert Dest
17	(11)	X'3'	0	ODPFSAF	"3" Footprint - SAF calls
17	(11)	X'4'	0	ODPFMGI	"4" Footprint - Merge init.
17	(11)	X'5'	0	ODPFDSP	"5" Footprint - Despool SWBITs
17	(11)	X'6'	0	ODPFMGS	"6" Footprint - \$Merge setup
17	(11)	X'7'	0	ODPFSJM	"7" Footprint - SJF/\$MERG
17	(11)	X'8'	0	ODPFSJS	"8" Footprint - SJF Split
17	(11)	X'9'	0	ODPFtus	"9" Footprint - Move TUs



Table 56. Structure ODPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
17	(11)	X'A'	0	ODPFWRI	"10" Footprint - Write init.
17	(11)	X'B'	0	ODPFIOT	"11" Footprint - IOT access
17	(11)	X'C'	0	ODPFMTR	"12" Footprint - Alloc MTTR
17	(11)	X'D'	0	ODPFSPL	"13" Footprint - Write SWBIT
17	(11)	X'E'	0	ODPFCLP	"14" Footprint - Merge cleanup
17	(11)	X'F'	0	ODPPREC	"15" Footprint - In recovery
Error Reason Codes from SWB Modify Subtask					
17	(11)	X'4'	0	ODPRSAF	"4" SAF call failure (\$SEAS)
17	(11)	X'8'	0	ODPRIOE	"8" I/O error on Spool
17	(11)	X'C'	0	ODPRSERV	"12" JES2 service rtn error
17	(11)	X'10'	0	ODPRDEST	"16" Dest processing error
17	(11)	X'14'	0	ODPRMERG	"20" Error during Merge service
17	(11)	X'18'	0	ODPRSPLT	"24" Error during Split service
17	(11)	X'1C'	0	ODPRABN	"28" Subtask abended
17	(11)	X'20'	0	ODPRIOT	"32" IOT is not valid
17	(11)	X'24'	0	ODPRBADP	"36" Bad parm. or control block
17	(11)	X'8'	0	ODPERR8	"8" Subtask return code
18	(12)	BITSTRING	1	ODPFLG1	Flag
		.... ..1		ODPNOBAS	"B'00000001'" No base SWBITs in JOE
		.... ..1.		ODPERBAS	"B'00000010'" Base Erase Tus exist
		.... ..1..		ODPNOOVR	"B'00000100'" No override SWBTU present
		.... 1...		ODPNOMRG	"B'00001000'" No \$SWBMERG required
		...1 ....		ODPABND	"B'00010000'" Recovery routine entered
		..1. ....		ODPRCUR	"B'00100000'" Abend recursion flag
19	(13)	BITSTRING	1	ODPFLG2	Processing status flag (used by both JES2&subtsk)
The following two bits are mutually exclusive. If neither is on, the current destination is kept as is.					
		1... ....		ODP2NOIP	"B'10000000'" Dest is NOT in IP format
		.1.. ....		ODP2IPAD	"B'01000000'" Dest is in IP format
		..1. ....		ODP2ERAS	"B'00100000'" Dest is to be erased
20	(14)	SIGNED	2	ODPDATLN	Size of SWBIT Data area
22	(16)	SIGNED	2	ODPRSVW1	Reserved for subtask use
24	(18)	DBL WORD	8	(0)	Alignment
24	(18)	CHARACTER	20	ODPDSAFW	20 byte DEST/SAF work area
44	(2C)	SIGNED	4	ODPWRK1	Work area for subtask
48	(30)	SIGNED	4	ODPWRK2	Work area for subtask
52	(34)	ADDRESS	4	ODPSERV	MERGE/SPLIT parm area
56	(38)	ADDRESS	4	ODPSERVL	MERGE/SPLIT parm length
60	(3C)	ADDRESS	4	ODPMTUAD	\$MERGE SWBTU output addr
64	(40)	ADDRESS	4	ODPFINB	First input SWBIT buffer
68	(44)	ADDRESS	4	ODPFIRB	First output SWBIT buffer



Table 56. Structure ODPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
72	(48)	ADDRESS	4	ODPCURB	Current SWBIT buffer addr
76	(4C)	ADDRESS	4	ODPPREB	Previous SWBIT buffer addr
80	(50)	ADDRESS	4	ODPERAD	Cumulative erase TU addr
84	(54)	ADDRESS	4	ODPTUAD	address of merged SWBTU
88	(58)	SIGNED	2	ODPERCLN	Cumulative erase TU length
90	(5A)	SIGNED	2	ODPTUCLN	Cumulative SWBTU length
92	(5C)	SIGNED	2	ODPTUNUM	Number of base SWBTUs
94	(5E)	SIGNED	2	ODPRSVH1	Reserved for devel.
96	(60)	ADDRESS	4	ODPSJIO	Address of SJIOB
100	(64)	ADDRESS	4	ODPIOTB	Addr IOT buffers
104	(68)	SIGNED	4	ODPSJRC	SJF Service return code
108	(6C)	SIGNED	4	ODPSJRS	SJF Service reason code
112	(70)	ADDRESS	4	ODPPCE	Address of PCE
116	(74)	SIGNED	4	ODPRSVS1	Reserved for service
120	(78)	DBL WORD	8	(0)	Alignment
120	(78)	ADDRESS	4	ODPJOAA	Address of UPDATE MODE JOA.
124	(7C)	CHARACTER	76	ODPCHJOE	Char-JOE area
200	(C8)	CHARACTER	8	ODPJUSER	Input - JOEUSER from characteristic JOE Output - Userid included in modify SWBTU or '<IP>' if new dest is in IP-format.
208	(D0)	BITSTRING	4	ODPROUT	Route code from DEST mod TU
212	(D4)	CHARACTER	84	ODPTKWRK	Security token work area
296	(128)	DBL WORD	8	(0)	Alignment
296	(128)	CHARACTER	96	ODPJQE	Work-JQE area
392	(188)	BITSTRING	6	ODPJCTQT	JCT MQTR address
398	(18E)	BITSTRING	2		Reserved
400	(190)	CHARACTER	56	ODPJSPLS	JESSPOOL logstring
456	(1C8)	DBL WORD	8	(0)	End on a Dblword boundary
456	(1C8)	X'1C8'	0	ODPSIZE	"*-ODPBGN" Size of parameter area

Table 57. Cross Reference for \$ODPARM

Name	Offset	Hex Tag
ODPABND	12	10
ODPARM	0	
ODPBGN	0	0
ODPCHJOE	7C	
ODPCURB	48	
ODPDATLN	14	
ODPDSAFW	18	
ODPERAD	50	
ODPERBAS	12	2
ODPERCLN	58	
ODPERR8	11	8



Table 57. Cross Reference for \$ODPARM (continued)

Name	Offset	Hex Tag
ODPFCLP	11	E
ODPFCNV	11	2
ODPFDSP	11	5
ODPFINB	40	
ODPFIOT	11	B
ODPFIRB	44	
ODPFLG1	12	
ODPFLG2	13	
ODPFMGI	11	4
ODPFMGS	11	6
ODPFMTR	11	C
ODPF00T	10	
ODPF00TP	11	
ODPFSAF	11	3
ODPFSJM	11	7
ODPFSJS	11	8
ODPFSPL	11	D
ODPFSTR	11	1
ODPFTUS	11	9
ODPFWRI	11	A
ODPID	0	
ODPIOTB	64	
ODPJCTQT	188	
ODPJ0AA	78	
ODPJ0EA	C	
ODPJQE	128	
ODPJSPLS	190	
ODPJUSER	C8	
ODPMTUAD	3C	
ODPNOBAS	12	1
ODPNOMRG	12	8
ODPNOOVR	12	4
ODPPCE	70	
ODPPREB	4C	
ODPPREC	11	F
ODPRABN	11	1C
ODPRBADP	11	24
ODPRCUR	12	20
ODPRDEST	11	10



Table 57. Cross Reference for \$ODPARM (continued)

Name	Offset	Hex Tag
ODPRI0E	11	8
ODPRI0T	11	20
ODPRMERG	11	14
ODPROUT	D0	
ODPRSAF	11	4
ODPRSERV	11	C
ODPRSPLT	11	18
ODPRSVH1	5E	
ODPRSVS1	74	
ODPRSVW1	16	
ODPRSV1	5	
ODPRSV2	6	
ODPSERVL	38	
ODPSERVP	34	
ODPSIZE	1C8	1C8
ODPSJIO	60	
ODPSJRC	68	
ODPSJRS	6C	
ODPTKWRK	D4	
ODPTUAD	54	
ODPTUCLN	5A	
ODPTUNUM	5C	
ODPV#	4	1
ODPVER	4	
ODPWAVE	8	
ODPWRK1	2C	
ODPWRK2	30	
ODP2ERAS	13	20
ODP2IPAD	13	40
ODP2NOIP	13	80

## \$OPAWORK information

### \$OPAWORK heading information

<b>Common name:</b>	JES2 Output Priority Aging PCE Work Area
<b>Macro ID:</b>	\$OPAWORK
<b>DSECT name:</b>	PCE (\$OPAWORK is part of the PCE DSECT)
<b>Owning component:</b>	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 OPAPCEWS 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 \$PRYOPCE 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 Output Priority Aging Processor and by its support routines and exits. \$OPAWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$OPAWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEOPAID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

## \$OPAWORK mapping

Table 58. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	BITSTRING	12	OPATQE	HASP Timer Queue Element
348	(15C)	SIGNED	4		Reserved for future use
352	(160)	DBL WORD	8	(0)	Force double-word alignment
352	(160)	X'10'	0	OPAPCEWS	"*-PCEWORK" Length of work area

## \$OUTWORK information

### \$OUTWORK programming interface information

\$OUTWORK is a programming interface.

### \$OUTWORK heading information

**Common name:** JES2 Output PCE Work Area

**Macro ID:** \$OUTWORK

**DSECT name:** PCE (\$OUTWORK 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 OUTWKSIZ 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 \$OUTPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first Output 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 Output Processor and by its support routines and exits. \$OUTWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$OUTWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEOUTID in the second byte of field PCEID.  
This PCE is not device related. Field PCEDCT is zero.

## \$OUTWORK mapping

Table 59. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	SIGNED	4	OUTIOTBF	ADDRESS OF IOT BUFFER CHAIN
340	(154)	SIGNED	4	OUTJCTBF	ADDRESS OF JCT BUFFER
344	(158)	SIGNED	4	OUTPDDB	RESTART PDDB POINTER
348	(15C)	SIGNED	4	OUTIMEON(2)	OUTPUT PROCESSOR TIME/DATE
356	(164)	ADDRESS	4	OUTJOAA	Addr of buffer containing PROTOTYPE JOA
360	(168)	SIGNED	4	OUTJOAL	Length of buffer containing PROTOTYPE JOA
364	(16C)	SIGNED	4	OUTDBEND	1ST FREE PDDB SLOT IN IOT
368	(170)	SIGNED	4	OUTIOT	RESTART IOT ADDRESS
372	(174)	SIGNED	4	OUTIOTM	Number of IOTs in memory
376	(178)	SIGNED	4	OUTJBKEY	JOB KEY FROM JCTJBKEY
380	(17C)	BITSTRING	1	OUTJCOPY	JOB LEVEL COPY COUNT FROM JCT
381	(17D)	BITSTRING	2		RESERVED
383	(17F)	BITSTRING	1	OUTFLAGS	OUTPUT PROCESSOR FLAGS
384	(180)	SIGNED	4	OUTGGTOK	GENERIC GROUPING TOKEN



Table 59. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
388	(184)	SIGNED	4	OUTEXPRM(0)	EXIT 16 PARAMETER LIST
388	(184)	SIGNED	4	OUTMADD	EXIT MESSAGE ADDRESS
392	(188)	SIGNED	4	OUTMPRM	EXIT PARM LIST ADDRESS
396	(18C)	SIGNED	4	OUTMJCT	ADDRESS OF JCT
400	(190)	ADDRESS	4	OUTDSSCB	ADDR OF DSSCB WORK AREA
404	(194)	CHARACTER	32	OUTGRPPM	OUTPUT GROUPING PARM LIST
436	(1B4)	ADDRESS	4	OUTQPARM	NODE TABLE ADDRESS
440	(1B8)	ADDRESS	4		CONTROL BLOCK ADDRESS
444	(1BC)	ADDRESS	4		ADDRESS OF JQE
448	(1C0)	ADDRESS	1		QUEUE TYPE SPECIFIED
449	(1C1)	ADDRESS	1		WORK SELECTION TYPE FLAG
450	(1C2)	ADDRESS	1		Response byte flags
451	(1C3)	ADDRESS	1		Reserved
451	(1C3)	X'1B4'	0	OUTPLST	"OUTQPARM,*-OUTQPARM" QGET PARAMETER LIST STORAGE
452	(1C4)	CHARACTER	36	OUTNOTPL	Parm list storage for \$HNOTIFY call from DSAL
488	(1E8)	DBL WORD	8	(0)	
488	(1E8)	DBL WORD	8	OUTPRTIM	Time since PRIV PCE last used in shortage context. Only valid if PCEFLGCS -> PCEPRIVI
488	(1E8)	X'12C'	0	OUTPWAIT	"300" Number of seconds PRIV PCE should wait before going away. During this time no JOE shortage was encountered.
496	(1F0)	BITSTRING	80	OUTCTKNO	Old CTOKEN work area
576	(240)	DBL WORD	8	(0)	
576	(240)	BITSTRING	56	OUTX40PL	Exit 40 XPL parmlist
632	(278)	DBL WORD	8	(0)	
--BLDM \$BLDMSG MF=L \$BLDMSG list form					
632	(278)	SIGNED	4	OUTBLDM(0)	Control block ID
636	(27C)	BITSTRING	4		Console ID
640	(280)	ADDRESS	4		Address of the CART
644	(284)	ADDRESS	4		Pointer for JOBID
648	(288)	ADDRESS	4		Control block address
652	(28C)	ADDRESS	4		Display routine address
656	(290)	ADDRESS	4	(6)	6 word work area
680	(2A8)	ADDRESS	4		Caller's R11 value
684	(2AC)	BITSTRING	2		ROUT code for Message
686	(2AE)	BITSTRING	2		Not used
688	(2B0)	CHARACTER	4		Message ID
692	(2B4)	CHARACTER	1		Separator character
693	(2B5)	ADDRESS	1		Flag byte 1
694	(2B6)	ADDRESS	1		'DISPER'
695	(2B7)	ADDRESS	1		Flag byte 2
696	(2B8)	ADDRESS	1		Flag byte 3
697	(2B9)	ADDRESS	1		Severity of message



Table 59. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
698	(2BA)	CHARACTER	8		Symbolic name of dest.
706	(2C2)	BITSTRING	14		Not used
720	(2D0)	ADDRESS	4	(0)	Ensure multiple of 4
720	(2D0)	ADDRESS	2	(0)	
Resource management entry for JOEs mapped by LRMENTRY in \$RESGRP.					
720	(2D0)	DBL WORD	8	(0)	
720	(2D0)	BITSTRING	32	OUTJORME	JOE rsrc management entry
752	(2F0)	ADDRESS	8	OUTPIWP	Ptr to policy work area
760	(2F8)	DBL WORD	8	(0)	
760	(2F8)	X'1A8'	0	OUTWKSIZ	"*-PCEWORK" LENGTH OF HOPE PCE WORK AREA
OUTFLAGS					
	1... ....			OUTSTATS	"B'10000000'" JOB Statistics created
	.... 1...			OUTJOBBER	"B'00001000'" Job finished abnormally

Table 60. Cross Reference for \$OUTWORK

Name	Offset	Hex Tag
OUTBLDM	278	C2D3C440
OUTCTKNO	1F0	
OUTDBEND	16C	
OUTDSSCB	190	
OUTEXPRM	184	
OUTFLAGS	17F	
OUTGGTOK	180	
OUTGRPPM	194	
OUTIMEON	15C	
OUTIOT	170	
OUTIOTBF	150	
OUTIOTM	174	
OUTJBKEY	178	
OUTJCOPY	17C	
OUTJCTBF	154	
OUTJOAA	164	
OUTJOAL	168	
OUTJOBBER	2F8	8
OUTJORME	2D0	
OUTMADD	184	
OUTMJCT	18C	
OUTMPRM	188	



Table 60. Cross Reference for \$OUTWORK (continued)

Name	Offset	Hex Tag
OUTNOTPL	1C4	
OUTPDDDB	158	
OUTPIWP	2F0	
OUTPLST	1C3	1B4
OUTPRTIM	1E8	0
OUTPWAIT	1E8	12C
OUTQPARM	1B4	
OUTSTATS	2F8	80
OUTWKSIZ	2F8	1A8
OUTX40PL	240	
PCE	0	

## \$PAD information

### \$PAD heading information

<b>Common name:</b>	Data set allocation descriptor
<b>Macro ID:</b>	\$PAD
<b>DSECT name:</b>	PAD
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	PAD Offset: PADID Length: L'PADID
<b>Storage attributes:</b>	Subpool: N/A Key: 1 Residency: Located in the PAD JES2 \$CPOOL in the PSO data space.
<b>Size:</b>	See PADLEN
<b>Created by:</b>	HASPSXIT for the PROCLIB, SUBMITLIB, and POLICYLIB command and init statements
<b>Pointed to by:</b>	CCTPAD field of the HCCT data area SBTDDLIB filed of the SBMT data area \$POLCYDD filed of the HCT data area PADPAD field of the PAD data area PADALT field of the PAD data area PADDAD field of the PAD data area
<b>Serialization:</b>	None required



**Function:**

The PAD is used to manage DD concatenations used by JES2. There are 3 types of PADs currently:

- PROCLIB data set PADS (the traditional use)
- SUBMITLIB data set PADs used by the \$SUBMIT command
- POLICYLIB data set PADs used to read policies

Logic that allocates and manages data set concatenation is the same for all types of DDs.

**\$PAD mapping**

Table 61. Structure PAD

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PAD	, PROCLIB allocation DSECT
0	(0)	CHARACTER	4	PADID	Eyecatcher
4	(4)	SIGNED	4	PADSIZE	PAD length
8	(8)	CHARACTER	8	PADNAME	Logical DD name
16	(10)	CHARACTER	8	PADALCDD	Allocated DD name
24	(18)	DBL WORD	8	PADCRTIM	PAD creation time
32	(20)	DBL WORD	8	PADDLTIM	Time of last PAD deletion attempt
40	(28)	ADDRESS	8	PADCDCCT	Related CDCT address
48	(30)	CHARACTER	10	PADCDCCTN	and CDCT name
58	(3A)	BITSTRING	1	PADFLAG1	General flag byte
		1... ..		PAD1DEL	"B'10000000'" PAD deleted
		.1.. ..		PAD1UNC	"B'01000000'" Unconditional allocation
		..1. ....		PAD1COND	"B'00100000'" Conditional allocation
		...1 ....		PAD1UNAP	"B'00010000'" Unallocation in progress
		.... 1...		PAD1STAT	"B'00001000'" PAD represents a static allocation (from PROC)
		.... .1..		PAD1CIFA	"B'00000100'" A C/I addr space failed to allocate PROCLIB
		.... ..1.		PAD1UPTH	"B'00000010'" PAD contains a PATH DD
		.... ...1		PAD1NOMV	"B'00000001'" A path was not allocated because OMVS not active
59	(3B)	BITSTRING	1	PADFLAG2	General flag byte
		1... ..		PAD2ALCE	"B'10000000'" Allocation error
		.1.. ..		PAD2OPNE	"B'01000000'" OPEN error
60	(3C)	BITSTRING	1	PADTYPE	PAD type (1-9)
60	(3C)	X'1'	0	PADTPROC	"1" PROCLIB type PAD
60	(3C)	X'2'	0	PADTSBMT	"2" SUBMITLIB type PAD
60	(3C)	X'3'	0	PADTPLCY	"3" POLICYLIB type PAD
64	(40)	ADDRESS	4	PADPAD	PAD chain pointer
68	(44)	ADDRESS	4	PADALT	Alternate PAD chain
72	(48)	ADDRESS	4	PADDAD	Owning (main) pad
76	(4C)	SIGNED	4	PADUSE	PAD use count
80	(50)	SIGNED	4	PADDSNLW	Low data set subscript (always 1)
84	(54)	SIGNED	4	PADDSNCT	Data set count
88	(58)	BITSTRING	12		Reserved
104	(68)	DBL WORD	8	PADDSET(0)	Data set specifications
104	(68)	BITSTRING	34680	(255)	Max data set specifications



Table 61. Structure PAD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
34784	(87E0)	DBL WORD	8	PADCIALC(0)	C/I address space allocs
34784	(87E0)	BITSTRING	0	(0)	Max C/I alloc areas
34984	(88A8)	DBL WORD	8	(0)	Ensure alignment
34984	(88A8)	X'88A8'	0	PADLEN	"*-PAD" Maximum PAD length

Table 62. Structure PADE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PADE	, PAD data set entry
0	(0)	CHARACTER	44	PADEDSN	Data set name
44	(2C)	CHARACTER	8	PADEUNIT	Data set unit
52	(34)	CHARACTER	6	PADEVOL	Data set VOLSER
58	(3A)	CHARACTER	44	PADEXDSN	Extracted DSN
102	(66)	CHARACTER	6	PADEXVOL	Extracted VOLSER
0	(0)	CHARACTER	128	PADEPATH	Path name for DD
128	(80)	BITSTRING	1	PADEFLG1	Flag byte
		1... ....		PADE1ALF	"B'10000000'" Data set not allocated (failed)
		.1.. ....		PADE1JFR	"B'01000000'" JFCB read failed for DS
		..1. ....		PADE1PTH	"B'00100000'" Path name was specified
		...1 ....		PADE1XVS	"B'00010000'" VOLSER was extracted from JFCB (vs specified)
		.... 1...		PADE1PDE	"B'00001000'" Data set is a PDSE
		.... .1..		PADE1OMV	"B'00000100'" PATH= needs OMVS
		.... ..1.		PADE1OPE	"B'00000010'" OPEN error encountered
		.... ...1		PADE1PTR	"B'00000001'" Path value truncated
129	(81)	BITSTRING	1	PADERCFM	Record format (RECFM)

```

JFCUND EQU X'C0' U - Undefined
JFCFIX EQU X'80' F - Fixed
JFCVAR EQU X'40' V - Variable
JFCVARD EQU X'20' D - Variable (for
                                USASI/USASCII)
JFCRFO EQU X'20' T - Track overflow
JFCRFB EQU X'10' B - BLOCKED - (may not
                                occur with undefined)
JFCRFS EQU X'08' S - For fixed length record
                                format, standard
                                blocks. No truncated
                                blocks or unfilled
                                tracks are embedded in
                                the data set.
                                For variable length
                                record format, spanned
                                records.
JFCASA EQU X'04' A - American national
                                standard (ASA) control
                                character (IOS/ANSI)
JFCMAC EQU X'02' M - Machine code control
                                character

```

130	(82)	SIGNED	2	PADELRCL	Record length (LRECL)
132	(84)	SIGNED	2	PADEBLKS	Block size (BLKSIZE)
134	(86)	BITSTRING	2		Reserved
136	(88)	SIGNED	4	(0)	Align
136	(88)	X'88'	0	PADELEN	"*-PADE" Length of data set entry



Table 63. Structure PADA

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PADA	, PAD data set entry
0	(0)	ADDRESS	4	PADACICB	Owning CICB address (Zero if not in use)
4	(4)	BITSTRING	1	PADAFLG1	Flag byte (set by AS)
		1... ....		PADA1ALC	"B'10000000'" DD name is allocated
		.1... ....		PADA1ALF	"B'01000000'" Allocation has failed
5	(5)	BITSTRING	3		Reserved
8	(8)	DBL WORD	8	(0)	Align
8	(8)	X'8'	0	PADALEN	"*-PADA" Length of data set entry

Table 64. Cross Reference for \$PAD

Name	Offset	Hex Tag
PAD	0	
PADA	0	
PADACICB	0	
PADAFLG1	4	
PADALCDD	10	
PADALEN	8	8
PADALT	44	
PADA1ALC	4	80
PADA1ALF	4	40
PADCDCCT	28	
PADCDCCTN	30	
PADCIALC	87E0	
PADCRTIM	18	
PADDAD	48	
PADDLTIM	20	
PADDSET	68	
PADDSNCT	54	
PADDSNLW	50	
PADE	0	
PADEBLKS	84	
PAEDSN	0	
PADEFLG1	80	
PADELEN	88	88
PADELRCL	82	
PADEPATH	0	
PADERCFM	81	
PADEUNIT	2C	
PADEVOL	34	
PADEXDSN	3A	



Table 64. Cross Reference for \$PAD (continued)

Name	Offset	Hex Tag
PADEXVOL	66	
PADE1ALF	80	80
PADE1JFR	80	40
PADE1OMV	80	4
PADE1OPE	80	2
PADE1PDE	80	8
PADE1PTH	80	20
PADE1PTR	80	1
PADE1XVS	80	10
PADFLAG1	3A	
PADFLAG2	3B	
PADID	0	D7C1C440
PADLEN	88A8	88A8
PADNAME	8	
PADPAD	40	
PADSIZE	4	
PADTPLCY	3C	3
PADTPROC	3C	1
PADTSBMT	3C	2
PADTYPE	3C	
PADUSE	4C	
PAD1CIFA	3A	4
PAD1COND	3A	20
PAD1DEL	3A	80
PAD1NOMV	3A	1
PAD1STAT	3A	8
PAD1UNAP	3A	10
PAD1UNC	3A	40
PAD1UPTH	3A	2
PAD2ALCE	3B	80
PAD2OPNE	3B	40

## \$PADDR information

### \$PADDR heading information

<b>Common name:</b>	Private Storage Routine Address Table/DSECT
<b>Macro ID:</b>	\$PADDR
<b>DSECT name:</b>	PADDR



<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'PADR' Offset: PADDRID-PADDR Length: 4
<b>Storage attributes:</b>	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.
<b>Size:</b>	See PADDRLEN
<b>Created by:</b>	The \$PADDR is created by assembly of the HASPNUC module in the HASJES20 load module.
<b>Pointed to by:</b>	\$PADDR field of the \$HCT data area
<b>Serialization:</b>	Read only, except for JES2 initialization processing for PC routines
<b>Function:</b>	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 mapping

Table 65. Structure PADDR

Offset Dec	Offset Hex	Type	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
Module HASCOFST entries, listed alphabetically (for the copy of HASCOFST that is within HASJES20)					
8	(8)	ADDRESS	4	PADDR@OC0OFFST	"V(OC0OFFST)" Offset table for 0 C 0 code (data only, not \$CALLable) 0 C 0 code cannot use this PADDR field, as the PADDR is not frozen.
Entry addresses for \$EXTP services (R14 is used for service options,)					
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



Table 65. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	ADDRESS	4	P@HASPTCPA	"V(HASPTCPA)" Entry to TCP \$EXTP routines
28	(1C)	ADDRESS	4	P@HASPXFRA	"V(HASPFRA)" Entry to XFR \$EXTP routines
Entry addresses for Line manager scan routines					
32	(20)	ADDRESS	4	P@HASPBPPO	"V(HASBPPO)" BSC Buffer channel end
36	(24)	ADDRESS	4	P@HASPACT	"V(HASPBACT)" BSC Active line scan
40	(28)	ADDRESS	4	P@HASPBUPT	"V(HASPBUNT)" BSC Inactive line scan
44	(2C)	ADDRESS	4	P@HASPBSLN	"V(HASPBSLN)" BSC Secondary started line scan for SWEL processing
48	(30)	ADDRESS	4	P@HASPSPRO	"V(HASPSPRO)" SNA RPL Completion
52	(34)	ADDRESS	4	P@HASPSLOG	"V(HASPSLOG)" SNA Active logon scan
56	(38)	ADDRESS	4	P@HASPSLNE	"V(HASPSLNE)" SNA Active line scan
60	(3C)	ADDRESS	4	P@HASPSIDL	"V(HASPSIDL)" SNA Idle line scan
64	(40)	ADDRESS	4	P@HASPSUNT	"V(HASPSUNT)" SNA Inactive line scan
68	(44)	ADDRESS	4	P@HASPSACB	"V(HASPSACB)" SNA ACB completion scan
72	(48)	ADDRESS	4	P@HASPSICE	"V(HASPSICE)" SNA ICE scan
76	(4C)	ADDRESS	4	P@HASPSRAT	"V(HASPSRAT)" SNA RAT Autologon scan
80	(50)	ADDRESS	4	P@HASPSAL	"V(HASPSAL)" Sna Secondary started line scan for SWEL processing
84	(54)	ADDRESS	4	P@HASPTPRO	"V(HASPTPRO)" TCP/IP buffers queued to main task
88	(58)	ADDRESS	4	P@HASPTACT	"V(HASPTACT)" TCP/IP Active line scan
92	(5C)	ADDRESS	4	P@HASPTIDL	"V(HASPTIDL)" TCP/IP Idle line scan
96	(60)	ADDRESS	4	P@HASPTUNT	"V(HASPTUNT)" TCP/IP Inactive unit scan
100	(64)	ADDRESS	4	P@HASPTASV	"V(HASPTASV)" TCP/IP Active server scan
104	(68)	ADDRESS	4	P@HASPTSSV	"V(HASPTSSV)" TCP/IP Starting server scan
108	(6C)	ADDRESS	4		Reserved
112	(70)	ADDRESS	4		Reserved
116	(74)	ADDRESS	4		Reserved
120	(78)	ADDRESS	4		Reserved
124	(7C)	ADDRESS	4	P@MLMVFY	"V(MLMVFY)" MLLM Verification code
Module HASPARMO routines listed alphabetically					
128	(80)	ADDRESS	4	P@ARODREG	"V(ARODREG)" Deregister job
132	(84)	ADDRESS	4	P@AROQRYA	"V(AROQRYA)" Query registration
Module HASPBSC routines listed alphabetically					
136	(88)	ADDRESS	4	P@MPURIO	"V(MPURIO)" PURGE I/O on line
Module HASPCDYN routines listed alphabetically					
140	(8C)	ADDRESS	4	P@\$CDCTDYN	"V(\$CDCTDYN)" Common DCT CREATE/SYNCH
144	(90)	ADDRESS	4	P@\$CNITNOT	"V(\$CNITNOT)" Common NIT broadcast



Table 65. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Module HASPCFAL routines listed alphabetically					
148	(94)	ADDRESS	4	P@CFALOC	"V(CFALOC)" CF Allocate a structure
Module HASPCFBF routines listed alphabetically					
152	(98)	ADDRESS	4	P@CFBLDLST	"V(CFBLDLST)" CF Build list for writing
Module HASPCFDE routines listed alphabetically					
156	(9C)	ADDRESS	4	P@CFDELETE	"V(CFDELETE)" CF Delete all elements
Module HASPCFE routines listed alphabetically					
160	(A0)	ADDRESS	4	P@CFCOMP	"V(CFCOMP)" CF Complete Exit
164	(A4)	ADDRESS	4	P@CFEVEN	"V(CFEVENT)" CF Event Exit
168	(A8)	ADDRESS	4	P@CFNOTIFY	"V(CFNOTIFY)" CF Notify Exit
Module HASPCFFC routines listed alphabetically					
172	(AC)	ADDRESS	4	P@CFFCOMP	"V(CFFCOMP)" CF Force completion
Module HASPCFLE routines listed alphabetically					
176	(B0)	ADDRESS	4	P@CFRDLEC	"V(CFRDLEC)" CF Read the LECs
Module HASPCFMT routines listed alphabetically					
180	(B4)	ADDRESS	4	P@CFFORMAT	"V(CFFORMAT)" CF Format
Module HASPCFQL routines listed alphabetically					
184	(B8)	ADDRESS	4	P@CFQLOCK	"V(CFQLOCK)" CF Query Lock holder
Module HASPCFQU routines listed alphabetically					
188	(BC)	ADDRESS	4	P@CFQUERY	"V(CFQUERY)" CF Query connections to str
Module HASPCFRD routines listed alphabetically					
192	(C0)	ADDRESS	4	P@CFRDATA	"V(CFRDATA)" CF Read data
196	(C4)	ADDRESS	4	P@CFRDONE	"V(CFRDONE)" Read one track 1 record
Module HASPCFRE routines listed alphabetically					
200	(C8)	ADDRESS	4	P@CFREL	"V(CFREL)" CF Release structure lock
204	(CC)	ADDRESS	4	P@\$CFTRACE	"V(\$CFTRACE)" CF Trace routine
Module HASPCFRL routines listed alphabetically					
208	(D0)	ADDRESS	4	P@CFRDLIST	"V(CFRDLIST)" CF Read a list of elements
Module HASPCFRS routines listed alphabetically					
212	(D4)	ADDRESS	4	P@CFRESV	"V(CFRESV)" CF Obtain structure lock



Table 65. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Module HASPCFR2 routines listed alphabetically					
216	(D8)	ADDRESS	4	P@CFREAD2	"V(CFREAD2)" CF Read2
220	(DC)	ADDRESS	4	P@CFPURGE	"V(CFPURGE)" CF Purge processing
Module HASPCFSI routines listed alphabetically					
224	(E0)	ADDRESS	4	P@CFSTRTIO	"V(CFSTRTIO)" CF Start I/O
Module HASPCFT1 routines listed alphabetically					
228	(E4)	ADDRESS	4	P@CFTRK1IO	"V(CFTRK1IO)" CF Track1 I/O
Module HASPCFUN routines listed alphabetically					
232	(E8)	ADDRESS	4	P@CFUNAL	"V(CFUNAL)" CF Unallocate a structure
Module HASPCFWP routines listed alphabetically					
236	(EC)	ADDRESS	4	P@CFWRINPL	"V(CFWRINPL)" CF Write in place
Module HASPCFWR routines listed alphabetically					
240	(F0)	ADDRESS	4	P@CFWRITE	"V(CFWRITE)" CF Write
Module HASPCKDA routines listed alphabetically					
244	(F4)	ADDRESS	4	P@KBLDCKB	"V(KBLDCKB)" Build/rebuild CKPT CKB area
MODULE HASPCKDS ROUTINES LISTED ALPHABETICALLY					
248	(F8)	ADDRESS	4	P@CKPTALOC	"V(CKPTALOC)" CHECKPOINT DYNAMIC ALLOCATE RTN
252	(FC)	ADDRESS	4	P@CKPTUNAL	"V(CKPTUNAL)" CHECKPOINT DATASET UNALLOCATE
256	(100)	ADDRESS	4	P@CKPTVSIZ	"V(CKPTVSIZ)" Verify new ckpt size
260	(104)	ADDRESS	4	P@CKPTXPND	"V(CKPTXPND)" Expand size of the CKPT
264	(108)	ADDRESS	4	P@KDIALOG	"V(KDIALOG)" CKPT RECOVERY DIALOG SERVICE
268	(10C)	ADDRESS	4	P@KRELEASE	"V(KRELEASE)" DEQ (RELEASE) A CKPT DS
272	(110)	ADDRESS	4	P@KRESERVE	"V(KRESERVE)" RESERVE A CKPT DATA SET
276	(114)	ADDRESS	4	P@KSETINFO	"V(KSETINFO)" Set CKPT info for SSIs
280	(118)	ADDRESS	4		Reserved for HASPCKDS use
284	(11C)	ADDRESS	4		Reserved for HASPCKDS use
MODULE HASPCKPT ROUTINES LISTED ALPHABETICALLY					
288	(120)	ADDRESS	4	P@\$BERTFIX	"V(\$BERTFIX)" BERT error detect/correct
292	(124)	ADDRESS	4	P@\$CKPTQUE	"V(\$CKPTQUE)" Queue work to CKPT
296	(128)	ADDRESS	4	P@\$DOGBERT	"V(\$DOGBERT)" BERT processing routine
300	(12C)	ADDRESS	4	P@\$CKTSRV	"V(\$CKTSRV)" CKPT tuning service
304	(130)	ADDRESS	4	P@BERTFMT	"V(BERTFMT)" Format the BERT CTENT
308	(134)	ADDRESS	4	P@BERTMAP	"V(BERTMAP)" Process/Build BERT map



Table 65. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
312	(138)	ADDRESS	4	P@KBUPDJQE	"V(KBUPDJQE)" Update JQE fields for BLOB
316	(13C)	ADDRESS	4	P@KBUPDTGS	"V(KBUPDTGS)" Update JQETGNBR JQE routine
320	(140)	ADDRESS	4	P@KCPYMSTR	"V(KCPYMSTR)" Copy base info to MASTER or MASTERI
324	(144)	ADDRESS	4	P@KFORMAT	"V(KFORMAT)" REFORMAT A CHECKPOINT DATASET
328	(148)	ADDRESS	4	P@KGETCHLG	"V(KGETCHLG)" Adjust change log size
332	(14C)	ADDRESS	4	P@KPROTECT	"V(KPROTECT)" Page (un)protect the CKPT
336	(150)	ADDRESS	4	P@KREAD2	"V(KREAD2)" PERFORM READ2 OF CKPT DATA SET
340	(154)	ADDRESS	4	P@KSETMSTR	"V(KSETMSTR)" Set master record pointers
344	(158)	ADDRESS	4	P@KTRK1IO	"V(KTRK1IO)" PERFORM I/O TO TRK1 OF CKPT DS
348	(15C)	ADDRESS	4	P@QWLMSVDF	"V(QWLMSVDF)" Get WLM service definition
352	(160)	ADDRESS	4		Reserved for HASPCKPT use
356	(164)	ADDRESS	4		Reserved for HASPCKPT use
Module HASPCKRR routines listed alphabetically					
360	(168)	ADDRESS	4	P@CKRRDONE	"V(CKRRDONE)" Complete MAS CKPT reconfig
364	(16C)	ADDRESS	4	P@CKRRINIT	"V(CKRRINIT)" Initialize and create \$CKM
368	(170)	ADDRESS	4	P@CKRRMASK	"V(CKRRMASK)" Build affinity mask to dump
372	(174)	ADDRESS	4	P@CKRRSTRT	"V(CKRRSTRT)" Start-up MAS CKPT reconfig
376	(178)	ADDRESS	4	P@CKRRSYNC	"V(CKRRSYNC)" Synchronize MAS reconfig
380	(17C)	ADDRESS	4		Reserved for HASPCKRR use
384	(180)	ADDRESS	4		Reserved for HASPCKRR use
388	(184)	ADDRESS	4		Reserved for HASPCKRR use
392	(188)	ADDRESS	4		Reserved for HASPCKRR use
MODULE HASPCKVR ROUTINES LISTED ALPHABETICALLY					
396	(18C)	ADDRESS	4	P@SHRLIVE	"V(SHRLIVE)" SHARE THE NEW LIVE CHECKPOINT
400	(190)	ADDRESS	4	P@UNSHRLIV	"V(UNSHRLIV)" UNSHARE THE LIVE CHECKPOINT
404	(194)	ADDRESS	4		Reserved
Module HASPCNVT routines listed alphabetically					
408	(198)	ADDRESS	4	P@PROCALOC	"V(PROCALOC)" Allocate PROCLIB data sets
MODULE HASPCOMM ROUTINES LISTED ALPHABETICALLY					
412	(19C)	ADDRESS	4	P@\$JCAN	"V(\$JCAN)" Job cancel routine
416	(1A0)	ADDRESS	4	P@CFPARSE	"V(CFPARSE)" Move and parse command



Table 65. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
420	(1A4)	ADDRESS	4	P@CJFLCMB	"V(CJFLCMB)" MVS cancel command in CMB
424	(1A8)	ADDRESS	4	P@COFCVE	"V(COFCVE)" ADDR CONVERT TO EBCDIC HALFWORD ROUTINE
428	(1AC)	ADDRESS	4	P@COFEDTR	"V(COFEDTR)" ADDR CONVERT TO EBCDIC FULLWORD ROUTINE
432	(1B0)	ADDRESS	4	P@COFJMSG	"V(COFJMSG)" ADDR JOB INFORMATION MESSAGE ROUTINE
436	(1B4)	ADDRESS	4	P@COFRTC	"V(COFRTC)" ADDR CONVERT TO EBCDIC ROUTE CODE ROUTINE
440	(1B8)	ADDRESS	4	P@COMBEWTO	"V(COMBEWTO)" Branch Entry WTO targeted to executing job
444	(1BC)	ADDRESS	4	P@COMFRELK	"V(COMFRELK)" Free command lock
448	(1C0)	ADDRESS	4	P@CSCANDSP	"V(CSCANDSP)" HASPCOMM \$SCAN DISPLAY ROUTINE, USABLE BY \$SCANS FROM EXIT 5
452	(1C4)	ADDRESS	4	P@CSMICMD	"V(CSMICMD)" HASPCOMM Single member image routine
456	(1C8)	ADDRESS	4	P@CWTO	"V(CWTO)" ADDR WRITE TO OPERATOR RTN
460	(1CC)	ADDRESS	4	P@CWTOT	"V(CWTOT)" ADDR WRITE TO OPERATOR ROUTINE (TRUNC)
464	(1D0)	ADDRESS	4	P@DILJCAN	"V(DILJCAN)" DILBERT'ed call to \$JCAN
468	(1D4)	ADDRESS	4	P@H607RSN	"V(H607RSN)" HASP607 reasons subroutine
Module HASPCON routines listed alphabetically					
472	(1D8)	ADDRESS	4	P@\$DOM	"V(\$DOM)" HASP DOM routine
476	(1DC)	ADDRESS	4	P@\$FRECMB	"V(\$FRECMB)" Free CMB routine
480	(1E0)	ADDRESS	4	P@\$GETCMBR	"V(\$GETCMBR)" Get CMB routine
484	(1E4)	ADDRESS	4	P@\$WTO	"V(\$WTO)" \$WTO routine
488	(1E8)	ADDRESS	4	P@\$WTOC	"V(\$WTOC)" \$WTO with CMB routine
492	(1EC)	ADDRESS	4	P@HASPWQUE	"V(HASPWQUE)" Addr of CMB queuing routine for callers that cannot \$WAIT
496	(1F0)	ADDRESS	4	P@HASPWQUW	"V(HASPWQUW)" Addr of CMB queuing routine for callers that can tolerate a \$WAIT
Module HASPCSV routines, listed alphabetically					
500	(1F4)	ADDRESS	4	P@\$MODCHK	"V(\$MODCHK)" Check/resolve-from modules
504	(1F8)	ADDRESS	4	P@\$MODELET	"V(\$MODELET)" Delete a load module
508	(1FC)	ADDRESS	4	P@\$MODLOAD	"V(\$MODLOAD)" Load a load module
512	(200)	ADDRESS	4	P@CSV\$DEL	"V(CSV\$DEL)" Invoke \$\$\$\$DEL routine
516	(204)	ADDRESS	4	P@CSV\$LOAD	"V(CSV\$LOAD)" Invoke \$\$\$\$LOAD routine
520	(208)	ADDRESS	4	P@LOCENTRY	"V(LOCENTRY)" Entry point locate routine
524	(20C)	ADDRESS	4	P@LOCLMOD	"V(LOCLMOD)" Locate load module by addr
528	(210)	ADDRESS	4	P@LOCMODMP	"V(LOCMODMP)" Locate MODMAP entry by addr
Module HASPDREP routines, listed alphabetically					
532	(214)	ADDRESS	4	P@\$DATAREP	"V(\$DATAREP)" Data repository service



Table 65. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
536	(218)	ADDRESS	4	P@DRXFRMAT	"V(DRXFRMAT)" Data index format routine
540	(21C)	ADDRESS	4	P@DRXREBLD	"V(DRXREBLD)" Data index rebuild service
544	(220)	ADDRESS	4	P@DRXVERIFY	"V(DRXVERIFY)" Data index verify service
MODULE HASPDYN ROUTINES LISTED ALPHABETICALLY - BASIC CONTROL BLOCK ADDITION/DELETION SERVICES					
548	(224)	ADDRESS	4	P@\$DCBDYN	"V(\$DCBDYN)" DYNAMIC DCB ATTACH/ DETACH SERVICE ROUTINE ADDRESS
552	(228)	ADDRESS	4	P@\$DCTDYN	"V(\$DCTDYN)" DYNAMIC DCT ATTACH/ DETACH SERVICE ROUTINE ADDRESS
556	(22C)	ADDRESS	4	P@\$DESTDYN	"V(\$DESTDYN)" DEST (RDT) DYNAMIC BUILD RTN
560	(230)	ADDRESS	4	P@\$DTEDYNA	"V(\$DTEDYNA)" \$DTEDYN ATTACH ROUTINE ADDRESS
564	(234)	ADDRESS	4	P@\$DTEDYND	"V(\$DTEDYND)" \$DTEDYN DETACH ROUTINE ADDRESS
568	(238)	ADDRESS	4	P@\$PCEDYDC	"V(\$PCEDYDC)" DYNAMIC PCE ATTACH/ DETACH SERVICE FOR A DCT CHAIN
572	(23C)	ADDRESS	4	P@\$PCEDYN	"V(\$PCEDYN)" DYNAMIC PCE ATTACH/ DETACH SERVICE ROUTINE ADDRESS
576	(240)	ADDRESS	4	P@PRTDFLT	"V(PRTDFLT)" Printer DCT default routine
MODULE HASPEVTL ROUTINES LISTED ALPHABETICALLY					
580	(244)	ADDRESS	4	P@\$ROLL	"V(\$ROLL)" Entry to create trace entry
584	(248)	ADDRESS	4	P@TRCDUMP	"V(TRCDUMP)" Entry to TRCDUMP routine
588	(24C)	ADDRESS	4	P@TRCPUT	"V(TRCPUT)" Entry to TRCPUT routine
592	(250)	ADDRESS	4	P@TRGETTB	"V(TRGETTB)" OBTAIN MORE ECSA TRACE TABLES
MODULE HASPEXT ROUTINES LISTED ALPHABETICALLY					
596	(254)	ADDRESS	4	P@DSNVERIFY	"V(DSNVERIFY)" Verify data set name
600	(258)	ADDRESS	4	P@HASPEXDS	"V(HASPEXDS)" Extend dataset
604	(25C)	ADDRESS	4	P@FXEBLD	"V(FXEBLD)" Call to FXEBuild-HASPEXT
MODULE HASPFSSP ROUTINES LISTED ALPHABETICALLY					
608	(260)	ADDRESS	4	P@DYNFSS	"V(DYNFSS)" DYNAMIC FSSCB FIND/ATTACH INTERNAL SERVICE ROUTINE (HASPFSPP)
Entries to HASP Output Process Executive (HASPPOPE)					
612	(264)	ADDRESS	4	P@OPGROUP	"V(OPGROUP)" Grouping routine
616	(268)	ADDRESS	4	P@OPMAILMG	"V(OPMAILMG)" Notify Routine
620	(26C)	ADDRESS	4	P@OPNULLCK	"V(OPNULLCK)" Null Data Set check
Module HASPIJS routines listed alphabetically					
624	(270)	ADDRESS	4	P@\$IJSSSVF	"V(\$IJSSSVF)" Init suitability formula
628	(274)	ADDRESS	4	P@\$IJSCSV	"V(\$IJSCSV)" Calc suitability value



Table 65. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
632	(278)	ADDRESS	4		Reserved
ENTRIES TO HASP JOB OUTPUT SERVICES (HASPJOS)					
636	(27C)	ADDRESS	4	P@\$\$ADD	"V(\$#ADD)" Entry to JOE add routine
640	(280)	ADDRESS	4	P@\$\$ALCHK	"V(\$#ALCHK)" Entry to CHK SPOOL Alloc.
644	(284)	ADDRESS	4	P@\$\$BLD	"V(\$#BLD)" Entry to JOE build routine
648	(288)	ADDRESS	4	P@\$\$BUSY	"V(\$#BUSY)" Entry to busy bit set rtne
652	(28C)	ADDRESS	4	P@\$\$CAN	"V(\$#CAN)" Entry to JOE cancel routine
656	(290)	ADDRESS	4	P@\$\$CHK	"V(\$#CHK)" Entry to CHK I/O routine
660	(294)	ADDRESS	4	P@\$\$DISPRO	"V(\$#DISPRO)" Entry to update disposition
664	(298)	ADDRESS	4	P@\$\$FORMAT	"V(\$#FORMAT)" Entry to format JOT
668	(29C)	ADDRESS	4	P@\$\$GET	"V(\$#GET)" Entry to JOE get routine
672	(2A0)	ADDRESS	4	P@\$\$GTNEWS	"V(\$#GTNEWS)" Entry to GET JESNEWS CB
676	(2A4)	ADDRESS	4	P@\$\$JOTBLD	"V(\$#JOTBLD)" Entry to format the JOT
680	(2A8)	ADDRESS	4	P@\$\$JOTCHK	"V(\$#JOTCHK)" Entry to verify/correct JOT
684	(2AC)	ADDRESS	4	P@\$\$JWEL	"V(\$#JWEL)" Entry to JWEL services
688	(2B0)	ADDRESS	4	P@\$\$MOD	"V(\$#MOD)" Entry to JOE modify routine
692	(2B4)	ADDRESS	4	P@\$\$NEWS	"V(\$#NEWS)" Entry to create JESNEWS DS
696	(2B8)	ADDRESS	4	P@\$\$POST	"V(\$#POST)" Entry to specific post rtne
700	(2BC)	ADDRESS	4	P@\$\$PUT	"V(\$#PUT)" Entry to JOE put routine
704	(2C0)	ADDRESS	4	P@\$\$RBDCHK	"V(\$#RBDCHK)" Entry to JOE rebuild/free check routine
708	(2C4)	ADDRESS	4	P@\$\$REM	"V(\$#REM)" Entry to JOE remove routine
712	(2C8)	ADDRESS	4	P@\$\$REP	"V(\$#REP)" Entry to JOE replace rtn
716	(2CC)	ADDRESS	4	P@\$\$RLNEWS	"V(\$#RLNEWS)" Entry to return JESNEWS CB
720	(2D0)	ADDRESS	4	P@\$\$TJEV	"V(\$#TJEV)" SAPI thread hold
724	(2D4)	ADDRESS	4	P@\$\$ZAPJOE	"V(\$#ZAPJOE)" Entry to ZAPJOB JOE rtn
728	(2D8)	ADDRESS	4	P@\$\$DOGJOE	"V(\$#DOGJOE)" Entry to DOGJOE service
732	(2DC)	ADDRESS	4	P@ADDTOINX	"V(ADDTOINX)" Add work JOE to PRM/ALT ind
736	(2E0)	ADDRESS	4	P@GTSCREEN	"V(GTSCREEN)" Entry to JOE screen subrtne
740	(2E4)	ADDRESS	4	P@GTSPPOOL	"V(GTSPPOOL)" Entry to chk spools avail
744	(2E8)	ADDRESS	4	P@JOECLUP	"V(JOECLUP)" JOE cleanup
748	(2EC)	ADDRESS	4	P@JOEPPSCR	"V(JOEPPSCR)" JOE post-screen subroutine
752	(2F0)	ADDRESS	4	P@JOEPSCRN	"V(JOEPSCRN)" JOE pre-screen subroutine
756	(2F4)	ADDRESS	4	P@JOESYNC	"V(JOESYNC)" JOE & JWEL time syncronize
760	(2F8)	ADDRESS	4	P@JOTFRECL	"V(JOTFRECL)" Clean up free JOEs



Table 65. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
764	(2FC)	ADDRESS	4	P@JOTVERIF	"V(JOTVERIF)" Entry to JOT verify rtns
768	(300)	ADDRESS	4	P@MNENF58	"V(MNENF58)" Entry to Main tsk ENF58 rtn
772	(304)	ADDRESS	4	P@RTNINDEX	"V(RTNINDEX)" Free index and free JOEs
776	(308)	ADDRESS	4	P@SAPIPOST	"V(SAPIPOST)" Entry to SAPIPOST
780	(30C)	ADDRESS	4	P@XCLDVPST	"V(XCLDVPST)" Post WSP for local devices
Entries to HASP Job Queue Services (HASPJQS)					
784	(310)	ADDRESS	4	P@\$CLASSIF	"V(\$CLASSIF)" Entry to WLM Classification
788	(314)	ADDRESS	4	P@\$CONAFFI	"V(\$CONAFFI)" Apply concurr-set affin chg
792	(318)	ADDRESS	4	P@\$DILBERT	"V(\$DILBERT)" Entry to \$DILBERT service
796	(31C)	ADDRESS	4	P@\$DOGDJB	"V(\$DOGDJB)" Entry to DJB processing
800	(320)	ADDRESS	4	P@\$DOGJQE	"V(\$DOGJQE)" Entry to artificial JQE srv
804	(324)	ADDRESS	4	P@\$FREJLOK	"V(\$FREJLOK)" Free job lock
808	(328)	ADDRESS	4	P@\$GETJLOK	"V(\$GETJLOK)" Get job lock
812	(32C)	ADDRESS	4	P@\$JQEMERG	"V(\$JQEMERG)" Merge JQA into JQE/JQX
816	(330)	ADDRESS	4	P@\$NIFYURL	"V(\$NIFYURL)" Send HTTP POST notification
820	(334)	ADDRESS	4	P@\$QACT	"V(\$QACT)" Indicate the JQE ACTIVE
824	(338)	ADDRESS	4	P@\$QADD	"V(\$QADD)" Entry to JQE add routine
828	(33C)	ADDRESS	4	P@\$QBUSY	"V(\$QBUSY)" Entry to busy bit set rtne
832	(340)	ADDRESS	4	P@\$QEXTVER	"V(\$QEXTVER)" Entry to verify JQE ext.
836	(344)	ADDRESS	4	P@\$QEXTFMT	"V(\$QEXTFMT)" Entry to format JQE ext.
840	(348)	ADDRESS	4	P@\$QFORMAT	"V(\$QFORMAT)" Entry to format JQEs
844	(34C)	ADDRESS	4	P@\$QGET	"V(\$QGET)" Entry to JQE get routine
848	(350)	ADDRESS	4	P@\$QJIX	"V(\$QJIX)" Entry to JQE JIX routine
852	(354)	ADDRESS	4	P@\$QLOC	"V(\$QLOC)" Entry to JQE locate routine
856	(358)	ADDRESS	4	P@\$QLOCNXT	"V(\$QLOCNXT)" Locate next JQE in JIX
860	(35C)	ADDRESS	4	P@\$QMOD	"V(\$QMOD)" Entry to JQE modify routine
864	(360)	ADDRESS	4	P@\$QPUT	"V(\$QPUT)" Entry to JQE put routine
868	(364)	ADDRESS	4	P@\$QRBDCCHK	"V(\$QRBDCCHK)" Entry to JQE rebuild/free check routine
872	(368)	ADDRESS	4	P@\$QREBLD	"V(\$QREBLD)" Entry to job queue rebuild routine
876	(36C)	ADDRESS	4	P@\$QREM	"V(\$QREM)" Entry to JQE remove routine
880	(370)	ADDRESS	4	P@\$QVERIF	"V(\$QVERIF)" Entry to job queue verify routine
884	(374)	ADDRESS	4	P@\$RBLDLOG	"V(\$RBLDLOG)" Entry to rebuild SYSLOG JQE chain routine



Table 65. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
888	(378)	ADDRESS	4	P@\$SCHEMEX	"V(\$SCHEMEX)" Alternate Entry to SCHENV processing
892	(37C)	ADDRESS	4	P@\$SCHEMSK	"V(\$SCHEMSK)" Entry to SCHENV processing
896	(380)	ADDRESS	4	P@\$ZJCINIT	"V(\$ZJCINIT)" Entry to init the Job Dependency control blocks
900	(384)	ADDRESS	4	P@CATDUP	"V(CATDUP)" CAT & DUPJOB reconciliation
904	(388)	ADDRESS	4	P@CATHMAX	"V(CATHMAX)" Entry to CATHMAX processing
908	(38C)	ADDRESS	4	P@CKVREFRS	"V(CKVREFRS)" Refresh checkpoint version
912	(390)	ADDRESS	4	P@CLOCCHKR	"V(CLOCCHKR)" TIMECLOC Checker
916	(394)	ADDRESS	4	P@DUPJOB	"V(DUPJOB)" Entry to Dup job processing
920	(398)	ADDRESS	4	P@GTJBSEL	"V(GTJBSEL)" Entry to Job Select subrtne
924	(39C)	ADDRESS	4	P@JNRNGCNT	"V(JNRNGCNT)" Job number range counting
928	(3A0)	ADDRESS	4	P@JOBQSAMP	"V(JOBQSAMP)" Job queue sampling for WLM
932	(3A4)	ADDRESS	4	P@JQECAT	"V(JQECAT)" JQE/CAT time reconciliation
936	(3A8)	ADDRESS	4	P@JQAJOBGR	"V(JQAJOBGR)" Checkpoint JOBGROUP
940	(3AC)	ADDRESS	4	P@MNENF70	"V(MNENF70)" Issue job-level ENF
944	(3B0)	ADDRESS	4	P@MNENF78	"V(MNENF78)" Issue job notification ENF
948	(3B4)	ADDRESS	4	P@MODJCHG	"V(MODJCHG)" Change job MODJOB request
952	(3B8)	ADDRESS	4	P@MODJRLS	"V(MODJRLS)" Release job MODJOB request
956	(3BC)	ADDRESS	4	P@MODJSPN	"V(MODJSPN)" SPIN job ds MODJOB request
960	(3C0)	ADDRESS	4	P@MODJXMBR	"V(MODJXMBR)" Cross member MODJOB request
964	(3C4)	ADDRESS	4	P@QBERTHRE	"V(QBERTHRE)" Determine BERT availability
968	(3C8)	ADDRESS	4	P@QDECHAIN	"V(QDECHAIN)" Entry to JQE dechain rtne
972	(3CC)	ADDRESS	4	P@QJQEVER	"V(QJQEVER)" Entry to JQE address verify routine
976	(3D0)	ADDRESS	4	P@RESETRL	"V(RESETRL)" Entry to reset SCHEDULE AFTER= release list fields routine.
980	(3D4)	ADDRESS	4	P@JQANETGR	"V(JQANETGR)" Process / NET structure
984	(3D8)	ADDRESS	4	P@WLMDEQ	"V(WLMDEQ)" Entry to Dequeue JQE from WLM queue
988	(3DC)	ADDRESS	4	P@WLMENQ	"V(WLMENQ)" Entry to Enqueue JQE onto WLM queue
992	(3E0)	ADDRESS	4	P@ZAPJOB	"V(ZAPJOB)" ZAP Job service
MODULE HASPMISC ROUTINES LISTED ALPHABETICALLY					
996	(3E4)	ADDRESS	4	P@\$CLASSI4	"V(\$CLASSI4)" Entry to \$CLASSI4 routine
1000	(3E8)	ADDRESS	4	P@ENFPOLCY	"V(ENFPOLCY)" Entry to ENF Policy Activation Support



Table 65. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
MODULE HASPNATS ROUTINES LISTED ALPHABETICALLY					
1004	(3EC)	ADDRESS	4	P#\$NATADD	Nodes Attached Table ADD
1008	(3F0)	ADDRESS	4	P@\$NATADD	"V(\$NATADD)" service routine (HASP NATS)
1012	(3F4)	ADDRESS	4	P@NADRECV	"V(NADRECV)" \$NATADD recovery routine
1016	(3F8)	ADDRESS	4	P#\$NATGET	Nodes Attached Table GET
1020	(3FC)	ADDRESS	4	P@\$NATGET	"V(\$NATGET)" service routine (HASP NATS)
1024	(400)	ADDRESS	4	P@NGTREC	"V(NGTREC)" \$NATGET recovery routine
1028	(404)	ADDRESS	4	P#\$NATMOD	Nodes Attached Table MODify
1032	(408)	ADDRESS	4	P@\$NATMOD	"V(\$NATMOD)" service routine (HASP NATS)
1036	(40C)	ADDRESS	4	P@NMDREC	"V(NMDREC)" \$NATMOD recovery routine
1040	(410)	ADDRESS	4	P#\$NATNOT	Nodes Attached Table NOTify
1044	(414)	ADDRESS	4	P@\$NATNOT	"V(\$NATNOT)" service routine (HASP NATS)
1048	(418)	ADDRESS	4	P@NNTREC	"V(NNTREC)" \$NATNOT recovery routine
1052	(41C)	ADDRESS	4	P#\$NATREM	Nodes Attached Table REMove
1056	(420)	ADDRESS	4	P@\$NATREM	"V(\$NATREM)" service routine (HASP NATS)
1060	(424)	ADDRESS	4	P@NRMREC	"V(NRMREC)" \$NATREM recovery routine
1064	(428)	ADDRESS	4	P@\$NATREQ	"V(\$NATREQ)" Requeue NAT to appropriate queue
1068	(42C)	ADDRESS	4	P@NPMVFY	"V(NPMVFY)" Network path manager control block verification service
1072	(430)	ADDRESS	4	P@NPVDCTV	"V(NPVDCTV)" Verify DCT storage is OK
1076	(434)	ADDRESS	4		RESERVED FOR FUTURE USE
MODULE HASPNET ROUTINES LISTED ALPHABETICALLY					
1080	(438)	ADDRESS	4	P@\$FRENHB	"V(\$FRENHB)" Free a header cell
1084	(43C)	ADDRESS	4	P@\$GETNHB	"V(\$GETNHB)" Get a header cell
1088	(440)	ADDRESS	4	P@\$NITSYNC	"V(\$NITSYNC)" NIT/CKPT serialization
1092	(444)	ADDRESS	4	P@NJDCINT	"V(NJDCINT)" LINE DCT INITIALIZATION
1096	(448)	ADDRESS	4	P@NJECHK	"V(NJECHK)" Check I/O completion
1100	(44C)	ADDRESS	4	P@NJEHRCV	"V(NJEHRCV)" Receive NJE header
1104	(450)	ADDRESS	4	P@NJEHRD	"V(NJEHRD)" Read NJE header from spool
1108	(454)	ADDRESS	4	P@NJEHWR	"V(NJEHWR)" Write NJE header to spool
1112	(458)	ADDRESS	4	P@NJEHDMT	"V(NJEHDMT)" Transmit NJE header
1116	(45C)	ADDRESS	4	P@NJEPUT	"V(NJEPUT)" Write NJE record
1120	(460)	ADDRESS	4	P@NJRDACT	"V(NJRDACT)" Clean up receiver jobs
1124	(464)	ADDRESS	4	P@NJBUILD	"V(NJBUILD)" Build job header
1128	(468)	ADDRESS	4	P@NJTBUILD	"V(NJTBUILD)" Build job trailer
1132	(46C)	ADDRESS	4	P@NSETESS	"V(NSETESS)" Set ESS section of SMF 24/57 record
1136	(470)	ADDRESS	4	P@NSJFSPSP	"V(NSJFSPSP)" SWBTU split/splice services



Table 65. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1140	(474)	ADDRESS	4	P@NSMFBSIZ	"V(NSMFBSIZ)" Calculate SMF buffer size
MODULE HASPNJT ROUTINES LISTED ALPHABETICALLY					
1144	(478)	ADDRESS	4	P@NJTPDCUP	"V(NJTPDCUP)" NJE/RJE job transmitter cleanup
MODULE HASPNPM ROUTINES LISTED ALPHABETICALLY					
1148	(47C)	ADDRESS	4	P@HASPNSNR	"V(HASPNSNR)" Initiate NJE signon
1152	(480)	ADDRESS	4	P@NCOMMREQ	"V(NCOMMREQ)" Set up NAT from NTQs
1156	(484)	ADDRESS	4	P@NMAPINIT	"V(NMAPINIT)" Initialize Notify Maps
1160	(488)	ADDRESS	4	P@NPMHOT	"V(NPMHOT)" NPM hot start rechaining
1164	(48C)	ADDRESS	4	P@NPMQSUSE	"V(NPMQSUSE)" NPM request \$QSUSE
1168	(490)	ADDRESS	4	P@NSETSUBS	"V(NSETSUBS)" Set SUBNET chaining fields in the NIT
1172	(494)	ADDRESS	4		Reserved for future use
1176	(498)	ADDRESS	4		Reserved for future use
MODULE HASPNRM ROUTINES LISTED ALPHABETICALLY					
1180	(49C)	ADDRESS	4	P@NRMAJUST	"V(NRMAJUST)" Reset NRM STIMER
Module HASPNSR routines listed alphabetically					
1184	(4A0)	ADDRESS	4	P@NSRPDCUP	"V(NSRPDCUP)" NJE/RJE receiver cleanup
Module HASPNST routines listed alphabetically					
1188	(4A4)	ADDRESS	4	P@NSTPDCUP	"V(NSTPDCUP)" NJE/RJE SYSOUT transmitter cleanup
MODULE HASPNUC ROUTINES LISTED ALPHABETICALLY					
1192	(4A8)	ADDRESS	4	P@\$BFRBLD	"V(\$BFRBLD)" Buffer build routine
1196	(4AC)	ADDRESS	4	P@\$CBIOM	"V(\$CBIOM)" I/O FOR JES2 CONTROL BLOCKS
1200	(4B0)	ADDRESS	4	P@\$CHECK	"V(\$CHECK)" CHECK COMPLETION OF A CKPT WRT
1204	(4B4)	ADDRESS	4	P@\$CKPT	"V(\$CKPT)" SCHED CKPT FOR AN ALTERED ELMT
1208	(4B8)	ADDRESS	4	P@\$DSCLOSE	"V(\$DSCLOSE)" Entry to \$DSCLOSE routine
1212	(4BC)	ADDRESS	4	P@\$DSOPEN	"V(\$DSOPEN)" Entry to \$DSOPEN routine
1216	(4C0)	ADDRESS	4	P@\$DSPUT	"V(\$DSPUT)" Entry to \$DSPUT routine
1220	(4C4)	ADDRESS	4	P@\$DYN	"V(\$DYN)" Dynamic allocate/unallocate
1224	(4C8)	ADDRESS	4	P@\$EXCP	"V(\$EXCP)" EXCP routine
1228	(4CC)	ADDRESS	4	P@\$EXTP	"V(\$EXTP)" RTAM service routines
1232	(4D0)	ADDRESS	4	P@\$FREEBFR	"V(\$FREEBFR)" Free a buffer
1236	(4D4)	ADDRESS	4		Reserved for future use
1240	(4D8)	ADDRESS	4	P@\$FRESMF	"V(\$FRESMF)" Free an SMF buffer
1244	(4DC)	ADDRESS	4	P@\$FREUCBS	"V(\$FREUCBS)" Free storage for UPL



Table 65. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1248	(4E0)	ADDRESS	4	P@\$FREUNIT	"V(\$FREUNIT)" HASP unit 'FREE' routine
1252	(4E4)	ADDRESS	4	P@\$GETBUFR	"V(\$GETBUFR)" Get a buffer
1256	(4E8)	ADDRESS	4		Reserved for future use
1260	(4EC)	ADDRESS	4	P@\$GETSAVE	"V(\$GETSAVE)" Get a \$SAVE area
1264	(4F0)	ADDRESS	4	P@\$GETSMF	"V(\$GETSMF)" Get SMF buffer
1268	(4F4)	ADDRESS	4	P@\$GETUCBS	"V(\$GETUCBS)" Obtain UCB address
1272	(4F8)	ADDRESS	4	P@\$GETUNIT	"V(\$GETUNIT)" HASP unit 'GET' routine
1276	(4FC)	ADDRESS	4	P@\$GETWORK	"V(\$GETWORK)" Get a work area
1280	(500)	ADDRESS	4	P@\$GFMAIN	"V(\$GFMAIN)" ENTRY TO GET/FREE STG RTN
1284	(504)	ADDRESS	4	P@\$IOTCNT	"V(\$IOTCNT)" Entry to daughter count
1288	(508)	ADDRESS	4	P@\$JESEFF	"V(\$JESEFF)" JES2 Exit effector
1292	(50C)	ADDRESS	4	P@\$PAWS	"V(\$PAWS)" PAWS (pause) a PCE
1296	(510)	ADDRESS	4	P@\$PGSRVC	"V(\$PGSRVC)" PAGE SERVICE ROUTINE
1300	(514)	ADDRESS	4	P@\$POST	"V(\$POST)" POST SPECIFIC EVENT ROUTINE
1304	(518)	ADDRESS	4	P@\$POSTSUB	"V(\$POSTSUB)" Subtask post service
1308	(51C)	ADDRESS	4	P@\$QSUSE	"V(\$QSUSE)" Entry to \$QSUSE support
1312	(520)	ADDRESS	4	P@\$QUESMF	"V(\$QUESMF)" Queue SMF buffer
1316	(524)	ADDRESS	4	P@\$RETSAVE	"V(\$RETSAVE)" Save area free routine
1320	(528)	ADDRESS	4	P@\$RETURN	"V(\$RETURN)" Return a \$SAVE area
1324	(52C)	ADDRESS	4	P@\$RETNWORK	"V(\$RETNWORK)" Return a work area
1328	(530)	ADDRESS	4	P@\$SEAS	"V(\$SEAS)" ENTRY TO SECURITY AUTH RTN
1332	(534)	ADDRESS	4	P@\$SEASMSG	"V(\$SEASMSG)" ISSUE THE 077 MESSAGE
1336	(538)	ADDRESS	4	P@\$STCK	"V(\$STCK)" HASP store clock routine
1340	(53C)	ADDRESS	4	P@\$STCKFMT	"V(\$STCKFMT)" HASP store clock conversion
1344	(540)	ADDRESS	4	P@\$STIMER	"V(\$STIMER)" HASP set timer routine
1348	(544)	ADDRESS	4	P@\$SUBIT	"V(\$SUBIT)" SUBTASK WORK QUEUING RTN
1352	(548)	ADDRESS	4	P@\$TTIMER	"V(\$TTIMER)" HASP test timer routine
1356	(54C)	ADDRESS	4	P@\$WAIT	"V(\$WAIT)" WAIT FOR AN EVENT ROUTINE
1360	(550)	ADDRESS	4	P@\$XECBKIL	"V(\$XECBKIL)" XECB DE-CHAINING ROUTINE
1364	(554)	ADDRESS	4	P@GETEVNTR	"V(GETEVNTR)" Get an event record CB
1368	(558)	ADDRESS	4	P@GETPTIME	"V(GETPTIME)" Get elapsed PCE perf time
1372	(55C)	ADDRESS	4	P@GETJOBKY	"V(GETJOBKY)" Obtain a jobkey
1376	(560)	ADDRESS	4	P@MOD875	"V(MOD875)" ISSUE \$HASP875 MESSAGE
1380	(564)	ADDRESS	4	P@SUBDEST	"V(SUBDEST)" SUBTASK A \$DESTCHK CALL
ENTRIES TO HASP SWB MODIFY SUBTASK (HASPODSM)					
1384	(568)	ADDRESS	4	P#SWBMSUB	SWB MODIFY SUBTASK PC NUM
Module HASPPCY routines listed alphabetically					
1388	(56C)	ADDRESS	4	P@\$CDICLN	"V(\$CDICLN)" Cleanup CDI entries
1392	(570)	ADDRESS	4	P@\$CDICRT	"V(\$CDICRT)" Create new CDI entry
1396	(574)	ADDRESS	4	P@\$CDIDLT	"V(\$CDIDLT)" Delete CDI entry



Table 65. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1400	(578)	ADDRESS	4	P@\$CDIFIND	"V(\$CDIFIND)" Find CDI entry
1404	(57C)	ADDRESS	4	P@\$CDIINIT	"V(\$CDIINIT)" Initialize CDI/CDT CTENTs
1408	(580)	ADDRESS	4	P@\$CDITRY	"V(\$CDITRY)" Add and init CDI/CDT CTENTs
1412	(584)	ADDRESS	4	P@\$CDTCMPT	"V(\$CDTCMPT)" Compact CDT CTENT
1416	(588)	ADDRESS	4	P@\$CDTCMP2	"V(\$CDTCMP2)" Compact CDT CTENT (2)
1420	(58C)	ADDRESS	4	P@\$GETPIW	"V(\$GETPIW)" Get policy work area
1424	(590)	ADDRESS	4	P@\$GETPIW2	"V(\$GETPIW2)" Get policy work area (2)
1428	(594)	ADDRESS	4	P@\$PCYDALL	"V(\$PCYDALL)" Delete all in-stor policies
1432	(598)	ADDRESS	4	P@\$PCYIMR	"V(\$PCYIMR)" Policy IMPORT request
1436	(59C)	ADDRESS	4	P@\$PCYINSY	"V(\$PCYINSY)" Policy synchronization in the main task
1440	(5A0)	ADDRESS	4	P@\$PCYSYNT	"V(\$PCYSYNT)" Policy synchronization in a subtask
1444	(5A4)	ADDRESS	4	P@\$RETPIW	"V(\$RETPIW)" Return policy work area
1448	(5A8)	ADDRESS	4	P@\$BINDRPN	"V(\$BINDRPN)" Bind RPN list
1452	(5AC)	ADDRESS	4	PADDR@PCYXOPT	"V(PCYXOPT)" Operator table for expression parsing
Module HASPPRPU routines listed alphabetically					
1456	(5B0)	ADDRESS	4	P@PRPPDCUP	"V(PRPPDCUP)" Remote print/punch cleanup
Entries to HASP Process Sysout (HASPPS0)					
1460	(5B4)	ADDRESS	4	P@TREGROUP	"V(TREGROUP)" Regroup PDDb
1464	(5B8)	ADDRESS	4	P@PSOFRELK	"V(PSOFRELK)" Free job lock and JOE busy
MODULE HASPRAS ROUTINES LISTED ALPHABETICALLY					
1468	(5BC)	ADDRESS	4	P@\$DISTERR	"V(\$DISTERR)" Disastrous error routine
1472	(5C0)	ADDRESS	4	P@\$ESTACAN	"V(\$ESTACAN)" ENTRY TO \$ESTAE CANCEL RTN
1476	(5C4)	ADDRESS	4	P@\$ESTAER	"V(\$ESTAER)" ENTRY TO \$ESTAE ESTAB. RTN
1480	(5C8)	ADDRESS	4	P@\$ESTAREP	"V(\$ESTAREP)" ENTRY TO \$ESTAE REPLACE RTN
1484	(5CC)	ADDRESS	4	P@\$IOERROR	"V(\$IOERROR)" I/O error logging routine
1488	(5D0)	ADDRESS	4	P@\$SDUMP	"V(\$SDUMP)" SVC dump routine
Module HASPRDR routines listed alphabetically					
1492	(5D4)	ADDRESS	4	P@RDRPCUP	"V(RDRPCUP)" NJE/RJE reader cleanup rtn
1496	(5D8)	ADDRESS	4	P@RINTJOB	"V(RINTJOB)" Create Internal Job service
Module HASPRGR routines listed alphabetically					



Table 65. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1500	(5DC)	ADDRESS	4	P@\$DRGINIT	"V(\$DRGINIT)" Process resource groups from init deck
1504	(5E0)	ADDRESS	4	P@\$RGDINIT	"V(\$RGDINIT)" Initialize RGD CTENT
1508	(5E4)	ADDRESS	4	P@\$RGDTRY	"V(\$RGDTRY)" Create and init RGD CTENT
1512	(5E8)	ADDRESS	4	P@\$RGRADD	"V(\$RGRADD)" Add new RGDC to runtime
1516	(5EC)	ADDRESS	4	P@\$RGRDEL	"V(\$RGRDEL)" Delete RGDC from runtime
1520	(5F0)	ADDRESS	4	P@\$RGRRBDX	"V(\$RGRRBDX)" Rebuild RGDC index
1524	(5F4)	ADDRESS	4	P@\$RGRRCNT	"V(\$RGRRCNT)" Update resource counters
1528	(5F8)	ADDRESS	4	P@\$RGRSYNC	"V(\$RGRSYNC)" Sync rsrc group data in CKPT
1532	(5FC)	ADDRESS	4	P@\$RGRSYNM	"V(\$RGRSYNM)" Sync rsrc group data in memory
1536	(600)	ADDRESS	4	P@\$RGRTERM	"V(\$RGRTERM)" Rsrc grp termination clnup
1540	(604)	ADDRESS	4	P@\$RGRTRMC	"V(\$RGRTRMC)" Rsrc grp messages cleanup
1544	(608)	ADDRESS	4		Reserved
1548	(60C)	ADDRESS	4		Reserved
1552	(610)	ADDRESS	4		Reserved
1556	(614)	ADDRESS	4		Reserved
1560	(618)	ADDRESS	4		Reserved
MODULE HASPRTAM ROUTINES LISTED ALPHABETICALLY					
1564	(61C)	ADDRESS	4	P@\$REQBUF	"V(HASPRBUF)" Entry to requeue buffers and request ckpt
1568	(620)	ADDRESS	4	P@\$REQBUFN	"V(HASPRBFN)" Entry to requeue bfirs without requesting ckpt
1572	(624)	ADDRESS	4	P@LNEAVRJE	"V(LNEAVRJE)" Check if Line avail for RJE
1576	(628)	ADDRESS	4	P@MLMRCPCL	"V(MLMRCPCL)" Rebuild PCL chains
1580	(62C)	ADDRESS	4	P@MSAFCHK	"V(MSAFCHK)" SAF CALL FOR LM AND RCP
1584	(630)	ADDRESS	4	P@RMTDVINT	"V(RMTDVINT)" Initialize Rmt Device DCT
1588	(634)	ADDRESS	4	P@RMTDVSET	"V(RMTDVSET)" Setup Rmt Device DCT
1592	(638)	ADDRESS	4	P@RMTLNECK	"V(RMTLNECK)" Check Rmt Line setting
1596	(63C)	ADDRESS	4	P@RMTSETUP	"V(RMTSETUP)" Setup RMT Parameters
1600	(640)	ADDRESS	4	P@VALSCQJQ	"V(VALSCQJQ)" Validate SCQ (\$MASCOMM) JQE
Module HASPSASR Routines listed alphabetically					
1604	(644)	ADDRESS	4	P@SAIHOT	"V(SAIHOT)" SAPI Hot Start Processing
1608	(648)	ADDRESS	4	P@SAIRECC	"V(SAIRECC)" Update record/page counts
MODULE HASPSERV ROUTINES LISTED ALPHABETICALLY					
1612	(64C)	ADDRESS	4	P@ADDCTQ	"V(ADDCTQ)" Addr Add DCT to Q routine
1616	(650)	ADDRESS	4	P@CALCBRTN	"V(CALCBRTN)" ADDR CALC BERTNUM value
1620	(654)	ADDRESS	4	P@CFJOED	"V(CFJOED)" ADDR JOE DISPLAY ROUTINE



Table 65. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1624	(658)	ADDRESS	4	P@DLSBLDTA	"V(DLSBLDTA)" Build time offset array
1628	(65C)	ADDRESS	4	P@GETRECLO	"V(GETRECLO)" ADDR Return logical records
1632	(660)	ADDRESS	4	P@IVATE	"V(IVATE)" Addr of \$ACTIVATE routine
1636	(664)	ADDRESS	4	P@RBLDCTQ	"V(RBLDCTQ)" Addr Rebuild DCT Q rtn
1640	(668)	ADDRESS	4	P@REMDCTQ	"V(REMDCTQ)" Addr Remove DCT from Q rtn
1644	(66C)	ADDRESS	4	P@ROTDCTQ	"V(ROTDCTQ)" Addr Rotate DCT on Q rtn
1648	(670)	ADDRESS	4	P@SRVCFSEL	"V(SRVCFSEL)" Addr of \$CFSEL service rtn
1652	(674)	ADDRESS	4	P@SRVDCTD	"V(SRVDCTD)" ADDR DEVICE CONTROL TABLE DISPLAY ROUTINE
1656	(678)	ADDRESS	4	P@SRVFND CR	"V(SRVFND CR)" ADDR OF FIND CRI ROUTINE
1660	(67C)	ADDRESS	4	P@SRVMOD	"V(SRVMOD)" ADDR MODIFY JOB/SYSOUT CHARS ROUTINE
1664	(680)	ADDRESS	4	P@SRVM630	"V(SRVM630)" Addr of routine to format \$HASP630 message
1668	(684)	ADDRESS	4	P@SRVOLOC	"V(SRVOLOC)" ADDR LOCATE DAS DATA SET DSECT ROUTINE
1672	(688)	ADDRESS	4	P@SRVPREFX	"V(SRVPREFX)" ADDR DEFINE PREFIX TO MCS ROUTINE
1676	(68C)	ADDRESS	4	P@SRVRDIR	"V(SRVRDIR)" ADDR OF ROUTINE TO REDIRECT COMMAND RESPONSES
1680	(690)	ADDRESS	4	P@SRVROUT	"V(SRVROUT)" ADDR CONVERT TO BINARY ROUTE CODE ROUTINE
1684	(694)	ADDRESS	4	P@SRVSASCN	"V(SRVSASCN)" ADDR SYS AFFINITY SCAN RTN
1688	(698)	ADDRESS	4	P@SRVSETUP	"V(SRVSETUP)" ADDR WORK SELECT SET UP RTN
1692	(69C)	ADDRESS	4	P@SRVWSCAN	"V(SRVWSCAN)" ADDR WORK SELECT SCAN RTN
1696	(6A0)	ADDRESS	4	P@SUBRRT	"V(SUBRRT)" SUBTASK \$REROUTE ROUTINE
1700	(6A4)	ADDRESS	4	P@VETIVATE	"V(VETIVATE)" Check \$ACTIVATE viability routine
1704	(6A8)	ADDRESS	4	P@WS2	"V(WS2)" Work selection control block errors
1708	(6AC)	ADDRESS	4	P@XCSAPST	"V(XCSAPST)" Post SAPI WSP
1712	(6B0)	ADDRESS	4	P@\$DLSADDH	"V(\$DLSADDH)" Queue HOLDUNT entry to DLS PCE
1716	(6B4)	ADDRESS	4	P@\$DOGPRA	"V(\$DOGPRA)" \$DOGPRA service
1720	(6B8)	ADDRESS	4	P@\$DOGJAX	"V(\$DOGJAX)" \$DOGJAX service
1724	(6BC)	ADDRESS	4	P@\$ESQCTNT	"V(\$ESQCTNT)" Check ESQ CTENT
1728	(6C0)	ADDRESS	4	P@\$ESQINIT	"V(\$ESQINIT)" Initialize ESQ CTENT
1732	(6C4)	ADDRESS	4	P@\$ESQTRY	"V(\$ESQTRY)" Add and init ESQ CTENT
1736	(6C8)	ADDRESS	4	P@\$MGRMSG	"V(\$MGRMSG)" \$MGRMSG - Service to manage all messages for Privilege support
1740	(6CC)	ADDRESS	4	P@\$MGRPOST	"V(\$MGRPOST)" \$MGRPOST-Post resource avai
1744	(6D0)	ADDRESS	4	P@\$MGRPRA	"V(\$MGRPRA)" \$MGRPRA - Service to manage Privilege Resource Area (PRA)
1748	(6D4)	ADDRESS	4	P@\$WSPXCFY	"V(\$WSPXCFY)" WSP classification WRT the JOE index



Table 65. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1752	(6D8)	ADDRESS	4	P@\$WSPXKEY	"V(\$WSPXKEY)" Get next key value for WSP WRT the JOE index
1756	(6DC)	ADDRESS	4	P@\$XCWCRT	"V(\$XCWCRT)" Create WSP cache
1760	(6E0)	ADDRESS	4	P@\$XCWDLT	"V(\$XCWDLT)" Delete WSP cache
1764	(6E4)	ADDRESS	4	P@\$XCWPOST	"V(\$XCWPOST)" Post all eligible WSPs
1768	(6E8)	ADDRESS	4	P@\$XCWPRG	"V(\$XCWPRG)" Purge WSP from WSP cache
1772	(6EC)	ADDRESS	4	P@\$ZGLSHUT	"V(\$ZGLSHUT)" Shut down jobgroup logging
1776	(6F0)	ADDRESS	4	P@\$ZGLSTOP	"V(\$ZGLSTOP)" Stop logging a jobgroup
1780	(6F4)	ADDRESS	4	P@\$ZGLSTRT	"V(\$ZGLSTRT)" Start logging a jobgroup
1784	(6F8)	ADDRESS	4	P@\$ZGLREQT	"V(\$ZGLREQT)" Request jobgroup logging takeover
1788	(6FC)	ADDRESS	4		RESERVED FOR FUTURE USE
1792	(700)	ADDRESS	4		RESERVED FOR FUTURE USE
MODULE HASPSIR ROUTINES LISTED ALPHABETICALLY					
1796	(704)	ADDRESS	4	P@\$IOTERR	"V(\$IOTERR)" Spin IOT error recovery routine
1800	(708)	ADDRESS	4	P@ISSWTO	"V(ISSWTO)" \$HASP394 Output Lost message routine
MODULE HASPSNA ROUTINES LISTED ALPHABETICALLY					
1804	(70C)	ADDRESS	4	P@APPLDYN	"V(APPLDYN)" DYNAMIC APT LOOKUP/ ATTACH SERVICE ROUTINE (HASPSNA)
1808	(710)	ADDRESS	4	P@SNASNET	"V(SNASNET)" START NETWORKING (\$SN) COMMAND EXIT FOR SNA (HASPSNA)
MODULE HASPSPIN ROUTINES LISTED ALPHABETICALLY					
1812	(714)	ADDRESS	4	P@SPCIOT	"V(SPCIOT)" Spin IOT in CSA (LIFO/ FIFO) check routine
MODULE HASPSPOL ROUTINES LISTED ALPHABETICALLY					
1816	(718)	ADDRESS	4	P@\$DASFMT	"V(\$DASFMT)" FORMAT new DASes
1820	(71C)	ADDRESS	4	P@\$DOGMIG	"V(\$DOGMIG)" Entry to MIG processing
1824	(720)	ADDRESS	4	P@DADADDWQ	"V(DADADDWQ)" Add DAS to DAS work queue
1828	(724)	ADDRESS	4	P@DADAVAIL	"V(DADAVAIL)" DAS TG COUNT ROUTINE
1832	(728)	ADDRESS	4	P@DADCKALL	"V(DADCKALL)" Check command status rtn
1836	(72C)	ADDRESS	4	P@DADCKTGM	"V(DADCKTGM)" TGM CKPT ROUTINE
1840	(730)	ADDRESS	4	P@DADCOUNT	"V(DADCOUNT)" FREE TG COUNTING ROUTINE
1844	(734)	ADDRESS	4	P@DADDEB	"V(DADDEB)" DAS DEB EXT. INIT ROUTINE
1848	(738)	ADDRESS	4	P@DADEXIST	"V(DADEXIST)" Determine if DAS exists
1852	(73C)	ADDRESS	4	P@DADREMVE	"V(DADREMVE)" REMOVE DAS FROM QUEUES RTN
1856	(740)	ADDRESS	4	P@DADREMWQ	"V(DADREMWQ)" REMOVE DAS FROM WORK Q RTN
1860	(744)	ADDRESS	4	P@DADSPACE	"V(DADSPACE)" Log TGM space utilization



Table 65. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1864	(748)	ADDRESS	4	P@DADSTUNT	"V(DADSTUNT)" Deal with stunted volumes
1868	(74C)	ADDRESS	4	P@DADSPLST	"V(DADSPLST)" RESET SPL CONTROL BLOCK RTN
1872	(750)	ADDRESS	4	P@DADTGM	"V(DADTGM)" DAS TGM UPDATE ROUTINE
1876	(754)	ADDRESS	4	P@DADTGMSP	"V(DADTGMSP)" Get TGM Space, Last DAS Rtn
1880	(758)	ADDRESS	4	P@DADXTENT	"V(DADXTENT)" DAS EXTENT INIT ROUTINE
1884	(75C)	ADDRESS	4	P@MIGRRECV	"V(MIGRRECV)" Migration recovery/ restart
1888	(760)	ADDRESS	4	P@RCDSYNC	"V(RCDSYNC)" Initialize RECYDAS
1892	(764)	ADDRESS	4	P@SIGIO	"V(SIGIO)" Signature I/O Routine
1896	(768)	ADDRESS	4	P@SNFQUE	"V(SNFQUE)" Sniffer BLOB Queueing Rtn
1900	(76C)	ADDRESS	4	P@SNFQBLD	"V(SNFQBLD)" Build SNFQUE rtn
1904	(770)	ADDRESS	4	P@SNFQPST	"V(SNFQPST)" Queue SNFQUE rtn
MODULE HASPSSRV ROUTINES LISTED ALPHABETICALLY					
1908	(774)	ADDRESS	4	P@\$REROUTE	"V(\$REROUTE)" REROUTE CMD AUTH ROUTINE
1912	(778)	ADDRESS	4	P@BLDS1154	"V(BLDS1154)" Issue compliance SMF 1154
1916	(77C)	ADDRESS	4	P@CALLBLDM	"V(CALLBLDM)" Call BLDMMSG service
1920	(780)	ADDRESS	4	P@EXTDCTSL	"V(EXTDCTSL)" Extract DCT SECLABEL
1924	(784)	ADDRESS	4	P@FRDRINIS	"V(FRDRINIS)" File reader init (subtask)
1928	(788)	ADDRESS	4	P@FRDRINIT	"V(FRDRINIT)" File reader init
1932	(78C)	ADDRESS	4	P@FRDROPN	"V(FRDROPN)" File reader OPEN member
1936	(790)	ADDRESS	4	P@FRDRREAD	"V(FRDRREAD)" File reader READ
1940	(794)	ADDRESS	4	P@FRDRCLDS	"V(FRDRCLDS)" File reader CLOSE
1944	(798)	ADDRESS	4	P@HASPLIM	"V(HASPLIM)" Resource LIMITS subtask
1948	(79C)	ADDRESS	4	P@JOB SUBMT	"V(JOB SUBMT)" Job submit service
1952	(7A0)	ADDRESS	4	P@NEWSCRE	"V(NEWSCRE)" JESNEWS Dataset creation
1956	(7A4)	ADDRESS	4	P@PSAFSCAN	"V(PSAFSCAN)" PDDB SCAN AND SAF CALL RTN
Module HASPSTUB routines listed alphabetically					
1960	(7A8)	ADDRESS	4	P@CFPOST	"V(CFPOST)" \$\$POST checkpoint
Module HASPSUBS routines listed alphabetically					
1964	(7AC)	ADDRESS	4	P@SUBSPERF	"V(SUBSPERF)" Update subtask perf stats
Module HASPSXIT routines listed alphabetically					
1968	(7B0)	ADDRESS	4	P@LPRMLIBP	"V(LPRMLIBP)" LOGICAL PARMLIB PROCESSING
1972	(7B4)	ADDRESS	4	P@QQSESTAT	"V(QQSESTAT)" QSE state
Module HASPTABS routines listed alphabetically					
1976	(7B8)	ADDRESS	4	P@\$GETABLE	"V(\$GETABLE)" HASPTABS - \$GETABLE service



Table 65. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1980	(7BC)	ADDRESS	4	P@\$PUTABLE	"V(\$PUTABLE)" HASPTABS - \$PUTABLE service
1984	(7C0)	ADDRESS	4	P@\$RETABLE	"V(\$RETABLE)" HASPTABS - \$RETABLE service
Module HASPTCP routines listed alphabetically					
1988	(7C4)	ADDRESS	4	P@CNVIPAD	"V(CNVIPAD)" IP ADDRESS CONVERASION
1992	(7C8)	ADDRESS	4	P@SOCKDYN	"V(SOCKDYN)" DYNAMIC SCK LOOKUP/ATTACH
1996	(7CC)	ADDRESS	4	P@TCPSNET	"V(TCPSNET)" START TCP/IP NJE
Module HASPTERM routines listed alphabetically					
2000	(7D0)	ADDRESS	4	P@\$ABEND	"V(\$ABEND)" JES2 Main task recovery rtn
2004	(7D4)	ADDRESS	4	P@\$HEXIT	"V(\$HEXIT)" Normal JES2 termination
2008	(7D8)	ADDRESS	4	P@\$PCABEND	"V(\$PCABEND)" JES2 PC recovery routine
2012	(7DC)	ADDRESS	4	P@ABNDRATE	"V(ABNDRATE)" Determine ABEND rate
2016	(7E0)	ADDRESS	4	P@HEXTINIT	"V(HEXTINIT)" Termination for HASPINIT
2020	(7E4)	ADDRESS	4	P@WTORTIMR	"V(WTORTIMR)" Waits for a WTOR with a timer
Module HASPTRAK routines listed alphabetically					
2024	(7E8)	ADDRESS	4	P@\$BLDTGB	"V(\$BLDTGB)" Queue TGBs
2028	(7EC)	ADDRESS	4	P@\$PURGER	"V(\$PURGER)" Release IOT tracks
2032	(7F0)	ADDRESS	4	P@\$TGMMIG	"V(\$TGMMIG)" Transpose Source->target TGM bits.
2036	(7F4)	ADDRESS	4	P@\$TGMSET	"V(\$TGMSET)" Set trackgroup map
2040	(7F8)	ADDRESS	4	P@\$TRACK	"V(\$TRACK)" Get SPOOL space
2044	(7FC)	ADDRESS	4	P@COMLOPER	"V(COMLOPER)" L= PROCESSING
2048	(800)	ADDRESS	4	P@PURMASC	"V(PURMASC)" Purge single TGAE
Module HASPWARM routines listed alphabetically					
2052	(804)	ADDRESS	4	P@NQESQ	"V(NQESQ)" Warm start email queues
2056	(808)	ADDRESS	4	P@NQPSOQ	"V(NQPSOQ)" Purge Status/Cancel and PSO queues routine
2060	(80C)	ADDRESS	4	P@NQRELSE	"V(NQRELSE)" Release duplicate jobs
Module HASPXCF routines listed alphabetically					
2064	(810)	ADDRESS	4	P@MSTNTFY	"V(MSTNTFY)" Member state change notify
2068	(814)	ADDRESS	4	P@\$MSTNTFY	"V(\$MSTNTFY)" Same for JES2 environment
2072	(818)	ADDRESS	4	P@\$TQLEVEL	"V(\$TQLEVEL)" Test MAS levels (main task)
2076	(81C)	ADDRESS	4	P@\$TQLVLS	"V(\$TQLVLS)" Test MAS levels (subtask)
2080	(820)	ADDRESS	4	P@XCFBCAST	"V(XCFBCAST)" Broadcast an XCF message
2084	(824)	ADDRESS	4	P@XCFDHOMO	"V(XCFDHOMO)" Determine Homogeneity



Table 65. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2088	(828)	ADDRESS	4	P@XCFHELTH	"V(XCFHELTH)" Health checker Invocation
2092	(82C)	ADDRESS	4	P@XCFJOIN	"V(XCFJOIN)" Member joins XCF group
2096	(830)	ADDRESS	4	P@XCFLEAVE	"V(XCFLEAVE)" Member leaves XCF group
2100	(834)	ADDRESS	4	P@XCFMAPEV	"V(XCFMAPEV)" Map XCF events to QSE
2104	(838)	ADDRESS	4	P@XCFMSTAT	"V(XCFMSTAT)" Query all members status
2108	(83C)	ADDRESS	4	P@XCFQSTAT	"V(XCFQSTAT)" Query a members status
2112	(840)	ADDRESS	4	P@XCFUSTAT	"V(XCFUSTAT)" Update the user status
2116	(844)	ADDRESS	4	P@XCFXMAQU	"V(XCFXMAQU)" Update a members XMAQ
Module HASPXEQ routines listed alphabetically					
2120	(848)	ADDRESS	4	P@\$ASDXCLR	"V(\$ASDXCLR)" ASDS entry clear
2124	(84C)	ADDRESS	4	P@\$ASDXUPD	"V(\$ASDXUPD)" ASDS entry update
2128	(850)	ADDRESS	4	P@\$CATCRNW	"V(\$CATCRNW)" Reset 'no selectable work' field in relevant CAT cache elements.
2132	(854)	ADDRESS	4	P@\$CATCWRT	"V(\$CATCWRT)" Write CAT/GRPOBJ cache to BERTs.
2136	(858)	ADDRESS	4	P@\$CATDEFS	"V(\$CATDEFS)" Set defaults in the CAT
2140	(85C)	ADDRESS	4	P@\$CATINIT	"V(\$CATINIT)" Set CATs in BERTs
2144	(860)	ADDRESS	4	P@\$CATJCNT	"V(\$CATJCNT)" Reset xeq count in CAT
2148	(864)	ADDRESS	4	P@\$CRWSCQ	"V(\$CRWSCQ)" Create WSC
2152	(868)	ADDRESS	4	P@\$CREGWLM	"V(\$CREGWLM)" Register WLM class
2156	(86C)	ADDRESS	4	P@\$DCONSET	"V(\$DCONSET)" Entry to \$DCONSET routine
2160	(870)	ADDRESS	4	P@\$DMNDJOB	"V(\$DMNDJOB)" Demand job start/test
2164	(874)	ADDRESS	4	P@\$DOGCAT	"V(\$DOGCAT)" Deliver or Get CAT
2168	(878)	ADDRESS	4	P@\$DOGGRP	"V(\$DOGGRP)" Deliver or Get CLASGRP
2172	(87C)	ADDRESS	4	P@\$DOGWSCQ	"V(\$DOGWSCQ)" Deliver or Get WSC
2176	(880)	ADDRESS	4	P@\$PLEXREG	"V(\$PLEXREG)" JESplex queue registration
2180	(884)	ADDRESS	4	P@XPURJWEL	"V(XPURJWEL)" Purge JWELs for AS
2184	(888)	ADDRESS	4	P@CATAGRP	"V(CATAGRP)" Add a CAT to a CLASGRP
2188	(88C)	ADDRESS	4	P@CATCBLD	"V(CATCBLD)" Build CAT if necessary
2192	(890)	ADDRESS	4	P@CATCLEAN	"V(CATCLEAN)" Process deleted JOBCCLASS
2196	(894)	ADDRESS	4	P@CATDGRP	"V(CATDGRP)" Delete a CAT from a CLASGRP
2200	(898)	ADDRESS	4	P@CRSIDEQE	"V(CRSIDEQE)" Create WSC Side Queue Entry
2204	(89C)	ADDRESS	4	P@HASP051	"V(HASP051)" BERT Shortage message
2208	(8A0)	ADDRESS	4	P@MODESWIT	"V(MODESWIT)" Mode switch for class queue
2212	(8A4)	ADDRESS	4	P@RESETRSL	"V(RESETRSL)" Reset resource limits (\$TJ RAISE_LIMITS)
2216	(8A8)	ADDRESS	4	P@TIMECLOC	"V(TIMECLOC)" Manage JQE timers
2220	(8AC)	ADDRESS	4	P@WLMGOALS	"V(WLMGOALS)" Compute WLM goals
2224	(8B0)	ADDRESS	4	P@XDUPTEST	"V(XDUPTEST)" Check for duplicates
2228	(8B4)	ADDRESS	4	P@XGOALSYM	"V(XGOALSYM)" SYMREC if bad WSC



Table 65. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2232	(8B8)	ADDRESS	4	P@XINSTART	"V(XINSTART)" Start an initiator
2236	(8BC)	ADDRESS	4	P@XPOSTXEQ	"V(XPOSTXEQ)" EXEC PCE POST routine
2240	(8C0)	ADDRESS	4	P@LOCSDQE	"V(LOCSDQE)" Locate SDQ Class Hdr/ entry
2244	(8C4)	ADDRESS	4		RESERVED FOR FUTURE USE
2248	(8C8)	ADDRESS	4		RESERVED FOR FUTURE USE
2248	(8C8)	X'8CC'	0	PADDRLEN	"*-PADDR" Length of the PADDR table

Table 66. Cross Reference for \$PADDR

Name	Offset	Hex Tag
P#/\$NATADD	3EC	
P#/\$NATGET	3F8	
P#/\$NATMOD	404	
P#/\$NATNOT	410	
P#/\$NATREM	41C	
P#/\$WBMSUB	568	
P@/\$#ADD	27C	
P@/\$#ALCHK	280	
P@/\$#BLD	284	
P@/\$#BUSY	288	
P@/\$#CAN	28C	
P@/\$#CHK	290	
P@/\$#DISPRO	294	
P@/\$#FORMAT	298	
P@/\$#GET	29C	
P@/\$#GTNEWS	2A0	
P@/\$#JOTBLD	2A4	
P@/\$#JOTCHK	2A8	
P@/\$#JWEL	2AC	
P@/\$#MOD	2B0	
P@/\$#NEWS	2B4	
P@/\$#POST	2B8	
P@/\$#PUT	2BC	
P@/\$#RBDCHK	2C0	
P@/\$#REM	2C4	
P@/\$#REP	2C8	
P@/\$#RLNEWS	2CC	
P@/\$#TJEV	2D0	
P@/\$#ZAPJOE	2D4	
P@/\$ABEND	7D0	



Table 66. Cross Reference for \$PADDR (continued)

Name	Offset	Hex Tag
P@\$ASDXCLR	848	
P@\$ASDXUPD	84C	
P@\$BERTFIX	120	
P@\$BFRBLD	4A8	
P@\$BINDRPN	5A8	
P@\$BLDTGB	7E8	
P@\$CATCRNW	850	
P@\$CATCWRT	854	
P@\$CATDEFS	858	
P@\$CATINIT	85C	
P@\$CATJCNT	860	
P@\$CBIOM	4AC	
P@\$CDCTDYN	8C	
P@\$CDICLN	56C	
P@\$CDICRT	570	
P@\$CDIDLT	574	
P@\$CDIFIND	578	
P@\$CDIINIT	57C	
P@\$CDITRY	580	
P@\$CDTCMPT	584	
P@\$CDTCMP2	588	
P@\$CFTRACE	CC	
P@\$CHECK	4B0	
P@\$CKPT	4B4	
P@\$CKPTQUE	124	
P@\$CKTSRV	12C	
P@\$CLASSIF	310	
P@\$CLASSI4	3E4	
P@\$CNITNOT	90	
P@\$CONAFFI	314	
P@\$CREGWL	868	
P@\$CRWSCQ	864	
P@\$DASFMT	718	
P@\$DATAREP	214	
P@\$DCBDYN	224	
P@\$DCONSET	86C	
P@\$DCTDYN	228	
P@\$DESTDYN	22C	
P@\$DILBERT	318	



Table 66. Cross Reference for \$PADDR (continued)

Name	Offset	Hex Tag
P@\$DISTERR	5BC	
P@\$DLSADDH	6B0	
P@\$DMNDJOB	870	
P@\$DOGBERT	128	
P@\$DOGCAT	874	
P@\$DOGDJB	31C	
P@\$DOGGRP	878	
P@\$DOGJAX	6B8	
P@\$DOGJOE	2D8	
P@\$DOGJQE	320	
P@\$DOGMIG	71C	
P@\$DOGPRA	6B4	
P@\$DOGWSCQ	87C	
P@\$DOM	1D8	
P@\$DRGINIT	5DC	
P@\$DSCLOSE	4B8	
P@\$DSOPEN	4BC	
P@\$DSPUT	4C0	
P@\$DTEDYNA	230	
P@\$DTEDYND	234	
P@\$DYN	4C4	
P@\$ESQCTNT	6BC	
P@\$ESQINIT	6C0	
P@\$ESQTRY	6C4	
P@\$ESTACAN	5C0	
P@\$ESTAER	5C4	
P@\$ESTAREP	5C8	
P@\$EXCP	4C8	
P@\$EXTP	4CC	
P@\$FRECBM	1DC	
P@\$FREEBFR	4D0	
P@\$FREJLOK	324	
P@\$FRENHB	438	
P@\$FRESMF	4D8	
P@\$FREUCBS	4DC	
P@\$FREUNIT	4E0	
P@\$GETABLE	7B8	
P@\$GETBUFR	4E4	
P@\$GETCMBR	1E0	



Table 66. Cross Reference for \$PADDR (continued)

Name	Offset	Hex Tag
P@\$GETJLOK	328	
P@\$GETNHB	43C	
P@\$GETPIW	58C	
P@\$GETPIW2	590	
P@\$GETSAVE	4EC	
P@\$GETSMF	4F0	
P@\$GETUCBS	4F4	
P@\$GETUNIT	4F8	
P@\$GETWORK	4FC	
P@\$GFMAIN	500	
P@\$HEXIT	7D4	
P@\$IJSCSV	274	
P@\$IJSSSVF	270	
P@\$IOERROR	5CC	
P@\$IOTCNT	504	
P@\$IOTERR	704	
P@\$JCAN	19C	
P@\$JESEFF	508	
P@\$JQEMERG	32C	
P@\$MGRMSG	6C8	
P@\$MGRPOST	6CC	
P@\$MGRPRA	6D0	
P@\$MODCHK	1F4	
P@\$MODELET	1F8	
P@\$MODLOAD	1FC	
P@\$MSTNTFY	814	
P@\$NATADD	3F0	
P@\$NATGET	3FC	
P@\$NATMOD	408	
P@\$NATNOT	414	
P@\$NATREM	420	
P@\$NATREQ	428	
P@\$NFYURL	330	
P@\$NITSYNC	440	
P@\$PAWS	50C	
P@\$PCABEND	7D8	
P@\$PCEDYDC	238	
P@\$PCEDYN	23C	
P@\$PCYDALL	594	



Table 66. Cross Reference for \$PADDR (continued)

Name	Offset	Hex Tag
P@\$PCYIMR	598	
P@\$PCYINSY	59C	
P@\$PCYSYNT	5A0	
P@\$PGSRVC	510	
P@\$PLEXREG	880	
P@\$POST	514	
P@\$POSTSUB	518	
P@\$PURGER	7EC	
P@\$PUTABLE	7BC	
P@\$QACT	334	
P@\$QADD	338	
P@\$QBUSY	33C	
P@\$QEXTFMT	344	
P@\$QEXTVER	340	
P@\$QFORMAT	348	
P@\$QGET	34C	
P@\$QJIX	350	
P@\$QLOC	354	
P@\$QLOCNXT	358	
P@\$QMOD	35C	
P@\$QPUT	360	
P@\$QRBDCHK	364	
P@\$QREBLD	368	
P@\$QREM	36C	
P@\$QSUSE	51C	
P@\$QUESMF	520	
P@\$QVERIF	370	
P@\$RBLDLOG	374	
P@\$REQBUF	61C	
P@\$REQBUFN	620	
P@\$REROUTE	774	
P@\$RETABLE	7C0	
P@\$RETPIW	5A4	
P@\$RETSAVE	524	
P@\$RETURN	528	
P@\$RETNWORK	52C	
P@\$RGDINIT	5E0	
P@\$RGDTRY	5E4	
P@\$RGRADD	5E8	



Table 66. Cross Reference for \$PADDR (continued)

Name	Offset	Hex Tag
P@\$RGRDEL	5EC	
P@\$RGRRBDX	5F0	
P@\$RGRRCNT	5F4	
P@\$RGRSYNC	5F8	
P@\$RGRSYNM	5FC	
P@\$RGRTERM	600	
P@\$RGRTRMC	604	
P@\$ROLL	244	
P@\$SCHEMEX	378	
P@\$SCHEMSK	37C	
P@\$SDUMP	5D0	
P@\$SEAS	530	
P@\$SEASMSG	534	
P@\$STCK	538	
P@\$STCKFMT	53C	
P@\$STIMER	540	
P@\$SUBIT	544	
P@\$TGMIG	7F0	
P@\$TGMSET	7F4	
P@\$TQLEVEL	818	
P@\$TQLVLS	81C	
P@\$TRACK	7F8	
P@\$TTIMER	548	
P@\$WAIT	54C	
P@\$WSPXCFY	6D4	
P@\$WSPXKEY	6D8	
P@\$WTO	1E4	
P@\$WTOC	1E8	
P@\$XCWCRT	6DC	
P@\$XCWDLT	6E0	
P@\$XCWPOST	6E4	
P@\$XCWPRG	6E8	
P@\$XECBKIL	550	
P@\$ZGLREQT	6F8	
P@\$ZGLSHUT	6EC	
P@\$ZGLSTOP	6F0	
P@\$ZGLSTRT	6F4	
P@\$ZJCINIT	380	
P@ABNDRATE	7DC	



Table 66. Cross Reference for \$PADDR (continued)

Name	Offset	Hex Tag
P@ADDCTQ	64C	
P@ADDT0INX	2DC	
P@APPLDYN	70C	
P@ARODREG	80	
P@AROQRYA	84	
P@BERTFMT	130	
P@BERTMAP	134	
P@BLDS1154	778	
P@CALCBRTN	650	
P@CALLBLDM	77C	
P@CATAGRP	888	
P@CATCBLD	88C	
P@CATCLEAN	890	
P@CATDGRP	894	
P@CATDUP	384	
P@CATHMAX	388	
P@CFALOC	94	
P@CFBLDLST	98	
P@CFCOMP	A0	
P@CFDELETE	9C	
P@CFEVEN	A4	
P@CFFCOMP	AC	
P@CFFFORMAT	B4	
P@CFJOED	654	
P@CFNOTIFY	A8	
P@CFPARSE	1A0	
P@CFPOST	7A8	
P@CFPURGE	DC	
P@CFQLOCK	B8	
P@CFQUERY	BC	
P@CFRDATA	C0	
P@CFRDLEC	B0	
P@CFRDLIST	D0	
P@CFRDONE	C4	
P@CFREAD2	D8	
P@CFREL	C8	
P@CFRESV	D4	
P@CFSTRTIO	E0	
P@CFTRK1IO	E4	



Table 66. Cross Reference for \$PADDR (continued)

Name	Offset	Hex Tag
P@CFUNAL	E8	
P@CFWRINPL	EC	
P@CFWRITE	F0	
P@CJFLCMB	1A4	
P@CKPTALOC	F8	
P@CKPTUNAL	FC	
P@CKPTVSIZ	100	
P@CKPTXPND	104	
P@CKRRDONE	168	
P@CKRRINIT	16C	
P@CKRRMASK	170	
P@CKRRSTRT	174	
P@CKRRSYNC	178	
P@CKVREFRS	38C	
P@CLOCCHKR	390	
P@CNVIPAD	7C4	
P@COFCVE	1A8	
P@COFEDTR	1AC	
P@COFJMSG	1B0	
P@COFRTC	1B4	
P@COMBEWTO	1B8	
P@COMFRELK	1BC	
P@COMLOPER	7FC	
P@CRSIDEQE	898	
P@CSCANDSP	1C0	
P@CSMICMD	1C4	
P@CSV\$DEL	200	
P@CSV\$LOAD	204	
P@CWTO	1C8	
P@CWTOT	1CC	
P@DADADDWQ	720	
P@DADAVAIL	724	
P@DADCKALL	728	
P@DADCKTGM	72C	
P@DADCOUNT	730	
P@DADDEB	734	
P@DADEXIST	738	
P@DADREMVE	73C	
P@DADREMWQ	740	



Table 66. Cross Reference for \$PADDR (continued)

Name	Offset	Hex Tag
P@DADSPACE	744	
P@DADSPLST	74C	
P@DADSTUNT	748	
P@DADTGM	750	
P@DADTGMSP	754	
P@DADXTENT	758	
P@DILJCAN	1D0	
P@DLSBLDTA	658	
P@DRXFRMAT	218	
P@DRXREBLD	21C	
P@DRXVERFY	220	
P@DSNVERFY	254	
P@DUPJOB	394	
P@DYNFSS	260	
P@ENFPOLCY	3E8	
P@EXTDCTSL	780	
P@FRDRCLOS	794	
P@FRDRINIS	784	
P@FRDRINIT	788	
P@FRDROPEN	78C	
P@FRDRREAD	790	
P@FXEBLD	25C	
P@GETEVNTR	554	
P@GETJOBKY	55C	
P@GETPTIME	558	
P@GETRECL0	65C	
P@GTJBSEL	398	
P@GTSCREEN	2E0	
P@GTSP00L	2E4	
P@HASPBACK	24	
P@HASPBPPO	20	
P@HASPBSA	C	
P@HASPBSLN	2C	
P@HASPBUNT	28	
P@HASPEXDS	258	
P@HASPLIM	798	
P@HASPNSNR	47C	
P@HASPROUT	10	
P@HASPSACB	44	



Table 66. Cross Reference for \$PADDR (continued)

Name	Offset	Hex Tag
P@HASPSICE	48	
P@HASPSIDL	3C	
P@HASPSLNE	38	
P@HASPSLOG	34	
P@HASPSNAA	14	
P@HASPSPRO	30	
P@HASPSRAT	4C	
P@HASPSAL	50	
P@HASPSUNT	40	
P@HASPTACT	58	
P@HASPTASV	64	
P@HASPTCPA	18	
P@HASPTIDL	5C	
P@HASPTPRO	54	
P@HASPTSSV	68	
P@HASPTUNT	60	
P@HASPWQUE	1EC	
P@HASPWQUW	1F0	
P@HASPXFRA	1C	
P@HASP051	89C	
P@HEXTINIT	7E0	
P@H607RSN	1D4	
P@ISSWTO	708	
P@IVATE	660	
P@JNRNGCNT	39C	
P@JOBQSAMP	3A0	
P@JOBSUBMT	79C	
P@JOECLUP	2E8	
P@JOEPPSCR	2EC	
P@JOEPSCRN	2F0	
P@JOESYNC	2F4	
P@JOTFRECL	2F8	
P@JOTVERIF	2FC	
P@JQAJOBGR	3A8	
P@JQANETGR	3D4	
P@JQECAT	3A4	
P@KBLDCKB	F4	
P@KBUPDJQE	138	
P@KBUPDTGS	13C	



Table 66. Cross Reference for \$PADDR (continued)

Name	Offset	Hex Tag
P@KCPYMSTR	140	
P@KDIALOG	108	
P@KFORMAT	144	
P@KGETCHLG	148	
P@KPROTECT	14C	
P@KREAD2	150	
P@KRELEASE	10C	
P@KRESERVE	110	
P@KSETINFO	114	
P@KSETMSTR	154	
P@KTRK1IO	158	
P@LNEAVRJE	624	
P@LOCENTRY	208	
P@LOCLMOD	20C	
P@LOCMODMP	210	
P@LOCSDQE	8C0	
P@LPRMLIBP	7B0	
P@MIGRRECV	75C	
P@MLMRCPL	628	
P@MLMVFY	7C	
P@MNENF58	300	
P@MNENF70	3AC	
P@MNENF78	3B0	
P@MODESWIT	8A0	
P@MODJCHG	3B4	
P@MODJRLS	3B8	
P@MODJSPN	3BC	
P@MODJXMBR	3C0	
P@MOD875	560	
P@MPURIO	88	
P@MSAFCHK	62C	
P@MSTNTFY	810	
P@NADRECV	3F4	
P@NCOMMREQ	480	
P@NEWSCRE	7A0	
P@NGTREC	400	
P@NJDCTINT	444	
P@NJECHCK	448	
P@NJEHDRCV	44C	



Table 66. Cross Reference for \$PADDR (continued)

Name	Offset	Hex Tag
P@NJEHDRD	450	
P@NJEHDWR	454	
P@NJEHDXMT	458	
P@NJEPUT	45C	
P@NJERDACT	460	
P@NJHBUILD	464	
P@NJTBUILD	468	
P@NJTPDCUP	478	
P@NMAPINIT	484	
P@NMDRECV	40C	
P@NNTRECV	418	
P@NPMHOT	488	
P@NPMQSUSE	48C	
P@NPMVFY	42C	
P@NPVDCTV	430	
P@NQESQ	804	
P@NQPSOQ	808	
P@NQRELSE	80C	
P@NRMAJUST	49C	
P@NRMRECV	424	
P@NSETESS	46C	
P@NSETSUBS	490	
P@NSJFSPSP	470	
P@NSMFBSIZ	474	
P@NSRPDCUP	4A0	
P@NSTPDCUP	4A4	
P@OPGROUP	264	
P@OPMAILMG	268	
P@OPNULLCK	26C	
P@PROCALOC	198	
P@PRPPDCUP	5B0	
P@PRTDFLT	240	
P@PSAFSCAN	7A4	
P@PSOFRELK	5B8	
P@PURMASC	800	
P@QBERTHRE	3C4	
P@QDECHAIN	3C8	
P@QJQEVER	3CC	
P@QQSESTAT	7B4	



Table 66. Cross Reference for \$PADDR (continued)

Name	Offset	Hex Tag
P@QWLMSVDF	15C	
P@RBLDCTQ	664	
P@RCDSYNC	760	
P@RDRPDCUP	5D4	
P@REMDCTQ	668	
P@RESETRL	3D0	
P@RESETRSL	8A4	
P@RINTJOB	5D8	
P@RMTDVINT	630	
P@RMTDVSET	634	
P@RMTLNECK	638	
P@RMTSETUP	63C	
P@ROTDCTQ	66C	
P@RTNINDEX	304	
P@SAIHOT	644	
P@SAIRECC	648	
P@SAPIPOST	308	
P@SHRLIVE	18C	
P@SIGIO	764	
P@SNASNET	710	
P@SNFQBLD	76C	
P@SNFQPST	770	
P@SNFQUE	768	
P@SOCKDYN	7C8	
P@SPCIOT	714	
P@SRVCFSEL	670	
P@SRVDCTD	674	
P@SRVFNDCCR	678	
P@SRVMOD	67C	
P@SRVM630	680	
P@SRVOLOC	684	
P@SRVPREFX	688	
P@SRVRDIR	68C	
P@SRVROUT	690	
P@SRVSASCN	694	
P@SRVSETUP	698	
P@SRVWSCAN	69C	
P@SUBDEST	564	
P@SUBRRT	6A0	



Table 66. Cross Reference for \$PADDR (continued)

Name	Offset	Hex Tag
P@SUBSPERF	7AC	
P@TCPSNET	7CC	
P@TIMECLOC	8A8	
P@TRCDUMP	248	
P@TRCPUT	24C	
P@TREGROUP	5B4	
P@TRGETTB	250	
P@UNSHRLIV	190	
P@VALSCQJQ	640	
P@VETIVATE	6A4	
P@WLMDEQ	3D8	
P@WLMENQ	3DC	
P@WLMGOALS	8AC	
P@WS2	6A8	
P@WTORTIMR	7E4	
P@XCFCBCAST	820	
P@XCFDHOMO	824	
P@XCFHELTH	828	
P@XCFJOIN	82C	
P@XCFLEAVE	830	
P@XCHEMAPEV	834	
P@XCFMSTAT	838	
P@XCFQSTAT	83C	
P@XCFUSTAT	840	
P@XCFXMAQU	844	
P@XCLDVPST	30C	
P@XCSAPST	6AC	
P@XDUPTEST	8B0	
P@XGOALSYM	8B4	
P@XINSTART	8B8	
P@XPOSTXEQ	8BC	
P@XPURJWEL	884	
P@ZAPJOB	3E0	
PADDR	0	
PADDR@OC00FFST	8	
PADDR@PCYXOPT	5AC	
PADDRID	0	D7C1C4D9
PADDRLEN	8C8	8CC
PADDRV	4	



Table 66. Cross Reference for \$PADDR (continued)

Name	Offset	Hex Tag
PADDRVN	4	6

## \$PARMLST information

### \$PARMLST heading information

<b>Common name:</b>	JES2 inline parameter list DSECT
<b>Macro ID:</b>	\$PARMLST
<b>DSECT name:</b>	PARMLIST
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	None
<b>Storage attributes:</b>	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.
<b>Size:</b>	Variable
<b>Created by:</b>	Created at assembly time by \$CALL with the INLINE= parameter.
<b>Pointed to by:</b>	N/A
<b>Serialization:</b>	None required
<b>Function:</b>	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 mapping

Table 67. Structure PARMLIST

Offset Dec	Offset Hex	Type	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
MEMBER NAME --> \$\$PO ROUTINE(S) ---> \$\$POST in HASCSRIC MACRO(S) -----> \$\$POST Wake up the JES2 main task					
4	(4)	BITSTRING	1	\$\$POFLG1	\$\$POST flag byte



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		\$\$P01BRA	"B'10000000'" LINKAGE=BRANCH POST
		.1.. ..		\$\$P01SYS	"B'01000000'" LINKAGE=SYSTEM POST
		B'00xxxxxx' LINKAGE=SVC POST			
		..1. ....		\$\$P01ELM	"B'00100000'" ELMT specified
		...1 ....		\$\$P01RUN	"B'00010000'" Run time \$DRxxx value
		.... 1...		\$\$P01BR3	"B'00001000'" LINKAGE=CVT0PT03 POST
5	(5)	ADDRESS	1		Reserved
		MEMBER NAME --> \$AE0J ROUTINE(S) ---> ARME0J in HASCARSO MACRO(S) -----> none ARM end of job routine. This parameter list is FROZEN.			
4	(4)	BITSTRING	1	\$AE0JFL1	\$AE0J FLAG BYTE
		1... ..		\$AE0J1JT	"B'10000000'" Job termination call
		.1.. ..		\$AE0J1EM	"B'01000000'" End of memory call
		MEMBER NAME --> \$ARTEADD ROUTINE(S) ---> ARTEADD in HASCSRJB MACRO(S) -----> \$ARTEADD Add Allocated Resource Table history Entry			
4	(4)	SIGNED	1	\$ARTREST	\$ARTEADD Resource Type
4	(4)	X'1'	0	\$ARTSPOL	"1" SPOOL tracks
4	(4)	X'2'	0	\$ARTJQE	"2" JQEs
4	(4)	X'3'	0	\$ARTJOE	"3" Work JOEs
4	(4)	X'4'	0	\$ARTBERT	"4" BERTs
5	(5)	BITSTRING	1	\$ARTFLG1	\$ARTEADD flag byte 1
		1... ..		\$ART1ASI	"B'10000000'" ASID supplied
		.1.. ..		\$ART1JQE	"B'01000000'" JQE or JQA supplied
		..1. ....		\$ART1SJB	"B'00100000'" SJB supplied
6	(6)	BITSTRING	1	\$ARTFLG2	\$ARTEADD flag byte 2
		1... ..		\$ART2AR	"B'10000000'" AR mode active
		.1.. ..		\$ART264	"B'01000000'" 64 bit mode active
		..1. ....		\$ART2J2M	"B'00100000'" JES2 main task environment
		...1 ....		\$ART2USR	"B'00010000'" User environment
		.... 1...		\$ART2TSK	"B'00001000'" Subtask environment
		MEMBER NAME --> \$ARTERAT ROUTINE(S) ---> ARTERAT in HASCSRJB MACRO(S) -----> \$ARTERAT Calculate selected resource consumption rate			
4	(4)	SIGNED	1	\$ARCREST	\$ARTECNT Resource Type - see ARTREST above for possible values
5	(5)	BITSTRING	1	\$ARCF LG1	\$ARTECNT flag byte 1
		1... ..		\$ARC1ASI	"B'10000000'" ASID supplied
		.1.. ..		\$ARC1JQE	"B'01000000'" JQE or JQA supplied
		..1. ....		\$ARC1SJB	"B'00100000'" SJB supplied
6	(6)	BITSTRING	1	\$ARCF LG2	\$ARTEADD flag byte 2
		1... ..		\$ARC2AR	"B'10000000'" AR mode active



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1.. ....		\$ARC264	"B'01000000'" 64 bit mode active
		..1. ....		\$ARC2J2M	"B'00100000'" JES2 main task environment
		...1 ....		\$ARC2USR	"B'00010000'" User environment
		.... 1...		\$ARC2TSK	"B'00001000'" Subtask environment
MEMBER NAME --> \$BLDTGB ROUTINE(S) ---> \$BLDTGB in HASPTRAK MACRO(S) -----> \$BLDTGB Build trackgroup block					
4	(4)	BITSTRING	1	\$BTGFLG1	\$BLDTGB flag byte
		1... ....		\$BTGBMTR	"B'10000000'" ID=MTTR was specified
		.1.. ....		\$BTGBTGM	"B'01000000'" ID=TGM was specified
		..1. ....		\$BTGBMQR	"B'00100000'" ID=MQTR was specified
MEMBER NAME --> CATCBLD ROUTINE(S) ---> CATCBLD in HASPXEQ MACRO(S) -----> N/A Build CAT cache					
4	(4)	BITSTRING	1	\$CBLFLG1	CATBLD flag byte
		1... ....		\$CBL1NWA	"B'10000000'" Caller cannot \$WAIT
MEMBER NAME --> \$CBIO ROUTINE(S) ---> \$CBIO IN HASCSRDS \$CBIO in HASPNUC MACRO(S) -----> \$CBIO CONTROL BLOCK I/O ROUTINE.					
4	(4)	BITSTRING	1	\$CBIFLG1	\$CBIO flag byte
EQU B'10000000' Reserved					
		.1.. ....		\$CB1EXIT	"B'01000000'" EXIT 8 SHOULD BE TAKEN
		..1. ....		\$CB1NOVF	"B'00100000'" BYPASS CNTRL BLK VERIFY
		...1 ....		\$CB1NSJB	"B'00010000'" NO SJB PROVIDED
		.... 1...		\$CB1SJI0	"B'00001000'" SJI0B PROVIDED
		.... .1..		\$CB1FREE	"B'00000100'" FREE THE BUFFER
		.... ..1.		\$CB1WAIT	"B'00000010'" ON - WAIT=YES SPECIFIED, OFF - WAIT=NO SPECIFIED.
		.... ...1		\$CB1COND	"B'00000001'" Conditional Write
5	(5)	BITSTRING	1	\$CBIFLG2	\$CBIO flag byte
		1... ....		\$CB2WRIT	"B'10000000'" TYPE=WRITE operation
		.1.. ....		\$CB2TWAT	"B'01000000'" TYPE=WAIT requested
		..1. ....		\$CB2FSSM	"B'00100000'" \$CBIO called from FSSM
		...1 ....		\$CB2SUPM	"B'00010000'" Suppress error messages
		.... 1...		\$CB2MQTR	"B'00001000'" MQTR passed in register 0
		.... .1..		\$CB2SPLQ	"B'00000100'" SPOLPTR is an MQTR
		.... ..1.		\$CB2NORF	"B'00000010'" WAIT=(NO,NOREF) SPECIFIED
		.... ...1		\$CB2AM24	"B'00000001'" Obtain buffers below line
6	(6)	BITSTRING	1	\$CBIFLG3	\$CBIO flag byte
		1... ....		\$CB3HAMW	"B'10000000'" Use HPUTFULL for write



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
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
18	(12)	ADDRESS	4	\$CBVERIX	Verify index (if known)
22	(16)	CHARACTER	8	\$CBISECT	Control Section name
30	(1E)	CHARACTER	8	\$CBISEQF	Invoking seq number
MEMBER NAME --> \$VERIFY ROUTINE(S) ---> \$VERIFY in HASCSRDS MACRO(S) -----> \$VERIFY CPIO control block verification service \$VERIFY passes parameters in registers and does not use inline parameter list. However, one of the parameters is a pointer to 4 byte control block ID. It can be a 4 character EBCDIC identifier of a control block (e.g. 'IOT '); or 4 byte binary index in the verification table HASPVTAB (in HASCSRDS). Note that equates in this list should be in the same order as entries in HASPVTAB.					
30	(1E)	X'0'	0	\$VFYCHK	"0" Verify CHK
30	(1E)	X'1'	0	\$VFYDSCA	"1" Verify DSCA
30	(1E)	X'2'	0	\$VFYDSIX	"2" Verify DSIX
30	(1E)	X'3'	0	\$VFYHDB	"3" Verify HDB
30	(1E)	X'4'	0	\$VFYIOT	"4" Verify IOT
30	(1E)	X'5'	0	\$VFYJCT	"5" Verify JCT
30	(1E)	X'6'	0	\$VFYOCT	"6" Verify OCT
30	(1E)	X'7'	0	\$VFYSWBI	"7" Verify SWBI
30	(1E)	X'8'	0	\$VFYNHSB	"8" Verify NHSB
30	(1E)	X'9'	0	\$VFYTLBM	"9" Verify TLBM
30	(1E)	X'A'	0	\$VFYJSMT	"10" Verify JSMT
30	(1E)	X'B'	0	\$VFYEMQT	"11" Verify EMQT
30	(1E)	X'C'	0	\$VFYDSET	"12" Verify DSET
30	(1E)	X'D'	0	\$VFYDREP	"13" Verify DREP
MEMBER NAME --> \$CDCTDYN ROUTINE(S) ---> \$CDCTDYN in HASPDYN MACRO(S) -----> \$CDCTDYN					
4	(4)	BITSTRING	1	\$CDCTYPE	Flag byte 1
4	(4)	X'1'	0	\$CDCTDCT	"1" DCT= was specified
4	(4)	X'2'	0	\$CDCTAPT	"2" APT= was specified
4	(4)	X'3'	0	\$CDCTSCK	"3" SCK= was specified
4	(4)	X'4'	0	\$CDCTRAT	"4" RAT= was specified
4	(4)	X'5'	0	\$CDCTCDC	"5" CDCT= was specified
4	(4)	X'6'	0	\$CDCTXRQ	"6" XREQ= was specified
4	(4)	X'7'	0	\$CDCTLIM	"7" LIM= was specified
4	(4)	X'8'	0	\$CDCTPAD	"8" PAD= was specified
5	(5)	BITSTRING	1	\$CDCFLG1	Flag byte 2
		1... ....		\$CDC1CRE	"B'10000000'" CREATE=YES
		.1.. ....		\$CDC1SYN	"B'01000000'" SYNCH=YES



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		..1. ....		\$CDC1BRO	"B'00100000" BROADCAST=YES
		...1 ....		\$CDC1INV	"B'00010000" MARK=INVALID
		.... 1...		\$CDC1VAL	"B'00001000" MARK=VALID
		.... .1..		\$CDC1BRC	"B'00000100" BROADCAST=COND
		.... ..1.		\$CDC164B	"B'00000010" CB is 64bit address
		.... ...1		\$CDC1DC2	"B'00000001" Create a CDC2 control block
MEMBER NAME --> \$CDTCMPT ROUTINE(S) ---> \$CDTCMPT in HASPPCY MACRO(S) -----> None \$CDTCMPT routine inline parameter list.					
4	(4)	BITSTRING	1	\$CDSFLG1	Parameter flags:
		1... ....		\$CDS1RSZ	"B'10000000" - resize CDT CTENT
		.1.. ....		\$CDS1NCK	"B'01000000" - \$CKPT is not needed
MEMBER NAME --> \$CFX ROUTINE(S) ---> CSMICMD IN HASPCOMM MACRO(S) -----> \$CFXMJC Single Member Image subroutine.					
4	(4)	BITSTRING	1	\$CFXFLG1	Response flag
		1... ....		\$CFX1RSP	"B'10000000" Return a command response
5	(5)	BITSTRING	1		Reserved for future use
Member name --> \$CKPALOC Routine(s) ---> CKPTALOC in HASPCKDS Macro(s) -----> \$CKPALOC Checkpoint allocation service					
4	(4)	BITSTRING	1	\$CKAPARF	\$CKPALOC flag byte
		1... ....		\$CKAOLD	"B'10000000" OLD=YES was specified
		.1.. ....		\$CKANEW	"B'01000000" NEW=YES was specified
		..1. ....		\$CKADEF	"B'00100000" NEW=DEFER was specified
Member name --> \$CKPT Routine(s) ---> \$CKPT in HASPNUC Macro(s) -----> \$CKPT Checkpoint control block change					
4	(4)	BITSTRING	1	\$CKPARMF	\$CKPT flag byte
		1... ....		\$CKPPPOST	"B'10000000" \$POST CKPT
		.1.. ....		\$CKPUNK	"B'01000000" Unknown ID
		..1. ....		\$CKPLENX	"B'00100000" Extended length in R15
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	4	\$CKPID	CTENT ID
MEMBER NAME --> \$CKPTQUE ROUTINE(S) ---> \$CKPTQUE IN HASPCKPT MACRO(S) -----> \$CKPTQUE Queue work to CKPT PCE					
4	(4)	ADDRESS	4	\$CKQRTN	Routine address
MEMBER NAME --> \$MSGLOCK ROUTINE(S) ---> MSGLOCK in HASCSRIC MACRO(S) -----> \$GETMLOCK Get CMS or LOCAL lock (or both)					



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	1	\$CMMSGFLG	Flags
		1... ....		\$CMMSGLOC	"B'10000000'" Get LOCAL lock only
		.1.. ....		\$CMMSGCMS	"B'01000000'" Get CMS lock only
		11.. ....		\$CMMSGBTH	"B'11000000'" Get LOCAL and CMS lock
MEMBER NAME --> \$CMSFLOK ROUTINE(S) ---> CMSFLOK in HASCSRIC MACRO(S) -----> \$FREMLOK Free CMS or LOCAL lock (or both)					
4	(4)	BITSTRING	1	\$CMSFFLG	Flags
		1... ....		\$CMSFLOC	"B'10000000'" Free LOCAL lock only
		.1.. ....		\$CMSFCMS	"B'01000000'" Free CMS lock only
		11.. ....		\$CMSFBTH	"B'11000000'" Free local and CMS lock
MEMBER NAME --> \$CPL ROUTINE(S) ---> CPGET, CPFREE in HASCPPOOL MACRO(S) -----> \$CPOOL CPOOL TYPE=GET SUBROUTINE.					
4	(4)	BITSTRING	1	\$CPL1	
		1... ....		\$CPL1CDY	"B'10000000'" \$CPOOL COND=YES
		.1.. ....		\$CPL1HYN	"B'01000000'" \$CPOOL HASXB=NONE
MEMBER NAME --> \$CRJOES ROUTINE(S) ---> CRJOES in HASCSISC MACRO(S) -----> \$CRJOES Create JOEs or JOA (optionally acquire and free storage for JOA)					
4	(4)	BITSTRING	1	\$CRJFLG1	
		..1. ....		\$CRJ1ALC	"B'00100000'" ALLOCATE and return JOA
		...1 ....		\$CRJ1FRE	"B'00010000'" FREEMAIN JOA
		.... 1..		\$CRJ1CLR	"B'00001000'" Clear passed JOA
MEMBER NAME --> \$CKTSRV ROUTINE(S) ---> \$CKTSRV in HASPCKPT MACRO(S) -----> None \$CKTSRV routine inline parameter list.					
4	(4)	BITSTRING	1	\$CKSREQ	Request/event type:
4	(4)	X'1'	0	\$CKSSTRT	"1" - START CKPT tuning
4	(4)	X'2'	0	\$CKSSTOP	"2" - STOP CKPT tuning
4	(4)	X'3'	0	\$CKSADDM	"3" - ADD MEMBER
4	(4)	X'4'	0	\$CKSDELM	"4" - DELETE MEMBER
4	(4)	X'5'	0	\$CKSOPT	"5" - OPTIMIZE CKPT cycle
5	(5)	BITSTRING	1	\$CKSFLG1	Parameter flags:
		1... ....		\$CKS1ALL	"B'10000000'" - apply to all members
		.1.. ....		\$CKS1LVC	"B'01000000'" - check member levels when sending message
		..1. ....		\$CKS1XRQ	"B'00100000'" - XREQ passed in R1



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
MEMBER NAME --> CRSQBLD ROUTINE(S) ---> CRSQBLD IN HASPXEQ MACRO(S) -----> N/A Passes the WSC address and the JQE address of a service class job to insert into the Side Queue. A flag is passed to indicate if all Side Queue structures are to be built, a Service Class SDQ Header, or just a Service Class SQD entry. The WSC and JQE addresses are passed in registers See CRSQBLD prologue.					
4	(4)	BITSTRING	1	\$CRSFLG	Flags
		1... ....		\$CRSALL	"B'10000000'" Build all SDQHDR blocks
		.1.. ....		\$CRSCLH	"B'01000000'" Build a SDQ Class Header and its SDQ entry
		..1. ....		\$CRSCLE	"B'00100000'" Build just a SDQ entry
MEMBER NAME --> \$CW ROUTINE(S) ---> CWT0 IN HASPCOMM MACRO(S) -----> \$CWT0 WRITE - TO - OPERATOR SUBROUTINE.					
4	(4)	ADDRESS	1	\$CWT0FLG	
		1... ....		\$CWTOMVC	"B'10000000'" EXECUTE OF MVC INSTRUCT. NEEDED
		.1.. ....		\$CWTOLST	"B'01000000'" LAST LINE OF MLWTO
		..1. ....		\$CWTONT	"B'00100000'" WAIT=NO WAS SPECIFIED
MEMBER NAME --> \$DIL ROUTINE(S) ---> \$DILBERT in HASPJQS MACRO(S) -----> \$DILBERT Do It Later when BERT lock is available routine inline parameter list					
4	(4)	BITSTRING	1	\$DILTYPE	TYPE specification
4	(4)	X'1'	0	\$DILTJQE	"1" TYPE=JQE specified
4	(4)	X'2'	0	\$DILTJOE	"2" TYPE=JOE specified
5	(5)	BITSTRING	1	\$DILVERS	Version
5	(5)	X'1'	0	\$DILCVER	"1" Current version
6	(6)	BITSTRING	1	\$DILFLG1	Flag byte
		1... ....		\$DILF1CL	"B'10000000'" CALL=YES speciifed
		.1.. ....		\$DILF1IM	"B'01000000'" Execute immediate instruction rather than calling routine
		..1. ....		\$DILF1WA	"B'00100000'" \$WAIT for flush
		...1 ....		\$DILF1FL	"B'00010000'" Flush DWAs
		.... 1...		\$DILF1P0	"B'00001000'" \$POST Resource
		.... .1..		\$DILF1ND	"B'00000100'" Do not queue duplicates
		.... ..1.		\$DILF1QP	"B'00000010'" QPOST when resource ret
		.... ...1		\$DILF1#P	"B'00000001'" \$#POST when resource ret
7	(7)	BITSTRING	1	\$DILFLG2	Second Flag byte
		1... ....		\$DILF2PA	"B'10000000'" Pace requests by rtn addr
		.1.. ....		\$DILF2QS	"B'01000000'" Queues need not be owned
		..1. ....		\$DILF2SP	"B'00100000'" Get JQA in special mode
		...1 ....		\$DILF2CK	"B'00010000'" Check DWAs



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		\$DILF2GM	"B'00001000'" GETMAIN'ed DWA
		.... .1..		\$DILF2FN	"B'00000100'" Don't queue a DWA if flush unsuccessful
		.... ..1.		\$DILF2FP	"B'00000010'" Flush only DWAs for this specific PCE
		.... ...1		\$DILF2FT	"B'00000001'" Flush only DWAs for this PCE type
8	(8)	BITSTRING	4	\$DILIMME	Immed instruction
MEMBER NAME --> \$DTR ROUTINE(S) ---> \$DISTERR in HASPRAS MACRO(S) -----> \$DISTERR Disasterous error routine inline parameter list					
4	(4)	BITSTRING	1	\$DTRFLG1	General flag 1
		1... ....		\$DTRRJQE	"B'10000000'" JQE= specified
		.1.. ....		\$DTRRJCT	"B'01000000'" JCT= specified
		..1. ....		\$DTRRND	"B'00100000'" DUMP=NO specified
		...1 ....		\$DTRRNAM	"B'00010000'" RECVOPTS= specified
		.... 1...		\$DTRRSIG	"B'00001000'" SIGRCD= specified
		.... .1..		\$DTRMQTR	"B'00000100'" MQTR= specified
		.... ..1.		\$DTRMASD	"B'00000010'" DUMP=MAS specified
5	(5)	BITSTRING	1		Reserved
6	(6)	CHARACTER	8	\$DTRNAME	Name of \$DISTERR
14	(E)	CHARACTER	8	\$DTRSECT	Name of CSECT
22	(16)	CHARACTER	8	\$DTRSEQ	Sequence number of \$DISTERR
30	(1E)	CHARACTER	8	\$DTRRECV	RECVOPTS= value
MEMBER NAME --> \$DOGJAX ROUTINE(S) ---> \$DOGJAX in HASPSERV MACRO(S) -----> \$DOGJAX					
4	(4)	BITSTRING	1	\$DJXREQ	Action/request:
4	(4)	X'1'	0	\$DJXRQCR	"1" ACTION=CREATE
4	(4)	X'2'	0	\$DJXRQFE	"2" ACTION=FETCH
4	(4)	X'3'	0	\$DJXRQCK	"3" ACTION=CKPT
4	(4)	X'4'	0	\$DJXRQRT	"4" ACTION=RETURN
4	(4)	X'5'	0	\$DJXRQFR	"5" ACTION=FREE
4	(4)	X'6'	0	\$DJXRQRS	"6" ACTION=RESET
5	(5)	BITSTRING	1	\$DJXFLGS	\$DOGJAX options:
		1... ....		\$DJXFWT	"B'10000000'" WAIT=YES
		.1.. ....		\$DJXFJAX	"B'01000000'" JAX addr supplied in R1
		..1. ....		\$DJXFNCK	"B'00100000'" do not checkpoint changes
MEMBER NAME --> \$DOGJOE ROUTINE(S) ---> \$DOGJOE MACRO(S) -----> \$DOGJOE Deliver or Get JOE routine's inline parameter list					
0	(0)	SIGNED	1	\$DOVERS	Version of parameter list
0	(0)	X'1'	0	\$DOCVBR	"1" Parameter list version
1	(1)	SIGNED	1	\$DOACT	Action requested
1	(1)	X'0'	0	\$DOAFETN	"0" Fetch next JOE



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1	(1)	X'4'	0	\$DOAFET	"4" Fetch JOE
1	(1)	X'8'	0	\$DOARET	"8" RETURN JOE (CKPT and Rel)
1	(1)	X'C'	0	\$DOACKPT	"12" CKPT JOE (CKPT, *no* Rel)
1	(1)	X'10'	0	\$DOAFLD	"16" CKPTFLD
1	(1)	X'14'	0	\$DOAREFR	"20" Refresh JOA
1	(1)	X'18'	0	\$DOAFREE	"24" Free JOA
1	(1)	X'1C'	0	\$DOAQLOK	"28" QUERYLOCK
1	(1)	X'20'	0	\$DOASETA	"32" SETACCESS
2	(2)	BITSTRING	1	\$DOFLAG2	More \$DOGJOE option flags
		1... ....		\$DO2DSRV	"B'10000000'" DSERV provided
		.1.. ....		\$DO2SPCL	"B'01000000'" Special call (no BERT lock)
		..1. ....		\$DO2READ	"B'00100000'" READ access requested
		...1 ....		\$DO2NWAT	"B'00010000'" WAIT=NO
		.... 1...		\$DO2WDEF	"B'00001000'" DEFER option on WAIT=NO
		.... .1..		\$DO2CONF	"B'00000100'" Conditional FREE
		.... ..1.		\$DO2NROL	"B'00000010'" Skip any \$ROLL trace
		.... ...1		\$DO2RCVY	"B'00000001'" ACTION=(FREE,RECOVERY)
3	(3)	BITSTRING	1	\$DOFLAG3	More \$DOGJOE option flags
		1... ....		\$DO3RELE	"B'10000000'" Release BERT lock
		.1.. ....		\$DO3KEEP	"B'01000000'" Keep memory for JOA
		..1. ....		\$DO3UCON	"B'00100000'" Unconditional return for ACTION=RETURN
		...1 ....		\$DO3NUPD	"B'00010000'" RETURN,NOUPDATE
		.... 1...		\$DO3QLOB	"B'00001000'" QUERYLOCK,OBTAINABLE
		.... ..1.		\$DO3MAX	"B'00000010'" ACTION=(CKPT,MAXJOA)
		.... ...1		\$DO3POST	"B'00000001'" POST=YES for ACTION=CKPT
4	(4)	BITSTRING	1	\$DOFLAG4	More \$DOGJOE option flags
		.1.. ....		\$DO4#PSY	"B'01000000'" #POST=YES
		..1. ....		\$DO4KPJW	"B'00100000'" #POST=(,KEEPJWEL)
		...1 ....		\$DO4MNJT	"B'00010000'" #POST=(,JOETIME)
5	(5)	BITSTRING	1	\$DOFLAG5	More \$DOGJOE option flags
6	(6)	SIGNED	2	\$DOACTOR(0)	Action specific fields
6	(6)	SIGNED	2	\$DOCHAIN	Offset of chaining field (present only if \$DOFETN)
6	(6)	SIGNED	2	\$DOCKOFF	Field offset and length
8	(8)	SIGNED	2	\$DOCKLEN	for CKPTFLD request (present only if \$DOAFLD)
8	(8)	X'A'	0	\$DOLEN	"*-PARMLIST" Length of \$DOGJOE MF=L
MEMBER NAME --> \$DOGJOE ROUTINE(S) ---> \$DOGJOE MACRO(S) -----> \$DOGJOE Deliver or Get JOE routine's inline parameter list					
0	(0)	SIGNED	1	\$DJACT	Action requested
0	(0)	X'0'	0	\$DJAFETN	"0" Fetch next JOE
0	(0)	X'4'	0	\$DJAFET	"4" Fetch JOE
0	(0)	X'8'	0	\$DJALOCK	"8" Manage BERT lock



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
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... ....		\$DJ2DSRV	"B'10000000'" DSERV provided
		.1.. ....		\$DJ2SPCL	"B'01000000'" Special call (no BERT lock)
		..1. ....		\$DJ2KEEP	"B'00100000'" Keep memory for JQA
		...1 ....		\$DJ2NWAT	"B'00010000'" WAIT=NO or QUERYLOCK,OBTAINABLE
		.... 1...		\$DJ2CONF	"B'00001000'" Conditional FREE
		.... .1..		\$DJ2POST	"B'00000100'" POST=YES for ACTION=CKPT
		.... ..1.		\$DJ2UCON	"B'00000010'" Unconditional return for ACTION=RETURN
		.... ...1		\$DJ2URFR	"B'00000001'" Unconditional refresh
2	(2)	BITSTRING	1	\$DJFLAG3	More \$DOGJQE option flags
		1... ....		\$DJ3READ	"B'10000000'" READ access requested
		.1.. ....		\$DJ3RELE	"B'01000000'" Release BERT lock
		..1. ....		\$DJ3WDEF	"B'00100000'" Defer RETURN if required
		...1 ....		\$DJ3NUPD	"B'00010000'" RETURN,NOUPDATE
		.... 1...		\$DJ3QPSY	"B'00001000'" QPOST=YES
		.... .1..		\$DJ3#PSY	"B'00000100'" #POST=YES
		.... ..1.		\$DJ3MAX	"B'00000010'" ACTION=(CKPT,MAXJQA)
		.... ...1		\$DJ3RCVY	"B'00000001'" ACTION=(FREE,RECOVERY)
3	(3)	SIGNED	1	\$DJVERS	Version of parameter list
3	(3)	X'2'	0	\$DJCVER	"2" Parameter list version
4	(4)	BITSTRING	1	\$DJFLAG4	More \$DOGJQE option flags
5	(5)	BITSTRING	1	\$DJFLAG5	More \$DOGJQE option flags
6	(6)	SIGNED	2	\$DJCHAIN	Offset of chaining field (present only if \$DJFETN)
6	(6)	X'8'	0	\$DJLEN	"*-PARMLIST" Length of \$DOGJQE MF=L
MEMBER NAME --> \$DOGPRA ROUTINE(S) ---> \$DOGPRA in HASPSERV MACRO(S) -----> \$DOGPRA					
4	(4)	BITSTRING	1	\$DPRREQ	Action/request:
4	(4)	X'1'	0	\$DPRRQCR	"1" ACTION=CREATE
4	(4)	X'2'	0	\$DPRRQFE	"2" ACTION=FETCH
4	(4)	X'3'	0	\$DPRRQCK	"3" ACTION=CKPT
4	(4)	X'4'	0	\$DPRRQRT	"4" ACTION=RETURN
4	(4)	X'5'	0	\$DPRRQFR	"5" ACTION=FREE
4	(4)	X'6'	0	\$DPRRQRS	"6" ACTION=RESET
4	(4)	X'7'	0	\$DPRRNA	"7" ACTION=RESET_INACTIVE



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
5	(5)	BITSTRING	1	\$DPRFLGS	\$DOGPRA options:
		1... ..		\$DPRFWT	"B'10000000" WAIT=YES
		.1... ..		\$DPRFPRA	"B'01000000" PRV addr supplied in R1
		..1. ....		\$DPRFNCK	"B'00100000" do not checkpoint changes
		...1 ....		\$DPREJQE	"B'00010000" Reset JQE resource
		.... 1...		\$DPREJOE	"B'00001000" Reset JOE resource
		.... .1..		\$DPREBER	"B'00000100" Reset BERT resource
		.... ..1.		\$DPRETRK	"B'00000010" Reset SPOOL track resource
		.... ...1		\$DPREMSG	"B'00000001" Cut message on reset
6	(6)	BITSTRING	1	\$DPRFLG2	More \$DOGPRA option flags
		1... ..		\$DPRSMAL	"B'10000000" Small environment on create
MEMBER NAME --> \$DST ROUTINE(S) ---> USERDEST IN HASCSIRQ MACRO(S) -----> \$DEST DESTINATION CONVERSION ROUTINE'S INLINE PARAMETER LIST.					
4	(4)	BITSTRING	1	\$DSTFLG1	\$DEST MACRO OPTION FLAGS
		1... ..		\$DSTCHAR	"B'10000000" CHARACTER INPUT
		.1... ..		\$DSTRDT	"B'01000000" DESTIDs allowed
		..1. ....		\$DSTGNRC	"B'00100000" Generic userids allowed at local node
		...1 ....		\$DST1EXP	"B'00010000" EXPLICIT=YES was specified
		.... 1...		\$DSTNRP	"B'00001000" RMTPOOL=NO WAS REQUESTED
		.... .1..		\$DSTPRIM	"B'00000100" PRIMARY=YES, RETURN NODENM
		.... ..1.		\$DSTUSER	"B'00000010" USERID SUPPLIED OR DESIRED
		.... ...1		\$DSTNSPR	"B'00000001" DO NOT SUPPRESS NODE FOR LOCAL BINARY TO CHARACTER CONV
5	(5)	BITSTRING	1	\$DSTFLG2	\$DEST macro options flag 2
		1... ..		\$DST2IGN	"B'10000000" NODENAME=IGNORED
		.1... ..		\$DST2DFM	"B'01000000" DLMFAIL=YES
		..1. ....		\$DST2NUS	"B'00100000" DONTUSE= was specified
		...1 ....		\$DST2IPY	"B'00010000" IPFORM=YES (or LONG) was specified
		.... 1...		\$DST2IGS	"B'00001000" SHOWUSER=IGNORED
		.... .1..		\$DST2IPD	"B'00000100" IPFORM=SHORT was specified
		.... ..1.		\$DST2NVU	"B'00000010" VALUSR=NO was specified
MEMBER NAME --> \$DSD ROUTINE(S) ---> \$DESTDYN IN HASPDYN MACRO(S) -----> \$DESTDYN DESTINATION DEFINITION ROUTINE'S INLINE PARAMETER LIST.					
4	(4)	BITSTRING	1	\$DSDFLG1	\$DESTDYN MACRO OPTION FLAGS (VALUES ARE RDT1NODE/RDT1DEST)
5	(5)	BITSTRING	1	\$DSDFLG2	\$DESTDYN MACRO OPTION FLAG 2
		1... ..		\$DSD2FOR	"B'10000000" Force NODAL destination



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
MEMBER NAME --> \$DGB ROUTINE(S) ---> \$DOGBERT in HASPCKPT BERTREAD in HASCSRIC MACRO(S) -----> \$DOGBERT BERT Deliver and Get services inline parm list					
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
5	(5)	BITSTRING	1	\$DGBFLAG	General parameter flags
		1... ....		\$DGBWAIT	"B'10000000'" \$WAIT is allowed
		.1.. ....		\$DGBQSUS	"B'01000000'" Get the queues
		..1. ....		\$DGBUPDT	"B'00100000'" Update access needed
		...1 ....		\$DGBNAME	"B'00010000'" NAME= was passed
		.... 1...		\$DGBTOKN	"B'00001000'" TOKEN= was passed
		.... .1..		\$DGBSPEC	"B'00000100'" SPECIAL=YES was specified
		.... ..1.		\$DGBNUPD	"B'00000010'" No write update requested
		.... ...1		\$DGBNRDD	"B'00000001'" No read data requested
The following must match the values in BRTTYPE in the \$BERT control block.					
6	(6)	SIGNED	1	\$DGBCB	Control block type
6	(6)	X'0'	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
		1111 1111		\$DGBDYN	"X'FF'" Dynamically defined type
7	(7)	BITSTRING	1	\$DGBFLG2	Second flag byte
		1... ....		\$DGB2CRE	"B'10000000'" ACTION=(,CREATE) spec
		.1.. ....		\$DGB2UNK	"B'01000000'" CB type unknown
		..1. ....		\$DGB2PAD	"B'00100000'" ACTION=(CKPT,PAD)
		...1 ....		\$DGB2PBE	"B'00010000'" Flag bytes 1 and 2 in PBEDGBF1 & PBEDGBF2
		.... 1...		\$DGB2NEV	"B'00001000'" MOREBERTS=NEVER
		.... .1..		\$DGB2UNC	"B'00000100'" ACTION=(CKPT,UNCOND)
The following field is only generated for dynamic BERT types					
8	(8)	CHARACTER	8	\$DGBTNAM	BERT type in EBCDIC
MEMBER NAME --> \$DGD ROUTINE(S) ---> \$DOGDJB routine in HASPJQS ROUTINE(S) ---> DJBREAD routine in HASCSRIC MACRO(S) -----> \$DOGDJB Deliver Or Get Duplicate Jobname Block					



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	1	\$DGD1FLG1	\$DOGDJB Macro options
		1... ..		\$DGD1FET	"B'10000000'" ACTION=FETCH
		.1... ..		\$DGD1FTN	"B'01000000'" ACTION=FETCHNEXT
		..1... ..		\$DGD1UPD	"B'00100000'" ACTION=(...,UPDATE)
		...1... ..		\$DGD1NUP	"B'00010000'" ACTION=(...,NOUPDATE)
		.... 1...		\$DGD1FRE	"B'00001000'" ACTION=FREE
		.... .1..		\$DGD1BRO	"B'00000100'" MOREBERTS=NEVER
		.... ..1.		\$DGD1CRE	"B'00000010'" ACTION=(FETCH,CREATE)
		.... ...1		\$DGD1RES	"B'00000001'" ACTION=RESET
5	(5)	BITSTRING	1	\$DGD2FLG2	\$DOGDJB Macro options
		1... ..		\$DGD2ACC	"B'10000000'" ACTION=SETACCESS
		.1... ..		\$DGD2CAC	"B'01000000'" CACHE=YES
		..1... ..		\$DGD2WAI	"B'00100000'" WAIT=NO
		...1... ..		\$DGD2FST	"B'00010000'" Fast lookup eligible
MEMBER NAME --> \$DGG ROUTINE(S) ---> \$DOGGRP routine in HASPXEQ MACRO(S) -----> \$DOGGRP Deliver Or Get class group in support of 8 character jobclass.					
4	(4)	BITSTRING	1	\$DGG1FLG1	\$DOGGRP Macro options
		1... ..		\$DGG1CRE	"B'10000000'" ACTION=(FETCH,CREATE)
		.1... ..		\$DGG1RED	"B'01000000'" ACTION=(FETCH,READ)
		..1... ..		\$DGG1FET	"B'00100000'" ACTION=(FETCH...) UPDATE
		...1... ..		\$DGG1UPD	"B'00010000'" ACTION=(RETURN,UPDATE)
		.... 1...		\$DGG1NUP	"B'00001000'" ACTION=(RETURN,NOUPDATE)
		.... .1..		\$DGG1FRE	"B'00000100'" ACTION=FREE
		.... ..1.		\$DGG1CKP	"B'00000010'" ACTION=CKPT
		.... ...1		\$DGG1WAI	"B'00000001'" WAIT=NO
5	(5)	BITSTRING	1	\$DGG2FLG2	\$DOGGRP Macro options
		1... ..		\$DGG2FTN	"B'10000000'" ACTION=FETCHNEXT
MEMBER NAME --> \$DGV ROUTINE(S) ---> \$DOGMIG routine in HASPSPOL MACRO(S) -----> \$DOGMIG Deliver Or Get temporary migration object in support of spool volume migration.					
4	(4)	BITSTRING	1	\$DGV1FLG1	\$DOGMIG Macro options
		1... ..		\$DGV1FET	"B'10000000'" ACTION=(FETCH,UPDATE)
		.1... ..		\$DGV1CRE	"B'01000000'" ACTION=(FETCH,CREATE)
		..1... ..		\$DGV1RED	"B'00100000'" ACTION=(FETCH,READ)
		...1... ..		\$DGV1UPD	"B'00010000'" ACTION=(RETURN,UPDATE)
		.... 1...		\$DGV1NUP	"B'00001000'" ACTION=(RETURN,NOUPDATE)
		.... .1..		\$DGV1FRE	"B'00000100'" ACTION=FREE
		.... ..1.		\$DGV1CKP	"B'00000010'" ACTION=CKPT
		.... ...1		\$DGV1WAI	"B'00000001'" WAIT=NO



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
MEMBER NAME --> \$DGT ROUTINE(S) ---> \$DOGCAT routine in HASPXEQ MACRO(S) -----> \$DOGCAT Deliver Or Get Class Attribute Table					
4	(4)	BITSTRING	1	\$DGTFLG1	\$DOGCAT Macro options
		1... ....		\$DGT1FET	"B'10000000'" ACTION=FETCH
		.1.. ....		\$DGT1FTN	"B'01000000'" ACTION=FETCHNEXT
		..1. ....		\$DGT1UPD	"B'00100000'" ACTION=(...,UPDATE)
		.... .1..		\$DGT1AQS	"B'00000100'" ALLQUES=YES specified
		.... ..1.		\$DGT1AQR	"B'00000010'" ALLQUES=(YES,REBLD)
		.... ...1		\$DGT1TYP	"B'00000001'" TYPE= was specified
5	(5)	BITSTRING	1	\$DGTFLG2	\$DOGCAT Macro options
		1... ....		\$DGT2BRO	"B'10000000'" MOREBERTS=NEVER
		.1.. ....		\$DGT2WAI	"B'01000000'" WAIT=NO
		..1. ....		\$DGT2JBC	"B'00100000'" JOBCCLASS= was specified
		...1 ....		\$DGT2CRE	"B'00010000'" ACTION=(FETCH,CREATE)
		.... 1...		\$DGT2FRE	"B'00001000'" ACTION=FREE
		.... .1..		\$DGT2CPY	"B'00000100'" GETCOPY was specified.
		.... ..1.		\$DGT2BCH	"B'00000010'" BATCHONLY=YES specified
MEMBER NAME --> \$DGW ROUTINE(S) ---> \$DOGWSCQ routine in HASPXEQ MACRO(S) -----> \$DOGWSCQ Deliver Or Get Service Class Queue					
4	(4)	BITSTRING	1	\$DGWFLG1	\$DOGWSCQ Macro options
		1... ....		\$DGW1FET	"B'10000000'" ACTION=FETCH
		.1.. ....		\$DGW1FTN	"B'01000000'" ACTION=FETCHNEXT
		..1. ....		\$DGW1UPD	"B'00100000'" ACTION=(...,UPDATE)
		...1 ....		\$DGW1NUP	"B'00010000'" ACTION=(...,NOUPDATE)
		.... 1...		\$DGW1FRE	"B'00001000'" ACTION=FREE
		.... .1..		\$DGW1CKP	"B'00000100'" ACTION=CKPT
		.... ..1.		\$DGW1CRE	"B'00000010'" ACTION=(FETCH,CREATE)
		.... ...1		\$DGW1BRO	"B'00000001'" MOREBERTS=NEVER
5	(5)	BITSTRING	1	\$DGWFLG2	\$DOGWSCQ Macro options
		1... ....		\$DGW2WAI	"B'10000000'" WAIT=NO
MEMBER NAME --> \$DSN ROUTINE(S) ---> DAATSET SET NAME VERIFICATION IN HASPSRDS MACRO(S) -----> \$DSNVFY DESTINATION DEFINITION ROUTINE'S INLINE PARAMETER LIST.					
		.... ....		DSNVALL	"B'00000000'" COMPLETE DATASET NAME VERIFICATION
		1... ....		DSNONLY	"B'10000000'" RESERVE WORD ONLY VERIFICATION
MEMBER NAME --> \$DSR ROUTINE(S) ---> GOFDSERV ROUTINE IN HASCSRIC MACRO(S) -----> \$DSERV OBTAIN OR RELEASE A CHECKPOINT VERSION					
4	(4)	BITSTRING	1	\$DSRFLG1	Flag byte 1
		1... ....		\$DSR1GET	"B'10000000'" GET request



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1.. ....		\$DSR1FRE	"B'01000000" FREE request
		..1. ....		\$DSR1LIV	"B'00100000" Use "live" version
		...1 ....		\$DSR1RFR	"B'00010000" Refresh non checkpoint resident data pointers
MEMBER NAME --> \$DV ROUTINE(S) ---> CNVDEVID ROUTINE IN HASCSISC MACRO(S) -----> \$DVIDBLD CONVERT A DEVID TO A DEVICE NAME					
4	(4)	BITSTRING	1	\$DVFLG1	Flags
		1... ....		\$DV1JQE	"B'10000000" JQE address passed
		.1.. ....		\$DV1CHAR	"B'01000000" CONV=CHAR specified
5	(5)	SIGNED	1	\$DVLENG	Length of device name field
MEMBER NAME --> \$EST ROUTINE(S) ---> SSISESTA in HASCLINK MACRO(S) -----> \$ESTAE (assembler) \$ESTAE (PL/X) JES2 Establish ESTAE Inline Parameter List.					
4	(4)	BITSTRING	1	\$ESTFCN	Requested function
		1... ....		\$ESTCRAT	"B'10000000" Create
		.1.. ....		\$ESTDLET	"B'01000000" Delete
5	(5)	BITSTRING	1	\$ESTFLAG	Flags
		1... ....		\$ESTFNDM	"B'10000000" Do not capture dump
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
MEMBER NAME --> EXI ROUTINE(S) ---> \$JESEFF IN HASPNUC, USERSUB IN HASCSIRQ MACRO(S) -----> \$EXIT JES2 EXIT EFFECTOR'S INLINE PARAMETER LIST.					
4	(4)	CHARACTER	8	EXITNAME	LABEL ON \$EXIT OR CSECT NAME IF NO LABEL WAS SPECIFIED
12	(C)	BITSTRING	1	EXITFLGS	EXIT FLAGS
The bits EXITUSER, EXITSTSK, EXITJES2 and EXITFSS have a one to one correspondence to the following bits in \$TTE : TDXFENVU, TDXFENVVS, TDXFENVJ and TDXFENVF. These bits MUST remain in the currently defined order.					
		1... ....		EXITTR	"B'10000000" EXIT EFFECTOR SHOULD DO TRACE
		.1.. ....		EXITUSER	"B'01000000" USER ENVIRONMENT
		..1. ....		EXITSTSK	"B'00100000" SUBTASK ENVIRONMENT
		...1 ....		EXITJES2	"B'00010000" JES2 ENVIRONMENT
		.... 1...		EXITFSS	"B'00001000" FSS ENVIRONMENT
		.... .1..		EXITXPL	"B'00000100" \$XPL passed to exit
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



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
MEMBER NAME --> \$FAC ROUTINE(S) ---> \$FMTSACC in HASMIPSV MACRO(S) -----> \$FMTSACC and \$FMTSFMT \$FMTSACC and \$FMTSFMT inline parameter list					
4	(4)	CHARACTER	8	\$FACSECT	Control section name
12	(C)	CHARACTER	8	\$FACSEQF	Invoking sequence number
12	(C)	X'4'	0	\$FACMOSQ	"\$FACSECT,*-\$FACSECT,C'C'" Module/ sequence
MEMBER NAME --> \$FB ROUTINE(S) ---> \$MLTFBUF IN HASCLINK MACRO(S) -----> \$FREEBUF TYPE=MULT \$FREEBUF'S INLINE PARAMETER LIST					
4	(4)	BITSTRING	1	\$FBFLAG1	\$FREEBUF OPTION FLAG 1
		1... ....		\$FB1PROT	"B'10000000'" BUFFER TYPE=PROT
		..1. ....		\$FB1HOLD	"B'00100000'" BUFFER TYPE=HOLD
5	(5)	BITSTRING	1		Reserved
6	(6)	SIGNED	2	\$FBSTORP	Buffer chain offset
Member name --> \$FM Routine(s) ---> \$FBUFRTN in HASCLINK Macro(s) -----> \$CALL \$FBUFRTN,INLINE= \$FBUFRTN'S inline parameter list					
4	(4)	BITSTRING	1	\$FMFLAG1	\$FBUFRTN option FLAG 1
		1... ....		\$FM1\$ERR	"B'10000000'" Issue \$ERROR macro if unfreed buffers remain
		.1.. ....		\$FM1CLOS	"B'01000000'" Called out of DS CLOSE
MEMBER NAME --> \$FBM ROUTINE(S) ---> \$FMTBLDM in HASMIPSV MACRO(S) -----> \$FMTBLDM \$FMTBLDM inline parameter list					
4	(4)	BITSTRING	1	\$FBMFLG1	Flag byte 1
		1... ....		\$FBM1INT	"B'10000000'" Initialize message
		.1.. ....		\$FBM1ADD	"B'01000000'" Add text to message
		..1. ....		\$FBM1LAS	"B'00100000'" Last (issue message)
		...1 ....		\$FBM1MFL	"B'00010000'" Text is list form msg
		.... 1...		\$FBM1TTB	"B'00001000'" Truncate trailing blanks
		.... .1..		\$FBM1CNV	"B'00000100'" Data conversion or a standard text string if \$FBM1MFL is also set
		.... ..1.		\$FBM1ABB	"B'00000010'" Add blank before text/dat
		.... ...1		\$FBM1ABA	"B'00000001'" Add blank after text/ data
5	(5)	BITSTRING	1	\$FBMFLG2	Flag byte 2
		1... ....		\$FBM2RES	"B'10000000'" Reset message
		.1.. ....		\$FBM2MTB	"B'01000000'" Process \$FMTMTAB
		..1. ....		\$FBM2WID	"B'00100000'" Use wide message width
		...1 ....		\$FBM2IVA	"B'00010000'" Internal request via atab
		.... 1...		\$FBM2IFI	"B'00001000'" Internal field info req



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... .1..		\$FBM2INA	"B'00000100'" Internal data specified
		.... ..1.		\$FBM2ADJ	"B'00000010'" ADJUST= specified
		.... ...1		\$FBM2TTZ	"B'00000001'" Truncate trailing zeroes
6	(6)	ADDRESS	1	\$FBMCTYP	Conversion or std text type
----- Conversion types -----					
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	\$FBMCTEP	"6" CHAR
6	(6)	X'7'	0	\$FBMCTHX	"7" HEX
6	(6)	X'8'	0	\$FBMCTRH	"8" HEXRAW
6	(6)	X'9'	0	\$FBMCTKM	"9" KM
6	(6)	X'A'	0	\$FBMCTOF	"10" OFFSET
6	(6)	X'B'	0	\$FBMCTSI	"11" SIGNINT
6	(6)	X'C'	0	\$FBMCTSR	"12" SIGNINTRAW
6	(6)	X'D'	0	\$FBMCTST	"13" STCK
6	(6)	X'E'	0	\$FBMCTSE	"14" STCKE
6	(6)	X'F'	0	\$FBMCTSM	"15" STCKE_MICRO
6	(6)	X'10'	0	\$FBMCTUI	"16" UNSIGNINT
6	(6)	X'11'	0	\$FBMCTUR	"17" UNSIGNINTRAW
6	(6)	X'12'	0	\$FBMCTA8	"18" ADDRESS64
----- Standard text strings -----					
6	(6)	X'1'	0	\$FBMCTPN	"1" NOTICE msg prefix
6	(6)	X'2'	0	\$FBMCTPW	"2" WARNING msg prefix
6	(6)	X'3'	0	\$FBMCTPE	"3" ERROR msg prefix
7	(7)	BITSTRING	1	\$FBMID	Parameter list ID
		1... ..1		\$FBMIDV	"X'81'" Parm list verification val
8	(8)	CHARACTER	8	\$FBMSECT	Control section name
16	(10)	CHARACTER	8	\$FBMSEQF	Invoking sequence number
16	(10)	X'14'	0	\$FBMPLN	"*-PARMSTRT" Length of parms to trace
MEMBER NAME --> \$FDI ROUTINE(S) ---> \$FMTDIAL in HASMIPSV MACRO(S) -----> \$FMTDIAL \$FMTDIAL inline parameter list					
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



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
MEMBER NAME --> \$FEV ROUTINE(S) ---> \$FMTENV in HASMIPSV MACRO(S) -----> \$FMTENV \$FMTENV inline parameter list					
4	(4)	ADDRESS	1	\$FEVPVER	\$FMTENV parm list version (Set in \$FMTENV macro expansion and checked in service routine)
5	(5)	ADDRESS	1	\$FEVREQ	Request type
5	(5)	X'1'	0	\$FEVRCU	"1" CREATE request
5	(5)	X'2'	0	\$FEVRDU	"2" DELETE request
5	(5)	X'3'	0	\$FEVRCC	"3" COND_CREATE request
5	(5)	X'4'	0	\$FEVRDC	"4" COND_DELETE request
6	(6)	BITSTRING	1	\$FEVUSE	USE flags - Caution; bit tests use both TM and CLI
		1... ....		\$FEVUIVE	"B'10000000" Used as IPCS VERBEXIT
		.1.. ....		\$FEVUIFR	"B'01000000" Used as IPCS FORMAT rtn
		..1. ....		\$FEVUJDR	"B'00100000" Used as JES2 DISPLAY_RTN
		...1 ....		\$FEVUNUL	"B'00010000" Null USE
7	(7)	BITSTRING	1	\$FEVFLG1	Flag byte 1
		1... ....		\$FEV1CSA	"B'10000000" Issue cond \$FMTSETA
8	(8)	ADDRESS	2	\$FEVWVER	Current \$IPCSWRK version #
10	(A)	CHARACTER	8	\$FEVSECT	Control section name
18	(12)	CHARACTER	8	\$FEVSEQF	Invoking sequence number
18	(12)	X'A'	0	\$FEVMOSQ	"\$FEVSECT,*-\$FEVSECT,C'C'" Module/sequence
MEMBER NAME --> \$FGA ROUTINE(S) ---> \$FMTGADR in HASMIPSV MACRO(S) -----> \$FMTGADR \$FMTGADR inline parameter list					
4	(4)	BITSTRING	1	\$FGAFLG1	Flag byte 1
		1... ....		\$FGA1LUP	"B'10000000" Lookup a cb address
		.1.. ....		\$FGA1GNS	"B'01000000" Setup for a cb set
		..1. ....		\$FGA1GTN	"B'00100000" Get next cb in a set
4	(4)	X'E0'	0	\$FGA1STD	"\$FGA1LUP+\$FGA1GNS+\$FGA1GTN" Standard call if any bit on
		...1 ....		\$FGA1EYE	"B'00010000" Verify eye (cont if err)
		.... 1...		\$FGA1ZPM	"B'00001000" Issue msg if zero pointer
		.... .1..		\$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
MEMBER NAME --> \$FGF ROUTINE(S) ---> \$FMTGFLD in HASMIPSV MACRO(S) -----> \$FMTGFLD \$FMTGFLD inline parameter list					



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	CHARACTER	8	\$FGFSECT	Control section name
12	(C)	CHARACTER	8	\$FGFSEQF	Invoking sequence number
MEMBER NAME --> \$FID ROUTINE(S) ---> FIFODEQ in HASCSRIC MACRO(S) -----> \$FIFODEQ \$FIFODEQ inline parameter list					
4	(4)	BITSTRING	1	\$FIDFLG1	Flag byte 1
		1... ..		\$FID1CNT	"B'10000000'" COUNT= specified
		.1.. ..		\$FID1ABN	"B'01000000'" ABENDERR=YES
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	ADDRESS	2	\$FIDCOFF	Chain field offset
MEMBER NAME --> \$FIE ROUTINE(S) ---> FIFOEQ in HASCSRIC MACRO(S) -----> \$FIFOEQ \$FIFOEQ inline parameter list					
4	(4)	BITSTRING	1	\$FIEFLG1	Flag byte 1
		1... ..		\$FIE1CNT	"B'10000000'" COUNT= specified
		.1.. ..		\$FIE1ABN	"B'01000000'" ABENDERR=YES
		..1. ....		\$FIE1HEA	"B'00100000'" Add element to head
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	ADDRESS	2	\$FIECOFF	Chain field offset
MEMBER NAME --> \$FIG ROUTINE(S) ---> FIFOGTQ in HASCSRIC MACRO(S) -----> \$FIFOGTQ \$FIFOGTQ inline parameter list					
4	(4)	BITSTRING	1	\$FIGFLG1	Flag byte 1
		1... ..		\$FIG1CNT	"B'10000000'" COUNT= specified
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	ADDRESS	2	\$FIGCOFF	Chain field offset
MEMBER NAME --> \$FLE ROUTINE(S) ---> \$FMTLERR in HASMIPSV MACRO(S) -----> \$FMTLERR \$FMTLERR inline parameter list					
4	(4)	BITSTRING	1	\$FLEFLG1	Flag byte 1
		1... ..		\$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
MEMBER NAME --> \$FMS ROUTINE(S) ---> \$FMTMSG in HASMIPSV MACRO(S) -----> \$FMTMSG \$FMTMSG inline parameter list					
4	(4)	BITSTRING	1	\$FMSFLG1	Flag byte 1
		1... ..		\$FMS1WID	"B'10000000'" Wide message width
		.1.. ..		\$FMS1BLN	"B'01000000'" Display blank line
		..1. ....		\$FMS1CBL	"B'00100000'" Conditional blank line



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1 ....		\$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	"*-PARMSTRT" Length of parms to trace
MEMBER NAME --> \$FPR ROUTINE(S) ---> \$FMTPROC in HASMIPSV MACRO(S) -----> \$FMTPROC \$FMTPROC inline parameter list					
4	(4)	BITSTRING	1	\$FPRFLG1	Flag byte 1
		1... ....		\$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
MEMBER NAME --> \$FRE ROUTINE(S) ---> \$FREJLOK in HASPJQS MACRO(S) -----> \$FREJLOK \$FREJLOK inline parameter list for TYPE=JOB					
4	(4)	BITSTRING	1	\$FREFLG1	\$FREJLOK option flag
		1... ....		\$FRE1NW	"B'10000000'" Cannot \$WAIT
		.1.. ....		\$FRE1NTR	"B'01000000'" Do not take trace
		..1. ....		\$FRE1JQA	"B'00100000'" Free JQA
MEMBER NAME --> \$FSA ROUTINE(S) ---> \$FMTSETA in HASMIPSV MACRO(S) -----> \$FMTSETA \$FMTSETA inline parameter list					
4	(4)	CHARACTER	8	\$FSASECT	Control section name
12	(C)	CHARACTER	8	\$FSASEQF	Invoking sequence number
12	(C)	X'4'	0	\$FSAMOSQ	"\$FSASECT,*-\$FSASECT,C'C'" Module/sequence
MEMBER NAME --> \$FST ROUTINE(S) ---> \$FMTSTOR in HASMIPSV MACRO(S) -----> \$FMTSTOR \$FMTSTOR inline parameter list					
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
		1... ....		\$FST2FAD	"B'10000000'" ADDR specified on free
		.1.. ....		\$FST2CTS	"B'01000000'" *CTAB_WORK
		..1. ....		\$FST2CTM	"B'00100000'" *CTAB_WORK_LEVEL
		...1 ....		\$FST2PTS	"B'00010000'" *PARENT_CTAB_WORK
		.... 1...		\$FST2PTM	"B'00001000'" *PARENT_CTAB_WORK_LEVEL
		.111 1...		\$FST2TAB	"B'01111000'" Ctab related request
6	(6)	CHARACTER	8	\$FSTSECT	Control section name
14	(E)	CHARACTER	8	\$FSTSEQF	Invoking sequence number



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
MEMBER NAME --> \$FTB ROUTINE(S) ---> \$FRETBUF IN HASCNJAS MACRO(S) -----> \$FRETBUF \$FRETBUF INLINE PARAMETER LIST					
4	(4)	BITSTRING	1	\$FTBFLG1	\$FRETBUF option flag
	1... ....			\$FTB1CHN	"B'10000000" CHAIN=YES specified
Member name --> \$FTR Routine(s) ---> \$FRETRE in HASCLINK MACRO(s) -----> \$FRETRE \$FRETRE Inline parameter list					
4	(4)	BITSTRING	1	\$FTRFLG1	\$FRETRE option flag
	1... ....			\$FTR1IOW	"B'10000000" WAITIO=YES specified
MEMBER NAME --> \$FUC ROUTINE(S) ---> \$FREUCBS IN HASPNUC MACRO(S) -----> \$FREUCBS \$FREUCBS' INLINE PARAMETER LIST					
4	(4)	BITSTRING	1	\$FUCFLG1	\$FREUCBS OPTION FLAG
	1... ....			\$FUC1UNP	"B'10000000" UNPIN=YES specified
MEMBER NAME --> \$GTA ROUTINE(S) ---> \$GETABLE in HASPTABS MACRO(S) -----> \$GETABLE \$GETABLE routine inline parameter list					
4	(4)	BITSTRING	1	\$GTATYPE	Table type (See \$MITETBL for valid types)
5	(5)	BITSTRING	1	\$GTAFLG1	Flag byte
	1... ....			\$GTAH1ST	"B'10000000" Run HASP tables first
MEMBER NAME --> \$GTB ROUTINE(S) ---> \$GETBUFR IN HASPNUC MACRO(S) -----> \$GETBUF \$GETBUF'S INLINE PARAMETER LIST					
4	(4)	BITSTRING	1	\$GTBFLG1	\$GETBUF OPTION FLAG
B'10000000' \$GBUFWT used in \$HASPEQU					
	1... ....			\$GTB1WAT	"B'10000000" Wait requested
	.1.. ....			\$GTB1FIX	"B'01000000" Wait requested
	..1. ....			\$GTB1MUL	"B'00100000" Multiple buffers requested
	...1 ....			\$GTB1LOW	"B'00010000" GET STORAGE BELOW 16MB
5	(5)	BITSTRING	1	\$GTBFTYP	Buffer type flag
MEMBER NAME --> \$GPW ROUTINE(S) ---> \$GETPIW Options passed to \$GETPIW in R0					
	1... ....			\$GPWWAIT	"B'10000000" Wait for storage
	.1.. ....			\$GPWABND	"B'01000000" ABEND if no storage
MEMBER NAME --> \$GTTB ROUTINE(S) ---> \$GETTBUF IN HASCNJAS MACRO(S) -----> \$GETTBUF \$GETTBUF INLINE PARAMETER LIST					
4	(4)	BITSTRING	1	\$GTTBUSE	USE= (See TBFTYPE for values in byte)



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
MEMBER NAME --> GCMB ROUTINE(S) ---> \$GETCMBR MACRO(S) -----> \$GETCMB \$GETCMB's inline parameter list					
4	(4)	BITSTRING	1	\$GTCFLG1	\$GETCMB option flag byte
		1... ....		\$GTC1WAT	"B'10000000" WAIT=YES requested
		.1.. ....		\$GTC1DMC	"B'01000000" DEMANDCMB=YES specified
5	(5)	BITSTRING	1		Reserved for future use
MEMBER NAME --> \$GNH ROUTINE(S) ---> \$GETNHB MACRO(S) -----> \$GETNHB \$GETNHB's inline parameter list					
4	(4)	BITSTRING	1	\$GNHFLG1	\$GETNHB option flag byte
		1... ....		\$GNH1WAT	"B'10000000" WAIT=YES requested
5	(5)	BITSTRING	1		Reserved for future use
MEMBER NAME --> \$GUC ROUTINE(S) ---> \$GETUCBS IN HASPNUC MACRO(S) -----> \$GETUCBS \$GETUCBS' INLINE PARAMETER LIST					
4	(4)	BITSTRING	1	\$GUCFLG1	\$GETUCBS OPTION FLAG
		1... ....		\$GUC1CNT	"B'10000000" CONT=YES specified
		.1.. ....		\$GUC1UNT	"B'01000000" UNIT= specified
MEMBER NAME --> \$GC ROUTINE(S) ---> \$GETCEL IN HASCLINK 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.					
4	(4)	BITSTRING	1	\$GCFLAG1	FLAG BYTE FOR \$GETCEL
		1... ....		\$GC1LPRM	"B'10000000" LONG FORM OF VARIABLE PARM LIST
5	(5)	BITSTRING	1	\$GCRSVRD	RESERVED FOR FUTURE USE
VARIABLE PORTION OF THE \$GETCEL PARAMETER LIST.					
6	(6)	ADDRESS	2	\$GCSIZE	SIZE OF CSA CELL REQUESTED
MEMBER NAME --> \$GF ROUTINE(S) ---> \$GFMAIN IN HASPNUC, \$HGFMAIN IN HASCLINK MACRO(S) -----> \$GETMAIN BRANCH ENTRY GETMAIN/FREEMAIN SERVICES INLINE PARM LIST.					
4	(4)	BITSTRING	1	\$GFFLG3	\$GETMAIN/\$FREEMAIN flag 3
		1... ....		\$GF3LVR0	"B'10000000" Indicate LV passed in R0
		.1.. ....		\$GF3BUFR	"B'01000000" Indicate buffer get/ free
		..1. ....		\$GF3HTCB	"B'00100000" Indicate TCB=HIGH
		...1 ....		\$GF3FREE	"B'00010000" Indicate free main/buf
		.... 1...		\$GF3TCBY	"B'00001000" Indicate TCB=YES, TCB in R1



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... .1..		\$GF3JTCB	"B'00000100'" Indicate JOB STEP TCB
		.... ..1.		\$GF3TCBK	"B'00000010'" Indicate TCBPKF used as key
		.... ...1		\$GF3PSWK	"B'00000001'" Indicate PSW used as key
5	(5)	BITSTRING	1	\$GFFLG4	\$GETMAIN/\$FREEMAIN flag 4
		1... ....		\$GF4SPR0	"B'10000000'" Subpool passed in R0
		.1.. ....		\$GF4STOR	"B'01000000'" KEY=STORAGE for UBUFs only
		..1. ....		\$GF4ZERO	"B'00100000'" ZEROSTOR=YES specified
		...1 ....		\$GF4NOLV	"B'00010000'" Subpool freemain (no LV=)
		.... 1...		\$GF4BAKR	"B'00001000'" REGS=SYSTEM was specified
		.... .1..		\$GF40AUX	"B'00000100'" OWNER=AUX was specified
		.... ..1.		\$GF4TREG	"B'00000010'" TCB=CURRENT/value specified
8	(8)	SIGNED	4	\$GFLENV	\$GETMAIN/\$FREEMAIN length
\$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					
12	(C)	BITSTRING	1	\$GFFLG1	\$GETMAIN/\$FREEMAIN flag 1
EQU B'10000000' Reserved EQU B'01000000' Reserved					
		..1. ....		\$GF1AR15	"B'00100000'" AR 15 is in use
		...1 ....		\$GF1RS64	"B'00010000'" Indicate LOC=(,64)
		.... 1...		\$GF1CHK0	"B'00001000'" Indicate CHECKZERO=YES
EQU B'00000100' Reserved					
		.... ....		\$GF10HOM	"B'00000000'" Indicate OWNER=HOME
		.... ...1		\$GF10PRI	"B'00000001'" Indicate OWNER=PRIMARY
		.... ..1.		\$GF10SEC	"B'00000010'" Indicate OWNER=SECONDARY
		.... ...11		\$GF10SYS	"B'00000011'" Indicate OWNER=SYSTEM
13	(D)	BITSTRING	1	\$GFKEY	KEY STORAGE REQUESTED IN
14	(E)	BITSTRING	1	\$GFSUBPL	SUBPOOL STORAGE REQUESTED IN
15	(F)	BITSTRING	1	\$GFFLG2	\$GETMAIN/\$FREEMAIN flag 2
EQU B'10000000' Reserved					
		.1.. ....		\$GF2RS31	"B'01000000'" Indicate LOC=(,31)
		..1. ....		\$GF2LC31	"B'00100000'" Indicate LOC=31
		...1 ....		\$GF2LC24	"B'00010000'" Indicate LOC=24
EQU B'00001000' Ind variable request					
		.... .1..		\$GF2PGB	"B'00000100'" INDICATE BNDRY=PAGE
		.... ..1.		\$GF2UNCD	"B'00000010'" INDICATE UNCONDITIONAL REQUEST



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ...1		\$GF2FMN	"B'00000001'" INDICATE FREEMAIN
MEMBER NAME --> \$GETJLOK ROUTINE(S) ---> \$GETJLOK in HASPJQS MACRO(S) -----> \$GETJLOK \$GETJLOK'S INLINE PARAMETER LIST					
4	(4)	BITSTRING	1	\$GJLFLG1	\$GETJLOK FLAG 1
		1... ....		\$GJL1JQA	"B'10000000'" RETJQA=YES
		.1.. ....		\$GJL1WAI	"B'01000000'" WAIT=YES
MEMBER NAME --> \$GETWORK ROUTINE(S) ---> \$GETWORK in HASPNUC MACRO(S) -----> \$GETWORK \$GETWORK's inline parameter list					
4	(4)	BITSTRING	1		Reserved (was set to 6)
5	(5)	BITSTRING	1	\$GTWKFL1	\$GETWORK flag 1
		1... ....		\$GTWKCOND	"B'10000000'" ERRET=, conditional entry
		.1.. ....		\$GTWKWAT	"B'01000000'" WAIT=YES, \$WAIT for main
Ensure that characterizing bits (ones that differentiate otherwise equal pools in the GETWORK table) are defined in the same way here as the equates in the \$GETWORK routine and in \$HASPEQU					
		..1. ....		\$GTWKLOC	"B'00100000'" LOC=ANY was specified
		...1 ....		\$GTWKRO	"B'00010000'" Pool is read only
		.... 1...		\$GTWKL64	"B'00001000'" LOC=64 was specified
End of pool discriminates EQU B'00000001' Cell is free					
6	(6)	CHARACTER	4	\$GTWKUSE	ID placed at start of area
MEMBER NAME --> \$IBL ROUTINE(S) ---> \$IOTBLD IN HASCSRDS MACRO(S) -----> \$IOTBLD \$IOTBLD'S INLINE PARAMETER LIST					
4	(4)	BITSTRING	1	\$IBFLAG1	\$IOTBLD OPTION FLAG 1
		1... ....		\$IB1DPDB	"B'10000000'" INDICATE TYPE=Pddb
		.1.. ....		\$IB1DSPN	"B'01000000'" INDICATE TYPE=SPIN
		..1. ....		\$IB1D2ND	"B'00100000'" INDICATE TYPE=SECOND
		...1 ....		\$IB1DPRI	"B'00010000'" Indicate TYPE=PRIMARY
		.... 1...		\$IB1DAUG	"B'00001000'" Indicate SPIN=DAUGHTER
		.... .1..		\$IB1DSJI	"B'00000100'" Indicate SJI0B provided
		.... ..1.		\$IB1DNCH	"B'00000010'" Indicate skip chaining of new IOT of TYPE=Pddb
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
MEMBER NAME --> \$ICL ROUTINE(S) ---> \$IOTCNT IN HASPNUC MACRO(S) -----> \$IOTCNT \$IOTCNT'S INLINE PARAMETER LIST					
4	(4)	BITSTRING	1	\$ICFLAG1	\$IOTBLD OPTION FLAG 1
		1... ....		\$IC1LKNO	"B'10000000'" INDICATE LOCK=NO



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1.. ....		\$IC1LOCK	"B'01000000'" INDICATE LOCK=YES
		..1. ....		\$IC1IOT	"B'00100000'" IN STORAGE IOT ADDRESS IS SUPPLIED
		...1 ....		\$IC1JOE	"B'00010000'" R0 contains addr of JOE
		.... 1..		\$IC1LFRE	"B'00001000'" LOCK=(YES,FREE) specified \$IOTCNT should free lock
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
MEMBER NAME --> \$JCN ROUTINE(S) ---> \$JCANR IN HASPCOMM MACRO(S) -----> \$JCAN \$JCAN'S INLINE PARAMETER LIST					
4	(4)	BITSTRING	1	\$JCNFLG1	\$JCAN Flag
		1... ....		\$JCN1PRO	"B'10000000'" Output Is Protected
		.1.. ....		\$JCN1TST	"B'01000000'" ACTION=TEST
		..1. ....		\$JCN1TSU	"B'00100000'" TSU=N0
		...1 ....		\$JCN1CJ	"B'00010000'" Cancel job requestor
		.... 1..		\$JCN1CJO	"B'00001000'" Cancel processing only
		.... .1..		\$JCN1MSG	"B'00000100'" Message buffer passed
		.... ..1.		\$JCN1JZD	"B'00000010'" JOBGROUP action
Options passed to \$JCAN in R0. The following flag definitions must not be changed. There is code (IBM and customer/vendor) that may use constants for these values.					
4	(4)	BITSTRING	0	CCJFJGRP	"B'0000100000000000'" Processing JOBGROUP command
4	(4)	BITSTRING	0	CCJFRSET	"B'0000010000000000'" Processing reset cmd (\$E,C)
4	(4)	BITSTRING	0	CCJFPROT	"B'0000001000000000'" PROTECTED specified
4	(4)	BITSTRING	0	\$JCN0PMG	"B'0000000100000000'" Request for email queue to purge messages on error
		1... ....		CCJFJOBFB	"B'0000000010000000'" Job found flag
		.1.. ....		CCJFDUMP	"B'0000000001000000'" Verb is C with DUMP flag
B'0000000000100000' Used internally by \$JCAN					
		.... 1..		CCJFFORC	"B'0000000000001000'" Verb is C with FORCE
		.... .1..		CCJFARMR	"B'0000000000000100'" Verb is C with ARMRESTART (DUMP flag may be on too)
		.... ..1.		CCJFSTOP	"B'0000000000000010'" Verb is P (STOP) flag
		.... ...1		CCJFPURG	"B'0000000000000001'" Verb is C with PURGE flag
		.1.. ...1		CCJFOUTP	"B'0000000001000001'" Verb is C with OUTGRP or all FLAG (bits are same as \$Cx,Dump and \$Cx,PURGE)
Below are equates for parameters passed to the dilbert'd routine DILJCAN in AR1 that may be translated into inline parameters listed above.					
		.... ...1		\$DJCA1TS	"B'00000001'" TSU=N0



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		\$DJCA1CJ	"B'00000010'" Cancel job requestor
		.... .1..		\$DJCA1C0	"B'00000100'" Cancel processing only
		.... 1...		\$DJCA1FL	"B'00001000'" Mark job as FLUSHED
MEMBER NAME --> \$JLMRTN ROUTINE(S) ---> JLMxxx in HASCSRJB RGLxxx in HASCSRJB MACRO(S) -----> None JLMxx routines inline parameter list.					
4	(4)	BITSTRING	1	\$JLMRTN	Request/event type:
		1... ....		\$JLMSJB	"B'10000000'" - SJB address in R1
		.1.. ....		\$JLMJQE	"B'01000000'" - JQE address in R1
		..1. ....		\$JLMASCB	"B'00100000'" - ASCB address in AR0
5	(5)	BITSTRING	1	\$JLMRC	Reason code
MEMBER NAME --> JOBCLASV ROUTINE(S) ---> JOBCLASV in HASCSRIP MACRO(S) -----> None JOBCLASV INLINE PARAMETER LIST					
4	(4)	BITSTRING	1	\$JOBCLAV	JOBCLASV flag
		1... ....		\$JCLSRM	"B'10000000'" Return SAF messages
		.1.. ....		\$JCLSNS	"B'01000000'" Do not check submitter
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
MEMBER NAME --> \$JADD ROUTINE(S) ---> \$JADD in HASPJOS MACRO(S) -----> \$JADD \$JADD caller requested JOA address be returned verses a real work JOE address,					
4	(4)	BITSTRING	1	\$JADDFLG	
		1... ....		\$JADDJOA	"B'10000000'" Caller of \$JADD requested an update mode JOA be returned verses a real work JOE address. This JOA/JOE was added to the JOT.
		.1.. ....		\$JADDRSL	"B'01000000'" Check resource limits
MEMBER NAME --> \$JDISPRO ROUTINE(S) ---> \$JDISPRO in HASPJOS MACRO(S) -----> \$JDISPRO \$JDISPRO routine inline parameter list.					
4	(4)	BITSTRING	1	\$JDSPFLG	\$JDISPRO parameter flag
		1... ....		\$JDSFJOA	"B'10000000'" If caller supplied JOA then free it. Default is to free.
MEMBER NAME --> \$JWEL ROUTINE(S) ---> \$JWEL in HASPJOS MACRO(S) -----> \$JWEL \$JWEL routine inline parameter list.					
4	(4)	BITSTRING	1	\$JWLFLG	\$JWEL parameter flag
		1... ....		\$JJLONG	"B'10000000'" Long form of device number
		.1.. ....		\$JJSERCH	"B'01000000'" Search for existing JWEL
		..1. ....		\$JJPURGE	"B'00100000'" Purge all JWELs for JOE
		...1 ....		\$JJADD	"B'00010000'" Add a JWEL



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		\$#JFORCE	"B'00001000'" Force purge of JWEL chain
		.... .1..		\$#JCOND	"B'00000100'" ADD or PURGE conditional
		.... ..1.		\$#JALL	"B'00000010'" Made SEARCH match all JWELs
		.... ...1		\$#JANY	"B'00000001'" Made SEARCH find any JWEL
5	(5)	BITSTRING	1	\$#JWLFL2	Second \$#JWEL parameter flg
		1... ....		\$#JDETECH	"B'10000000'" Detach JWEL chain
		.1.. ....		\$#JATTCH	"B'01000000'" Attach JWEL chain
		..1. ....		\$#JINIT	"B'00100000'" INIT JWEL anchor
		...1 ....		\$#JANCHR	"B'00010000'" Determine JWEL anchor addr
MEMBER NAME --> \$#PUT ROUTINE(S) ---> \$#PUT in HASPJOS MACRO(S) -----> \$#PUT \$#PUT routine inline parameter list.					
4	(4)	BITSTRING	1	\$#PUTFLG	\$#PUT parameter flag
		...1 ....		\$#PJWEL	"B'00010000'" Purge SAPI JWELs
		.... 1...		\$#PFRJOA	"B'00001000'" If caller supplied JOA then free it. Default is to free.
MEMBER NAME --> \$LG ROUTINE(S) ---> \$LOGMSG IN HASPSSRV MACRO(S) -----> \$LOGMSG PLACING JOB RELATED MESSAGES INTO A JOB'S JOBLLOG OR SYSMSG 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.					
4	(4)	BITSTRING	1	\$LGSUBP	SUBPOOL TO FREEMAIN MSGAREA
5	(5)	BITSTRING	1	\$LGFLAG1	FLAG BYTE
		1... ....		\$LG1MFRE	"B'10000000'" MSGFREE=YES WAS SPECIFIED
		.1.. ....		\$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
MEMBER NAME --> \$LV ROUTINE(S) ---> \$TQLEVEL in HASPXCF MACRO(S) -----> \$LEVEL					
4	(4)	BITSTRING	1	\$LVFLAG1	Flag byte 1
		1... ....		\$LV1QSE	"B'10000000'" QSE fields provided
		.1.. ....		\$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
MEMBER NAME --> \$BTM ROUTINE(S) ---> \$BITMAP routine in HASCSRIC MACRO(S) -----> \$BITMAP \$BITMAP inline parameter list.					
4	(4)	SIGNED	1	\$BTMACT	ACTION= requested
4	(4)	X'0'	0	\$BTMCRT	"0" ACTION=CREATE



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
4	(4)	X'4'	0	\$BTMDSTP	"4" ACTION=DESTROY_PRIVATE
4	(4)	X'8'	0	\$BTMSET	"8" ACTION=SET
4	(4)	X'C'	0	\$BTMRST	"12" ACTION=RESET
4	(4)	X'10'	0	\$BTMTST	"16" ACTION=TEST
4	(4)	X'14'	0	\$BTMSON	"20" ACTION=SCANON
4	(4)	X'18'	0	\$BTMSOFF	"24" ACTION=SCANOFF
4	(4)	X'1C'	0	\$BTMCLR	"28" ACTION=CLEAR
4	(4)	X'20'	0	\$BTMSETR	"32" ACTION=SETRANGE
4	(4)	X'24'	0	\$BTMTSRO	"36" ACTION=TESTRANGE_ON
4	(4)	X'28'	0	\$BTMTSRF	"40" ACTION=TESTRANGE_OFF
4	(4)	X'2C'	0	\$BTMDSTC	"44" ACTION=DESTROY_COMMON
5	(5)	BITSTRING	1	\$BTMFLG	\$BITMAP option flags
		1... ....		\$BTMCRTC	"B'10000000'" For ACTION=CREATE: ON = (CREATE,COMMON) OFF = (CREATE,PRIVATE)
		.1.. ....		\$BTMCRON	"B'01000000'" For ACTION=CREATE: ON = (CREATE,...,INITON) OFF = (CREATE,...,INITOFF)
		..1. ....		\$BTMNOAT	"B'00100000'" ATOMIC=NO was specified.
		...1 ....		\$BTMERC	"B'00010000'" BOUNDARY_ABEND=CODE/ ABEND ON = Return error code for boundary errors OFF = \$ERROR on boundary errors.
MEMBER NAME --> RINTJOB ROUTINE(S) ---> RINTJOB in HASPRDR MACRO(S) -----> N/A Create internal job routine inline parameter list.					
4	(4)	BITSTRING	1	\$RINFLG1	RINTJOB flag byte
		1... ....		\$RINLOG	"B'10000000'" Create logging job / NET
MEMBER NAME --> \$JSMTSRV ROUTINE(S) ---> JSMTSRV in HASCSRDS MACRO(S) -----> \$JSMTSRV					
4	(4)	BITSTRING	1	\$JSMACTN	Action:
4	(4)	X'1'	0	\$JSMACTA	"1" ACTION=ADD
4	(4)	X'2'	0	\$JSMACTX	"2" ACTION=EXTRACT
5	(5)	BITSTRING	1	\$JSMTBLF	Symbol table format:
5	(5)	X'1'	0	\$JSMTBJS	"1" SYMTBLF=JESSYM
5	(5)	X'2'	0	\$JSMTBCL	"2" SYMTBLF=JCLSYM
5	(5)	X'3'	0	\$JSMTBSS	"3" SYMTBLF=SYSSYM
6	(6)	BITSTRING	1	\$JSMSYMT	Symbol type:
6	(6)	X'1'	0	\$JSMSYCV	"1" SYMTYPE=CNV
6	(6)	X'2'	0	\$JSMSYIN	"2" SYMTYPE=INT
6	(6)	X'3'	0	\$JSMSYAS	"3" SYMTYPE=ALTSYM
6	(6)	X'4'	0	\$JSMSYNF	"4" SYMTYPE=NOTIFY
7	(7)	BITSTRING	1	\$JSMFLGS	JSMTSRV options:
		1... ....		\$JSMJQE	"B'10000000'" R0 points to JQE
		.1.. ....		\$JSMSJB	"B'01000000'" R0 high points to SJB



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
MEMBER NAME --> \$JZDN ROUTINE(S) ---> PROCJZDN routine in HASCJZDN MACRO(S) -----> \$JZDN PROCJZDN inline parameter list.					
4	(4)	SIGNED	1	\$JDNOOPER	OPERATION= requested :
4	(4)	X'0'	0	\$JDNCRTZ	"0" CREATE_ZOD
4	(4)	X'4'	0	\$JDNADZE	"4" ADD_ZODERROR
4	(4)	X'8'	0	\$JDNADOE	"8" ADD_ONERROR
4	(4)	X'C'	0	\$JDNIJOB	"12" INSERT_JOB
4	(4)	X'10'	0	\$JDNCRJS	"16" CREATE_JOBSET
4	(4)	X'14'	0	\$JDNJSJO	"20" INSERT_JOBSET_JOB
4	(4)	X'18'	0	\$JDNENJS	"24" END_JOBSET
4	(4)	X'1C'	0	\$JDNADFA	"28" ADD_FLUSHACTION
4	(4)	X'20'	0	\$JDNIDEP	"32" INSERT_DEP
4	(4)	X'24'	0	\$JDNADWH	"36" ADD_WHEN
4	(4)	X'28'	0	\$JDNADEA	"40" ADD_ENDACTION
4	(4)	X'2C'	0	\$JDNADOT	"44" ADD_OTHERWISE
4	(4)	X'30'	0	\$JDNICON	"48" INSERT_CONCURRENT
4	(4)	X'34'	0	\$JDNENDZ	"52" END_ZOD
4	(4)	X'38'	0	\$JDNDESZ	"56" DESTROY_ZOD
4	(4)	X'3C'	0	\$JDNCKZO	"60" CKPT_ZOD
4	(4)	X'40'	0	\$JDNRJOB	"64" REGISTER_JOB
4	(4)	X'44'	0	\$JDNPJOB	"68" PROCESS_JOB
4	(4)	X'48'	0	\$JDNDELZ	"72" DELETE_ZOD
4	(4)	X'4C'	0	\$JDNVERZ	"76" VERIFY_CKPT_ZOD
4	(4)	X'50'	0	\$JDNDISZ	"80" DISPLAY_CKPT_ZOD
4	(4)	X'54'	0	\$JDNCANZ	"84" CANCEL_ZOD
4	(4)	X'58'	0	\$JDNPURZ	"88" PURGE_ZOD
4	(4)	X'5C'	0	\$JDNCANJ	"92" CANCEL_JOB
4	(4)	X'60'	0	\$JDNCHKJ	"96" CHECK_JOB
4	(4)	X'64'	0	\$JDNCHKE	"100" CHECK_ELIGIBLE
4	(4)	X'68'	0	\$JDNPURJ	"104" PURGE_JOB
4	(4)	X'6C'	0	\$JDNZOST	"108" SET_ZOD_STATE
4	(4)	X'70'	0	\$JDPTRTP	"112" PRINT_RPN
4	(4)	X'74'	0	\$JDNPCON	"116" PROCESS_CONCUR_JOBS
4	(4)	X'78'	0	\$JDNZAPZ	"120" ZAP_ZOD
4	(4)	X'7C'	0	\$JDNSSC	"124" SET_SRVCLASS
4	(4)	X'80'	0	\$JDVERZC	"128" VERIFY_ZJC_CTENT
4	(4)	X'84'	0	\$JDNCRTN	"132" CREATE_NET_WORK_AREA
4	(4)	X'88'	0	\$JDNDESN	"136" DESTROY_NET_WORK_AREA
4	(4)	X'8C'	0	\$JDNINND	"140" INSERT_NET_DEP
4	(4)	X'90'	0	\$JDNSDJC	"144" SUBMIT_DJC_JOB
4	(4)	X'94'	0	\$JDNNTRL	"148" PROCESS_NETREL
4	(4)	X'98'	0	\$JDNCRCZ	"152" CREATE_CKPT_ZOD
4	(4)	X'9C'	0	\$JDNFREZ	"156" FREE_CKPT_ZOD
4	(4)	X'A0'	0	\$JDNINCV	"160" INIT_NET_CVTERR_ZJI



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'A4'	0	\$JDNZAPJ	"164" ZAP_JOB
5	(5)	BITSTRING	1	\$JDNFLG	PROCJZDN option flags
		1... ....		\$JDNDDEPT	"B'10000000'" Specifies dependency type for INSERT_DEP operation: ON - BEFORE dependency OFF - AFTER dependency
		.1... ....		\$JDNFACT	"B'01000000'" Specifies dependency type for FLUSHACTION= keyword: OFF - ALLFLUSH ON - ANYFLUSH
		..1. ....		\$JDNPURG	"B'00100000'" CANCEL_ZOD (\$JDNCANZ) operation purge option. OFF - Cancel only ON - Cancel with Purge VERIFY_ZJC_CTENT (\$JDVERZC) operation purge option. OFF - Verify only (do not cleanup any anomalies found). ON - Verify and cleanup any anomalies found.
		...1 ....		\$JDNSCAN	"B'00010000'" Specifies caller type for OPERATION=DISPLAY_CKPT_ZOD OFF - non-SCAN caller ON - pre/postscan caller
		.... 1...		\$JDNMZOD	"B'00001000'" Specifies caller type for OPERATION=DISPLAY_CKPT_ZOD for SCAN caller OFF - no memory object ON - build in-memory MZOD w/ZOD data
		.... .1..		\$JDNSUSP	"B'00000100'" Specifies suspend or flush for CANCEL_JOB operation: OFF - Input job will be FLUSHED. ON - Input job will be SUSPENDED.
MEMBER NAME --> \$MODCHK ROUTINE(S) ---> \$MODCHK in HASPCSV MACRO(S) -----> \$MODCHK					
4	(4)	BITSTRING	1	\$MCFLAG1	Flag byte 1
		1... ....		\$MCMSG	"B'10000000'" MESSAGE=YES specified
		.1... ....		\$MCMSG5	"B'01000000'" MESSAGE=SUPPRESS specified
5	(5)	BITSTRING	1		Reserved
5	(5)	X'2'	0	\$MCBYTES	"L'\$MCTESTS'" Number of bytes for test flags \$MCBYTES*8 must be larger than or equal to \$MCNTEST
6	(6)	BITSTRING	2	\$MCTESTS	Test requested byte
6	(6)	BITSTRING	0	\$MCRMD24	"B'1000000000000000'" Module below 16meg line
6	(6)	BITSTRING	0	\$MCCOMMN	"B'0100000000000000'" Module in common storage
6	(6)	BITSTRING	0	\$MCMIT	"B'0010000000000000'" Module large enough for MIT, MIT id valid, MITETBL in module
6	(6)	BITSTRING	0	\$MCVERS	"B'0001000000000000'" HCT version=version in MIT
6	(6)	BITSTRING	0	\$MCNAME	"B'0000100000000000'" Module name = name in MIT
6	(6)	BITSTRING	0	\$MCPROPX	"B'0000010000000000'" Propagate \$EXIT points to XIT table of defined exits
6	(6)	BITSTRING	0	\$MCRSLVX	"B'0000001000000000'" Resolve exit routine addresses to XRT
6	(6)	BITSTRING	0	\$MCTABL	"B'0000000100000000'" Process dynamic tables



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		\$MCADDR	"B'0000000010000000'" Resolve routine addresses
		.1.. ..		\$MCDYNAM	"B'0000000010000000'" Supports dynamic commands
		..1. ....		\$MCDELET	"B'0000000010000000'" Can the module be deleted
6	(6)	X'B'	0	\$MCNTEST	"11" Number of tests now defined
MEMBER NAME --> \$MSTNTFY ROUTINE(S) ---> \$MSTNTFY in HASPSSRV XCF PCE in HASPXCFC MACRO(S) -----> \$MSTNTFY					
4	(4)	BITSTRING	1	\$MSTTYPE	Flag byte 1
4	(4)	X'1'	0	\$MSTSET	"1" TYPE=SET specified
4	(4)	X'2'	0	\$MSTCLR	"2" TYPE=CLEAR specified
5	(5)	BITSTRING	1	\$MSTFLG1	Flag byte 2
		1... ..		\$MST1ECB	"B'10000000'" ECB was supplied
		.1.. ..		\$MST1EXT	"B'01000000'" EXITPGM was supplied
		..1. ....		\$MST1EXP	"B'00100000'" EXITPRM was supplied
MEMBER NAME --> \$NATADD ROUTINE(S) ---> \$NATADD in HASPNATS MACRO(S) -----> \$NATADD Nodes Attached Table ADD routine's inline parameter list.					
4	(4)	BITSTRING	1	\$NADSTAT	NAT queue to \$NATADD element to (see NATCSTAT)
5	(5)	BITSTRING	1	\$NADFLG1	\$NATADD parameter flag
		1... ..		\$NAD1NAT	"B'10000000'" Use prototype NAT element
		.1.. ..		\$NAD1NCC	"B'01000000'" Use prototype NCC record
		..1. ....		\$NAD1STA	"B'00100000'" Add static connection
		...1 ....		\$NAD1CES	"B'00010000'" Bypass CES TIMETOL check
MEMBER NAME --> \$NATGET ROUTINE(S) ---> \$NATGET in HASPNATS MACRO(S) -----> \$NATGET Nodes Attached Table GET routine's inline parameter list.					
4	(4)	BITSTRING	1	\$NGTSTAT	NAT queue to \$NATGET element from (see NATCSTAT)
5	(5)	BITSTRING	1	\$NGTFLG1	\$NATGET parameter flag
		1... ..		\$NGT1NAT	"B'10000000'" Use prototype NAT element
		.1.. ..		\$NGT1NCC	"B'01000000'" Use prototype NCC record
		..1. ....		\$NGT1TOK	"B'00100000'" Token provided to routine
		...1 ....		\$NGT1FST	"B'00010000'" Use Fast Path \$NATGET
MEMBER NAME --> \$NATMOD ROUTINE(S) ---> \$NATMOD in HASPNATS MACRO(S) -----> \$NATMOD Nodes Attached Table MODify routine's inline parameter list.					
4	(4)	BITSTRING	1	\$NMDSTAT	NAT queue to \$NATMOD element to (see NATCSTAT)



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
5	(5)	BITSTRING	1	\$NMDFLG1	\$NATMOD parameter flag 1
		1... ..		\$NMD1NAT	"B'10000000'" Use prototype NAT element
		.1.. ..		\$NMD1NCC	"B'01000000'" Use prototype NCC record
		..1. ....		\$NMD1FST	"B'00100000'" Use Fast Path \$NATMOD
		...1 ....		\$NMD1STA	"B'00010000'" Modify STATIC connection
		.... 1...		\$NMD1CES	"B'00001000'" Bypass CES TIMETOL check
MEMBER NAME --> \$NATNOT ROUTINE(S) ---> \$NATNOT in HASPNATS MACRO(S) -----> \$NATNOT Nodes Attached Table NOTify routine's inline parameter list.					
4	(4)	BITSTRING	1	\$NNTFLG1	\$NATNOT parameter flag 1
		1... ..		\$NNT1SET	"B'10000000'" TYPE=SET or TESTSET
		.1.. ..		\$NNT1TST	"B'01000000'" TYPE=TEST or TESTSET
		..1. ....		\$NNT1NOT	"B'00100000'" NOTIFIED=YES
		...1 ....		\$NNT1FST	"B'00010000'" PATH=FAST
		.... 1...		\$NNT1MTR	"B'00001000'" Update MASTER notify map
		.... .1..		\$NNT1MMA	"B'00000100'" SCOPE=MAS was specified
MEMBER NAME --> \$NATREM ROUTINE(S) ---> \$NATREM in HASPNATS MACRO(S) -----> \$NATREM Nodes Attached Table REMove routine's inline parameter list.					
4	(4)	BITSTRING	1	\$NRMFLG1	\$NATREM parameter flag 1
		1... ..		\$NRM1STA	"B'10000000'" Remove static NAT
		.1.. ..		\$NRM1ALL	"B'01000000'" Remove all NATs
MEMBER NAME --> \$NHR ROUTINE(S) ---> NJEHDRCV in HASPNET MACRO(S) -----> \$NHDRCV Network Header Receive routine's inline parameter list.					
4	(4)	BITSTRING	1	\$NHRFLG1	\$NHDRCV parameter flag 1
		1... ..		\$NHR1XIT	"B'10000000'" Invoke exit 47 after recv
5	(5)	BITSTRING	1	\$NHRSRCB	SRCB of received header
MEMBER NAME --> \$NHW ROUTINE(S) ---> NJEHDWR in HASPNET MACRO(S) -----> \$NHDWRT Network Header Write routine's inline parameter list.					
4	(4)	BITSTRING	1	\$NHWFLG1	\$NHDWRT parameter flag 1
		1... ..		\$NHW1FRE	"B'10000000'" Free header after write
		.1.. ..		\$NHW1WAT	"B'01000000'" Wait for write to complete
MEMBER NAME --> \$NHX ROUTINE(S) ---> NJEHDXT in HASPNET MACRO(S) -----> \$NHDXMT Network Header Transmit routine's inline parameter list.					
4	(4)	BITSTRING	1	\$NHXFLG1	\$NHDXMT parameter flag 1



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		\$NHX1FRE	"B'10000000" Free header after xmit
		.1.. ..		\$NHX1XIT	"B'01000000" Invoke exit 46 before xmit
5	(5)	BITSTRING	1	\$NHXSRCB	SRCB of xmitted header
MEMBER NAME --> \$NSL ROUTINE(S) ---> \$NSSTL0K in HASCNJAS MACRO(S) -----> \$NSSTL0K Synchronize local and checkpointed NITs.					
4	(4)	BITSTRING	1	\$NSLFLG1	\$NSSTL0K parameter flag 1
		1... ..		\$NSL10BT	"B'10000000" REQUEST=OBTAIN
		.1.. ..		\$NSL1WAT	"B'01000000" WAIT=YES
		..1. ....		\$NSL1SHR	"B'00100000" SHARED=YES
MEMBER NAME --> \$NSY ROUTINE(S) ---> \$NITSYNC in HASPNET MACRO(S) -----> \$NITSYNC Synchronize local and checkpointed NITs.					
4	(4)	BITSTRING	1	\$NSYFLG1	\$NITSYNC parameter flag 1
		1... ..		\$NSY1REF	"B'10000000" ACTION=(REFRESH,)
		.1.. ..		\$NSY1CMP	"B'01000000" ACTION=(COMPARE,)
		..1. ....		\$NSY1LOC	"B'00100000" ACTION=(,LOCAL)
		...1 ....		\$NSY1CKP	"B'00010000" ACTION=(,CKPT)
		.... 1...		\$NSY1MSG	"B'00001000" MESSAGE=YES
		.... .1..		\$NSY1NIT	"B'00000100" Update single NIT
MEMBER NAME --> \$NOT ROUTINE(S) ---> \$NOTIFY in HASCSIRQ MACRO(S) -----> \$NOTIFY Send a NJE notify message					
4	(4)	BITSTRING	1	\$NOTFLG1	\$NOTIFY parameter flag 1
		1... ..		\$NOT1NJB	"B'10000000" JOB=NO was specified
		.1.. ..		\$NOT1NUM	"B'01000000" NODENUM was specified
		..1. ....		\$NOT1JQE	"B'00100000" JQE was specified
		...1 ....		\$NOT1NUS	"B'00010000" USERID=NONE
		.... 1...		\$NOT1MEM	"B'00001000" MEMBER= was specified
		.... .1..		\$NOT1TKN	"B'00000100" STOKEN= was specified
		.... ..1.		\$NOT1EML	"B'00000010" EMAIL= was specified
		.... ...1		\$NOT1SBJ	"B'00000001" SUBJECT=YES was specified
MEMBER NAME --> \$PBL ROUTINE(S) ---> \$PDBBLD IN HASCDAL MACRO(S) -----> \$PDBBLD BUID AND INITIALIZE A PDDb ROUTINE'S INLINE PARAMETER LIST.					
4	(4)	BITSTRING	1	\$PBFLAG1	\$PDBBLD MACRO OPTION FLAGS FOR USER ENVIRONMENT
		1... ..		\$PB1DPDB	"B'10000000" INDICATE TYPE=PDDb
		.1.. ..		\$PB1DSPN	"B'01000000" INDICATE TYPE=SPIN
		..1. ....		\$PB1DAUG	"B'00100000" Indicate SPIN=DAUGHTER
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Member name --> \$PGS Routine(s) ---> \$PGSRVC in HASPNUC Macro(s) -----> \$PGSRVC \$PGSRVC routine inline parameter list					
4	(4)	BITSTRING	1	\$PGSFLG1	Flag byte
		1... ....		\$PGSRVRL	"B'10000000" RELEASE specified
		.1.. ....		\$PGSFIX	"B'01000000" FIX specified
		..1. ....		\$PGSFREE	"B'00100000" FREE specified
		...1 ....		\$PGSRPSL	"B'00010000" PSL (Page Serv List) passed
		.... 1...		\$PGSRSSL	"B'00001000" SSL (Short PSL) passed
		.... .1..		\$PGSPRO	"B'00000100" PROTECT specified
		.... ..1.		\$PGSUPRO	"B'00000010" UNPROTECT specified
5	(5)	BITSTRING	1		Reserved for future use
MEMBER NAME --> \$PRG ROUTINE(S) ---> \$PURGER IN HASPTRAK MACRO(S) -----> \$PURGE PURGER routine inline parameter list					
4	(4)	BITSTRING	1	\$PRGFLG1	Flag byte
		1... ....		\$PRG1Vfy	"B'10000000" SAF verification required
		.1.. ....		\$PRG1ENF	"B'01000000" Issue PURGE ENF
		..1. ....		\$PRG1JOA	"B'00100000" JOA address provided
		...1 ....		\$PRG1RGD	"B'00010000" RGDC address provided
MEMBER NAME --> \$PSQ ROUTINE(S) ---> XPOSTXEQ in HASPXEQ MACRO(S) -----> \$POSTXEQ XPOSTXEQ routine inline parameter list					
4	(4)	BITSTRING	1	\$PSQFLG1	Flag byte
		1... ....		\$PSQ1MAS	"B'10000000" Wake up all members of MAS
		.1.. ....		\$PSQ1JQE	"B'01000000" Caller provided JQE in R1
MEMBER NAME --> \$PTA ROUTINE(S) ---> \$PUTABLE in HASPTABS MACRO(S) -----> \$PUTABLE \$PUTABLE routine inline parameter list					
4	(4)	BITSTRING	1	\$PTAFLG1	Flag byte
		1... ....		\$PTA1MCT	"B'10000000" Offset of \$PAIR is in MCT
		.1.. ....		\$PTA1UCT	"B'01000000" Offset of \$PAIR is in UCT
		..1. ....		\$PTA1CCT	"B'00100000" Offset of \$PAIR is in HCCT
MEMBER NAME --> PWC ROUTINE(S) ---> PIWCRT Options passed to PIWCRT in R0					
		1... ....		\$PWC31WA	"B'10000000" Include 31-bit work area
		.1.. ....		\$PWCWAVE	"B'01000000" Add WAVE to 31-bit work area



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	..1. ....			\$PWCABND	"B'00100000'" ABEND if no storage
	...1 ....			\$PWCHIGH	"B'00010000'" Use high TCB, not current
MEMBER NAME --> \$QB ROUTINE(S) ---> \$QBUSY in HASPJQS MACRO(S) -----> \$QBUSY \$QBUSY routines inline parameter list.					
4	(4)	BITSTRING	1	\$QBSYFLG	\$QBUSY parameter flag
	1... ....			\$QBACTON	"B'10000000'" Set the busy bits for this JQE on
	.1.. ....			\$QBACTOF	"B'01000000'" Set the busy bits for this JQE off
	..1. ....			\$QBTRACE	"B'00100000'" Trace this call
	...1 ....			\$QBBREAL	"B'00010000'" Real JQE was passed
	.... 1..			\$QBNALCT	"B'00001000'" Don't alter xeq class count
	.... .1..			\$QBHVCAT	"B'00000100'" CAT passed in by caller
	.... ..1.			\$QBDODEV	"B'00000010'" Set JOEDEV from PCEDCT
	.... ...1			\$QBDEVID	"B'00000001'" Set JOEDEV from passed field
MEMBER NAME --> \$#B ROUTINE(S) ---> \$#BUSY in HASPJQS MACRO(S) -----> \$#BUSY \$#BUSY routines inline parameter list.					
4	(4)	BITSTRING	1	\$#BSYFLG	\$#BUSY parameter flag
	1... ....			\$#BACTON	"B'10000000'" Set the busy bits for this JOE on
	.1.. ....			\$#BACTOF	"B'01000000'" Set the busy bits for this JOE off
	..1. ....			\$#BTRACE	"B'00100000'" Trace this call
	...1 ....			\$#BREAL	"B'00010000'" Real JOE was passed
	.... 1..			\$#BPOST	"B'00001000'" \$#POST the JOE
	.... .1..			\$#BDODEV	"B'00000100'" Set JOEDEV from PCEDCT
	.... ..1.			\$#BDEVID	"B'00000010'" Set JOEDEV from passed field
	.... ...1			\$#BCKPNO	"B'00000001'" No Checkpoint of JOE
5	(5)	BITSTRING	1	\$#BSYFL2	Second inline flag byte
	1... ....			\$#BCKPON	"B'10000000'" Checkpoint only JOEBUSY and JOEDEV
MEMBER NAME --> \$QRBDCHK ROUTINE(S) ---> \$QRBDCHK in HASPJQS MACRO(S) -----> \$QRBDCHK \$QRBDCHK routines inline parameter list.					
4	(4)	BITSTRING	1	\$QRBDFLG	\$QRBDCHK parameter flag
	1... ....			\$QRQNONE	"B'10000000'" This JQE is currently not on a job queue
	.1.. ....			\$QRQOTH	"B'01000000'" This JQE is currently on an other queue
	..1. ....			\$QRQRLD	"B'00100000'" This JQE is currently on the rebuild queue



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
MEMBER NAME --> \$RBDCHK ROUTINE(S) ---> \$RBDCHK in HASPJOS MACRO(S) -----> \$RBDCHK \$RBDCHK routines inline parameter list.					
4	(4)	BITSTRING	1	\$RBDFLG	\$RBDCHK parameter flag
		1... ..		\$RQNONE	"B'10000000" This JOE is currently not on an output queue
		.1.. ..		\$RQRBLD	"B'01000000" This JOE is currently on the rebuild queue
		..1. ....		\$RQOTH	"B'00100000" This JOE is on one of the normal output queues
MEMBER NAME --> QJQEVER ROUTINE(S) ---> QJQEVER in HASPJQS MACRO(S) -----> None QJQEVER routine inline parameter list.					
4	(4)	BITSTRING	1	\$QJVPFLG	QJQEVER parameter flag
		1... ..		\$QJVALNF	"B'10000000" Validate that this is not a free JQE
		.1.. ..		\$QJVRETC	"B'01000000" Validate JQE and return RC (never ABEND)
		..1. ....		\$QJVNJQA	"B'00100000" Do not allow if JQA
		...1 ....		\$QJVFRRC	"B'00010000" Give return code if JQE is free (\$QJVALNF must also be set)
MEMBER NAME --> \$QSUSE ROUTINE(S) ---> \$QSUSE in HASPNUC MACRO(S) -----> \$QSUSE Obtain JES2 queues parameter list Note: Update both HASMPERF and the QSUCB DSECT in \$PERFCB if this inline parameter list changes.					
4	(4)	BITSTRING	1	\$QSUFLG1	\$QSUSE parameter flag
		1... ..		\$QSU1LUR	"B'10000000" Passively wait for queues
		.1.. ..		\$QSU1NOI	"B'01000000" Ensure no I/O active
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	\$QSUPLN	"*-PARMLIST" Length of this parm list
MEMBER NAME --> QTYPESET ROUTINE(S) ---> QTYPESET in HASPJQS MACRO(S) -----> None QTYPESET routine inline parameter list.					
4	(4)	BITSTRING	1	\$QTPYFLG	QTYPESET parameter flag
		1... ..		\$QTYALTE	"B'10000000" Begin processing at the alternate spot (QTSTPRG)
MEMBER NAME --> \$REP ROUTINE(S) ---> \$REP in HASPJOS MACRO(S) -----> \$REP \$REP routine inline parameter list.					
4	(4)	BITSTRING	1	\$REPFLG	\$REP parameter flag
		1... ..		\$REPW	"B'10000000" Wait if JOT is full
		.1.. ..		\$REPC	"B'01000000" Copy JWEs from orig JOE



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		\$#REPREM	"B'00001000'" REMJOE was specified.
		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.			
4	(4)	BITSTRING	1	\$RETFLAG	\$RETURN MACRO OPTION FLAGS FOR USER & SUBTASK ENVIRONMENT
		1... ....		\$RETANY	"B'10000000'" (USER,ANY) ENVIRONMENT
		.1.. ....		\$RETPARM	"B'01000000'" PARM=YES WAS SPECIFIED
		..1. ....		\$RETTTRCD	"B'00100000'" Trace data passed
		.... 1111		\$RETREG	"B'00001111'" Register in save area with return address (if not R14)
5	(5)	BITSTRING	1		Reserved
6	(6)	BITSTRING	1	\$RETTFLG	Trace data flags (see \$SAVTFLG for bits)
7	(7)	BITSTRING	1	\$RETTDAT	TRACE data address register
8	(8)	BITSTRING	1	\$RETTLEN	TRACE data length
9	(9)	BITSTRING	1		Reserved
		MEMBER NAME --> \$ROLL ROUTINE(S) ---> \$ROLL in HASPEVTL MACRO(S) -----> \$ROLL (assembler) \$ROLL inline parameter list			
4	(4)	BITSTRING	1	\$ROLLSRV	Trace caller Service ID 1
5	(5)	BITSTRING	1	\$ROLLSV2	Trace caller modifier
		.... ...1		\$ROLNTRY	"B'00000001'" Entry trace modifier
		.... ..1.		\$ROLEXIT	"B'00000010'" Exit trace modifier
		.... .1..		\$ROLSVRC	"B'00000100'" Service return code in R1
		.... 1...		\$ROLCHAN	"B'00001000'" Chain trace modifier
6	(6)	SIGNED	2	\$ROLLOFF	TED offset of Trace Tbl @
		.... ....		\$ROLJQEI	"X'02000000'" CTRACE format ID for JQEs
		.... ....		\$ROLJOEI	"X'03000000'" CTRACE format ID for JOEs
		.... ....		\$ROLDSPi	"X'04000000'" CTRACE format ID for DISPs
		.... ....		\$ROLSAPI	"X'05000000'" CTRACE format ID for SAPI
		.... ....		\$ROLCKPT	"X'06000000'" CTRACE format ID for CKPT
		.... ....		\$ROLQGET	"X'07000000'" CTRACE format ID for QGET
		.... ....		\$ROLPHAM	"X'08000000'" CTRACE format ID for PHAM
		.... ....		\$ROLPSV	"X'09000000'" CTRACE format ID for PSV
		MEMBER NAME --> \$RQGT ROUTINE(S) ---> \$RQUEGET IN HASCRQUE MACRO(S) -----> \$RQUE \$RQUE 'GET' INLINE PARAMETER LIST.			



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	1	\$RQGTFL1	Flag byte
		1... ....		\$RQGT1RC	"B'10000000" Recovery request
		.1.. ....		\$RQGT1VE	"B'01000000" Veto routine provided
MEMBER NAME --> \$RRA ROUTINE(S) ---> \$RROUTE IN HASPSERV MACRO(S) -----> \$RROUTE RROUTE AUTHORIZATION INLINE PARAMETER LIST.					
4	(4)	BITSTRING	1	\$RRAFLG1	\$RRA FLAG BYTE
		1... ....		\$RRA1JOB	"B'10000000" RROUTE JOB REQUEST
MEMBER NAME --> \$RTA ROUTINE(S) ---> \$RETABLE in HASPTABS MACRO(S) -----> \$RETABLE \$RETABLE routine inline parameter list					
4	(4)	BITSTRING	1	\$RTAFLG1	Flag byte
		1... ....		\$RTA1MCT	"B'10000000" Offset of \$PAIR is in MCT
		.1.. ....		\$RTA1UCT	"B'01000000" Offset of \$PAIR is in UCT
		..1. ....		\$RTA1CCT	"B'00100000" Offset of \$PAIR is in HCCT
		.... ..1.		\$RTA1FRY	"B'00000010" Free DYN T YES specified
		.... ...1		\$RTA1FRN	"B'00000001" Free DYN T NO specified Free DYN T COND both off
MEMBER NAME --> \$SAV ROUTINE(S) ---> \$CSAVE IN HASCLINK \$GETSAVE IN HASPNUC \$MSAVE IN HASPFSSM MACRO(S) -----> \$SAVE (assembler) \$SAVEP (PL/X) COMMON SAVE SERVICE ROUTINE'S INLINE PARAMETER LIST.					
4	(4)	BITSTRING	1	\$SAVFLAG	\$SAVE MACRO OPTION FLAGS FOR THE USER & SUBTASK ENVIRONMENT
		1... ....		\$SAVTRC	"B'10000000" TRACE THIS SAVE
		.1.. ....		\$SAVTRE	"B'01000000" TRE WAS PROVIDED
		..1. ....		\$SAVNRG	"B'00100000" REGS=NO WAS PROVIDED
		...1 ....		\$SAVARS	"B'00010000" SYSSTATE=AR at macro time
		.... 1...		\$SAVANY	"B'00001000" SYSSTATE=ANY at macro time
		.... .1..		\$SAVUANY	"B'00000100" \$ENVIRON (USER,ANY)
		.... ..1.		\$SAVTRCD	"B'00000010" Trace data passed
		.... ...1		\$SAVNRLS	"B'00000001" Registers in linkage stack (and REGS=NO)
5	(5)	BITSTRING	1	\$SAVFLG2	More option flags
		1... ....		\$SAVAM64	"B'10000000" SYSSTATE AMODE64=YES at macro time
		.1.. ....		\$SAVNO\$W	"B'01000000" Prohibit main task \$WAITs
6	(6)	CHARACTER	8	\$SAVNAME	EBCDIC LABEL
14	(E)	BITSTRING	1	\$SAVTFLG	Trace data flags
		1... ....		\$SAVTLRR	"B'10000000" \$SAVTLEN low half of reg



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1.. ....		\$SAVTLHR	"B'01000000'" \$SAVTLEN high half of reg
		..1. ....		\$SAVTLAR	"B'00100000'" \$SAVTLEN access register
		...1 ....		\$SAVTLOF	"B'00010000'" \$SAVTLEN is an offset
		.... 1...		\$SAVTDRR	"B'00001000'" \$SAVTDAT low half of reg
		.... .1..		\$SAVTDHR	"B'00000100'" \$SAVTDAT high half of reg
		.... ..1.		\$SAVTDAR	"B'00000010'" \$SAVTDAT access register
		.... ...1		\$SAVTUSR	"B'00000001'" User data (use TRECKEY)
15	(F)	BITSTRING	1	\$SAVTDAT	TRACE data address register
16	(10)	BITSTRING	1	\$SAVTLEN	TRACE data length
17	(11)	BITSTRING	1	\$SAVAREG	Access regs (of 0,1,15) to save
MEMBER NAME --> \$SCD ROUTINE(S) ---> SCANDIAG IN HASCSCAN MACRO(S) -----> \$SCANDIA \$SCAN Diagnostic message routine					
4	(4)	BITSTRING	1	\$SCDFLG1	\$SCANDIA MACRO OPTION FLAGS
		1... ....		\$SCD1WAR	"B'10000000'" TYPE=WARN message
Member name --> \$SD Routine(s) ---> \$SDUMP in HASPRAS MACRO(s) -----> \$SDUMP \$SDUMP service routine					
4	(4)	BITSTRING	1	\$SDFLAG1	\$SDUMP MACRO option flags
		1... ....		\$SDHOME	"B'10000000'" Dump home address space
		.1.. ....		\$SDAPPND	"B'01000000'" Append passed title
		..1. ....		\$SDDEFT	"B'00100000'" Generate only default title
		...1 ....		\$SDRETRN	"B'00010000'" If SDUMP fails, just return
		.... 1...		\$SDWAIT	"B'00001000'" If SDUMP fails, WTOR/WAIT
		.... .1..		\$SDXSYS	"B'00000100'" Dump other MAS members
MEMBER NAME --> \$SF ROUTINE(S) ---> \$SJBFIN in HASCSRJB MACRO(S) -----> \$SJBFIN SUBSYSTEM JOB BLOCK FIND ROUTINE'S INLINE PARAMETER LIST.					
4	(4)	BITSTRING	1	\$SFFLAG1	\$SJBFIN MACRO OPTION FLAGS
		1... ....		\$SF1LOJ	"B'10000000'" FIND THE LIFE OF JOB SJB
		.1.. ....		\$SF1SSIB	"B'01000000'" FIND THE SSIB SJB
		..1. ....		\$SF1FRST	"B'00100000'" FIND THE FIRST SJB FOR THE A.S.
		...1 ....		\$SF1LAST	"B'00010000'" FIND THE LAST SJB FOR THE A.S.
		.... 1...		\$SF1ASID	"B'00001000'" ASCB ASID PASSED IN R0



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
MEMBER NAME --> \$SJF ROUTINE(S) ---> \$SJBFREE IN HASCSRJB MACRO(S) -----> \$SJBFREE CLEANUP SJB RELATED STORAGE ROUTINE INLINE PARAMETER LIST.					
4	(4)	BITSTRING	1	\$SJFLAG1	\$SJBFREE MACRO OPTION FLAGS
		1... ....		\$SJFNPVT	"B'10000000'" PRIVATE STORAGE NOT AVAILBL
		.1.. ....		\$SJFMEM	"B'01000000'" Dechain SJB, don't FREEMAIN
MEMBER NAME --> \$SIGIO ROUTINE(S) ---> \$SIGIO in HASCSRDS and HASPSPOL MACRO(S) -----> \$SIGIO Signature Record I/O parameter list					
4	(4)	BITSTRING	1	\$SIGFLG1	\$SIGIO parameter flag
		1... ....		\$SIG1W	"B'10000000'" Write Signature record
		.1.. ....		\$SIG1R	"B'01000000'" Read Signature record
		..1. ....		\$SIG1SKP	"B'00100000'" Skip invalid extents
		...1 ....		\$SIG1MQT	"B'00010000'" MQT= specified
		.... 1...		\$SIG1VAV	"B'00001000'" Verify TG is available
MEMBER NAME --> \$SL ROUTINE(S) ---> \$SJBLOCK IN HASCSRJB MACRO(S) -----> \$SJBLOCK SUBSYSTEM JOB BLOCK LOCK ROUTINE'S INLINE PARAMETER LIST.					
4	(4)	BITSTRING	1	\$SLFLAG1	\$SJBLOCK MACRO OPTION FLAGS
EQU B'10000000' RESERVED EQU B'01000000' RESERVED					
		..1. ....		\$SL1RETN	"B'00100000'" RETURN TO CALLER IF SJB LOCK OWNER IS NON-DISPATCHABLE
		...1 ....		\$SL1WAIT	"B'00010000'" RETURN TO CALLER IF SJB LOCK IS NOT AVAILABLE (RC=16)
		.... 1...		\$SL1ACPT	"B'00001000'" Return wih RC=4 if lock is already held by the same TCB
MEMBER NAME --> \$SPIN ROUTINE(S) ---> HFEXSPIN in HASCDSOC MACRO(S) -----> \$SPIN Data set dynamic spin routine					
4	(4)	BITSTRING	1	\$SPNFLG1	Option flags
		1... ....		\$SPN1CY	"B'10000000'" Spin companion file too
		.1.. ....		\$SPN1NL	"B'01000000'" SDB lock not held
MEMBER NAME --> \$STL ROUTINE(S) ---> NPLLOG in HASPIRPL MACRO(S) -----> \$STMTLOG TYPE=FREE SJB Unlock routine's inline parameter list					
4	(4)	BITSTRING	1	\$STLTYPE	Statement type
		1... ....		\$STMT	"B'10000000'" Statement should be logged
		.1.. ....		\$STMTCOM	"B'01000000'" Diagnostic is a comment
		..1. ....		\$STMTWAR	"B'00100000'" Diagnostic is a warning



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1 ....		\$STMTERR	"B'00010000'" Diagnostic is an error MSG
		.... 1...		\$STMTCON	"B'00001000'" Continuation of diagnostic
		.... .1..		\$STMTRAW	"B'00000100'" Do not prefix diagnostic
		.... ..1.		\$STMTWTO	"B'00000010'" Diagnostic is a WTO
MEMBER NAME --> \$SU ROUTINE(S) ---> \$SJBUNLK in HASCSRJB MACRO(S) -----> \$SJBLOCK TYPE=FREE SJB Unlock routine's inline parameter list					
4	(4)	BITSTRING	1	\$SUFLAG1	\$SJBLOCK macro option flags
		1... ....		\$SU1FREE	"B'10000000'" FREESJB=YES, free the SJB after unlocking it
MEMBER NAME --> \$SYMTT ROUTINE(S) ---> \$SYMTT in HASCSRDS MACRO(S) -----> none SYMREC creation for sniffer					
4	(4)	BITSTRING	1	\$SYMTTF1	\$SYMTT parameter flag
4	(4)	X'1'	0	\$SYM1SNF	"1" Trackgroup falsely thought to be unavail.
4	(4)	X'2'	0	\$SYM1ALT	"2" Trackgroup falsely thought to be available by \$TRACK
4	(4)	X'3'	0	\$SYM1ALS	"3" Trackgroup falsely thought to be available by \$STRAK
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
4	(4)	X'6'	0	\$SYM1JQA	"6" JQASUMSK did not reflect sniffed track group
4	(4)	X'7'	0	\$SYM1R0	"7" Key of first SP00L block <> to signature key
MEMBER NAME --> \$SYSNCRT ROUTINE(S) ---> HASPRDDS in HASCSRIP MACRO(S) -----> \$SYSNCRT SYSIN creation inline parameter list					
4	(4)	BITSTRING	1	SYSNCRT	\$SYSNCRT macro option flags
		1... ....		SYSNORD	"B'10000000'" PDDB_ORDINALITY=YES
MEMBER NAME --> \$TGMSET ROUTINE(S) ---> \$TGMSET in HASPTRAK MACRO(S) -----> \$TGMSET \$TGMSET routine inline parameter list. NOTE: - \$TGFLAG AND \$TGFLAG2 MUST STAY TOGETHER!					
Option flags					
4	(4)	BITSTRING	1	\$TGFLAG	\$TGMSET parameter flag
		1... ....		\$TGCNTYS	"B'10000000'" COUNT=YES, Upd DAS counts
		..1. ....		\$TGTTSET	"B'00100000'" TYPE=TEST, Test bit only
		...1 ....		\$TGTPSET	"B'00010000'" TYPE=SET, Set the bit only



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'30'	0	\$TGTTSET	"\$TGTTSET+\$TGTPSET" TYPE=TESTSET, Test and set
		.... 1...		\$TGQSYES	"B'00001000'" QSUSE=YES, get the QSUSE
		.... .1..		\$TGSETON	"B'00000100'" SET=ON Turn bit on in map
		.... ..1.		\$TGMMQT	"B'00000010'" MQT= was specified
Flags for TGMTYPE=					
5	(5)	BITSTRING	1	\$TGFLAG2	\$TGMSET parameter flag
		1... ....		\$TG2MAP	"B'10000000'" TGMTYPE=TGMAP specified
		.1.. ....		\$TG2BAD	"B'01000000'" TGMTYPE=TGBAD specified
		..1. ....		\$TG2BTRK	"B'00100000'" TGMTYPE=BADTRTG specified
		...1 ....		\$TG20THR	"B'00010000'" TGMTYPE=OTHER specified
MEMBER NAME --> \$#TJEV ROUTINE(S) ---> \$#TJEV in HASPJOS MACRO(S) -----> \$#TJEV \$#TJEV routine inline parameter list.					
4	(4)	BITSTRING	1	\$#TJVFLG	\$#TJEV parameter flag
		1... ....		\$#TADD	"B'10000000'" Add JOE to exclusion vector
		.1.. ....		\$#TSEKCH	"B'01000000'" Search for JOE in excl list
		..1. ....		\$#TSERAN	"B'00100000'" Search for JOE in all lists
		...1 ....		\$#TPURGE	"B'00010000'" Purge JOE from all lists
		.... 1...		\$#TMOVE	"B'00001000'" Move excl bit to new JOE
MEMBER NAME --> \$TRK ROUTINE(S) ---> \$TRACK IN HASPTRAK, \$STRAK IN HASCSRIC MACRO(S) -----> \$TRACK SPOOL SPACE ALLOCATION ROUTINE'S INLINE PARAMETER LIST.					
4	(4)	BITSTRING	1	\$TRFLAG1	\$TRACK MACRO OPTION FLAGS
		...1 ....		\$TR1RSLM	"B'00010000'" Check resource limits
		.... 1...		\$TR1SDB	"B'00001000'" SDB provided
		.... .1..		\$TR1SJIO	"B'00000100'" SJIOB provided
		.... ..1.		\$TR1WRPM	"B'00000010'" WRPRIM=NO, DON'T WRITE PRIMARY IOT
		.... ...1		\$TR1WTNO	"B'00000001'" WAIT=NO, DO NOT WAIT FOR BLOBBING
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
MEMBER NAME --> TRP ROUTINE(S) ---> \$TRACER IN HASCSRIC, HASPEVTL IN HASPEVTL MACRO(S) -----> \$TRACE JES2 EVENT TRACE LOG PROCESSOR INLINE PARAMETER LIST.					
4	(4)	BITSTRING	1	TRPID	TRACE ID
5	(5)	BITSTRING	1	TRPFLAG1	ENVIRON/TYPER-MOVED TO TTETRPET
		1... ....		TRP1USER	"B'10000000'" ENVIRON=USER
		.1.. ....		TRP1STSK	"B'01000000'" ENVIRON=SUBTASK



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1. ....		TRP1JES2	"B'00100000'" ENVIRON=JES2
		...1 ....		TRP1FSS	"B'00010000'" ENVIRON=FSS
EQU B'00001000' RESERVED FOR FUTURE USE EQU B'00000100' RESERVED FOR FUTURE USE EQU B'00000010' RESERVED FOR FUTURE USE					
		.... ...1		TRP1SPIN	"B'00000001'" SPIN THE LOG AT CURRENT TABLE
6	(6)	CHARACTER	8	TRPNAME	TRACE SYMBOL
MEMBER NAME --> TSR ROUTINE(S) ---> \$TOKENSR IN HASCSRIC MACRO(S) -----> \$TOKENSR Name/Token Service parameter list					
4	(4)	BITSTRING	1	\$TSRFLG1	Flags
		1... ....		\$TSR1RET	"B'10000000'" RETRIEVE
		.1.. ....		\$TSR1DEL	"B'01000000'" DELETE
		..1. ....		\$TSR1CRE	"B'00100000'" CREATE
		...1 ....		\$TSR1PRS	"B'00010000'" PERSIST=YES
		.... 1...		\$TSR1CBA	"B'00001000'" CBADDR= was specified
MEMBER NAME --> VALSCQJQ ROUTINE(S) ---> VALSCQJQ IN HASPRTAM MACRO(S) -----> Passes inline parameter list for \$SCQJQE validation					
4	(4)	ADDRESS	1	\$VSJFLAG	VALSCQJQ parameter flag
		1... ....		\$RCPINIT	"B'10000000'" Remote console processor initialization
Member name --> \$VFL Routine(s) ---> \$VLF1 in HASCSRIC Macro(s) -----> \$VFL Passes inline parameter list for \$VFL processing					
4	(4)	ADDRESS	1	\$VFLOPCD	\$VFL operation code
4	(4)	X'0'	0	\$VFLOPNC	"0" NC - AND character
4	(4)	X'6'	0	\$VFLOPOC	"6" OC - OR character
4	(4)	X'C'	0	\$VFLOPXC	"12" XC - XOR character
4	(4)	X'12'	0	\$VFLOPMV	"18" MVC - Move character
MEMBER NAME --> \$WT ROUTINE(S) ---> \$WAIT IN HASPNUC MACRO(S) -----> \$WAIT, \$XECBSRV PCE WAIT MACRO INTERFACE TO THE JES2 DISPATCHER. Note: Update both HASMPERF and the WTCB DSECT in \$PERFCB if this inline parameter list changes.					
4	(4)	BITSTRING	1	\$WTFLAG1	\$WAIT MACRO OPTION FLAGS
		1... ....		\$WT1RES	"B'10000000'" \$WAIT FOR A RESOURCE
		.1.. ....		\$WT1XECB	"B'01000000'" \$WAIT ON AN EXTENDED ECB
		..1. ....		\$WT1RETN	"B'00100000'" \$WAIT IS TO RETURN WITHOUT WAITING (USED BY \$XECBSRV)
		...1 ....		\$WT1INHNB	"B'00010000'" INHIBIT=NO specified on \$WAIT call (ie ignore \$WTINHBT)
		.... 1...		\$WT1MCLR	"B'00001000'" PERFDATA monitor caller id



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
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
MEMBER NAME --> \$WS ROUTINE(S) ---> SRVWSCAN IN HASPSERV MACRO(S) -----> \$WSSCAN SCAN THE WS OPERAND AND CREATE A WORK SELECTION LIST PARAMETER LIST					
4	(4)	ADDRESS	1	\$WSLISTL	
MEMBER NAME --> \$WSU ROUTINE(S) ---> SRVSETUP IN HASPSERV MACRO(S) -----> \$WSSETUP SCAN THE WS OPERAND AND CREATE A WORK SELECTION LIST PARAMETER LIST					
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'	0	\$WSTUNK	"0" Unknown CB type
7	(7)	X'1'	0	\$WSTWSP	"1" WSP was passed
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.					
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	\$WRRROUTE	WTO Routing Information
8	(8)	ADDRESS	1	\$WRLEN	Message Length
9	(9)	BITSTRING	1	\$WRLINTP	MLWTO line type
9	(9)	X'A'	0	\$WRSTEND	"*" End of standard form parameter list
MEMBER NAME --> \$WT ROUTINE(S) ---> \$PREWTO IN HASCSRIC MACRO(S) -----> \$WTO USER AND SUBTASK ENVIRONMENT \$WTO INLINE PARAMETER LIST.					
4	(4)	ADDRESS	1	\$WTPFLAG	JES2 Parameter flag byte
5	(5)	ADDRESS	1	\$WTCLASS	JES2 DESCRIPTOR CODE
6	(6)	ADDRESS	1	\$WTRROUTE	JES2 ROUTE CODE
7	(7)	BITSTRING	1	\$WTLINTP	MLWTO line type
\$WTO IN-LINE PARAMETER FLAGS \$WRPFLAG and \$WTPFLAG. For \$WTPFLAG only \$WTOJOBY and \$WTODOMT are processed.					



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		\$WTOSTDL	"B'10000000'" STANDARD OR LIST FORM \$WTO, CMB TEMPLATE FOLLOWS DIRECTLY
		.1.. ..		\$WTOCMBL	"B'01000000'" MF=EX SPECIFIED (LONG CMB TMPL)
		..1. ....		\$WTOJOBY	"B'00100000'" JOB=YES SPECIFIED
		...1 ....		\$WTOWAIT	"B'00010000'" WAIT=YES SPECIFIED
		...1 ....		\$WTOSJB	"B'00010000'" SJB is in R15 (User/ subtask environment)
		.... 1...		\$WTOLNRO	"B'00001000'" MESSAGE LENGTH IN R0 (BYTE 3)
		.... .1..		\$WTODOMT	"B'00000100'" Delete outstanding action message if task terminates
		.... ..1.		\$WTODMND	"B'00000010'" Use \$GETCMB DEMANDCMB=YES if necessary
		.... ..1.		\$WTOAJSB	"B'00000010'" Use address space level JSAB (User/subtask environment)
		.... ...1		\$WTOTEXT	"B'00000001'" TEXT= specified on \$WTO (implies R0 - CONNECT and R1 - TEXT)
\$WRRROUTE - Logical console definitions					
		.... ...1		\$LOG	"X'01'" SYSTEM LOG CONSOLE
		.... ..1.		\$ERR	"X'02'" ERROR CONSOLE MCS ROUTING CODE=(10)
		.... .1..		\$UR	"X'04'" UNIT RECORD OPERATIONS AREA MCS ROUTING CODE=(7)
		.... 1...		\$TP	"X'08'" TELE-PROCESSING OPERATIONS MCS ROUTING CODE=(8)
		...1 ....		\$TAPE	"X'10'" TAPE HANDLING OPERATIONS MCS ROUTING CODE=(3,4,5,6)
		..1. ....		\$MAIN	"X'20'" CHIEF OPERATORS AREA MCS ROUTING CODE=(1,2)
		.1.. ....		\$SEC	"X'40'" SYSTEM SECURITY MCS ROUTING CODE=(9)
		1... ....		\$SPARE1	"X'80'" SPARE 1 MCS ROUTING CODE=(14)
		.111 1111		\$ALL	"X'7F'" ALL UNRESERVED LOCAL CONS.
\$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)					
		.... .1..		\$MCINFO	"X'04'" MASTER CONSOLE INFORMATION
		.... 1...		\$PGINFO	"X'08'" PROGRAMMER INFORMATION
\$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.					
		...1 ....		\$TRIVIA	"X'10'" NON-ESSENTIAL MESSAGES
		..11 ....		\$NORMAL	"X'30'" NORMAL MESSAGES
		.1.. ....		\$JOBSTAT	"X'40'" JOB STATUS MESSAGES
		.1.1 ....		\$ACTION	"X'50'" MESSAGES REQUIRING OPERATOR ACTION



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.111 ....		\$ALWAYS	"X'70'" MESSAGES WHICH SHOULD ALWAYS BE SENT
		1... ....		\$DOMACT	"X'80'" ACTION REQUIRING A \$DOM FLAG
7	(7)	X'1'	0	\$LO	"1" LOW PRIORITY
7	(7)	X'4'	0	\$ST	"4" STANDARD PRIORITY
7	(7)	X'7'	0	\$HI	"7" HIGH PRIORITY
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					
4	(4)	CHARACTER	8	\$VWPMODN	MODULE NAME PARAMETER 1
12	(C)	CHARACTER	8	\$VWPFUNC	FUNCTION ID PARAMETER 2
MEMBER NAME --> XGOALSYM ROUTINE(S) ---> XGOALSYM IN HASPXEQ MACRO(S) -----> N/A Passes the label and the WSC address where an anomaly was found. A "count" is passed when appropriate. The WSC address and counts are passed in registers. See XGOALSYM prologue.					
4	(4)	CHARACTER	8	\$XGLABEL	Label where anomaly found
12	(C)	BITSTRING	1	\$XGFLAG	Flags
		1... ....		\$XGCOUNT	"B'10000000'" Old WSCIACT count provided
13	(D)	BITSTRING	1		Not used
MEMBER NAME --> \$XM ROUTINE(S) ---> \$XMPOST IN HASCSRIC MACRO(S) -----> \$XMPOST CROSS MEMORY POST SERVICE ROUTINE INLINE PARAMETER LIST					
4	(4)	BITSTRING	1	\$XMFLAG1	FLAG 1
		1... ....		\$XM1XMP	"B'10000000'" CROSS MEMORY PLIST WAS PASSED
		.1.. ....		\$XM1QUIK	"B'01000000'" QUICK POSTING IS ALLOWED
		..1. ....		\$XM1COMP	"B'00100000'" COMPLETION CODE WAS CODED
		...1 ....		\$XM1LPST	"B'00010000'" Parm list mapping that enables lost POST detection being used
		.... 1...		\$XM1STKN	"B'00001000'" STOKEN= was specified
		.... .1..		\$XM1TTKN	"B'00000100'" TTOKEN= was specified
		.... ..1.		\$XM1NPST	"B'00000010'" TERM_TCB=NOPOST specified
		.... ...1		\$XM1IRB	"B'00000001'" Perform POST via IRB
ROUTINE(S) ---> \$ZGLMSG in HASCSRAX Equates for jobgroup log formatting options (in bits 0-31 of R15)					
		.... ...1		\$ZGLLAMN	"B'00000001'" Add JES2 member name
		.... ..1.		\$ZGLLASN	"B'00000010'" Add MVS system name
		.... .1..		\$ZGLLALT	"B'00000100'" Add local time 'hh.mm.ss'
		.... 1...		\$ZGLLAUT	"B'00001000'" Add UTC time 'hh.mm.ss'



Table 67. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
	...1 ....			\$ZGLLWKA	"B'00010000'" Address of 256 byte work area is in R2
	..1. ....			\$ZGLLTMS	"B'00100000'" Message timestamp is in R3 (bits 0-63)
MEMBER NAME --> \$NFP ROUTINE(S) ---> \$NFYURL in HASPJQS MACRO(S) -----> \$NFYURL Inline parameter list for HTTP Notify requests.					
4	(4)	BITSTRING	1	\$NFPEVT	Job event type
4	(4)	X'1'	0	\$NFPERDY	"1" EVENT=READY
4	(4)	X'2'	0	\$NFPEACT	"2" EVENT=ACTIVE
4	(4)	X'3'	0	\$NFPECOM	"3" EVENT=COMPLETE (not used)
MEMBER NAME --> \$JSP ROUTINE(S) ---> JSONSERV in HASCSRIC MACRO(S) -----> \$JSON Inline parameter list for JSON parsing services.					
4	(4)	BITSTRING	1	\$JSPREQ	Request type
4	(4)	X'1'	0	\$JSPRPAR	"1" REQUEST=PARSE
4	(4)	X'2'	0	\$JSPRCLN	"2" REQUEST=CLEANUP
4	(4)	X'3'	0	\$JSPRGET	"3" REQUEST=GET
4	(4)	X'4'	0	\$JSPRCNT	"4" REQUEST=COUNT
5	(5)	BITSTRING	1	\$JSPMOD	Request modifier
	1... ....			\$JSPMFST	"B'10000000'" MOD=FIRST
	.1.. ....			\$JSPMLST	"B'01000000'" MOD=LAST
	..1. ....			\$JSPMNXT	"B'00100000'" MOD=NEXT
6	(6)	BITSTRING	1	\$JSPCON	Value conversion bits
	1... ....			\$JSPCUPP	"B'10000000'" CONV=UPPER
	.1.. ....			\$JSPCSTR	"B'01000000'" CONV=STRIP
7	(7)	BITSTRING	1		Reserved
8	(8)	ADDRESS	4	\$JSPJTAB	Pointer to \$JSONTAB table describing the format of the JSON document to be parsed
12	(C)	ADDRESS	4	\$JSPJENT	Pointer to \$JSONTAB entry describing the JSON element to be read or modified
MEMBER NAME --> HCV ROUTINE(S) ---> HCNVTIME in HASCSRIC MACRO(S) -----> \$CALL Inline parameter list for STCK and STCKE conversion services.					
4	(4)	BITSTRING	1	HCVFLAG1	Processing flags
	1... ....			HCVF1EXT	"B'10000000'" Input is a 16-byte (ETOD) timestamp

Table 68. Cross Reference for \$PARMLST

Name	Offset	Hex	Tag
\$\$POFLG1	4		
\$\$P01BRA	4		80
\$\$P01BR3	4		8



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$\$P01ELM	4	20
\$\$P01RUN	4	10
\$\$P01SYS	4	40
\$/#ADDFLG	4	
\$/#ADDJOA	4	80
\$/#ADDRSL	4	40
\$/#BACTOF	4	40
\$/#BACTON	4	80
\$/#BCKPNO	4	1
\$/#BCKPON	5	80
\$/#BDEVID	4	2
\$/#BDODEV	4	4
\$/#BPOST	4	8
\$/#BREAL	4	10
\$/#BSYFLG	4	
\$/#BSYFL2	5	
\$/#BTRACE	4	20
\$/#DSFJOA	4	80
\$/#DSPFLG	4	
\$/#JADD	4	10
\$/#JALL	4	2
\$/#JANCHR	5	10
\$/#JANY	4	1
\$/#JATTCH	5	40
\$/#JCOND	4	4
\$/#JDETC	5	80
\$/#JFORCE	4	8
\$/#JINIT	5	20
\$/#JLONG	4	80
\$/#JPURGE	4	20
\$/#JSERCH	4	40
\$/#JWLFLG	4	
\$/#JWLFL2	5	
\$/#PFRJOA	4	8
\$/#PJWEL	4	10
\$/#PUTFLG	4	
\$/#RBDFLG	4	
\$/#REPC	4	40
\$/#REPFLG	4	



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$#REPREM	4	8
\$#REPW	4	80
\$#RQNONE	4	80
\$#RQOTH	4	20
\$#RQRBLD	4	40
\$#TADD	4	80
\$#TJVFLG	4	
\$#TMOVE	4	8
\$#TPURGE	4	10
\$#TSERAN	4	20
\$#TSERCH	4	40
\$ACTION	7	50
\$AE0JFL1	4	
\$AE0J1EM	4	40
\$AE0J1JT	4	80
\$ALL	7	7F
\$ALWAYS	7	70
\$ARCFLG1	5	
\$ARCFLG2	6	
\$ARCREST	4	
\$ARC1ASI	5	80
\$ARC1JQE	5	40
\$ARC1SJB	5	20
\$ARC2AR	6	80
\$ARC2J2M	6	20
\$ARC2TSK	6	8
\$ARC2USR	6	10
\$ARC264	6	40
\$ARTBERT	4	4
\$ARTFLG1	5	
\$ARTFLG2	6	
\$ARTJOE	4	3
\$ARTJQE	4	2
\$ARTREST	4	
\$ARTSPOL	4	1
\$ART1ASI	5	80
\$ART1JQE	5	40
\$ART1SJB	5	20
\$ART2AR	6	80



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$ART2J2M	6	20
\$ART2TSK	6	8
\$ART2USR	6	10
\$ART264	6	40
\$BTGBMQR	4	20
\$BTGBMTR	4	80
\$BTGBTGM	4	40
\$BTGFLG1	4	
\$BTMACT	4	
\$BTMCLR	4	1C
\$BTMCRON	5	40
\$BTMCRT	4	0
\$BTMCRTC	5	80
\$BTMDSTC	4	2C
\$BTMDSTP	4	4
\$BTMERCD	5	10
\$BTMFLG	5	
\$BTMNOAT	5	20
\$BTMRST	4	C
\$BTMSET	4	8
\$BTMSETR	4	20
\$BTMSOFF	4	18
\$BTMSON	4	14
\$BTMTEST	4	10
\$BTMTSRF	4	28
\$BTMTSRO	4	24
\$CBCKPTB	7	
\$CBCKPTF	C	
\$CBIFLG1	4	
\$CBIFLG2	5	
\$CBIFLG3	6	
\$CBISECT	16	
\$CBISEQF	1E	
\$CBLFLG1	4	
\$CBL1NWA	4	80
\$CBSPOLP	A	
\$CBSTORP	8	
\$CBVERID	E	
\$CBVERIX	12	



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$CB1COND	4	1
\$CB1EXIT	4	40
\$CB1FREE	4	4
\$CB1NOVF	4	20
\$CB1NSJB	4	10
\$CB1SJIO	4	8
\$CB1WAIT	4	2
\$CB2AM24	5	1
\$CB2FSSM	5	20
\$CB2MQTR	5	8
\$CB2NORF	5	2
\$CB2SPLQ	5	4
\$CB2SUPM	5	10
\$CB2TWAT	5	40
\$CB2WRIT	5	80
\$CB3HAMW	6	80
\$CDCFLG1	5	
\$CDCTAPT	4	2
\$CDCTCDC	4	5
\$CDCTDCT	4	1
\$CDCTLIM	4	7
\$CDCTPAD	4	8
\$CDCTRAT	4	4
\$CDCTSCK	4	3
\$CDCTXRQ	4	6
\$CDCTYPE	4	
\$CDC1BRC	5	4
\$CDC1BR0	5	20
\$CDC1CRE	5	80
\$CDC1DC2	5	1
\$CDC1INV	5	10
\$CDC1SYN	5	40
\$CDC1VAL	5	8
\$CDC164B	5	2
\$CDSFLG1	4	
\$CDS1NCK	4	40
\$CDS1RSZ	4	80
\$CFXFLG1	4	
\$CFX1RSP	4	80



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$CKADEF	4	20
\$CKANEW	4	40
\$CKAOLD	4	80
\$CKAPARF	4	
\$CKPARMF	4	
\$CKPID	6	
\$CKPLENX	4	20
\$CKPPOST	4	80
\$CKPUNK	4	40
\$CKQRTN	4	
\$CKSADDM	4	3
\$CKSDELM	4	4
\$CKSFLG1	5	
\$CKSOPT	4	5
\$CKSREQ	4	
\$CKSSTOP	4	2
\$CKSSTRT	4	1
\$CKS1ALL	5	80
\$CKS1LVC	5	40
\$CKS1XRQ	5	20
\$CMSFBTH	4	C0
\$CMSFCMS	4	40
\$CMSFFLG	4	
\$CMSFLOC	4	80
\$CMSGBTH	4	C0
\$MSGCMS	4	40
\$MSGFLG	4	
\$MSGLOC	4	80
\$CPL1	4	
\$CPL1CDY	4	80
\$CPL1HXN	4	40
\$CRJFLG1	4	
\$CRJ1ALC	4	20
\$CRJ1CLR	4	8
\$CRJ1FRE	4	10
\$CRSALL	4	80
\$CRSCLE	4	20
\$CRSCLH	4	40
\$CRSFLG	4	



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$CWTOFLG	4	
\$CWTOLST	4	40
\$CWTOMVC	4	80
\$CWTONWT	4	20
\$DGBACT	4	
\$DGBCAT	6	2
\$DGBCB	6	
\$DGBCKPT	4	3
\$DGBDYN	6	FF
\$DGBFLAG	5	
\$DGBFLG2	7	
\$DGBFREE	4	5
\$DGBFTCH	4	1
\$DGBINT	6	0
\$DGBJQE	6	1
\$DGBNAME	5	10
\$DGBNEXT	4	2
\$DGBNRDD	5	1
\$DGBNUPD	5	2
\$DGBQSUS	5	40
\$DGBRETN	4	4
\$DGBSPEC	5	4
\$DGBSTSP	4	6
\$DGBTNAM	8	
\$DGBTOKN	5	8
\$DGBUPDT	5	20
\$DGBWAIT	5	80
\$DGBWSCQ	6	3
\$DGB2CRE	7	80
\$DGB2NEV	7	8
\$DGB2PAD	7	20
\$DGB2PBE	7	10
\$DGB2UNC	7	4
\$DGB2UNK	7	40
\$DGDFLG1	4	
\$DGDFLG2	5	
\$DGD1BRO	4	4
\$DGD1CRE	4	2
\$DGD1FET	4	80



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$DGD1FRE	4	8
\$DGD1FTN	4	40
\$DGD1NUP	4	10
\$DGD1RES	4	1
\$DGD1UPD	4	20
\$DGD2ACC	5	80
\$DGD2CAC	5	40
\$DGD2FST	5	10
\$DGD2WAI	5	20
\$DGGFLG1	4	
\$DGGFLG2	5	
\$DGG1CKP	4	2
\$DGG1CRE	4	80
\$DGG1FET	4	20
\$DGG1FRE	4	4
\$DGG1NUP	4	8
\$DGG1RED	4	40
\$DGG1UPD	4	10
\$DGG1WAI	4	1
\$DGG2FTN	5	80
\$DGTFLG1	4	
\$DGTFLG2	5	
\$DGT1AQR	4	2
\$DGT1AQS	4	4
\$DGT1FET	4	80
\$DGT1FTN	4	40
\$DGT1TYP	4	1
\$DGT1UPD	4	20
\$DGT2BCH	5	2
\$DGT2BRO	5	80
\$DGT2CPY	5	4
\$DGT2CRE	5	10
\$DGT2FRE	5	8
\$DGT2JBC	5	20
\$DGT2WAI	5	40
\$DGVFLG1	4	
\$DGV1CKP	4	2
\$DGV1CRE	4	40
\$DGV1FET	4	80



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$DGV1FRE	4	4
\$DGV1NUP	4	8
\$DGV1RED	4	20
\$DGV1UPD	4	10
\$DGV1WAI	4	1
\$DGWFLG1	4	
\$DGWFLG2	5	
\$DGW1BRO	4	1
\$DGW1CKP	4	4
\$DGW1CRE	4	2
\$DGW1FET	4	80
\$DGW1FRE	4	8
\$DGW1FTN	4	40
\$DGW1NUP	4	10
\$DGW1UPD	4	20
\$DGW2WAI	5	80
\$DILCVER	5	1
\$DILFLG1	6	
\$DILFLG2	7	
\$DILF1#P	6	1
\$DILF1CL	6	80
\$DILF1FL	6	10
\$DILF1IM	6	40
\$DILF1ND	6	4
\$DILF1PO	6	8
\$DILF1QP	6	2
\$DILF1WA	6	20
\$DILF2CK	7	10
\$DILF2FN	7	4
\$DILF2FP	7	2
\$DILF2FT	7	1
\$DILF2GM	7	8
\$DILF2PA	7	80
\$DILF2QS	7	40
\$DILF2SP	7	20
\$DILIMME	8	
\$DILTJOE	4	2
\$DILTJQE	4	1
\$DILTYPE	4	



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$DILVERS	5	
\$DJACKPT	0	10
\$DJACT	0	
\$DJAFET	0	4
\$DJAFETN	0	0
\$DJAFLD	0	24
\$DJAFREE	0	18
\$DJALOCK	0	8
\$DJAQLOK	0	20
\$DJAREFR	0	14
\$DJARET	0	C
\$DJASETA	0	1C
\$DJCA1CJ	4	2
\$DJCA1C0	4	4
\$DJCA1FL	4	8
\$DJCA1TS	4	1
\$DJCHAIN	6	
\$DJCVER	3	2
\$DJFLAG2	1	
\$DJFLAG3	2	
\$DJFLAG4	4	
\$DJFLAG5	5	
\$DJLEN	6	8
\$DJVERS	3	
\$DJXFJAX	5	40
\$DJXFLGS	5	
\$DJXFNCK	5	20
\$DJXFWT	5	80
\$DJXREQ	4	
\$DJXRQCK	4	3
\$DJXRQCR	4	1
\$DJXRQFE	4	2
\$DJXRQFR	4	5
\$DJXRQRS	4	6
\$DJXRQRT	4	4
\$DJ2CONF	1	8
\$DJ2DSRV	1	80
\$DJ2KEEP	1	20
\$DJ2NWAT	1	10



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$DJ2POST	1	4
\$DJ2SPCL	1	40
\$DJ2UCON	1	2
\$DJ2URFR	1	1
\$DJ3#PSY	2	4
\$DJ3MAX	2	2
\$DJ3NUPD	2	10
\$DJ3QPSY	2	8
\$DJ3RCVY	2	1
\$DJ3READ	2	80
\$DJ3RELE	2	40
\$DJ3WDEF	2	20
\$DOACKPT	1	C
\$DOACT	1	
\$DOACTOR	6	
\$DOAFET	1	4
\$DOAFETN	1	0
\$DOAFLD	1	10
\$DOAFREE	1	18
\$DOAQLOK	1	1C
\$DOAREFR	1	14
\$DOARET	1	8
\$DOASETA	1	20
\$DOCHAIN	6	
\$DOCKLEN	8	
\$DOCKOFF	6	
\$DOCVER	0	1
\$DOFLAG2	2	
\$DOFLAG3	3	
\$DOFLAG4	4	
\$DOFLAG5	5	
\$DOLN	8	A
\$DOMACT	7	80
\$DOVERS	0	
\$D02CONF	2	4
\$D02DSRV	2	80
\$D02NR0L	2	2
\$D02NWAT	2	10
\$D02RCVY	2	1



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$D02READ	2	20
\$D02SPCL	2	40
\$D02WDEF	2	8
\$D03KEEP	3	40
\$D03MAX	3	2
\$D03NUPD	3	10
\$D03POST	3	1
\$D03QLOB	3	8
\$D03RELE	3	80
\$D03UCON	3	20
\$D04#PSY	4	40
\$D04KPJW	4	20
\$D04MNJT	4	10
\$DPREBER	5	4
\$DPREJOE	5	8
\$DPREJQE	5	10
\$DPREMSG	5	1
\$DPRETRK	5	2
\$DPRFLGS	5	
\$DPRFLG2	6	
\$DPRFNCK	5	20
\$DPRFPRA	5	40
\$DPRFWT	5	80
\$DPRREQ	4	
\$DPRRINA	4	7
\$DPRRQCK	4	3
\$DPRRQCR	4	1
\$DPRRQFE	4	2
\$DPRRQFR	4	5
\$DPRRQRS	4	6
\$DPRRQRT	4	4
\$DPRSMAL	6	80
\$DSDFLG1	4	
\$DSDFLG2	5	
\$DSD2FOR	5	80
\$DSRFLG1	4	
\$DSR1FRE	4	40
\$DSR1GET	4	80
\$DSR1LIV	4	20



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$DSR1RFR	4	10
\$DSTCHAR	4	80
\$DSTFLG1	4	
\$DSTFLG2	5	
\$DSTGNRC	4	20
\$DSTNRP	4	8
\$DSTNSPR	4	1
\$DSTPRIM	4	4
\$DSTRDT	4	40
\$DSTUSER	4	2
\$DST1EXP	4	10
\$DST2DFM	5	40
\$DST2IGN	5	80
\$DST2IGS	5	8
\$DST2IPD	5	4
\$DST2IPY	5	10
\$DST2NUS	5	20
\$DST2NVU	5	2
\$DTRFLG1	4	
\$DTRMASD	4	2
\$DTRMQTR	4	4
\$DTRNAME	6	
\$DTRRECV	1E	
\$DTRRJCT	4	40
\$DTRRJQE	4	80
\$DTRRNAM	4	10
\$DTRRND	4	20
\$DTRRSIG	4	8
\$DTRSECT	E	
\$DTRSEQ	16	
\$DVFLG1	4	
\$DVLENG	5	
\$DV1CHAR	4	40
\$DV1JQE	4	80
\$ERR	7	2
\$ESTCRAT	4	80
\$ESTDLET	4	40
\$ESTFCN	4	
\$ESTFLAG	5	



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$ESTFNDM	5	80
\$ESTNBR	A	
\$ESTRECX	6	
\$ESTRTYA	C	
\$FACMOSQ	C	4
\$FACSECT	4	
\$FACSEQF	C	
\$FBFLAG1	4	
\$FBMCTAC	6	3
\$FBMCTAD	6	1
\$FBMCTAS	6	2
\$FBMCTA8	6	12
\$FBMCTDC	6	5
\$FBMCTDS	6	4
\$FBMCTEP	6	6
\$FBMCTHX	6	7
\$FBMCTKM	6	9
\$FBMCTOF	6	A
\$FBMCTPE	6	3
\$FBMCTPN	6	1
\$FBMCTPW	6	2
\$FBMCTRH	6	8
\$FBMCTSE	6	E
\$FBMCTSI	6	B
\$FBMCTSM	6	F
\$FBMCTSR	6	C
\$FBMCTST	6	D
\$FBMCTUI	6	10
\$FBMCTUR	6	11
\$FBMCTYP	6	
\$FBMFLG1	4	
\$FBMFLG2	5	
\$FBMID	7	
\$FBMIDV	7	81
\$FBMPLEN	10	14
\$FBMSECT	8	
\$FBMSEQF	10	
\$FBM1ABA	4	1
\$FBM1ABB	4	2



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$FBM1ADD	4	40
\$FBM1CNV	4	4
\$FBM1INT	4	80
\$FBM1LAS	4	20
\$FBM1MFL	4	10
\$FBM1TTB	4	8
\$FBM2ADJ	5	2
\$FBM2IFI	5	8
\$FBM2INA	5	4
\$FBM2IVA	5	10
\$FBM2MTB	5	40
\$FBM2RES	5	80
\$FBM2TTZ	5	1
\$FBM2WID	5	20
\$FBSTORP	6	
\$FB1HOLD	4	20
\$FB1PROT	4	80
\$FDISECT	6	
\$FDISEQF	E	
\$FDITCHR	4	1
\$FDITHEX	4	2
\$FDITUSI	4	3
\$FDITYPE	4	
\$FEVFLG1	7	
\$FEVMOSQ	12	A
\$FEVPVER	4	
\$FEVRCC	5	3
\$FEVRCU	5	1
\$FEVRDC	5	4
\$FEVRDU	5	2
\$FEVREQ	5	
\$FEVSECT	A	
\$FEVSEQF	12	
\$FEVUIFR	6	40
\$FEVUIVE	6	80
\$FEVUJDR	6	20
\$FEVUNUL	6	10
\$FEVUSE	6	
\$FEVWVER	8	



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$FEV1CSA	7	80
\$FGAFLG1	4	
\$FGAPLEN	E	12
\$FGASECT	6	
\$FGASEQF	E	
\$FGA1ACM	4	4
\$FGA1EYE	4	10
\$FGA1GNS	4	40
\$FGA1GTN	4	20
\$FGA1LUP	4	80
\$FGA1STD	4	E0
\$FGA1ZPM	4	8
\$FGFSECT	4	
\$FGFSEQF	C	
\$FIDCOFF	6	
\$FIDFLG1	4	
\$FID1ABN	4	40
\$FID1CNT	4	80
\$FIECOFF	6	
\$FIEFLG1	4	
\$FIE1ABN	4	40
\$FIE1CNT	4	80
\$FIE1HEA	4	20
\$FIGCOFF	6	
\$FIGFLG1	4	
\$FIG1CNT	4	80
\$FLEAPAR	16	
\$FLEFLG1	4	
\$FLESECT	6	
\$FLESEQF	E	
\$FLE1RC	4	80
\$FMFLAG1	4	
\$FMSFLG1	4	
\$FMSPLEN	E	12
\$FMSSECT	6	
\$FMSSEQF	E	
\$FMS1BLN	4	40
\$FMS1CBL	4	20
\$FMS1IND	4	10



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$FMS1WID	4	80
\$FM1\$ERR	4	80
\$FM1CLOS	4	40
\$FPRFLG1	4	
\$FPRSECT	6	
\$FPRSEQF	E	
\$FPR1MLT	4	80
\$FREFLG1	4	
\$FRE1JQA	4	20
\$FRE1NTR	4	40
\$FRE1NW	4	80
\$FSAMOSQ	C	4
\$FSASECT	4	
\$FSASEQF	C	
\$FSTFLG1	4	
\$FSTFLG2	5	
\$FSTSECT	6	
\$FSTSEQF	E	
\$FST1FRE	4	3
\$FST1GTC	4	2
\$FST1GTU	4	1
\$FST2CTM	5	20
\$FST2CTS	5	40
\$FST2FAD	5	80
\$FST2PTM	5	8
\$FST2PTS	5	10
\$FST2TAB	5	78
\$FTBFLG1	4	
\$FTB1CHN	4	80
\$FTRFLG1	4	
\$FTR1IOW	4	80
\$FUCFLG1	4	
\$FUC1UNP	4	80
\$GCFLAG1	4	
\$GCRSVRD	5	
\$GCSIZE	6	
\$GC1LPRM	4	80
\$GFFLG1	C	
\$GFFLG2	F	



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$GFFLG3	4	
\$GFFLG4	5	
\$GFKEY	D	
\$GFLENV	8	
\$GFSUBPL	E	
\$GF1AR15	C	20
\$GF1CHK0	C	8
\$GF10HOM	C	0
\$GF10PRI	C	1
\$GF10SEC	C	2
\$GF10SYS	C	3
\$GF1RS64	C	10
\$GF2FMN	F	1
\$GF2LC24	F	10
\$GF2LC31	F	20
\$GF2PGB	F	4
\$GF2RS31	F	40
\$GF2UNCD	F	2
\$GF3BUFR	4	40
\$GF3FREE	4	10
\$GF3HTCB	4	20
\$GF3JTCB	4	4
\$GF3LVR0	4	80
\$GF3PSWK	4	1
\$GF3TCBK	4	2
\$GF3TCBY	4	8
\$GF4BAKR	5	8
\$GF4NOLV	5	10
\$GF4AUX	5	4
\$GF4SPR0	5	80
\$GF4STOR	5	40
\$GF4TREG	5	2
\$GF4ZERO	5	20
\$GJLFLG1	4	
\$GJL1JQA	4	80
\$GJL1WAI	4	40
\$GNHFLG1	4	
\$GNH1WAT	4	80
\$GPWABND	5	40



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$GPWWAIT	5	80
\$GTAFLG1	5	
\$GTAH1ST	5	80
\$GTATYPE	4	
\$GTBFLG1	4	
\$GTBFTYP	5	
\$GTB1FIX	4	40
\$GTB1LOW	4	10
\$GTB1MUL	4	20
\$GTB1WAT	4	80
\$GTCFLG1	4	
\$GTC1DMC	4	40
\$GTC1WAT	4	80
\$GTTBUSE	4	
\$GTWKCND	5	80
\$GTWKFL1	5	
\$GTWKLOC	5	20
\$GTWKL64	5	8
\$GTWKRO	5	10
\$GTWKUSE	6	
\$GTWKWAT	5	40
\$GUCFLG1	4	
\$GUC1CNT	4	80
\$GUC1UNT	4	40
\$HI	7	7
\$IBFLAG1	4	
\$IB1DAUG	4	8
\$IB1DNCH	4	2
\$IB1DPDB	4	80
\$IB1DPRI	4	10
\$IB1DSJI	4	4
\$IB1DSPN	4	40
\$IB1D2ND	4	20
\$ICFLAG1	4	
\$IC1IOT	4	20
\$IC1JOE	4	10
\$IC1LFRE	4	8
\$IC1LKNO	4	80
\$IC1LOCK	4	40



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$JCLSNS	4	40
\$JCLSRM	4	80
\$JCNFLG1	4	
\$JCNØPMG	4	100
\$JCN1CJ	4	10
\$JCN1CJO	4	8
\$JCN1JZD	4	2
\$JCN1MSG	4	4
\$JCN1PRO	4	80
\$JCN1TST	4	40
\$JCN1TSU	4	20
\$JDNADEA	4	28
\$JDNADFA	4	1C
\$JDNADOE	4	8
\$JDNADOT	4	2C
\$JDNADWH	4	24
\$JDNADZE	4	4
\$JDNCANJ	4	5C
\$JDNCANZ	4	54
\$JDNCHKE	4	64
\$JDNCHKJ	4	60
\$JDNCKZO	4	3C
\$JDNCRCZ	4	98
\$JDNCRJS	4	10
\$JDNCRTN	4	84
\$JDNCRTZ	4	0
\$JDNDELZ	4	48
\$JDNDEPT	5	80
\$JDNDESN	4	88
\$JDNDESZ	4	38
\$JDNDISZ	4	50
\$JDNENDZ	4	34
\$JDNENJS	4	18
\$JDNFACT	5	40
\$JDNFLG	5	
\$JDNFREZ	4	9C
\$JDNICON	4	30
\$JDNIDEP	4	20
\$JDNIJOB	4	C



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$JDNINCV	4	A0
\$JDNINND	4	8C
\$JDNJSJO	4	14
\$JDNMZOD	5	8
\$JDNNTRL	4	94
\$JDNOPER	4	
\$JDNPCON	4	74
\$JDNPJOB	4	44
\$JDNPURG	5	20
\$JDNPURJ	4	68
\$JDNPURZ	4	58
\$JDNRJOB	4	40
\$JDNSCAN	5	10
\$JDNSDJC	4	90
\$JDNSSC	4	7C
\$JDNSUSP	5	4
\$JDNVERZ	4	4C
\$JDNZAPJ	4	A4
\$JDNZAPZ	4	78
\$JDNZOST	4	6C
\$JDPRTTRP	4	70
\$JDVERZC	4	80
\$JLMASCB	4	20
\$JLMJQE	4	40
\$JLMRC	5	
\$JLMRTN	4	
\$JLMSJB	4	80
\$JOBCLAV	4	
\$JOBSTAT	7	40
\$JSMACTA	4	1
\$JSMACTN	4	
\$JSMACTX	4	2
\$JSMFLGS	7	
\$JSMJQE	7	80
\$JSMSJB	7	40
\$JSMSYAS	6	3
\$JSMSYCV	6	1
\$JSMSYIN	6	2
\$JSMSYMT	6	



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$JSMSYNF	6	4
\$JSMTBCL	5	2
\$JSMTBJS	5	1
\$JSMTBLF	5	
\$JSMTBSS	5	3
\$JSPCON	6	
\$JSPCSTR	6	40
\$JSPCUPP	6	80
\$JSPJENT	C	
\$JSPJTAB	8	
\$JSPMFST	5	80
\$JSPMLST	5	40
\$JSPMNXT	5	20
\$JSPMOD	5	
\$JSPRCLN	4	2
\$JSPRCNT	4	4
\$JSPREQ	4	
\$JSPRGET	4	3
\$JSPRPAR	4	1
\$LGFLAG1	5	
\$LGRQSTR	7	
\$LGSUBP	4	
\$LG1MFRE	5	80
\$LG1TXTL	6	
\$LG1WTO	5	40
\$LO	7	1
\$LOG	7	1
\$LVFLAG1	4	
\$LVQFLAG	5	
\$LVQOFF	6	
\$LV1QSE	4	80
\$LV1WAIT	4	40
\$MAIN	7	20
\$MCADDR	6	80
\$MCBYTES	5	2
\$MCCOMMN	6	4000
\$MCDELET	6	20
\$MCDYNAM	6	40
\$MCFLAG1	4	



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$MCINFO	7	4
\$MCMIT	6	2000
\$MCMSG	4	80
\$MCMSGS	4	40
\$MCNAME	6	800
\$MCNTEST	6	B
\$MCPROPX	6	400
\$MCRMD24	6	8000
\$MCRSLVX	6	200
\$MCTABL	6	100
\$MCTESTS	6	
\$MCVERS	6	1000
\$MSTCLR	4	2
\$MSTFLG1	5	
\$MSTSET	4	1
\$MSTTYPE	4	
\$MST1ECB	5	80
\$MST1EXP	5	20
\$MST1EXT	5	40
\$NADFLG1	5	
\$NADSTAT	4	
\$NAD1CES	5	10
\$NAD1NAT	5	80
\$NAD1NCC	5	40
\$NAD1STA	5	20
\$NFPEACT	4	2
\$NFPECOM	4	3
\$NFPERDY	4	1
\$NFPEVT	4	
\$NGTFLG1	5	
\$NGTSTAT	4	
\$NGT1FST	5	10
\$NGT1NAT	5	80
\$NGT1NCC	5	40
\$NGT1TOK	5	20
\$NHRFLG1	4	
\$NHRSRCB	5	
\$NHR1XIT	4	80
\$NHWFLG1	4	



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$NHW1FRE	4	80
\$NHW1WAT	4	40
\$NHXFLG1	4	
\$NHXSRCB	5	
\$NHX1FRE	4	80
\$NHX1XIT	4	40
\$NMDFLG1	5	
\$NMDSTAT	4	
\$NMD1CES	5	8
\$NMD1FST	5	20
\$NMD1NAT	5	80
\$NMD1NCC	5	40
\$NMD1STA	5	10
\$NNTFLG1	4	
\$NNT1FST	4	10
\$NNT1MMA	4	4
\$NNT1MTR	4	8
\$NNT1NOT	4	20
\$NNT1SET	4	80
\$NNT1TST	4	40
\$NORMAL	7	30
\$NOTFLG1	4	
\$NOT1EML	4	2
\$NOT1JQE	4	20
\$NOT1MEM	4	8
\$NOT1NJB	4	80
\$NOT1NUM	4	40
\$NOT1NUS	4	10
\$NOT1SBJ	4	1
\$NOT1TKN	4	4
\$NRMFLG1	4	
\$NRM1ALL	4	40
\$NRM1STA	4	80
\$NSLFLG1	4	
\$NSL10BT	4	80
\$NSL1SHR	4	20
\$NSL1WAT	4	40
\$NSYFLG1	4	
\$NSY1CKP	4	10



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$NSY1CMP	4	40
\$NSY1LOC	4	20
\$NSY1MSG	4	8
\$NSY1INIT	4	4
\$NSY1REF	4	80
\$PBFLAG1	4	
\$PB1DAUG	4	20
\$PB1DPDB	4	80
\$PB1DSPN	4	40
\$PGINFO	7	8
\$PGSFIX	4	40
\$PGSFLG1	4	
\$PGSFREE	4	20
\$PGSPRO	4	4
\$PGSRPSL	4	10
\$PGSRSSL	4	8
\$PGSRVRL	4	80
\$PGSUPRO	4	2
\$PRGFLG1	4	
\$PRG1ENF	4	40
\$PRG1JOA	4	20
\$PRG1RGD	4	10
\$PRG1VFY	4	80
\$PSQFLG1	4	
\$PSQ1JQE	4	40
\$PSQ1MAS	4	80
\$PTAFLG1	4	
\$PTA1CCT	4	20
\$PTA1MCT	4	80
\$PTA1UCT	4	40
\$PWCABND	4	20
\$PWCHIGH	4	10
\$PWCWAVE	4	40
\$PWC31WA	4	80
\$QBACTOF	4	40
\$QBACTON	4	80
\$QBDEVID	4	1
\$QBDODEV	4	2
\$QBHVCAT	4	4



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$QBNALCT	4	8
\$QBREAL	4	10
\$QBSYFLG	4	
\$QBTRACE	4	20
\$QJVALNF	4	80
\$QJVFRRC	4	10
\$QJVNJQA	4	20
\$QJVPFLG	4	
\$QJVRETC	4	40
\$QRBDFLG	4	
\$QRQNONE	4	80
\$QRQOTH	4	40
\$QRQRBLD	4	20
\$QSUFLG1	4	
\$QSUPLEN	E	16
\$QSUSECT	6	
\$QSUSEQF	E	
\$QSU1LUR	4	80
\$QSU1NOI	4	40
\$QTYALTE	4	80
\$QTPFLG	4	
\$RCPINIT	4	80
\$RETANY	4	80
\$RETFLAG	4	
\$RETPARM	4	40
\$RETREG	4	F
\$RETTDAT	7	
\$RETTFLG	6	
\$RETTLEN	8	
\$RETTLCD	4	20
\$RINFLG1	4	
\$RINLOG	4	80
\$ROLCHAN	5	8
\$ROLCKPT	6	0
\$ROLDSPI	6	0
\$ROLEXIT	5	2
\$ROLJOEI	6	0
\$ROLJQEI	6	0
\$ROLLOFF	6	



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$ROLLSRV	4	
\$ROLLSV2	5	
\$ROLNTRY	5	1
\$ROLPHAM	6	0
\$ROLPSV	6	0
\$ROLQGET	6	0
\$ROLSAPI	6	0
\$ROLSVRC	5	4
\$RQGTFL1	4	
\$RQGT1RC	4	80
\$RQGT1VE	4	40
\$RRAFLG1	4	
\$RRA1JOB	4	80
\$RTAFLG1	4	
\$RTA1CCT	4	20
\$RTA1FRN	4	1
\$RTA1FRY	4	2
\$RTA1MCT	4	80
\$RTA1UCT	4	40
\$SAVAM64	5	80
\$SAVANY	4	8
\$SAVAREG	11	
\$SAVARS	4	10
\$SAVFLAG	4	
\$SAVFLG2	5	
\$SAVNAME	6	
\$SAVNO\$W	5	40
\$SAVNRG	4	20
\$SAVNRLS	4	1
\$SAVTDAR	E	2
\$SAVTDAT	F	
\$SAVTDHR	E	4
\$SAVTDRR	E	8
\$SAVTFLG	E	
\$SAVTLAR	E	20
\$SAVTLEN	10	
\$SAVTLHR	E	40
\$SAVTLOF	E	10
\$SAVTLRR	E	80



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$SAVTRC	4	80
\$SAVTRCD	4	2
\$SAVTRE	4	40
\$SAVTUSR	E	1
\$SAVUANY	4	4
\$SCDFLG1	4	
\$SCD1WAR	4	80
\$SDAPPND	4	40
\$SDDEFT	4	20
\$SDFLAG1	4	
\$SDHOME	4	80
\$SDRETRN	4	10
\$SDWAIT	4	8
\$SDXSYS	4	4
\$SEC	7	40
\$SFFLAG1	4	
\$SF1ASID	4	8
\$SF1FRST	4	20
\$SF1LAST	4	10
\$SF1LOJ	4	80
\$SF1SSIB	4	40
\$SIGFLG1	4	
\$SIG1MQT	4	10
\$SIG1R	4	40
\$SIG1SKP	4	20
\$SIG1VAV	4	8
\$SIG1W	4	80
\$SJFLAG1	4	
\$SJFMEM	4	40
\$SJFNPVT	4	80
\$SLFLAG1	4	
\$SL1ACPT	4	8
\$SL1RETN	4	20
\$SL1WAIT	4	10
\$SPARE1	7	80
\$SPNFLG1	4	
\$SPN1CY	4	80
\$SPN1NL	4	40
\$ST	7	4



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$STLTYPE	4	
\$STMT	4	80
\$STMTCOM	4	40
\$STMTCON	4	8
\$STMterr	4	10
\$STMTRAW	4	4
\$STMTWAR	4	20
\$STMTWTO	4	2
\$SUFLAG1	4	
\$SU1FREE	4	80
\$SYMTTF1	4	
\$SYM1ALS	4	3
\$SYM1ALT	4	2
\$SYM1BLO	4	5
\$SYM1JQA	4	6
\$SYM1R0	4	7
\$SYM1SNF	4	1
\$SYM1UNA	4	4
\$TAPE	7	10
\$TGCNTYS	4	80
\$TGFLAG	4	
\$TGFLAG2	5	
\$TGMMQT	4	2
\$TGQSYES	4	8
\$TGSETON	4	4
\$TGTPSET	4	10
\$TGTTTEST	4	20
\$TGTTSET	4	30
\$TG2BAD	5	40
\$TG2BTRK	5	20
\$TG2MAP	5	80
\$TG20THR	5	10
\$TP	7	8
\$TRFLAG1	4	
\$TRIVIA	7	10
\$TR1RSLM	4	10
\$TR1SDB	4	8
\$TR1SJIO	4	4
\$TR1WRPM	4	2



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$TR1WTNO	4	1
\$TSRFLG1	4	
\$TSR1CBA	4	8
\$TSR1CRE	4	20
\$TSR1DEL	4	40
\$TSR1PRS	4	10
\$TSR1RET	4	80
\$UR	7	4
\$VFLOPCD	4	
\$VFLOPMV	4	12
\$VFLOPNC	4	0
\$VFLOPOC	4	6
\$VFLOPXC	4	C
\$VFYCHK	1E	0
\$VFYDREP	1E	D
\$VFYDSCA	1E	1
\$VFYDSET	1E	C
\$VFYDSIX	1E	2
\$VFYEMQT	1E	B
\$VFYHDB	1E	3
\$VFYIOT	1E	4
\$VFYJCT	1E	5
\$VFYJSMT	1E	A
\$VFYNHSB	1E	8
\$VFYOCT	1E	6
\$VFYSWBI	1E	7
\$VFYTLBM	1E	9
\$VOLFLD	4	
\$VOLNMFD	5	
\$VSJFLAG	4	
\$VWPFUNC	C	
\$VWPMODN	4	
\$WRCLSPR	6	
\$WREXEND	4	5
\$WRLEN	8	
\$WRLINTP	9	
\$WRPFLAG	4	
\$WRRROUTE	7	
\$WRSTEND	9	A



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$WRTYPE	5	
\$WSFLGOF	6	
\$WSLISTL	4	
\$WSTUNK	7	0
\$WSTWSP	7	1
\$WSTYPE	7	
\$WTCLASS	5	
\$WTCSECT	6	
\$WTFLAG1	4	
\$WTINHBT	5	
\$WTLINTP	7	
\$WTOAJSB	7	2
\$WTOCMBL	7	40
\$WTODMND	7	2
\$WTODOMT	7	4
\$WTOJOBY	7	20
\$WTOLNR0	7	8
\$WTOSJB	7	10
\$WTOSTDL	7	80
\$WTOTEXT	7	1
\$WTOWAIT	7	10
\$WTPFLAG	4	
\$WTPLEN	16	18
\$WTRESQ0	16	
\$WTRROUTE	6	
\$WTSEQF	E	
\$WT1INHN	4	10
\$WT1MCLR	4	8
\$WT1RES	4	80
\$WT1RETN	4	20
\$WT1XECB	4	40
\$XGCOUNT	C	80
\$XGFLAG	C	
\$XGLABEL	4	
\$XMFLAG1	4	
\$XM1COMP	4	20
\$XM1IRB	4	1
\$XM1LPST	4	10
\$XM1NPST	4	2



Table 68. Cross Reference for \$PARMLST (continued)

Name	Offset	Hex Tag
\$XM1QUIK	4	40
\$XM1STKN	4	8
\$XM1TTKN	4	4
\$XM1XMP	4	80
\$ZGLLALT	4	4
\$ZGLLAMN	4	1
\$ZGLLASN	4	2
\$ZGLLAUT	4	8
\$ZGLLTMS	4	20
\$ZGLLWKA	4	10
CCJFARMR	4	4
CCJFDUMP	4	40
CCJFFORC	4	8
CCJFJGRP	4	800
CCJFJOB	4	80
CCJFOUTP	4	41
CCJFPROT	4	200
CCJFPURG	4	1
CCJFRSET	4	400
CCJFSTOP	4	2
DSNRONLY	4	80
DSNVALL	4	0
EXITFLGS	C	
EXITFSS	C	8
EXITID	D	
EXITJES2	C	10
EXITLNG	F	C
EXITMRC	E	
EXITNAME	4	
EXITRSVD	F	
EXITSTSK	C	20
EXITTR	C	80
EXITUSER	C	40
EXITXPL	C	4
HCVFLAG1	4	
HCVF1EXT	4	80
PARMINST	0	
PARMLIST	0	
PARMSTRT	4	



Table 68. Cross Reference for \$PARMLST (continued)

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

## \$PARMWRK information

### \$PARMWRK heading information

**Common name:** PARMLIB Work Area

**Macro ID:** \$PARMWRK

**DSECT name:** PRW

**Owning component:** JES2 (SC1BH)

**Eye-catcher ID:** PRW  
Offset: PRWID  
Length: L'PRWID

**Storage attributes:** Subpool: 0  
Key: 1  
Residency: Virtual storage is below the 16M line (contains DCB to read PARMLIB). Real storage is anywhere

**Size:** See PRWLEN

**Created by:** HASPSXIT for the INCLUDE initialization statement

**Pointed to by:** CIRPRMWR field of the CIRWORK data area  
PRWPRW field of the PARMWRK data area

**Serialization:** None required

**Function:** The PARMWRK DSECT represents a data set used to read JES2 initialization statements from

### \$PARMWRK mapping

Table 69. Structure PRW

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PRW	, PROCLIB allocation DSECT
0	(0)	CHARACTER	4	PRWID	Eyecatcher
4	(4)	CHARACTER	54	PRWDSNMB	Data set name input area



Table 69. Structure PRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
58	(3A)	CHARACTER	1	PRWDSNEN	Work area for PSTINCDS
60	(3C)	SIGNED	4	(0)	Alignment
60	(3C)	CHARACTER	8	PRWUNIT	Data set unit
68	(44)	CHARACTER	6	PRWVOL	Data set VOLSER
74	(4A)	CHARACTER	44	PRWDSN(0)	Dataset name
74	(4A)	BITSTRING	58		DSN with work area
132	(84)	SIGNED	4	(0)	Alignment
132	(84)	CHARACTER	8	PRWMEMB(0)	Member name
132	(84)	BITSTRING	55		Member with work area
187	(BB)	CHARACTER	8	PRWIMEMB	Member of current dataset
195	(C3)	CHARACTER	8	PRWLMEMB	Logical Parmlib_member
204	(CC)	SIGNED	4	PRWSEND(0)	End of SCAN mapped areas
204	(CC)	X'CC'	0	PRWSLEN	"PRWSEND-PRW" Short PRW length (all fields referenced by SCAN)
204	(CC)	ADDRESS	4	PRWLDSB	Logical dataset Read buffer
208	(D0)	ADDRESS	4	PRWPRW	PRW chain pointer
212	(D4)	SIGNED	4	PRWLRCNT	Logical dataset rec counter
216	(D8)	BITSTRING	1	PRWFLAG1	General flags
		1... ....		PRW1DCON	"B'10000000'" Enter console mode when EOF
		.1.. ....		PRW1DECN	"B'01000000'" Enter error console mode on EOF
217	(D9)	BITSTRING	1	PRWFLAG2	General flags
		1... ....		PRW2IDSN	"B'10000000'" DSNNAME specified
		.1.. ....		PRW2IVOL	"B'01000000'" VOLSER specified
		..1. ....		PRW2IUNT	"B'00100000'" UNIT specified
		...1 ....		PRW2IMEM	"B'00010000'" Member field specified
		.... 1...		PRW2ILPM	"B'00001000'" Parmlib_member specified
		.... .1..		PRW2ISEQ	"B'00000100'" Dataset is sequential
		.... ..1.		PRW2INST	"B'00000010'" Nested INCLUDE
218	(DA)	BITSTRING	3		Reserved
224	(E0)	ADDRESS	4	PRWINIDS	INIDSNE pointer for include
Dynamic allocation work area					
228	(E4)	ADDRESS	4	PRWRBPTR	Request block pointer
232	(E8)	SIGNED	4	(0)	Ensure aligned
232	(E8)	BITSTRING	20	PRWRB	DYNALLOC request block
252	(FC)	SIGNED	4	(0)	Ensure aligned
252	(FC)	BITSTRING	36	PRWRBX	Request block Extension
288	(120)	SIGNED	4	PRWXTPT(0)	Text pointers
288	(120)	ADDRESS	4	PRWXTTP1	Address of text unit 1
292	(124)	ADDRESS	4	PRWXTTP2	Address of text unit 2
296	(128)	ADDRESS	4	PRWXTTP3	Address of text unit 3
300	(12C)	ADDRESS	4	PRWXTTP4	Address of text unit 4
304	(130)	ADDRESS	4	PRWXTTP5	Address of text unit 5
308	(134)	ADDRESS	4	PRWXTTP6	Address of text unit 5



Table 69. Structure PRW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
DYNAMIC Allocation text units: - Return DDNAME - DISP=SHR - DSNNAME=dsname - UNIT=unit - VOLSER=volser					
312	(138)	SIGNED	4	PRWATX(0)	Text units
312	(138)	BITSTRING	6	PRWATX1	Text unit 1 (Return DDNAME)
318	(13E)	CHARACTER	8	PRWDDNM	Returned DD Name
326	(146)	BITSTRING	6	PRWATX2	Text unit 2 (DISP)
332	(14C)	BITSTRING	8	PRWATX2D	Text unit 2 parm
340	(154)	BITSTRING	6	PRWATX3	Text unit 3 (Data set name)
346	(15A)	CHARACTER	44	PRWDDSN	Data set name
390	(186)	BITSTRING	6	PRWATX4	Text unit 4 (member name)
396	(18C)	CHARACTER	8	PRWDMEMB	Data set member name
404	(194)	BITSTRING	6	PRWATX5	Text unit 5 (UNIT)
410	(19A)	CHARACTER	8	PRWDUNIT	Data set unit
418	(1A2)	BITSTRING	6	PRWATX6	Text unit 6 (VOLSER)
424	(1A8)	CHARACTER	6	PRWDVOL	Data set VOLSER
DYNAMIC Unallocate text units: - DDNAME					
312	(138)	BITSTRING	6	PRWUTX1	Text unit 1 (DDNAME)
318	(13E)	BITSTRING	8	PRWUTX1D	Text unit 1 parm
326	(146)	BITSTRING	6	PRWUTX2	Text unit 2 unallocate perm
332	(14C)	BITSTRING	8	PRWUTX2D	Text unit 2 parm
OPEN/CLOSE Work areas and DCB					
432	(1B0)	DBL WORD	8	(0)	Alignment DATA CONTROL BLOCK
432	(1B0)	SIGNED	4	PRWDCCB(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
432	(1B0)	ADDRESS	4		DCBE ADDRESS
436	(1B4)	BITSTRING	12		FDAD, DVTBL
448	(1C0)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
452	(1C4)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
453	(1C5)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
456	(1C8)	ADDRESS	2		BUFL, BUFFER LENGTH
458	(1CA)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
460	(1CC)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
464	(1D0)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
465	(1D1)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
468	(1D4)	BITSTRING	1		RECFM (RECORD FORMAT)
469	(1D5)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
472	(1D8)	CHARACTER	8		DDNAME
480	(1E0)	BITSTRING	1		OFLGS (OPEN FLAGS)
481	(1E1)	BITSTRING	1		IFLGS (IOS FLAGS)



Table 69. Structure PRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
482	(1E2)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
484	(1E4)	BITSTRING	1		OPTCD, OPTION CODES
485	(1E5)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
488	(1E8)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
492	(1EC)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
494	(1EE)	ADDRESS	2		BLKSIZE, BLOCK SIZE
496	(1F0)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
500	(1F4)	ADDRESS	4		INTERNAL ACCESS METHOD USE QSAM INTERFACE
504	(1F8)	ADDRESS	4		EOBAD
508	(1FC)	ADDRESS	4		RECAD
512	(200)	SIGNED	2		QSWs (FLAGS) AND EITHER DIRCT OR BUFOFF
514	(202)	ADDRESS	2		LRECL
516	(204)	BITSTRING	1		EROPT, ERROR OPTION
517	(205)	ADDRESS	3		CNTRL
520	(208)	SIGNED	2	(2)	RESERVED AND PRECL
524	(20C)	ADDRESS	4		EOB, INTERNAL ACCESS METHOD FIELD
DATA CONTROL BLOCK EXTENSION.					
528	(210)	SIGNED	4	PRWDCBE(0)	0 Alignment and identifier
532	(214)	SIGNED	2		4 DCBE V0 length, min is 56'
534	(216)	BITSTRING	2		6 Reserved, should be zero
536	(218)	ADDRESS	4		8 0 if not open, OPEN points to DCB
540	(21C)	BITSTRING	4		C Disk address of current member
544	(220)	BITSTRING	1		10 Flags set by system
545	(221)	BITSTRING	1		11 Flags set by user
546	(222)	SIGNED	2		12 Number of stripes if extended format
548	(224)	BITSTRING	1		14 Flags set by user
549	(225)	BITSTRING	1		15 Flags
550	(226)	BITSTRING	2		16 Reserved
552	(228)	BITSTRING	4		18 Reserved
556	(22C)	SIGNED	4		1C Block size
560	(230)	BITSTRING	8		20 Reserved & number of blocks in ds
568	(238)	ADDRESS	4		28 End of data routine address or 0
572	(23C)	ADDRESS	4		2C I/O error routine (synchronous) or 0
576	(240)	BITSTRING	4		30 Reserved, should be zero
580	(244)	SIGNED	2		34 tape files written before sync
582	(246)	ADDRESS	1	(2)	36 MULTACC and MULTSDN
SHORTEST POSSIBLE DCBE IN ANY RELEASE. End of DCBE Version 0					
582	(246)	X'98'	0	PRWDCBL	"*-PRWDCB" DCB length
584	(248)	BITSTRING	1	PRWDCBFG	DCB EOF indicator X'FF' -> EOF



Table 69. Structure PRW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
592	(250)	DBL WORD	8	(0)	Alignment
592	(250)	SIGNED	4	PRWOP(0)	ALIGN LIST TO WORD
592	(250)	ADDRESS	1		Option byte
593	(251)	ADDRESS	3		DCB or ACB address
593	(251)	X'250'	0	PRWOPEN	"PRWOP,*-PRWOP"
596	(254)	SIGNED	4	PRWCL(0)	ALIGN LIST TO FULLWORD
596	(254)	ADDRESS	1		OPTION BYTE
597	(255)	ADDRESS	3		DCB OR ACB ADDRESS
597	(255)	X'254'	0	PRWCLOSE	"PRWCL,*-PRWCL"
600	(258)	SIGNED	4	PRWEXJFC(0)	Alignment
600	(258)	BITSTRING	1		JFCB
601	(259)	ADDRESS	3		exit
604	(25C)	SIGNED	4	PRWJFCB(0)	JFCB
604	(25C)	BITSTRING	1	(176)	work area
784	(310)	DBL WORD	8	(0)	Ensure alignment
784	(310)	X'310'	0	PRWLEN	"*-PRW" PRW length

Table 70. Cross Reference for \$PARMWRK

Name	Offset	Hex	Tag
PRW	0		
PRWATX	138		
PRWATX1	138		
PRWATX2	146		
PRWATX2D	14C		
PRWATX3	154		
PRWATX4	186		
PRWATX5	194		
PRWATX6	1A2		
PRWCL	254		
PRWCLOSE	255		254
PRWDCB	1B0		
PRWDCBE	210		C4C3C2C5
PRWDCBFG	248		
PRWDCBL	246		98
PRWDDNM	13E		
PRWDDSN	15A		
PRWDMEMB	18C		
PRWDSN	4A		
PRWDSNEN	3A		
PRWDSNMB	4		
PRWDUNIT	19A		



Table 70. Cross Reference for \$PARMWRK (continued)

Name	Offset	Hex Tag
PRWDVOL	1A8	
PRWEXJFC	258	
PRWFLAG1	D8	
PRWFLAG2	D9	
PRWID	0	D7D9E640
PRWIMEMB	BB	
PRWINIDS	E0	
PRWJFCB	25C	
PRWLDSB	CC	
PRWLEN	310	310
PRWLMEMB	C3	
PRWLRCNT	D4	
PRWMEMB	84	
PRWOP	250	
PRWOPEN	251	250
PRWPRW	D0	
PRWRB	E8	
PRWRBPTR	E4	
PRWRBX	FC	
PRWSEND	CC	
PRWSLEN	CC	CC
PRWXTPT	120	
PRWXTPT1	120	
PRWXTPT2	124	
PRWXTPT3	128	
PRWXTPT4	12C	
PRWXTPT5	130	
PRWXTPT6	134	
PRWUNIT	3C	
PRWUTX1	138	
PRWUTX1D	13E	
PRWUTX2	146	
PRWUTX2D	14C	
PRWVOL	44	
PRW1DCON	D8	80
PRW1DECN	D8	40
PRW2IDSN	D9	80
PRW2ILPM	D9	8
PRW2IMEM	D9	10



Table 70. Cross Reference for \$PARMWRK (continued)

Name	Offset	Hex Tag
PRW2INST	D9	2
PRW2ISEQ	D9	4
PRW2IUNT	D9	20
PRW2IVOL	D9	40

## \$PBLK information

### \$PBLK heading information

<b>Common name:</b>	HAM Protected Block DSECT
<b>Macro ID:</b>	\$PBLK
<b>DSECT name:</b>	PBLK
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	PBLK Offset: PBLKID-PBLK Length: L'PBLKID
<b>Storage attributes:</b>	Subpool: 229 Key: 1 Residency: Virtual and Real storage are limited to 31 bit because to the channel programs generated to read data into these blocks.
<b>Size:</b>	See BATPBKSZ of the BAT that owns this PBLOCK
<b>Created by:</b>	HASCHAM GET processing
<b>Pointed to by:</b>	SDBPBLIN field of the SDB    data area SDBPBLAC field of the SDB    data area SDBPBLFL field of the SDB    data area SDBAPBL field of the SDB    data area SDBGAPBL field of the SDB    data area SDBGAPBE field of the SDB    data area PBLNEXT field of the PBL    data area
<b>Serialization:</b>	Local lock held by EXCPVR serializes most updates to this data area. In some cases, the SDB lock of the owning SDB is used for serialization.
<b>Function:</b>	A PBLOCK contains control information, CCWs and data buffers used to read JES2 data sets from SPOOL. The size is dependant on the exact despooling method in use. Normal despooling uses 1 page of storage. Track cell despooling uses track cell (CCTTKCEL) number of 4K pages. Full track despooling uses 11 or 12 pages depending on buffer size (1944 vs 3992 bytes).



## \$PBLK mapping

Table 71. Structure PBLK

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PBLK	, Protected block DSECT
0	(0)	CHARACTER	4	PBLKID	Eyecatcher
4	(4)	SIGNED	4	PBLSIZE	Size of data area
8	(8)	ADDRESS	4	PBLNEXT	Next PBLOCK on SDB chain
12	(C)	SIGNED	4	PBLUSECT	Use count for buffers
16	(10)	BITSTRING	1	PBLGFLG1	PBLOCK flag bytes
		1... ....		PBLGF1EL	"B'10000000" At least one end record in this PBLOCK
17	(11)	SIGNED	1	PBLSTRBF	First MQTRE to process
18	(12)	ADDRESS	2	PBLBUFNM	Number of buffers in block
20	(14)	ADDRESS	4	PBLCCWA	Address of CCWs
24	(18)	ADDRESS	4	PBLBUFA	Address of first buffer
28	(1C)	SIGNED	4	PBLBUFL	Length of buffer area
32	(20)	SIGNED	4	PBLECB	ECB to post when I/O completes
40	(28)	DBL WORD	8	PBLMQTRT(0)	Start of MQTR/ADDRESS table

Table 72. Structure PBLMQTRE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PBLMQTRE	, MQTR/ADDRESS table mapping
0	(0)	BITSTRING	6	PBLMQTR	MQTR of address (0 if not valid)
6	(6)	BITSTRING	1	PBLMFLG1	General flag byte
		1... ....		PBLMF1ER	"B'10000000" I/O error on buffer
		.1.. ....		PBLMF1VL	"B'01000000" Logical error on buffer
		..1. ....		PBLMF1OK	"B'00100000" Buffer verified OK
		...1 ....		PBLMF1PR	"B'00010000" Buffer processed
		.... 1...		PBLMF1SR	"B'00001000" Buffer filled by SRB
7	(7)	BITSTRING	1		Reserved
8	(8)	ADDRESS	4	PBLMLOC	Next LRC to process
12	(C)	ADDRESS	4	PBLMADDR	Address of buffer for MQTR
16	(10)	DBL WORD	8	PBLMIDA1	IDAWs used
24	(18)	DBL WORD	8	PBLMIDA2	to read records
32	(20)	DBL WORD	8	PBLMQTRN(0)	Next entry (DWORD aligned)
32	(20)	X'20'	0	PBLMELEN	"*-PBLMQTRE" Length of an entry

Table 73. Structure PBLCCWS

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PBLCCWS	, CCW and data areas
ECKD Data area and CCWs					
0	(0)	BITSTRING	16	PBLDIPRM(0)	Locate record parameter list
0	(0)	BITSTRING	1	PBLDOPER	Operation byte
1	(1)	BITSTRING	1	PBLDAUX	Auxiliary byte
2	(2)	BITSTRING	1		Reserved (must be 0)



Table 73. Structure PBLCCWS (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
3	(3)	BITSTRING	1	PBLDNREC	Number of records to process
4	(4)	BITSTRING	4	PBLDCCHH	(CCHH) Seek address (CCHH)
8	(8)	BITSTRING	5	PBLDCHR1(0)	(CCHHR) Search address
8	(8)	BITSTRING	4	PBLDCH1	(CCHH) Cylinder and head numbers
12	(C)	BITSTRING	1	PBLDREC1	(R) Record number
13	(D)	BITSTRING	1	PBLDSCT1	Sector number
14	(E)	BITSTRING	2	PBLDTLEN	Transfer length factor
16	(10)	DBL WORD	8	PBLCCWS2(0)	ECKD CCW chain
Length fields. PBLSIZEC is the constant portion of the PBLOCK (base section plus positioning CCWs). PBLSIZEV is the length per input buffer for control areas and 1 read CCW.					
24	(18)	X'40'	0	PBLSIZEC	" (PBLMQTRT-PBLK)+(PBLCRW-PBLCCWS) "
24	(18)	X'28'	0	PBLSIZEV	" (PBLMQTRN-PBLMQTRE)+L' PBLCRW"

Table 74. Cross Reference for \$PBLK

Name	Offset	Hex	Tag
PBLBUFA	18		
PBLBUFL	1C		0
PBLBUFNM	12		0
PBLCCWA	14		
PBLCCWS	0		
PBLCCWS2	10		
PBLDAUX	1		
PBLDCCHH	4		
PBLDCHR1	8		
PBLDCH1	8		
PBLDIPRM	0		
PBLDNREC	3		
PBLDOPER	0		
PBLDREC1	C		
PBLDSCT1	D		
PBLDTLEN	E		
PBLECB	20		0
PBLGFLG1	10		0
PBLGF1EL	10		80
PBLK	0		
PBLKID	0		D7C2D3D2
PBLMADDR	C		
PBLMELEN	20		20
PBLMFLG1	6		



Table 74. Cross Reference for \$PBLK (continued)

Name	Offset	Hex Tag
PBLMF1ER	6	80
PBLMF10K	6	20
PBLMF1PR	6	10
PBLMF1SR	6	8
PBLMF1VL	6	40
PBLMIDA1	10	
PBLMIDA2	18	
PBLMLOC	8	
PBLMQTR	0	
PBLMQTRE	0	
PBLMQTRN	20	
PBLMQTRT	28	
PBLNEXT	8	
PBLSIZE	4	0
PBLSIZEC	18	40
PBLSIZEV	18	28
PBLSTRBF	11	0
PBLUSECT	C	0

## \$PCE information

### \$PCE programming interface information

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

- PCEPRE

### \$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.

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 mapping

Table 75. Structure PCE

Offset Dec	Offset Hex	Type	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'A0'	0	PCELPSV	"PSVLABAD-PSV+PCE,4,C'A'" Last \$SAVE area
0	(0)	X'99'	0	PCEXITID	"PSVEXID-PSV+PCE,1,C'F'" Exit ID last invoked
0	(0)	X'9C'	0	PCEDOM68	"PSVADDR-PSV+PCE,4,C'F'" Domid for \$HASP068
176	(B0)	ADDRESS	4	PCEPREV	ADDRESS OF PREVIOUS PCE
180	(B4)	ADDRESS	4	PCENEXT	ADDRESS OF NEXT PCE
184	(B8)	ADDRESS	4	PCEPCEA	NEXT READY/WAITING PCE
188	(BC)	ADDRESS	4	PCEPCEB	PREVIOUS READY/WAITING PCE
192	(C0)	ADDRESS	4	PCEERA	ADDR OF ERA FOR ERROR FROM WHICH PCE IS ATTEMPTING TO RECOVER
196	(C4)	ADDRESS	4	PCEPRE	ADDRESS OF NEWEST PRE
200	(C8)	BITSTRING	1	PCEEWF	PROCESSOR EVENT WAIT FIELD
201	(C9)	BITSTRING	1	PCEFLAGS	PROCESSOR FLAGS
		1... ....		PCETRACE	"B'10000000'" Processor eligible for tracing
		.1.. ....		PCEDSPXP	"B'01000000'" Processor permanently exempt from non-dispatchability
		..1. ....		PCEDSPXT	"B'00100000'" Processor temporarily exempt from non-dispatchability
		...1 ....		PCENWIOP	"B'00010000'" Implicit \$WAITs in I/O processing should be prohibited (currently used only by \$IOERROR)



Table 75. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		PCETRPSF	"B'00001000'" Short \$TRACE requested
		.... .1..		PCETRLDS	"B'00000100'" Relds indicator
		.... ..1.		PCEPRIO	"B'00000010'" High priority pce
		.... ...1		PCEREQIR	"B'00000001'" PCE is required (terminate JES2 if PCE abends).
202	(CA)	BITSTRING	1	PCEFLAG2	More PCE flags
		1... ....		PCE2ENDD	"B'10000000'" PCE has been terminated & will never be dispatched
		.1.. ....		PCE2EBUF	"B'01000000'" Emergency buffers allowed
		..1. ....		PCE2EVNT	"B'00100000'" An exception event has occured for PCE this dispatcher cycle
		...1 ....		PCE2INIT	"B'00010000'" PCE has initialized far enough to allow DETACH
		.... 1...		PCE2QSUS	"B'00001000'" PCE needed CKPT queues last time it ran
		.... .1..		PCE2XWTR	"B'00000100'" PCE is a PSO or SAPI PCE
		.... ..1.		PCE2SJID	"B'00000010'" Maintain PCEJOBID
		.... ...1		PCE2SJIX	"B'00000001'" Maintain PCEJQEIX
203	(CB)	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.
		1... ....		PCEGEMOK	"B'10000000'" PCE is allowed to obtain emergency CMBs
		.1.. ....		PCECEMER	"B'01000000'" PCE currently owns an emergency CMB
		..1. ....		PCEPRIVI	"B'00100000'" PCE can may only be used by privileged jobs
204	(CC)	SIGNED	2	PCENDSPC	NON-DISPATCHABILITY COUNT - IF NON- ZERO PROCESSOR NOT DISPATCHED UNLESS EXEMPT VIA PCEDSPXP/XT
206	(CE)	SIGNED	2	PCEID	PROCESSOR TYPE
208	(D0)	SIGNED	4	PCEUSER0	RESERVED FOR USER
212	(D4)	SIGNED	4	PCEUSER1	RESERVED FOR USER
216	(D8)	SIGNED	4	PCEPOSTD(0)	PCE Post EWF fullword
216	(D8)	BITSTRING	3		Reserved for future use
219	(DB)	BITSTRING	1	PCEPSTEW	PCE POST EWF value
220	(DC)	ADDRESS	4	PCEPSTCH	PCE POST chain pointer
224	(E0)		1	PCEWTTIM	Time PCE \$WAITed (STCKE)
NOTE THAT THE FOLLOWING FIELDS (THROUGH PCDEVTP) MUST CORRESPOND TO THE DCT FIELDS (THROUGH DCTDEVTP)					
240	(F0)	DBL WORD	8	(0)	Ensure DWORD alignment
ORG -(DCTPCE-DCT) ESTABLISH THE PCEDADCT					
232	(E8)	DBL WORD	8	PCEDADCT(0)	USING STORAGE FOR THE DCT FIELDS NOT IN A DA DCT
240	(F0)	ADDRESS	4	PCEDCTPC	DA DCT - DCTPCE
244	(F4)	SIGNED	4	PCEDCTFL	DCTSTAT-DCTFLAGS-DCTFLAG2
248	(F8)	BITSTRING	4	PCSEEEK	MTTR value for \$EXCP



Table 75. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
252	(FC)	BITSTRING	4		Reserved (part of MQTR)
248	(F8)	DBL WORD	8	PCEMQTRD(0)	8 byte addr for STG
248	(F8)	BITSTRING	1	PCSEEEKF	'FF'x if MQTR is set
249	(F9)	BITSTRING	1		Reserved (part of MTTR)
250	(FA)	BITSTRING	6	PCEMQTR	MQTR value for \$EXCP
256	(100)	ADDRESS	4	PCEBUFAD	BUFFER ADDRESS FOR \$EXCP
260	(104)	ADDRESS	4	PCEIOEWF	PCE WITH EWF TO POST OR EXIT ADDRESS
264	(108)	SIGNED	2	PCEBUFCN	Active buffer count
266	(10A)	BITSTRING	1	PCEDEVTP	DA DCT FLAGS FOR \$EXCP
		.... ....		PCEDARD	"B'00000000" Direct access read request
		.... ...1		PCEDAWR	"B'00000001" Direct access write request
267	(10B)	BITSTRING	1	PCEDAF3	DA DCT flag byte (see DCTFLAG3 for bits)
267	(10B)	X'1C'	0	PCEDALEN	"*-PCEDCTPC" Length of DA DCT in PCE
268	(10C)	SIGNED	2	PCELENG	PCE LENGTH
270	(10E)	ADDRESS	1	PCEROLOQ	Holding area for JQE/JOE 'prior' queue type
271	(10F)	SIGNED	1	PCSEQ	PCE sequence number
272	(110)	ADDRESS	4	PCEDCT	ADDRESS OF DCT (IF ANY)
276	(114)	ADDRESS	4	PCEJQE	ADDRESS OF JQE (IF ANY)
JOBID or JQE index of the current job. This is maintained by \$DOGJQE for use by the monitor. If the first 4 bytes of PCEJOBID is zero, then either there is no current job or the second 4 bytes is a JQE index.					
280	(118)	CHARACTER	8	PCEJOBID	JOB ID of current job
280	(118)	SIGNED	4		Zero
284	(11C)	SIGNED	4	PCEJQEIX	JOB index of current job
288	(120)	BITSTRING	8	PCEJOBTK	JOBTOKEN job signature
296	(128)	ADDRESS	4	PCEPTAB	Addr of PCETAB
300	(12C)	ADDRESS	4	PCEFSACB	ADDRESS OF FSACB, IF ANY
304	(130)	ADDRESS	4	PCEWAVE	ADDRESS OF WAVE (IF ANY)
308	(134)	ADDRESS	4	PCENTITY	ADR OF ENTITY AREA (IF ANY)
312	(138)	SIGNED	2	PCEASID	Associated address space
314	(13A)	BITSTRING	1	PCEFLAG3	More PCE flags
		1... ....		PCE3HPFL	"B'10000000" PCE invoked HPUTFULL
		.1.. ....		PCE3NO\$W	"B'01000000" \$WAIT prohibited
		..1. ....		PCE3PST1	"B'00100000" \$\$POST ELEM= looks for available PCE to post
		...1 ....		PCE3\$QSU	"B'00010000" PCE low prio for \$QSUSE
		.... 1...		PCE3\$SCN	"B'00001000" \$SCAN is active
315	(13B)	BITSTRING	1		Reserved for future use
316	(13C)	ADDRESS	4	PCEACTCT	PCE active count
320	(140)	ADDRESS	4	PCEPCECT	Ptr to PCE counters (see \$PCEHCTD/\$PCEHCTA)
324	(144)	ADDRESS	4	PCEBKLCCT	Ptr to backlog counter
328	(148)	SIGNED	2	PCEPNADJ	PCE pain adjustment



Table 75. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
330	(14A)	BITSTRING	2		Reserved for future use
332	(14C)	ADDRESS	4	PCEWORKA	ADDRESS OF PCE WORK AREA
336	(150)	DBL WORD	8	PCEWORK(0)	VARIABLE LENGTH PROCESSOR WORK AREA
PCEID - BYTE1					
	.... ..			PCENODEV	"X'00'" PCEID BYTE1 = 0 INDICATES NON- DEVICE PROCESSOR
	.... ...1			PCELCLID	"X'01'" LOCAL SPECIAL PCE ID
	.... ..1.			PCERJEID	"X'02'" REMOTE SPECIAL PCE ID
	.... .1..			PCENJEID	"X'04'" NETWORK SPECIAL PCE ID, INDICATES NJE OR XFR JT/JR/ST/SR
	.... 1...			PCEINRID	"X'08'" INTERNAL SPECIAL PCE ID
	1... ....			PCEPRSID	"X'80'" PRINT SPECIAL PCE ID
	.1.. ....			PCEPUSID	"X'40'" PUNCH SPECIAL PCE ID
	..1. ....			PCEXFRID	"X'20'" XFR SPECIAL PCE ID
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). <div style="text-align: center;">             Work              Area              Macro Descriptive name           </div>					
336	(150)	X'1'	0	PCERDRID	"1" \$RDRWORK - Input Services
336	(150)	X'2'	0	PCEASYID	"2" \$ASYWORK - Asynchronous I/O
336	(150)	X'3'	0	PCECNVID	"3" \$CNVWORK - Converter
336	(150)	X'4'	0	PCEXEQID	"4" \$XEQWORK - Execution
336	(150)	X'5'	0	PCEPSOID	"5" \$PSOWORK - Process SYSOUT
336	(150)	X'6'	0	PCEOUTID	"6" \$OUTWORK - Output
336	(150)	X'7'	0	PCEPRTID	"7" \$PPPWORK - Print \$FSSWORK - FSS Print Support
336	(150)	X'8'	0	PCEPUNID	"8" \$PPPWORK - Punch
336	(150)	X'9'	0	PCEPRGID	"9" \$PRGWORK - Purge
336	(150)	X'A'	0	PCECONID	"10" \$COMWORK - Command
336	(150)	X'B'	0	PCMLMID	"11" \$MLMWORK - Multi-leaving Line Mgt
336	(150)	X'C'	0	PCETIMID	"12" \$TIMWORK - STIMER/TTIMER
336	(150)	X'D'	0	PCECKPID	"13" \$CKPWORK - Checkpoint
336	(150)	X'E'	0	PCEJPAID	"14" \$JPAWORK - Priority Aging
336	(150)	X'F'	0	PCEWRMID	"15" \$WARMWRK - Warm Start
336	(150)	X'10'	0	PCENJTID	"16" \$NJTWORK - NJE Job Transmitter
336	(150)	X'11'	0	PCENJRID	"17" \$RDRWORK - NJE Job Receiver
336	(150)	X'12'	0	PCENSTID	"18" \$NSTWORK - NJE SYSOUT Transmitter
336	(150)	X'13'	0	PCENSRID	"19" \$NSRWORK - NJE SYSOUT Receiver
336	(150)	X'14'	0	PCENPMID	"20" \$NPMWORK - NJE Path Manager
336	(150)	X'15'	0	PCERCPID	"21" \$RCPWORK - Remote Console
336	(150)	X'16'	0	PCETEXID	"22" \$TEXWORK - Time Excession Monitor



Table 75. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
336	(150)	X'17'	0	PCEINTID	"23" \$CIRWORK - Initialization
336	(150)	X'18'	0	PCEVTID	"24" \$TLGWORK - Event Trace Log
336	(150)	X'19'	0	PCEXFMID	"25" \$XFMWORK - SPOOL Transfer I/O Mgr
336	(150)	X'1A'	0	PCESPMID	"26" \$SPMWORK - SPOOL Manager
336	(150)	X'1B'	0	PCENRRID	"27" \$RDRWORK - NJE Route Receiver
336	(150)	X'1C'	0	PCENRTID	"28" \$NJTWORK - NJE Route Transmitter
336	(150)	X'1D'	0	PCESNFID	"29" \$SNFWORK - SPOOL sniffer
336	(150)	X'1E'	0	PCERESID	"30" \$RESWORK - Resource Manager
336	(150)	X'1F'	0	PESTCID	"31" \$STCWORK - STATUS/CANCEL
336	(150)	X'20'	0	PCESPNID	"32" \$SPNWORK - Spin Services
336	(150)	X'21'	0	PCESFSID	"33" \$SFRWORK - Scheduler Services
336	(150)	X'22'	0	PCEOPAID	"34" \$OPAWORK - Output Priority Aging
336	(150)	X'23'	0	PCEFCLID	"35" \$FCLWORK - FSS Cleanup on EOM
336	(150)	X'24'	0	PCEXCFID	"36" \$XPWORK - Coupling
336	(150)	X'25'	0	PCEJCMID	"37" \$JCMWORK - Job Command Processor
336	(150)	X'26'	0	PCEARMID	"38" \$ARMWORK - ARM support processor
336	(150)	X'27'	0	PCEXCMID	"39" \$XCMWORK - XCF Command Processor
336	(150)	X'28'	0	PCESPIID	"40" \$SPIWORK - Sysout API Processor
336	(150)	X'29'	0	PCEDILID	"41" \$DILWORK - 'Do It Later' processor
336	(150)	X'2A'	0	PCEENFID	"42" \$ENFWORK - ENF LISTEN processor
336	(150)	X'2B'	0	PCEALIID	"43" \$ALIWORK - Acquire lock & cleanup
336	(150)	X'2C'	0	PCEMSCID	"44" \$MSCWORK - Miscellaneous processor
336	(150)	X'2D'	0	PCEEOMID	"45" \$EOMWORK - End-of-Memory processor
336	(150)	X'2E'	0	PCEJQRID	"46" \$JQRWORK - JQE Request processor
336	(150)	X'2F'	0	PCEIRCID	"47" \$IRCWORK - Internal reader cleanup
336	(150)	X'30'	0	PCEDWNID	"48" \$DAWNWRK - DAWN processor
336	(150)	X'31'	0	PCENRMID	"49" \$NRMWORK - NJE Resource Monitor
336	(150)	X'32'	0	PCECDCID	"50" \$CDCWORK - Cross-system Device
336	(150)	X'33'	0	PCEDLSID	"51" \$DLWORK - Deadline scheduling
336	(150)	X'34'	0	PCEJOIID	"52" \$JOEIWRK - JOEI processor
336	(150)	X'35'	0	PCEEDSID	"53" \$EDSWORK - Email Delivery services
336	(150)	X'36'	0	PCEPCYID	"54" \$PCYWORK - Policy services
336	(150)	X'37'	0	PCEDRPID	"55" \$DRPWORK - Data repository manager
336	(150)	X'38'	0	PCEDRTID	"56" \$DRTWORK - Data repos track mgr

Table 76. Cross Reference for \$PCE

Name	Offset	Hex Tag
PCE	0	
PCEACTCT	13C	
PCEALIID	150	2B



Table 76. Cross Reference for \$PCE (continued)

Name	Offset	Hex Tag
PCEARMID	150	26
PCEASID	138	
PCEASYID	150	2
PCEBKLCT	144	
PCEBUFAD	100	
PCEBUFCN	108	
PCECDCID	150	32
PCECEMER	CB	40
PCECKPID	150	D
PCECNVID	150	3
PCECONID	150	A
PCEDADCT	E8	
PCEDAFL3	10B	
PCEDALEN	10B	1C
PCEDARD	10A	0
PCEDAWR	10A	1
PCEDCT	110	
PCEDCTFL	F4	
PCEDCTPC	F0	
PCEDEVTP	10A	
PCEDILID	150	29
PCEDLSID	150	33
PCEDOM68	0	9C
PCEDRPID	150	37
PCEDRTID	150	38
PCEDSPXP	C9	40
PCEDSPXT	C9	20
PCEDWNID	150	30
PCEEDSID	150	35
PCEENFID	150	2A
PCEEOMID	150	2D
PCEERA	C0	
PCEEWF	C8	
PCEEYE	0	
PCEFCLID	150	23
PCEFLAGS	C9	
PCEFLAG2	CA	
PCEFLAG3	13A	
PCEFLGCS	CB	



Table 76. Cross Reference for \$PCE (continued)

Name	Offset	Hex Tag
PCEFSACB	12C	
PCEGEMOK	CB	80
PCEID	CE	
PCEINRID	150	8
PCEINTID	150	17
PCEIOEWF	104	
PCEIRCID	150	2F
PCEJCMID	150	25
PCEJOBID	118	
PCEJOBTK	120	
PCEJOIID	150	34
PCEJPAID	150	E
PCEJQE	114	
PCEJQEIX	11C	
PCEJQRID	150	2E
PCELCLID	150	1
PCELENG	10C	
PCELPSV	0	A0
PCEMLMID	150	B
PCMQTR	FA	
PCMQTRD	F8	
PCMSCID	150	2C
PCENDSPC	CC	
PCENEXT	B4	
PCENJEID	150	4
PCENJRID	150	11
PCENJTID	150	10
PCENODEV	150	0
PCENPMID	150	14
PCENRMID	150	31
PCENRRID	150	1B
PCENRTID	150	1C
PCENSRID	150	13
PCENSTID	150	12
PCENTITY	134	
PCENWIOP	C9	10
PCEOPAID	150	22
PCEOUTID	150	6
PCEPCEA	B8	



Table 76. Cross Reference for \$PCE (continued)

Name	Offset	Hex Tag
PCEPCEB	BC	
PCEPCECT	140	
PCEPCYID	150	36
PCEPNADJ	148	
PCEPOSTD	D8	
PCEPRE	C4	
PCEPREV	B0	
PCEPRGID	150	9
PCEPRIO	C9	2
PCEPRIVI	CB	20
PCEPRSID	150	80
PCEPRTID	150	7
PCEPSOID	150	5
PCEPSTCH	DC	
PCEPSTEW	DB	
PCEPTAB	128	
PCEPUNID	150	8
PCEPUSID	150	40
PCERCPID	150	15
PCERDRID	150	1
PCEREQIR	C9	1
PCERESID	150	1E
PCERJEID	150	2
PCEROLOQ	10E	
PCESEEEK	F8	
PCESEEEKF	F8	
PCESSEQ	10F	
PCESFSID	150	21
PCESNFID	150	1D
PCESPIID	150	28
PCESPMID	150	1A
PCESPNID	150	20
PCESTCID	150	1F
PCETEXID	150	16
PCETIMID	150	C
PCETRACE	C9	80
PCETRLDS	C9	4
PCETRPSF	C9	8
PCEUSER0	D0	



Table 76. Cross Reference for \$PCE (continued)

Name	Offset	Hex Tag
PCEUSER1	D4	
PCEVTLID	150	18
PCEWAVE	130	
PCEWORK	150	
PCEWORKA	14C	
PCEWRMID	150	F
PCEWTTIM	E0	
PCEXCFID	150	24
PCEXCMID	150	27
PCEXEQID	150	4
PCEXFMID	150	19
PCEXFRID	150	20
PCEXITID	0	99
PCE2EBUF	CA	40
PCE2ENDD	CA	80
PCE2EVNT	CA	20
PCE2INIT	CA	10
PCE2QSUS	CA	8
PCE2SJID	CA	2
PCE2SJIX	CA	1
PCE2XWTR	CA	4
PCE3\$SCN	13A	8
PCE3HPFL	13A	80
PCE3NO\$W	13A	40
PCE3PST1	13A	20
PCE3SQSU	13A	10

## \$PCL information

### \$PCL heading information

**Common name:** Persistent Connection Line element  
**Macro ID:** \$PCL  
**DSECT name:** PCL  
**Owning component:** JES2 (SC1BH)  
**Eye-catcher ID:** 'PCL '  
 Offset: PCLID-PCL  
 Length: 4



**Storage attributes:** Subpool: n/a  
Key: 1  
Residency: In the jesxPCL data space in cpool PCL

**Size:** See PCLLEN

**Created by:** JES2 line manager

**Pointed to by:** MDCTPCL field of the \$DCT data area  
NSCSPCL field of the \$NSCT data area  
NSSLPCL field of the \$NSST data area  
PCTPCLAQ field of the \$PCT data area  
PCTPCLSQ field of the \$PCT data area  
PCLPCL field of the \$PCL data area  
PCLPCLSV field of the \$PCL data area  
PCLNEXT field of the \$PCL data area  
PCLPREV field of the \$PCL data area  
PCLSNEXT field of the \$PCL data area  
PCLSPREV field of the \$PCL data area  
TBFPCCL field of the \$TBUF data area  
TBFLNPCL field of the \$TBUF data area

**Serialization:** Most fields require only JES2 main task serialization.  
Chaining fields generally are serialized by the  
FIFOENQ service.

**Function:** Contains parameters for a line or NETSRV device  
which are shared between the JES2 address space and  
the NJE server address space.

## \$PCL mapping

Table 77. Structure PCL

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCL	
0	(0)	CHARACTER	4	PCLID	PCL eyecatcher
4	(4)	ADDRESS	1	PCLVER	PCL version number
4	(4)	X'1'	0	PCLVERN	"1" PCL version
5	(5)	BITSTRING	1	PCLDTYPE	PCL Device type
5	(5)	X'1'	0	PCLDTLNE	"1" PCL associated with Line
5	(5)	X'2'	0	PCLDTSRV	"2" PCL associated with Server
6	(6)	BITSTRING	1	PCLTTYPE	PCL Connection type
6	(6)	X'1'	0	PCLTTCP	"1" TCP/IP connection
8	(8)	ADDRESS	4	PCLNEXT	Address of next PCL
12	(C)	ADDRESS	4	PCLPREV	Address of prior PCL
The node definitions below define the local node (for server PCLs) or the adjacent node node (for line PCLs)					
16	(10)	CHARACTER	8	PCLNNAME	Node name
24	(18)	SIGNED	2	PCLNNUM	Node number
26	(1A)	BITSTRING	2		Reserved
28	(1C)	ADDRESS	4	PCLDCT	DCT address (JES2 Private)
32	(20)	SIGNED	2	PCLDNUM	Device number of DCT
34	(22)	BITSTRING	1	PCLFLAG1	Common PCL Flags



Table 77. Structure PCL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ....		PCL1TRAC	"B'10000000'" JES tracing active
		.1.. ....		PCL1CTRC	"B'01000000'" NETSRV tracing active
		..1. ....		PCL1VERB	"B'00100000'" Verbose diagnostics
35	(23)	BITSTRING	1		Reserved
Outbound buffers are queued here. These buffers are in the jesxTBUF data space. The buffers are added to the tail of the queue and removed from the head atomically via the PLO instruction.					
36	(24)	ADDRESS	4	PCLOBUFH	Outbound buffer queue head
40	(28)	ADDRESS	4	PCLOBUFT	Outbound buffer queue tail
Inbound buffers are queued here. These buffers are in the jesxTBUF data space. The buffers are added to the tail of the queue and removed from the head atomically via the PLO instruction.					
44	(2C)	ADDRESS	4	PCLIBUFH	Inbound buffer queue head
48	(30)	ADDRESS	4	PCLIBUFT	Inbound buffer queue tail
52	(34)	SIGNED	4	PCLICNT	Inbound buffer queue count
56	(38)	DBL WORD	8	PCLEXORG(0)	Origins for PCL extension
Extension for LINE type PCLs					
56	(38)	BITSTRING	2	PCLREST	Connection resistance
58	(3A)	BITSTRING	1	PCLQUAL	Member # of adjacent node
60	(3C)	ADDRESS	4	PCLSNEXT	Next line on server chain
64	(40)	ADDRESS	4	PCLSPREV	Prior line on server chain
68	(44)	ADDRESS	4	PCLPCLSV	Pointer to server PCL
72	(48)	BITSTRING	1	PCLLFLG1	Flags
		1... ....		PCLL1DED	"B'10000000'" A dedicated packet of subdevices is associated with this line
		.1.. ....		PCLL1DND	"B'01000000'" Line is dedicated to node
		..1. ....		PCLL1DSC	"B'00100000'" Line is dedicated to socket
		...1 ....		PCLL1CON	"B'00010000'" This line is connected
		.... 1...		PCLL1NET	"B'00001000'" Networking has started
		.... .1..		PCLL1DPR	"B'00000100'" Default port used
		.... ..1.		PCLL1KIL	"B'00000010'" Disconnect line
		.... ...1		PCLL1STR	"B'00000001'" Subtask requested
73	(49)	BITSTRING	1	PCLLFLG2	Flags
		1... ....		PCLL2SSL	"B'10000000'" Secure socket used
		.1.. ....		PCLL2NTY	"B'01000000'" Non-retryable error
74	(4A)	BITSTRING	2		Reserved
76	(4C)	ADDRESS	4	PCLNLDV(0)	Subdevice counts
76	(4C)	ADDRESS	1	PCLJTNM	Number of job xmitters
77	(4D)	ADDRESS	1	PCLJRNM	Number of job receivers
78	(4E)	ADDRESS	1	PCLSTNM	Number of SYSOUT xmitters
79	(4F)	ADDRESS	1	PCLSRNM	Number of sysout receivers



Table 77. Structure PCL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Data specific to each subdevice (line counts, etc)					
80	(50)	DBL WORD	8	PCLELM(0)	Force alignment
80	(50)	BITSTRING	112	PCLJTELM(7)	Data for 7 job xmitters
192	(C0)	BITSTRING	112	PCLJRELM(7)	Data for 7 job receivers
304	(130)	BITSTRING	168	PCLSTEM(7)	Data for 7 SYSOUT xmitters
472	(108)	BITSTRING	1	PCLSRELM(7)	Data for 7 SYSOUT receivers
472	(108)	X'1F8'	0	PCLELML	"*-PCLELM" Composite area length
584	(248)	DBL WORD	8	PCLDATA(0)	Variable data, based on PCLTYPE
TCP/IP Line specific data					
584	(248)	ADDRESS	4	PCLNSST	Address of NSST (in netsrv address space)
588	(24C)	CHARACTER	8	PCLLSCKN	Name of associated SCK
596	(254)	CHARACTER	255	PCLLIPNM	IP address (EBCDIC)
851	(353)	CHARACTER	1		Reserved
852	(354)	BITSTRING	16	PCLLIPAD	IP address (binary)
868	(364)	CHARACTER	16	PCLLPRTN	Port name (EBCDIC)
884	(374)	SIGNED	2	PCLLPOR	Port number (binary)
886	(376)	SIGNED	2	PCLLOPRT	Original port # from socket
888	(378)	BITSTRING	4	PCLLFEAT	Signon feature flags
892	(37C)	SIGNED	4	PCLLSKID	Socket id (assigned by IAZNJSTK)
896	(380)	BITSTRING	16	PCLLSTTT	NETSRV subtask TCB token
912	(390)	ADDRESS	4	PCLLSTKA	Addr of IAZNJSTK module
916	(394)	CHARACTER	8	PCLLAPAR	APAR number from module
924	(39C)	CHARACTER	8	PCLLDATE	Date of assembly
932	(3A4)	CHARACTER	5	PCLLTIME	Time of assembly
937	(3A9)	BITSTRING	7		Reserved
944	(3B0)	CHARACTER	255	PCLLIIPN	Initial IP address (EBCDIC)
1199	(4AF)	BITSTRING	1		Reserved
1200	(4B0)	CHARACTER	16	PCLLIPRN	Initial Port name (EBCDIC)
1216	(4C0)	SIGNED	4	(4)	Reserved for future use
1232	(4D0)	DBL WORD	8	(0)	
Extension for SERVER type PCLs					
56	(38)	CHARACTER	8	PCLPGM	Program to start
64	(40)	CHARACTER	8	PCLPROC	Proc to use
72	(48)	CHARACTER	8	PCLNAME	Address space name
80	(50)	CHARACTER	8	PCLSTACK	TCP/IP Stack to listen on
88	(58)	BITSTRING	8	PCLASCBT	Address Space Token
96	(60)	ADDRESS	4	PCLASCB	ASCB address
100	(64)	SIGNED	2	PCLASID	ASID
102	(66)	SIGNED	2	PCLSBFSZ	Maximum buffer size
104	(68)	BITSTRING	4	PCLSFEAT	Signon feature flags
108	(6C)	ADDRESS	2	PCLKEEPI	Keepalive interval
110	(6E)	BITSTRING	2		Reserved for future use



Table 77. Structure PCL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Queue heads for line DCTs running under this server					
112	(70)	ADDRESS	4	PCLLPCLH	Line PCL queue head
116	(74)	ADDRESS	4	PCLLPCLT	Line PCL queue tail
120	(78)	DBL WORD	8	PCLSDATA(0)	Server dependent data
TCP/IP Server specific data					
120	(78)	ADDRESS	4	PCLTCT	Address of IAZYTCT (in netsrv address space)
124	(7C)	ADDRESS	4	PCLNCPE	Address of post element
128	(80)	CHARACTER	8	PCLSSCKN	Name of associated SCK
136	(88)	CHARACTER	255	PCLSIPNM	Server IP address (EBCDIC)
391	(187)	CHARACTER	1		Reserved
392	(188)	BITSTRING	16	PCLSIPAD	Server IP address (binary)
408	(198)	CHARACTER	16	PCLSPRTN	Server Port name (EBCDIC)
424	(1A8)	SIGNED	2	PCLSPORT	Server Port number (binary)
426	(1AA)	BITSTRING	1	PCLSFLG1	Server Flags
		1... ....		PCLS1SSL	"B'10000000'" Secure socket
		.1.. ....		PCLS1SLO	"B'01000000'" Secure socket only
		..1. ....		PCLS1SLD	"B'00100000'" TLS defaulted from socket
		...1 ....		PCLS1SOS	"B'00010000'" SOCKET ind SECURE=YES
		.... 1...		PCLS1DIP	"B'00001000'" Default PORT value used
		.... .1..		PCLS1DPR	"B'00000100'" Default IP address used
		.... ..1.		PCLS1DRN	"B'00000010'" \$P NETSRV issued
428	(1AC)	ADDRESS	4	PCLSTCPA	Addr of IAZNJTCP module
432	(1B0)	CHARACTER	8	PCLSAPAR	APAR number from module
440	(1B8)	CHARACTER	8	PCLSDATE	Date of assembly
448	(1C0)	CHARACTER	5	PCLSTIME	Time of assembly
453	(1C5)	BITSTRING	3		Reserved
456	(1C8)	CHARACTER	255	PCLSIIPN	Initial IP address (EBCDIC)
711	(2C7)	BITSTRING	1		Reserved
712	(2C8)	CHARACTER	16	PCLSIPRN	Initial Port name (EBCDIC)
728	(2D8)	DBL WORD	8	(0)	End of type dependent data
1232	(4D0)	X'4D0'	0	PCLLEN	"*-PCL"

Table 78. Structure PCLJT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCLJT	Job Transmitter data
0	(0)	SIGNED	4	PCLJTJID	Job # of active job
4	(4)	BITSTRING	1	PCLJTFG1	Status flags
		1... ....		PCLJTFC1	"B'10000000'" Job complete
		.1.. ....		PCLJTFR1	"B'01000000'" Restart job
		..1. ....		PCLJTFF1	"B'00100000'" Hold job
		...1 ....		PCLJTFD1	"B'00010000'" Drain transmitter
		.... 1...		PCLJTFS1	"B'00001000'" Start transmitter



Table 78. Structure PCLJT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... .1..		PCLJTF1E	"B'00000100'" \$C/\$E of xmitter issued
		.... ..1.		PCLJTF1F	"B'00000010'" EOF sent for current job
		.... ...1		PCLJTF1W	"B'00000001'" Wake up xmitter PCE
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	SIGNED	4	PCLJTRCT	Records sent so far
12	(C)	SIGNED	4	PCLJTRTO	Total records in job stream
12	(C)	X'10'	0	PCLJTLEN	"*-PCLJT" Size

Table 79. Structure PCLJR

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCLJR	Job Receiver data
0	(0)	SIGNED	4	PCLJRJID	Job # of active job
4	(4)	BITSTRING	1	PCLJRFG1	Status flags
		1... ....		PCLJRF1D	"B'10000000'" Receiver is drained
		.1.. ....		PCLJRF1C	"B'01000000'" \$C of receiver issued
		..1. ....		PCLJRF1E	"B'00100000'" \$E of receiver issued
		...1 ....		PCLJRF1F	"B'00010000'" EOF received current job
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	SIGNED	4	PCLJRRCT	Records received so far
12	(C)	SIGNED	4	PCLJRRT0	Total records in job stream
12	(C)	X'10'	0	PCLJRLEN	"*-PCLJR" Size

Table 80. Structure PCLST

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCLST	SYSOUT Transmitter data
0	(0)	SIGNED	4	PCLSTJID	Job # of active job
4	(4)	SIGNED	4	PCLSTNCH	Offset of first JOE
8	(8)	BITSTRING	1	PCLSTFG1	Status flags
		1... ....		PCLSTF1C	"B'10000000'" Job complete
		.1.. ....		PCLSTF1R	"B'01000000'" Restart job
		..1. ....		PCLSTF1H	"B'00100000'" Hold job
		...1 ....		PCLSTF1D	"B'00010000'" Drain transmitter
		.... 1...		PCLSTF1S	"B'00001000'" Start transmitter
		.... .1..		PCLSTF1E	"B'00000100'" \$C/\$E of xmitter issued
		.... ..1.		PCLSTF1F	"B'00000010'" EOF sent for current job
		.... ...1		PCLSTF1W	"B'00000001'" Wake up xmitter PCE
9	(9)	BITSTRING	1	PCLSTFG2	Status flags - Flags to be serialized by OIL & NIL
		1... ....		PCLSTF20	"B'10000000'" Hold Joes
10	(A)	BITSTRING	2		Reserved for future use
12	(C)	SIGNED	4	PCLSTRCT	Records sent so far
16	(10)	SIGNED	4	PCLSTRTO	Total records in SYSOUT stream
20	(14)	SIGNED	4	PCLSTEXC	# of logical puts to line



Table 80. Structure PCLST (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
20	(14)	X'18'	0	PCLSTLEN	"*-PCLST" Size

Table 81. Structure PCLSR

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCLSR	SYSOUT Receiver data
0	(0)	SIGNED	4	PCLSRJID	Job # of active job
4	(4)	BITSTRING	1	PCLSRFG1	Status flags
		1... ....		PCLSRF1D	"B'10000000'" Receiver is drained
		.1.. ....		PCLSRF1C	"B'01000000'" \$C of receiver issued
		..1. ....		PCLSRF1E	"B'00100000'" \$E of receiver issued
		...1 ....		PCLSRF1F	"B'00010000'" EOF received current job
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	SIGNED	4	PCLSRRCT	Records received so far
12	(C)	SIGNED	4	PCLSRRT0	Total records in SYSOUT stream
12	(C)	X'10'	0	PCLSRLEN	"*-PCLSR" Size

Table 82. Cross Reference for \$PCL

Name	Offset	Hex Tag
PCL	0	
PCLASCB	60	
PCLASCBT	58	
PCLASID	64	
PCLDATA	248	
PCLDCT	1C	
PCLDNUM	20	
PCLDTLNE	5	1
PCLDTSRV	5	2
PCLDTYPE	5	
PCLELM	50	
PCLELML	1D8	1F8
PCLEXORG	38	
PCLFLAG1	22	
PCLIBUFH	2C	
PCLIBUFT	30	
PCLICNT	34	
PCLID	0	D7C3D340
PCLJR	0	
PCLJRELM	C0	
PCLJRFG1	4	
PCLJRF1C	4	40



Table 82. Cross Reference for \$PCL (continued)

Name	Offset	Hex Tag
PCLJRF1D	4	80
PCLJRF1E	4	20
PCLJRF1F	4	10
PCLJRJID	0	
PCLJRLEN	C	10
PCLJRNM	4D	
PCLJRRCT	8	
PCLJRRT0	C	
PCLJT	0	
PCLJTELM	50	
PCLJTFG1	4	
PCLJTF1C	4	80
PCLJTF1D	4	10
PCLJTF1E	4	4
PCLJTF1F	4	2
PCLJTF1H	4	20
PCLJTF1R	4	40
PCLJTF1S	4	8
PCLJTF1W	4	1
PCLJTJID	0	
PCLJTLEN	C	10
PCLJTNM	4C	
PCLJTRCT	8	
PCLJTRT0	C	
PCLKEEPI	6C	
PCLLAPAR	394	
PCLLDAT	39C	
PCLLEN	4D0	4D0
PCLLFEAT	378	
PCLLFLG1	48	
PCLLFLG2	49	
PCLLIIPN	3B0	
PCLLIPAD	354	
PCLLIPNM	254	
PCLLIPRN	4B0	
PCLLOPRT	376	
PCLLPCLH	70	
PCLLPCLT	74	
PCLLPOR	374	



Table 82. Cross Reference for \$PCL (continued)

Name	Offset	Hex Tag
PCLLPRTN	364	
PCLLSCKN	24C	
PCLLSKID	37C	
PCLLSTKA	390	
PCLLSTTT	380	
PCLLTIME	3A4	
PCLL1CON	48	10
PCLL1DED	48	80
PCLL1DND	48	40
PCLL1DPR	48	4
PCLL1DSC	48	20
PCLL1KIL	48	2
PCLL1NET	48	8
PCLL1STR	48	1
PCLL2NTY	49	40
PCLL2SSL	49	80
PCLNAME	48	9185A2A7
PCLNCPE	7C	
PCLNEXT	8	
PCLNLDV	4C	
PCLNNAME	10	
PCLNNUM	18	
PCLNSST	248	
PCLOBUFH	24	
PCLOBUFT	28	
PCLPCLSV	44	
PCLPGM	38	C9C1E9D5
PCLPREV	C	
PCLPROC	40	C9C5C5E2
PCLQUAL	3A	
PCLREST	38	
PCLSAPAR	1B0	
PCLSBFSZ	66	
PCLSDATA	78	
PCLSDATE	1B8	
PCLSFEAT	68	
PCLSFLG1	1AA	
PCLSIIPN	1C8	
PCLSIPAD	188	



Table 82. Cross Reference for \$PCL (continued)

Name	Offset	Hex Tag
PCLSIPNM	88	
PCLSIPRN	2C8	
PCLSNEXT	3C	
PCLSPORT	1A8	
PCLSPREV	40	
PCLSPRTN	198	
PCLSR	0	
PCLSRELM	1D8	
PCLSRFG1	4	
PCLSRF1C	4	40
PCLSRF1D	4	80
PCLSRF1E	4	20
PCLSRF1F	4	10
PCLSRJID	0	
PCLSRLEN	C	10
PCLSRNM	4F	
PCLSRRCT	8	
PCLSRRT0	C	
PCLSSCKN	80	
PCLST	0	
PCLSTACK	50	40404040
PCLSTCPA	1AC	
PCLSTELM	130	
PCLSTEXC	14	
PCLSTFG1	8	
PCLSTFG2	9	
PCLSTF1C	8	80
PCLSTF1D	8	10
PCLSTF1E	8	4
PCLSTF1F	8	2
PCLSTF1H	8	20
PCLSTF1R	8	40
PCLSTF1S	8	8
PCLSTF1W	8	1
PCLSTF20	9	80
PCLSTIME	1C0	
PCLSTJID	0	
PCLSTLEN	14	18
PCLSTNCH	4	



Table 82. Cross Reference for \$PCL (continued)

Name	Offset	Hex Tag
PCLSTNM	4E	
PCLSTRCT	C	
PCLSTRTO	10	
PCLS1DIP	1AA	8
PCLS1DPR	1AA	4
PCLS1DRN	1AA	2
PCLS1SLD	1AA	20
PCLS1SLO	1AA	40
PCLS1SOS	1AA	10
PCLS1SSL	1AA	80
PCLTCT	78	
PCLTTCP	6	1
PCLTTYPE	6	
PCLVER	4	
PCLVERN	4	1
PCL1CTRC	22	40
PCL1TRAC	22	80
PCL1VERB	22	20

## \$PCT information

### \$PCT programming interface information

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

- PCTPCLAH
- PCTPCLAQ
- PCTPCLAT
- PCTPCLSH
- PCTPCLSQ
- PCTPCLST

### \$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: 241  
Key: 1  
Residency: Virtual and real storage are anywhere (above or below 16M) in CSA

**Size:** See PCTLEN

**Created by:** Routine IRSSI during JES2 initialization

**Pointed to by:** CCTPCT field of the \$HCCT 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 mapping

Table 83. Structure PCT

Offset Dec	Offset Hex	Type	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'3'	0	PCTVERN	"3" PCT version
5	(5)	BITSTRING	3		Reserved for future use
NAT queue heads and other fields are maintained across a hot start					
8	(8)	ADDRESS	4	PCTNATAH	Ptr to head of active NAT queue
12	(C)	ADDRESS	4	PCTNATAT	Ptr to tail of active NAT queue
16	(10)	ADDRESS	4	PCTNATUH	Ptr to head of unconnected NAT que
20	(14)	ADDRESS	4	PCTNATUT	Ptr to tail of unconnected NAT que
24	(18)	ADDRESS	4	PCTNATHH	Ptr to head of held NAT queue
28	(1C)	ADDRESS	4	PCTNATHT	Ptr to tail of held NAT queue
32	(20)	ADDRESS	4	PCTNATNH	Head of temp ACTIVE NAT que
36	(24)	ADDRESS	4	PCTNATNT	Tail of temp ACTIVE NAT que
36	(24)	X'8'	0	PCTNATQS	"PCTNATAH,*-PCTNATAH" All NAT queue heads/tails
40	(28)	SIGNED	4	PCTTTOL	TOD tolerance for connections
40	(28)	X'15180'	0	PCTTTOLD	"1440*60" Default TOD tolerance
44	(2C)	ADDRESS	4	PCTTINQ(0)	TCP/IP NPM buffer queue
44	(2C)	ADDRESS	4	PCTTINQH	TCP/IP NPM buffer q head
48	(30)	ADDRESS	4	PCTTINQT	TCP/IP NPM buffer q tail
52	(34)	ADDRESS	4	PCTTRCPQ(0)	TCP/IP RCP buffer chain
52	(34)	ADDRESS	4	PCTTRCPH	TCP/IP RCP buffer q head
56	(38)	ADDRESS	4	PCTTRCPT	TCP/IP RCP buffer q tail
60	(3C)	ADDRESS	4	PCTTMPIQ(0)	Temp inbound TCP buf q
60	(3C)	ADDRESS	4	PCTTMPIH	Temp inbound TCP buf q head
64	(40)	ADDRESS	4	PCTTMPIT	Temp inbound TCP buf q tail
68	(44)	SIGNED	4	PCTTBFACT	Count of allocated TBUFs



Table 83. Structure PCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
72	(48)	ADDRESS	4		
76	(4C)	BITSTRING	4	PCTNALET	ALET for NAT cell pool
80	(50)	BITSTRING	4	PCTPALET	ALET for PCL cell pool
84	(54)	BITSTRING	4	PCTTALET	ALET for TBUF cell pool
88	(58)	ADDRESS	4	PCTPCLAQ(0)	Active line PCL queue
88	(58)	ADDRESS	4	PCTPCLAH	Active line PCL head
92	(5C)	ADDRESS	4	PCTPCLAT	Active line PCL tail
96	(60)	ADDRESS	4	PCTPCLSQ(0)	Active Server PCL queue
96	(60)	ADDRESS	4	PCTPCLSH	Active Server PCL head
100	(64)	ADDRESS	4	PCTPCLST	Active Server PCL tail
104	(68)	CHARACTER	16	PCTMBNAM	NPM Mail box name
Line manager post flags. These flags correspond directly to the flags defined in \$MLMWORK - MLMSCNR1, MLMSCNR2, MLMEVNTR and MLMPCTF1. PCTMLMR1, PCTMLMR2 and PCTMLMER must be maintained in this order. OIL and NIL should be used to set the flags; Compare-and-swap is used in the line manager PCE to clear PCTMLMSC word.					
120	(78)	SIGNED	4	PCTMLMSC(0)	MLM SCAN flag bits
120	(78)	BITSTRING	1	PCTMLMR1	Corresponds to MLMSCNR1
121	(79)	BITSTRING	1	PCTMLMR2	Corresponds to MLMSCNR2
122	(7A)	BITSTRING	1	PCTMLMER	Corresponds to MLMEVNTR
123	(7B)	BITSTRING	1	PCTMLMF1	MLM flags:
	1... ....			PCTM1TSA	"B'10000000" NJE over TCP activity
124	(7C)	SIGNED	2	PCTNPATH	Number of paths
126	(7E)	SIGNED	2	PCTMXHOP	Maximum NJE hop count
128	(80)	SIGNED	2	PCTANINT	Default NJE retry interval (minutes)
130	(82)	SIGNED	2		Reserved for future use
132	(84)	SIGNED	4	(3)	Reserved for future use
Pointers to private areas, work fields, etc. must be cleared on a hot start					
132	(84)	X'90'	0	PCTHOTC	"*" Start of area to clear on hot start
144	(90)	ADDRESS	1	PCTFLAG1	NPM process control flags
	1... ....			PCT1PATH	"B'10000000" Full path required
	.1.. ....			PCT1FPNP	"B'01000000" Full path in progress
	..1. ....			PCT1NTUP	"B'00100000" A NAT update has occurred
	...1 ....			PCT1NOT	"B'00010000" Notify required
	.... 1...			PCT1NERR	"B'00001000" NAT error detected
	.... .1..			PCT1NREC	"B'00000100" NRECEIVE in progress
	.... ..1.			PCT1DOWN	"B'00000010" NPM is down
145	(91)	ADDRESS	1	PCTFLAG2	Flags
	1... ....			PCT2NSUB	"B'10000000" NSETSUBS recovery is in progress
	.1.. ....			PCT2NSSS	"B'01000000" NETSRV SUBSYS switch
	.... ..1			PCT2NSIM	"B'00000001" NPMSIM flag (used for internal JES2 testing)



Table 83. Structure PCT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
146	(92)	BITSTRING	6		Reserved for future use
152	(98)	DBL WORD	8	PCTFPTIM	Time last fullpath started
160	(A0)	ADDRESS	4	PCTPATHS	NPMNITPs used by full path
164	(A4)	ADDRESS	4	PCTWORKQ	Queue of nodes for full path to process
168	(A8)	ADDRESS	4	PCTNTQUQ	Unprocessed NTQ chain
172	(AC)	ADDRESS	4	PCTNTQPQ	Processed NTQ chain
176	(B0)	ADDRESS	4	PCTSONQ	Signon queue anchor
180	(B4)	ADDRESS	4	PCTRESPQ	Response queue anchor
184	(B8)	ADDRESS	4	PCTACTL	Active net line DCTs anchor
188	(BC)	ADDRESS	4	PCTRSTL	DCT line restart queue head
192	(C0)	ADDRESS	4	PCTRSTN	DCT NJE restart queue head
196	(C4)	ADDRESS	4	PCTINQ	BSC input buffer queue anchor
200	(C8)	ADDRESS	4	PCTVINQ	VTAM input buffer queue anchor
204	(CC)	ADDRESS	4	PCTMASDN	MAS line drain queue
208	(D0)	ADDRESS	4	PCTPRPIQ	I/J across MAS pending DCT
212	(D4)	SIGNED	2	PCTLNENM	Total number of lines that can do NJE
214	(D6)	SIGNED	2	PCTMAPLN	Length of notify maps
216	(D8)	ADDRESS	4	PCTMINX	Master notify map anchor
220	(DC)	ADDRESS	4	PCTMINXM	MAS master notify map addr
224	(E0)	ADDRESS	4	PCTWINX	Work notify map anchor
228	(E4)	ADDRESS	4	PCTMAPQ	Queue of available notify maps
232	(E8)	ADDRESS	4	PCTNSAAQ	Active net subnet ct head
Addresses of MAS line DCTs for Nodal SPOOLing					
236	(EC)	SIGNED	4	(0)	
236	(EC)	SIGNED	4	PCTDCT1(0)	MAS line DCT address for members 1 through n
364	(16C)	SIGNED	4	PCTMTIME	Time of last NMAINT call
368	(170)	ADDRESS	4	PCTNTW	NPM \$TRACE work area
The following fields are used by routine NPDDMSG to build a symptom record.					
372	(174)	CHARACTER	44	PCTNCC	Current NCC record being received and processed
416	(1A0)	ADDRESS	4	PCTNTQ	Address of current NTQ being processed
420	(1A4)	ADDRESS	4	PCTEDCT	Address of DCT that is related to the error
424	(1A8)	ADDRESS	4	PCTENIT	Address of NIT that is related to the error
The following fields are used by NPEVENT to set CES values for signons.					
432	(1B0)	DBL WORD	8	PCTTOD	Time of day clock value
440	(1B8)	SIGNED	4	PCTEVENT	Current CES value
The following field contains NJE feature flags for features supported by this system					



Table 83. Structure PCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
444	(1BC)	SIGNED	4	PCTIFEAT	NJE feature flags supported by JES2
448	(1C0)	SIGNED	4	PCTNSFEA	NJE feature flags owned by NETSRV, not JES2
452	(1C4)	SIGNED	4	PCTTFEAT	Feature flags to be turned off (test purposes only)
452	(1C4)	X'138'	0	PCTHOTCL	"*-PCTHOTC" Length to be cleared
452	(1C4)	X'1C8'	0	PCTLEN	"*-PCT" Length of the PCT
<p>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.</p>					
452	(1C4)	X'0'	0	PCT\$RC00	"0" A required control block address was not provided
452	(1C4)	X'4'	0	PCT\$RCN1	"4" The primary node in the prototype NAT was invalid, or omitted when required
452	(1C4)	X'8'	0	PCT\$RCM1	"8" The primary member in the prototype NAT was invalid, or omitted when required
452	(1C4)	X'C'	0	PCT\$RCN2	"12" The 2ndary node in the prototype NAT was invalid, or omitted when required
452	(1C4)	X'10'	0	PCT\$RCM2	"16" The 2ndary member in the prototype NAT was invalid, or omitted when required
452	(1C4)	X'14'	0	PCT\$RCRS	"20" The resistance specified in the prototype NAT was invalid
452	(1C4)	X'18'	0	PCT\$RCDP	"24" The primary and secondary node and member of the prototype were identical (\$NATADD only)
452	(1C4)	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

Table 84. Cross Reference for \$PCT

Name	Offset	Hex Tag
PCT	0	
PCT\$RCDP	1C4	18
PCT\$RCM1	1C4	8
PCT\$RCM2	1C4	10
PCT\$RCN1	1C4	4
PCT\$RCN2	1C4	C
PCT\$RCRS	1C4	14
PCT\$RCST	1C4	1C
PCT\$RC00	1C4	0
PCTACTL	B8	
PCTANINT	80	
PCTDCT1	EC	



Table 84. Cross Reference for \$PCT (continued)

Name	Offset	Hex Tag
PCTEDCT	1A4	
PCTENIT	1A8	
PCTEVENT	1B8	
PCTFLAG1	90	
PCTFLAG2	91	
PCTFPTIM	98	
PCTHOTC	84	90
PCTHOTCL	1C4	138
PCTID	0	D7C3E340
PCTIFEAT	1BC	
PCTINQ	C4	
PCTLEN	1C4	1C8
PCTLNENM	D4	
PCTMAPLN	D6	
PCTMAPQ	E4	
PCTMASDN	CC	
PCTMBNAM	68	E2E8E2D1
PCTMINX	D8	
PCTMINXM	DC	
PCTMLMER	7A	
PCTMLMF1	7B	
PCTMLMR1	78	
PCTMLMR2	79	
PCTMLMSC	78	
PCTMTIME	16C	
PCTMXHOP	7E	
PCTM1TSA	7B	80
PCTNALET	4C	
PCTNATAH	8	
PCTNATAT	C	
PCTNATHH	18	
PCTNATHT	1C	
PCTNATNH	20	
PCTNATNT	24	
PCTNATQS	24	8
PCTNATUH	10	
PCTNATUT	14	
PCTNCC	174	
PCTNPATH	7C	



Table 84. Cross Reference for \$PCT (continued)

Name	Offset	Hex Tag
PCTNSAAQ	E8	
PCTNSFEA	1C0	
PCTNTQ	1A0	
PCTNTQPQ	AC	
PCTNTQUQ	A8	
PCTNTW	170	
PCTPALET	50	
PCTPATHS	A0	
PCTPCLAH	58	
PCTPCLAQ	58	
PCTPCLAT	5C	
PCTPCLSH	60	
PCTPCLSQ	60	
PCTPCLST	64	
PCTPRPIQ	D0	
PCTRESPQ	B4	
PCTRSTL	BC	
PCTRSTN	C0	
PCTSONQ	B0	
PCTTALET	54	
PCTTBFCT	44	
PCTTFEAT	1C4	
PCTTINQ	2C	
PCTTINQH	2C	
PCTTINQT	30	
PCTTMPIH	3C	
PCTTMPIQ	3C	
PCTTMPIT	40	
PCTTOD	1B0	
PCTTRCPH	34	
PCTTRCPQ	34	
PCTTRCPT	38	
PCTTTOL	28	
PCTTTOLD	28	15180
PCTVER	4	
PCTVERN	4	3
PCTVINQ	C8	
PCTWINX	E0	
PCTWORKQ	A4	



Table 84. Cross Reference for \$PCT (continued)

Name	Offset	Hex Tag
PCT1DOWN	90	2
PCT1FPNP	90	40
PCT1NERR	90	8
PCT1NOT	90	10
PCT1NREC	90	4
PCT1NTUP	90	20
PCT1PATH	90	80
PCT2NSIM	91	1
PCT2NSSS	91	40
PCT2NSUB	91	80

## \$PCTAB information

### \$PCTAB programming interface information

\$PCTAB is a programming interface.

### \$PCTAB heading information

<b>Common name:</b>	PC table entry
<b>Macro ID:</b>	\$PCTAB
<b>DSECT name:</b>	PCRT
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	None
<b>Storage attributes:</b>	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.
<b>Size:</b>	See PCRTELEN
<b>Created by:</b>	\$PCTAB macro expansion in HASPTAB
<b>Pointed to by:</b>	MCTPCRTU field of the \$MCT data area MCTPCRTH field of the \$MCT data area
<b>Serialization:</b>	None required
<b>Function:</b>	This DSECT maps entries in the PC routine table pairs which describe JES2 main task and user address space PC routines.



## \$PCTAB mapping

Table 85. Structure PCRT

Offset Dec	Offset Hex	Type	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
		1... ....		PCRT1PCU	"B'10000000'" Entry is USER PC routine
		.1.. ....		PCRT1PCH	"B'01000000'" Entry is HASP PC routine
		..1. ....		PCRT1SLX	"B'00100000'" System LX to be used
		...1 ....		PCRT1CKA	"B'00010000'" CALLKEY=ANY specified
		.... 1...		PCRT1AUX	"B'00001000'" RUNAUX=YES specified
33	(21)	BITSTRING	1	PCRTFLG2	PC address locations
EQU B'000000xx' ENTRYPT field in PADDR					
		1... ....		PCRT2EPU	"B'10000000'" ENTRYPT field in the UCT
		.1.. ....		PCRT2EPM	"B'01000000'" ENTRYPT field in MODMAP
		..1. ....		PCRT2EPC	"B'00100000'" ENTRYPT field in CADDR
		...1 ....		PCRT2EPD	"B'00010000'" ENTRYPT field in UCADDR
		.... 1...		PCRT2EPN	"B'00001000'" ENTRYPT field is RTN name
		.... .1..		PCRT2EAV	"B'00000100'" ENTRYPT field is ADDR/VCON
34	(22)	BITSTRING	1	PCRTFLG3	PC routine flags
		1... ....		PCRT3SUP	"B'10000000'" Routine runs in supervisor state
EQU B'x000000x' RECOVPT field in PADDR					
		.1.. ....		PCRT3RVU	"B'01000000'" RECOVPT filed in the UCT
		..1. ....		PCRT3RVM	"B'00100000'" RECOVPT field in MODMAP
		...1 ....		PCRT3RVC	"B'00010000'" RECOVPT field in CADDR
		.... 1...		PCRT3RVD	"B'00001000'" RECOVPT field in UCADDR
		.... .1..		PCRT3RVN	"B'00000100'" RECOVPT field is RTN name
		.... ..1.		PCRT3RAV	"B'00000010'" RECOVPT field is ADDR/VCON
35	(23)	ADDRESS	1	PCRTKEY	PC routine run key
36	(24)	ADDRESS	4	PCRTENTY	Offset/Addr ENTRYPT field
40	(28)	ADDRESS	4	PCRTRECV	Offset/Addr RECOVPT field
44	(2C)	ADDRESS	2	PCRTADDR	Offset in xADDR/UxADDR to store PC #
46	(2E)	ADDRESS	1	PCRTNAML	Length-1 for name in PCRTNAME
47	(2F)	ADDRESS	1	PCRTDESL	Length-1 for description in PTABDESC
48	(30)	ADDRESS	4	PCRTPCNM	PC number for this service
52	(34)	CHARACTER	8	PCRTENTN	ENTRYPT routine name
60	(3C)	CHARACTER	8	PCRTREC�	RECOVPT routine name
68	(44)	BITSTRING	4		RESERVED
72	(48)	SIGNED	4	(0)	Align PCRT entry



Table 85. Structure PCRT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
72	(48)	X'48'	0	PCRTELEN	"*-PCRT" Length of PCRT entry DSECT

Table 86. Cross Reference for \$PCTAB

Name	Offset	Hex	Tag
PCRT	0		
PCRTADDR	2C		
PCRTDESC	8		
PCRTDESL	2F		
PCRTELEN	48		48
PCRTENTN	34		40404040
PCRTENTY	24		
PCRTFLG1	20		
PCRTFLG2	21		
PCRTFLG3	22		
PCRTKEY	23		
PCRTNAME	0		
PCRTNAML	2E		
PCRTPCNM	30		
PCRTRECN	3C		40404040
PCRTRECV	28		
PCRT1AUX	20		8
PCRT1CKA	20		10
PCRT1PCH	20		40
PCRT1PCU	20		80
PCRT1SLX	20		20
PCRT2EAV	21		4
PCRT2EPC	21		20
PCRT2EPD	21		10
PCRT2EPM	21		40
PCRT2EPN	21		8
PCRT2EPU	21		80
PCRT3RAV	22		2
PCRT3RVC	22		10
PCRT3RVD	22		8
PCRT3RVM	22		20
PCRT3RVN	22		4
PCRT3RVU	22		40
PCRT3SUP	22		80



## \$PCYWORK information

### \$PCYWORK heading information

<b>Common name:</b>	JES2 policy services PCE work area
<b>Macro ID:</b>	\$PCYWORK
<b>DSECT name:</b>	PCE (\$PCYWORK is part of the PCE DSECT)
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'PCE ' Offset: PCEEYE-PCE Length: 4
<b>Storage attributes:</b>	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
<b>Size:</b>	See symbol PCWWKSIZ for the length of this work area. The overall length of the PCE is stored in field PCELENG.
<b>Created by:</b>	See \$PCE
<b>Pointed to by:</b>	The \$PCYPCE field of the \$HCT data area. See \$PCE for other pointer fields that apply to all PCE types.
<b>Serialization:</b>	Normal PCE dispatch serialization
<b>Function:</b>	The fields in this work area are used by a JES2 policy services PCE (PCY PCE) and by its support routines. \$PCYWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$PCYWORK are actually part of PCE DSECT, but only map PCEs with the value PCEPCYID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

### \$PCYWORK mapping

Table 87. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	ADDRESS	4	PCWREQU(2)	Policy request queue head
344	(158)	BITSTRING	24	PCWXECB	Policy request ECB
368	(170)	BITSTRING	1	PCWFLAG1	Flags:
	1... ....			PCW1TRY	"B'10000000'" attempt to create CDI/CDT
369	(171)	BITSTRING	3		Reserved
372	(174)	ADDRESS	4	PCWCREQ	Ptr to current request (PCYREQ)
376	(178)	BITSTRING	12	PCWEVTQE	Event Timer Queue Element
388	(184)	BITSTRING	12	PCWRTTQE	Retry Timer Queue Element



Table 87. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
400	(190)	BITSTRING	224	PCWSQD	Embedded SQD
624	(270)	SIGNED	4	PCWERCNT	Recovery count
628	(274)	BITSTRING	4		Reserved for alignment
632	(278)	ADDRESS	8	PCWPIW	Ptr to list of policy interpreter work areas
640	(280)	DBL WORD	8	PCWLIT	Last IMPORT timestamp
648	(288)	BITSTRING	576	PCWPREQ	Embedded PCYREQ
1224	(4C8)	BITSTRING	176	PCWPSV	Embedded PCYREQ
1400	(578)	DBL WORD	8	PCWVAR(0)	Miscellaneous work areas MACDATE -12/21/18-<0>
0	(0)	X'578'	0	M00M1494	"PCWXWCL" ++ ASAXWC NAME
1400	(578)	SIGNED	4	PCWXWCL(0)	++ ASAXWC PARM LIST
1400	(578)	CHARACTER	4	PCWXWCL_XPARMAREA1	++ FIELD_LABEL
1404	(57C)	CHARACTER	24	PCWXWCL_XPARMAREA2	++ FIELD_LABEL
1404	(57C)	X'594'	0	PCWXWCL_PL_END	"*" ++ END OF BASE PLIST
1400	(578)	ADDRESS	4	PCWXWCL_XPATTERNSTR_ADDR	++ ADDR
1404	(57C)	SIGNED	4	PCWXWCL_XPATTERNSTRLEN	++
1408	(580)	ADDRESS	4	PCWXWCL_XSTRING_ADDR	++ ADDR
1412	(584)	SIGNED	4	PCWXWCL_XSTRINGLEN	++
1416	(588)	ADDRESS	4	PCWXWCL_XZEROORMORE_ADDR	++ ADDR
1420	(58C)	ADDRESS	4	PCWXWCL_XONECHAR_ADDR	++ ADDR
1424	(590)	ADDRESS	4	PCWXWCL_XDELIMITER_ADDR	++ ADDR
1400	(578)	ADDRESS	4	PCWXWCL_XPPPATTERNINFO_ADDR	++ ADDR
1404	(57C)	ADDRESS	4	PCWXWCL_XPPPATTERNSTR_ADDR	++ ADDR
1408	(580)	SIGNED	4	PCWXWCL_XPPPATTERNSTRLEN	++
1412	(584)	ADDRESS	4	PCWXWCL_XPPZEROORMORE_ADDR	++ ADDR
1416	(588)	ADDRESS	4	PCWXWCL_XPPONECHAR_ADDR	++ ADDR
1420	(58C)	ADDRESS	4	PCWXWCL_XPPDELIMITER_ADDR	++ ADDR
1404	(57C)	ADDRESS	4	PCWXWCL_XPPSTRING_ADDR	++ ADDR
1408	(580)	SIGNED	4	PCWXWCL_XPPSTRINGLEN	++
1428	(594)	X'1C'	0	PCWXWCLL	"*-PCWXWCL" ++ LENGTH OF PLIST
ASAXWC-0					
0	(0)	X'1C'	0	PCWAXWCL	"*-PCWXWCL" Length of the list form
1428	(594)	BITSTRING	256	PCWXWCWA	Buffer for ASAXWC use
Parameter list for FXECNTRL FXECNTRL MF=(L,PCWFXEP) List form of FXECNTRL macro MACDATE -01/11/18-<0>					
0	(0)	X'698'	0	M00M1495	"PCWFXEP" ++ FXECNTRL NAME
1688	(698)	DBL WORD	8	PCWFXEP(0)	++ FXECNTRL PARM LIST
1688	(698)	BITSTRING	1	PCWFXEP_XVERSION	++ INPUT XVERSION
1689	(699)	BITSTRING	1	PCWFXEP_XREQUEST	++ XREQUEST
1689	(699)	X'1'	0	PCWFXEP_XREQUEST_SETFUNCENBL	"1" ++ XREQUEST.SETFUNCENBL KEYWORD
1689	(699)	X'2'	0	PCWFXEP_XREQUEST_UPDFUNCUSE	



Table 87. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
					"2" ++ XREQUEST.UPDFUNCUSE KEYWORD
1689	(699)	X'3'	0	PCWFXEP_XREQUEST_APPLYIPLPARM	
					"3" ++ XREQUEST.APPLYIPLPARM KEYWORD
1690	(69A)	CHARACTER	2	PCWFXEP_XRSV0002	++ RESERVED
1692	(69C)	BITSTRING	2	PCWFXEP_XVENDORSL0T	++
1694	(69E)	BITSTRING	2	PCWFXEP_XPRODUCTSL0T	++
1696	(6A0)	BITSTRING	2	PCWFXEP_XFUNCTIONSL0T	++
1698	(6A2)	BITSTRING	1	PCWFXEP_XFUNCTIONUPDTYPE	++ XFUNCTIONUPDTYPE
1698	(6A2)	X'0'	0	PCWFXEP_XFUNCTIONUPDTYPE_ANYAUTH	
					"0" ++ XFUNCTIONUPDTYPE.ANYAUTH KEYWORD
1698	(6A2)	X'1'	0	PCWFXEP_XFUNCTIONUPDTYPE_AUTHONLY	
					"1" ++ XFUNCTIONUPDTYPE.AUTHONLY KEYWORD
1698	(6A2)	X'2'	0	PCWFXEP_XFUNCTIONUPDTYPE_VALUE	
					"2" ++ XFUNCTIONUPDTYPE.VALUE KEYWORD
1699	(6A3)	BITSTRING	1	PCWFXEP_XENABLED	++ XENABLED
1699	(6A3)	X'0'	0	PCWFXEP_XENABLED_NO	"0" ++ XENABLED.NO KEYWORD
1699	(6A3)	X'1'	0	PCWFXEP_XENABLED_YES	"1" ++ XENABLED.YES KEYWORD
1699	(6A3)	X'2'	0	PCWFXEP_XENABLED_VALUE	"2" ++ XENABLED.VALUE KEYWORD
1700	(6A4)	BITSTRING	1	PCWFXEP_XKEYUSED	++ FIELD_LABEL
		1... ....		PCWFXEP_KEYUSED_VENDORNAME	"B'10000000'" ++ KEYUSED.VENDORNAME KEYWORD
		.1.. ....		PCWFXEP_KEYUSED_PRODUCTNAME	
					"B'01000000'" ++ KEYUSED.PRODUCTNAME KEYWORD
		..1. ....		PCWFXEP_KEYUSED_FUNCTIONNAME	
					"B'00100000'" ++ KEYUSED.FUNCTIONNAME KEYWORD
		...1 ....		PCWFXEP_KEYUSED_PRODUCTID	"B'00010000'" ++ KEYUSED.PRODUCTID KEYWORD
		.... 1...		PCWFXEP_KEYUSED_INSTANCEID	"B'00001000'" ++ KEYUSED.INSTANCEID KEYWORD
		.... .1..		PCWFXEP_KEYUSED_APPLYCOUNT	"B'00000100'" ++ KEYUSED.APPLYCOUNT KEYWORD
1701	(6A5)	CHARACTER	1	PCWFXEP_XRSV0013	++ RESERVED
1702	(6A6)	BITSTRING	1	PCWFXEP_XFUNCUPDTYPEVALUE	++ FIELD_LABEL
1703	(6A7)	BITSTRING	1	PCWFXEP_XENABLEDVALUE	++
1704	(6A8)	SIGNED	4	PCWFXEP_XPRODUCTID_ALET	++ ALET
1708	(6AC)	SIGNED	4	PCWFXEP_XINSTANCEID_ALET	++ ALET
1712	(6B0)	ADDRESS	8	PCWFXEP_XPRODUCTID_ADDR3164	
					++ ADDR3164
1720	(6B8)	ADDRESS	8	PCWFXEP_XINSTANCEID_ADDR3164	
1728	(6C0)	SIGNED	4	PCWFXEP_XVENDORNAME_ALET	++ ALET
1732	(6C4)	SIGNED	4	PCWFXEP_XPRODUCTNAME_ALET	++ ALET
1736	(6C8)	ADDRESS	8	PCWFXEP_XVENDORNAME_ADDR3164	
1744	(6D0)	ADDRESS	8	PCWFXEP_XPRODAREAADDR	++
1752	(6D8)	SIGNED	4	PCWFXEP_XFUNCTIONNAME_ALET	++ ALET



Table 87. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1756	(6DC)	CHARACTER	4	PCWFXEP_XRSV0068	++ RESERVED
1760	(6E0)	ADDRESS	8	PCWFXEP_XFUNCTIONNAME_ADDR3164	
1768	(6E8)	DBL WORD	8	PCWFXEP_XAPPLYCOUNT	++
1776	(6F0)	CHARACTER	40	PCWFXEP_XRSV0088	++ RESERVED
1776	(6F0)	X'718'	0	PCWFXEP_PL_END	"*" ++ END OF BASE PLIST
1744	(6D0)	ADDRESS	8	PCWFXEP_XPRODUCTNAME_ADDR3164	
1744	(6D0)	ADDRESS	8	PCWFXEP_XPRODUCTAREA_ADDR3164	
1816	(718)	X'80'	0	PCWFXEPL	"*-PCWFXEP" ++ LENGTH OF PLIST
FXECNTRL-0					
1816	(718)	DBL WORD	8	(0)	Force alignment
1816	(718)	X'5C8'	0	PCWWSIZ	"*-PCEWORK" Length of PCY PCE work area PRINT ON

Table 88. Cross Reference for \$PCYWORK

Name	Offset	Hex Tag
M00M1494	0	578
M00M1495	0	698
PCE	0	
PCWAXWCL	0	1C
PCWCREQ	174	
PCWERCNT	270	
PCWEVTQE	178	
PCWFLAG1	170	
PCWFXEP	698	
PCWFXEP_KEYUSED_APPLYCOUNT	6A4	4
PCWFXEP_KEYUSED_FUNCTIONNAME	6A4	20
PCWFXEP_KEYUSED_INSTANCEID	6A4	8
PCWFXEP_KEYUSED_PRODUCTID	6A4	10
PCWFXEP_KEYUSED_PRODUCTNAME	6A4	40
PCWFXEP_KEYUSED_VENDORNAME	6A4	80
PCWFXEP_PL_END	6F0	718
PCWFXEP_XAPPLYCOUNT	6E8	
PCWFXEP_XENABLED	6A3	
PCWFXEP_XENABLED_NO	6A3	0
PCWFXEP_XENABLED_VALUE	6A3	2
PCWFXEP_XENABLED_YES	6A3	1
PCWFXEP_XENABLEDVALUE	6A7	
PCWFXEP_XFUNCTIONNAME_ADDR3164	6E0	
PCWFXEP_XFUNCTIONNAME_ALET	6D8	
PCWFXEP_XFUNCTIONSLOT	6A0	



Table 88. Cross Reference for \$PCYWORK (continued)

Name	Offset	Hex Tag
PCWFXEP_XFUNCTIONUPDTYPE	6A2	
PCWFXEP_XFUNCTIONUPDTYPE_ANYAUTH	6A2	0
PCWFXEP_XFUNCTIONUPDTYPE_AUTHONLY	6A2	1
PCWFXEP_XFUNCTIONUPDTYPE_VALUE	6A2	2
PCWFXEP_XFUNCUPDTYPEVALUE	6A6	
PCWFXEP_XINSTANCEID_ADDR3164	6B8	
PCWFXEP_XINSTANCEID_ALET	6AC	
PCWFXEP_XKEYSUSED	6A4	
PCWFXEP_XPRODAREAADDR	6D0	
PCWFXEP_XPRODUCTAREA_ADDR3164	6D0	
PCWFXEP_XPRODUCTID_ADDR3164	6B0	
PCWFXEP_XPRODUCTID_ALET	6A8	
PCWFXEP_XPRODUCTNAME_ADDR3164	6D0	
PCWFXEP_XPRODUCTNAME_ALET	6C4	
PCWFXEP_XPRODUCTSLOT	69E	
PCWFXEP_XREQUEST	699	
PCWFXEP_XREQUEST_APPLYIPLPARM	699	3
PCWFXEP_XREQUEST_SETFUNCENBL	699	1
PCWFXEP_XREQUEST_UPDFUNCUSE	699	2
PCWFXEP_XRSV0002	69A	
PCWFXEP_XRSV0013	6A5	
PCWFXEP_XRSV0068	6DC	
PCWFXEP_XRSV0088	6F0	
PCWFXEP_XVENDORNAME_ADDR3164	6C8	
PCWFXEP_XVENDORNAME_ALET	6C0	
PCWFXEP_XVENDORSLOT	69C	
PCWFXEP_XVERSION	698	
PCWFXEPL	718	80
PCWLIT	280	
PCWPIW	278	
PCWPREQ	288	
PCWPSV	4C8	
PCWREQQU	150	
PCWRTTQE	184	
PCWSQD	190	
PCWVAR	578	
PCWWKSIZ	718	5C8
PCWXECB	158	
PCWXWCL	578	



Table 88. Cross Reference for \$PCYWORK (continued)

Name	Offset	Hex Tag
PCWXWCL_PL_END	57C	594
PCWXWCL_XDELIMITER_ADDR	590	
PCWXWCL_XONECHAR_ADDR	58C	
PCWXWCL_XPARAMAREA1	578	
PCWXWCL_XPARAMAREA2	57C	
PCWXWCL_XPATTERNSTR_ADDR	578	
PCWXWCL_XPATTERNSTRLEN	57C	
PCWXWCL_XPPDELIMITER_ADDR	58C	
PCWXWCL_XPPONECHAR_ADDR	588	
PCWXWCL_XPPPATTERNINFO_ADDR	578	
PCWXWCL_XPPPATTERNSTR_ADDR	57C	
PCWXWCL_XPPPATTERNSTRLEN	580	
PCWXWCL_XPPSTRING_ADDR	57C	
PCWXWCL_XPPSTRINGLEN	580	
PCWXWCL_XPPZEROORMORE_ADDR	584	
PCWXWCL_XSTRING_ADDR	580	
PCWXWCL_XSTRINGLEN	584	
PCWXWCL_XZEROORMORE_ADDR	588	
PCWXWCLL	594	1C
PCWXWCWA	594	
PCW1TRY	170	80

## \$PDDB information

### \$PDDB programming interface information

\$PDDB is a programming interface.

### \$PDDB heading information

<b>Common name:</b>	JES2 Peripheral Data Definition Block
<b>Macro ID:</b>	\$PDDB
<b>DSECT name:</b>	PDB
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	None
<b>Storage attributes:</b>	Subpool: Same as the \$IOT that contains the PDDB Key: Same as the \$IOT that contains the PDDB Residency: See \$IOT
<b>Size:</b>	See PDBLEN1 and PDBLENM



<b>Created by:</b>	\$PDBBLD creates a PDDDB within an IOT. Storage is obtained when the IOT in which it resides is created. See \$IOT for additional information.
<b>Pointed to by:</b>	IOTPDDDB field of the \$IOT data area contains the offset from the beginning of the IOT to the first PDDDB within the IOT. Various fields in the processor work areas. Various fields in the exit parameter lists (\$XPL).
<b>Serialization:</b>	JES2 reentrancy techniques for PDDDBs in the JES2 main task environment. SJB lock for PDDDBs in the USER environment.
<b>Function:</b>	The Peripheral Data Set Definition Block (\$PDDDB) contains or points to all characteristics, known at the time of creation of the PDDDB, of each sybssystem data set known to JES2. PDDDBs are contained in the Input/Output Table (\$IOT), which is a spool resident JES2 job control block. There is a PDDDB 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 PDDDBs will be created.

## \$PDDDB mapping

Table 89. Structure PDB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PDB	HASP PDDDB 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 PDDDB
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	PDBDNODE	Node number (binary)
22	(16)	SIGNED	2	PDBDRMT	Remote number (binary)
24	(18)	CHARACTER	8	PDBUSER(0)	Dataset dest USERID/rmtid
32	(20)	BITSTRING	1		Reserved for future use
PDDDB version number Version 0 - Old style PDDDB of length PDBLEN1 Version 1 - Newer style PDDDB of length PDBLENM					
33	(21)	BITSTRING	1	PDBVER	PDDDB Version number - default is version 1
33	(21)	X'0'	0	PDBVER0	"0" Small size PDDDB
33	(21)	X'1'	0	PDBVER1	"1" Larger size PDDDB
34	(22)	BITSTRING	1	PDBFLAG2	Second flag byte



Table 89. Structure PDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
35	(23)	BITSTRING	1	PDBCPTN	Compaction table number
36	(24)	SIGNED	4	PDBRECCCT	Data set record count
40	(28)	SIGNED	4	PDBPGCT	Page data page count
44	(2C)	SIGNED	4	PDBBYTCT	Actual byte count
48	(30)	CHARACTER	8	PDBFORMS(0)	Eight-byte forms number
48	(30)	X'30'	0	PDBLOGDD	"PDBFORMS,8,C'C'" DD name of logging dataset (see PDBYLOG)
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
THE FOLLOWING FIELDS MUST BE KEPT TOGETHER FOR SJF UPDATE					
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
END OF THE FIELDS NEEDED FOR SJF UPDATE					
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)	BITSTRING	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	PDBFLAGY	Symbol substitution flags for DD * and DD DATA
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
WHEN USED AS A SPIN PDDB					
144	(90)	ADDRESS	4	PDBPLIOT	Pointer to normal IOT place holder
148	(94)	SIGNED	4	PDBPLOFF	The offset to related PDDB
WHEN USED AS A PLACE HOLDER PDDB					
144	(90)	SIGNED	4	PDBSPTR	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



Table 89. Structure PDB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
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
All PDDb flags should be cleared on return from exit 47 in module HASPNSR.					
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	1	PDBSTPN	Job step number where SYSOUT data set allocated
313	(139)	BITSTRING	1	PDBFLAGA	Tenth flag byte
314	(13A)	SIGNED	2		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	PBDSINS	Multi-dest instance count
324	(144)	SIGNED	4		Reserved for future use
328	(148)	BITSTRING	6	PDBINDXM	MQTR of 1st data set index
334	(14E)	BITSTRING	6	PDBCATLM	MQTR of data set catalog
340	(154)	CHARACTER	44	PBDBSNAM(0)	Data set name
384	(180)	SIGNED	4	(0)	
384	(180)	X'180'	0	PDBLEN1	"*-PDB" Base PDDb length (should never change)
PDDb version 1 extension					
384	(180)	BITSTRING	6	PDBMQTR	Starting track address of data set (MQTR)
390	(186)	BITSTRING	6	PDBMQTRL	Last track address of DS (MQTR)
396	(18C)	BITSTRING	6	PDBSPQTR	MQTR of spin IOT
402	(192)	BITSTRING	6	PDBNDQTR	MQTR of dataset header
408	(198)	BITSTRING	6	PDBSWBQT	MQTR Starting trk outp SWBs
414	(19E)	BITSTRING	6	PBBDLQTR	MQTR of data set LVL info
420	(1A4)	SIGNED	4	PDBUSER1	User field #1
424	(1A8)	SIGNED	4	PDBUSER2	User field #2
428	(1AC)	BITSTRING	1	PDBFLAGB	The eleventh flag byte
429	(1AD)	BITSTRING	51		Reserved for future use



Table 89. Structure PDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
480	(1E0)	SIGNED	4	(0)	
480	(1E0)	X'1E0'	0	PDBLENM	"*-PDB" Maximum PDDB length (can change rel to rel)
PDBFLAG1					
	1... ..			PDB1NEWS	"B'10000000'" JESNEWS DATA SET
	.1.. ..			PDB1NULL	"B'01000000'" THIS IS A NULL PDDB
	..1. ..			PDB1LOG	"B'00100000'" THIS PDDB IS FOR THE HASP JOB LOG
	...1 ...			PDB1MOC	"B'00010000'" Multiple Output Characteristic(MOC) Spin data set indicator
	.... 1..			PDB1NSOT	"B'00001000'" DATA SET IS NOT FOR SYSOUT
	.... .1..			PDB1SPIN	"B'00000100'" THIS PDDB IS FOR A SPIN DATA SET
	.... ..1.			PDB1USER	"B'00000010'" This PDDB is for a user
	.... ...1			PDB1DAUG	"B'00000001'" This is a daughter spin IOT
PDBFLAG2					
	1... ..			PDB2TCEL	"B'10000000'" DATA SET IS TRAKCELL'ED
	.1.. ..			PDB2OPTJ	"B'01000000'" OPTCD=J SPECIFIED
	..1. ..			PDB2BRST	"B'00100000'" BURST=YES SPECIFIED
	...1 ...			PDB2PRI0	"B'00010000'" Installation set JOE prio. Or dataset re-loaded.
	.... 1..			PDB2JFMS	"B'00001000'" PDBFORMS SET FROM JCTFORMS
	.... .1..			PDB2HLDS	"B'00000100'" HOLD= SPECIFIED ON DD
	.... ..1.			PDB2PSOR	"B'00000010'" PSO ROUTE CHANGE
	.... ...1			PDB2FOLD	"B'00000001'" JFCFOLD WAS SPECIFIED
PDBFLAG3					
	1... ..			PDB3PLHD	"B'10000000'" PLACE HOLDER PDDB
	.1.. ..			PDB3PSOC	"B'01000000'" PSO CLASS CHANGE
	..1. ..			PDBLNCTF	"B'00100000'" LINECT SPECIFIED
	...1 ...			PDB3STAT	"B'00010000'" JOB STATISTICS IN JOB LOG
	.... 1..			PDB3LINE	"B'00001000'" DATA SET HAS LINE MODE RECORDS
	.... .1..			PDB3PAGE	"B'00000100'" DATA SET HAS PAGE DATA RECORDS
	.... ..1.			PDB3SP2	"B'00000010'" FORCED DOUBLE SPACING
	.... ...1			PDB3SP1	"B'00000001'" FORCED SINGLE SPACING
PDBFLAG4					
	1... ..			PDB4OUTJ	"B'10000000'" PDDB IS REFERENCE BY OUTPUT JCL
	.1.. ..			PDB4BRST	"B'01000000'" BURST (Y OR N) IN DD CARD



Table 89. Structure PDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1. ....		PDB4JFCB	"B'00100000'" MERGE JFCB INTO THIS Pddb
		...1 ....		PDB4SYSN	"B'00010000'" SYSTEM GENERATED NAME
		.... 1...		PDB4OCLS	"B'00001000'" CLASS SET FROM OUTPUT JCL
		.... .1..		PDB4OCPY	"B'00000100'" COPY SET FROM OUTPUT JCL
		.... ..1.		PDBPLNUL	"B'00000010'" NULLIFIED PLACEHOLDER Pddb
		.... ...1		PDB4SDBT	"B'00000001'" FORCE SDB TO TRACKCELL
PDBFLAG5					
		1... ....		PDB5OPEN	"B'10000000'" DATASET IS OPEN FOR OUTPUT
		.1.. ....		PDB5NUNK	"B'01000000'" Token is NJE unknown user
		..1. ....		PDB5SPAU	"B'00100000'" DATA SET FAILED SPOOL OFFLOAD AUTHORIZATION
		...1 ....		PDB5PTKN	"B'00010000'" Token to be propagated
		.... 1...		PDB5AODS	"B'00001000'" Use abnormal disp for spin
		.... .1..		PDB5XBM2	"B'00000100'" Data set is SYSIN for XBM/2
		.... ..1.		PDB5PRGA	"B'00000010'" \$PURGE auth check required
		.... ...1		PDB5SAFD	"B'00000001'" \$PURGE auth check footprint
PDBFLAG6					
		..1. ....		PDB6AOSO	"B'00100000'" ABNORMAL OUTDISP SPECIFIED ON OUTPUT JCL STATEMENT
480	(1E0)	X'10'	0	PDB6AODP	"\$ODPURGE" ABNORMAL OUTDISP=PURGE
480	(1E0)	X'8'	0	PDB6AODW	"\$ODWRITE" ABNORMAL OUTDISP=WRITE
480	(1E0)	X'4'	0	PDB6AODH	"\$ODHOLD" ABNORMAL OUTDISP=HOLD
480	(1E0)	X'2'	0	PDB6AODK	"\$ODKEEP" ABNORMAL OUTDISP=KEEP
480	(1E0)	X'1'	0	PDB6AODL	"\$ODLEAVE" ABNORMAL OUTDISP=LEAVE
480	(1E0)	X'1F'	0	PDB6AODA	"\$ODANYWP" CHECK ALL BIT SETTINGS
PDBFLAG7					
		1... ....		PDB7DSWB	"B'10000000'" OUTPUT SWB to be deleted
		.1.. ....		PDB7HOPX	"B'01000000'" SYSTEM HOLD DATASET DUE TO HOP COUNT EXCESSION
		..1. ....		PDB7NOSO	"B'00100000'" NORMAL OUTDISP SPECIFIED ON OUTPUT JCL STATEMENT
480	(1E0)	X'10'	0	PDB7NODP	"\$ODPURGE" NORMAL OUTDISP=PURGE
480	(1E0)	X'8'	0	PDB7NODW	"\$ODWRITE" NORMAL OUTDISP=WRITE
480	(1E0)	X'4'	0	PDB7NODH	"\$ODHOLD" NORMAL OUTDISP=HOLD
480	(1E0)	X'2'	0	PDB7NODK	"\$ODKEEP" NORMAL OUTDISP=KEEP
480	(1E0)	X'1'	0	PDB7NODL	"\$ODLEAVE" NORMAL OUTDISP=LEAVE
480	(1E0)	X'1F'	0	PDB7NODA	"\$ODANYWP" CHECK ALL BIT SETTINGS



Table 89. Structure PDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
PDBFLAG8					
	1... ..			PDB8DSID	"B'10000000" DSID IN PDBDSID
	.1.. ..			PDB8FORM	"B'01000000" FORM was explicitly coded either on the DD, OUTPUT JCL or inherited from JOBPARM FORM=
	..1. ....			PDB8UNDF	"B'00100000" Userid is undefined
	...1 ....			PDB8NREU	"B'00010000" THE SPIN IOT REPRESENTED BY THIS PLACE HOLDER PDDB IS NOT REUSABLE
	.... 1...			PDB8UPRI	"B'00001000" PRTY was specified on the OUTPUT JCL statement
	.... .1..			PDB8UNAL	"B'00000100" SYSOUT data set has been unallocated (not set for any special data sets)
	.... ..1.			PDB8SYIN	"B'00000010" SYSIN data set (from input services)
	.... ...1			PDB8RERT	"B'00000001" Dataset was rerouted by SYSOUT receiver
PDBFLAG9 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.					
	1... ..			PDB9IPAD	"B'10000000" Dataset's dest in IP-format
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.					
	.1.. ....			PDB9CTKN	"B'01000000" Client token returned for data set
	..1. ....			PDB9JESL	"B'00100000" SPIN-ANY spin data set
	...1 ....			PDB9SALC	"B'00010000" Separate track group map used to create data set
	.... 1...			PDB9TRC	"B'00001000" TRC was specified on the OUTPUT JCL statement
	.... .1..			PDB9CRTM	"B'00000100" PDBCRTME is from JOE (spool reload)
	.... ..1.			PDB9ONOT	"B'00000010" Issue NOTIFY from HOPE
	.... ...1			PDB9INDX	"B'00000001" Data set is indexed
PDBFLAGA					
	1... ..			PDBARCNP	"B'10000000" Received this data set as non-printable SYSOUT that should transmit via NJE
	.1.. ....			PDBAVDS	"B'01000000" Volatile dataset (data can be appended)
	..1. ....			PDBAENCR	"B'00100000" Contained dataset is encrypted
	...1 ....			PDBACOMP	"B'00010000" Contained dataset is compressed
	.... 1...			PDBAADVF	"B'00001000" Advanced format HDBs in use



Table 89. Structure PDB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... .1..		PDBADATT	"B'00000100'" HDBs contain data block areas (data block prefix)
		PDBFLAGB			
		1... ....		PDBBXMTD	"B'10000000'" Data set represents an XMIT (two job card stream) with a delimiter specified
		PDBFLAGY PDBFLAGY flag byte is used to control instream symbol substitution. PDBYCTL defines the substitution control bits. PDBYJCL/PDBYEXEC/PDBYCNVT should be compared for equality, not as individual bits.			
		111. ....		PDBYCTL	"B'11100000'" Substitution type: 000 - no substitution
		..1. ....		PDBYJCL	"B'00100000'" SYMBOLS=JCLONLY
		.1.. ....		PDBYEXEC	"B'01000000'" SYMBOLS=EXECSYS
		.11. ....		PDBYCNVT	"B'01100000'" SYMBOLS=CNVTSYS
		...1 ....		PDBYLOG	"B'00010000'" substitution logging requested
		DATA SET KEYS FOR SPECIAL DATA SETS			
480	(1E0)	X'1'	0	PDBINJCL	"1" INPUT JCL STATEMENTS
480	(1E0)	X'2'	0	PDBOUHJL	"2" HASP JOB LOG
480	(1E0)	X'3'	0	PDBOUJCI	"3" JCL IMAGES
480	(1E0)	X'4'	0	PDBOUMSG	"4" SYSTEM MESSAGES
480	(1E0)	X'5'	0	PDBINTXT	"5" INTERNAL TEXT
480	(1E0)	X'6'	0	PDBINJNL	"6" JOB JOURNAL
480	(1E0)	X'7'	0	PDBSWABL	"7" SWA blocks
480	(1E0)	X'8'	0	PDBEVTLG	"8" EVENTLOG
480	(1E0)	X'64'	0	PDBUISKY	"100" INITIAL DATA SET KEY NUMBER

Table 90. Cross Reference for \$PDDB

Name	Offset	Hex Tag
PDB	0	
PDBAADVF	1E0	8
PDBACOMP	1E0	10
PDBADATT	1E0	4
PDBAENCR	1E0	20
PDBARCNP	1E0	80
PDBAVDS	1E0	40
PDBBXMTD	1E0	80
PDBBYTCT	2C	0
PDBCATLM	14E	0
PDBCHAR1	50	5C5C5C5C
PDBCHAR2	54	5C5C5C5C



Table 90. Cross Reference for \$PDDB (continued)

Name	Offset	Hex Tag
PDBCHAR3	58	5C5C5C5C
PDBCHAR4	5C	5C5C5C5C
PDBCKPTL	74	FFFF
PDBCKPTP	72	FFFF
PDBCLASS	12	C1
PDBCOPYG	6A	0
PDBCOPYS	13	
PDBCPTN	23	FF
PDBCPTNM	130	0
PDBCRTME	84	0
PBCRUID	10C	40404040
PBDDNAM	AC	40404040
PBDEST	14	
PBDLQTR	19E	0
PBDNODE	14	0
PBDRMT	16	0
PBDSID	40	40404040
PBDSINS	142	0
PBDSKEY	C	0
PBDSNAM	154	40404040
PBEVTLG	1E0	8
PBFCEB	38	5C5C5C5C
PBFLAGA	139	0
PBFLAGB	1AC	0
PBFLAGY	77	0
PBFLAG1	0	40
PBFLAG2	22	0
PBFLAG3	76	0
PBFLAG4	120	0
PBFLAG5	121	0
PBFLAG6	122	0
PBFLAG7	123	0
PBFLAG8	140	0
PBFLAG9	141	0
PBFLASH	60	5C5C5C5C
PBFLSHC	68	FF
PBFORMS	30	0
PBFUNC	11E	0
PBGGTOK	8C	0



Table 90. Cross Reference for \$PDDB (continued)

Name	Offset	Hex Tag
PDBID	78	0
PDBINDEX	11D	0
PDBINDXM	148	0
PDBINJCL	1E0	1
PDBINJNL	1E0	6
PDBINTXT	1E0	5
PDBLENM	1E0	1E0
PDBLEN1	180	180
PDBLINCT	11C	0
PDBLNCTF	1E0	20
PDBLOGDD	30	30
PDBLRECL	2	0
PDBMODF	64	5C5C5C5C
PDBMODFT	69	0
PDBMQTR	180	0
PDBMQTRL	186	0
PDBMTTR	4	0
PDBMTTRL	8	0
PDBNAME	7A	0
PDBNDHTR	13C	0
PDBNDQTR	192	0
PDBOUHJL	1E0	2
PDBOUJCI	1E0	3
PDBOUMSG	1E0	4
PDBOUTOK	128	0
PDBPGCT	28	0
PDBPLIOT	90	
PDBPLNUL	1E0	2
PDBPLOFF	94	0
PDBPNAME	9C	40404040
PDBPRIO	11F	0
PDBPRMD	B4	40404040
PDBRBA	48	0
PDBRECCT	24	0
PDBRECFM	1	0
PDBSECLB	114	40404040
PDBSEGID	88	0
PDBSIZE	10	
PDBSNAME	A4	40404040



Table 90. Cross Reference for \$PDDb (continued)

Name	Offset	Hex Tag
PDBSPQTR	18C	0
PDBSPTTR	90	0
PDBSSOFM	98	0
PDBSTPN	138	0
PDBSWABL	1E0	7
PDBSWBOT	124	0
PDBSWBQT	198	0
PDBTOKEN	BC	0
PDBUCS	3C	5C5C5C5C
PDBUISKY	1E0	64
PDBUSER	18	0
PDBUSER1	1A4	0
PDBUSER2	1A8	0
PDBVER	21	1
PDBVER0	21	0
PDBVER1	21	1
PDBWTRID	40	40
PDBYCNVT	1E0	60
PDBYEXEC	1E0	40
PDBYJCL	1E0	20
PDBYLOG	1E0	10
PDBYSCTL	1E0	E0
PDB1DAUG	1E0	1
PDB1LOG	1E0	20
PDB1MOC	1E0	10
PDB1NEWS	1E0	80
PDB1NSOT	1E0	8
PDB1NULL	1E0	40
PDB1SPIN	1E0	4
PDB1USER	1E0	2
PDB2BRST	1E0	20
PDB2FOLD	1E0	1
PDB2HLDS	1E0	4
PDB2JFMS	1E0	8
PDB2OPTJ	1E0	40
PDB2PRIO	1E0	10
PDB2PSOR	1E0	2
PDB2TCEL	1E0	80
PDB3LINE	1E0	8



Table 90. Cross Reference for \$PDDB (continued)

Name	Offset	Hex Tag
PDB3PAGE	1E0	4
PDB3PLHD	1E0	80
PDB3PSOC	1E0	40
PDB3SP1	1E0	1
PDB3SP2	1E0	2
PDB3STAT	1E0	10
PDB4BRST	1E0	40
PDB4JFCB	1E0	20
PDB40CLS	1E0	8
PDB40CPY	1E0	4
PDB40UTJ	1E0	80
PDB4SDBT	1E0	1
PDB4SYSN	1E0	10
PDB5A0DS	1E0	8
PDB5NUNK	1E0	40
PDB50PEN	1E0	80
PDB5PRGA	1E0	2
PDB5PTKN	1E0	10
PDB5SAFD	1E0	1
PDB5SPAU	1E0	20
PDB5XBM2	1E0	4
PDB6A0DA	1E0	1F
PDB6A0DH	1E0	4
PDB6A0DK	1E0	2
PDB6A0DL	1E0	1
PDB6A0DP	1E0	10
PDB6A0DW	1E0	8
PDB6A0S0	1E0	20
PDB7DSWB	1E0	80
PDB7H0PX	1E0	40
PDB7N0DA	1E0	1F
PDB7N0DH	1E0	4
PDB7N0DK	1E0	2
PDB7N0DL	1E0	1
PDB7N0DP	1E0	10
PDB7N0DW	1E0	8
PDB7N0S0	1E0	20
PDB8DSID	1E0	80
PDB8FORM	1E0	40



Table 90. Cross Reference for \$PDDB (continued)

Name	Offset	Hex Tag
PDB8NREU	1E0	10
PDB8RERT	1E0	1
PDB8SYIN	1E0	2
PDB8UNAL	1E0	4
PDB8UNDF	1E0	20
PDB8UPRI	1E0	8
PDB9CRTM	1E0	4
PDB9CTKN	1E0	40
PDB9INDX	1E0	1
PDB9IPAD	1E0	80
PDB9JESL	1E0	20
PDB9ONOT	1E0	2
PDB9SALC	1E0	10
PDB9TRC	1E0	8

## \$PERFCB information

### \$PERFCB heading information

<b>Common name:</b>	Performance data anchor CB
<b>Macro ID:</b>	\$PERFCB
<b>DSECT name:</b>	PERFCB INITSTAT QSUCB PPB PTPB WTCB PSCBD EVENT PCBACKIO PCBSBST PMIG PCBQGST PCBMAS PCBXREQ
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	PCB Offset: PCBID Length: L'PCBID
<b>Storage attributes:</b>	Subpool: 24 (Except PPB which are subpool 25, and EVENT which are subpool 230) Key: 1 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.



<b>Size:</b>	See PCBLLEN for PERFCB L'INITRENT for INITSTAT QSUCBLEN for QSUCB PPBLEN for PPB PTPBLEN for PTPB WTCBLEN for WTCB PSCBLEN for PSCBD EVNTLEN for EVENT PCBCKIOL for PCBCKIO PCBSBSTL for PCBSBST PMIGLEN for PMIG PCBQGSTL for PCBQGST PCBQGSLN for PCBMAST PCBXQLEN for PCBXREQ
<b>Created by:</b>	HASPIRA for the PCB, INITSTAT, PCBMAS, and PCBXREQ HASPDYN for the PPB and PTPB HASPNUC for the QSUCB, WTCB, PSCB and EVENT HASPSUBS for the PCBSBST HASPSPOL for the PMIG HASPEVTL for the PCBQGST
<b>Pointed to by:</b>	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 EVENT - PCBEVNTF field of the PERFCB data area - PCBEVNTL field of the PERFCB data area - EVNTNEXT field of the EVENT data area PCBSBST - PCBSBQUE field of the PERFCB data area PMIG - PCBMIGR field of the PERFCB data area PCBQGST - PCBQGQUE field of the PERFCB data area PCBMAS - PCBCKMAS field of the PERFCB data area PCBXREQ - PCBXMSGa field of the PERFCB data area
<b>Serialization:</b>	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 mapping

Table 91. Structure PERFCB

Offset Dec	Offset Hex	Type	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'2'	0	PCBVERN	"2" Version number
5	(5)	BITSTRING	3		Reserved
8	(8)	DBL WORD	8	PCBWORK	Double word work area
<p>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.</p>					
16	(10)	ADDRESS	4	PCBINITS	Pointer to the init stats

Table 92. Structure INITSTAT

Offset Dec	Offset Hex	Type	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'0'	0	INITRENT	"INITSTAT,*-INITSTAT" Equate for entire entry

Table 93. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
<p>\$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 a hashed address where the \$QSUSE was invoked. PCBQSUHC is another chain through the same control blocks, sorted with the most frequently used \$QSUSE entries first.</p>					
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		Reserved
160	(A0)		1	PCBQSLRS	STCKE time at last reset
176	(B0)	DBL WORD	8	PCBQSINT	Interval since reset (microseconds)
184	(B8)	SIGNED	8	PCBQSPAT	Pain rate accumulator



Table 94. Structure QSUCB

Offset Dec	Offset Hex	Type	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
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)	SIGNED	4	QSUCBPLT(0)	Copy of \$QSUSE parmlist:
40	(28)	BITSTRING	4	QSUCBPIN	(Instruction after BASR)
44	(2C)	BITSTRING	1	QSUCBPFL	\$QSUSE parameter flag -see \$PARMLST/ \$QSUFLG1
45	(2D)	BITSTRING	1		Reserved for future use
46	(2E)	CHARACTER	8	QSUCBPSC	Control section name
54	(36)	CHARACTER	8	QSUCBPSQ	Invoking seq number
62	(3E)	BITSTRING	1	QSUCBXIT	Exit number in control
63	(3F)	BITSTRING	1		Reserved for future use
64	(40)	SIGNED	8	QSUCBPAI	Cumulative PAIN
72	(48)	SIGNED	4	QSUCBPAA	Average PAIN
76	(4C)	SIGNED	4		Reserved
80	(50)	DBL WORD	8	(0)	Alignment
80	(50)	X'50'	0	QSUCBLEN	"*-QSUCB" Length of element

Table 95. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
<p>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.</p>					
192	(C0)	DBL WORD	8	PCBCPULD	CPU time of last dispatch
200	(C8)		1	PCBRUNLD	STCKE time of last dispatch
216	(D8)	DBL WORD	8	PCBCPULW	CPU time of last \$WAIT
224	(E0)		1	PCBRUNLW	STCKE time of last \$WAIT
240	(F0)	DBL WORD	8	PCBLSTRS	CPU time at last reset
248	(F8)		1	PCBLSTRT	STCKE time at last reset
264	(108)	DBL WORD	8	PCBRSTIS	CPU reset interval (micro)
272	(110)	DBL WORD	8	PCBRSTIT	STCK reset interval (micro)
280	(118)	ADDRESS	4	PCBPTPB	PTPB chain pointer



Table 95. Structure PERFCB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
284	(11C)	ADDRESS	4	PCBPTPBS	Sorted chain anchor
288	(120)	BITSTRING	2	PCBPCEID	PCEID of last disp PCE
290	(122)	BITSTRING	2		Reserved
292	(124)	CHARACTER	8	PCBPCNAM	PCE name of last disp PCE
300	(12C)	SIGNED	4		Reserved
304	(130)	SIGNED	8	PCBCUMPIN	Cumulative PCE pain

Table 96. Structure PPB

Offset Dec	Offset Hex	Type	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
<p>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.</p>					
6	(6)	BITSTRING	2	PPBLPOST	Last post type (valid only when PCE is on the ready Q)
6	(6)	X'0'	0	PPBLPRES	"0" Resource post (Must be 0)
6	(6)	X'1'	0	PPBLPEVN	"1" Event post (Must be 1)
6	(6)	X'2'	0	PPBLPXECC	"2" XECB post
6	(6)	X'3'	0	PPBLPSSI	"3" \$\$POST of a event
6	(6)	X'4'	0	PPBLPSUB	"4" \$POST from a subtask
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	PPBPAWCT	Num of \$PAWSs for this PCE
60	(3C)	SIGNED	4		Reserved
64	(40)	SIGNED	4		Reserved
72	(48)	DBL WORD	8	(0)	Ensure alignment
72	(48)	X'48'	0	PPBLEN	"*-PPB" Length of control block

Table 97. Structure PERFCB

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



Table 98. Structure GTPTDAT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	GTPTDAT	GETPTIME output area DSECT
0	(0)	DBL WORD	8	GTPTCPUT	CPU time for PCE (microsec)
8	(8)	DBL WORD	8	GTPTRUNT	Run time for PCE (microsec)
16	(10)	DBL WORD	8	GTPTQSUS	QSUSE run time for PCE (microsec)
24	(18)	DBL WORD	8	GTPTSTCK	Time GETPTIME was called (TOD units)
24	(18)	X'20'	0	GTPTLEN	"*-GTPTDAT" Length of output area

Table 99. Structure PERFCB

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

Table 100. Structure PTPB

Offset Dec	Offset Hex	Type	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	PTPBTAB	Address of PCETAB
16	(10)	SIGNED	4	PTPBIOCT	I/O count for PCE type
20	(14)	SIGNED	4	PTPBDISP	Dispatch count for all PCEs
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	PTPBWTCB	Chain of \$WAIT CBs
52	(34)	SIGNED	4	PTPBCKPT	Num of \$CKPTs for all PCEs
56	(38)	SIGNED	4	PTPBPAWC	Num of \$PAWSS for all PCEs
60	(3C)	SIGNED	4	PTPBJOB	Job count
64	(40)	SIGNED	4	PTPBPRCC	Objects processed count
68	(44)	SIGNED	2	PTPBNUMB	Number of PCE of type
70	(46)	SIGNED	2		Reserved
72	(48)	SIGNED	8	PTPBPAID	Cumulative PAIN rate
80	(50)	DBL WORD	8	(0)	Ensure alignment
80	(50)	X'50'	0	PTPBLEN	"*-PTPB" Length of control block

Table 101. Structure PERFCB

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

Table 102. Structure WTCB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	WTCB	, Wait performance block
0	(0)	CHARACTER	4	WTCBID	Eyecatcher
4	(4)	ADDRESS	4	WTCBNEXT	Pointer to next WTCB



Table 102. Structure WTCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	DBL WORD	8	WTCBINFO(0)	Wait address information
8	(8)	ADDRESS	4	WTCBADR	Address of \$WAIT parmlst
12	(C)	ADDRESS	4	WTCBADR2	2ndary parmlst 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	WTCBPLST(0)	Copy of \$WAIT parmlst:
32	(20)	BITSTRING	4	WTCBPINS	(Instruction after BASR)
36	(24)	BITSTRING	1	WTCBPFL1	\$WAIT macro option flags -see \$PARMLST/\$WTFLAG1
37	(25)	BITSTRING	1	WTCBPINH	Inhibitor: prevs PCE redispach before specific \$POST
38	(26)	CHARACTER	8	WTCBPSEC	Control section name
46	(2E)	CHARACTER	8	WTCBPSEQ	Invoking seq number
54	(36)	ADDRESS	2	WTCBPRQ0	Resource queue offset/0
56	(38)	SIGNED	4	WTCB2PLT(0)	Copy of 2ndary parmlst:
56	(38)	CHARACTER	8	WTCB2SEC	Control section name
64	(40)	CHARACTER	8	WTCB2SEQ	Invoking seq number
72	(48)	ADDRESS	4	WTCB2PLA	Addr of copy of 2ndary parmlst
76	(4C)	BITSTRING	1	WTCBXIT	Exit number for wait
77	(4D)	BITSTRING	3		Reserved for future use
80	(50)	DBL WORD	8	(0)	Alignment
80	(50)	X'50'	0	WTCBLEN	"*-WTCB" Length of control block
80	(50)	X'10'	0	WTCB2PLL	"L'WTCB2SEC+L'WTCB2SEQ" Len of 2ndary parmlst

Table 103. Structure PERFCB

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

Table 104. Structure PSCBD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PSCBD	, \$POST performance block
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

Table 105. Structure PERFCB

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



Table 105. Structure PERFCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
312	(138)	BITSTRING	24		Reserved
<p>Event reporting information. Every time an noteworthy 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.</p> <p>Event control blocks are created in private storage in storage pool 230 in key 1, as there are main and subtask users, and key 0 and key 1 callers. CPOOL services are used to allocate and free EVENTS.</p>					
336	(150)		1	PCBEVNTX(0)	Cumulative area to clear
336	(150)	ADDRESS	4	PCBEVNTF	1st event control block
340	(154)	ADDRESS	4	PCBEVNTL	Last (newest) event CB
344	(158)	SIGNED	4	PCBEVCNT	Count of exception CBs
348	(15C)	SIGNED	4		Reserved
348	(15C)	X'64'	0	PCBEVNLM	"100" Limit of events tracked
352	(160)		1	PCBEVLRS	STCKE time at last reset
368	(170)	DBL WORD	8	PCBEVINT	STCK reset interval (micro)

Table 106. Structure EVENT

Offset Dec	Offset Hex	Type	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
56	(38)	X'4'	0	EVNTLIMT	"4" HASPLIM Subtask
57	(39)	BITSTRING	1	EVNTXIT	Current exit number
58	(3A)	BITSTRING	1	EVNTFLG1	EVENT flag byte 1
		1... ....		EVNT1DEL	"B'10000000'" use DELTA= keyword
		.1.. ....		EVNT1CNT	"B'01000000'" use COUNT= keyword
59	(3B)	BITSTRING	1		Reserved
60	(3C)	CHARACTER	8	EVNTDATA	Additional data
68	(44)	ADDRESS	4	EVNTPCE	PCE address
72	(48)	SIGNED	4	EVNTDELT	HASPLIM CPU Delta or Count of instances, depending on EVNTFLG1
80	(50)	DBL WORD	8	(0)	Alignment
80	(50)	X'50'	0	EVNTLEN	"*-EVENT" Length of control block



Table 107. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
CKPT reporting information.					
376	(178)		1	PCBCKLRS	STCKE time at last reset
392	(188)	DBL WORD	8	PCBCKINT	STCK reset interval (micro)
400	(190)	DBL WORD	8	PCBCKTHL	Total hold time (STCK)
408	(198)	DBL WORD	8	PCBCKAHL	Average hold time (micro)
416	(1A0)	SIGNED	4	PCBCKCHL	Hold time count
420	(1A4)	SIGNED	4	PCBCKOVH	Average amount CKPT is held past HOLD time (Microseconds)
424	(1A8)	SIGNED	4	PCBCKOVC	Count of consecutive over hold averages
428	(1AC)	SIGNED	4	PCBCKCDR	Dormancy time count
432	(1B0)	DBL WORD	8	PCBCKTDR	Total dormancy time (STCK)
440	(1B8)	DBL WORD	8	PCBCKADR	Avg dormancy time (micro)
448	(1C0)	SIGNED	4	PCBCKCNT	\$CKPT count
452	(1C4)	SIGNED	4	PCBCKSKP	Skipped \$CKPTs
456	(1C8)	SIGNED	4	PCBCKOCK	\$CKPT optimization count
460	(1CC)	SIGNED	4	PCBCKO4K	4K page optimization count
464	(1D0)	SIGNED	4	PCBCK4KC	Count of 4K pages written (in IW and FW)
468	(1D4)	SIGNED	4	PCBCKCBC	Count of control blocks written (in IW and FW)
472	(1D8)	SIGNED	4		Reserved
476	(1DC)	SIGNED	4	PCBCKNAD	Nr of adjustments
480	(1E0)	DBL WORD	8	PCBCKTPN	Total pain value
480	(1E0)	X'1E4'	0	PCBCKTP1	"PCBCKTPN+4,4" 32-bit subset
488	(1E8)	DBL WORD	8	PCBCKTPM	Total pain value for this member
488	(1E8)	X'1EC'	0	PCBCKTP2	"PCBCKTPM+4,4" 32-bit subset
496	(1F0)	SIGNED	4	PCBCKHHI	Highest HOLD set
500	(1F4)	SIGNED	4	PCBCKHLO	Lowest HOLD set
504	(1F8)	SIGNED	4	PCBCKDHI	Highest DORMANCY
508	(1FC)	SIGNED	4	PCBCKDLO	Lowest DORMANCY
512	(200)	DBL WORD	8	PCBCKQDF	Difference between HOLD and longest QSUSE time (in microseconds)
520	(208)	DBL WORD	8	PCBCKQDA	Average difference (in microseconds)
528	(210)	DBL WORD	8	PCBCKPMD	Pain multiplication total
536	(218)	SIGNED	4	PCBCKPMA	and average
540	(21C)	SIGNED	4	PCBCKPMC	Count of pain samples

Table 108. Structure PCBCKIO

Offset Dec	Offset Hex	Type	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)



Table 108. Structure PCBCKIO (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
24	(18)	DBL WORD	8	PCBCKIO4	Total 4K page count
32	(20)	DBL WORD	8	PCBCKIOB	Total CB count
40	(28)	DBL WORD	8	PCBCKIST_CPU	Total subtask CPU (micro)
48	(30)	DBL WORD	8	PCBCKIST_ACPU	Average subtask CPU
56	(38)	DBL WORD	8	PCBCKIST_TIM	Total subtask time (micro)
64	(40)	DBL WORD	8	PCBCKIST_ATIM	Average subtask time
72	(48)	DBL WORD	8	PCBCKIST_IOS	Total subtask I/Os
80	(50)	DBL WORD	8	PCBCKIST_AIOS	Average subtask I/Os
88	(58)	DBL WORD	8	PCBCKIST_REC	Total subtask records
96	(60)	DBL WORD	8	PCBCKIST_AREC	Average subtask records
96	(60)	X'68'	0	PCBCKIOL	"*-PCBCKIO" Length of area

Table 109. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
544	(220)	DBL WORD	8	(0)	Align I/O data areas
544	(220)	BITSTRING	104	PCBCKR1	Data area for read 1
648	(288)	BITSTRING	104	PCBCKR2	Data area for read 2
752	(2F0)	BITSTRING	104	PCBCKPW	Data area for Primary Write
856	(358)	BITSTRING	104	PCBCKIW	Data area for Intermediate
960	(3C0)	BITSTRING	104	PCBCKFW	Data area for Final Write
1064	(428)	BITSTRING	1	PCBCKFMT	Data area for formats
1064	(428)	X'6'	0	PCBCKIO#	"(*-PCBCKR1)/PCBCKIOL" Number of I/O entries

General subtask statistics.

1168	(490)		1	PCBSBLRS	STCKE time at last reset
1184	(4A0)	DBL WORD	8	PCBSBINT	STCK reset interval (micro)
1192	(4A8)	ADDRESS	4	PCBSBQUE	Queue of subtask statistics
1196	(4AC)	SIGNED	4		Reserved

Table 110. Structure PCBSBST

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCBSBST	
0	(0)	CHARACTER	4	PCBSBID	Eyecatcher
4	(4)	CHARACTER	8	PCBSBNAM	Routine name
12	(C)	ADDRESS	4	PCBSBNXT	Chain field
16	(10)	SIGNED	4	PCBSBCNT	Count of requests
20	(14)	SIGNED	4		Reserved
24	(18)	DBL WORD	8	PCBSBQTM	Total queue time (micro)
32	(20)	DBL WORD	8	PCBSBQTA	Average queue time (micro)
40	(28)	DBL WORD	8	PCBSBRTM	Total run time (micro)
48	(30)	DBL WORD	8	PCBSBRTA	Average run time (micro)
56	(38)	DBL WORD	8	PCBSBCTM	Total CPU time (micro)
64	(40)	DBL WORD	8	PCBSBCTA	Average CPU time (micro)



Table 110. Structure PCBSBST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
64	(40)	X'48'	0	PCBSBSTL	"*-PCBSBST" Length of area

Table 111. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
Device gatherer performance information.					
1200	(4B0)		1	PCBDGLRS	STCKE time at last reset
1216	(4C0)	DBL WORD	8	PCBDGINT	STCK reset interval (micro)
1224	(4C8)	SIGNED	4	PCBDGSYN	SYNCH count
1228	(4CC)	SIGNED	4	PCBDGUPS	Updates sent count
1232	(4D0)	SIGNED	4	PCBDGUPR	Updates received count
1236	(4D4)	SIGNED	4	PCBDGNTS	NITs sent
1240	(4D8)	SIGNED	4	PCBDGNTB	NIT broadcasts
1244	(4DC)	SIGNED	4	PCBDGCNR	CNIT updates received
1248	(4E0)	SIGNED	4	PCBDGCNU	CNITs updated
1252	(4E4)	SIGNED	4		Reserved
SP00L Migration performance information.					
1256	(4E8)	ADDRESS	4	PCBMIGR	Newest migration CB

Table 112. Structure PMIG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PMIG	, Migration information
0	(0)	CHARACTER	4	PMIGID	Eyecatcher
4	(4)	ADDRESS	4	PMIGNEXT	Next migration
8	(8)	CHARACTER	6	PMIGSORC	Source vol being migrated
14	(E)	CHARACTER	6	PMIGTARG	Target vol of migration
20	(14)	BITSTRING	1	PMIGFLG1	Flag byte
	1... ....			PMIG1MOV	"B'10000000'" Move migration
21	(15)	BITSTRING	3		Reserved
24	(18)	DBL WORD	8	PMIGSTRT	STCK time migration started
32	(20)	DBL WORD	8	PMIGINTT	Init phase time (micro)
40	(28)	DBL WORD	8	PMIGSETT	Setup phase time (micro)
48	(30)	DBL WORD	8	PMIGCPYT	Copy phase time (micro)
56	(38)	SIGNED	4	PMIGCPYC	Copy phase track count
60	(3C)	SIGNED	4	PMIGCPYM	Copy phase message count
64	(40)	DBL WORD	8	PMIGCUPT	Catchup phase time (micro)
72	(48)	SIGNED	4	PMIGCUPC	Catchup phase track count
76	(4C)	SIGNED	4	PMIGCUPM	Catchup phase message count
80	(50)	DBL WORD	8	PMIGCLNT	Cleanup phase time (micro)
88	(58)	DBL WORD	8	PMIGOVRT	Overall time for migration (micro)
96	(60)	DBL WORD	8	(0)	Alignment
96	(60)	X'60'	0	PMIGLEN	"*-PMIG" Length of control block



Table 113. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
Work selection performance information (WSSTAT)					
1260	(4EC)	SIGNED	4	PCB#PNUM	Number of calls to \$#POST
1264	(4F0)	DBL WORD	8	PCB#PCPU	\$#POST tot CPU time
1272	(4F8)	DBL WORD	8	PCB#PCAV	and average (micro)
Normal \$#GET work found					
1280	(500)	DBL WORD	8	PCB#GCPU	\$#GET tot CPU time
1288	(508)	DBL WORD	8	PCB#GCAV	and average (micro)
1296	(510)	SIGNED	4	PCB#GNUM	Number of \$#GETs that returned a JOE
Normal \$#GET no work found					
1300	(514)	SIGNED	4	PCB#GZNM	Number of \$#GETs that did not find work
1304	(518)	DBL WORD	8	PCB#GZCP	\$#GET tot CPU time
1312	(520)	DBL WORD	8	PCB#GZAV	and average (micro)
Fast path \$#GET work found					
1320	(528)	DBL WORD	8	PCB#GFCP	\$#GET tot CPU time
1328	(530)	DBL WORD	8	PCB#GFAV	and average (micro)
1336	(538)	SIGNED	4	PCB#GFPN	Number of fast path \$#GETs that found work
Fast path \$#GET no work found					
1340	(53C)	SIGNED	4	PCB#GFPZ	Number of fast path \$#GETs that did not find work
1344	(540)	DBL WORD	8	PCB#GFZC	\$#GET tot CPU time
1352	(548)	DBL WORD	8	PCB#GFZV	and average (micro)
Indexed \$#GET work found					
1360	(550)	DBL WORD	8	PCB#GXCP	\$#GET tot CPU time
1368	(558)	DBL WORD	8	PCB#GXAV	and average (micro)
1376	(560)	SIGNED	4	PCB#GXNM	Number of indexed \$#GETs that found work
Indexed \$#GET No work found					
1380	(564)	SIGNED	4	PCB#GXZN	Number of indexed \$#GETs that did not find work
1384	(568)	DBL WORD	8	PCB#GXZC	\$#GET tot CPU time
1392	(570)	DBL WORD	8	PCB#GXZV	and average (micro)
1400	(578)		1	PCB#WLRS	STCKE time at last reset
1416	(588)	DBL WORD	8	PCB#WINT	STCK reset interval (micro)
Policy performance information (PCYSTAT)					
1424	(590)	SIGNED	4	PCBPY#AP	Nr of calls to PCYAPPLY
1428	(594)	SIGNED	4	PCBPY#CM	Nr of conditions matched



Table 113. Structure PERFCB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1432	(598)	DBL WORD	8	PCBPYCPU	PCYAPPLY tot CPU time
1440	(5A0)	DBL WORD	8	PCBPYCAV	and average (micro)
1448	(5A8)	DBL WORD	8	PCBPYINT	STCK reset interval (micro)
1456	(5B0)		1	PCBPYLRS	STCKE time at last reset
1472	(5C0)	SIGNED	4	(4)	Reserved
1488	(5D0)	ADDRESS	4	PCBTEWA	Address of TEWA (Timed Event Work Area)
1492	(5D4)	SIGNED	4		Reserved
QGET performance information (QGET)					
1496	(5D8)		1	PCBQGLRS	STCKE time at last reset
1512	(5E8)	DBL WORD	8	PCBQGINT	STCK reset interval (micro)
1520	(5F0)	ADDRESS	4	PCBQGQUE	Queue of QGET statistics

Table 114. Structure PCBQGST

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCBQGST	
0	(0)	CHARACTER	4	PCBQGID	Eyecatcher
4	(4)	ADDRESS	4	PCBQGNXT	Address of next entry
8	(8)	CHARACTER	18	PCBQGTYP	QGET type
26	(1A)	BITSTRING	2		Reserved
28	(1C)	SIGNED	4	PCBQGCNT	Count of all QGET (skip display if zero)
Successful call statistics					
32	(20)	CHARACTER	4	PCBQGSID	Successful stats eyecatcher
36	(24)	SIGNED	4	PCBQGSUC	Count of successful calls
40	(28)	BITSTRING	1	PCBQGSFG	QGET type flags
	1... ....			PCBQFSIN	"B'10000000" Initiator selection
	.1.. ....			PCBQFSDV	"B'01000000" Device selection
	..1. ....			PCBQFSXD	"B'00100000" Max duplicate skip set
	...1 ....			PCBQFSXC	"B'00010000" Max CAT/WSCQ skip set
41	(29)	BITSTRING	7		Reserved
48	(30)	DBL WORD	8	PCBQGSCP	Total CPU time (micro)
56	(38)	DBL WORD	8	PCBQASCP	and average
64	(40)	DBL WORD	8	PCBQGSRU	Total run time (micro)
72	(48)	DBL WORD	8	PCBQASRU	and average
80	(50)	DBL WORD	8	PCBQGSEL	Total elapsed time (micro)
88	(58)	DBL WORD	8	PCBQASEL	and average
96	(60)	SIGNED	4	PCBQGSJQ	Total JQEs scanned
100	(64)	SIGNED	4	PCBQASJQ	and average (x100)
104	(68)	SIGNED	4	PCBQGSJA	Total JQAs scanned
108	(6C)	SIGNED	4	PCBQASJA	and average (x100)
112	(70)	SIGNED	4	PCBQGSWS	Total WSSERV calls made
116	(74)	SIGNED	4	PCBQASWS	and average (x100)
120	(78)	SIGNED	4	PCBQGSDS	Total duplicate jobs skip



Table 114. Structure PCBQGST (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
124	(7C)	SIGNED	4	PCBQASDS	and average (x100)
128	(80)	SIGNED	4	PCBQGSCS	Total CAT/WSCQ jobs skip
132	(84)	SIGNED	4	PCBQASCS	and average (x100)
136	(88)	SIGNED	4	PCBQGSX1	Total exit 14 calls
140	(8C)	SIGNED	4	PCBQASX1	and average (x100)
144	(90)	SIGNED	4	PCBQGSX9	Total exit 49 calls
148	(94)	SIGNED	4	PCBQASX9	and average (x100)
152	(98)	SIGNED	4	PCBQGSXR	Total exit 49 rejects
156	(9C)	SIGNED	4	PCBQASXR	and average (x100)
160	(A0)	SIGNED	4	PCBQMXDS	Max duplicate skipped
168	(A8)	DBL WORD	8	PCBQMXDT	and associated CPU time
176	(B0)	DBL WORD	8	PCBQMXCT	Max CAT/WSC skipped
184	(B8)	SIGNED	4	PCBQMXCS	and associated CPU time
Unsuccessful call statistics					
188	(BC)	CHARACTER	4	PCBQGUID	Unsuccessful stats eyecatch
192	(C0)	SIGNED	4	PCBQGUSC	Count of unsuccessful calls
196	(C4)	BITSTRING	1	PCBQGUFQ	QGET type flags
		1... ....		PCBQFUIN	"B'10000000" Initiator selection
		.1.. ....		PCBQFUDV	"B'01000000" Device selection
		..1. ....		PCBQFUXD	"B'00100000" Max duplicate skip set
		...1 ....		PCBQFUXC	"B'00010000" Max CAT/WSCQ skip set
197	(C5)	BITSTRING	7		Reserved
208	(D0)	DBL WORD	8	PCBQGUCP	Total CPU time (micro)
216	(D8)	DBL WORD	8	PCBQAUCP	and average
224	(E0)	DBL WORD	8	PCBQGURU	Total run time (micro)
232	(E8)	DBL WORD	8	PCBQAURU	and average
240	(F0)	DBL WORD	8	PCBQGUEL	Total elapsed time (micro)
248	(F8)	DBL WORD	8	PCBQAUEL	and average
256	(100)	SIGNED	4	PCBQGUJQ	Total JQEs scanned
260	(104)	SIGNED	4	PCBQAUJQ	and average (x100)
264	(108)	SIGNED	4	PCBQGUJA	Total JQAs scanned
268	(10C)	SIGNED	4	PCBQAUJA	and average (x100)
272	(110)	SIGNED	4	PCBQGUWS	Total WSSERV calls made
276	(114)	SIGNED	4	PCBQAUWS	and average (x100)
280	(118)	SIGNED	4	PCBQGUDS	Total duplicate jobs skip
284	(11C)	SIGNED	4	PCBQAUDS	and average (x100)
288	(120)	SIGNED	4	PCBQGUCS	Total CAT/WSCQ jobs skip
292	(124)	SIGNED	4	PCBQAUCS	and average (x100)
296	(128)	SIGNED	4	PCBQGUX1	Total exit 14 calls
300	(12C)	SIGNED	4	PCBQAUX1	and average (x100)
304	(130)	SIGNED	4	PCBQGUX9	Total exit 49 calls
308	(134)	SIGNED	4	PCBQAUX9	and average (x100)
312	(138)	SIGNED	4	PCBQGUXR	Total exit 49 rejects
316	(13C)	SIGNED	4	PCBQAUXR	and average (x100)



Table 114. Structure PCBQGST (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
320	(140)	SIGNED	4	PCBQUXDS	Max duplicate skipped
328	(148)	DBL WORD	8	PCBQUXDT	and associated CPU time
336	(150)	DBL WORD	8	PCBQUXCT	Max CAT/WSC skipped
344	(158)	SIGNED	4	PCBQUXCS	and associated CPU time
344	(158)	X'15C'	0	PCBQGSTL	"*-PCBQGST" Length of area

Table 115. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
CKPTSTAT MAS Hold/dormancy stats					
1524	(5F4)	ADDRESS	4	PCBCKMAS	MAS CKPT data array

Table 116. Structure PCBMAS

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCBMAS	, CKPT HOLD/DORMANCY info
0	(0)	CHARACTER	4	PCBMASID	Eyecatcher
4	(4)	SIGNED	4		Reserved
8	(8)	BITSTRING	0	PCBMASST(0)	MAS CKPT data array
8	(8)	X'1108'	0	PCBMASLN	"*-PCBMAS" Length of area

Table 117. Structure PCBMASE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCBMASE	, CKPT HOLD/DORMANCY info
0	(0)	CHARACTER	4	PCBMSEID	Eyecatcher
4	(4)	CHARACTER	4	PMASSID	Member name (SID)
8	(8)	SIGNED	4	PMASCNT	Count of all samples
12	(C)	SIGNED	4	PMASFWC	Count of tuning req samples (XRES1FW is set)
16	(10)	SIGNED	4	PMASCTRT	Ratio of CNT to FWC (x100)
20	(14)	SIGNED	4		Reserved
24	(18)	DBL WORD	8	PMASHOLD	Accumulated HOLD time
32	(20)	DBL WORD	8	PMASAHLD	Average HOLD time
40	(28)	DBL WORD	8	PMASDORM	Accumulated dormancy time
48	(30)	DBL WORD	8	PMASADRM	Average DORMANCY time
56	(38)	SIGNED	4	PMASCHLL	Configured hold minimum
60	(3C)	SIGNED	4	PMASCHLM	Configured hold maximum
64	(40)	DBL WORD	8	PMASCHLD	Accumulated configured hold
72	(48)	SIGNED	4	PMASCHLA	Average config hold time
76	(4C)	SIGNED	4	PMASCMDL	Configured min dorm minimum
80	(50)	SIGNED	4	PMASCMDM	Configured min dorm maximum
84	(54)	SIGNED	4	PMASCMDA	Average config min dorm
88	(58)	DBL WORD	8	PMASCMDD	Accumulated config min dorm
96	(60)	SIGNED	4	PMASCMXL	Configured max dorm minimum



Table 117. Structure PCBMASE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
100	(64)	SIGNED	4	PMASCMXM	Configured max dorm maximum
104	(68)	DBL WORD	8	PMASCMXD	Accumulated config max dorm
112	(70)	SIGNED	4	PMASCMXA	Average config max dorm
116	(74)	SIGNED	4	PMASPAIL	Minimum PAIN value
120	(78)	SIGNED	4	PMASPAIM	Maximum PAIN value
124	(7C)	SIGNED	4	PMASPAIA	Average PAIN value
128	(80)	DBL WORD	8	PMASPAID	Accumulate PAIN value
128	(80)	X'88'	0	PCBMASEL	"*-PCBMASE" Length of area

Table 118. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
XCF message (XREQ) statistics Messages sent and received on the SYSJESXCF\$CMD mailbox.					
1528	(5F8)		1	PCBXMLRS	STCKE time at last reset
1544	(608)	DBL WORD	8	PCBXMINT	STCK reset interval (micro)
1552	(610)	ADDRESS	4	PCBXMSGA	XREQ message array

Table 119. Structure PCBXREQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCBXREQ	, XREQ message info
0	(0)	CHARACTER	4	PCBXQID	Eyecatcher
4	(4)	BITSTRING	1	PCBXQTYP	XREQ msg type (XREQINFO)
5	(5)	BITSTRING	3		Reserved
8	(8)	CHARACTER	8	PCBXQNAM	XREQ field name
16	(10)	DBL WORD	8	PCBXQCTS(0)	Sent/receive counts
16	(10)	X'0'	0	PCBXQSND	"0,4" Msgs sent
16	(10)	X'4'	0	PCBXQRCV	"4,4" Msgs received
16	(10)	X'110'	0	PCBXQLEN	"*-PCBXREQ" Length of entry

Table 120. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
1556	(614)	SIGNED	4	(3)	Reserved
1568	(620)		1	(0)	Alignment
1568	(620)	X'620'	0	PCBLEN	"*-PERFCB" Length of PERFCB

Table 121. Cross Reference for \$PERFCB

Name	Offset	Hex	Tag
EVENT	0		
EVNTABND	38		2
EVNTDATA	3C		



Table 121. Cross Reference for \$PERFCB (continued)

Name	Offset	Hex Tag
EVNTDELT	48	
EVNTDIST	38	3
EVNTDUR	10	
EVNTFLG1	3A	
EVNTID	0	C5E5D5E3
EVNTJID	30	
EVNTLEN	50	50
EVNTLIMIT	38	4
EVNTMODN	20	
EVNTNEXT	4	
EVNTPCE	44	
EVNTPNAM	18	
EVNTRUN	38	1
EVNTSEQN	28	
EVNTTIME	8	
EVNTTYPE	38	
EVNTXIT	39	
EVNT1CNT	3A	40
EVNT1DEL	3A	80
GTPTCPUT	0	
GTPTDAT	0	
GTPTLEN	18	20
GTPTQSUS	10	
GTPTRUNT	8	
GTPTSTCK	18	
INITRCPU	10	
INITRENT	10	0
INITRNAM	0	
INITRTIM	8	
INITSTAT	0	
PCB#GCAV	508	
PCB#GCPU	500	
PCB#GFAV	530	
PCB#GFCP	528	
PCB#GFPN	538	
PCB#GFPZ	53C	
PCB#GFZC	540	
PCB#GFZV	548	
PCB#GNUM	510	



Table 121. Cross Reference for \$PERFCB (continued)

Name	Offset	Hex Tag
PCB#GXAV	558	
PCB#GXCP	550	
PCB#GXNM	560	
PCB#GXZC	568	
PCB#GXZN	564	
PCB#GXZV	570	
PCB#GZAV	520	
PCB#GZCP	518	
PCB#GZNM	514	
PCB#PCAV	4F8	
PCB#PCPU	4F0	
PCB#PNUM	4EC	
PCB#WINT	588	
PCB#WLRS	578	
PCBCKADR	1B8	
PCBCKAHL	198	
PCBCKCBC	1D4	
PCBCKCDR	1AC	
PCBCKCHL	1A0	
PCBCKCNT	1C0	
PCBCKDHI	1F8	
PCBCKDLO	1FC	
PCBCKFMT	428	
PCBCKFW	3C0	
PCBCKHHI	1F0	
PCBCKHLO	1F4	
PCBCKINT	188	
PCBCKIO	0	
PCBCKIO#	428	6
PCBCKIOA	10	
PCBCKIOB	20	
PCBCKIOC	4	
PCBCKIOL	60	68
PCBCKION	0	
PCBCKIOT	8	
PCBCKIO4	18	
PCBCKIST_ACPU	30	
PCBCKIST_AIOS	50	
PCBCKIST_AREC	60	



Table 121. Cross Reference for \$PERFCB (continued)

Name	Offset	Hex Tag
PCBCKIST_ATIM	40	
PCBCKIST_CPU	28	
PCBCKIST_IOS	48	
PCBCKIST_REC	58	
PCBCKIST_TIM	38	
PCBCKIW	358	
PCBCKLRS	178	
PCBCKMAS	5F4	
PCBCKNAD	1DC	
PCBCKOCK	1C8	
PCBCKOVC	1A8	
PCBCKOVH	1A4	
PCBCKO4K	1CC	
PCBCKPMA	218	
PCBCKPMC	21C	
PCBCKPMD	210	
PCBCKPW	2F0	
PCBCKQDA	208	
PCBCKQDF	200	
PCBCKR1	220	
PCBCKR2	288	
PCBCKSKP	1C4	
PCBCKTDR	1B0	
PCBCKTHL	190	
PCBCKTPM	1E8	
PCBCKTPN	1E0	
PCBCKTP1	1E0	1E4
PCBCKTP2	1E8	1EC
PCBCK4KC	1D0	
PCBCPULD	C0	
PCBCPULW	D8	
PCBCUMPN	130	
PCBDGCNR	4DC	
PCBDGCU	4E0	
PCBDGINT	4C0	
PCBDGLRS	4B0	
PCBDGNTB	4D8	
PCBDGNTS	4D4	
PCBDGSYN	4C8	



Table 121. Cross Reference for \$PERFCB (continued)

Name	Offset	Hex Tag
PCBDGUPR	4D0	
PCBDGUPS	4CC	
PCBEVCNT	158	
PCBEVINT	170	
PCBEVLRS	160	
PCBEVNLM	15C	64
PCBEVNTF	150	
PCBEVNTL	154	
PCBEVNTX	150	
PCBID	0	D7C3C240
PCBINITS	10	
PCBLEN	620	620
PCBLSTRS	F0	
PCBLSTRT	F8	
PCBMAS	0	
PCBMASE	0	
PCBMASEL	80	88
PCBMASID	0	
PCBMASLN	8	1108
PCBMASST	8	
PCBMIGR	4E8	
PCBMSEID	0	
PCBPCEID	120	
PCBPCNAM	124	
PCBPTPB	118	
PCBPTPBS	11C	
PCBPY#AP	590	
PCBPY#CM	594	
PCBPYCAV	5A0	
PCBPYCPU	598	
PCBPYINT	5A8	
PCBPYLRS	5B0	
PCBQASCP	38	
PCBQASCS	84	
PCBQASDS	7C	
PCBQASEL	58	
PCBQASJA	6C	
PCBQASJQ	64	
PCBQASRU	48	



Table 121. Cross Reference for \$PERFCB (continued)

Name	Offset	Hex Tag
PCBQASWS	74	
PCBQASXR	9C	
PCBQASX1	8C	
PCBQASX9	94	
PCBQAUCP	D8	
PCBQAUCS	124	
PCBQAUDS	11C	
PCBQAUEL	F8	
PCBQAUJA	10C	
PCBQAUJQ	104	
PCBQAURU	E8	
PCBQAUWS	114	
PCBQAUXR	13C	
PCBQAUX1	12C	
PCBQAUX9	134	
PCBQFSDV	28	40
PCBQFSIN	28	80
PCBQFSXC	28	10
PCBQFSXD	28	20
PCBQFUDV	C4	40
PCBQFUIN	C4	80
PCBQFUXC	C4	10
PCBQFUXD	C4	20
PCBQGCNT	1C	
PCBQGID	0	D8C7E2E3
PCBQGINT	5E8	
PCBQGLRS	5D8	
PCBQGNXT	4	
PCBQGQUE	5F0	
PCBQGSCP	30	
PCBQGSCS	80	
PCBQGSDS	78	
PCBQGSEL	50	
PCBQGSFG	28	
PCBQGSID	20	
PCBQGSJA	68	
PCBQGSJQ	60	
PCBQGSRU	40	
PCBQGST	0	



Table 121. Cross Reference for \$PERFCB (continued)

Name	Offset	Hex Tag
PCBQGSTL	158	15C
PCBQGSUC	24	
PCBQGSWS	70	
PCBQGSXR	98	
PCBQGSX1	88	
PCBQGSX9	90	
PCBQGTYP	8	
PCBQGUCP	D0	
PCBQGUCS	120	
PCBQGUDS	118	
PCBQGUEL	F0	
PCBQGUGF	C4	
PCBQGUID	BC	
PCBQGUJA	108	
PCBQGUJQ	100	
PCBQGURU	E0	
PCBQGUSC	C0	
PCBQGUWS	110	
PCBQGUXR	138	
PCBQGUX1	128	
PCBQGUX9	130	
PCBQMXCS	B8	
PCBQMXCT	B0	
PCBQMXDS	A0	
PCBQMXDT	A8	
PCBQSINT	B0	
PCBQSLRS	A0	
PCBQSNDX	1C	
PCBQSPAT	B8	
PCBQSUHD	14	
PCBQSUTL	18	
PCBQUXCS	158	
PCBQUXCT	150	
PCBQUXDS	140	
PCBQUXDT	148	
PCBRSTIS	108	
PCBRSTIT	110	
PCBRUNLD	C8	
PCBRUNLW	E0	



Table 121. Cross Reference for \$PERFCB (continued)

Name	Offset	Hex Tag
PCBSBCNT	10	
PCBSBCTA	40	
PCBSBCTM	38	
PCBSBID	0	E2C2E2E3
PCBSBINT	4A0	
PCBSBLRS	490	
PCBSBNAM	4	
PCBSBNXT	C	
PCBSBQTA	20	
PCBSBQTM	18	
PCBSBQUE	4A8	
PCBSBRTA	30	
PCBSBRTM	28	
PCBSBST	0	
PCBSBSTL	40	48
PCBTEWA	5D0	
PCBVERN	4	2
PCBVERSN	4	
PCBWORK	8	
PCBXMIN	608	
PCBXMLRS	5F8	
PCBXMSG	610	
PCBXQCTS	10	
PCBXQLEN	10	110
PCBXQNAM	8	
PCBXQRCV	10	4
PCBXQSND	10	0
PCBXQTYP	4	
PCBXREQ	0	
PCBXRQID	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	



Table 121. Cross Reference for \$PERFCB (continued)

Name	Offset	Hex Tag
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PMASADRM	30	
PMASAHLD	20	
PMASCHLA	48	
PMASCHLD	40	
PMASCHLL	38	
PMASCHLM	3C	
PMASCMDA	54	
PMASCMDD	58	
PMASCMDL	4C	
PMASCMDM	50	
PMASCMXA	70	
PMASCMXD	68	
PMASCMXL	60	
PMASCMXM	64	
PMASCNT	8	
PMASCTRT	10	
PMASDORM	28	
PMASFWC	C	
PMASHOLD	18	
PMASPAIA	7C	
PMASPAID	80	
PMASPAIL	74	
PMASPAIM	78	
PMASSID	4	
PMIG	0	
PMIGCLNT	50	
PMIGCPYC	38	
PMIGCPYM	3C	
PMIGCPYT	30	
PMIGCUPC	48	
PMIGCUPM	4C	
PMIGCUPT	40	
PMIGFLG1	14	



Table 121. Cross Reference for \$PERFCB (continued)

Name	Offset	Hex Tag
PMIGID	0	D7D4C9C7
PMIGINTT	20	
PMIGLEN	60	60
PMIGNEXT	4	
PMIGOVRT	58	
PMIGSETT	28	
PMIGSORC	8	
PMIGSTRT	18	
PMIGTARG	E	
PMIG1MOV	14	80
PPB	0	
PPBCKPTN	34	
PPBCPUT	10	
PPBID	0	
PPBIOCNT	30	
PPBLEN	48	48
PPBLPEVN	6	1
PPBLPOST	6	
PPBLPRES	6	0
PPBLPSSI	6	3
PPBLPSUB	6	4
PPBLPXC	6	2
PPBPAWCT	38	
PPBPTPB	8	
PPBQSUSE	28	
PPBRUNT	18	
PPBVER	4	1
PPBVERN	4	
PPBWAITC	C	
PPBWAITT	20	
PSCBD	0	
PSCBID	0	
PSCBLEN	18	18
PSCBNEXT	4	
PSCBTYPE	8	
PSCBWAIT	10	
PSCBWCNT	C	
PTPB	0	
PTPBCKPT	34	



Table 121. Cross Reference for \$PERFCB (continued)

Name	Offset	Hex Tag
PTPBCPUT	20	
PTPBDISP	14	
PTPBID	0	
PTPBIOCT	10	
PTPBJOB	3C	
PTPBLN	50	50
PTPBNEXT	4	
PTPBNUMB	44	
PTPBNXT2	8	
PTPBPAID	48	
PTPBPAWC	38	
PTPBPRCC	40	
PTPBQSUS	28	
PTPBRUNT	18	
PTPBTAB	C	
PTPBWTCH	30	
QSUCB	0	
QSUCBADR	14	
QSUCBANX	8	
QSUCBCNT	1C	
QSUCBID	0	
QSUCBLN	50	50
QSUCBPAA	48	
QSUCBPAI	40	
QSUCBPFL	2C	
QSUCBPIN	28	
QSUCBPLT	28	
QSUCBPSC	2E	
QSUCBPSQ	36	
QSUCBTIM	20	
QSUCBUNX	C	
QSUCBUPR	10	
QSUCBVR	4	1
QSUCBVRN	4	
QSUCBXIT	3E	
WTCB	0	
WTCBADR	8	
WTCBADR2	C	
WTCBID	0	



Table 121. Cross Reference for \$PERFCB (continued)

Name	Offset	Hex Tag
WTCBINFO	8	
WTCBLEN	50	50
WTCBNEXT	4	
WTCBPFL1	24	
WTCBPINH	25	
WTCBPINS	20	
WTCBPLST	20	
WTCBPRQ0	36	
WTCBPSCB	10	
WTCBPSEC	26	
WTCBPSEQ	2E	
WTCBWAIT	18	
WTCBWCNT	14	
WTCBXIT	4C	
WTCB2PLA	48	
WTCB2PLL	50	10
WTCB2PLT	38	
WTCB2SEC	38	
WTCB2SEQ	40	

## \$PIT information

### \$PIT programming interface information

\$PIT is a programming interface.

### \$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 SJBPIT 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 mapping

Table 122. Structure PIT

Offset Dec	Offset Hex	Type	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)	BITSTRING	8	PITASCBT	Address Space Token
20	(14)	ADDRESS	4	PITJQOFF	Offset of initiator's JQE
24	(18)	BITSTRING	1	PITFLAGS	PIT FLAG BYTE



Table 122. Structure PIT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
EQU B'10000000' Was PITDUPJ					
		.1.. ....		PITSMVER	"B'01000000" Waiting for memory create
		..1. ....		PITSIVER	"B'00100000" PIT Awaiting \$SI verification
		...1 ....		PITSRSOK	"B'00010000" Initiator start-up has progressed far enough to allow automatic restart
		.... 1...		PITCLFMT	"B'00001000" PITCLASS format : OFF = PITCLASS contains up to 36 one char class names. ON = PITCLASS contains a mixture of up to 8 eight char class names and class group names.
		.... .1..		PITASC31	"B'00000100" ASCBV31=YES specified
25	(19)	BITSTRING	1	PITSTAT	LOGICAL PARTITION STATUS BYTE
		1... ....		PITHOLDA	"B'10000000" PIT is drained (\$P I)
		.1.. ....		PITHOLD1	"B'01000000" PIT is drained (\$P IN)
		..1. ....		PITHOLDR	"B'00100000" PIT is stopped, but not via a command. PIT will automatically be restarted if PITHOLDA and PITHOLD1 are not on.
25	(19)	X'E0'	0	PITHOLD	"PITHOLDA+PITHOLD1+PITHOLDR" PIT is drained
		...1 ....		PITBUSY	"B'00010000" Partition busy indicator
		.... 1...		PITHALTA	"B'00001000" PIT is halted (\$Z I)
		.... .1..		PITHALT1	"B'00000100" PIT is halted (\$Z IN)
		.... ..1.		PITINIT	"B'00000010" OS initiator exists for PIT
		.... ...1		PITIDLE	"B'00000001" PIT 'Idle' message sent and no jobs are executing on this started initiator
26	(1A)	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
		1... ....		PIT2NSJB	"B'10000000" Init with no SJB needs to be cleaned up
27	(1B)	SIGNED	1	PITCLEAN	ID of PIT cleaner
27	(1B)	X'1'	0	PITCLN1	"1" PIT cleanup routine
27	(1B)	X'2'	0	PITCLN2	"2" Pending by class
27	(1B)	X'3'	0	PITCLN3	"3" XPITTERM
27	(1B)	X'4'	0	PITCLN4	"4" XINSTART (ASCRE failed)
27	(1B)	X'5'	0	PITCLN5	"5" XDRINIT
27	(1B)	X'6'	0	PITCLN6	"6" XREENQ
27	(1B)	X'7'	0	PITCLN7	"7" XINSTART (Before ASCRE)



Table 122. Structure PIT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>The PITPATID is the initiator's 'name' or 'id'.</p> <p>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.</p> <p>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).</p> <p>Commands against PITs can be done with subscript compares in character format, or with numerical indices. For example, \$SI(1-20) starts all initiators in the numerical range 1-20 regardless of the value of PITPATID. \$SI(ABC), on the other hand, starts all initiators with a name of ABC in PITPATID.</p> <p>Normal \$SCAN rules apply when determining whether the specified subscript corresponds to the symbolic name or the numerical index.</p>					
28	(1C)	CHARACTER	4	PITPATID	Initiator partition 'id'
32	(20)	CHARACTER	64	PITCLASS	Class list. Contents depend on the PITCLFMT bit.
32	(20)	CHARACTER	36	PITCLS1	1 character class list (PITCLFMT bit off)
32	(20)	CHARACTER	8	PITCLS8(0)	8 character class list (PITCLFMT bit on)
96	(60)	BITSTRING	4	PITJBKEY	Job key for INIT STC
100	(64)	SIGNED	2	PITASID	Initiator ASID
102	(66)	SIGNED	2	PITNUMB	Initiator number
104	(68)	BITSTRING	4		Reserved
112	(70)	DBL WORD	8	(0)	Ensure doubleword length
112	(70)	X'70'	0	PITLEN	"*-PIT" PIT LENGTH

Table 123. Cross Reference for \$PIT

Name	Offset	Hex	Tag
PIT	0		
PITASCB	8		
PITASCBT	C		
PITAS31	18		4
PITASID	64		
PITBUSY	19		10
PITCLASS	20		
PITCLEAN	1B		
PITCLFMT	18		8
PITCLN1	1B		1
PITCLN2	1B		2
PITCLN3	1B		3
PITCLN4	1B		4
PITCLN5	1B		5
PITCLN6	1B		6
PITCLN7	1B		7
PITCLS1	20		



Table 123. Cross Reference for \$PIT (continued)

Name	Offset	Hex Tag
PITCLS8	20	
PITFLAGS	18	
PITHALTA	19	8
PITHALT1	19	4
PITHOLD	19	E0
PITHOLDA	19	80
PITHOLDR	19	20
PITHOLD1	19	40
PITIDLE	19	1
PITINIT	19	2
PITJBKEY	60	
PITJQOFF	14	
PITLEN	70	70
PITNEXT	0	
PITNUMB	66	
PITPATID	1C	
PITSIVER	18	20
PITSJB	4	
PITSMVER	18	40
PITSRSOK	18	10
PITSTAT	19	
PITSTAT2	1A	
PIT2NSJB	1A	80

## \$PPPWORK information

### \$PPPWORK programming interface information

\$PPPWORK is a programming interface.

### \$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 mapping

Table 124. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP PRINT/PUNCH PROCESSOR
336	(150)	BITSTRING	1	PPPFLAG1	PRINT/PUNCH FLAG BYTE
		1... ..		PPP1WRTS	"X'80'" PRINT/PUNCH WRITE SWITCH
		.1.. ..		PPP1SUSP	"X'40'" PRINT/PUNCH SUSPEND SWITCH
		..1. ....		PPP1NSKP	"X'20'" No Skip-to-channel-1
		...1 ....		PPP1TERM	"X'10'" PRINT/PUNCH TERMINATION SWITCH
		.... 1...		PPP1FNCI	"X'08'" PUNCH INTERPRET REQUESTED
		.... .1..		PPP1DRER	"X'04'" PRINT/PUNCH DATA READ ERROR
		.... ..1.		PPP1JIRE	"X'02'" PRINT/PUNCH JCT/IOT READ ERROR
337	(151)	BITSTRING	1	PPPFLAG2	PRINT/PUNCH FLAG BYTE



Table 124. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ....		PPP2TCEL	"X'80'" TRACK-CELL DE-SPOOLING SWITCH
		.1.. ....		PPP2READ	"X'40'" PRINT/PUNCH READ SWITCH
		..1. ....		PPP2CKPN	"X'20'" PRINT/PUNCH CKPT-NEEDED SWITCH
		...1 ....		PPP2CKPA	"X'10'" PRINT/PUNCH CKPT-ALLOWED SWITCH
		.... 1...		PPP2PCIW	"X'08'" PRINT/PUNCH PCI WAIT SWITCH
		.... .1..		PPP2OPTJ	"X'04'" PRINTER OPTCD=J SWITCH
		.... ..1.		PPP2FDS	"X'02'" FIRST SYSOUT DATA SET SWITCH
		.... ...1		PPP2SMFE	"X'01'" DATA BUFFER ERROR FLAG FOR SMF
338	(152)	BITSTRING	1	PPPFLAG3	PRINT/PUNCH FLAG BYTE 3
		1... ....		PPP3TRNC	"X'80'" TRUNCATE OUTPUT
		.1.. ....		PPP3RECV	"X'40'" RECOVERY IN PROCESS
		..1. ....		PPP3NAVL	"X'20'" DEVICE NO LONGER AVAILABLE
		...1 ....		PPP3CK38	"X'10'" 3800 CHECKPOINT FLAG
		.... 1...		PPP3CKRP	"X'08'" 3800 REPOSITION BIT
		.... .1..		PPP3CKSU	"X'04'" 3800 PPQ SUSPEND BIT
		.... ..1.		PPP3CKRS	"X'02'" 3800 RESTART BIT G38E
		.... ...1		PPP3INIT	"X'01'" FIRST USE BIT
339	(153)	BITSTRING	1	PPPS6DCI	PRINT/PUNCH SMF FLAGS (SMF6DCI)
340	(154)	BITSTRING	1	PPPDCTFL	PR/PU/RMT DCT FLAGS (DCTFLAGS)
341	(155)	BITSTRING	1	PPPBFOPT	PRINT/PUNCH BUFFERING OPTION
342	(156)	SIGNED	2		Reserved
344	(158)	SIGNED	4	PPPUCB	ADDRESS OF OUTPUT DEVICE UCB
348	(15C)	SIGNED	4	PPPXTCW(0)	3800 SELECT-XTAB CCW OP-CODES
348	(15C)	SIGNED	4	PPPUCCW	ADDRESS OF PUNCH ERROR CCW
352	(160)	SIGNED	8	PPPTIMON	PRT/PUN SIGN-ON TIME/DATE
360	(168)	SIGNED	4	PPBFADR	ADDR OF 1ST DATA BUFFER CHAIN
364	(16C)	SIGNED	4	PPBFSAV	ADDR OF NEXT DATA BUFFER CHAIN
368	(170)	SIGNED	4	PPPJCTBF	ADDRESS OF JCT BUFFER
372	(174)	SIGNED	4	PPPLCCWA	ADDRESS OF LAST CCW
376	(178)	SIGNED	2	PPPLCCW0	OFFSET TO LAST CCW IN CHAIN
378	(17A)	BITSTRING	1	PPPRMSEL	SNA REMOTE SELECT BYTE SAVE AREA
379	(17B)	BITSTRING	1	PPP3211I	3211 INDEX VALUE
380	(17C)	BITSTRING	1	PPPFLAG4	PRINT/PUNCH FLAG BYTE 4
		1... ....		PPP4PS38	"X'80'" 3800 PATH SET INDICATOR
		.1.. ....		PPP43081	"X'40'" WCS PATH INDICATOR
		..1. ....		PPP4EX15	"X'20'" EXIT 15 SWITCH
		...1 ....		PPP4RPBS	"X'10'" REPOSITION DUE TO BSPACE
		.... 1...		PPP4QSMF	"X'08'" \$QUESMFB INDICATOR
		.... .1..		PPP4FPRD	"X'04'" \$F PRTN,D IN PROGRESS
		.... ..1.		PPP4FAUT	"X'02'" A PDDb within the work JOE failed the authorization check
		.... ...1		PPP4CALL	"X'01'" All skips to channel treated as new page
381	(17D)	BITSTRING	1	PPPFLAG5	PRPU FLAG BYTE 5, HASP185 USE



Table 124. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		PPP5DSOP	"B'10000000'" DATASET OPEN, NOT CLOSED
		.1.. ..		PPP5IJBK	"B'01000000'" INVALID JOB KEY FOR BUFFER
		..1. ....		PPP5IDSK	"B'00100000'" INVALID DATASET KEY FOR BUFFER
		...1 ....		PPP5IOER	"B'00010000'" I/O ERROR ON CNTRL BLOCK READ
		.... 1...		PPP5IMTT	"B'00001000'" INVALID TRACK ADDR FOR READ
		.... .1..		PPP5OJOE	"B'00000100'" PRINT/PUNCH OBSOLETE JOE SWITCH
		.... ..1.		PPP5AUTF	"B'00000010'" AUTHORIZATION FAILED
		.... ...1		PPP5T185	"B'00000001'" ERROR ENCOUNTERED WHEN DATASET WAS CLOSED
382	(17E)	BITSTRING	1	PPPFLAG6	Print/Punch Flag byte 6
		1... ..		PPP6LERR	"B'10000000'" Logical error during SWBTUREQ service
		.1.. ..		PPP6NEWS	"B'01000000'" JESNEWS requested and available
		..1. ....		PPP6SWBD	"B'00100000'" Unsuccessful I/O for SWBITs
		...1 ....		PPP6NODS	"B'00010000'" No data set found in IOT
		.... 1...		PPP6BFER	"B'00001000'" Large SMF buffer is too small to hold type 6 with SWBTU
		.... .1..		PPP6DSMR	"B'00000100'" PDSMRSWB routine entered
		.... ..1.		PPP6MRGR	"B'00000010'" \$SWBMERG invoked
		.... ...1		PPP6ABND	"B'00000001'" Abend in PDSMRSWB and/or \$SWBMERG service
383	(17F)	BITSTRING	1	PPPFLAG7	Print/Punch Flag byte 7
		1... ..		PPP7RTRI	"B'10000000'" Recovering from abend in \$SWBMERG service
		.1.. ..		PPP7SMRC	"B'01000000'" Abend in \$SWBMERG cleanup call
		..1. ....		PPP7SMFU	"B'00100000'" SMF RECORD UPDATED
		...1 ....		PPP7TRAN	"B'00010000'" Translate lines
		.... 1...		PPP71PPF	"B'00001000'" In case of impact printer restarting from backspace
		.... .1..		PPP7TRLR	"B'00000100'" Printing job trailer page
384	(180)	BITSTRING	1		RESERVED FOR FUTURE USE
385	(181)	BITSTRING	1	PPPSAVDF	WORK AREA FOR SPACING FLAG
386	(182)	BITSTRING	1	PPPJOEFL	COPY OF JOEFLAG1
387	(183)	BITSTRING	2	PPPFCEBMP	FCB BIT MAP
389	(185)	BITSTRING	1	PPPERCNT	PERM ERP ERROR COUNT
390	(186)	SIGNED	2	PPPBFLRC	NO. OF LRC WITHIN CURRENT BUFFR
392	(188)	SIGNED	4	PPPRCBVS	RCB WORK AREA
396	(18C)	BITSTRING	1	PPPRBFAV	Record buffers available
397	(18D)	BITSTRING	1	PPPFLAG8	Print/Punch Flag byte 8
		1... ..		PPP8ENCV	"B'10000000'" Encryption validation err



Table 124. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1.. ....		PPP8ENC5	"B'01000000'" Encryption services err
398	(18E)	BITSTRING	2		Reserved
400	(190)	DBL WORD	8	PPPCCWK	CCW ANALYSIS SAVE AREA
408	(198)	SIGNED	4	PPPPNUMR	PAGE NUMBER FOR RE-POSITIONING
412	(19C)	BITSTRING	1	PPPBUFRO	BUFFER OFFSET FOR RE-POSITIONING
413	(19D)	BITSTRING	1	PPPBFAV	COUNT OF AVAILABLE INPUT BUFFERS
414	(19E)	BITSTRING	1	PPPDSCPY	DATA SET COPY COUNT
415	(19F)	BITSTRING	1	PPPPDIRI	PDIR IDENTIFIER
416	(1A0)	ADDRESS	4	PPCHKBF	ADDRESS OF CHK BUFFER
420	(1A4)	ADDRESS	4	PPPSESSA	Address of the ES section in the SMF type 24 record
424	(1A8)	SIGNED	2	PPPNWB	Number of SWBITS for a PDDB
426	(1AA)	SIGNED	2	PPPTUSUM	Total size of all SWBTUs
428	(1AC)	BITSTRING	1	PPPRESP	Copy of the response byte returned from Exit 1 & 15
429	(1AD)	BITSTRING	1	PPPSEPPG	Copy of \$SEPPAGE from HCT
430	(1AE)	SIGNED	2	PPPSPCR	Separator page counter
432	(1B0)	BITSTRING	6	PPPFIOTK	Track address (MQTR) of the IOT for the 1st PDDB of the JOE
438	(1B6)	BITSTRING	2		Reserved
440	(1B8)	ADDRESS	4	PPPFIOA	Buffer address of the IOT for the 1st PDDB of the JOE
444	(1BC)	SIGNED	4	PPFPDDB	Address of the 1st PDDB of the JOE
448	(1C0)	SIGNED	4	PPFWSWTR	Address of the 1st SWBIT MTTR of the JOE
452	(1C4)	SIGNED	4	PPPSWBIT	Address of SWBIT chain
456	(1C8)	SIGNED	4	PPPTURET	Address of TU Pointer List for SWBTUREQ RETRIEVE
460	(1CC)	SIGNED	4	PPPTUSPL	Address of TU Pointer List for SWBTUREQ SPLICE
464	(1D0)	SIGNED	4	PPPKYLS	Address of the Key List used for SWBTUREQ SERVICE
468	(1D4)	SIGNED	4	PPPTUADR	Address of TU output area used for SWBTUREQ SERVICE
472	(1D8)	ADDRESS	4	PPPJSWBT	Address of JOE SWBIT chain
476	(1DC)	SIGNED	2	PPPMOSZ	Modify SWBTU size
478	(1DE)	SIGNED	2	PPPMESZ	Merged SWBTU size
480	(1E0)	ADDRESS	4	PPPMEST	Merged SWBTU address
484	(1E4)	ADDRESS	4	PPPSBMPL	Address of \$SWBMERG parameter list
488	(1E8)	SIGNED	2	PPPTUSZ	Size of the TU output area used for SWBTUREQ SERVICE
490	(1EA)	SIGNED	2	PPPADNUM	Number of lines of ADDRESS
492	(1EC)	ADDRESS	4	PPPIIOB2	Save field for the IOB
496	(1F0)	ADDRESS	4	PPBFVS2	Buffer save field
500	(1F4)	ADDRESS	4	PPBFAD2	Buffer save field
504	(1F8)	SIGNED	4	PPPSEGID	Segment ID for SPIN data sets
508	(1FC)	BITSTRING	4		Alignment/reserved
512	(200)	DBL WORD	8	PPPENCKW(0)	Compression/encryption work area
1040	(410)	BITSTRING	6	PPPMQTD	MQTR of the datablock start



Table 124. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1046	(416)	BITSTRING	6	PPPMQTCR	MQTR of the current HDB
1052	(41C)	BITSTRING	4	PPPNUM38	Page number for 3800 \$F/\$B
1056	(420)	ADDRESS	4	PPXPARM	Exit point parameter list
1060	(424)	BITSTRING	6	PPPWKPTN	Segment number work area
1066	(42A)	BITSTRING	2	PPPSWBRC	Logical error return code
1068	(42C)	BITSTRING	4	PPPSWBRS	Logical error reason code
1072	(430)	BITSTRING	1	PPPHRSN	JOE hold reason
1073	(431)	BITSTRING	3		Reserved for future use
1076	(434)	CHARACTER	36	PPPERMSG	Logical error message
1112	(458)	ADDRESS	4	PPPIOTAD	Address of IOT buffer save area
1116	(45C)	CHARACTER	80	PPPBUSV	PCOMMENT WORK AREA
1120	(460)	DBL WORD	8	PPSSRWK	SEPARATOR SERVICE RTN WORK
BEGIN PRINT/PUNCH CHECKPOINT DATA AREA. THESE FIELDS MUST CORRESPOND EXACTLY TO THE CHKJESWK FIELDS MAPPED IN THE \$CHK DSECT.					
1196	(4AC)	SIGNED	4	(0)	FORCE FULLWORD ALIGNMENT
1196	(4AC)	SIGNED	2	PPPEBRCB	NUMBER OF LAST EJECT RCB
1198	(4AE)	SIGNED	2	PPDDBDS	CURRENT Pddb DISPLACEMENT
1200	(4B0)	SIGNED	4	PPDDBPC	CURRENT Pddb PAGE COUNTER
1204	(4B4)	SIGNED	4	PPPLCCNT	CURRENT LINE OR CARD COUNT
1208	(4B8)	SIGNED	4	PPPPAGCT	CURRENT PAGE COUNT (PHYSICAL)
1212	(4BC)	SIGNED	4		Unused - for alignment
1216	(4C0)	SIGNED	4		Unused - for alignment
1220	(4C4)	BITSTRING	1	PPPCOPCT	COPY COUNTER
1221	(4C5)	BITSTRING	1	PPPLEBOF	LAST EJECT BUFFER OFFSET
1222	(4C6)	BITSTRING	1	PPPCGCNT	CURRENT COPY GROUP COUNT
1223	(4C7)	BITSTRING	1	PPPD SCT	CURRENT DATA SET COUNT
KEEP NEXT TWO FIELDS TOGETHER FOR \$DU COMMAND					
1224	(4C8)	SIGNED	4	PPPRECNM	CURRENT RECORD NUMBER
1228	(4CC)	SIGNED	4	PPPPAGNM	CURRENT PAGE NUMBER
1232	(4D0)	CHARACTER	13		Unused - for alignment
1245	(4DD)	BITSTRING	1	PPPCVERS	CHK version - see \$CHK
1246	(4DE)	SIGNED	2	PPPBPHPC	Pddb PHYSICAL PAGE COUNT
1248	(4E0)	BITSTRING	6	PPPLEBTK	LAST EJECT BUFFER MQTR
1254	(4E6)	BITSTRING	6	PPPIOTTK	CURRENT IOT MQTR
1254	(4E6)	X'4AC'	0	PPPKPTD	"PPPEBRCB,*-PPPEBRCB" CKPT-DATA EQUATE AND LENGTH
END PRINT/PUNCH CHECKPOINT DATA AREA.					
1260	(4EC)	SIGNED	4	(0)	ESTABLISH THE
1252	(4E4)	SIGNED	4	PPPDADCT(0)	USING STORAGE FOR THE DCT FIELDS NOT IN A DA DCT
1260	(4EC)	SIGNED	4	(0)	DA DCT FOR \$EXCP
1288	(508)	SIGNED	4	PPPDEVTP	PRINT/PUNCH DEVICE TYPE



Table 124. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1288	(508)	X'50B'	0	PPPDEV B1	"PPPDEVTP+3,1" UCB BYTE4 HAS 1BYTE DEV CODE
1288	(508)	X'50A'	0	PPPDEV B2	"PPPDEVTP+2,1" UCB BYTE3 HAS 1BYTE CODE
1292	(50C)	SIGNED	4	PPPLSAVE	LINK REGISTER SAVE WORD
1296	(510)	SIGNED	4	PPPLNECT	MAXIMUM LINES PER PAGE
1300	(514)	SIGNED	4	PPPPLC	PRINT/PUNCH PAGE LINE COUNTER
1304	(518)	BITSTRING	2	PPPPLC2	Continuation of PPPPLC for when we use PPPPLC as an MQTR save area.
1306	(51A)	SIGNED	2	PPPCKPPS	LOG PAGES/CKPT SAVE AREA
1308	(51C)	SIGNED	2	PPPCKPP	LOG PAGES/CKPT COUNTER
1310	(51E)	SIGNED	2	PPPCKPLS	LINES/LOG PAGE SAVE AREA
1312	(520)	SIGNED	2	PPPCKPL	LINES/LOG PAGE COUNTER
1314	(522)	BITSTRING	2		Reserved
1316	(524)	ADDRESS	4	PPPWKJOE	Address of real work JOE
1320	(528)	ADDRESS	4	PPPJOAA	Address of JOA that corresponds to PPPWKJOE
1324	(52C)	CHARACTER	8	PPPWKFRM	WORK AREA FOR DEVICE FORMS
1332	(534)	CHARACTER	0	PPPWKWFM(0)	BACKUP AREA FOR LIST OF FORMS
1396	(574)	CHARACTER	8	PPPBLKWK(0)	WORK AREA FOR BLOCK ROUTINE
1396	(574)	CHARACTER	4	PPPWKFCB	WORK AREA FOR DEVICE FCB
1400	(578)	CHARACTER	4	PPPWKUCS	WORK AREA FOR DEVICE UCS
1404	(57C)	SIGNED	4	PPPBSPCT	BSP FRAME PAGE COUNTER
NOTE: Keep PPPCCWPU, PPPPURCB, and PPPPUBF0 together					
1408	(580)	SIGNED	4	PPPLNDSP(0)	PRT BLK LETTER NEW LINE DISPL'T
1408	(580)	BITSTRING	6	PPPCCWPU	MQTR OF LAST PU CCW
1414	(586)	SIGNED	2	PPPLNCTR(0)	PRT BLK LETTER LINE COUNTER
1414	(586)	BITSTRING	2	PPPPURCB	RCB OF LAST PU CCW
1416	(588)	BITSTRING	1	PPPPUBF0	BUFFER OFFSET OF LAST PU CCW
1417	(589)	BITSTRING	1	PPPL3625	LAST 3525 PRINT LINE COMMAND
1418	(58A)	BITSTRING	1	PPPRSC38	MOST RECENT 3800 SELECT CCW
1419	(58B)	BITSTRING	1	PPPTRC38	MAXIMUM 3800 TABLE REF CHAR VALUE
1420	(58C)	CHARACTER	80	PPPMMSG	MESSAGE WORK AREA
1420	(58C)	X'58C'	0	PPPMMSFRM	"PPPMMSG,L'PDBFORMS" SAVE AREA FOR FORMS
1420	(58C)	X'594'	0	PPPMSFCEB	"PPPMMSG+L'PDBFORMS,L'PDBFCB" SAVE AREA FOR FCB
1420	(58C)	X'598'	0	PPPMUSCS	"PPPMMSG+L'PDBFORMS+L'PDBFCB,L'PDBUCS" SAVE AREA UCS
1500	(5DC)	CHARACTER	8	PPPSFORM	SETUP FORM NUMBER
1508	(5E4)	CHARACTER	4	PPPSFCB	SETUP FCB IMAGE
1512	(5E8)	CHARACTER	4	PPPSCHR1	SETUP TRANSLATE TABLE 1
1516	(5EC)	CHARACTER	4	PPPSCHR2	SETUP TRANSLATE TABLE 2
1520	(5F0)	CHARACTER	4	PPPSCHR3	SETUP TRANSLATE TABLE 3
1524	(5F4)	CHARACTER	4	PPPSCHR4	SETUP TRANSLATE TABLE 4
1528	(5F8)	CHARACTER	4	PPPSFLSH	SETUP FLASH ID
1532	(5FC)	CHARACTER	4	PPPSMODI	SETUP MODIFICATION IMAGE



Table 124. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1536	(600)	BITSTRING	1	PPPSFLSC	SETUP FLASH COUNT
1537	(601)	BITSTRING	1	PPPSMODT	SETUP MODIFICATION TRC
1538	(602)	BITSTRING	1	PPPSSCOP	SETUP STARTING COPY NUMBER
1539	(603)	BITSTRING	1	PPPSCOPN	SETUP NO. COPIES THIS XMISSION
1540	(604)	BITSTRING	1	PPPSFL38	3800 SETUP FLAG
		1... ....		PPPSBRST	"B'10000000'" SETUP BURST=YES FLAG
		.1.. ....		PPPSREXM	"B'01000000'" RETRANSMISSION FLAG
		..1. ....		PPPSSEP	"B'00100000'" SETUP FOR SEPARATORS
		...1 ....		PPPSNFLS	"B'00010000'" SETUP FLASH=NO FLAG
		.... 1...		PPPSPCMD	"B'00001000'" SETUP FOR CMD MSG
1541	(605)	BITSTRING	1		Reserved for future use
1542	(606)	CHARACTER	8	PPPKEY(0)	JOB KEY AND DATA SET KEY
1542	(606)	CHARACTER	4	PPPJKEY	JOB KEY FROM JCT
1546	(60A)	CHARACTER	4	PPPSKEY	DATA SET KEY FROM PDDB
1550	(60E)	BITSTRING	2	PPPDSORT	Sort key generation field (low order two bytes of PDBCRTME)
1552	(610)	BITSTRING	2	PPPDSINS	Instance id from PDDB
1554	(612)	BITSTRING	2		Reserved
1556	(614)	SIGNED	4	PPPFBPGC	\$F/\$B PAGE COUNT
1560	(618)	SIGNED	4	PPPOIOB	OUTPUT IOB ADDRESS
1564	(61C)	SIGNED	4	PPPIIOB	INPUT IOB ADDRESS
1568	(620)	SIGNED	4	PPPOCCWP	PRIMARY OUTPUT CCW AREA
1572	(624)	SIGNED	4	PPPOCCWS	SECONDARY OUTPUT CCW AREA
1576	(628)	ADDRESS	4	PPPCDATA	Address of CCW data area(s)
1580	(62C)	ADDRESS	4	PPPCDATP	Primary CCW data area
1584	(630)	ADDRESS	4	PPPCDATS	Secondary CCW data area
1588	(634)	ADDRESS	4	PPPCDATC	Pointer into primary CCW data area
1592	(638)	SIGNED	2	PPPCDATL	Size of CCW data area(s)
1594	(63A)	SIGNED	2	PPPCDATH	Size of one CCW data area
1596	(63C)	BITSTRING	6	PPPNXTCL	MQTR OF NEXT TRAKCELL
1602	(642)	BITSTRING	2		Reserved
1604	(644)	SIGNED	4	PPPTRBFT	ADDR OF MTTR/BUFFER ADDR TABLE
1608	(648)	SIGNED	4	PPPCKPTP	CHECKPOINT DATA POINTER
1612	(64C)	ADDRESS	4	PPPIMDTE	ADDR OF HASPIMEg TASK DTE
1616	(650)	SIGNED	4	PPPRATAD(0)	SAVE AREA FOR RAT ADDRESS
1616	(650)	SIGNED	4	PPPPQH38	3800 PAGE QUEUE HEADER ADR G38E
1620	(654)	SIGNED	4	PPPDSRCT	DATA SET RECORD COUNT
1624	(658)	SIGNED	4	PPPNBLK	NUMBER OF DATA BLOCKS READ
1628	(65C)	SIGNED	4	PPPSMFBF	SMF BUFFER SAVE AREA
1632	(660)	SIGNED	4	PPPSMFPQ	SMF BUFS ON PAGE QUEUE
1636	(664)	BITSTRING	1	PPPPSC38	PREVIOUS 3800 STARTING COPY NO.
1637	(665)	BITSTRING	1	PPPPCC38	PREVIOUS 3800 COPY COUNT
1638	(666)	BITSTRING	8	PPPCGR28	3800 COPY GROUPS DISTRIBUTION
1646	(66E)	BITSTRING	1	PPPFLC38	3800 FLASH COUNT
1647	(66F)	BITSTRING	1	PPPPRFLC	PREVIOUS FLASH COUNT
1648	(670)	CHARACTER	28	PPPBSPT	FOUR ENTRY BACKSPACE TABLE



Table 124. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1676	(68C)	ADDRESS	4	PPPBUFFER	BUFFER OBTAINED IN \$#GET
PARAMETER LIST FOR PRTAUTH ROUTINE CALLED FROM HASPPRPJ. THIS MATCHES THE ONE DEFINED IN \$FSACB.					
1680	(690)	SIGNED	4	PPAPARM(0)	PARM LIST FOR PRTAUTH
1680	(690)	ADDRESS	4	PPPJCTAD	JCT ADDRESS
1684	(694)	ADDRESS	4	PPPDDBA	PDDDB ADDRESS
1688	(698)	ADDRESS	4	PPPANews	JESNEWS ADDRESS
1692	(69C)	CHARACTER	40	PPPLGOST	LOG STRING (ENTITY NAME WITH LENGTH IN THE FIRST BYTE)
1732	(6C4)	ADDRESS	4		RESERVED FOR FUTURE USE
1732	(6C4)	X'38'	0	PPAPLEN	"*-PPAPARM" LENGTH OF PRTAUTH PARMLIST END OF PRTAUTH PARM LIST
Work area for ASAXWC macros MACDATE -12/21/18-<0>					
0	(0)	X'6C8'	0	M00M1496	"PPPLIST" ++ ASAXWC NAME
1736	(6C8)	SIGNED	4	PPPLIST(0)	++ ASAXWC PARM LIST
1736	(6C8)	CHARACTER	4	PPPLIST_XPARMAREA1	++ FIELD_LABEL
1740	(6CC)	CHARACTER	24	PPPLIST_XPARMAREA2	++ FIELD_LABEL
1740	(6CC)	X'6E4'	0	PPPLIST_PL_END	"*" ++ END OF BASE PLIST
1736	(6C8)	ADDRESS	4	PPPLIST_XPATTERNSTR_ADDR	++ ADDR
1740	(6CC)	SIGNED	4	PPPLIST_XPATTERNSTRLEN	++
1744	(6D0)	ADDRESS	4	PPPLIST_XSTRING_ADDR	++ ADDR
1748	(6D4)	SIGNED	4	PPPLIST_XSTRINGLEN	++
1752	(6D8)	ADDRESS	4	PPPLIST_XZEROORMORE_ADDR	++ ADDR
1756	(6DC)	ADDRESS	4	PPPLIST_XONECHAR_ADDR	++ ADDR
1760	(6E0)	ADDRESS	4	PPPLIST_XDELIMITER_ADDR	++ ADDR
1736	(6C8)	ADDRESS	4	PPPLIST_XPPPATTERNINFO_ADDR	++ ADDR
1740	(6CC)	ADDRESS	4	PPPLIST_XPPPATTERNSTR_ADDR	++ ADDR
1744	(6D0)	SIGNED	4	PPPLIST_XPPPATTERNSTRLEN	++
1748	(6D4)	ADDRESS	4	PPPLIST_XPPZEROORMORE_ADDR	++ ADDR
1752	(6D8)	ADDRESS	4	PPPLIST_XPPONECHAR_ADDR	++ ADDR
1756	(6DC)	ADDRESS	4	PPPLIST_XPPDELIMITER_ADDR	++ ADDR
1740	(6CC)	ADDRESS	4	PPPLIST_XPPSTRING_ADDR	++ ADDR
1744	(6D0)	SIGNED	4	PPPLIST_XPPSTRINGLEN	++
1764	(6E4)	X'1C'	0	PPPLISTL	"*-PPPLIST" ++ LENGTH OF PLIST
ASAXWC-0					
1764	(6E4)	BITSTRING	256	PPPARA	Work area passed to ASAXWC
1764	(6E4)	X'6E4'	0	PPPWK18	"PPPARA,18,C'C'" 18-byte work area
2020	(7E4)	SIGNED	4	PPPOILNL(3)	OIL/NIL regs save area
2032	(7F0)	DBL WORD	8	(0)	
2032	(7F0)	X'6A0'	0	PPPLEN	"*-PCEWORK" SIZE OF PPU PCE WORK AREA



Table 125. Cross Reference for \$PPPWORK

Name	Offset	Hex Tag
M00M1496	0	6C8
PCE	0	
PPPADNUM	1EA	
PPPANews	698	
PPPAPARM	690	
PPPAPLEN	6C4	38
PPPAREA	6E4	
PPPBFA DR	168	
PPPBFA D2	1F4	
PPPBFLRC	186	
PPPBFOPT	155	
PPPBFS AV	16C	
PPPBFSV2	1F0	
PPPBLKWK	574	
PPPBPHPC	4DE	
PPPBSPCT	57C	
PPPBSPT	670	
PPPBUF AV	19D	
PPPBUFER	68C	
PPPBUFRO	19C	
PPPBUF SV	45C	
PPPCWPU	580	
PPPCWRK	190	
PPPCDATA	628	
PPPCDATC	634	
PPPCDATH	63A	
PPPCDATL	638	
PPPCDATP	62C	
PPPCDATS	630	
PPPCGCNT	4C6	
PPPCGR28	666	
PPPCHKBF	1A0	
PPPCKPL	520	
PPPCKPLS	51E	
PPPCKPP	51C	
PPPCKPPS	51A	
PPPCKPTD	4E6	4AC
PPPCKPTP	648	
PPPCOPCT	4C4	



Table 125. Cross Reference for \$PPWORK (continued)

Name	Offset	Hex Tag
PPPCVERS	4DD	
PPPDADCT	4E4	
PPPDCTFL	154	
PPPDDBDS	4AE	
PPPDDBPC	4B0	
PPPDEVB1	508	50B
PPPDEVB2	508	50A
PPPDEVTP	508	
PPPDSCPY	19E	
PPPDSCCT	4C7	
PPPDSINS	610	
PPPDSKEY	60A	
PPPDSORT	60E	
PPPDSRCT	654	
PPPEBRCB	4AC	
PPPENCWK	200	
PPPERCNT	185	
PPPERMSG	434	
PPPFBPGC	614	
PPPFCBMP	183	
PPPFIOA	1B8	
PPPFIOBK	1B0	
PPPFLAG1	150	
PPPFLAG2	151	
PPPFLAG3	152	
PPPFLAG4	17C	
PPPFLAG5	17D	
PPPFLAG6	17E	
PPPFLAG7	17F	
PPPFLAG8	18D	
PPPFLC38	66E	
PPPFPDDB	1BC	
PPPFWSWR	1C0	
PPPHRSN	430	
PPPIIOB	61C	
PPPIIOB2	1EC	
PPPIMDTE	64C	
PPPIOTAD	458	
PPPIOTTK	4E6	



Table 125. Cross Reference for \$PPWORK (continued)

Name	Offset	Hex Tag
PPPJCTAD	690	
PPPJCTBF	170	
PPPJKEY	606	
PPPJOAA	528	
PPPJOEFL	182	
PPPJSWBT	1D8	
PPPKEY	606	
PPPKYLST	1D0	
PPPLCCNT	4B4	
PPPLCCWA	174	
PPPLCCWO	178	
PPPLEBOF	4C5	
PPPLEBTK	4E0	
PPPLEN	7F0	6A0
PPPLIST	6C8	
PPPLIST_PL_END	6CC	6E4
PPPLIST_XDELIMITER_ADDR	6E0	
PPPLIST_XONECHAR_ADDR	6DC	
PPPLIST_XPARAMAREA1	6C8	
PPPLIST_XPARAMAREA2	6CC	
PPPLIST_XPATTERNSTR_ADDR	6C8	
PPPLIST_XPATTERNSTRLEN	6CC	
PPPLIST_XPPDELIMITER_ADDR	6DC	
PPPLIST_XPPONECHAR_ADDR	6D8	
PPPLIST_XPPPATTERNINFO_ADDR	6C8	
PPPLIST_XPPPATTERNSTR_ADDR	6CC	
PPPLIST_XPPPATTERNSTRLEN	6D0	
PPPLIST_XPPSTRING_ADDR	6CC	
PPPLIST_XPPSTRINGLEN	6D0	
PPPLIST_XPPZEROORMORE_ADDR	6D4	
PPPLIST_XSTRING_ADDR	6D0	
PPPLIST_XSTRINGLEN	6D4	
PPPLIST_XZEROORMORE_ADDR	6D8	
PPPLISTL	6E4	1C
PPPLNCTR	586	
PPPLNDSP	580	
PPPLNECT	510	
PPPLOGST	69C	
PPPLSAVE	50C	



Table 125. Cross Reference for \$PPWORK (continued)

Name	Offset	Hex Tag
PPPL3625	589	
PPPMEST	1E0	
PPPMESZ	1DE	
PPPMOSZ	1DC	
PPPMQTCR	416	
PPPMQTDG	410	
PPPMSFCB	58C	594
PPPMSFRM	58C	58C
PPPMMSG	58C	
PPPMSUCS	58C	598
PPPNBLK	658	
PPPNSWB	1A8	
PPPNUM38	41C	
PPPNXTCL	63C	
PPPOCCWP	620	
PPPOCCWS	624	
PPPOILNL	7E4	
PPPOIOB	618	
PPPPAGCT	4B8	
PPPPAGNM	4CC	
PPPPCC38	665	
PPPPDDBA	694	
PPPPDIRI	19F	
PPPPPLC	514	
PPPPPLC2	518	
PPPPNUMR	198	
PPPPQH38	650	
PPPPRFLC	66F	
PPPPSC38	664	
PPPPUBFO	588	
PPPPURCB	586	
PPPRATAD	650	
PPPRBFAV	18C	
PPPRCBSV	188	
PPPRECNM	4C8	
PPPRESF	1AC	
PPPRMSEL	17A	
PPPRSC38	58A	
PPPSAVDF	181	



Table 125. Cross Reference for \$PPWORK (continued)

Name	Offset	Hex Tag
PPPSBMPL	1E4	
PPPSBRST	604	80
PPPSCHR1	5E8	
PPPSCHR2	5EC	
PPPSCHR3	5F0	
PPPSCHR4	5F4	
PPPSCOPN	603	
PPPSEGID	1F8	
PPPSEPPG	1AD	
PPPSESSA	1A4	
PPPSFCB	5E4	
PPPSFLSC	600	
PPPSFLSH	5F8	
PPPSFL38	604	
PPPSFORM	5DC	
PPPSMFBF	65C	
PPPSMFPQ	660	
PPPSMODI	5FC	
PPPSMODT	601	
PPPSNFLS	604	10
PPSPCMD	604	8
PPSPCTR	1AE	
PPPSREXM	604	40
PPSSCOP	602	
PPPSSEP	604	20
PPSSRWK	460	
PPPSWBIT	1C4	
PPPSWBRC	42A	
PPPSWBRS	42C	
PPPS6DCI	153	
PPPTIMON	160	
PPPTRBFT	644	
PPPTRC38	58B	
PPPTUADR	1D4	
PPPTURET	1C8	
PPPTUSPL	1CC	
PPPTUSUM	1AA	
PPPTUSZ	1E8	
PPPUCB	158	



Table 125. Cross Reference for \$PPPWORK (continued)

Name	Offset	Hex Tag
PPPUCCW	15C	
PPPWKFCB	574	
PPPWKFRM	52C	
PPPWKJOE	524	
PPPWKPTN	424	
PPPWKUCS	578	
PPPWKWFM	534	
PPPWRK18	6E4	6E4
PPXPARM	420	
PPPXTCCW	15C	
PPP1DRER	150	4
PPP1FNCI	150	8
PPP1JIRE	150	2
PPP1NSKP	150	20
PPP1SUSP	150	40
PPP1TERM	150	10
PPP1WRTS	150	80
PPP2CKPA	151	10
PPP2CKPN	151	20
PPP2FDS	151	2
PPP2OPTJ	151	4
PPP2PCIW	151	8
PPP2READ	151	40
PPP2SMFE	151	1
PPP2TCEL	151	80
PPP3CKRP	152	8
PPP3CKRS	152	2
PPP3CKSU	152	4
PPP3CK38	152	10
PPP3INIT	152	1
PPP3NAVL	152	20
PPP3RECV	152	40
PPP3TRNC	152	80
PPP3211I	17B	
PPP4CALL	17C	1
PPP4EX15	17C	20
PPP4FAUT	17C	2
PPP4FPRD	17C	4
PPP4PS38	17C	80



Table 125. Cross Reference for \$PPPWORK (continued)

Name	Offset	Hex Tag
PPP4QSMF	17C	8
PPP4RPBS	17C	10
PPP43081	17C	40
PPP5AUTF	17D	2
PPP5DSOP	17D	80
PPP5IDSK	17D	20
PPP5IJBK	17D	40
PPP5IMTT	17D	8
PPP5IOER	17D	10
PPP5OJOE	17D	4
PPP5T185	17D	1
PPP6ABND	17E	1
PPP6BFER	17E	8
PPP6DSMR	17E	4
PPP6LERR	17E	80
PPP6MRGR	17E	2
PPP6NEWS	17E	40
PPP6NODS	17E	10
PPP6SWBD	17E	20
PPP7RTRI	17F	80
PPP7SMFU	17F	20
PPP7SMRC	17F	40
PPP7TRAN	17F	10
PPP7TRLR	17F	4
PPP71PPF	17F	8
PPP8ENCS	18D	40
PPP8ENCV	18D	80

## \$PQE information

### \$PQE programming interface information

\$PQE is a programming interface.

### \$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 PQELEN

**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  
PQEC PQED 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 mapping

Table 126. Structure PQE

Offset Dec	Offset Hex	Type	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
		1... ..		PQEC	"B'10000000'" CHECKPOINT PQE G38E
		.1... ..		PQES	"B'01000000'" SMF TYPE 6 PQE G38E
		..1. ....		PQEJ	"B'00100000'" JOB START PQE G38E
		...1 ....		PQED	"B'00010000'" DATA SET PQE G38E
13	(D)	BITSTRING	1	PQESPEC(0)	START OF SPECIFIC SECTION G38E
PQE FIELDS -- USED AS A CHECKPOINT ENTRY G38E					
13	(D)	BITSTRING	1	PQECFLAG	CHECKPOINT PQE FLAG G38E
		1... ..		PQECFPG	"B'10000000'" FIRST PAGE OF DATA SET G38E
		.1... ..		PQECLPG	"B'01000000'" LAST PAGE OF DATA SET G38E
		..1. ....		PQECBSP	"B'00100000'" PQE SAVED FOR BACKSPACE G38E
14	(E)	SIGNED	2	PQECPGID	CHANNEL PAGE ID G38E
16	(10)	SIGNED	4	PQESENS(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	PQEC PQED	ADDRESS OF DATA SET PQE G38E
24	(18)	SIGNED	4	PQECPPCT	PDDb LOGICAL PAGE COUNT G38E



Table 126. Structure PQE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
28	(1C)	SIGNED	4	PQECTLNC	TOTAL JOE LINE COUNT G38E
32	(20)	SIGNED	4	PQECTPCT	TOTAL JOE PAGE COUNT G38E
36	(24)	BITSTRING	6	PQECMQTR	Track address (MQTR) of spool data.
42	(2A)	BITSTRING	2		Reserved
44	(2C)	SIGNED	4	PQECRECN	# RECORDS PRINTED SO FAR G38E
48	(30)	SIGNED	2	PQECJRCB	DISP INTO EJECT BUFFER G38E
PQE FIELDS -- USED AS AN SMF TYPE 6 PQE G38E					
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
PQE FIELDS -- USED AS A JOB START PQE G38E					
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
PQE FIELDS -- USED AS A DATA SET PQE G38E					
13	(D)	BITSTRING	1	PQEDCOPY	COPY NUMBER IN PROGRESS G38E
14	(E)	BITSTRING	1	PQEDCPYG	OFFSET INTO COPY GROUP G38E
15	(F)	BITSTRING	1	PQEDTND	TOTAL JOE DATA SET COUNT G38E
16	(10)	SIGNED	4	PQEDWJOE	ADDRESS OF WORK JOE G38E
20	(14)	BITSTRING	6	PQEDIOTK	Current IOT track address (MQTR).
26	(1A)	BITSTRING	2		Reserved
28	(1C)	SIGNED	4	PQEDJBNO	Job number
32	(20)	BITSTRING	4	PQEDJKEY	JOB IDENTIFIER KEY G38E
36	(24)	SIGNED	2	PQEDPDD	DISP OF PDD INTO IOT G38E
38	(26)	BITSTRING	1	PQEDCGCT	COPY GROUP CT FOR DATA SET G38E
39	(27)	BITSTRING	1	PQEDFLAG	DATA SET PQE FLAG BYTE G38E
	1... ..			PQEDLAST	"B'10000000" LAST DATA SET OF JOE G38E
	.1.. ....			PQEDCAN	"B'01000000" JOE CANCELLED G38E
	..1. ....			PQEDINT	"B'00100000" JOE INTERRUPTED G38E
	...1 ....			PQEDRPT	"B'00010000" JOE REPEATED G38E
	.... 1...			PQEDRST	"B'00001000" JOE RESTARTED G38E
	.... .1..			PQEDALOC	"B'00000100" ALLOCATION IOT G38E
	.... ..1.			PQEDCJP	"B'00000010" JOE CANCELLED BY \$CJP
	.... ...1			PQEDADD	"B'00000001" JOE ADDED FOR \$EPRT
40	(28)	BITSTRING	8	PQEDCGRP	DATASET COPY GROUPS
48	(30)	BITSTRING	1	PQEDSCPY	DATASET COPY COUNT
49	(31)	BITSTRING	4	PQEDSKEY	DATASET KEY



Table 126. Structure PQE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
53	(35)	BITSTRING	2	PQEDSINS	Dataset multi-dest instance
55	(37)	BITSTRING	2	PQEDSORT	Sort key generation field (low order two bytes of PDBCRTME)
57	(39)	CHARACTER	64	PQEDJCOR	Job Correlator
121	(79)	BITSTRING	1	PQEFLAGF	FREE PQE INDICATOR
	1111 1111			PQEFFREE	"X'FF'" ON FREE QUEUE
124	(7C)	SIGNED	4	PQEEND(0)	END OF PQEC G38E
124	(7C)	X'C'	0	PQEDATA	"PQETYPE,PQEEND-PQETYPE" START OF PQE DATA
124	(7C)	X'7C'	0	PQELENG	"PQEEND-PQE" LENGTH OF PQEC G38E

Table 127. Cross Reference for \$PQE

Name	Offset	Hex	Tag
PQE	0		
PQEC	C		80
PQECBSP	D		20
PQECFLAG	D		
PQECFPG	D		80
PQECJRCB	30		
PQECLPG	D		40
PQECMQTR	24		
PQECPGID	E		
PQECPPCT	18		
PQEC PQED	14		
PQECRECN	2C		
PQECSSENS	10		
PQECTLNC	1C		
PQECTPCT	20		
PQED	C		10
PQEDADD	27		1
PQEDALOC	27		4
PQEDATA	7C		C
PQEDCAN	27		40
PQEDCGCT	26		
PQEDCGRP	28		
PQEDCJP	27		2
PQEDCOPY	D		
PQEDCPYG	E		
PQEDFLAG	27		
PQEDINT	27		20
PQEDIOTK	14		



Table 127. Cross Reference for \$PQE (continued)

Name	Offset	Hex Tag
PQEDJBNO	1C	
PQEDJCOR	39	
PQEDJKEY	20	
PQEDLAST	27	80
PQEDPDDb	24	
PQEDRPT	27	10
PQEDRST	27	8
PQEDSCP Y	30	
PQEDSINS	35	
PQEDSKEY	31	
PQEDSORT	37	
PQEDTNDS	F	
PQEDWJOE	10	
PQEEND	7C	
PQEFCBLN	12	
PQEFFREE	79	FF
PQEFLAGF	79	
PQEHDR	8	
PQEJ	C	20
PQEJNEXT	18	
PQEWJOE	14	
PQELENG	7C	7C
PQENEXT	0	
PQEPREV	4	
PQERPGID	10	
PQES	C	40
PQESBUF	14	
PQESPEC	D	
PQETYPE	C	

## \$PREBERT information

### \$PREBERT heading information

<b>Common name:</b>	Prefix for BERT processing
<b>Macro ID:</b>	\$PREBERT
<b>DSECT name:</b>	PREBERT and PBEUSER
<b>Owning component:</b>	JES2 (SC1BH)



<b>Eye-catcher ID:</b>	Varies according to block being mapped Offset: 0 Length: 4
<b>Storage attributes:</b>	Subpool: 0 Key: 1 or 8 (Depends upon whether the control block following this prefix is READONLY or UPDATE Residency: JES2 address space, above or below the line
<b>Size:</b>	See PBESIZE and PBEUSIZE
<b>Created by:</b>	Any service routine which in turn uses the \$DOGBERT service routine.
<b>Pointed to by:</b>	\$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
<b>Serialization:</b>	None
<b>Function:</b>	The PREBERT is used by the \$DOGBERT service to control and record access to data in the BERT. The PBEUSER is used by \$DOGBERT service to control stack of users using a given PREBERT in UPDATE mode.

## \$PREBERT mapping

Table 128. Structure PREBERT

Offset Dec	Offset Hex	Type	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	1	PBEUSERS	Owner information (see PBEUSER DSECT for mapping)
PBEPCE points to the PCE that owns this element. If the high bit is on in the word, that indicates that TERM should never free this if the PCE ABENDs. This is because the PCE may be serving multiple non-main task requestors.					
28	(1C)	ADDRESS	4	PBEPCE	PCE address or zero
		1... ..		PBEPCED	"X'80'" If set in PBEPCE, then PCE has been DETACHed
28	(1C)	X'1C'	0	PBETCB	"PBEPCE,4,C'A'" TCB addr if not main task
32	(20)		1	PBETOKEN	Owning TTOKEN (if \$JQESERV)
48	(30)	SIGNED	4	PBEINDEX	Index into CTENT for block
52	(34)	SIGNED	4	PBEINDEX2	2ndary control block index
56	(38)	ADDRESS	4	PBENEXT	Address of next PREBERT on PCE chain
60	(3C)	ADDRESS	4	PBEPREV	Address of previous PREBERT on PCE chain
64	(40)		1	PBEPWAIT	Time PCE last \$WAITed when \$DOGBERT called for FETCH - or - Time PCE ABENDED while owning the BERT lock



Table 128. Structure PREBERT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
80	(50)	BITSTRING	1	PBEUSEQ	Update sequence field (managed by \$DOGBERT)
81	(51)	BITSTRING	1	PBEDGBF1	In line flag \$DGBFLAG moved here if \$DGB2PBE on
DGBWAIT EQU B'10000000' \$WAIT is allowed DGBQSUS EQU B'01000000' Get the queues DGBUPDT EQU B'00100000' Update access needed DGBNAME EQU B'00010000' NAME= was passed DGBTOKN EQU B'00001000' TOKEN= was passed DGBSPEC EQU B'00000100' SPECIAL=YES was specified DGBNUPD EQU B'00000010' No write update requested DGBNRDD EQU B'00000001' No read data requested					
82	(52)	BITSTRING	1	PBEDGBF2	In line flag \$DGBFLG2 moved here if \$DGB2PBE on
DGB2CRE EQU B'10000000' ACTION=(,CREATE) spec DGB2UNK EQU B'01000000' CB type unknown DGB2PAD EQU B'00100000' ACTION=(CKPT,PAD) DGB2PBE EQU B'00010000' Reserved DGB2NEV EQU B'00001000' MOREBERTS=NEVER					
83	(53)	BITSTRING	1	PBEMVERS	\$MSTRVER level when built
84	(54)	BITSTRING	1	PBEFLAG1	Access flags (managed by DOGBERT, INIT, and TERM)
		1... ..		PBE1UPDT	"B'10000000'" UPDATE mode
		.1.. ..		PBE1READ	"B'01000000'" READ mode
		..1. ....		PBE1SPEC	"B'00100000'" SPECIAL mode
		...1 ....		PBE1DOGB	"B'00010000'" DOGBERT used to construct block
		.... 1...		PBE1NEWB	"B'00001000'" New BERT was obtained
		.... .1..		PBE1ABND	"B'00000100'" Owned by ABENDING PCE
		.... ..1.		PBE1FRST	"B'00000010'" 1st pre-exist BERT count
		.... ...1		PBE1PAD	"B'00000001'" Retain maximum BERTs
85	(55)	BITSTRING	1	PBEFLAG2	Flags (managed by services at a higher level than DOGBERT)
		1... ..		PBE2UPDT	"B'10000000'" Data orig. update mode
		.1.. ..		PBE2PSEU	"B'01000000'" Pseudo-BERT (does not contain real BERT data)
		..1. ....		PBE2FREB	"B'00100000'" BERT lock freed via (MANAGELOCK,RELEASE)
		...1 ....		PBE2LONG	"B'00010000'" GETWORK area includes JQO
		.... 1...		PBE2EMPT	"B'00001000'" Block following is empty
		.... .1..		PBE2FREE	"B'00000100'" Memory for block freed
		.... ...1		PBE2DSTK	"B'00000001'" When creating a stack element, turn on PBEU1PCE
DOGDJB managed bits					
		1... ..		PBE2CACH	"B'10000000'" DJB in read cache
		.1.. ..		PBE2INV	"B'01000000'" Cached DJB invalidated
		..1. ....		PBE2PXEQ	"B'00100000'" Pretend job in family is executing
		...1 ....		PBE2CACE	"B'00010000'" DJB eligible for caching



Table 128. Structure PREBERT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
86	(56)	BITSTRING	1	PBEBTYPE	BERT type (same as BRTTYPE)
87	(57)	BITSTRING	1	PBEFLAG3	Flags (managed by services at a higher level than DOGBERT)
		1... ....		PBE3QPSY	"B'10000000'" Perform QPOST when JQA returned no matter what
		.1.. ....		PBE3#PSY	"B'01000000'" Perform \$#POST when JQA returned no matter what
		..1. ....		PBE3#KPJ	"B'00100000'" \$#POST to be done with CLEAR_JWEL=NO
		...1 ....		PBE3#JOT	"B'00010000'" \$#POST required to manage JOECRTME
		.... 1...		PBE3CTCI	"B'00001000'" 'CAT Cache' element indicator. Denotes if an element in the 'CAT Cache' is a CAT(OFF) or a GRPOBJ(ON). See \$CAT 'CAT Cache' info.
		.... .1..		PBE3ALLQ	"B'00000100'" If PBE2PSEU=ON, this indicates if \$DOGCAT/ CATREAD is processing 'Pseudo CATs' ( NON-execution queues ) for ALLQUES=YES.
		.... ..1.		PB3PRIV	"B'00000010'" Privileged resource
88	(58)	SIGNED	2	PBEDLEN	Size of the BERT data area
90	(5A)	BITSTRING	1	PBEFLAG4	Concurrent set flags
		1... ....		PBE4SCSP	"B'10000000'" Skip concurrent set post processing
		.1.. ....		PBE4DCSP	"B'01000000'" Do concurrent set processing in DILBERT
		..1. ....		PBE4FCSP	"B'00100000'" Force concurrent set processing in DILBERT
91	(5B)	BITSTRING	1	PBE#FBRT	Num BERTs at DOGBERT FETCH or FETCHNEXT
92	(5C)	SIGNED	4	PBE#BRTS	Number of BERTs used to store this block's data Odd bndry for non-atomic
92	(5C)	X'60'	0	PBEDATA	"*" Beginning of actual data
92	(5C)	X'60'	0	PBESIZE	"*-PREBERT"

Table 129. Structure PBEUSER

Offset Dec	Offset Hex	Type	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
		1... ....		PBEU1USE	"B'10000000'" User block in use
		.1.. ....		PBEU1PCE	"B'01000000'" An existing PREBERT for this PCE was used
		..1. ....		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



Table 130. Cross Reference for \$PREBERT

Name	Offset	Hex Tag
PBE#BRTS	5C	
PBE#FBRT	5B	
PBEBTYPE	56	
PBEDATA	5C	60
PBEDGBF1	51	
PBEDGBF2	52	
PBEDLEN	58	
PBEFLAG1	54	
PBEFLAG2	55	
PBEFLAG3	57	
PBEFLAG4	5A	
PBEID	0	
PBEINDEX	30	
PBEINDX2	34	
PBEMVERS	53	
PBENEXT	38	
PBEPCE	1C	
PBEPCED	1C	80
PBEPREV	3C	
PBEPWAIT	40	
PBESIZE	5C	60
PBETCB	1C	1C
PBETOKEN	4	
PBETTOKN	20	
PBEUEXID	11	
PBEUFLG1	10	
PBEUID	0	D7E4E2D9
PBEULINK	C	
PBEUPBE	8	
PBEUPBEU	4	
PBEUSEQ	50	
PBEUSER	0	
PBEUSERS	8	
PBEUSIZE	12	14
PBEU1PCE	10	40
PBEU1RD	10	20
PBEU1USE	10	80
PBE1ABND	54	4
PBE1DOGB	54	10



Table 130. Cross Reference for \$PREBERT (continued)

Name	Offset	Hex Tag
PBE1FRST	54	2
PBE1NEWB	54	8
PBE1PAD	54	1
PBE1READ	54	40
PBE1SPEC	54	20
PBE1UPDT	54	80
PBE2CACE	55	10
PBE2CACH	55	80
PBE2DSTK	55	1
PBE2EMPT	55	8
PBE2FREB	55	20
PBE2FREE	55	4
PBE2INV	55	40
PBE2LONG	55	10
PBE2PSEU	55	40
PBE2PXEQ	55	20
PBE2UPDT	55	80
PBE3#JOT	57	10
PBE3#KPJ	57	20
PBE3#PSY	57	40
PBE3ALLQ	57	4
PBE3CTCI	57	8
PBE3QPSY	57	80
PBE4DCSP	5A	40
PBE4FCSP	5A	20
PBE4SCSP	5A	80
PB3PRIV	57	2
PREBERT	0	

## \$PRGWORK information

### \$PRGWORK programming interface information

\$PRGWORK is a programming interface.

### \$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 mapping

Table 131. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	ADDRESS	4	PRGWPRM	NODE TABLE ADDRESS
340	(154)	ADDRESS	4		CONTROL BLOCK ADDRESS
344	(158)	ADDRESS	4		ADDRESS OF JQE
348	(15C)	ADDRESS	1		QUEUE TYPE SPECIFIED
349	(15D)	ADDRESS	1		WORK SELECTION TYPE FLAG
350	(15E)	ADDRESS	1		Response byte flags
351	(15F)	ADDRESS	1		Reserved
351	(15F)	X'150'	0	PRGWLST	"PRGWPRM,*-PRGWPRM" QGET PARAMETER LIST STORAGE
352	(160)	SIGNED	4	PRGBLD(0)	Control block ID
356	(164)	BITSTRING	4		Console ID
360	(168)	ADDRESS	4		Address of the CART
364	(16C)	ADDRESS	4		Pointer for JOBID
368	(170)	ADDRESS	4		Control block address



Table 131. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
372	(174)	ADDRESS	4		Display routine address
376	(178)	ADDRESS	4	(6)	6 word work area
400	(190)	ADDRESS	4		Caller's R11 value
404	(194)	BITSTRING	2		ROUT code for Message
406	(196)	BITSTRING	2		Not used
408	(198)	CHARACTER	4		Message ID
412	(19C)	CHARACTER	1		Separator character
413	(19D)	ADDRESS	1		Flag byte 1
414	(19E)	ADDRESS	1		'DISPER'
415	(19F)	ADDRESS	1		Flag byte 2
416	(1A0)	ADDRESS	1		Flag byte 3
417	(1A1)	ADDRESS	1		Severity of message
418	(1A2)	CHARACTER	8		Symbolic name of dest.
426	(1AA)	BITSTRING	14		Not used
440	(1B8)	ADDRESS	4	(0)	Ensure multiple of 4
440	(1B8)	ADDRESS	2	(0)	
440	(1B8)	BITSTRING	1	PRGFLAG1	Flags
	1... ....			PRG1DUPL	"B'10000000" Job held for duplicate jobname at least once
	.1.. ....			PRG1JCTR	"B'01000000" The JCT for the currently purging job has been read
	..1. ....			PRG1LSPN	"B'00100000" Job went thru unspun
	...1 ....			PRG1XWTR	"B'00010000" At lease one work JOE was removed by external dev.
	.... 1...			PRG1EXJO	"B'00001000" Exited JOE loop early
441	(1B9)	BITSTRING	1	PRGJQEF	JQEFLAG1 saved here
442	(1BA)	BITSTRING	1	PRGJQEF5	JQEFLAG5 saved here
443	(1BB)	BITSTRING	1		Reserved
444	(1BC)	ADDRESS	4	PRGSNFL	Anchor for MTT list
448	(1C0)	CHARACTER	64	PRGJCOR	Job correlator for SMF
512	(200)	ADDRESS	8	PRGRGDC	Resource group pointer
520	(208)	DBL WORD	8	(0)	Ensure double word length
520	(208)	X'B8'	0	PRGWLEN	"*-PCEWORK" WORK AREA LENGTH

Table 132. Cross Reference for \$PRGWORK

Name	Offset	Hex Tag
PCE	0	
PRGBLD	160	C2D3C440
PRGFLAG1	1B8	
PRGJCOR	1C0	
PRGJQEF	1B9	
PRGJQEF5	1BA	
PRGRGDC	200	
PRGSNFL	1BC	
PRGWLEN	208	B8



Table 132. Cross Reference for \$PRGWORK (continued)

Name	Offset	Hex Tag
PRGWLST	15F	150
PRGWPRM	150	
PRG1DUPL	1B8	80
PRG1EXJO	1B8	8
PRG1JCTR	1B8	40
PRG1LSPN	1B8	20
PRG1XWTR	1B8	10

## \$PSO information

### \$PSO heading information

<b>Common name:</b>	HASP Process Sysout Work Area DSECT
<b>Macro ID:</b>	\$PSO
<b>DSECT name:</b>	PSO
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'\$PSO' Offset: PSOID-PSO Length: 4
<b>Storage attributes:</b>	Subpool: n/a Key: 1 Residency: In the jesxPSO data space
<b>Size:</b>	See PSOLNGTH
<b>Created by:</b>	Process Sysout Subsystem Interface code running in the requestor's address space.
<b>Pointed to by:</b>	SJBPSO field of the \$SJB data area CCTPSO field of the \$HCCT data area PSONEXT field of the \$PSO data area MTRBPARM field of the \$MTRB data area
<b>Serialization:</b>	Compare and Swap
<b>Function:</b>	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 mapping

Table 133. Structure PSO

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PSO	PSO PARAMETER LIST DSECT
0	(0)	CHARACTER	4	PSOID	Eye catcher
4	(4)	ADDRESS	4	PSONEXT	Addr of next PSO on queue



Table 133. Structure PSO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	SIGNED	4	PSOCDRT	ELIGIBILITY CUT-OFF DATE
12	(C)	BITSTRING	1	PSOPFLAG	FLAG USED BY PSO PROCESSOR
		1... ..		PSOPFSWT	"B'10000000'" READ BOTH IOT CHAINS
		.1.. ..		PSOPFREQ	"B'01000000'" NEW SELECTION REQUIREMENTS
		..1. ....		PSOPRSLM	"B'00100000'" Resource limit error
		.... 1...		PSOPFHLD	"B'00001000'" HOLD AT UNALLOC SPECIFIED
		.... .1..		PSOPFDAU	"B'00000100'" PROCESSING A DAUGHTER CHAIN
		.... ..1.		PSOPFACT	"B'00000010'" Accounting cell addr valid
		.... ...1		PSOPFUSR	"B'00000001'" Userid included in PSODEST
13	(D)	BITSTRING	1	PSOPFLG2	Flag used by PSO processor
		1... ..		PSOP2E58	"B'10000000'" ENF58 Select issued, ENF58 Deselect not yet issued
14	(E)	BITSTRING	2		Reserved for future use
16	(10)	BITSTRING	960	PSOPDDB	Work area for Pddb
978	(3D2)	BITSTRING	1	PSOUFLG	GROUP REQUEST OPTIONS BYTE
979	(3D3)	CHARACTER	1		RESERVED
980	(3D4)	BITSTRING	1	PSOFLG1	DATA SET SELECTION CONTROL FLAGS
981	(3D5)	BITSTRING	1	PSOFLG2	DATA SET DISPOSITION AND CTL FLAGS
982	(3D6)	SIGNED	2	PSOCOPY	NUMBER OF DATA SET COPIES
984	(3D8)	CHARACTER	8	PSOJOBIN	JOB NAME
992	(3E0)	CHARACTER	8	PSOJOBID	HASP JOB ID (JOBNNNNN)
1000	(3E8)	CHARACTER	1	PSOCLS	NEW SYSOUT CLASS (GROUP REQ ONLY)
1001	(3E9)	SIGNED	2	PSOMLRL	Maximum Logical record length
<p>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.</p> <p>With OY64290, userid is now allowed:</p> <ul style="list-style-type: none"> <li>- If SSSOUSER is ON and PSOPFUSR is OFF, the userid in PSOPGMN is for a TSO RECEIVE call.</li> <li>- If both PSOPFUSR and SSSOUSER are ON, then the userid in PSOPGMN is the userid included in the input destination SSSODEST/PSODEST.</li> </ul>					
1003	(3EB)	BITSTRING	1	PSOFLGA	Flag byte
1004	(3EC)	CHARACTER	8	PSODEST	REMOTE USER ID FOR SELECTION
1012	(3F4)	CHARACTER	8	PSOPGMN	USER WRITER NAME
1020	(3FC)	CHARACTER	8	PSORBA	RBA OF SYSOUT DATA SET
1028	(404)	CHARACTER	44	PSODSN	SYSOUT DATA SET NAME
1072	(430)	CHARACTER	4	PSOFORM	DATA SET FORM NAME (first 4 bytes if 8 byte form name)
1076	(434)	CHARACTER	8	PSOCLAS	CLASS(ES) TO BE PROCESSED
1084	(43C)	ADDRESS	4	PSOWTRC	ADDR OF XWTR PARAMETER LIST
1088	(440)	CHARACTER	8	PSODSID	DATA SET IDENT CHAR STRING
<p>PROCESS SYSOUT EXTENSION (This section is present if flag SSSOPSEE is on in byte PSOFLG2)</p>					



Table 133. Structure PSO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1088	(440)	X'448'	0	PS0PSE	"*" PROCESS SYSOUT EXTENSION
1096	(448)	BITSTRING	1	PS0FLG3	BDT CONTROL BYTE
1097	(449)	BITSTRING	1	PS0FLG4	USER JOB OPTION FLAG
<p>The first release of support for security tokens provided the field SSS0SECT 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.</p> <p>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 SSS0SECT be used for TOKENMAP by setting SSS0TKNR.</p> <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 SSS0TKNG that says it did so.</p> <p>If the process sysout user does not ask for this service, (by not setting SSS0TKNR), the JES will copy the token to the address specified in SSS0SECT assuming that the length of the area is the same as the SAF version one token length</p>					
1098	(44A)	BITSTRING	1	PS0FLG5	Flags
1099	(44B)	BITSTRING	1	PS0FLG8	Encryption control flags
	1... ....			PS0F8EV	"B'10000000'" Encryption validation err
	.1.. ....			PS0F8ES	"B'01000000'" Encryption services error
1100	(44C)	CHARACTER	8		JES3 use only
1108	(454)	SIGNED	4	PS0LNCT	DATASET LINE COUNT
1112	(458)	CHARACTER	8	PS0PRCD	DATASET PROC NAME
1120	(460)	CHARACTER	8	PS0STPD	DATASET STEP NAME
1128	(468)	CHARACTER	8	PS0DDND	DATASET DD NAME
1136	(470)	ADDRESS	4	PS0SECT	Address of SAF token
1140	(474)	CHARACTER	8	PS0FOR8	Form number
1148	(47C)	ADDRESS	4	PS0ACCT	Address of acctng string
<p>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 SSS0GNVA (in SSS0FLG5) is set if the field is valid.</p> <p>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 (SSS0UFLG on) and data set characteristics are changed (via a non-zero SSS0UFLG).</p>					
1152	(480)	CHARACTER	26	PS00GNM	JES2 output group name
1178	(49A)	BITSTRING	2		Reserved
1180	(49C)	ADDRESS	4	PS0TCB	TCB ADDRESS OF LAST PSO USER
1184	(4A0)	BITSTRING	4	PS0RETN	SUB-SYSTEM RETURN CODE
1188	(4A4)	BITSTRING	6	PS0IOTTK	Track address (MQTR) of IOT
1194	(4AA)	BITSTRING	2		Reserved



Table 133. Structure PSO (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1196	(4AC)	BITSTRING	6	PSOIOTCH	MQTR FOR IOT CHAIN
1202	(4B2)	BITSTRING	2		Reserved
1204	(4B4)	ADDRESS	4	PSOSJB	ADDRESS OF SJB
1208	(4B8)	ADDRESS	4	PSOECBP	Address of ECB for JOT WAIT
1212	(4BC)	BITSTRING	4	PSORDRON	TIME ON INPUT PROCESSOR
1216	(4C0)	BITSTRING	4	PSORDTON	DATE ON INPUT PROCESSOR
1220	(4C4)	CHARACTER	8	PSOUSEID	JMR installation data field
1228	(4CC)	ADDRESS	4	PSOWKOFF	OFFSET OF WORK JOE
1232	(4D0)	ADDRESS	4	PSOCHOFF	OFFSET OF CHAR JOE
1236	(4D4)	BITSTRING	1	PSOJOEFL	COPY OF JOEFLAG1
1237	(4D5)	BITSTRING	1	PSOFLGR	DATA SET SECURITY ATTR FLGS
		1... ..		PSORSEL	"B'10000000'" SELECT REQUEST (NON-DISP)
1238	(4D6)	CHARACTER	1	PSOMCLAS	MESSAGE CLASS FOR JOB
1239	(4D7)	BITSTRING	1		RESERVED FOR FUTURE USE
1240	(4D8)	BITSTRING	4	PSOJBKEY	JOB IDENTIFIER KEY
1244	(4DC)	ADDRESS	4	PSOMTRB	Address of MTRB
1248	(4E0)	ADDRESS	4	PSOPCE	Address of current or last PCE that processed
1252	(4E4)	ADDRESS	4	PSOJQEP	HASP JQE OFFSET
1256	(4E8)	SIGNED	4	PSOJBNUM	HASP job number (binary)
1260	(4EC)	SIGNED	4	PSOROUTE	SELECTION ROUTE CODE (BINARY)
1264	(4F0)	SIGNED	2	PSOHDOFF	IOT offset of selected held PDDb and held support indicator
1266	(4F2)	SIGNED	2	PSOXDOFF	IOT offset of selected non-held PDDb
1268	(4F4)	CHARACTER	80	PSOTOKEN	PSO SECURITY TOKEN FOR REQUESTOR
1348	(544)	CHARACTER	80	PSODSTOK	DATA SET TOKEN
1428	(594)	BITSTRING	148	PSOACCT2	Accounting string
1576	(628)	ADDRESS	4	PSOACTGC	Address of accounting cell
1580	(62C)	BITSTRING	2		Reserved for future use
1582	(62E)	BITSTRING	1	PSOFLG6	Flags (use CS to serialize)
		1... ..		PSO6FFGX	"B'10000000'" XWTR wait for JOT post
		.1.. ....		PSO6FFGJ	"B'01000000'" PSO wait for JOT post
1582	(62E)	X'CO'	0	PSO6FFGW	"PSO6FFGJ+PSO6FFGX" Waiting for JOT processing
		..1. ....		PSO6JWEL	"B'00100000'" A JWEL created
		...1 ....		PSO6SJID	"B'00010000'" PSO application is an STC
1583	(62F)	BITSTRING	1	PSOFLG7	Flags (use CS to serialize)
		...1 ....		PSO7ABRT	"B'00010000'" PSO request aborted
		.... 1...		PSO7XPST	"B'00001000'" Application has been POSTed
		.... .1..		PSO7PCE	"B'00000100'" PCE is processing
1584	(630)	BITSTRING	8	PSOASCBT	Address space token
1592	(638)	SIGNED	2	PSOASID	Address space ID
1594	(63A)	BITSTRING	2		Reserved
1596	(63C)	ADDRESS	4	PSOSDB	SDB address
1600	(640)	CHARACTER	8	PSOJOBID	Job ID of PSO application



Table 133. Structure PSO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1608	(648)	CHARACTER	8	PSOJOBNM	Job name of PSO applicaiton
1616	(650)	CHARACTER	8	PSOCHKEY	CHKEY from CSCB
Resource management entry for JOEs mapped by LRMENTRY in \$RESGRP.					
1624	(658)	DBL WORD	8	(0)	
1624	(658)	BITSTRING	32	PSOJORME	JOE rsrc management entry
1656	(678)	DBL WORD	8	(0)	
1656	(678)	X'678'	0	PSOLNGTH	"*-PSO" LENGTH OF PSO DSECT

Table 134. Cross Reference for \$PSO

Name	Offset	Hex Tag
PSO	0	
PSOACCT	47C	
PSOACCT2	594	
PSOACTGC	628	
PSOASCBT	630	
PSOASID	638	
PSOCHKEY	650	
PSOCHOFF	4D0	
PSOCLAS	434	
PSOCLS	3E8	
PSOCOPY	3D6	
PSOCRDT	8	
PSODDND	468	
PSODEST	3EC	
PSODSID	440	C3C3C3C3
PSODSN	404	
PSODSTOK	544	
PSOECBP	4B8	
PSOFLGA	3EB	
PSOFLGR	4D5	
PSOFLG1	3D4	
PSOFLG2	3D5	
PSOFLG3	448	
PSOFLG4	449	
PSOFLG5	44A	
PSOFLG6	62E	
PSOFLG7	62F	
PSOFLG8	44B	
PSOFORM	430	



Table 134. Cross Reference for \$PSO (continued)

Name	Offset	Hex Tag
PSOFOR8	474	
PSOF8ES	44B	40
PSOF8EV	44B	80
PSOHD0FF	4F0	
PSOID	0	5BD7E2D6
PSOIOTCH	4AC	
PSOIOTTK	4A4	
PSOJBKEY	4D8	
PSOJBNUM	4E8	
PSOJOBI	3E0	
PSOJOBID	640	
PSOJOBN	3D8	
PSOJOBNM	648	
PSOJOEFL	4D4	
PSOJORME	658	
PSOJQEP	4E4	
PSOLNCT	454	
PSOLNGTH	678	678
PSOMCLAS	4D6	
PSOMLRL	3E9	
PSOMTRB	4DC	
PSONEXT	4	
PSOOGNM	480	
PSOPCE	4E0	
PSOPDDB	10	
PSOPFACT	C	2
PSOPFDAU	C	4
PSOPFHLD	C	8
PSOPFLAG	C	
PSOPFLG2	D	
PSOPFREQ	C	40
PSOPFSWT	C	80
PSOPFUSR	C	1
PSOPGMN	3F4	
PSOPRCD	458	
PSOPRSLM	C	20
PSOPSE	440	448
PSOP2E58	D	80
PSORBA	3FC	



Table 134. Cross Reference for \$PSO (continued)

Name	Offset	Hex Tag
PSORDRON	4BC	
PSORDTON	4C0	
PSORETN	4A0	
PSORROUTE	4EC	
PSORSEL	4D5	80
PSOSDB	63C	
PSOSECT	470	
PSOSJB	4B4	
PSOSTPD	460	
PSOTCB	49C	
PSOTOKEN	4F4	
PSOUFLG	3D2	
PSOUSEID	4C4	
PSOWKOFF	4CC	
PSOWTRC	43C	
PSOXDOFF	4F2	
PS06FFGJ	62E	40
PS06FFGW	62E	C0
PS06FFGX	62E	80
PS06JWEL	62E	20
PS06SJID	62E	10
PS07ABRT	62F	10
PS07PCE	62F	4
PS07XPST	62F	8

## \$PSOWORK information

### \$PSOWORK heading information

<b>Common name:</b>	JES2 Process SYSOUT Work Area
<b>Macro ID:</b>	\$PSOWORK
<b>DSECT name:</b>	PCE (\$PSOWORK is part of the PCE DSECT)
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'PCE ' Offset: PCEEYE-PCE Length: 4
<b>Storage attributes:</b>	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE



<b>Size:</b>	See symbol PSPWKSIZ for the length of this work area. The overall length of the PCE is stored in field PCELENG.
<b>Created by:</b>	See \$PCE
<b>Pointed to by:</b>	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. PSOPCE of the \$PSO data area
<b>Serialization:</b>	Normal PCE dispatch serialization
<b>Function:</b>	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 mapping

Table 135. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	ADDRESS	4	PSPCKPTB	OUTPUT CKPT I/O BUFFER ADDRESS
340	(154)	ADDRESS	4	PSPCHARJ	Addr of current Char JOE (only valid if SSSOSPGM is on and SSSOSCLS off in PSOFLG1)
344	(158)	BITSTRING	1	PSPMCLAS	SYSOUT MESSAGE CLASS (FROM JCT)
345	(159)	BITSTRING	1		Reserved for future use
346	(15A)	SIGNED	2	PSPWORKA	PSO PROCESSING WORK AREA
348	(15C)	SIGNED	4	PSPRSVD2	RESERVED
352	(160)	BITSTRING	3	PSPHD SCT	HELD DATA SET COUNT
355	(163)	BITSTRING	1		RESERVED
356	(164)	CHARACTER	18	PSPDEST	PSO DESTINATION WORK AREA
374	(176)	BITSTRING	12	PSPXWTR	SAVE XWTR ECB
386	(182)	BITSTRING	1	PSPFLAG1	FLAGS
	1... ..			PSP1RLSE	"B'10000000" BUFFER WAS PAGE RELEASED, HENCE NEEDS IOB BUILD
	.1.. ..			PSP1RACR	"B'01000000" RACROUTE HAS BEEN DONE
	..1. ....			PSP1FSAM	"B'00100000" PDDB is repeated
	...1 ....			PSP1JRUL	"B'00010000" SET OFF USE JOE BUILD RULE 1 SET ON USE JOE BUILD RULE 2
	.... 1...			PSP1IOTR	"B'00001000" IOT is in memory (flag bit is only valid for xwtr)
387	(183)	BITSTRING	1	PSPFLAG2	FLAGS FOR PSO QUEUE PROC
	1... ..			PSP2LQUE	"B'10000000" PROCESS LOCAL QUEUE



Table 135. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.1.. ....		PSP2UQUE	"B'01000000'" PROCESS USERID QUEUE
		..1. ....		PSP2RQUE	"B'00100000'" PROCESS REMOTE QUEUE
		...1 ....		PSP2UQP	"B'00010000'" USERID Q HAS BEEN PROCESSED
		.... 1...		PSP2RQP	"B'00001000'" REMOTE Q HAS BEEN PROCESSED
		.... .1..		PSP2CQP	"B'00000100'" CHAR Q IS BEING PROCESSED
388	(184)	ADDRESS	4	PSPBUFAD	Buffer address \$EXCP
392	(188)	DBL WORD	8	(0)	Alignment
392	(188)	BITSTRING	232	PSPRGRPM	TREGROUP Parm list
624	(270)	ADDRESS	4	PSPCLASS	Current class list address
628	(274)	ADDRESS	4	PSPCALET	and its ALET
632	(278)	BITSTRING	4	PSPJBKEY	Job key
636	(27C)	BITSTRING	4		Reserved
PSPPSO is populated just prior to \$SEAS requests. Do not use this copy of the PSO in other circumstances.					
640	(280)	DBL WORD	8	(0)	Ensure double word aligned
640	(280)	BITSTRING	1656	PSPPSO	Copy of PSO (See above)
2296	(8F8)	SIGNED	4	PSPROUTE	Selection route code (bin)
2300	(8FC)	BITSTRING	1	PSPTOKEN	Data set token field
The following fields are needed for HASP186 message.					
2380	(94C)	CHARACTER	8	PSPJOBID	Job id of PSO application
2388	(954)	CHARACTER	8	PSPJOBNM	Job name of PSO application
2396	(95C)	ADDRESS	4	PSPCHKEY	CHKEY from CSCB
End of HASP186 fields					
2400	(960)	BITSTRING	8	PSPASCBT	Application ASCB token
2408	(968)	CHARACTER	18	PSPRTXT	Reason text area for ENF58
--BLDM \$BLDMSG MF=L List form of \$BLDMSG					
2428	(97C)	SIGNED	4	PSPBLDM(0)	Control block ID
2432	(980)	BITSTRING	4		Console ID
2436	(984)	ADDRESS	4		Address of the CART
2440	(988)	ADDRESS	4		Pointer for JOBID
2444	(98C)	ADDRESS	4		Control block address
2448	(990)	ADDRESS	4		Display routine address
2452	(994)	ADDRESS	4	(6)	6 word work area
2476	(9AC)	ADDRESS	4		Caller's R11 value
2480	(9B0)	BITSTRING	2		ROUT code for Message
2482	(9B2)	BITSTRING	2		Not used
2484	(9B4)	CHARACTER	4		Message ID
2488	(9B8)	CHARACTER	1		Separator character
2489	(9B9)	ADDRESS	1		Flag byte 1



Table 135. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2490	(9BA)	ADDRESS	1		'DISPER'
2491	(9BB)	ADDRESS	1		Flag byte 2
2492	(9BC)	ADDRESS	1		Flag byte 3
2493	(9BD)	ADDRESS	1		Severity of message
2494	(9BE)	CHARACTER	8		Symbolic name of dest.
2502	(9C6)	BITSTRING	14		Not used
2516	(9D4)	ADDRESS	4	(0)	Ensure multiple of 4
2516	(9D4)	ADDRESS	2	(0)	
2520	(9D8)	DBL WORD	8	(0)	Ensure double word aligned
2520	(9D8)	X'888'	0	PSPWKSIZ	"*-PCEWORK" LENGTH OF PSO PCE WORK AREA

Table 136. Cross Reference for \$PSOWORK

Name	Offset	Hex Tag
PCE	0	
PSPASCBT	960	
PSPBLDM	97C	C2D3C440
PSPBUFAD	184	
PSPCALET	274	
PSPCHARJ	154	
PSPCHKEY	95C	
PSPCKPTB	150	
PSPCLASS	270	
PSPDEST	164	
PSPFLAG1	182	
PSPFLAG2	183	
PSPHDSCT	160	
PSPJBKEY	278	
PSPJOBID	94C	
PSPJOBNM	954	
PSPMCLAS	158	
PSPPSO	280	
PSPRGRPM	188	
PSPROUTE	8F8	
PSPRSVD2	15C	
PSPRTXT	968	
PSPTOKEN	8FC	
PSPWKSIZ	9D8	888
PSPWORKA	15A	
PSPXWTRE	176	
PSP1FSAM	182	20



Table 136. Cross Reference for \$PSOWORK (continued)

Name	Offset	Hex Tag
PSP1IOTR	182	8
PSP1JRUL	182	10
PSP1RACR	182	40
PSP1RLSE	182	80
PSP2CQP	183	4
PSP2LQUE	183	80
PSP2RQP	183	8
PSP2RQUE	183	20
PSP2UQP	183	10
PSP2UQUE	183	40

## \$PSV information

### \$PSV programming interface information

\$PSV is a programming interface.

### \$PSV heading information

<b>Common name:</b>	JES2 save area DSECT
<b>Macro ID:</b>	\$PSV
<b>DSECT name:</b>	PSV and PSVAREGS
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	SAVE, CSAV, and ARSA Offset: PSVID-PSV and PSVARID-PSVAREGS Length: L'PSVID and L'PSVARID
<b>Storage attributes:</b>	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.
<b>Size:</b>	See PSVLENG and PSVARLEN
<b>Created by:</b>	\$SAVE service
<b>Pointed to by:</b>	\$SAVAREA field of the \$HCT data area \$SAVALST 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
<b>Serialization:</b>	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 mapping**

Table 137. Structure PSV

Offset Dec	Offset Hex	Type	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)	BITSTRING	8		Reserved
The offset of the following fields are referenced in PLAS code. The offset is frozen					
80	(50)	ADDRESS	2	(0)	
80	(50)	ADDRESS	2	(0)	
80	(50)	SIGNED	4	PSVHR13	High half register 13
84	(54)	SIGNED	4	PSVHR14	High half Register 14
88	(58)	SIGNED	4	PSVHR15	High half Register 15
92	(5C)	SIGNED	4	PSVHR0	High half Register 0
96	(60)	SIGNED	4	PSVHR1	High half Register 1
100	(64)	SIGNED	4	PSVHR2	High half Register 2
104	(68)	SIGNED	4	PSVHR3	High half Register 3
108	(6C)	SIGNED	4	PSVHR4	High half Register 4
112	(70)	SIGNED	4	PSVHR5	High half Register 5
116	(74)	SIGNED	4	PSVHR6	High half Register 6
120	(78)	SIGNED	4	PSVHR7	High half Register 7
124	(7C)	SIGNED	4	PSVHR8	High half Register 8
128	(80)	SIGNED	4	PSVHR9	High half Register 9
132	(84)	SIGNED	4	PSVHR10	High half Register 10



Table 137. Structure PSV (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
136	(88)	SIGNED	4	PSVHR11	High half Register 11
140	(8C)	SIGNED	4	PSVHR12	High half Register 12
End of 144-byte save area for 64-bit applications					
144	(90)	ADDRESS	4	PSVLSPTR	LINKAGE STACK POINTER (AT TIME OF \$SAVE)
148	(94)	ADDRESS	4	PSVARPTR	Pointer to AR save area (or zero if none)
152	(98)	BITSTRING	1	PSVMODE	AR mode and key of caller Bits 0-3 - ASC mode 4-7 - PSW key
153	(99)	SIGNED	1	PSVEXID	Exit number when \$SAVE done
154	(9A)	BITSTRING	1	PSVAMODE	AMODE of caller/flags
		1... ....		PSVAM31	"B'10000000'" AMODE 31
		.1.. ....		PSVAN0\$W	"B'01000000'" \$WAITs prohibited when \$SAVE was done
		..1. ....		PSVASCAN	"B'00100000'" \$SCAN in control
		.... ...1		PSVAM64	"B'00000001'" AMODE 64
155	(9B)	BITSTRING	1		Reserved
156	(9C)	ADDRESS	4	PSVADDR	ENVIRONMENT DEPENDENT ADDRS (CSAV area in USER env.)
156	(9C)	X'9C'	0	PSVPCE	"PSVADDR,4,C'A'" PCE addr (main task only)
160	(A0)	ADDRESS	4	PSVLABAD	ADDRESS OF \$SAVE IDENTIFIER
164	(A4)	ADDRESS	4	PSVADDR2	Environ dependent addr 2 (TRX in USER environment) (\$QD for \$SUBIT routine)
168	(A8)	DBL WORD	8	PSVSTCK	Time PSV was created
168	(A8)	X'B0'	0	PSVLENG	"*-PSV" LENGTH OF SAVE AREA

Table 138. Structure PSVAREGS

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PSVAREGS	, Start of access registers
0	(0)	CHARACTER	4	PSVARID	Eyecatcher
4	(4)	ADDRESS	4	PSVARCHN	Pointer 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



Table 138. Structure PSVAREGS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
68	(44)	SIGNED	4	PSVAR15	Access register 15 storage
72	(48)	BITSTRING	1	PSVARFLG	Access register flags
		1... ....		PSVARF15	"B'10000000'" Restore access register 15
		.1... ....		PSVARF0	"B'01000000'" Restore access register 0
		..1. ....		PSVARF1	"B'00100000'" Restore access register 1
73	(49)	BITSTRING	7		Reserved
73	(49)	X'50'	0	PSVARLEN	"*-PSVAREGS" Length of access registers

Table 139. Structure PSV64

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PSV64	, Start of 64 bit save area
0	(0)	CHARACTER	4	P64EYE	Eyecatcher
4	(4)	CHARACTER	4	P64ID	Save area type
8	(8)	DBL WORD	8	P64R14	64 bit register 14 area
16	(10)	DBL WORD	8	P64R15	64 bit register 15 area
24	(18)	DBL WORD	8	P64R0	64 bit register 0 area
32	(20)	DBL WORD	8	P64R1	64 bit register 1 area
40	(28)	DBL WORD	8	P64R2	64 bit register 2 area
48	(30)	DBL WORD	8	P64R3	64 bit register 3 area
56	(38)	DBL WORD	8	P64R4	64 bit register 4 area
64	(40)	DBL WORD	8	P64R5	64 bit register 5 area
72	(48)	DBL WORD	8	P64R6	64 bit register 6 area
80	(50)	DBL WORD	8	P64R7	64 bit register 7 area
88	(58)	DBL WORD	8	P64R8	64 bit register 8 area
96	(60)	DBL WORD	8	P64R9	64 bit register 9 area
104	(68)	DBL WORD	8	P64R10	64 bit register 10 area
112	(70)	DBL WORD	8	P64R11	64 bit register 11 area
120	(78)	DBL WORD	8	P64R12	64 bit register 12 area
128	(80)	ADDRESS	8	P64PREV	Addr of previous save area
136	(88)	ADDRESS	8	P64NEXT	Addr of next save area
136	(88)	X'90'	0	P64LEN	"*-PSV64" Length of save area

Table 140. Cross Reference for \$PSV

Name	Offset	Hex	Tag
PSV	0		
PSVADDR	9C		
PSVADDR2	A4		
PSVAMODE	9A		
PSVAM31	9A		80
PSVAM64	9A		1
PSVANO\$W	9A		40



Table 140. Cross Reference for \$PSV (continued)

Name	Offset	Hex Tag
PSVARCHN	4	
PSVAREGS	0	
PSVARFLG	48	
PSVARF0	48	40
PSVARF1	48	20
PSVARF15	48	80
PSVARID	0	
PSVARLEN	49	50
PSVARPTR	94	
PSVAR0	8	
PSVAR1	C	
PSVAR10	30	
PSVAR11	34	
PSVAR12	38	
PSVAR13	3C	
PSVAR14	40	
PSVAR15	44	
PSVAR2	10	
PSVAR3	14	
PSVAR4	18	
PSVAR5	1C	
PSVAR6	20	
PSVAR7	24	
PSVAR8	28	
PSVAR9	2C	
PSVASCAN	9A	20
PSVEXID	99	
PSVHR0	5C	
PSVHR1	60	
PSVHR10	84	
PSVHR11	88	
PSVHR12	8C	
PSVHR13	50	
PSVHR14	54	
PSVHR15	58	
PSVHR2	64	
PSVHR3	68	
PSVHR4	6C	
PSVHR5	70	



Table 140. Cross Reference for \$PSV (continued)

Name	Offset	Hex Tag
PSVHR6	74	
PSVHR7	78	
PSVHR8	7C	
PSVHR9	80	
PSVID	0	C3E2C1E5
PSVLABAD	A0	
PSVLENG	A8	B0
PSVLSPTR	90	
PSVMODE	98	
PSVNEXT	8	
PSVPCE	9C	9C
PSVPREV	4	
PSVR0	14	
PSVR1	18	
PSVR10	3C	
PSVR11	40	
PSVR12	44	
PSVR14	C	
PSVR15	10	
PSVR2	1C	
PSVR3	20	
PSVR4	24	
PSVR5	28	
PSVR6	2C	
PSVR7	30	
PSVR8	34	
PSVR9	38	
PSVSTCK	A8	
PSV64	0	
P64EYE	0	
P64ID	4	
P64LEN	88	90
P64NEXT	88	
P64PREV	80	
P64R0	18	
P64R1	20	
P64R10	68	
P64R11	70	
P64R12	78	



Table 140. Cross Reference for \$PSV (continued)

Name	Offset	Hex Tag
P64R14	8	
P64R15	10	
P64R2	28	
P64R3	30	
P64R4	38	
P64R5	40	
P64R6	48	
P64R7	50	
P64R8	58	
P64R9	60	

## \$QSE information

### \$QSE programming interface information

\$QSE is a programming interface.

### \$QSE heading information

<b>Common name:</b>	Multi-access SPOOL shared communications queue control element
<b>Macro ID:</b>	\$QSE
<b>DSECT name:</b>	QSE
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	None
<b>Storage attributes:</b>	Subpool: 0 or 231 Key: 1 Residency: Virtual and Real storage are anywhere
<b>Size:</b>	See QSELEN
<b>Created by:</b>	HASPIRDA
<b>Pointed to by:</b>	\$QSE1 field of the \$HCT data area \$AQSE field of the \$HCT data area
<b>Serialization:</b>	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 mapping

Table 141. Structure QSE

Offset Dec	Offset Hex	Type	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	Member name-default SMF ID
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
Beginning of fields zeroed at all member warm start					
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
48	(30)	CHARACTER	8	QSEPLXNM	MVS sysplex name
End of fields zeroed at all member warm start					
48	(30)	X'18'	0	QSEWARM1	"QSEPLXID,*-QSEPLXID" Zeroed at all-mbr wimstart
56	(38)	CHARACTER	8	QSEMVSNM	MVS system name
Beginning of fields zeroed at all member warm start					
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
		1... ....		QSEPXEQ	"B'10000000'" Cross-system \$POST execution



Table 141. Structure QSE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1... ....		QSEPJOT	"B'01000000'" Cross-member \$#POST for JOE/JQE
EQU B'00100000' Reserved (was QSEPSOST)					
77	(4D)	BITSTRING	1	QSEJCMD	JCMD processor post
		1... ....		QSEJWRK	"B'10000000'" Batch work for JCMD
End of fields zeroed at all member warm start					
77	(4D)	X'40'	0	QSEWARM2	"QSEJ2VRN,*-QSEJ2VRN" Zeroed at all-mbr wimstart
78	(4E)	BITSTRING	1	QSESTAT	SYSTEM STATUS BYTE
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 JOE was not processed because of inability to get BERT lock. The ALICE PCE will set QSEQUICK on when all JOEs 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					
		1... ....		QSEACTIV	"B'10000000'" Member is active
		.1... ....		QSEQUICK	"B'01000000'" Member is warm started
		..1. ....		QSELAST	"B'00100000'" Last QSE
		...1 ....		QSE\$PCMD	"B'00010000'" \$P command in effect
		.... 1...		QSE\$PXEQ	"B'00001000'" \$P XEQ command in effect
		.... .1..		QSEBOSS	"B'00000100'" This member is boss
		.... ..1.		QSE\$EMEM	"B'00000010'" \$E MEMBER finished
		.... ...1		QSECKPT2	"B'00000001'" QSECPKLV is for CKPT2
79	(4F)	BITSTRING	1	QSESTAT2	ADDITIONAL SYSTEM STATUS BYTE
		1... ....		QSE2EDEL	"B'10000000'" Member deleted, ESYS'D required
		.1... ....		QSE2\$IND	"B'01000000'" Member in ind mode
		..1. ....		QSE2LRGB	"B'00100000'" Member has large (z22) size TGR entries
		...1 ....		QSE2NMAL	"B'00010000'" This member has two ckpt datasets allocated
		.... 1...		QSE2EGON	"B'00001000'" XCF system gone, ESYS,SID required



Table 141. Structure QSE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... .1..		QSE2\$PCN	"B'00000100'" \$P CNVT command in effect
		.... ..1.		QSE2PRIM	"B'00000010'" Member is a primary subsystem
		.... ...1		QSE2SPLX	"B'00000001'" Command Prefix has SYSplex scope.
Beginning of fields zeroed at all member warm start					
80	(50)	BITSTRING	4	QSEMAXMS	Members that ceased sending msgs because of \$MAXMSGQ
84	(54)	BITSTRING	1	QSESCMSK	SHRD COMM QUE SPLS USED MSK
<p>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.</p>					
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
End of section for SDSF MEMBER display					
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		Reserved (was QSESNIFF)
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
EQU B'10000000' Reserved (was QSEFXMT)					
		.1.. ....		QSEFLVLS	"B'01000000'" Service level fields set (QSEJ2PLV/QSEJ2SLV)
		..1. ....		QSEFXNNM	"B'00100000'" QSEXLNNM field set
		...1 ....		QSEFDASA	"B'00010000'" OA18783 applied
		.... 1...		QSEFXGNM	"B'00001000'" Use XCFGRPNM for SYSJ2\$XD
End of fields zeroed at all member warm start					
153	(99)	X'50'	0	QSEWARM3	"QSEMAXMS,*-QSEMAXMS" Zeroed at all-mbr warmstart
156	(9C)	SIGNED	4	QSESYSLG	Current SYSLOG job index
160	(A0)	SIGNED	1	QSEJ2PLV	Product level of JES2 last active on this member (&J2PLVL)



Table 141. Structure QSE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
161	(A1)	SIGNED	1	QSEJ2SLV	Service level of JES2 last active on this member (&J2SLVL)
162	(A2)	SIGNED	2		Reserved for future use
Beginning of fields zeroed at all member warm start					
164	(A4)	CHARACTER	4	QSESSNAM	Subsys name (JES2/JESA...)
168	(A8)	SIGNED	4	QSECKPLV	Last CKPT level number
End of fields zeroed at all member warm start					
168	(A8)	X'A4'	0	QSEWARM4	"QSESSNAM,*-QSESSNAM" Zeroed at all-mbr wimstart
QSEGMTOF allows to compare local times from different members. QSEGMTOF - left 4 bytes of TOD format. QSEGMTOF = CVIDLO minus CVTLSO Local time = STCK time plus QSEGMTOF UTC time = STCK time minus CVTLSO Local time = UTC time plus CVTLDT0					
172	(AC)	SIGNED	4	QSEGMTOF	Time offset of this member
Beginning of fields zeroed at all member warm start					
176	(B0)	CHARACTER	4	QSEMVSID	SMF id of MVS system
180	(B4)	CHARACTER	8	QSEXLNMM	Local node name at time of XCF join
188	(BC)	BITSTRING	5	QSESNFMT	MQT this memb is sniffing - 1 byte M and 4 byte TTTT
End of fields zeroed at all member warm start					
188	(BC)	X'B0'	0	QSEWARM5	"QSEMVSID,*-QSEMVSID" Zeroed at all-mbr warmstart
193	(C1)	BITSTRING	3		Reserved
196	(C4)	SIGNED	4		Reserved (as of HJE7705)
196	(C4)	X'C8'	0	QSELEN	"*-QSE" LENGTH OF QSE
200	(C8)	ADDRESS	4	QSEEND(0)	End of QSE

Table 142. Cross Reference for \$QSE

Name	Offset	Hex Tag
QSE	0	
QSE\$EMEM	4E	2
QSE\$PCMD	4E	10
QSE\$PXEQ	4E	8
QSEACTIV	4E	80
QSEADORM	88	
QSEAFFIN	F	
QSEAHOLD	84	
QSEBOSS	4E	4
QSECCHAR	8C	
QSECKPLV	A8	



Table 142. Cross Reference for \$QSE (continued)

Name	Offset	Hex Tag
QSECKPT2	4E	1
QSEECF	28	
QSEEND	C8	
QSEFDASA	99	10
QSEFEAT	99	
QSEFLVLS	99	40
QSEFXGNM	99	8
QSEFXNNM	99	20
QSEGMTOF	AC	
QSEHIVER	98	
QSEHOLD	74	
QSEJCMD	4D	
QSEJWRK	4D	80
QSEJ2PLV	A0	
QSEJ2SLV	A1	
QSEJ2VRN	40	
QSEJ2VR2	97	
QSELAST	4E	20
QSELEN	C4	C8
QSEMAXD	7C	
QSEMAXMS	50	
QSEMEMTK	20	
QSEMIND	78	
QSEMSID	B0	
QSEMSNM	38	
QSEPJOT	4C	40
QSEPLXID	18	
QSEPLXNM	30	
QSEPOSTS	4C	
QSEPEQ	4C	80
QSEQUICK	4E	40
QSERSTID	C	
QSESCMSK	54	
QSESIBSY	E	
QSESID	8	
QSESITIM	0	
QSESNFMT	BC	
QSESSNAM	A4	
QSESTAT	4E	



Table 142. Cross Reference for \$QSE (continued)

Name	Offset	Hex Tag
QSESTAT2	4F	
QSESTIME	90	
QSESTYPE	8D	
QSESYNC	80	
QSESYSLG	9C	
QSESYTOK	48	
QSEWARM1	30	18
QSEWARM2	4D	40
QSEWARM3	99	50
QSEWARM4	A8	A4
QSEWARM5	BC	B0
QSEXLNNM	B4	
QSE2\$IND	4F	40
QSE2\$PCN	4F	4
QSE2EDEL	4F	80
QSE2EGON	4F	8
QSE2LRGB	4F	20
QSE2NMAL	4F	10
QSE2PRIM	4F	2
QSE2SPLX	4F	1

## \$RAT information

### \$RAT programming interface information

\$RAT is a programming interface.

### \$RAT heading information

<b>Common name:</b>	Remote Attribute Table
<b>Macro ID:</b>	\$RAT
<b>DSECT name:</b>	RAT
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	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



<b>Storage attributes:</b>	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.
<b>Size:</b>	RATTLE * \$MAXRJE (temporary RAT during initialization) RATTLE * \$RMTNUM (permanent RAT after initialization)
<b>Created by:</b>	HASPIRMA (temporary RAT during initialization) HASPIRRE (permanent RAT after initialization)
<b>Pointed to by:</b>	\$RATABLE field of the \$HCT data area MDCTRAT field of the \$DCT data area
<b>Serialization:</b>	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).
<b>Function:</b>	<p>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.</p> <p>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.</p>

## \$RAT mapping

Table 143. Structure RAT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	RAT	REMOTE ATTRIBUTE TABLE DSECT
0	(0)	CHARACTER	8	RATNAME	REMOTE NAME
8	(8)	ADDRESS	4	RATR DCT	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



Table 143. Structure RAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
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
70	(46)	SIGNED	2	RATRMTNO	Remote number
72	(48)	ADDRESS	8	RATCDCT	CDCT address
80	(50)	SIGNED	4	RATEND(0)	END OF RAT DSECT
80	(50)	X'50'	0	RATTLE	"*-RAT" LENGTH OF RAT
RATCONF					
	1... ....			RATCONF T	"B'10000000'" DISPLAY TIME STAMP, JOB ID, TEXT
	.1.. ....			RATCONF J	"B'01000000'" DISPLAY JOB ID, TEXT
	..1. ....			RATCONF C	"B'00100000'" REMOTE HAS A CONSOLE
ATCONFO EQU B'00010000' REMOTE CONSOLE OPERATIONAL					
	.... 1...			RATCONF I	"B'00001000'" ISSUE SETUP MSGS AS 'INFO'
	.... .1..			RATCONF D	"B'00000100'" ISSUE HASP150 ON-DEVICE MSG TO RMT CONSOLE AS WELL AS OPERATOR, INEFFECTIVE IF IF CONFC IS OFF
	.... ..1.			RATCONF S	"B'00000010'" SUPPRESS RMT MSG PRINTING (MSGPRT=NO ON RMTNN STMT)
RATFLAGS					
	1... ....			RATALM	"B'10000000'" REMOTE IS IN AUTOLOGON MODE
	.1.. ....			RATSRMT	"B'01000000'" REMOTE SHOULD BE STARTED
	..1. ....			RATTINT	"B'00100000'" TEMP DISC INTERVAL IN EFFECT
	...1 ....			RATPILUN	"B'00010000'" RATSYMB PERMANENTLY INITIALIZED



Table 143. Structure RAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					EQU B'00001000' Reserved for future use EQU B'00000100' Reserved for future use
	....	..1.		RATVALID	"B'00000010'" RAT ENTRY IS VALID, IF FLAG IS OFF NO RDR/PRT/PUN DCTS ARE ALLOCATED, SIGNON IS NOT BE PERMITTED
	....	...1		RATOUTPT	"B'00000001'" OUTPUT EXISTS FOR THIS RMT
					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.
	1...	....		RAT2QSCN	"B'10000000'" AUTOLG FULL Q SCAN REQUIRED
	.1..	....		RAT2NSHR	"B'01000000'" RATLDCT holds nonshared line
	..1.	....		RAT2SHRE	"B'00100000'" RATLDCT holds shared line

Table 144. Cross Reference for \$RAT

Name	Offset	Hex	Tag
RAT	0		
RATALM	50		80
RATBUFSZ	24		
RATCDCT	48		
RATCONF	1E		
RATCONF C	50		20
RATCONF D	50		4
RATCONF I	50		8
RATCONF J	50		40
RATCONF S	50		2
RATCONF T	50		80
RATCONRT	20		
RATDINTV	2A		
RATEND	50		
RATFEAT	1A		
RATFLAGS	28		
RATFLAG2	29		
RATFMT	19		
RATIMER	2C		
RATLDCT	C		
RATLOGN	44		
RATNAME	0		
RATNODE	14		



Table 144. Cross Reference for \$RAT (continued)

Name	Offset	Hex	Tag
RATNUMPR	1C		
RATNUMPU	1D		
RATNUMRD	1B		
RATOUTPT	50		1
RATPILUN	50		10
RATPSWD	38		
RATRDCT	8		
RATRMJQE	40		
RATRMTNO	46		
RATROUTE	14		
RATRTE	16		
RATSRMT	50		40
RATSYMB	30		
RATTINT	50		20
RATTLE	50		50
RATTOKA	10		
RATTYPE	18		
RATVALID	50		2
RATWTIME	26		
RAT2NSHR	50		40
RAT2QSCN	50		80
RAT2SHRE	50		20

## \$RCPWORK information

### \$RCPWORK programming interface information

\$RCPWORK is a programming interface.

### \$RCPWORK heading information

<b>Common name:</b>	JES2 Remote Console Processor
<b>Macro ID:</b>	\$RCPWORK
<b>DSECT name:</b>	PCE (\$RCPWORK is part of the PCE DSECT)
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'PCE ' Offset: PCEEYE-PCE Length: 4
<b>Storage attributes:</b>	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE



<b>Size:</b>	See symbol RCPPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
<b>Created by:</b>	See \$PCE
<b>Pointed to by:</b>	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.
<b>Serialization:</b>	Normal PCE dispatch serialization
<b>Function:</b>	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 mapping

Table 145. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP REMOTE CONSOLE PROCESSOR
REMOTE CONSOLE DEVICE CONTROL TABLE (WITH COMBINED BSC AND SNA FOUNDATION EXTENSIONS)					
336	(150)	DBL WORD	8	(0)	BEGINNING OF DCT
336	(150)	BITSTRING	1	RCPDCT	BSC RMT DCT & EXTNSN
END OF REMOTE CONSOLE DEVICE CONTROL TABLE					
472	(1D8)	ADDRESS	1	RCPWF	WORK/WAIT FLAGS
473	(1D9)	BITSTRING	1	RCPWF2	MORE WORK/WAIT FLAGS
474	(1DA)	ADDRESS	1	RCPMF	MESSAGE PENDING FLAGS
475	(1DB)	BITSTRING	1		Reserved
476	(1DC)	SIGNED	4	RCPJQTM	Start of job queue timer (1st word of STCK)
480	(1E0)	DBL WORD	8	RCPEXTPL	RCP EXTP PARAMETER LIST AREA
488	(1E8)	DBL WORD	8	RCPBASET	Time of scan (STCK)
CURRENT CONCURRENT FUNCTION EXIT ADDRESSES					
496	(1F0)	SIGNED	4	RCPXIT(0)	
496	(1F0)	ADDRESS	4	RCPMSXIT	EXIT TO MESSAGE SPOOLING CHECK RTN
500	(1F4)	ADDRESS	4	RCPSOXIT	EXIT TO SPOOLING OUT FUNCTION
504	(1F8)	ADDRESS	4	RCPSIXIT	EXIT TO SPOOLING IN FUNCTION
508	(1FC)	ADDRESS	4	RCPIOXIT	EXIT TO INPUT FUNCTION
508	(1FC)	X'1F0'	0	RCPDMXCN	"RCPXIT,*-RCPXIT"
512	(200)	SIGNED	4	RCPREGSV(16)	INTERNAL RCP SAVE/WORK AREA
576	(240)	ADDRESS	4	RCPIOT	IOT BUFFER
580	(244)	ADDRESS	4	RCPSWELQ	Pending SAF requests



Table 145. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
MESSAGE SPOOLING CONTROLS					
584	(248)	ADDRESS	4	RCPMSB1	FIRST MESSAGE BUFFER ADDRESS
588	(24C)	ADDRESS	4	RCPMSBL	LAST MESSAGE BUFFER ADDRESS
592	(250)	ADDRESS	4	RCPMSLBW	LAST BUFFER WRITTEN TO MSG DS + 1
596	(254)	ADDRESS	4	RCPMSCB	NEXT MESSAGE SPOOL BUFFER TO CHECK
600	(258)	ADDRESS	4	RCPMSBSV	NEXT MSG BUFFER TO PROCESS
604	(25C)	ADDRESS	4	RCPMSRRD	BFR CURRENTLY BEING REREAD
608	(260)	ADDRESS	4	RCPMSIOT	ADDRESS OF CURRENT RMT MSG IOT
612	(264)	ADDRESS	4	RCPMSBAT	BAT for IOT buffer
616	(268)	ADDRESS	4	RCPMSRAT	ADDRESS OF CURRENT RAT ELEMENT
620	(26C)	ADDRESS	4	RCPMSNTK	MTTR OF NEXT MSG REC TO WRITE
624	(270)	ADDRESS	4	RCPMSMB	CMB address
628	(274)	ADDRESS	4	RCPMSHDR	SAVE AREA FOR CMB HEADER
632	(278)	ADDRESS	4	RCPMSRTE	RMT NO. OF CMB BEING SPOOLED
636	(27C)	ADDRESS	4	RCPROUT	SCANNED OUTPUT REMOTE NUMBER
640	(280)	CHARACTER	8	RCPMSKEY(0)	REMOTE MESSAGE DS KEY
640	(280)	SIGNED	4	RCPMSKJK	JOB IDENTIFIER KEY
644	(284)	SIGNED	4	RCPMSKDK	DATA SET KEY
648	(288)	ADDRESS	2	RCPBFSZ	CONSOLE BUFFER SIZE
650	(28A)	BITSTRING	1	RCPCFLG	CMB processing flags
	1... ....			RCPCFQCH	"B'10000000" CMB has been dechained from \$BUSYRQ, OK to run entire chain
	.1.. ....			RCPCFVTS	"B'01000000" SNA buffer shortage HASP248 has been issued
	..1. ....			RCPCFBSS	"B'00100000" BSC buffer shortage HASP248 has been issued
	...1 ....			RCPCFMLM	"B'00010000" MLLM suspended HASP248 has been issued
	.... 1...			RCPCFPLF	"B'00001000" All CMBs dequeued from CCTNOUSQ
651	(28B)	ADDRESS	1		RESERVED FOR FUTURE USE
SPOOL OUT CONTROLS					
652	(28C)	ADDRESS	4	RCPSOBAK	BACK UP ADDRESS TO SPOOL OUT BUFFER
656	(290)	ADDRESS	4	RCPSOOUT	SHARED QUEUE OUTPUT BUFFER ADDRESS
660	(294)	ADDRESS	4	RCPSOLR	LOCATION OF LOGICAL RECORD
664	(298)	ADDRESS	2	RCPSOFRE	FREE DATA COUNT
666	(29A)	ADDRESS	2	RCPSOCTR	COUNTER
668	(29C)	ADDRESS	4	RCPSOQSE	CURRENT OUTPUT QSE ADDRESS
668	(29C)	X'C'	0	RCPTABBL	"L'IOTRCPBA+L'TABRCPBA" BACK-UP AREA FOR 1 SYSTEM
672	(2A0)	BITSTRING	1	RCPTABBA(0)	Work data for \$TRACK
1056	(420)	ADDRESS	3	RCPSORT	CURRENT NODE-QUALIFIER TO SPOOL
NODAL OUTPUT CONTROL					
1059	(423)	ADDRESS	3	RCPNORT	CURRENT NODE TO NODE OUT
1062	(426)	BITSTRING	3	RCPNMRP	3-BYTE PREFACE TO NODAL MSG REC



Table 145. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
NOTE: MUST ALWAYS PRECEDE NMR ASSEMBLY AREA --- USED BY \$EXTP PUT TO BUILD RID					
1065	(429)	BITSTRING	178	RCPNMR	ASSEMBLY AREA FOR NODAL MESSAGE RECS
1243	(4DB)	ADDRESS	1	RCPAUTH	NODAL COMMAND AUTHORITY RESTRICTIONS
1244	(4DC)	ADDRESS	4	RCPNODCT	CURRENT NODAL OUTPUT DCT ADDR
1248	(4E0)	SIGNED	4	RCPNPMB	Start of path manager timer (1st word of STCK)
SHARED QUEUE INPUT CONTROL					
1252	(4E4)	ADDRESS	4	RCPSIIN	SHARED QUEUE INPUT BUFFER
1256	(4E8)	ADDRESS	4	RCPSILR	LOCATION OF LOGICAL RECORD
1260	(4EC)	ADDRESS	2	RCPSICTR	COUNTER
1262	(4EE)	ADDRESS	2	RCPSICTA	COUNTER
1264	(4F0)	ADDRESS	4	RCPSIQSQ	CURRENT INPUT QSE CONTROL ELEMENT
1268	(4F4)	ADDRESS	4	RCPMTTR	SAVE AREA - CURRENT INPUT MTTR
1272	(4F8)	ADDRESS	2	RCPSID	System id number
1274	(4FA)	BITSTRING	48	RCPSIRT	CMB SPOOL HEADER IN MLWTO
1322	(52A)	ADDRESS	2	RCPSIQCT	QSE SEARCH COUNTER SAVE AREA
1324	(52C)	BITSTRING	5	RCPTGAE	TGAE work area
1329	(531)	BITSTRING	3		Reserved
INPUT FUNCTION SPOOL OUT CONTROL					
1332	(534)	ADDRESS	4	RCPIOOUT	INPUT OVERFLOW OUTPUT BUFFER ADDRESS
1336	(538)	ADDRESS	4	RCPIOLR	LOCATION OF LOGICAL RECORD
1340	(53C)	ADDRESS	2	RCPIOFRE	FREE DATA COUNT
1342	(53E)	ADDRESS	2	RCPIOCTR	COUNTER
1344	(540)	ADDRESS	4	RCPIOTTR	ACTIVE INPUT SPOOL OUTPUT RECRD
NODAL INPUT CONTROL					
1348	(544)	ADDRESS	4	RCPININ	INPUT OVERFLOW INPUT BUFFER
1352	(548)	ADDRESS	4	RCPINLNE	CURRENT INPUT SOURCE DCT ADDR
1356	(54C)	SIGNED	4	RCPINTME	Start of line input timer (1st word of STCK)
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.					
1360	(550)	BITSTRING	232	RCPIN	Cmd/msg input work area
1592	(638)	BITSTRING	256	RCPINA	AREA TO RECEIVE DATA
1848	(738)	BITSTRING	1	RCPTOKN	Area for token
MISCELLANEOUS					
1928	(788)	SIGNED	4	(0)	Ensure alignment
1928	(788)	CHARACTER	64	RCPSAFPM	Parameters for MSAFCHK
1992	(7C8)	ADDRESS	1	RCPFL	FLAGS
1993	(7C9)	ADDRESS	1	RCPFI	FLAGS FOR INPUT FUNCTIONS



Table 145. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1994	(7CA)	ADDRESS	2	RCPSCQOF	Offset of this member's SCQ
1996	(7CC)	ADDRESS	4	RCPSCQAD	Addr of this member's SCQS
2000	(7D0)	ADDRESS	4	RCPRESV	RESERVED BUFFER
2004	(7D4)	BITSTRING	48	RCPLSAV	MLWTO CNTRL FOR INPUT LNES
2052	(804)	CHARACTER	18	RCPDSTWK	DEST WORK AREA
2070	(816)	CHARACTER	2	RCPRSV1	RESERVED FOR FUTURE USE
2072	(818)	ADDRESS	4	RCPXSAV(3)	EXIT ROUTINE ACTIVATOR SAVE AREA
2084	(824)	ADDRESS	2	RCPSIDEL(0)	Offsets for interrupted READs
2148	(864)	ADDRESS	4	RCPSIDL	CURRENT INTERRUPTED READ OFFSET
2152	(868)	SIGNED	4	RCPREGS(16)	Save area for \$SETAFF macro
Parameter list and other work areas for MVS Cloning translation service routine.					
2216	(8A8)	SIGNED	4	RCPSYMBP(0)	Parameter List
2244	(8C4)	SIGNED	4	RCPSYMLN	Length of translated cmd
2248	(8C8)	SIGNED	4	RCPSYMRC	RC from translation service
2252	(8CC)	ADDRESS	4	RCPSYMBF	Addr of trans output bfr
----- \$BLDMSG MF=L List form of \$BLDMSG					
2256	(8D0)	SIGNED	4	RCPBLSMG(0)	Control block ID
2260	(8D4)	BITSTRING	4		Console ID
2264	(8D8)	ADDRESS	4		Address of the CART
2268	(8DC)	ADDRESS	4		Pointer for JOBID
2272	(8E0)	ADDRESS	4		Control block address
2276	(8E4)	ADDRESS	4		Display routine address
2280	(8E8)	ADDRESS	4	(6)	6 word work area
2304	(900)	ADDRESS	4		Caller's R11 value
2308	(904)	BITSTRING	2		ROUT code for Message
2310	(906)	BITSTRING	2		Not used
2312	(908)	CHARACTER	4		Message ID
2316	(90C)	CHARACTER	1		Separator character
2317	(90D)	ADDRESS	1		Flag byte 1
2318	(90E)	ADDRESS	1		'DISPER'
2319	(90F)	ADDRESS	1		Flag byte 2
2320	(910)	ADDRESS	1		Flag byte 3
2321	(911)	ADDRESS	1		Severity of message
2322	(912)	CHARACTER	8		Symbolic name of dest.
2330	(91A)	BITSTRING	14		Not used
2344	(928)	ADDRESS	4	(0)	Ensure multiple of 4
2344	(928)	ADDRESS	2	(0)	
2344	(928)	CHARACTER	8	RCPSOURC	HASP551 command source
2352	(930)	CHARACTER	8	RCPADJND	HASP551 adjacent node
2360	(938)	BITSTRING	1	RCPDUBIE	HASP551 rejection reason
2360	(938)	X'4'	0	RCPDOWN	"4" Command from own node
2360	(938)	X'8'	0	RCPDUNKN	"8" Command from unknown node



Table 145. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2360	(938)	X'C'	0	RCPDSUB	"12" Subnet command arrived from outside subnet
2360	(938)	X'10'	0	RCPDDIR	"16" Direct origin via S & F
2360	(938)	X'14'	0	RCPDADJX	"20" Adjacent and exec node same
2361	(939)	BITSTRING	1		Reserved
2362	(93A)	SIGNED	2	RCPNMRSZ	Inbound NMR size
2364	(93C)	SIGNED	4	RCPLMTTS	Time of last MLWTO piece
2368	(940)	ADDRESS	4	RCPLMTCM	Set aside MLWTO CMB
2372	(944)	BITSTRING	4		Reserved
2376	(948)	SIGNED	8	(0)	Align
2376	(948)	X'7F8'	0	RCPPCEWS	"*-PCEWORK"
RCPWF DEFINITIONS					
		1... ....		RCPWFCMB	"B'10000000'" WAIT ON CMB
		.1.. ....		RCPWFQX	"B'01000000'" WAIT ON JOB QUEUE IN EXIT
		..1. ....		RCPWFQO	"B'00100000'" WAIT ON JOB QUEUE FOR OUTPUT
		...1 ....		RCPWFTRK	"B'00010000'" WAIT ON \$TRACK
		.... 1..		RCPWFPCB	"B'00001000'" PURGE CMB (CMB SHORTAGE)
		.... .1..		RCPWFBUF	"B'00000100'" WAIT ON TP BUFFER
		.... ..1.		RCPWFIBF	"B'00000010'" WAIT ON INPUT TP BUFFER
		.... ...1		RCPWFPSO	"B'00000001'" PURGE SPOOL OUTPUT BUFFER
RCPWF2 DEFINITIONS					
		.1.. ....		RCPWF2ML	"B'01000000'" MLWTO IN PROGRESS
RCPFL DEFINITIONS					
		1... ....		RCPFLSOM	"B'10000000'" SPOOLING OUT WORKING ON MLWTO
		.1.. ....		RCPFLSOE	"B'01000000'" SPOOLING OUT DISASTROUS ERROR FLAG
		..1. ....		RCPFLNOM	"B'00100000'" NODAL OUT WORKING ON MLWTO
EQU B'00010000' Reserved for future use					
		.... 1..		RCPFLTML	"B'00001000'" WE ARE CURRENTLY TRANSMITTING MLWTO
		.... .1..		RCPFLT	"B'00000100'" TEMPORARY CONDITION INDICATOR
		.... ..1.		RCPFLMXM	"B'00000010'" &SPOMSG MAX MSG RECS REACHED
		.... ...1		RCPFLIOE	"B'00000001'" I/O ERROR SPOOLING RMT MSGS
RCPMF DEFINITIONS					
		1... ....		RCPMFSPF	"B'10000000'" MTTRVAL error
		.1.. ....		RCPMFRRD	"B'01000000'" ERROR READING REMOTE MSGS



Table 145. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1. ....		RCPMFRWR	"B'00100000'" ERROR WRITING REMOTE MSGS
		...1 ....		RCPMFMNU	"B'00010000'" SPOOL MEM NOT UP-MSGs DISCARDED
		.... 1...		RCPMFMAX	"B'00001000'" MSG LIMIT REACHED ON INPUT
		.... .1..		RCPMFMQE	"B'00000100'" MAX MSGS TO SPOOL Q EXCEEDED
		.... ..1.		RCPMFSMP	"B'00000010'" SPOOL OUT ERROR MESSAGE PENDING
		.... ...1		RCPMFIMP	"B'00000001'" INPUT ERROR MESSAGE PENDING
		.111 1111		RCPMFPND	"B'01111111'" Bits used in RCPMF - used to determine if a message needs to be issued.
RCPFI DEFINITIONS					
		1... ....		RCPFIIE	"B'10000000'" ERROR ON INPUT
		.1.. ....		RCPFIM	"B'01000000'" NODE INPUT IS PROCESSING MLWTO
		..1. ....		RCPFISP	"B'00100000'" INPUT SPOOLING IS ACTIVE
		...1 ....		RCPFIOE	"B'00010000'" INPUT SPOOL OUT ERROR
		.... 1...		RCPFISID	"B'00001000'" SPOOL BUFFER HAS DATA
		.... .1..		RCPFINUL	"B'00000100'" INPUT SPOOL DISCARDING
		.... ..1.		RCPFIA	"B'00000010'" INPUT SPOOL WRITING
		.... ...1		RCPFIR	"B'00000001'" PAGE RELEASE REQUIRED ON SPOOL INPUT

Table 146. Cross Reference for \$RCPWORK

Name	Offset	Hex Tag
PCE	0	
RCPADJND	930	
RCPAUTH	4DB	
RCPBASET	1E8	0
RCPBFSZ	288	
RCPBLMSG	8D0	C2D3C440
RCPCFBSS	28A	20
RCPCFLG	28A	
RCPCFMLM	28A	10
RCPCFPLF	28A	8
RCPCFQCH	28A	80
RCPCFVTS	28A	40
RCPDADJX	938	14
RCPDCT	150	0
RCPDDIR	938	10
RCPDMXCN	1FC	1F0



Table 146. Cross Reference for \$RCPWORK (continued)

Name	Offset	Hex Tag
RCPDOWN	938	4
RCPDSTWK	804	
RCPDSUB	938	C
RCPDUBIE	938	
RCPDUNKN	938	8
RCPEXTPL	1E0	0
RCPFI	7C9	
RCPFIA	948	2
RCPFIIE	948	80
RCPFIM	948	40
RCPFINUL	948	4
RCPFIOE	948	10
RCPFIR	948	1
RCPFISID	948	8
RCPFISP	948	20
RCPFL	7C8	
RCPFLIOE	948	1
RCPFLMXM	948	2
RCPFLNOM	948	20
RCPFLSOE	948	40
RCPFLSOM	948	80
RCPFLT	948	4
RCPFLTML	948	8
RCPIN	550	0
RCPINA	638	0
RCPININ	544	
RCPINLNE	548	
RCPINTME	54C	0
RCPIOCTR	53E	0
RCPIOFRE	53C	0
RCPIOLR	538	
RCPIOOUT	534	
RCPIOT	240	
RCPIOTTR	540	
RCPIOXIT	1FC	
RCPJQTM	1DC	0
RCPLSAV	7D4	0
RCPMF	1DA	
RCPMFIMP	948	1



Table 146. Cross Reference for \$RCPWORK (continued)

Name	Offset	Hex Tag
RCPMFMAX	948	8
RCPFMFNU	948	10
RCPFMFQE	948	4
RCPMFPND	948	7F
RCPMFRRD	948	40
RCPMFRWR	948	20
RCPMFSMP	948	2
RCPMFSPF	948	80
RCPMLTCM	940	
RCPMLTTS	93C	
RCPMSBAT	264	
RCPMSBL	24C	
RCPMSBSV	258	
RCPMSB1	248	
RCPMSCB	254	
RCPMSCMB	270	
RCPMSHDR	274	
RCPMSIOT	260	
RCPMSKDK	284	
RCPMSKEY	280	
RCPMSKJK	280	
RCPMSLBW	250	
RCPMSNTK	26C	
RCPMSRAT	268	
RCPMSRRD	25C	
RCPMSRTE	278	
RCPMSXIT	1F0	
RCPMTTR	4F4	
RCPNMR	429	0
RCPNMRP	426	0
RCPNMRSZ	93A	
RCPNODCT	4DC	
RCPNORT	423	
RCPNPMB	4E0	0
RCPPEWS	948	7F8
RCPREGS	868	
RCPREGSV	200	
RCPRESV	7D0	
RCPROUT	27C	



Table 146. Cross Reference for \$RCPWORK (continued)

Name	Offset	Hex Tag
RCPRSV1	816	
RCPSAFPM	788	
RCPSCQAD	7CC	
RCPSCQOF	7CA	0
RCPSICTA	4EE	0
RCPSICTR	4EC	0
RCPSID	4F8	0
RCPSIDEL	824	0
RCPSIDL	864	
RCPSIIN	4E4	
RCPSILR	4E8	
RCPSIQCT	52A	0
RCPSIQSQ	4F0	
RCPSIRT	4FA	0
RCPSIXIT	1F8	
RCPSOBAK	28C	
RCPSOCTR	29A	0
RCPSOFRE	298	0
RCPSOLR	294	
RCPSOOUT	290	
RCPSOQSE	29C	
RCPSORT	420	
RCPSOURC	928	
RCPSOXIT	1F4	
RCPSWELQ	244	
RCPSYMBF	8CC	
RCPSYMBP	8A8	
RCPSYMLN	8C4	
RCPSYMRC	8C8	
RCPTABBA	2A0	0
RCPTABBL	29C	C
RCPTGAE	52C	0
RCPTOKN	738	0
RCPWF	1D8	
RCPWFBUF	948	4
RCPWFCMB	948	80
RCPWFIBF	948	2
RCPWFPCB	948	8
RCPWFPSO	948	1



Table 146. Cross Reference for \$RCPWORK (continued)

Name	Offset	Hex Tag
RCPWFQ0	948	20
RCPWFQX	948	40
RCPWFTRK	948	10
RCPWF2	1D9	0
RCPWF2ML	948	40
RCPXIT	1F0	
RCPXSAV	818	

## \$RDRWORK information

### \$RDRWORK programming interface information

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

- RDWOCT
- RDWRJCB
- RDWRJCBS

### \$RDRWORK heading information

<b>Common name:</b>	JES2 Input Services PCE Work Area
<b>Macro ID:</b>	\$RDRWORK
<b>DSECT name:</b>	PCE (\$RDRWORK is part of the PCE DSECT)
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'PCE ' Offset: PCEEYE-PCE Length: 4
<b>Storage attributes:</b>	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
<b>Size:</b>	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.
<b>Created by:</b>	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  
\$NJRPECE field of the \$HCT data area  
\$OJRPCE field of the \$HCT data area  
\$NRRPCE field of the \$HCT data area  
\$EXECPCE 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 mapping

Table 147. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	BITSTRING	1	RDWSW1	Reader switches
		1... ....		RDW1EOF	"B'10000000'" End-of-file switch
		.1... ....		RDW1DRN	"B'01000000'" SPOF recver being drained
337	(151)	BITSTRING	2		Reserved for future use
339	(153)	BITSTRING	1	RDWFLAGX	READER EXITS FLAG BYTE
340	(154)	SIGNED	4	RDWIBEND	ADDRESS OF LAST CARD IN INPUT BUFFER
344	(158)	ADDRESS	4	RDWIBSTD	INPUT BUFFER START DISPLACEMENT
RPUT parameter lists					
348	(15C)	BITSTRING	184	RDWPJCL	JCLIN data set parm list
532	(214)	BITSTRING	184	RDWPSYSN	SYSIN data set parm list
716	(2CC)	CHARACTER	10	RDWDEST	DESTINATION WORK AREA
Encryption/Compression Flag byte					
726	(2D6)	BITSTRING	1		Reserved



Table 147. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
727	(2D7)	BITSTRING	1	RDWOPNF	Data set open flag
		1... ....		RDWOCBIO	"B'10000000'" CBIO error
		.1.. ....		RDWOGBUF	"B'01000000'" GETBUF error
		..1. ....		RDWOTRAK	"B'00100000'" TRACK error
728	(2D8)	ADDRESS	4	RDWSMFB	SMF BUFFER POINTER
736	(2E0)	DBL WORD	8	RDWCWKAR(0)	JRW work area
3904	(F40)	ADDRESS	4	RDWIBCUR	Input buffer current card
3908	(F44)	ADDRESS	4	RDWDSEL	Address of DSETLVL
The following fields track the total bytes written by the job using data blocks					
3912	(F48)	ADDRESS	8	RDWBYTEC	Total job uncompressed byte count
3920	(F50)	ADDRESS	8	RDWBCOMP	Total job compressed byte count
3928	(F58)	SIGNED	4	RDWCMPCT	Compressed data set count
3932	(F5C)	SIGNED	4	RDWENCCT	Encrypted data set count
3932	(F5C)	X'F48'	0	RDWENCFL	"RDWBYTEC,*-RDWBYTEC" Composite of all encryption stat fields
3936	(F60)	SIGNED	4	(2)	RESERVED
3936	(F60)	X'F68'	0	RDWORG	"*" START OF READER EXTENSIONS
WORK AREA FOR RJE INPUT DEVICES					
3944	(F68)	CHARACTER	260	RDWRJECD(0)	REMOTE READER INPUT AREA
3944	(F68)	CHARACTER	256	RDWRCARD	MAX RJE CARD IMAGE SIZE
4200	(1068)	CHARACTER	4	RDWRCDXT	RESERVED FOR XTRA WK SPACE
4204	(106C)	BITSTRING	8		Reserved
4204	(106C)	X'F24'	0	RDWRJELN	"*-PCEWORK" LENGTH OF RJE INPUT PCE WORK AREA
WORK AREA FOR NETWORK JOB RECEIVERS					
3944	(F68)	BITSTRING	260	RDWNJRCD(0)	JOB RECEIVER INPUT AREA
3944	(F68)	BITSTRING	256	RDWNCARD	MAXIMUM NJE HEADER SIZE
4200	(1068)	BITSTRING	4	RDWNCDXT	RESERVED FOR XTRA WK SPACE
4204	(106C)	ADDRESS	4	RDWNIBUF	Address of 32K input buffer
4208	(1070)	BITSTRING	1	RDWNSRCB	SRCB work area
4209	(1071)	BITSTRING	3		Reserved
4209	(1071)	X'F24'	0	RDWNJRLN	"*-PCEWORK" JOB RECEIVER PCE WORK AREA LENGTH
4209	(1071)	X'F24'	0	RDWLEN	"*-PCEWORK" Length of normal input PCE work area
Ensure lengths of extensions are equal. Assembly errors will show in following SCONS if not equal.					
4212	(1074)	ADDRESS	2	(0)	
4212	(1074)	ADDRESS	2	(0)	



Table 148. Structure RDWPUTPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RDWPUTPL	, RPUT parameter list DSECT
0	(0)	ADDRESS	4	RDWPLBUF	Current output buffer
4	(4)	ADDRESS	4	RDWPLBNX	Next card in buffer addr
8	(8)	ADDRESS	4	RDWPLBND	End of output buffer addr
12	(C)	BITSTRING	6	RDWPLCTK	Current buffer track address (MQTR)
18	(12)	BITSTRING	6	RDWPLPVK	Previous buffer track MQTR
24	(18)	BITSTRING	6	RDWPLPVO	Prev object start MQTR (used to set HDBDATPR)
30	(1E)	BITSTRING	6	RDWPLIMQ	MQTR of IOT containing PDDb
36	(24)	ADDRESS	4	RDWPLPDB	Associated PDDb
40	(28)	ADDRESS	8	RDWPLDAT(0)	64 bit data pointer
40	(28)	SIGNED	4		High half of record
44	(2C)	ADDRESS	4	RDWPLREC	31 bit record pointer
48	(30)	ADDRESS	8	RDWPLRCS	Save area for RDWPLDAT
56	(38)	BITSTRING	1	RDWPLCC	Carriage control
57	(39)	BITSTRING	1	RDWPLLR	LRC to be used
58	(3A)	BITSTRING	1	RDWPLLR	Save area for RDWPLLR
59	(3B)	BITSTRING	1	RDWPLSLN	SCR length (SCRLENG)
60	(3C)	BITSTRING	1	RDWPLSTY	SCR Type (SCRTYPE)
61	(3D)	BITSTRING	1		Reserved
62	(3E)	SIGNED	2	RDWPLRCL	Record LRECL
64	(40)	DBL WORD	8	RDWPTMP	8 byte work area
72	(48)	CHARACTER	64	RDWPELBL	Input DSKEYLBL label
136	(88)	BITSTRING	1	RDWPLENG	Length of RDWPELBL
137	(89)	BITSTRING	1	RDWPDSNL	Length of RDWPDSN
138	(8A)	CHARACTER	8	RDWPDSN	Data set DSNAME
146	(92)	BITSTRING	1	RDWPLFG1	Control flags
	1... ....			RDWPL1TR	"B'10000000" Truncate current buffer
	.1.. ....			RDWPL1CL	"B'01000000" Truncate and close stream
	..1. ....			RDWPL1JL	"B'00100000" JCL data set (will be read by converter)
	...1 ....			RDWPENCR	"B'00010000" Encryption label supplied - dataset compressed and encrypted
	.... 1...			RDWPL1MO	"B'00001000" Expect multiple objects
	.... .1..			RDWPL1BS	"B'00000100" HDB has a begin segment
	.... ..1.			RDWPL1CP	"B'00000010" Close is pending
	.... ...1			RDWPL1RL	"B'00000001" Resource limit detected
Work areas used by RPUT and close processing					
147	(93)	BITSTRING	1	RDWPLFG2	Data flag byte
	1... ....			RDWPL2FR	"B'10000000" At least one record proc
	.1.. ....			RDWPL2VA	"B'01000000" Record sized vary
	..1. ....			RDWPL2CA	"B'00100000" ASA control character found



Table 148. Structure RDWPUTPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		...1 ....		RDWPL2CM	"B'00010000'" Machine control chars found
148	(94)	SIGNED	2	RDWPLMLR	Max LRECL seen by RPUT
150	(96)	SIGNED	2	RDWPLCLN	Blank truncated card length
152	(98)	SIGNED	2	RDWPLSTC	Count of record starts
156	(9C)	SIGNED	4		Reserved
160	(A0)	SIGNED	8	RDWREC#	Number of records
168	(A8)	ADDRESS	8	RDWENCO	Encryption object address returned by ENCRYPTV
176	(B0)	ADDRESS	4	RDWPLBFS	Buffer save area
180	(B4)	SIGNED	4		Reserved
180	(B4)	X'B8'	0	RDWPLSIZ	"*-RDWPUTPL" Parameter list size
		...1 ....		RDWSIOCS	"X'10'" SIO CSW STORED BIT
		..11 ....		RDWSIOCC	"X'30'" SIO COMPLETION CODE BITS

Table 149. Cross Reference for \$RDRWORK

Name	Offset	Hex Tag
PCE	0	
RDWBCOMP	F50	
RDWBYTEC	F48	
RDWCMPCT	F58	
RDWCWKAR	2E0	
RDWDEST	2CC	
RDWDSEL	F44	
RDWENCCT	F5C	
RDWENCFL	F5C	F48
RDWENCO	A8	
RDWFLAGX	153	
RDWIBCUR	F40	
RDWIBEND	154	
RDWIBSTD	158	
RDWLEN	1071	F24
RDWNCARD	F68	
RDWNCDXT	1068	
RDWNIBUF	106C	
RDWNJRCD	F68	
RDWNJRLN	1071	F24
RDWNSRCB	1070	
RDWOCBIO	2D7	80
RDWOGBUF	2D7	40
RDWOPNF	2D7	
RDWORG	F60	F68



Table 149. Cross Reference for \$RDRWORK (continued)

Name	Offset	Hex Tag
RDWOTRAK	2D7	20
RDWPDSN	8A	
RDWPDSNL	89	
RDWPELBL	48	
RDWPENCR	92	10
RDWPJCL	15C	
RDWPLBFS	B0	
RDWPLBND	8	
RDWPLBNX	4	
RDWPLBUF	0	
RDWPLCC	38	
RDWPLCLN	96	
RDWPLCTK	C	
RDWPLDAT	28	
RDWPLENG	88	
RDWPLFG1	92	
RDWPLFG2	93	
RDWPLIMQ	1E	
RDWPLLRC	39	
RDWPLLRS	3A	
RDWPLMLR	94	
RDWPLPDB	24	
RDWPLPVK	12	
RDWPLPVO	18	
RDWPLRCL	3E	
RDWPLRCS	30	
RDWPLREC	2C	
RDWPLSIZ	B4	B8
RDWPLSLN	3B	
RDWPLSTC	98	
RDWPLSTY	3C	
RDWPL1BS	92	4
RDWPL1CL	92	40
RDWPL1CP	92	2
RDWPL1JL	92	20
RDWPL1MO	92	8
RDWPL1RL	92	1
RDWPL1TR	92	80
RDWPL2CA	93	20



Table 149. Cross Reference for \$RDRWORK (continued)

Name	Offset	Hex Tag
RDWPL2CM	93	10
RDWPL2FR	93	80
RDWPL2VA	93	40
RDWPSYSN	214	
RDWPTMP	40	
RDWPUTPL	0	
RDWRCARD	F68	
RDWRCDXT	1068	
RDWREC#	A0	
RDWRJECD	F68	
RDWRJELN	106C	F24
RDWSIOCC	B4	30
RDWSIOCS	B4	10
RDWSMFB	2D8	
RDWSW1	150	
RDW1DRN	150	40
RDW1EOF	150	80

## \$RECY information

### \$RECY heading information

<b>Common name:</b>	Recovery CTENT
<b>Macro ID:</b>	\$RECY
<b>DSECT name:</b>	RECYDAS
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	The pool of RECY CTENTs are preceded by an eyecatcher '**RECY POOL**' in the header for the pool. Offset: HDPID-HDP Length: 13
<b>Storage attributes:</b>	Subpool: 0,dataspace Key: 1 Residency: Virtual storage is anywhere (below or above 16M) in the JES2 address space. Real storage is anywhere.
<b>Size:</b>	\$RCDSIZE in the \$HCT data contains the size of a RECYDAS array element.
<b>Created by:</b>	JES2 initialization allocates storage for the RECY CTENTS in JES2 private. The checkpoint versions subtask creates copies of the RECYDAS checkpoint versions dataspace.



**Pointed to by:** The \$RCDFRST field of the \$HCT data area points to the first RECY in the JES2 private area.

**Serialization:** None

**Function:** Represents recovery data for a control block when rebuilding the control block.  
The RECYDAS is used to rebuild individual DASes and their chaining on the track queue, work queue, and/or neither queue when an error has been detected during validation performed at initialization.

## \$RECY mapping

Table 150. Structure RECYDAS

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	RECYDAS	
0	(0)	CHARACTER	6	RCDVOLID	EBCDIC Volser id
6	(6)	BITSTRING	1	RCDFLAG1	Shadow copy of DASFLAG
7	(7)	BITSTRING	1	RCDFLAG2	Shadow copy of DASFLAG2
8	(8)	BITSTRING	1	RCDFLAG3	Shadow copy of DASFLAG3
9	(9)	BITSTRING	1	RCDFLAG4	Shadow copy of DASFLAG4
10	(A)	BITSTRING	1	RCDFLAG5	Shadow copy of DASFLAG5
11	(B)	BITSTRING	1	RCDFLAG6	Shadow copy of DASFLAG6
12	(C)	BITSTRING	1	RCD7PHAS	Shadow copy of DASPHAS7
13	(D)	BITSTRING	1	RCDFLAG8	Shadow copy of DASFLAG8
14	(E)	SIGNED	2	RCDNOTGP	Number of tracks per group
16	(10)	SIGNED	4	RCDTRK(0)	Valid track range
16	(10)	BITSTRING	2	RCDLOTRK	Lower limit
18	(12)	BITSTRING	2	RCDUPTRK	Upper limit
20	(14)	SIGNED	4	RCDSTRK	Start track for extent
24	(18)	SIGNED	4	RCDMAPO	Offset from \$TGMAP for this extent
28	(1C)	SIGNED	4	(0)	Ensure fullword alignment
28	(1C)	BITSTRING	4	RCDALOCs	Sys. with ext alloc'ed
32	(20)	BITSTRING	4	RCDERROR	Sys. error during alloc
36	(24)	BITSTRING	32	RCDERCDE	Error codes for systems
68	(44)	SIGNED	4	RCDTGNUM	Num of trackgroup in extent
72	(48)	ADDRESS	1	RCDMIGTR	SYSID of migrator system - system housing the migrator subtask. DASMIGTR
73	(49)	CHARACTER	6	RCDTARG	Represents target volser for spool migration. DASTARG.
79	(4F)	BITSTRING	1	RCDFLAGA	Shadow copy of DASFLAGA
80	(50)	CHARACTER	8		Reserved for future use
88	(58)	DBL WORD	8	(0)	Align end of RECY
88	(58)	SIGNED	4	RCDSEND(0)	End of base section



Table 150. Structure RECYDAS (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
The INTERNAL format of the RECY is different depending on the mode of the JES2 checkpoint: - If the JES2 checkpoint is in z/OS 1.2 mode, each checkpointed RCD entry DOES NOT include the expanded area. - If the JES2 checkpoint is in z/OS 1.11 mode, each checkpointed RCD entry DOES include the expanded area.					
88	(58)	X'58'	0	RCDLEN_Z2	"*-RECYDAS" Length of checkpointed z/OS 1.2 mode RECY.
88	(58)	CHARACTER	44	RCDDSN	Data set name for spool data set (only valid in z/OS 1.11 mode)
132	(84)	BITSTRING	4	RCDMAPTR	Mapped track number in target volume. DASMAPTR
132	(84)	X'88'	0	RCDZ11LN	"*-RECYDAS" Length of checkpointed z/OS 1.11 mode RECY.
132	(84)	X'1'	0	RCDVRZ2	"1" RECY control block version for z/OS version 1.2 checkpoint mode.
132	(84)	X'2'	0	RCDVRZ11	"2" RECY control block version for z/OS version 1.11 checkpoint mode.

Table 151. Cross Reference for \$RECY

Name	Offset	Hex Tag
RCDALOCS	1C	0
RCDBSEND	58	
RCDDSN	58	E2E8E2F1
RCDERCDE	24	0
RCDERROR	20	0
RCDFLAGA	4F	
RCDFLAG1	6	
RCDFLAG2	7	
RCDFLAG3	8	
RCDFLAG4	9	
RCDFLAG5	A	
RCDFLAG6	B	
RCDFLAG8	D	
RCDLEN_Z2	58	58
RCDLOTRK	10	
RCDMAPO	18	
RCDMAPTR	84	
RCDMIGTR	48	
RCDNOTGP	E	
RCDSTRK	14	
RCDTARG	49	40404040
RCDTGNUM	44	
RCDTRK	10	



Table 151. Cross Reference for \$RECY (continued)

Name	Offset	Hex Tag
RCDUPTRK	12	
RCDVOLID	0	40404040
RCDVRZ11	84	2
RCDVRZ2	84	1
RCDZ11LN	84	88
RCD7PHAS	C	
RECYDAS	0	

## \$REQJID information

### \$REQJID programming interface information

\$REQJID is a programming interface.

### \$REQJID heading information

<b>Common name:</b>	Request job id specifications
<b>Macro ID:</b>	\$REQJID
<b>DSECT name:</b>	RJI
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	RJI Offset: RJIID Length: L'RJIID
<b>Storage attributes:</b>	Subpool: 0 Key: 1 Residency: Virtual storage is 31 bit. No restriction on real storage
<b>Size:</b>	See RJILEN
<b>Created by:</b>	JES2 Initialization
<b>Pointed to by:</b>	CCTREQJI field of the HCCT data area
<b>Serialization:</b>	Normal PCE dispatch serialization
<b>Function:</b>	Specifications for Request jobid jobs. See below for the information stored.

### \$REQJID mapping

Table 152. Structure RJI

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	RJI	
0	(0)	CHARACTER	4	RJIID	
4	(4)	BITSTRING	6	RJIJLOG	JES log control
10	(A)	BITSTRING	1	RJIFLAG1	Flag byte



Table 152. Structure RJI (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1... ..		RJI1TY6	"B'10000000'" Create type 6 SMF records
		.1... ..		RJI1TY26	"B'01000000'" Create type 26 SMF records
		..1. ....		RJI1UJP	"B'00100000'" Allow IEFUJP exit
10	(A) X'B'		0	RJILEN	"*-RJI"

## \$RESNAM information

### \$RESNAM programming interface information

\$RESNAM is a programming interface.

### \$RESNAM heading information

<b>Common name:</b>	JES2 Resource Name Mapping
<b>Macro ID:</b>	\$RESNAM
<b>DSECT name:</b>	RESNAM
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	None
<b>Storage attributes:</b>	Subpool: N/A Key: N/A Residency: N/A
<b>Size:</b>	See RESJLEN and RESILEN
<b>Created by:</b>	\$RESNAME is normally included as part of another control block, for example \$WAVE.
<b>Pointed to by:</b>	N/A
<b>Serialization:</b>	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:

```
:xmp.
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
:exmp.
:xmp.
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).
:exmp.
```

**\$RESNAM mapping**

Table 153. Structure RESNAM

Offset Dec	Offset Hex	Type	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	RESJJBNM	JOB NAME
26	(1A)	CHARACTER	1	RESJSEP3	separator 3
27	(1B)	CHARACTER	8	RESJJBID	JOB ID
35	(23)	CHARACTER	1	RESJSEP4	separator 4
36	(24)	CHARACTER	8	RESJGRPC	Constant GROUP
44	(2C)	CHARACTER	1	RESJSEP5	separator 5
45	(2D)	CHARACTER	8	RESJGRPN	Groupname
45	(2D)	X'35'	0	RESJLEN	"*-RESJSPL" Length of JESPOOL resource name

The following mapping is used for the ISF DEST authority resource name.

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



Table 153. Structure RESNAM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
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
The following mapping is used for the JESJOBS job modify resource name : ENTITY.nodename.userid.jobname					
0	(0)	SIGNED	4	RESJMRNM(0)	JESJOBS JOB MODIFY RESOURCE NAME
0	(0)	CHARACTER	8	RESJMENT	Entity name
8	(8)	CHARACTER	1	RESJMSE1	separator
9	(9)	CHARACTER	8	RESJMNDE	Node name
17	(11)	CHARACTER	1	RESJMSE2	separator
18	(12)	CHARACTER	8	RESJMUID	user ID
26	(1A)	CHARACTER	1	RESJMSE3	separator
27	(1B)	CHARACTER	8	RESJMJB N	Job name
27	(1B)	X'23'	0	RESJMLEN	"*-RESJMRNM" Length of JESJOBS job modify resource name

Table 154. Cross Reference for \$RESNAM

Name	Offset	Hex Tag
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
RESJMENT	0	40404040
RESJMJB N	1B	40404040
RESJMLEN	1B	23
RESJMNDE	9	40404040
RESJMRNM	0	
RESJMSE1	8	4B
RESJMSE2	11	4B
RESJMSE3	1A	4B



Table 154. Cross Reference for \$RESNAM (continued)

Name	Offset	Hex Tag
RESJMUID	12	40404040
RESJNODE	0	40404040
RESJSEP1	8	4B
RESJSEP2	11	4B
RESJSEP3	1A	4B
RESJSEP4	23	4B
RESJSEP5	2C	4B
RESJSPL	0	
RESJUSER	9	40404040
RESNAM	0	

## \$RESWORK information

### \$RESWORK heading information

<b>Common name:</b>	JES2 Resource Manager PCE Work Area
<b>Macro ID:</b>	\$RESWORK
<b>DSECT name:</b>	PCE (\$RESWORK is part of the PCE DSECT)
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'PCE ' Offset: PCEEYE-PCE Length: 4
<b>Storage attributes:</b>	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
<b>Size:</b>	See symbol RESPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.
<b>Created by:</b>	See \$PCE
<b>Pointed to by:</b>	The \$RESMPCE field of the \$HCT data area See \$PCE for other pointer fields that apply to all PCE types.
<b>Serialization:</b>	Normal PCE dispatch serialization
<b>Function:</b>	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 mapping

Table 155. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
<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>					
336	(150)	ADDRESS	4	RESTBERT	HASP050 time offset - BERTs
340	(154)	SIGNED	2	RESPBERT	HASP050 prct offset - BERTs
342	(156)	SIGNED	2		Reserved
344	(158)	BITSTRING	8	RESOBERT	Info from last 050 msg
352	(160)	ADDRESS	4	RESDBERT	\$HASP050 DOM id for BERTs
356	(164)	ADDRESS	4	RESCMBS	HASP050 ISSUED TIME AND
360	(168)	SIGNED	2	RESPCMBS	ISSUED THRESHOLD FOR CMBS
362	(16A)	SIGNED	2		Reserved
364	(16C)	BITSTRING	8	RESOCMBS	Info from last 050 msg
372	(174)	ADDRESS	4	RESDCMBS	\$HASP050 DOM id for CMBS
376	(178)	ADDRESS	4	RESTLBUF	HASP050 ISSUED TIME AND
380	(17C)	SIGNED	2	RESPLBUF	ISSUED THRESHOLD FOR LBUF
382	(17E)	SIGNED	2		Reserved
384	(180)	BITSTRING	8	RESOLBUF	Info from last 050 msg
392	(188)	ADDRESS	4	RESDLBUF	\$HASP050 DOM id for LBUF
396	(18C)	ADDRESS	4	RETBFX	HASP050 ISSUED TIME AND
400	(190)	SIGNED	2	RESPBFX	ISSUED THRESHOLD FOR CB
402	(192)	SIGNED	2		Reserved
404	(194)	BITSTRING	8	RESOBFX	Info from last 050 msg
412	(19C)	ADDRESS	4	RESDBFX	\$HASP050 DOM id for BFX
416	(1A0)	ADDRESS	4	RETBSCB	HASP050 ISSUED TIME AND
420	(1A4)	SIGNED	2	RESPBSCB	ISSUED THRESHOLD FOR BSC
422	(1A6)	SIGNED	2		Reserved
424	(1A8)	BITSTRING	8	RESOBSCB	Info from last 050 msg
432	(1B0)	ADDRESS	4	RESDBSCB	\$HASP050 DOM id for BSC
436	(1B4)	ADDRESS	4	RESTVTAM	HASP050 ISSUED TIME AND
440	(1B8)	SIGNED	2	RESPVTAM	ISSUED THRESHOLD FOR VTAM
442	(1BA)	SIGNED	2		Reserved
444	(1BC)	BITSTRING	8	RESOVTAM	Info from last 050 msg
452	(1C4)	ADDRESS	4	RESDVTAM	\$HASP050 DOM id for VTAM
456	(1C8)	ADDRESS	4	RESTSMFB	HASP050 ISSUED TIME AND
460	(1CC)	SIGNED	2	RESPSMFB	ISSUED THRESHOLD FOR SMFB
462	(1CE)	SIGNED	2		Reserved
464	(1D0)	BITSTRING	8	RESOSMFB	Info from last 050 msg
472	(1D8)	ADDRESS	4	RESDSMFB	\$HASP050 DOM id for SMFB
476	(1DC)	ADDRESS	4	RESTJQES	HASP050 ISSUED TIME AND
480	(1E0)	SIGNED	2	RESPJQES	ISSUED THRESHOLD FOR JQES
482	(1E2)	SIGNED	2		Reserved



Table 155. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
484	(1E4)	BITSTRING	8	RESOJQES	Info from last 050 msg
492	(1EC)	ADDRESS	4	RESDJQES	\$HASP050 DOM id for JQES
496	(1F0)	ADDRESS	4	RESTJOES	HASP050 ISSUED TIME AND
500	(1F4)	SIGNED	2	RESPJOES	ISSUED THRESHOLD FOR JOES
502	(1F6)	SIGNED	2		Reserved
504	(1F8)	BITSTRING	8	RESOJOES	Info from last 050 msg
512	(200)	ADDRESS	4	RESDJOES	\$HASP050 DOM id for JOES
516	(204)	ADDRESS	4	RESTJNUM	HASP050 ISSUED TIME AND
520	(208)	SIGNED	2	RESPJNUM	ISSUED THRESHOLD FOR JNUM
522	(20A)	SIGNED	2		Reserved
524	(20C)	BITSTRING	8	RESOJNUM	Info from last 050 msg
532	(214)	ADDRESS	4	RESDJNUM	\$HASP050 DOM id for JNUM
536	(218)	ADDRESS	4	RESTTGS	HASP050 ISSUED TIME AND
540	(21C)	SIGNED	2	RESPTGS	ISSUED THRESHOLD FOR TGS
542	(21E)	SIGNED	2		Reserved
544	(220)	BITSTRING	8	RESOTGS	Info from last 050 msg
552	(228)	ADDRESS	4	RESDTGS	\$HASP050 DOM id for TGS
556	(22C)	ADDRESS	4	RESTTTAB	HASP050 ISSUED TIME AND
560	(230)	SIGNED	2	RESPTTAB	ISSUED THRESHOLD FOR TTAB
562	(232)	SIGNED	2		Reserved
564	(234)	BITSTRING	8	RESOTTAB	Info from last 050 msg
572	(23C)	ADDRESS	4	RESDTTAB	\$HASP050 DOM id for TTAB
576	(240)	ADDRESS	4	RESTCKVR	HASP050 ISSUED TIME AND
580	(244)	SIGNED	2	RESPCKVR	ISSUED THRESHOLD FOR CKVR
582	(246)	SIGNED	2		Reserved
584	(248)	BITSTRING	8	RESOCKVR	Info from last 050 msg
592	(250)	ADDRESS	4	RESOCKVR	\$HASP050 DOM id for CKVR
596	(254)	ADDRESS	4	RESTNHBS	HASP050 ISSUED TIME AND
600	(258)	SIGNED	2	RESPNHBS	ISSUED THRESHOLD FOR NHBS
602	(25A)	SIGNED	2		Reserved
604	(25C)	BITSTRING	8	RESONHBS	Info from last 050 msg
612	(264)	ADDRESS	4	RESDNHBS	\$HASP050 DOM id for NHBS
616	(268)	ADDRESS	4	RESTICES	HASP050 ISSUED TIME AND
620	(26C)	SIGNED	2	RESPICES	ISSUED THRESHOLD FOR ICES
622	(26E)	SIGNED	2		Reserved
624	(270)	BITSTRING	8	RESOICES	Info from last 050 msg
632	(278)	ADDRESS	4	RESDICES	\$HASP050 DOM id for ICES
636	(27C)	ADDRESS	4	RESTCMDS	HASP050 ISSUED TIME AND
640	(280)	SIGNED	2	RESPCMDS	ISSUED THRESHOLD FOR CMDS
642	(282)	SIGNED	2		Reserved
644	(284)	BITSTRING	8	RESOCMDS	Info from last 050 msg
652	(28C)	ADDRESS	4	RESDCMDS	\$HASP050 DOM id for CMDS
656	(290)	ADDRESS	4	RESTZJC	HASP050 issued time and
660	(294)	SIGNED	2	RESPZJC	issued threshold for ZJC
662	(296)	SIGNED	2		Reserved



Table 155. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
664	(298)	BITSTRING	8	RESOZJC	Info from last 050 msg
672	(2A0)	ADDRESS	4	RESDZJC	\$HASP050 DOM id for ZJC
676	(2A4)	ADDRESS	4	RESTDRX	HASP050 issued time and
680	(2A8)	SIGNED	2	RESPDRX	issued threshold for DRX
682	(2AA)	SIGNED	2		Reserved
684	(2AC)	BITSTRING	8	RESODRX	Info from last 050 msg
692	(2B4)	ADDRESS	4	RESDDRDX	\$HASP050 DOM id for DRX
The following fields are for various other data area required by the RESMGR processor.					
696	(2B8)	BITSTRING	1	RESMFLAG	RESOURCE MANAGER WORK FLAG
		1... ....		RESWANTQ	"B'10000000" This processor needs the CKPT to process JESPLEX resources
697	(2B9)	BITSTRING	1	RESBERTD	Dispers for HASP052
		1... ....		RESDUMMY	"B'10000000" DISPER valid settings
See \$FLAG4 for \$BERT32 and \$BERT16 definitions					
698	(2BA)	BITSTRING	1		Reserved
699	(2BB)	BITSTRING	1	RESTINT	Resource update interval
700	(2BC)	BITSTRING	12	RESTQE	TIMER QUEUE ELEMENT
712	(2C8)	SIGNED	4		RESERVED FOR FUTURE USE
Temporary FREE/INUSE/TOTAL counts that are computed at the start of RESMGR processing.					
716	(2CC)	SIGNED	4	RESTGFRE	Count of free track groups
720	(2D0)	SIGNED	4	RESJOFRE	Count of free JOEs
724	(2D4)	SIGNED	4	RESTTFRE	Count of free TTABs
728	(2D8)	SIGNED	4	RESTTNUM	Total number of TTABs
732	(2DC)	SIGNED	4	RESJNFRE	Count of free job #'s
736	(2E0)	SIGNED	4	RESJNNUM	Count of assignable job #'s
740	(2E4)	SIGNED	4	RESBRFRE	Count of free BERTs
744	(2E8)	SIGNED	4	RESBRCNT	Total number of BERTs
748	(2EC)	SIGNED	4	RESBABS	Absolute value used for critical BERT shortage M
752	(2F0)	SIGNED	4	RESJQFRE	Count of free JQEs
756	(2F4)	SIGNED	4	RESDXFRE	Count of free DRXs
760	(2F8)	SIGNED	4	RESBDOM	HASP052 DOMID
764	(2FC)	SIGNED	4	RESBSTCK	STCK last HASP052
Work fields for \$HASP050 message					
768	(300)	DBL WORD	8	RESCTIME	Current time - filled in using \$STCK
----- \$BLDMSG MSGID=050,TYPE=WT0,SEPAR=NULL,MF=L					
776	(308)	SIGNED	4	RESBM050(0)	Control block ID
780	(30C)	BITSTRING	4		Console ID
784	(310)	ADDRESS	4		Address of the CART
788	(314)	ADDRESS	4		Pointer for JOBID



Table 155. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
792	(318)	ADDRESS	4		Control block address
796	(31C)	ADDRESS	4		Display routine address
800	(320)	ADDRESS	4	(6)	6 word work area
824	(338)	ADDRESS	4		Caller's R11 value
828	(33C)	BITSTRING	2		ROUT code for Message
830	(33E)	BITSTRING	2		Not used
832	(340)	CHARACTER	4		Message ID
836	(344)	BITSTRING	1		Indicate SEPAR=NULL
837	(345)	ADDRESS	1		Flag byte 1
838	(346)	ADDRESS	1		'DISPER'
839	(347)	ADDRESS	1		Flag byte 2
840	(348)	ADDRESS	1		Flag byte 3
841	(349)	ADDRESS	1		Severity of message
842	(34A)	CHARACTER	8		Symbolic name of dest.
850	(352)	BITSTRING	14		Not used
864	(360)	ADDRESS	4	(0)	Ensure multiple of 4
864	(360)	ADDRESS	2	(0)	
864	(360)	SIGNED	4	RES50WRK(0)	
864	(360)	CHARACTER	4	RESTYPE	Resource name
868	(364)	SIGNED	2	RESRPT	Total percent required

The following fields are maintained in each resource table entry (RESPINFO)

870	(366)	SIGNED	2	RESRPTA	Percent actually in use
872	(368)	SIGNED	2	RESRPTB	Percent waited for
874	(36A)	SIGNED	2	RESUNFRQ	Number of unfulfilled requests for resource
874	(36A)	X'366'	0	RESRPTS	"RESRPTA,*-RESRPTA" Percents from last 050
876	(36C)	BITSTRING	1	RESRSFLG	Resource flags
		1... ....		RESRSHCM	"B'10000000'" HASP050 was to hardcopy
877	(36D)	BITSTRING	1		Reserved
877	(36D)	X'366'	0	RESPINFO	"RESRPTA,*-RESRPTA" Info from last HASP050 msg
878	(36E)	SIGNED	2		Reserved
880	(370)	SIGNED	4	RESNUM	NUMBER DEFINED
884	(374)	SIGNED	4	RESNUMRQ	NUMBER REQUIRED
888	(378)	SIGNED	4	RESNUMA	Number actually in use
892	(37C)	SIGNED	4	RESNUMB	Number waited for
896	(380)	SIGNED	4	RESNUMC	Largest unfulfilled request for resource
900	(384)	BITSTRING	1	RESDISPR	DISPER for \$HASP050 message
		1... ....		RESSHORT	"X'80'" DISPER for short form
		.1.. ....		RESLONG	"X'40'" DISPER for long form
901	(385)	BITSTRING	3		Reserved
901	(385)	X'28'	0	RES50LEN	"*-RES50WRK"



Table 155. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
General work areas --BLMSG \$BLDMSG MF=L Non-050 BLDMSG MF=L					
904	(388)	SIGNED	4	RESBLMSG(0)	Control block ID
908	(38C)	BITSTRING	4		Console ID
912	(390)	ADDRESS	4		Address of the CART
916	(394)	ADDRESS	4		Pointer for JOBID
920	(398)	ADDRESS	4		Control block address
924	(39C)	ADDRESS	4		Display routine address
928	(3A0)	ADDRESS	4	(6)	6 word work area
952	(3B8)	ADDRESS	4		Caller's R11 value
956	(3BC)	BITSTRING	2		ROUT code for Message
958	(3BE)	BITSTRING	2		Not used
960	(3C0)	CHARACTER	4		Message ID
964	(3C4)	CHARACTER	1		Separator character
965	(3C5)	ADDRESS	1		Flag byte 1
966	(3C6)	ADDRESS	1		'DISPER'
967	(3C7)	ADDRESS	1		Flag byte 2
968	(3C8)	ADDRESS	1		Flag byte 3
969	(3C9)	ADDRESS	1		Severity of message
970	(3CA)	CHARACTER	8		Symbolic name of dest.
978	(3D2)	BITSTRING	14		Not used
992	(3E0)	ADDRESS	4	(0)	Ensure multiple of 4
992	(3E0)	ADDRESS	2	(0)	
0	(0)	X'290'	0	RESPCEWL	"*-PCEWORK" LENGTH OF RESOURCE PCE WORK AREA

Table 156. Cross Reference for \$RESWORK

Name	Offset	Hex Tag
PCE	0	
RESBABS	2EC	
RESBDOM	2F8	
RESBERTD	2B9	
RESBLMSG	388	C2D3C440
RESBM050	308	C2D3C440
RESBRCNT	2E8	
RESBRFRE	2E4	
RESBSTCK	2FC	
RESCTIME	300	
RESDBERT	160	
RESDBFX	19C	
RESDBSCB	1B0	
RESDCKVR	250	



Table 156. Cross Reference for \$RESWORK (continued)

Name	Offset	Hex Tag
RESDCMBS	174	
RESDCMDS	28C	
RESDDRXX	2B4	
RESDICES	278	
RESDISPR	384	
RESDJNUM	214	
RESDJ0ES	200	
RESDJQES	1EC	
RESDLBUF	188	
RESDNHBS	264	
RESDSMFB	1D8	
RESDTGS	228	
RESDTTAB	23C	
RESDUMMY	2B9	80
RESDVTAM	1C4	
RESDXFRE	2F4	
RESDZJC	2A0	
RESJNFRE	2DC	
RESJNNUM	2E0	
RESJ0FRE	2D0	
RESJQFRE	2F0	
RESLONG	384	40
RESMFLAG	2B8	
RESNUM	370	
RESNUMA	378	
RESNUMB	37C	
RESNUMC	380	
RESNUMRQ	374	
RESOBERT	158	
RESOBFX	194	
RESOBSCB	1A8	
RESOCKVR	248	
RESOCMBS	16C	
RESOCMDS	284	
RESODRX	2AC	
RESOICES	270	
RESOJNUM	20C	
RESOJ0ES	1F8	
RESOJQES	1E4	



Table 156. Cross Reference for \$RESWORK (continued)

Name	Offset	Hex Tag
RESOLBUF	180	
RESONHBS	25C	
RESOSMFB	1D0	
RESOTGS	220	
RESOTTAB	234	
RESOVTAM	1BC	
RESOZJC	298	
RESPBERT	154	
RESPBFX	190	
RESPBSCB	1A4	
RESPCEWL	0	290
RESPCKVR	244	
RESPCMBS	168	
RESPCMDS	280	
RESPDRX	2A8	
RESPICES	26C	
RESPINFO	36D	366
RESPJNUM	208	
RESPJOES	1F4	
RESPJQES	1E0	
RESPLBUF	17C	
RESPNHBS	258	
RESPRCT	364	
RESPRCTA	366	
RESPRCTB	368	
RESPRCTS	36A	366
RESPSMFB	1CC	
RESPTGS	21C	
RESPTTAB	230	
RESPVTAM	1B8	
RESPZJC	294	
RESRSFLG	36C	
RESRSHCM	36C	80
RESSHORT	384	80
RESTBERT	150	
RESTBFX	18C	
RESTBSCB	1A0	
RESTCKVR	240	
RESTMBS	164	



Table 156. Cross Reference for \$RESWORK (continued)

Name	Offset	Hex Tag
RESTCMDS	27C	
RESTD RX	2A4	
RESTGFRE	2CC	
RESTICES	268	
RESTINT	2BB	
RESTJNUM	204	
RESTJOES	1F0	
RESTJQES	1DC	
RESTLBUF	178	
RESTNHBS	254	
RESTQE	2BC	
RESTSMFB	1C8	
RESTTFRE	2D4	
RESTTGS	218	
RESTTNUM	2D8	
RESTTTAB	22C	
RESTVTAM	1B4	
RESTYPE	360	
RESTZJC	290	
RESUNFRQ	36A	
RESWANTQ	2B8	80
RES50LEN	385	28
RES50WRK	360	

## \$RJCB information

### \$RJCB heading information

<b>Common name:</b>	Job Reader Card Buffer
<b>Macro ID:</b>	\$RJCB
<b>DSECT name:</b>	RJCB
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'RJCB' Offset: RJCBID-RJCB Length: 4
<b>Storage attributes:</b>	Subpool: 1 Key: 1 Residency: Virtual and real storage can be anywhere in private storage of the JES2 address space.
<b>Size:</b>	See RJCBLONG



**Created by:** HASPRDR Input Reader Processor (via \$GETWORK)  
HASPSRIP Input Service Routine (via \$GETMAIN)

**Pointed to by:** JRWRJCB field of the \$JRW data area  
JRWRJCBN field of the \$JRW data area  
JRWRJCBF field of the \$JRW data area  
JRWRJCBM field of the \$JRW data area  
JRWRJCBD field of the \$JRW data area  
RJCBRJCB field of the \$RJCB data area

**Serialization:** None required

**Function:** This macro provides the mapping for the buffer that is used to contain one card that makes up a JCL statement.

## \$RJCB mapping

Table 157. Structure RJCB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	RJCB	Reader JOB Card buffer
0	(0)	CHARACTER	4	RJCBID	Control Block identifier
4	(4)	BITSTRING	1	RJCBFLGT	Flag byte (not cleared)
		1... ..		RJCBTGTW	"B'10000000'" RJCB was \$GETWORKed
4	(4)	X'5'	0	RJCBCSTR	"*" Start of where to clear data area on reuse
5	(5)	BITSTRING	1	RJCBFLG1	Flag byte
		1... ..		RJCB1GEN	"B'10000000'" Generated card image
		.1.. ..		RJCB1XBM	"B'01000000'" Add card to XBM input DS
		..1. ....		RJCB1MSG	"B'00100000'" RJCBCARD contains a msg
		...1 ....		RJCB1CMB	"B'00010000'" RJCBCARD contains a CMB
		.... 1...		RJCB1SCR	"B'00001000'" RJCBCARD contains an SCR
6	(6)	BITSTRING	1	RJCBFLG2	Flag byte
		1... ..		RJCB2XIT	"B'10000000'" Exit has seen card once
		.1.. ..		RJCB2XMO	"B'01000000'" Exit modified card image
		..1. ....		RJCB2XA2	"B'00100000'" Exit 2 added card image
		...1 ....		RJCB2XA4	"B'00010000'" Exit 4 added card image
6	(6)	X'30'	0	RJCB2XAD	"RJCB2XA2+RJCB2XA4" Some exit added card
		.... 1...		RJCB2LOP	"B'00001000'" Last operand is on card
		.... .1..		RJCB2QUO	"B'00000100'" Unfinished quote at end of card
		.... ..1.		RJCB2CCM	"B'00000010'" Card is a cont comment
		.... ...1		RJCB2LST	"B'00000001'" Last card in statement
6	(6)	X'F'	0	RJCB2CRD	"RJCB2LOP+RJCB2QUO+RJCB2CCM+RJCB2LST" Card type
7	(7)	BITSTRING	1	RJCBFLG3	Flag byte
		1... ..		RJCB3LOC	"B'10000000'" An exit modified or added card should not be sent to other nodes or offloaded
		.1.. ..		RJCB31ST	"B'01000000'" First card in statement



Table 157. Structure RJCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	ADDRESS	4	RJCBRJCB	Pointer to next RJCB
RJCBOCRD - is the card image prior to any changes made by an exit RJCBCARD - is the card image with any exit changes RJCBSMSG - if RJCBS1MSG is on, RJCBSMGL contains the message length and RJCBSMSG contains the a message of the format: \$MSG nnn,'text' text is assumed to begin with "-- " RJCBCMB - if RJCBS1CMB is on, RJCBCMB contains a CMB to be processed by JES2. If CMBFLAGC is on the CMB contains a JES2 command, otherwise it contains a message					
12	(C)	SIGNED	4	(0)	Align following
12	(C)	CHARACTER	80	RJCBOCRD	Original card image
92	(5C)	CHARACTER	80	RJCBCARD	Card image
12	(C)	ADDRESS	2	RJCBSMGL	Message length
14	(E)	CHARACTER	120	RJCBSMSG	Message (\$MSGID nnn,'text')
RJCBSMSGF and RJCBSMSG2 must be contiguous					
134	(86)	BITSTRING	1	RJCBSMSGF	Message flags
		1... ....		RJCBSMFRJ	"B'10000000" Send message to RJE
		.1.. ....		RJCBSMFNJ	"B'01000000" Send message to NJE
		..1. ....		RJCBSMFJC	"B'00100000" Write message to JCLIN
		...1 ....		RJCBSMFEX	"B'00010000" Extend local msg with source information
		.... 1...		RJCBSMF1S	"B'00001000" Add msg to front of queue
		.... .1..		RJCBSMERR	"B'00000100" Message is for an error
		.... ..1.		RJCBSMWAR	"B'00000010" Message is a warning
		.... ...1		RJCBSMINF	"B'00000001" Message is informational
135	(87)	BITSTRING	1	RJCBSMSG2	More message flags
		1... ....		RJCBS2DLY	"B'10000000" Delay JCLIN put
		.1.. ....		RJCBS2DEF	"B'01000000" Message is for an error and WTO will be delayed
136	(88)	CHARACTER	4	RJCBCUCMI	4-byte MCS console id
140	(8C)	CHARACTER	8	RJCBCART	Command and response token
12	(C)	BITSTRING	216	RJCBCMB	CMB for JES2 processing
12	(C)	BITSTRING	80	RJCBSR	SCR to be written
92	(5C)	ADDRESS	4	RJCBDDB	Address of related PDD
96	(60)	SIGNED	2	RJCBSROF	Off in SCR for chain track
98	(62)	BITSTRING	1	RJCBSRFR	SCR flag bytes
		1... ....		RJCBSRFR	"B'10000000" Trunc buffer after SCR
232	(E8)	DBL WORD	8	(0)	Alignment
232	(E8)	X'5'	0	RJCBCCLR	"RJCBCSTR,*-RJCBCSTR" Area of RJCB to be cleared
232	(E8)	X'E8'	0	RJCBLENG	"*-RJCB" Length of RJCB in bytes
232	(E8)	X'3A'	0	RJCWORD	"RJCBLENG/4" Length of RJCB in words



Table 158. Cross Reference for \$RJCB

Name	Offset	Hex Tag
RJCB	0	
RJCBCARD	5C	
RJCBCART	8C	
RJCBCLR	E8	5
RJCBCMB	C	
RJCBCSTR	4	5
RJCBFLGT	4	
RJCBFLG1	5	
RJCBFLG2	6	
RJCBFLG3	7	
RJCBID	0	
RJCBLENG	E8	E8
RJCBMERR	86	4
RJCBMFEX	86	10
RJCBMFJC	86	20
RJCBMFNJ	86	40
RJCBMFRJ	86	80
RJCBMF1S	86	8
RJCBMINF	86	1
RJCBMSG	E	
RJCBMSGF	86	
RJCBMSG1	C	
RJCBMSG2	87	
RJCBMWAR	86	2
RJCBOCR1	C	
RJCBPDD1	5C	
RJCBRJCB	8	
RJCBSCR	C	
RJCBSCRF	62	
RJCBSFTR	62	80
RJCBSROF	60	
RJCBTGTW	4	80
RJCBUCMI	88	
RJCBWORD	E8	3A
RJCB1CMB	5	10
RJCB1GEN	5	80
RJCB1MSG	5	20
RJCB1SCR	5	8
RJCB1XBM	5	40



Table 158. Cross Reference for \$RJCB (continued)

Name	Offset	Hex Tag
RJCB2CCM	6	2
RJCB2CRD	6	F
RJCB2DEF	87	40
RJCB2DLY	87	80
RJCB2LOP	6	8
RJCB2LST	6	1
RJCB2QU0	6	4
RJCB2XAD	6	30
RJCB2XA2	6	20
RJCB2XA4	6	10
RJCB2XIT	6	80
RJCB2XM0	6	40
RJCB3LOC	7	80
RJCB31ST	7	40

## \$ROTT information

### \$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: n/a  
 Key: 1  
 Residency: Virtual and real are in 64 bit storage

**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. Each table is stored in a 1M 64 bit segment. The number of entries is based on what fits in 1M of storage.

Table	Anchor	Element size
-----	-----	-----
JQEs	TEDRJQE	ROTEJSIZ
JOEs	TEDRJOE	ROTEJSIZ
Dispatcher	TEDRDISP	ROTEDSIZ
SAPI	TEDRSAPI	ROTESSIZ
CKPT	TEDRCKPT	ROTECSIZ
QGET	TEDRQGET	ROTEQSIZ
HAM	SDBCTRAC	ROTEPSIZ



**Created by:** HASPIRDA

**Pointed to by:** TEDRJQE field of the TED (for the JQE table)  
TEDRJQE field of the TED (for the JOE table)  
TEDRDISP field of the TED (for the \$WAIT table)  
TEDRSAPI field of the TED (for the SAPI table)  
TEDRCKPT field of the TED (for the CKPT table)  
TEDRQGET field of the TED (for the QGET table)  
SDBCTRAC field of the SDB (for the SDB 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  
SAPI - SAPI request processing  
CKPT - CKPT R/W processing  
QGET - QGET JQE processing  
HAM - HAM request processing  
SAVEAREA - \$SAVE/\$RETURN processing  
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 mapping

Table 159. Structure ROTT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ROTT	
Table control					
0	(0)	CHARACTER	4	ROTID	Eye catcher
4	(4)	SIGNED	1	ROTVR	Version
4	(4)	X'1'	0	ROTCVER	"1" Current version
5	(5)	BITSTRING	1	ROTFLAG1	Flags
6	(6)	SIGNED	2	ROTELEN	Length of an element
8	(8)	ADDRESS	8	ROTFIRST	Addr of first element
16	(10)	ADDRESS	8	ROTLAST	Addr of last element
24	(18)	ADDRESS	8	ROTCURR	Addr of current element
32	(20)	BITSTRING	1	ROTMEGS	Size of ROTT table (MEG)
33	(21)	BITSTRING	7		Reserved
40	(28)	DBL WORD	8	ROTELEM(0)	Element definition begins here
40	(28)	X'28'	0	ROTSIZE	"*-ROTT" Length of header portion

Table 160. Structure ROTE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ROTE	, Map trace element
Information common to all trace entries Goal: Make this information identical to the CTRACE element header					
0	(0)	SIGNED	2	ROTELENP	Length of trace element



Table 160. Structure ROTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
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
JES2 component information common to all elements except PHAM trace that starts at ROTE DATA.					
16	(10)	ADDRESS	4	ROTE PCE	PCE address
20	(14)	BITSTRING	1	ROTE FLG1	Flags
		1... ..		ROTE IART	"B'10000000'" Artificial JQE
		.1.. ..		ROTE IJOA	"B'01000000'" Artificial JOE
21	(15)	BITSTRING	1	ROTE EXIT	Current exit number
22	(16)	BITSTRING	2		Reserved for future use
24	(18)	SIGNED	4	ROTE JNUM	Job number
28	(1C)	ADDRESS	4	ROTE OFFS	Offset of JQE/JOE
Service IDs represent the service (e.g.\$QMOD, \$JREM) which caused the trace entry to be built.					
32	(20)	BITSTRING	1	ROTE SERV	Service id
		.... ..		ROT QSRV	"X'00'" First JQE service id
		.... ..		ROT QADD	"X'00'" \$QADD
		.... ..1		ROT QPUT	"X'01'" \$QPUT
		.... ..1.		ROT QREM	"X'02'" \$QREM
		.... ..11		ROT QMOD	"X'03'" \$QMOD
		.... ..1..		ROT QJIX	"X'04'" \$QJIX (alloc new number)
		.... ..1.1		ROT QJIXS	"X'05'" \$QJIX (swap job numbers)
		.... ..11.		ROT GETJL	"X'06'" \$GETJLOK
		.... ..111		ROT FREJL	"X'07'" \$FREJLOK
		.... 1...		ROT RBDC	"X'08'" \$QRBDCCHK (add to queue)
		.... 1..1		ROT QBUSY	"X'09'" \$QBUSY
		.... 1.1.		ROT DOGJQ	"X'0A'" \$DOGJQE
		...1 ....		ROT #SRV	"X'10'" First JOE service id
		...1 ....		ROT #ADD	"X'10'" \$JADD
		...1 ...1		ROT #PUT	"X'11'" \$JPUT
		...1 ..1.		ROT #REM	"X'12'" \$JREM
		...1 ..11		ROT #MOD	"X'13'" \$JMOD
		...1 .1..		ROT #RBDC	"X'14'" \$JRBDCCHK (add to queue)
		...1 1..1		ROT #BUSY	"X'19'" \$JBUSY
		...1 1.1.		ROT #GET	"X'1A'" \$JGET
		...1 1.11		ROT #CAN	"X'1B'" \$JCAN
		...1 11..		ROT #REP	"X'1C'" \$JREP
		...1 11.1		ROT DOGJO	"X'1D'" \$DOGJOE
		..1. ....		ROT DSRV	"X'20'" First \$WAIT service id
		..1. ....		ROT WAIT	"X'20'" \$WAIT
		..1. ...1		ROT DISP	"X'21'" Dispatch
		..1. ..1.		ROT MVS WA	"X'22'" MVS WAIT



Table 160. Structure ROTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	X'24'	0	ROWAIT2	"ROWAIT+4" x'24' \$WAIT with 2 caller info
32	(20)	X'25'	0	ROTDISP2	"ROTDISP+4" x'25' Dispatch with 2 callers
		..11 ....		ROTSAPI	"X'30'" First SAPI service id
		..11 ...1		ROTPUTGT	"X'31'" PUT/GET request
		..11 ..1.		ROTCOUNT	"X'32'" Count request
		..11 ..11		ROTBULKM	"X'33'" Bulk Modify request
		.1.. ....		ROTCCKPT	"X'40'" First CKPT service id
		.1.. ...1		ROTREAD1	"X'41'" Read1 service
		.1.. ..1.		ROTREAD2	"X'42'" Read2 service
		.1.. ..11		ROTPRIMW	"X'43'" Primary write
		.1.. .1..		ROTNPRIM	"X'44'" Skipped primary write
		.1.. .1.1		ROTINTW	"X'45'" Intermediate write
		.1.. .11.		ROTFINW	"X'46'" Final write
		.1.. .111		ROTFMT	"X'47'" CKPT format
		.1.. 1...		ROTRECON	"X'48'" CKPT reconfig
		.1.1 ....		ROTQGET	"X'50'" First QGET service id
		.1.1 ...1		ROTQDEV	"X'51'" Device queue request
		.1.1 ..1.		ROTQJINT	"X'52'" JES initiator request
		.1.1 ..11		ROTQWINT	"X'53'" WLM initiator request
		.1.1 .1..		ROTQPHAS	"X'54'" Job phase queue request
		.11. ....		ROTPHAM	"X'60'" First PHAM service id
		.11. ...1		ROTPGET	"X'61'" PROTGET service
		.11. ..1.		ROTPPUT	"X'62'" PROTPUT service
		.11. ..11		ROTPPNT	"X'63'" PROTPNT service
		.11. .1..		ROTPENDR	"X'64'" PROTENDR service
		.11. .1.1		ROTPGSPC	"X'65'" HGSPC service
		.11. .11.		ROTPFRBA	"X'66'" HFINDRBA service
		.11. .111		ROTPFBUF	"X'67'" HFINDBUF service
		.11. 1...		ROTPSRB	"X'68'" PROTSRB service
		.11. 1..1		ROTPFILB	"X'69'" HFILLBLK service
		.11. 1.1.		ROTPPFUL	"X'6A'" HPUTFULL service
		.11. 1.11		ROTPSETB	"X'6B'" HSETBUFR service
		.11. 11..		ROTPEXCP	"X'6C'" PGEXCPCK service
		.11. 11.1		ROTPZCLN	"X'6D'" IAZENOPR OPER=CLEANUP
		.11. 111.		ROTPZERQ	"X'6E'" IAZENOPR OPER=ENDREQ
		.11. 1111		ROTPZFLS	"X'6F'" IAZENOPR OPER=FLUSH
		.111 ....		ROTPZGBK	"X'70'" IAZENOPR OPER=GETBLK
		.111 ...1		ROTPZGRC	"X'71'" IAZENOPR OPER=GETRECO
		.111 ..1.		ROTPZPNT	"X'72'" IAZENOPR OPER=POINT
		.111 ..11		ROTPZPRM	"X'73'" IAZENOPR OPER=PRIMEBLK
		.111 .1..		ROTPZPUR	"X'74'" IAZENOPR OPER=PUTREC
		.111 .1.1		ROTPZQRY	"X'75'" IAZENOPR OPER=QUERY
		.111 .11.		ROTPZRBK	"X'76'" IAZENOPR OPER=RTNBLK
		1... ....		ROTPPSV	"X'80'" First PSV service id



Table 160. Structure ROTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1... ..1		ROTPSAVE	"X'81'" \$SAVE service
		1... ..1.		ROTPRETN	"X'82'" \$RETURN service
33	(21)	BITSTRING	1	ROTESRV2	Sub service number
34	(22)	BITSTRING	2		Reserved for future use
Start of trace specific data for all traces except PHAM and \$SAVE/\$RETURN traces					
36	(24)	SIGNED	4	ROTESPEC(0)	Start of 'specific' data
JES2 component information common to JOE and JQEs					
36	(24)	ADDRESS	4	ROTECALR	Caller of service
40	(28)	BITSTRING	1	ROTEOQUE	Original queue (or class)
41	(29)	BITSTRING	1	ROTENQUE	New queue (or class)
42	(2A)	BITSTRING	1	ROTEBUSY	Busy byte
43	(2B)	BITSTRING	1	ROTQLOCK	Lock (JQE only)
43	(2B)	X'2B'	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
Field for a dispatcher trace entry Note ROTEEVNT is incremented by one to simplify IPCS code.					
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	ROTECSCCT	CSECT
48	(30)	CHARACTER	8	ROTESEQ	Sequence
56	(38)	CHARACTER	8	ROTE2CST	Secondary CSECT
64	(40)	CHARACTER	8	ROTE2SEQ	Secondary Sequence
72	(48)	BITSTRING	8	ROTEWTME	\$WAIT time or Run time (In microseconds)
80	(50)	BITSTRING	8	ROTEWCPU	CPU Used (\$WAIT Entry) (In microseconds)
80	(50)	BITSTRING	2	ROTEPSTR	\$POST reason (\$DISP entry) See PPBLPOST
104	(68)	DBL WORD	8	ROTEND2(0)	Ensure entry ends on double word boundary
102	(66)	SIGNED	2	ROTEDLEN	Length of element
102	(66)	X'68'	0	ROTEDSIZ	"*-ROTE" Size of one entry
Field for a SAPI trace entry					
36	(24)	CHARACTER	17	ROTEDEVN	SAPI device name
53	(35)	BITSTRING	1	ROTESFL1	Entry flag byte
		1... ..		ROTES1JO	"B'10000000'" SAPID assigned a JOE
		.1.. ..		ROTES1PU	"B'01000000'" JOE was returned
		..1. ....		ROTES1BS	"B'00100000'" TREGROUP was called



Table 160. Structure ROTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1 ....		ROTES1CT	"B'00010000'" Control bit is on
		.... 1...		ROTES1DP	"B'00001000'" No duplicate set
54	(36)	BITSTRING	1	ROTESEL1	SSS2 select flag SSS2SEL1
55	(37)	BITSTRING	1	ROTESEL2	SSS2 select flag SSS2SEL2
56	(38)	BITSTRING	1	ROTESEL3	SSS2 select flag SSS2SEL3
57	(39)	BITSTRING	1	ROTESEL4	SSS2 select flag SSS2SEL4
58	(3A)	BITSTRING	1	ROTESEL5	SSS2 select flag SSS2SEL5
59	(3B)	BITSTRING	1	ROTESEL6	SSS2 select flag SSS2SEL6
60	(3C)	BITSTRING	1	ROTEUFLG	SSS2 disp flag SSS2UFLG
61	(3D)	BITSTRING	1	ROTESMSC	SSS2 misc flag SSS2MSC1
62	(3E)	BITSTRING	1	ROTESDSP	SSS2 disp flag SSS2DISP
63	(3F)	BITSTRING	1	ROTESSP2	SSS2 disp flag SSS2DSP2
64	(40)	BITSTRING	1	ROTESFG1	SAPID flag SAPFLAG1
65	(41)	BITSTRING	1	ROTESFG2	SAPID flag SAPFLAG2
66	(42)	BITSTRING	1	RPTESFGJ	SAPID flag SAPFLAGJ
67	(43)	BITSTRING	1	RPTESFJ2	SAPID flag SAPFLGJ2
68	(44)	SIGNED	4	ROTESAPD	SAPID address
72	(48)	DBL WORD	8	ROTESCPU	CPU time (microseconds)
80	(50)	DBL WORD	8	ROTESRUN	Run time (microseconds)
88	(58)	DBL WORD	8	ROTESQSU	QSUSE time (microseconds)
96	(60)	DBL WORD	8	ROTESELP	Elapsed time (microseconds)
104	(68)	DBL WORD	8	ROTESGET	\$/GET CPU time (microsecs)
112	(70)	DBL WORD	8	ROTESRQT	\$/RQUE time (microseconds)
120	(78)	SIGNED	4	ROTESIOC	I/O count
124	(7C)	SIGNED	4	ROTESRJN	Returned JOE job number
128	(80)	SIGNED	4	ROTESROF	and offset
132	(84)	ADDRESS	4	ROTESTCB	SAPTCB value
136	(88)	SIGNED	4	ROTESRTN	SAPRETN value
140	(8C)	BITSTRING	1	ROTESREA	SAPREAS value
141	(8D)	BITSTRING	2	ROTESASD	ASID from SAPASCB
Following are set if select by CTOKEN (SSS2SCTK) set					
143	(8F)	BITSTRING	1	ROTECTF1	CTK2FLG1 value
144	(90)	SIGNED	4	ROTECTJN	CTK2JOBN value
148	(94)	SIGNED	4	ROTECTDS	CTK2DSID value
152	(98)	CHARACTER	12	ROTECTJI	CTK2JOEI value
168	(A8)	DBL WORD	8	ROTEND3(0)	Ensure entry ends on double word boundary
166	(A6)	SIGNED	2	ROTESLEN	Length of element
166	(A6)	X'A8'	0	ROTESSIZ	"*-ROTE" Size of one entry
Field for a CKPT trace entry					
36	(24)	CHARACTER	8	ROTECKPN	CKPT name
44	(2C)	BITSTRING	1	ROTECKFL	CKPT flags (CTWFLAG1)
45	(2D)	BITSTRING	3		Reserved
48	(30)	SIGNED	4	ROTECLEV	Level number of data set



Table 160. Structure ROTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
52	(34)	SIGNED	4	ROTECKPC	Number of \$CKPTs issued
56	(38)	SIGNED	4	ROTECKPO	\$CKPTs optimization
60	(3C)	SIGNED	4	ROTECPAR	\$QSUSE pain rate
64	(40)	SIGNED	4	ROTECPAV	\$QSUSE pain value
68	(44)	SIGNED	4	ROTECOVH	CKPT access overhead (in microseconds)
72	(48)	SIGNED	4	ROTECPWT	Number of times PCE waited before starting write
76	(4C)	SIGNED	4	ROTECIOT	I/O time (microseconds)
80	(50)	SIGNED	4	ROTECMST	KMAINSB run time
84	(54)	SIGNED	4	ROTECMSC	KMAINSB CPU time
88	(58)	SIGNED	4	ROTEC4KP	4K Page count
92	(5C)	SIGNED	4	ROTECBCT	CB count
Subtask statistics					
96	(60)	SIGNED	4	ROTECTIM	Wall clock to complete req
100	(64)	SIGNED	4	ROTECCPU	CPU time to complete req
104	(68)	SIGNED	4	ROTECIOC	I/O count for request
108	(6C)	SIGNED	4	ROTECCNT	CB count for request
HOLD/DORMANCY information					
112	(70)	SIGNED	4	ROTEHOLD	Current HOLD value
116	(74)	SIGNED	4	ROTEDORM	Current MIN and
120	(78)	SIGNED	4	ROTEMAXD	MAX dormancy values
124	(7C)	SIGNED	4	ROTEAHL D	Actual hold time (FW)
128	(80)	SIGNED	4	ROTEADOR	Actual dormancy (R1)
Reconfiguration data					
36	(24)	CHARACTER	8	ROTERMOD	\$CKPTDIA calling module
44	(2C)	CHARACTER	8	ROTERSEQ	and sequence number
52	(34)	BITSTRING	1	ROTERACT	Action taken
53	(35)	BITSTRING	1	ROTERREA	Reason for call
176	(B0)	DBL WORD	8	ROTEND4(0)	Ensure entry ends on double word boundary
174	(AE)	SIGNED	2	ROTECLEN	Length of element
174	(AE)	X'B0'	0	ROTECSIZ	"*-ROTE" Size of one entry
Field for a QGET trace entry (all times in microseconds)					
36	(24)	CHARACTER	28	ROTEQSNM	Selection name
64	(40)	CHARACTER	8	ROTEQJBN	Selected job name
72	(48)	CHARACTER	1	ROTEQLST	Class list.
72	(48)	X'48'	0	ROTEQSRV	"ROTEQLST,8" Service class for WLM inits
136	(88)	SIGNED	4	ROTEQJNM	GTWJNUM JQEs processed
140	(8C)	SIGNED	4	ROTEQJQN	GTWQJQAN JQAs obtained
144	(90)	SIGNED	4	ROTEQSCR	GTWJSCR WSSERV calls made



Table 160. Structure ROTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
148	(94)	SIGNED	4	ROTEQBST	GTWBEST JQE number selected
152	(98)	SIGNED	4	ROTEQDUP	GTWDUPCT JQEs skipped for duplicate
156	(9C)	SIGNED	4	ROTEQCAT	GTWCATCT JQEs skipped for CAT/WSCQ
160	(A0)	SIGNED	4	ROTEQMAX	GTWJQMAX JQEs defined
164	(A4)	SIGNED	4	ROTEQINU	JQEs in use
168	(A8)	SIGNED	4	ROTEQCB	QGTCB Related CB address
172	(AC)	BITSTRING	1	ROTEQFL1	GTWQFLG1 Entry flag byte
173	(AD)	BITSTRING	1	ROTEQWST	QGTWSTP Work selection type flag
174	(AE)	BITSTRING	1	ROTEQRSP	QGTFRESP QGET response byte
176	(B0)	DBL WORD	8	ROTEQCPU	GTWCPU CPU time in microseconds
184	(B8)	DBL WORD	8	ROTEQTIM	GTWTIME Run time in microseconds
192	(C0)	DBL WORD	8	ROTEQQU	GTWQSUSE QSUSE time in microseconds
200	(C8)	DBL WORD	8	ROTEQELA	GTWELAPS Elapsed time microseconds
208	(D0)	SIGNED	4	ROTEQ4RC	GTWX14RC Exit 14 return code
216	(D8)	DBL WORD	8	ROTEQ4CP	GTWX14CP CPU time in microseconds
224	(E0)	DBL WORD	8	ROTEQ4TM	GTWX14TM Run time in microseconds
232	(E8)	DBL WORD	8	ROTEQ4QS	GTWX14QS QSUSE time in microseconds
240	(F0)	DBL WORD	8	ROTEQ4ET	GTWX14ET Elapsed time microseconds
248	(F8)	SIGNED	4	ROTEQ9SK	GTWX49SK # jobs vetoed by exit 49
252	(FC)	SIGNED	4	ROTEQ9CT	GTWX49CT # times exit 49 called
256	(100)	DBL WORD	8	ROTEQ9CP	GTWX49CP Cumulative CPU time
264	(108)	DBL WORD	8	ROTEQ9TM	GTWX49TM Cumulative run time
272	(110)	DBL WORD	8	ROTEQ9QS	GTWX49QS Cumulative QSUSE time
280	(118)	DBL WORD	8	ROTEQ9ET	GTWX49ET Cumulative elapsed time
288	(120)	SIGNED	4	ROTEQCLR	GTWCALER Address of QGET caller
292	(124)	SIGNED	4	ROTEQTRC	GTWQGTRC \$QGET return code
296	(128)	SIGNED	4	ROTEQSKP	GTWSKIP GTJBSEL skip count
304	(130)	DBL WORD	8	ROTEQSUI	GTWSUIT WLMGOALS Suitability Value
312	(138)	BITSTRING	1	ROTEQSQF	GTWSDQF1 Side Queue entry state
320	(140)	DBL WORD	8	ROTEND5(0)	Ensure entry ends on double word boundary
318	(13E)	SIGNED	2	ROTEQLEN	Length of element
318	(13E)	X'140'	0	ROTEQSI	"*-ROTE" Size of one entry
Field for a PHAM trace entry Contents of the fields depends on the trace entry PHAM control blocks. Added as part of logging the data with a service type of ROTPHAM					
16	(10)	BITSTRING	192	ROTEPJFC	Space for JFCB
208	(D0)	BITSTRING	1152	ROTEPSDB	Space for SDB
1368	(558)	DBL WORD	8	ROTPCBND(0)	Ensure entry ends on double word boundary
1366	(556)	SIGNED	2	ROTEPCBL	Length of element
1366	(556)	X'558'	0	ROTEPCBS	"*-ROTE" Size of PHAM CB entry
Common fields for normal CTRACE entries					
16	(10)	ADDRESS	4	ROTEPADR(0)	Caller's address (Entry)



Table 160. Structure ROTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	SIGNED	4	ROTEPRC	Return code (exit)
20	(14)	SIGNED	4	ROTEPRSN	Reason code (exit)
24	(18)	BITSTRING	8	ROTEPOTK	SDBOBRBA value
32	(20)	BITSTRING	8	ROTEPRCN	Record number
40	(28)	BITSTRING	8	ROTEPDAT(0)	-----+ Data area
40	(28)	SIGNED	4	ROTEDAT1(0)	-----+   4 byte tracking area
40	(28)	SIGNED	2	ROTEDTH1	2 byte area
42	(2A)	SIGNED	2	ROTEDTH2	-----+   2 byte area
44	(2C)	SIGNED	4	ROTEDAT2(0)	-----+   4 byte tracking area
44	(2C)	SIGNED	2	ROTEDTH3(0)	2 byte area
44	(2C)	BITSTRING	1	ROTEDFG1	1 byte flag
45	(2D)	BITSTRING	1	ROTEDFG2	1 byte flag
46	(2E)	SIGNED	2	ROTEDTH4(0)	2 byte area
46	(2E)	BITSTRING	1	ROTEDFG3	1 byte flag
47	(2F)	BITSTRING	1	ROTEDFG4	-----++ 1 byte flag
48	(30)	BITSTRING	90	ROTEPORG	Trace entries (IAZ & PHAM)
PHAM service calls specific data					
48	(30)	BITSTRING	8	ROTEPTRK	Current RBA value
56	(38)	BITSTRING	6	ROTEMQTR	MQTR value
62	(3E)	BITSTRING	2	ROTELRCR	1st LRC record number
64	(40)	SIGNED	2	ROTEPOG1(0)	Org for HFINDBUGF/PGEXCPCK
64	(40)	BITSTRING	1	ROTEPFG1	SDBFLG1 value
65	(41)	BITSTRING	1	ROTEPFG2	SDBFLG2 value
66	(42)	BITSTRING	1	ROTEPFG5	SDBFLG5 value
67	(43)	BITSTRING	1	ROTEPFG9	SDBFLG9 value
68	(44)	BITSTRING	1	ROTEPFGP	SDBFLGP value
69	(45)	BITSTRING	1	ROTESRBC	SDBSRBCT field
70	(46)	BITSTRING	1	ROTEGETC	SDBGETCT field
71	(47)	BITSTRING	1		Reserved
72	(48)	BITSTRING	1	ROTEFLGG	SDBFLGG value
73	(49)	BITSTRING	1	ROTEFGF1	SDBGFLG1 value
74	(4A)	BITSTRING	1	ROTEFGF2	SDBGFLG2 value
75	(4B)	BITSTRING	1	ROTEPFGW	SDBFLGW value
76	(4C)	BITSTRING	6	ROTEMQT2	Secondary MQTR
82	(52)	BITSTRING	8	ROTERBAR	RPLRBAR or SDBBRNUM value
90	(5A)	BITSTRING	6	ROTEMQT3	Third MQTR
96	(60)	SIGNED	2	ROTEOREC	SDBOBRREC value
98	(62)	SIGNED	2	ROTEOPRC	SDBOBPRC value
GET specific fields					
100	(64)	ADDRESS	4	ROTEAPBL	SDBGAPBL address
104	(68)	ADDRESS	4	ROTEAPBE	SDBGAPBE address
108	(6C)	SIGNED	4	ROTEUSEC	PBLUSECT of SDBGAPBL



Table 160. Structure ROTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
HSETBUFR fields					
112	(70)	ADDRESS	4	ROTEPBLA	Passed PBLK address
116	(74)	ADDRESS	4	ROTEPBEA	Passed PBLMQTRE address
120	(78)	SIGNED	4	ROTEPBUC	PBLUSECT of passed PBLK
124	(7C)	BITSTRING	14		Reserved
PUT specific fields					
100	(64)	ADDRESS	4	ROTEPPBF	SDBPBF value
104	(68)	ADDRESS	4	ROTEDEFB	SDBDEFBF value
108	(6C)	BITSTRING	30		Reserved
64	(40)	BITSTRING	6	ROTEGMQT	SDBGMQTR value
70	(46)	BITSTRING	2	ROTEPBLC	PBLMLOC offset
72	(48)	BITSTRING	6	ROTEPBMQ	PBLMQTR value
78	(4E)	BITSTRING	2	ROTEPBRC	HDBARCNT value
80	(50)	BITSTRING	8	ROTEPBRN	HDBARECN/SCRQRECN value
88	(58)	BITSTRING	1	ROTEPBF1	PBLMFLG1 value
89	(59)	BITSTRING	1	ROTEFBF9	PBLMFLG1 value
90	(5A)	BITSTRING	2		Reserved
92	(5C)	ADDRESS	4	ROTEFBPL	SDBGAPBL/ret PBLK addr
96	(60)	ADDRESS	4	ROTEFBPE	SDBGAPBE/ret PBLMQTRE addr
100	(64)	SIGNED	4	ROTEFBUC	PBLUSECT of PBLK returned
104	(68)	BITSTRING	34		Reserved
IAZENSER service call specific data					
48	(30)	BITSTRING	1	ROTESRVI	CSNSERVI flag
49	(31)	BITSTRING	1	ROTELFLG	ENCLGFLG flag
50	(32)	BITSTRING	1	ROTEDFLG	ENDATFLG flag
51	(33)	BITSTRING	1		Reserved
52	(34)	SIGNED	2	ROTEZREC	SDBOBREC value
54	(36)	SIGNED	2	ROTEZPRC	SDBOBPRC value
Fields from logical block #1					
56	(38)	BITSTRING	1	ROTEL1F1	ENDFLAG1 flag
57	(39)	BITSTRING	3	ROTEL1NR	ENDNUMR value
60	(3C)	BITSTRING	8	ROTEL1FR	ENDD1ST value
68	(44)	BITSTRING	8	ROTEL1SR	END2NDNM value
Fields from logical block #2					
76	(4C)	BITSTRING	1	ROTEL2F1	ENDFLAG1 flag
77	(4D)	BITSTRING	3	ROTEL2NR	ENDNUMR value
80	(50)	BITSTRING	8	ROTEL2FR	ENDD1ST value
88	(58)	BITSTRING	8	ROTEL2SR	END2NDNM value
Fields from data block #1					



Table 160. Structure ROTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
96	(60)	BITSTRING	1	ROTED1F1	ENDFLAG1 flag
97	(61)	BITSTRING	3	ROTED1NR	ENDNUMR value
100	(64)	BITSTRING	8	ROTED1FR	ENDD1ST value
108	(6C)	BITSTRING	8	ROTED1SR	END2NDNM value
Fields from data block #2					
116	(74)	BITSTRING	1	ROTED2F1	ENDFLAG1 flag
117	(75)	BITSTRING	3	ROTED2NR	ENDNUMR value
120	(78)	BITSTRING	8	ROTED2FR	ENDD1ST value
128	(80)	BITSTRING	8	ROTED2SR	END2NDNM value
136	(88)	BITSTRING	2		Reserved
IAZENSER OPER=GETRECO/PUTREC					
48	(30)	BITSTRING	1	ROTEGRCF	GETRFLG flag
49	(31)	BITSTRING	3		Reserved
56	(38)	DBL WORD	8	ROTESREC	ENC1SREC value
64	(40)	SIGNED	4	ROTERRC	ENCCUR#/ENC#RECS value
68	(44)	ADDRESS	4	ROTEBUFA	SDBPBF (PUT)/SDBGAPBE (GET)
72	(48)	BITSTRING	66		Reserved
IAZENSER OPER=QUERY fields					
48	(30)	BITSTRING	1	ROTEQTYP	ENGQTYPE value
49	(31)	BITSTRING	1	ROTEQCSR	ENGQCURP value
50	(32)	BITSTRING	1	ROTEQSPA	ENGQSPAN value
51	(33)	BITSTRING	1	ROTEQCAR	ENGQCARR value
52	(34)	BITSTRING	1	ROTEQACT	ENGQACT# value
53	(35)	BITSTRING	1	ROTEQBLK	ENGQBLK# value
54	(36)	BITSTRING	1	ROTEQFLG	ENDFLAG1 flag
55	(37)	BITSTRING	1		Reserved
56	(38)	BITSTRING	8	ROTEQ1ST	ENGQ1ST# field
64	(40)	BITSTRING	4	ROTEQNUM	ENGQNUMR field
68	(44)	BITSTRING	4	ROTEQCUR	ENCQCUR# field
72	(48)	BITSTRING	4	ROTEQTOT	ENCQTOTR field
76	(4C)	BITSTRING	62		Reserved
144	(90)	DBL WORD	8	ROTEND6(0)	Ensure entry ends on double word boundary
142	(8E)	SIGNED	2	ROTEPLEN	Length of element
142	(8E)	X'90'	0	ROTEPSIZ	"*-ROTE" Size of one entry
Field for a SAVEAREA (\$SAVE/\$RETURN) trace entry Contents of the fields depends on the trace entry					
16	(10)	BITSTRING	8	ROTEVRTN	Routine name
24	(18)	BITSTRING	1	ROTEVPSV(0)	Routine ORG point
\$SAVE specific fields					
24	(18)	ADDRESS	4	ROTEVRET	Return address



Table 160. Structure ROTE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
28	(1C)	BITSTRING	1	ROTEVXIR	Exit ID
29	(1D)	BITSTRING	1		Reserved
32	(20)	DBL WORD	8	ROTEND7S(0)	Ensure entry ends on double word boundary
30	(1E)	SIGNED	2	ROTEVSLN	Length of element
30	(1E)	X'20'	0	ROTEVSZE	"*-ROTE" Size of \$SAVE entry
\$RETURN specific fields					
24	(18)	BITSTRING	8	ROTEVRG1	Regs 0, 1
32	(20)	BITSTRING	8	ROTEVRG2	Regs 14, 15
40	(28)	BITSTRING	6		Reserved
48	(30)	DBL WORD	8	ROTEND7R(0)	Ensure entry ends on double word boundary
46	(2E)	SIGNED	2	ROTEVRLN	Length of element
46	(2E)	X'30'	0	ROTEVRZE	"*-ROTE" Size of \$RETURN entry

Table 161. Cross Reference for \$ROTT

Name	Offset	Hex Tag
ROT#ADD	20	10
ROT#BUSY	20	19
ROT#CAN	20	1B
ROT#GET	20	1A
ROT#MOD	20	13
ROT#PUT	20	11
ROT#RBDC	20	14
ROT#REM	20	12
ROT#REP	20	1C
ROT#SRV	20	10
ROT#TYPE	2B	2B
ROTBULK	20	33
ROTCKPT	20	40
ROTCOUNT	20	32
ROTCURR	18	
ROTCVER	4	1
ROTDISP	20	21
ROTDISP2	20	25
ROTDGJ0	20	1D
ROTDGJQ	20	A
ROTDSPV	20	20
ROTE	0	
ROTEADOR	80	
ROTEAHL	7C	



Table 161. Cross Reference for \$ROTT (continued)

Name	Offset	Hex Tag
ROTEAPBE	68	
ROTEAPBL	64	
ROTEBUFA	44	
ROTEBUSY	2A	
ROTECALR	24	
ROTECBCT	5C	
ROTECCNT	6C	
ROTECCPU	64	
ROTECIOC	68	
ROTECIOT	4C	
ROTECKFL	2C	
ROTECKPC	34	
ROTECKPN	24	
ROTECKPO	38	
ROTECLEN	AE	
ROTECLEV	30	
ROTECMSC	54	
ROTECMST	50	
ROTECOVH	44	
ROTECPAR	3C	
ROTECPAV	40	
ROTECPWT	48	
ROTECSCT	28	
ROTECSIZ	AE	B0
ROTECTDS	94	
ROTECTF1	8F	
ROTECTIM	60	
ROTECTJI	98	
ROTECTJN	90	
ROTEC4KP	58	
ROTEDATA	10	
ROTEDAT1	28	
ROTEDAT2	2C	
ROTEDEFB	68	
ROTEDEVN	24	
ROTEDFG1	2C	
ROTEDFG2	2D	
ROTEDFG3	2E	
ROTEDFG4	2F	



Table 161. Cross Reference for \$ROTT (continued)

Name	Offset	Hex Tag
ROTEDFLG	32	
ROTEDLLEN	66	
ROTEDORM	74	
ROTEDSIZ	66	68
ROTEDTH1	28	
ROTEDTH2	2A	
ROTEDTH3	2C	
ROTEDTH4	2E	
ROTED1FR	64	
ROTED1F1	60	
ROTED1NR	61	
ROTED1SR	6C	
ROTED2FR	78	
ROTED2F1	74	
ROTED2NR	75	
ROTED2SR	80	
ROTEEVNT	24	
ROTEEXIT	15	
ROTEFBF9	59	
ROTEFBPE	60	
ROTEFBPL	5C	
ROTEFBUC	64	
ROTEFGF1	49	
ROTEFGF2	4A	
ROTEFLGG	48	
ROTEFLG1	14	
ROTEFMTI	4	
ROTEGETC	46	
ROTEGMQT	40	
ROTEGRCF	30	
ROTEHOLD	70	
ROTEJNUM	18	
ROTEJSIZ	2E	30
ROTELEM	28	
ROTELEN	6	
ROTELENE	2E	
ROTELENP	0	
ROTEFLG	31	
ROTELRCD	3E	



Table 161. Cross Reference for \$ROTT (continued)

Name	Offset	Hex Tag
ROTEL1FR	3C	
ROTEL1F1	38	
ROTEL1NR	39	
ROTEL1SR	44	
ROTEL2FR	50	
ROTEL2F1	4C	
ROTEL2NR	4D	
ROTEL2SR	58	
ROTEMAXD	78	
ROTEMQTR	38	
ROTEMQT2	4C	
ROTEMQT3	5A	
ROTEND	30	
ROTEND2	68	
ROTEND3	A8	
ROTEND4	B0	
ROTEND5	140	
ROTEND6	90	
ROTEND7R	30	
ROTEND7S	20	
ROTENQUE	29	
ROTEOFF	2	
ROTEOFFS	1C	
ROTEOPRC	62	
ROTEOQUE	28	
ROTEOREC	60	
ROTEPADR	10	
ROTEPBEA	74	
ROTEPBF1	58	
ROTEPBLA	70	
ROTEPBLC	46	
ROTEPBMQ	48	
ROTEPBRC	4E	
ROTEPBRN	50	
ROTEPBUC	78	
ROTEPCBL	556	
ROTEPCBS	556	558
ROTEPCE	10	
ROTEPDAT	28	



Table 161. Cross Reference for \$ROTT (continued)

Name	Offset	Hex Tag
ROTEPFGP	44	
ROTEPFGW	4B	
ROTEPFG1	40	
ROTEPFG2	41	
ROTEPFG5	42	
ROTEPFG9	43	
ROTEPJFC	10	
ROTEPLEN	8E	
ROTEPOG1	40	
ROTEPORG	30	
ROTEPOTK	18	
ROTEPPBF	64	
ROTEPRC	10	
ROTEPRCN	20	
ROTEPRSN	14	
ROTEPSDB	D0	
ROTEPSIZ	8E	90
ROTEPSTR	50	
ROTEPTRK	30	
ROTEQACT	34	
ROTEQBLK	35	
ROTEQBST	94	
ROTEQCAR	33	
ROTEQCAT	9C	
ROTEQCB	A8	
ROTEQCLR	120	
ROTEQCPU	B0	
ROTEQCSR	31	
ROTEQCUR	44	
ROTEQDUP	98	
ROTEQELA	C8	
ROTEQFLG	36	
ROTEQFL1	AC	
ROTEQINU	A4	
ROTEQJBN	40	
ROTEQJNM	88	
ROTEQJQN	8C	
ROTEQLEN	13E	
ROTEQLST	48	



Table 161. Cross Reference for \$ROTT (continued)

Name	Offset	Hex Tag
ROTEQMAX	A0	
ROTEQNUM	40	
ROTEQQSU	C0	
ROTEQRSP	AE	
ROTEQSCR	90	
ROTEQSIZ	13E	140
ROTEQSKP	128	
ROTEQSNM	24	
ROTEQSPA	32	
ROTEQSQF	138	
ROTEQSRV	48	48
ROTEQSUI	130	
ROTEQTIM	B8	
ROTEQTOT	48	
ROTEQTRC	124	
ROTEQTyp	30	
ROTEQWST	AD	
ROTEQ1ST	38	
ROTEQ4CP	D8	
ROTEQ4ET	F0	
ROTEQ4QS	E8	
ROTEQ4RC	D0	
ROTEQ4TM	E0	
ROTEQ9CP	100	
ROTEQ9CT	FC	
ROTEQ9ET	118	
ROTEQ9QS	110	
ROTEQ9SK	F8	
ROTEQ9TM	108	
ROTERACT	34	
ROTERBAR	52	
ROTERESO	25	
ROTERMOD	24	
ROTERREA	35	
ROTERREC	40	
ROTERSEQ	2C	
ROTESAPD	44	
ROTESASD	8D	
ROTESCPU	48	



Table 161. Cross Reference for \$ROTT (continued)

Name	Offset	Hex Tag
ROTESDSP	3E	
ROTESELP	60	
ROTESEL1	36	
ROTESEL2	37	
ROTESEL3	38	
ROTESEL4	39	
ROTESEL5	3A	
ROTESEL6	3B	
ROTESEQ	30	
ROTESERV	20	
ROTESFG1	40	
ROTESFG2	41	
ROTESFL1	35	
ROTESGET	68	
ROTESIOC	78	
ROTESLEN	A6	
ROTESMSC	3D	
ROTESPEC	24	
ROTESQSU	58	
ROTESRBC	45	
ROTESREA	8C	
ROTESREC	38	
ROTESRJN	7C	
ROTESROF	80	
ROTESRQT	70	
ROTESRTN	88	
ROTESRUN	50	
ROTESRVI	30	
ROTESRV2	21	
ROTESSIZ	A6	A8
ROTESSP2	3F	
ROTESTCB	84	
ROTES1BS	35	20
ROTES1CT	35	10
ROTES1DP	35	8
ROTES1JO	35	80
ROTES1PU	35	40
ROTETIME	8	
ROTEUFLG	3C	



Table 161. Cross Reference for \$ROTT (continued)

Name	Offset	Hex Tag
ROTEUSEC	6C	
ROTEVPSV	18	
ROTEVRET	18	
ROTEVRG1	18	
ROTEVRG2	20	
ROTEVRLN	2E	
ROTEVRTN	10	
ROTEVRZE	2E	30
ROTEVSLN	1E	
ROTEVSZE	1E	20
ROTEVXIR	1C	
ROTEWCPU	50	
ROTEWFG1	26	
ROTEWTME	48	
ROTEZPRC	36	
ROTEZREC	34	
ROTE1ART	14	80
ROTE1JOA	14	40
ROTE2CST	38	
ROTE2SEQ	40	
ROTFINW	20	46
ROTFIRST	8	
ROTFLAG1	5	
ROTFMT	20	47
ROTFREJL	20	7
ROTGETJL	20	6
ROTID	0	
ROTINTW	20	45
ROTLAST	10	
ROTMEGS	20	
ROTMVSWA	20	22
ROTNPRIM	20	44
ROTPCBND	558	
ROTPENDR	20	64
ROTPEXCP	20	6C
ROTPFBUF	20	67
ROTPFILB	20	69
ROTPFRBA	20	66
ROTPGET	20	61



Table 161. Cross Reference for \$ROTT (continued)

Name	Offset	Hex Tag
ROTPGSPC	20	65
ROTPHAM	20	60
ROTPPFUL	20	6A
ROTPPNT	20	63
ROTPPSV	20	80
ROTPPUT	20	62
ROTPRETN	20	82
ROTPRIMW	20	43
ROTPSAVE	20	81
ROTPSETB	20	6B
ROTPSRB	20	68
ROTPUTGT	20	31
ROTPZCLN	20	6D
ROTPZERQ	20	6E
ROTPZFLS	20	6F
ROTPZGBK	20	70
ROTPZGRC	20	71
ROTPZPNT	20	72
ROTPZPRM	20	73
ROTPZPUR	20	74
ROTPZQRY	20	75
ROTPZRBK	20	76
ROTQADD	20	0
ROTQBUSY	20	9
ROTQDEV	20	51
ROTQGET	20	50
ROTQJINT	20	52
ROTQJIX	20	4
ROTQJIXS	20	5
ROTQLOCK	2B	
ROTQMOD	20	3
ROTQPHAS	20	54
ROTQPUT	20	1
ROTQRBDC	20	8
ROTQREM	20	2
ROTQSRV	20	0
ROTQWINT	20	53
ROTREAD1	20	41
ROTREAD2	20	42



Table 161. Cross Reference for \$ROTT (continued)

Name	Offset	Hex Tag
ROTRECON	20	48
ROTSAPI	20	30
ROTSIZE	28	28
ROTT	0	
ROTVR	4	
ROTWAIT	20	20
ROTWAIT2	20	24
RPTESFGJ	42	
RPTESFJ2	43	

## \$SAFINFO information

### \$SAFINFO programming interface information

\$SAFINFO is a programming interface.

### \$SAFINFO heading information

<b>Common name:</b>	HASP Security Information Block
<b>Macro ID:</b>	\$SAFINFO
<b>DSECT name:</b>	SAFINFO
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'SFI ' Offset: SFIEYE-SAFINFO Length: 4
<b>Storage attributes:</b>	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.
<b>Size:</b>	See SFILN
<b>Created by:</b>	JOBVALM caller and SYSOVFY caller
<b>Pointed to by:</b>	Register one upon entry to the called routine
<b>Serialization:</b>	None
<b>Function:</b>	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 mapping

Table 162. Structure SAFINFO

Offset Dec	Offset Hex	Type	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	SFILEVEL	Control block version
4	(4)	X'1'	0	SFIVRSN	"1" Control block version equate
5	(5)	BITSTRING	1	SFIFLAG1	SAFINFO Flag Byte 1
		1... ....		SFI1PASE	"B'10000000'" NJHGPASS is encrypted
		.1.. ....		SFI1NPSE	"B'01000000'" NJHGNPAS is encrypted
		..1. ....		SFIRESV1	"B'00100000'" Reserved for IBM dvlmt use
		...1 ....		SFI1XMIT	"B'00010000'" XMIT request
		.... 1...		SFI1XBM	"B'00001000'" This is an XBM joblet
		.... .1..		SFI1NORM	"B'00000100'" Get a token for the job
		.... ..1.		SFI1SREQ	"B'00000010'" Get a submitter for the job
		.... ...1		SFI1DFLT	"B'00000001'" Get an undefined user token
6	(6)	BITSTRING	1	SFIFLAG2	SAFINFO Flag Byte 2
		1... ....		SFI2STKN	"B'10000000'" Submitter token in SFITOKEN or returned in JCTTOKEN
		.1.. ....		SFI2VTKN	"B'01000000'" SFITOKEN is a pre-verified token (used by SYSOVFY only)
		..1. ....		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	SFITWA	Address Token Work Area for TOKENBLD
20	(14)	ADDRESS	4	SFIIOT	Address of job's primary alloc IOT
24	(18)	ADDRESS	4	SFITOKEN	Address of input token
28	(1C)	ADDRESS	4	SFIHTOKN	Address of header token
32	(20)	SIGNED	2	SFIHTLEN	Length of header token
34	(22)	BITSTRING	1	SFIHTFLG	Header token flags
		1... ....		SFIHTJOB	"B'10000000'" Header token is job token
35	(23)	BITSTRING	1		Reserved for future use
36	(24)	ADDRESS	4	SFIWAVE	Address of WAVE
40	(28)	CHARACTER	8	SFIPOE	Port Of Entry name
48	(30)	ADDRESS	4	SFITOKA	Submitter token (DCTTOKA)
52	(34)	BITSTRING	1	SFIDEVTP	Device type (DCTDEVTP)
53	(35)	BITSTRING	3		Reserved



Table 162. Structure SAFINFO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
The following fields are available/used by SYSOVFY and ENCRYPTV only.					
56	(38)	ADDRESS	4	SFIPDDB	Address of PDDB for verify
60	(3C)	CHARACTER	8	SFIDSNM	DSNAME or jobname from DSH
The following fields are available/used by ENCRYPTV only. ENCRYPTV also uses SAFINFO fields SFIWAVE - WAVE SFIJCT - JCT SFIPDDB - PDDB doing key label validation on SFITOKEN - SFITOKA - submitter token SFIDSNM - DSNAME value					
68	(44)	ADDRESS	4	SFIPDBE	Address of PDDB for data extract
72	(48)	ADDRESS	4	SFIDLBL	Pointer to caller key label
76	(4C)	ADDRESS	4	SFIDLBL	Pointer to key label length
80	(50)	ADDRESS	4	SFIDSET	Address of DSET
88	(58)	ADDRESS	8	SFIENCO	Addr of created encryption object
96	(60)	BITSTRING	1	SFIENCPL	ENCRYPTV flag
	1... ..			\$ENCRBLT	"B'10000000'" SAFINFO built for ENCRYPTV
	.1.. ..			\$ENCRSKP	"B'01000000'" Skip val checks for setupe of PUT obj for existing ds
	..1. ....			\$ENCRNS	"B'00100000'" Do not check submitter
	...1 ....			\$ENCROW	"B'00010000'" Do not check job owner
	.... 1...			\$ENCRID	"B'00001000'" Auth chk w/supplied userid
	.... .1..			\$ENCROBJ	"B'00000100'" Encryption object built
	.... ..1.			\$ENCRCMP	"B'00000010'" Object for compress only
	.... ...1			\$ENCRNOC	"B'00000001'" Unable to perform requested compression
97	(61)	BITSTRING	1	SFIENCF2	ENCRYPTV flag 2
	1... ..			\$ENCRIGD	"B'10000000'" User-supplied DSKEYLBL ignored
98	(62)	BITSTRING	2		Reserved
SFICONTG maps a contiguous storage area. Caution should be exercised when placing fields within this area.					
98	(62)	X'48'	0	SFICONTL	"SFICEND-SFICBEGN" Length of total contiguous area
98	(62)	X'8'	0	SFIELEML	"8" Length of individual element
98	(62)	X'64'	0	SFICBEGN	"*" Beginning of contiguous area
100	(64)	ADDRESS	1	SFIUIDL	USERID length + value
100	(64)	X'65'	0	SFIUID	"SFIUIDL+1,SFIELEML,C'C'" USERID for this job
109	(6D)	ADDRESS	1	SFIGRPL	GROUP length + value
109	(6D)	X'6E'	0	SFIGRP	"SFIGRPL+1,SFIELEML,C'C'" GROUP for this job
118	(76)	ADDRESS	1	SFIPASL	PASSWORD length + value
118	(76)	X'77'	0	SFIPAS	"SFIPASL+1,SFIELEML,C'C'" PASSWORD for this job
127	(7F)	ADDRESS	1	SFINPASL	New PASSWORD len + value



Table 162. Structure SAFINFO (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
127	(7F)	X'80'	0	SFINPAS	"SFINPASL+1,SFIELEML,C'C'" New PASSWORD for this job
136	(88)	ADDRESS	1	SFIXNDEL	Execution node len + val
136	(88)	X'89'	0	SFIXNDE	"SFIXNDEL+1,SFIELEML,C'C'" Execution node for this job
145	(91)	ADDRESS	1	SFISNDEL	Submittor node len + val
145	(91)	X'92'	0	SFISNDE	"SFISNDEL+1,SFIELEML,C'C'" Submittor node for this job
154	(9A)	ADDRESS	1	SFISUIDL	Submittor USERID len+val
154	(9A)	X'9B'	0	SFISUID	"SFISUIDL+1,SFIELEML,C'C'" Submittor USERID for this job
163	(A3)	ADDRESS	1	SFISGRPL	Submittor GROUP len+val
163	(A3)	X'A4'	0	SFISGRP	"SFISGRPL+1,SFIELEML,C'C'" Submittor GROUP for this job
163	(A3)	X'AC'	0	SFICEND	"*" End of contiguous area
172	(AC)	CHARACTER	8	SFISECL	Security label (blanks if none)
180	(B4)	ADDRESS	4		RESERVED FOR FUTURE IBM USE
180	(B4)	X'64'	0	SFIPHRLM	"100" Max length of pass phrase
184	(B8)	ADDRESS	1	SFIPHRL	Pass phrase + length
184	(B8)	X'B9'	0	SFIPHR	"SFIPHRL+1,SFIPHRLM,C'C'" Pass phrase value
285	(11D)	ADDRESS	1	SFINPHRL	New pass phrase + len
285	(11D)	X'11E'	0	SFINPHR	"SFINPHRL+1,SFIPHRLM,C'C'" New pass phrase value
392	(188)	DBL WORD	8	(0)	End of SAFINFO
392	(188)	X'188'	0	SFILEN	"*-SAFINFO" Length of SAFINFO

Table 163. Cross Reference for \$SAFINFO

Name	Offset	Hex Tag
\$ENCRBLT	60	80
\$ENCRCMP	60	2
\$ENCRID	60	8
\$ENCRIGD	61	80
\$ENCRNOC	60	1
\$ENCRNS	60	20
\$ENCROBJ	60	4
\$ENCROW	60	10
\$ENCRSKP	60	40
SAFINFO	0	
SFICBEGN	62	64
SFICEND	A3	AC
SFICONTL	62	48
SFIDEVTP	34	
SFIDLBL	48	
SFIDLBLL	4C	



Table 163. Cross Reference for \$SAFINFO (continued)

Name	Offset	Hex Tag
SFIDSET	50	
SFIDSNM	3C	
SFIELEML	62	8
SFIENCF2	61	
SFIENCO	58	
SFIENCPL	60	
SFIEYE	0	E2C6C940
SFIFLAG1	5	
SFIFLAG2	6	
SFIFLAG3	7	
SFIGRP	6D	6E
SFIGRPL	6D	
SFIHTFLG	22	
SFIHTJOB	22	80
SFIHTLEN	20	
SFIHTOKN	1C	
SFIIOT	14	
SFIJCT	C	
SFILEN	188	188
SFILEVEL	4	
SFINPAS	7F	80
SFINPASL	7F	
SFINPHR	11D	11E
SFINPHRL	11D	
SFIPAS	76	77
SFIPASL	76	
SFIPDBE	44	
SFIPDDB	38	
SFIPHR	B8	B9
SFIPHRL	B8	
SFIPHRLM	B4	64
SFIPOE	28	
SFIRES CD	8	
SFIRESV1	5	20
SFISECL	AC	40404040
SFISGRP	A3	A4
SFISGRPL	A3	
SFISNDE	91	92
SFISNDEL	91	



Table 163. Cross Reference for \$SAFINFO (continued)

Name	Offset	Hex Tag
SFISUID	9A	9B
SFISUIDL	9A	
SFITOKA	30	
SFITOKEN	18	
SFITWA	10	
SFIUID	64	65
SFIUIDL	64	
SFIVRSN	4	1
SFIWAVE	24	
SFIXNDE	88	89
SFIXNDEL	88	
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 information

### \$SAPID heading information

<b>Common name:</b>	Sysout API data area
<b>Macro ID:</b>	\$SAPID
<b>DSECT name:</b>	SAPID and TJEV
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	\$SAP Offset: SAPEYE-SAPID Length: L'SAPEYE
<b>Storage attributes:</b>	Subpool: n/a Key: 1 Residency: In the jesxSAPI data space in cpool SAPID In the JES2 64-bit private storage in cpool TJEV



<b>Size:</b>	See SAPLEN See TJELEN
<b>Created by:</b>	HASCSAPI (SAPID) HASPJOS (TJEV)
<b>Pointed to by:</b>	SAPID - SSS2JEST field of the IAZSSS2 SSOB extension and by TJESAP SAPID - SAPNEXT field of the SAPID TJEV - SAPTJEVA field of the SAPID
<b>Serialization:</b>	SAPID Compare and Swap TJEV None (only used in JES2 address space)
<b>Function:</b>	The SAPID contains the specifications of the SAPI user for the work desired. It also contains status information of the SAPI "thread". The TJEV holds a vector of bits (one bit per potential JOE). The absense of a TJEV means that the thread has not excluded any JOE. The presense of a TJEV with the bit corresponding to a given work JOE non-zero means that the corresponding JOE is excluded for selection by the thread.

## \$SAPID mapping

Table 164. Structure SAPID

Offset Dec	Offset Hex	Type	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)
		1... ....		SAP1RQUE	"B'10000000" This SAPID managed by RQUE
		.1.. ....		SAP1GAVE	"B'01000000" The last time control was returned to this caller, work was given
		..1. ....		SAP1WSPV	"B'00100000" The SAPWSP has a WSP which has been constructed by \$WSSCAN
		...1 ....		SAP1TERM	"B'00010000" Terminate this SAPID
		.... 1...		SAP1HOT	"B'00001000" RQUE Post because of hot start
		.... .1..		SAP1PCE	"B'00000100" Being processed by SPI PCE
		.... ..1.		SAP1JWEL	"B'00000010" Non-Bulk Modify JWELs have been created
		.... ...1		SAP1BJWL	"B'00000001" JWELs for Bulk Modify have been created
5	(5)	BITSTRING	1	SAPFLAGJ	Flags representing JOE state
		1... ....		SAPJCOMP	"B'10000000" JOE has been completely processed
		.1.. ....		SAPJSAF	"B'01000000" JOE access rejected by SAF
		..1. ....		SAPJALLO	"B'00100000" JOE is allocated (to us)
		...1 ....		SAPJFINI	"B'00010000" JOE is no longer suitable



Table 164. Structure SAPID (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... 1...		SAPJCTRL	"B'00001000'" Do not give new JOE
		.... ..1.		SAPJASH	"B'00000010'" Put JOE in address space hold (do not give to this AS again)
		.... ...1		SAPJBUST	"B'00000001'" At least one PDDb has been busted out of this JOE
6	(6)	BITSTRING	1	SAPFLGJ2	More flags for JOE state
		1... ....		SAPJ2TH	"B'10000000'" Thread hold this data set
		.1.. ....		SAPJ2OLD	"B'01000000'" JOE is no longer valid
		..1. ....		SAPJ2SFP	"B'00100000'" Started with first PDDb in JOE
		.... 1...		SAPJ2SON	"B'00001000'" Last data set obtained with SAF READ access
		.... .1..		SAPJ2PRI	"B'00000100'" One or more data sets prio set via CSPDISP
		.... ..1.		SAPJ2CKV	"B'00000010'" SAPI has written CHK - CHK valid should be set
		.... ...1		SAPJ2CKE	"B'00000001'" I/O error while R/W CHK spool record
7	(7)	SIGNED	1	SAPMSTRV	Level of checkpoint in use when SAIFETCH populated (\$MSTRVER is saved here)
8	(8)	BITSTRING	1	SAPCKEY	SSI caller's key
9	(9)	BITSTRING	3		Reserved for future use
SAPSSS2 is an exact duplicate of the caller's SS0B extension. To gain addressability, specify: USING SSS2,SAPSSS2					
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 SS0B extension
16	(10)	X'38'	0	SAPECBP	"SAPSSS2+SSS2ECBP-SSS2,L'SSS2ECBP,C'A'"
1176	(498)	BITSTRING	4	SAPROUTE	<----+ Selection route code in form nnrr
1180	(49C)	CHARACTER	8	SAPUSER	<----+ and userid
1188	(4A4)	SIGNED	4	SAPJNOLO	Low job number for selection
1192	(4A8)	SIGNED	4	SAPJNOHI	High job number for selection
1196	(4AC)	CHARACTER	8	SAPJCHLO	Low char version of job id
1204	(4B4)	CHARACTER	8	SAPJCHHI	High char version of job id
1212	(4BC)	BITSTRING	4	SAPROUTN	New route code for group requests
1216	(4C0)	CHARACTER	8	SAPUSERN	New userid for group requests
1224	(4C8)	SIGNED	4	SAPRETN	SSOBRETN equivalent
1228	(4CC)	BITSTRING	8	SAPPRIV	Copied to the SSS2
1236	(4D4)	ADDRESS	4	SAPASCB	COM.ASCB address of SAPI address space
1240	(4D8)	BITSTRING	8	SAPASCBT	Address space token
1240	(4D8)	X'4D8'	0	SAPWRASI	"SAPASCBT,L'SAPASCBT" Address space level JWEL
1248	(4E0)	ADDRESS	4	SAPTCB	UAS.TCB address of last SAPID user
1252	(4E4)	ADDRESS	4	SAPOTCB	UAS.Owning TCB address (TCB which created the SAPID)



Table 164. Structure SAPID (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1256	(4E8)	BITSTRING	16	SAPXMTOK	UAS.TCB token of TMP or job step TCB
1272	(4F8)	ADDRESS	4	SAPIOT	UAS.Address of current IOT
1276	(4FC)	ADDRESS	4	SAPIOTPA	UAS.Address of previous IOT
1280	(500)	ADDRESS	4	SAPJCT	UAS.Address of current JCT
1284	(504)	ADDRESS	4	SAPCHK	UAS.Address of current CHK
1288	(508)	ADDRESS	4	SAPWAVE	UAS.Address of WAVE
1292	(50C)	ADDRESS	4	SAPBTOK	UAS.Address of SPOOL browse token
1296	(510)	ADDRESS	4	SAPACCT	UAS.Addr of accounting information and other returned data
1300	(514)	ADDRESS	4	SAPDTKN	UAS.Addr of Data set token
1304	(518)	ADDRESS	4	SAPNJH	UAS.Addr of NJE job header
1308	(51C)	ADDRESS	4	SAPNDH	UAS.Addr of NJE data set header
1312	(520)	ADDRESS	4	SAPSWB	UAS.Addr of SWBTU buffer
1316	(524)	ADDRESS	4	SAPJOA	UAS.Addr of JOA
1320	(528)	ADDRESS	4	SAPDSET	UAS.Addr of current DSET
1324	(52C)	BITSTRING	4		Reserved
1328	(530)	ADDRESS	8	SAPTJEVA	TJE.Addr of JOE exclusion vector for this thread
1336	(538)	BITSTRING	8	SAPSWBTK	SJF token for non-SWA SWBs
1344	(540)	BITSTRING	6	SAPANCHR	MQTR of first regular IOT
1350	(546)	BITSTRING	6	SAPIOTW	MQTR of IOT waiting in the "wings"
1356	(54C)	BITSTRING	6	SAPIOTC	MQTR of current IOT
1362	(552)	BITSTRING	6	SAPIOTF	MQTR of first IOT for JOE
1368	(558)	BITSTRING	6	SAPCDSET	MQTR of current DSET
1374	(55E)	SIGNED	2	SAPPDDBW	Offset of PDDB waiting in the "wings" (See routine CSPNPDDB in HASCSAPI)
1376	(560)	SIGNED	2	SAPPDDBO	Offset of current PDDB
1378	(562)	SIGNED	2	SAPPDDBF	Offset of first PDDB
1380	(564)	SIGNED	4		Reserved for future use
1384	(568)	ADDRESS	4	SAPSJB	COM.Address of SJB
1388	(56C)	ADDRESS	4	SAPSDB	COM.Address of SDB
1392	(570)	ADDRESS	4	SAPMTRB	COM.Address of MTRB representing this request
1396	(574)	SIGNED	4	SAPWKOFF	Offset of work JOE into JOT
1400	(578)	SIGNED	4	SAPWJTOF	Offset of work JOE matching the SYSOUT token
<p>PDDB work areas below have standard JES2 prefix (see \$CSBPRFX in \$HASPEQU).  Work area address point to a start of PDDB in a work area.  Work areas are allocated in the private storage of the address space which initiated SAPI session and therefore is not easily accessible outside of that address space.</p>					
1404	(57C)	ADDRESS	4	SAPPDDB	Copy of currently allocated PDDB
1408	(580)	SIGNED	4	SAPPDDBM	Max size of PDDB which will fit in SAPPDDB
1412	(584)	ADDRESS	4	SAPPDDB2	Copy of PDDB after the current PDDB (if any)
1416	(588)	SIGNED	4	SAPPDB2M	Max size of PDDB which will fit in SAPPDDB2



Table 164. Structure SAPID (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1420	(58C)	SIGNED	4	SAPRJOEO	Offset of \$TREGROUP JOE
1424	(590)	SIGNED	4	(4)	Reserved for future use
1440	(5A0)	BITSTRING	180	SAPWKJOA	Copy of WORK/CHAR JOA (never modified)
1620	(654)	BITSTRING	1	SAPJQEAR	Copy of JQE (no SPOOLs mask)
1620	(654)	X'664'	0	SAPJBKEY	"SAPJQEAR+JQEBKEY-JQE,L'JQEBKEY" Job key
1716	(6B4)	BITSTRING	6	SAPJCTTR	JCT track address (JQYTRAK)
1722	(6BA)	BITSTRING	2		Reserved
1724	(6BC)	SIGNED	4	(0)	Align
1724	(6BC)	BITSTRING	180	SAPWVJOA	Working WORK/CHAR JOA Updated at PUT- GET TIME in the user ADDRESS SPACE
1904	(770)	SIGNED	4	(0)	Align
1904	(770)	BITSTRING	180	SAP2WJOA	2nd Working WORK/CHAR JOA updated at unallocation TIME IN the user address space
2084	(824)	SIGNED	4	(0)	Align
2084	(824)	BITSTRING	80	SAPCTKN	Copy of client or JOE token
2164	(874)	SIGNED	4	(0)	Align
2164	(874)	BITSTRING	576	SAPWSP	Copy of WSP used for \$#GET
2740	(AB4)	BITSTRING	228	SAPWS	EBCDIC WS list
2968	(B98)	DBL WORD	8	(0)	
2968	(B98)	SIGNED	2	SAP#SKIP	Number of PDDBs skipped for SAF reasons
2970	(B9A)	SIGNED	2	SAP#PDDB	Number of PDDBs processed within the current JOE. Meaningless IF SAPJCOMP is on.
2972	(B9C)	SIGNED	2	SAPCLFT	Number of copies left for the last PDDB in this grp
2974	(B9E)	SIGNED	2	SAPONODE	Origin node for selection
2976	(BA0)	BITSTRING	8	SAPRBA	RBA for last PDDB in group (SAP2CHKP must be set)
2984	(BA8)	ADDRESS	1	SAPTYPE	Application call type
2985	(BA9)	CHARACTER	8	SAPAPPL	Application thread name
2993	(BB1)	CHARACTER	8	SAPJNAME	Job name of the application
3001	(BB9)	CHARACTER	8	SAPJOBID	Application jobid
3009	(BC1)	CHARACTER	8	SAPCHKEY	Application CSCB CHKEY
3017	(BC9)	BITSTRING	3		Reserved for future use
3020	(BCC)	SIGNED	4	SAPWRNUM	Unique number identifying this SAPID. Used in JWEL tables. High order bit always on to differentiate from DCT addresses
3024	(BD0)	BITSTRING	1	SAPFLAG2	Miscellaneous flags
		1... ....		SAP2UNAV	"B'10000000" Data set not available
		.1.. ....		SAP2COPY	"B'01000000" User's SSS2 copied to SAPID
		..1. ....		SAP2NPRO	"B'00100000" PDDB at offset SAPPDDB0 not yet given to caller but been SAF verified ==> SAPPDDB2 validated
		...1 ....		SAP2END	"B'00010000" No more PDDBs this JOE
		.... 1...		SAP2NEW	"B'00001000" The JOE associated with this SAPID has changed (either there is a new JOE or there is no JOE)



Table 164. Structure SAPID (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		SAP2NEWS	"B'00000100'" This is NEWS PDDB
		.... .1.		SAP2CHKP	"B'00000010'" SAPRBA is valid
		.... ...1		SAP2NCKU	"B'00000001'" Do not update CHK
3025	(BD1)	CHARACTER	1	SAPMCLAS	Message class of job
3026	(BD2)	BITSTRING	1	SAPFLAG3	More miscellaneous flags information
		1... ....		SAP3VTOK	"B'10000000'" D S obtained via token
		.1.. ....		SAP3DNFJ	"B'01000000'" Do not find new JOE
		..1. ....		SAP3GENC	"B'00100000'" Low job id has a generic
		...1 ....		SAP3GEN1	"B'00010000'" Low job id has generic '*' as the first char
		.... 1...		SAP3SYSH	"B'00001000'" Put JOE in system hold
		.... .1..		SAP3IOEH	"B'00000100'" Put JOE in system hold because of I/O error
		.... ..1.		SAP3TMP	"B'00000010'" XMPOST for TMP envir, SAPXMTOK is TMP token
		.... ...1		SAP3AUTH	"B'00000001'" XMPOSTee is authorized
3027	(BD3)	SIGNED	1	SAPREAS	Reason code for SSS2E0DS
3028	(BD4)	BITSTRING	1	SAPFLAG4	More miscellaneous flags information
		1... ....		SAP4ENCV	"B'10000000'" Encryption validation err
		.1.. ....		SAP4ENCS	"B'01000000'" Encryption services err
3029	(BD5)	BITSTRING	1	SAPFLG4J	SAPFLAG4 on JOE level
3030	(BD6)	BITSTRING	2		Reserved for future use
3032	(BD8)	DBL WORD	8	SAPSTCK	STCK when application last made an SSI call
3040	(BE0)	DBL WORD	8	SAPSTCKP	STCK time when SAPI PCE is done with this SAPID
3048	(BE8)	CHARACTER	64	SAPCJCOR	Job correlator from caller work selection criteria
3112	(C28)	CHARACTER	64	SAPJCOR	Job correlator of selected job
3176	(C68)	CHARACTER	8	SAPRSGRP	Resource group name
Resource management entry for JOEs mapped by LRMENTRY in \$RESGRP.					
3184	(C70)	DBL WORD	8	(0)	
3184	(C70)	BITSTRING	32	SAPJORME	JOE rsrc management entry
3216	(C90)	DBL WORD	8	(0)	Double word aligned
3216	(C90)	X'C90'	0	SAPLEN	"*-SAPID" Length of SAPID dsect

Table 165. Structure TJEV

Offset Dec	Offset Hex	Type	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	1	TJEJOES(0)	Exclusion indicators
312512	(4C4C0)	DBL WORD	8	(0)	Double word aligned
312512	(4C4C0)	X'4C4C0'	0	TJELEN	"*-TJEV" Length of TJEV



Table 166. Cross Reference for \$SAPID

Name	Offset	Hex Tag
SAP#PDDDB	B9A	
SAP#SKIP	B98	
SAPACCT	510	
SAPANCHR	540	
SAPAPPL	BA9	
SAPASCB	4D4	
SAPASCBT	4D8	
SAPBTOK	50C	
SAPCDSET	558	
SAPCHK	504	
SAPCHKEY	BC1	
SAPCJCOR	BE8	
SAPCKEY	8	
SAPCLFT	B9C	
SAPCTKN	824	
SAPDSET	528	
SAPDTKN	514	
SAPECBP	10	38
SAPEYE	0	5BE2C1D7
SAPFLAGJ	5	
SAPFLAG1	4	
SAPFLAG2	BD0	
SAPFLAG3	BD2	
SAPFLAG4	BD4	
SAPFLGJ2	6	
SAPFLG4J	BD5	
SAPID	0	
SAPIOT	4F8	
SAPIOTC	54C	
SAPIOTF	552	
SAPIOTPA	4FC	
SAPIOTW	546	
SAPJALLO	5	20
SAPJASH	5	2
SAPJBKEY	654	664
SAPJBUST	5	1
SAPJCHHI	4B4	
SAPJCHLO	4AC	
SAPJCOMP	5	80



Table 166. Cross Reference for \$SAPID (continued)

Name	Offset	Hex Tag
SAPJCOR	C28	
SAPJCT	500	
SAPJCTRL	5	8
SAPJCTTR	6B4	
SAPJFINI	5	10
SAPJNAME	BB1	
SAPJNOHI	4A8	
SAPJNOLO	4A4	
SAPJOA	524	
SAPJOBID	BB9	
SAPJORME	C70	
SAPJQEAR	654	
SAPJSAF	5	40
SAPJ2CKE	6	1
SAPJ2CKV	6	2
SAPJ2OLD	6	40
SAPJ2PRI	6	4
SAPJ2SFP	6	20
SAPJ2SON	6	8
SAPJ2TH	6	80
SAPLEN	C90	C90
SAPMCLAS	BD1	
SAPMSTRV	7	
SAPMTRB	570	
SAPNDH	51C	
SAPNEXT	C	
SAPNJH	518	
SAPONODE	B9E	
SAPOTCB	4E4	
SAPPDB2M	588	
SAPPDDB	57C	
SAPPDDBF	562	
SAPPDDBM	580	
SAPPDDBO	560	
SAPPDDBW	55E	
SAPPDDB2	584	
SAPPRIV	4CC	
SAPRBA	BA0	
SAPREAS	BD3	



Table 166. Cross Reference for \$SAPID (continued)

Name	Offset	Hex Tag
SAPRETN	4C8	
SAPRJ0E0	58C	
SAPROUTE	498	
SAPROUTN	4BC	
SAPRSGRP	C68	
SAPSDB	56C	
SAPSJB	568	
SAPSSS2	10	
SAPSTCK	BD8	
SAPSTCKP	BE0	
SAPSWB	520	
SAPSWBTK	538	
SAPTCB	4E0	
SAPTJEVA	530	
SAPTYPE	BA8	
SAPUSER	49C	
SAPUSERN	4C0	
SAPWAVE	508	
SAPWJT0F	578	
SAPWKJOA	5A0	
SAPWKOFF	574	
SAPWRASI	4D8	4D8
SAPWRNUM	BCC	
SAPWS	AB4	
SAPWSP	874	
SAPWWJOA	6BC	
SAPXMTOK	4E8	
SAP1BJWL	4	1
SAP1GAVE	4	40
SAP1HOT	4	8
SAP1JWEL	4	2
SAP1PCE	4	4
SAP1RQUE	4	80
SAP1TERM	4	10
SAP1WSPV	4	20
SAP2CHKP	BD0	2
SAP2C0PY	BD0	40
SAP2END	BD0	10
SAP2NCKU	BD0	1



Table 166. Cross Reference for \$SAPID (continued)

Name	Offset	Hex Tag
SAP2NEW	BD0	8
SAP2NEWS	BD0	4
SAP2NPRO	BD0	20
SAP2UNAV	BD0	80
SAP2WJOA	770	
SAP3AUTH	BD2	1
SAP3DNFJ	BD2	40
SAP3GENC	BD2	20
SAP3GEN1	BD2	10
SAP3IOEH	BD2	4
SAP3SYSH	BD2	8
SAP3TMP	BD2	2
SAP3VTOK	BD2	80
SAP4ENCS	BD4	40
SAP4ENCV	BD4	80
TJEEYE	0	E3D1C5E5
TJEJ0ES	8	
TJELEN	4C4C0	4C4C0
TJESAP	4	
TJEV	0	

## \$SBMT information

### \$SBMT heading information

**Common name:** Submit Work Area

**Macro ID:** \$SBMT

**DSECT name:** SBMT

**Owning component:** JES2 (SC1BH)

**Eye-catcher ID:** SBMT  
Offset: SBTID-SBMT  
Length: L'SBTID

**Storage attributes:** Subpool: 0  
Key: 1  
Residency: Located in 31 bit virtual storage in the JES2 address space due to I/O data area restrictions. There is no restriction on the real storage associated with the data area (can be in 64 bit storage)

**Size:** See SBTLEN

**Created by:** HASPIRMA during JES2 initialization

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



**Serialization:** Normal PCE dispatch serialization

**Function:** Serves as the anchor for the data areas needed by the JES2 submit command support. It is mostly used in the JES2 main task, but is passed to a general purpose subtask to submit a member from the SUBMITLIB DD.

## \$SBMT mapping

Table 167. Structure SBMT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SBMT	, Job submit command work area
0	(0)	CHARACTER	4	SBTID	Control block id
4	(4)	ADDRESS	1	SBTVERSN	Control block version
4	(4)	X'1'	0	SBTVERN	"1" Version number
5	(5)	BITSTRING	1	SBTACTFL	Submit command active flags
		1... ....		SBTJBACT	"B'10000000" A job is actively being submitted
		.1... ....		SBTJBERR	"B'01000000" Job encountered an error
6	(6)	BITSTRING	1	SBTFLAG1	Submit option flags
		1... ....		SBT1HOLD	"B'10000000" Hold jobs being submitted
		.1... ....		SBT1NHLD	"B'01000000" Don't hold submitted jobs
7	(7)	BITSTRING	1		Reserved
8	(8)	CHARACTER	8	SBTDEFDD	Default SUBMITLIB name
16	(10)	ADDRESS	4	SBTWA24	24 bit SBMT24 work area
20	(14)	ADDRESS	4	SBTFRDR	File rdr work area (\$FRDR)
24	(18)	ADDRESS	4	SBTDDLIB	Head of the SUBMITLIB PAD chain
28	(1C)	CHARACTER	4	SBTUCMID	4-byte MCS console id
32	(20)	CHARACTER	8	SBTCART	Command and response token
40	(28)	CHARACTER	80	SBTSECT	Command issuer RACF token
120	(78)	ADDRESS	4	SBTIRWD	IRWD address
124	(7C)	SIGNED	4	SBTACB(0)	
124	(7C)	BITSTRING	1		. ACB IDENTIFICATION
125	(7D)	ADDRESS	1		ACB SUBTYPE X04SVHS
126	(7E)	ADDRESS	2		. ACB LENGTH X03004HS
128	(80)	ADDRESS	4		. AMB LIST POINTER
132	(84)	ADDRESS	4		. INTERFACE ROUTINE POINTER
136	(88)	BITSTRING	1		MACRF(1) X04SVHS
137	(89)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
138	(8A)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
139	(8B)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
140	(8C)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
142	(8E)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
144	(90)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS



Table 167. Structure SBMT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
145	(91)	ADDRESS	1		SHARED RESOURCE POOL ID
146	(92)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
148	(94)	BITSTRING	1		. RECFM=A
149	(95)	BITSTRING	1		READ INTEGRITY OPTIONS
150	(96)	BITSTRING	2		. DSORG=ACB
152	(98)	ADDRESS	4		X04SVHS
156	(9C)	ADDRESS	4		. PASSWORD POINTER
160	(A0)	ADDRESS	4		. EXIT LIST POINTER
164	(A4)	CHARACTER	8		
172	(AC)	BITSTRING	1		OFLAGS
173	(AD)	ADDRESS	1		. ERFLAGS
174	(AE)	BITSTRING	1		INFLGS(1) X04SVHS
175	(AF)	BITSTRING	1		INFLGS(2) X04SVHS
176	(B0)	ADDRESS	4		. OPENJ JFCB POINTER
180	(B4)	ADDRESS	4		BUFFER SPACE
184	(B8)	ADDRESS	2		. BLOCK SIZE
186	(BA)	ADDRESS	2		. RECORD SIZE
188	(BC)	ADDRESS	4		. USER WORKAREA POINTER
192	(C0)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
196	(C4)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
200	(C8)	SIGNED	4	SBTRPL(0)	
200	(C8)	ADDRESS	1		RPL IDENTIFICATION
201	(C9)	ADDRESS	1		RPL SUBTYPE X04SVHS
202	(CA)	ADDRESS	1		RPL REQUEST TYPE
203	(CB)	ADDRESS	1		RPL LENGTH X03004
204	(CC)	ADDRESS	4		. POINTER TO PLACEHOLDER
208	(D0)	ADDRESS	4		. ECB
212	(D4)	BITSTRING	1		. STATUS BYTE
213	(D5)	BITSTRING	3		FEEDBACK CODES
216	(D8)	ADDRESS	2		. KEY LENGTH
218	(DA)	ADDRESS	2		. TRANSID
220	(DC)	ADDRESS	4		POINTER TO CONTROL CHARACTER
224	(E0)	ADDRESS	4		
228	(E4)	ADDRESS	4		. POINTER TO TCB
232	(E8)	ADDRESS	4		. POINTER TO RECORD AREA
236	(EC)	ADDRESS	4		. POINTER TO ARGUMENT
240	(F0)	BITSTRING	1		. OPTCD BYTE 1
241	(F1)	BITSTRING	1		
242	(F2)	BITSTRING	1		OPTCD BYTE 3
243	(F3)	BITSTRING	1		OPTCD BYTE 4
244	(F4)	ADDRESS	4		. POINTER TO NEXT RPL
248	(F8)	ADDRESS	4		. RESERVED FOR LOGICAL REC LEN
252	(FC)	ADDRESS	4		. RESERVED FOR BUFFER LENGTH OPTCD BYTES 5-8 X03004



Table 167. Structure SBMT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
256	(100)	BITSTRING	1		
257	(101)	BITSTRING	1		
258	(102)	BITSTRING	1		
259	(103)	BITSTRING	1		
260	(104)	BITSTRING	8		. RBA
268	(10C)	BITSTRING	1		
269	(10D)	ADDRESS	1		ACTIVE INDICATOR
270	(10E)	ADDRESS	2		. MAXIMUM ERROR MSG LENGTH
272	(110)	ADDRESS	4		. RESERVED FOR MESSAGE AREA PTR
272	(110)	X'114'	0	SBTLEN	"*-SBMT" Length of SBMT

Table 168. Structure SBMT24

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SBMT24	, 24 bit job submit work area
0	(0)	CHARACTER	4	SBT24ID	Control block id
4	(4)	ADDRESS	1	SBT24VER	Control block version
4	(4)	X'1'	0	SBT24VRN	"1" Version number
5	(5)	BITSTRING	3		Reserved
8	(8)	BITSTRING	48	SBT24DEB	Internal reader DEB
56	(38)	DBL WORD	8	(0)	
56	(38)	X'38'	0	SBT24LEN	"*-SBMT24" Length of SBMT24

Table 169. Cross Reference for \$SBMT

Name	Offset	Hex Tag
SBMT	0	
SBMT24	0	
SBTACB	7C	
SBTACTFL	5	
SBTCART	20	
SBTDDLIB	18	
SBTDEFDD	8	
SBTFLAG1	6	
SBTFRDR	14	
SBTID	0	E2C2D4E3
SBTIRWD	78	
SBTJBACT	5	80
SBTJBERR	5	40
SBTLEN	110	114
SBTRPL	C8	
SBTSECT	28	
SBTUCMID	1C	
SBTVERN	4	1



Table 169. Cross Reference for \$SBMT (continued)

Name	Offset	Hex Tag
SBTVERSN	4	
SBTWA24	10	
SBT1HOLD	6	80
SBT1NHLD	6	40
SBT24DEB	8	
SBT24ID	0	E2C2F2F4
SBT24LEN	38	38
SBT24VER	4	
SBT24VRN	4	1

## \$SBWA information

### \$SBWA heading information

<b>Common name:</b>	Hasp Spool Browse Work Area
<b>Macro ID:</b>	\$SBWA
<b>DSECT name:</b>	SBWA
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	SBWA Offset: SBWAID-SBWA Length: 4
<b>Storage attributes:</b>	Subpool: 231 Key: 0 Residency: Virtual - Anywhere Real - Anywhere
<b>Size:</b>	See SBWASIZE
<b>Created by:</b>	SVCSR (HASCHAM)
<b>Pointed to by:</b>	SRBPARM field of the SRB data area
<b>Serialization:</b>	None required
<b>Function:</b>	The \$SBWA data area provides the mapping DSECT for the data areas used for passing the "unwritten buffer" from a job's address space to CSA so HASCHAM can pass records to the user.

### \$SBWA mapping

Table 170. Structure SBWA

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SBWA	SPOOL BROWSE WORK AREA
0	(0)	CHARACTER	4	SBWAID	\$SBWA IDENTIFIER
4	(4)	ADDRESS	4	SBWAHCCT	Address of the HCCT
8	(8)	BITSTRING	6	SBWAMQTR(0)	Track address of buffer



Table 170. Structure SBWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	BITSTRING	1	SBWAM	M portion of MQTR
9	(9)	BITSTRING	5	SBWAQTR	QTR portion of MQTR
14	(E)	BITSTRING	6		Reserved
8	(8)	BITSTRING	8	SBWARNUM	Dataset record number (when SBWA2DTB)
16	(10)	BITSTRING	4		Reserved
20	(14)	ADDRESS	4	SBWAFSDB	FIRST SDB OF JOB W/ BUFFER
24	(18)	DBL WORD	8	SBWAKEY(0)	UNIQUE KEY FOR BUFFER
24	(18)	SIGNED	4	SBWAJKEY	JOB KEY FOR BUFFER
28	(1C)	SIGNED	4	SBWADKEY	DATA SET KEY FOR BUFFER
32	(20)	CHARACTER	4	SBWAMEMB	Owning member name
36	(24)	ADDRESS	4	SBWAHSXB	Target HASXB address
40	(28)	BITSTRING	8	SBWASTKN	Target address space token
48	(30)	SIGNED	2	SBWASID	Target ASID
50	(32)	BITSTRING	1	SBWAQNUM	PBF Queue counter
51	(33)	BITSTRING	1	SBWAMEMN	Owning member number
52	(34)	SIGNED	4	SBWABUFL	Length OF IO buffer
56	(38)	BITSTRING	1	SBWAFLG1	UBSR flags
	1... ....			SBWAISDB	"B'10000000'" Invalid SDB
	.1.. ....			SBWAFSD	"B'01000000'" SDB found
	..1. ....			SBWAIBFD	"B'00100000'" Invalid BFD
	...1 ....			SBWAFBFD	"B'00010000'" BFD found
	.... 1...			SBWASRBA	"B'00001000'" SRB active
57	(39)	BITSTRING	1	SBWAFLG2	Data set information
	1... ....			SBWA2SPB	"B'10000000'" Spool browse
	.1.. ....			SBWA2JLG	"B'01000000'" Job log data set
	..1. ....			SBWA2ARQ	"B'00100000'" ASINFO requested
	...1 ....			SBWA2ART	"B'00010000'" ASINFO returned
	.... 1...			SBWA2ATI	"B'00001000'" Transaction Initiator
	.... .1..			SBWA2DTB	"B'00000100'" Data block request
	.... ..1.			SBWA2SPN	"B'00000010'" Looking for spanner
58	(3A)	BITSTRING	2		Reserved for alignment
60	(3C)	ADDRESS	4	SBWALOC	BFDLOC for copied buffer
64	(40)	ADDRESS	4	SBWASCDR	SDBSCDR for copied buffer
Information on Executing Step This information is returned with the unwritten buffer when the data set being read is EVENTLOG.					
68	(44)	BITSTRING	1	SBWAASIN	ASINFO (IAZLGSTP mapped)
Parameter list for SJB ENQ					
280	(118)	CHARACTER	45	SBWAMINN	
328	(148)	SIGNED	4	SBWAENQ(0)	
MACRO-DATE = 03/16/15					
328	(148)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
328	(148)	ADDRESS	4		PREFIX - TCB ADDRESS X02113



Table 170. Structure SBWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
332	(14C)	ADDRESS	4		PREFIX - ECB ADDRESS
332	(14C)	X'150'	0	SBWAENQX	"*" X02113
336	(150)	ADDRESS	1		PELLAST flag byte. X02113
337	(151)	ADDRESS	1		PELMILEN - RNAME length.
338	(152)	BITSTRING	1		
PELFLAG - flag byte 2.					
339	(153)	ADDRESS	1		PELRET - return code byte.
340	(154)	ADDRESS	4		QNAME ADDRESS
344	(158)	ADDRESS	4		RNAME ADDRESS
344	(158)	X'14'	0	SBWAENQL	"*-SBWAENQ"
348	(15C)	BITSTRING	8	SBWAWORK	Work area
ERROR EQUATE VALUES FROM UBSRB AND SVCSRB. When adding a new return code, there are two branch tables which need to be updated: 1. HASCHAM: near label PRSRCBT 2. HASCSISC: near label SIOSRBOK					
356	(164)	SIGNED	4	SBWARETC	RETURN CODE FROM SRB
356	(164)	X'0'	0	SBWAOK	"0" PROCESSING SUCCESSFUL
356	(164)	X'4'	0	SBWABFNF	"4" BUFFER NOT FOUND
356	(164)	X'8'	0	SBWAINBF	"8" INVALID BUFFER
356	(164)	X'C'	0	SBWASDNF	"12" SDB NOT FOUND
356	(164)	X'10'	0	SBWAINSD	"16" INVALID SDB
356	(164)	X'14'	0	SBWASRBF	"20" SRB FAILURE
356	(164)	X'18'	0	SBWANBWA	"24" No storage for SBWA
356	(164)	X'1C'	0	SBWANES1	"28" ESTAE1 not established
356	(164)	X'20'	0	SBWASJNF	"32" SJB not found
356	(164)	X'24'	0	SBWAINHB	"36" Invalid HASB
356	(164)	X'28'	0	SBWAINSJ	"40" Invalid SJB
356	(164)	X'2C'	0	SBWAPRNF	"44" Point record not found
356	(164)	X'30'	0	SBWANDAT	"48" Dataset never written to
356	(164)	X'34'	0	SBWABEND	"52" PROTSRB ABENDEd
356	(164)	X'38'	0	SBWAENQE	"56" Obtained SJB ENQ (error)
356	(164)	X'38'	0	SBWAMXRC	"SBWAENQE" Largest valid return code



Table 170. Structure SBWA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Return status information from IEAMSCHD Values returned in SBWASCCC: 0 Successful Completion 8 SRB ABENDED and there is an associated reason code. 12 SRB ABENDED and there is no associated reason code. 16 SRB Purged by PurgeDQ Processing. 20 Undetermined. The SRB did not complete, but was dispatched -- MEMTERM and/or DATERR probable cause. 24 SRB was not scheduled, Return Code is in SBWASCRC. 28 SRB was not scheduled, ABEND Code is in SBWASCRC. 32 SRB was scheduled, however the caller's workunit was ABENDED while suspended waiting for the SYNCH(YES) SRB to complete. (' <- needed to make PLX compile work) Meaning of SBWASCRC based on SBWASCCC values: SBWASCCC SBWASCRC value 0 Register 15 when SRB completed. 8 ABEND Code (Same format as SDWAABCC.) 12 ABEND Code (Same format as SDWAABCC.) 16 -1 20 -1 24 Return Code propagated from the SUSPEND service. The SRB was not scheduled because this workunit could not be successfully suspended. 28 ABEND Code propagated from the SUSPEND service. The SRB was not scheduled because this workunit could not be successfully suspended. 32 ABEND Code that the workunit received when it was awoken from the Suspend. Meaning of SBWASCRS based on SBWASCCC values: SBWASCCC SBWASCRS value 0 Register 0 when SRB completed. 8 Reason Code associated with an ABEND Code. 12 -1 16 -1 20 -1 24 -1 28 Reason Code associated with a ABEND code from the attempting to suspend the current workunit. 32 Reason Code associated with the ABEND Code that the workunit received when it was awoken from the Suspend.					
360	(168)	ADDRESS	4	SBWASCC@	SRB Completion code address
364	(16C)	ADDRESS	4	SBWASCR@	SRB Return code address
368	(170)	ADDRESS	4	SBWASCS@	SRB Reason code address
372	(174)	SIGNED	4	SBWASCCC	SRB completion code
376	(178)	SIGNED	4	SBWASCRC	SRB Return code
380	(17C)	SIGNED	4	SBWASCRS	SRB Reason code
Parameter list for IEAMSCHD					
384	(180)	ADDRESS	4	SBWASRTN	Address of SRB routine
388	(184)	ADDRESS	4	SBWASBWA	Address of this SBWA
392	(188)	BITSTRING	4		Reserved
396	(18C)	ADDRESS	4	SBWARMTA	Address of RMTR routine
400	(190)	DBL WORD	8	(0)	Align parm list MACDATE -09/26/18-<4>
0	(0)	X'190'	0	M00M1527	"SBWASCHA" ++ IEAMSCHD NAME
400	(190)	DBL WORD	8	SBWASCHA(0)	++ IEAMSCHD PARM LIST



Table 170. Structure SBWA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
400	(190)	BITSTRING	1	SBWASCHA_XVERSION	++ INPUT XVERSION
401	(191)	BITSTRING	1	SBWASCHA_XFLAG1	++ FIELD_LABEL
		.... 1...		SBWASCHA_XENV_STOKEN	"B'00001000'" ++ XENV.STOKEN KEYWORD
		.... .1..		SBWASCHA_XENV_FULLXM	"B'00000100'" ++ XENV.FULLXM KEYWORD
		.... ..1.		SBWASCHA_XENV_PRIMARY	"B'00000010'" ++ XENV.PRIMARY KEYWORD
		.... ...1		SBWASCHA_XENV_HOME	"B'00000001'" ++ XENV.HOME KEYWORD
402	(192)	BITSTRING	1	SBWASCHA_XFLAG2	++ FIELD_LABEL
		1... ....		SBWASCHA_XTRANSFER_YES	"B'10000000'" ++ XTRANSFER.YES KEYWORD
		.1.. ....		SBWASCHA_KEYUSED_SRBIDTOKEN	"B'01000000'" ++ KEYUSED.SRBIDTOKEN KEYWORD
		..1. ....		SBWASCHA_KEYUSED_DUALPOOLTOKEN	"B'00100000'" ++ KEYUSED.DUALPOOLTOKEN KEYWORD
		...1 ....		SBWASCHA_XSYNCH_YES	"B'00010000'" ++ XSYNCH.YES KEYWORD
		.... 1...		SBWASCHA_KEYUSED_KEYVALUE	"B'00001000'" ++ KEYUSED.KEYVALUE KEYWORD
		.... .1..		SBWASCHA_XLLOCK_YES	"B'00000100'" ++ XLLOCK.YES KEYWORD
		.... ..1.		SBWASCHA_XFEATURE_CPMASK	"B'00000010'" ++ XFEATURE.CPMASK KEYWORD
		.... ...1		SBWASCHA_XFEATURE_CRYPT0	"B'00000001'" ++ XFEATURE.CRYPTO KEYWORD
403	(193)	BITSTRING	1	SBWASCHA_XFLAG3	++ FIELD_LABEL
		..1. ....		SBWASCHA_XPRIORITY_CLIENT	"B'00100000'" ++ XPRIORITY.CLIENT KEYWORD
		...1 ....		SBWASCHA_XPRIORITY_ENCLAVE	"B'00010000'" ++ XPRIORITY.ENCLAVE KEYWORD
		.... 1...		SBWASCHA_XPRIORITY_PREEMPT	"B'00001000'" ++ XPRIORITY.PREEMPT KEYWORD
		.... .1..		SBWASCHA_XPRIORITY_CURRENT	"B'00000100'" ++ XPRIORITY.CURRENT KEYWORD
		.... ..1.		SBWASCHA_XPRIORITY_GLOBAL	"B'00000010'" ++ XPRIORITY.GLOBAL KEYWORD
		.... ...1		SBWASCHA_XPRIORITY_LOCAL	"B'00000001'" ++ XPRIORITY.LOCAL KEYWORD
404	(194)	ADDRESS	4	SBWASCHA_XEPADDR	++
408	(198)	BITSTRING	8	SBWASCHA_XTARGETSTOKEN	++
416	(1A0)	CHARACTER	8	SBWASCHA_XENCLAVETOKEN	++
424	(1A8)	BITSTRING	1	SBWASCHA_XMINORPRIORITY	++
425	(1A9)	BITSTRING	1	SBWASCHA_XKEYVALUE	++
426	(1AA)	BITSTRING	2	SBWASCHA_XCPUMASK	++
428	(1AC)	SIGNED	4	SBWASCHA_XPARM	++
432	(1B0)	ADDRESS	4	SBWASCHA_XFRRADDR	++
436	(1B4)	ADDRESS	4	SBWASCHA_XRMTRADDR	++
440	(1B8)	BITSTRING	8	SBWASCHA_XPURGESTOKEN	++
448	(1C0)	ADDRESS	4	SBWASCHA_XPTCBADDR	++
452	(1C4)	BITSTRING	8	SBWASCHA_XCLIENTSTOKEN	++
460	(1CC)	ADDRESS	4	SBWASCHA_XSYNCHCOMPADDR	++
464	(1D0)	ADDRESS	4	SBWASCHA_XSYNCHCODEADDR	++



Table 170. Structure SBWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
468	(1D4)	ADDRESS	4	SBWASCHA_XSYNCHRSNADDR	++
472	(1D8)	CHARACTER	16	SBWASCHA_XDUALPOOLTOKEN	++
472	(1D8)	X'1E8'	0	SBWASCHA_PL_END	"*" ++ END OF BASE PLIST
432	(1B0)	CHARACTER	3	SBWASCHA_XRSV0001	++ RESERVED
435	(1B3)	BITSTRING	1	SBWASCHA_XFRRFLAG	++ FIELD_LABEL
		.... ...1		SBWASCHA_XSDWALOC31_YES	"B'00000001'" ++ XSDWALOC31.YES KEYWORD
488	(1E8)	X'58'	0	SBWASCHAL	"*-SBWASCHA" ++ LENGTH OF PLIST
IEAMSCHD-4					
400	(190)	ADDRESS	4	SBWAPURL(0)	FULLWORD ALIGNMENT
400	(190)	ADDRESS	4		ADDRESS OF ASID
404	(194)	ADDRESS	4		ASIDTCB NOT GIVEN
408	(198)	ADDRESS	4		RMTR NOT GIVEN
408	(198)	X'190'	0	SBWAPURG	"SBWAPURL,*-SBWAPURL" Define field for MF=L
Footprint area for HASCUBSR					
488	(1E8)	DBL WORD	8	SBWASRST(0)	Output area from the SRB for debugging. Keep fields SBWASDBA through SBWABATA together.
488	(1E8)	ADDRESS	4	SBWASDBA	---+ A(SDB) that matches the key
492	(1EC)	ADDRESS	4	SBWAPBF	SDBPBF
496	(1F0)	ADDRESS	4	SBWAPBFI	Inflight PBF buffer address
500	(1F4)	ADDRESS	4	SBWABPTR	Address of found buffer
504	(1F8)	SIGNED	8	SBWABRNU	Record number requested
512	(200)	CHARACTER	8	SBWARBAX(0)	MQTR/Record # field
512	(200)	BITSTRING	6	SBWABTRQ	MQTR of found buffer
518	(206)	BITSTRING	2	SBWABTRC	Record number of 1st LRC
520	(208)	ADDRESS	4	SBWABDBF	Address of invalid buffer
524	(20C)	ADDRESS	4	SBWABDSD	Address of invalid SDB
528	(210)	ADDRESS	4	SBWABATF	BATPBF if checking this Q
532	(214)	ADDRESS	4	SBWABATA	---+ BATPBFA if checking this Q
532	(214)	X'30'	0	SBWAOLEN	"*-SBWASDBA" Length of output area
532	(214)	X'1E8'	0	SBWASROA	"SBWASRST,SBWAOLEN" Output area with length
536	(218)	ADDRESS	4	SBWABUFA	Ptr to data buffer
540	(21C)	SIGNED	4	SBWARSV1	RESERVED
544	(220)	SIGNED	4	SBWARSV2	RESERVED
548	(224)	SIGNED	4	SBWARSV3	RESERVED
552	(228)	BITSTRING	256	SBWAAUTO	Module dynamic area
808	(328)	BITSTRING	1	SBWAEND(0)	
808	(328)	X'328'	0	SBWASIZE	"SBWAEND-SBWA" SIZE OF \$SBWA DATA AREA
808	(328)	X'328'	0	SBWABFFR	"*" LOCATION OF BUFFER FOR MOVE



Table 171. Structure SBWAMQTB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SBWAMQTB	, MQTR/record number table
0	(0)	BITSTRING	1	SBWMQCUR	Current (last used) entry
1	(1)	BITSTRING	15		Reserved
16	(10)		1	SBWMQTBL(0)	Head of table
16	(10)	BITSTRING	6	SBWMQQT	MQTR of HDB
22	(16)	BITSTRING	2	SBWRECRD	Record number in HDB
24	(18)	SIGNED	8	SBWRECN	SDBRECN of first record
24	(18)	X'10'	0	SBWMQELN	"*-SBWMQTBL" Length of an entry
32	(20)	BITSTRING	1	(3)	4 entries total
32	(20)	X'50'	0	SBWMSIZ	"*-SBWAMQTB" Total length of area

Table 172. Cross Reference for \$SBWA

Name	Offset	Hex	Tag
M00M1527	0		190
SBWA	0		
SBWAASIN	44		
SBWAAUTO	228		
SBWABATA	214		
SBWABATF	210		
SBWABDBF	208		
SBWABDSD	20C		
SBWABEND	164		34
SBWABFFR	328		328
SBWABFNF	164		4
SBWABPTR	1F4		
SBWABRNU	1F8		
SBWABTRC	206		
SBWABTRQ	200		
SBWABUFA	218		
SBWABUFL	34		
SBWADKEY	1C		
SBWAEND	328		
SBWAENQ	148		
SBWAENQE	164		38
SBWAENQL	158		14
SBWAENQX	14C		150
SBWAFBFD	38		10
SBWAFLG1	38		
SBWAFLG2	39		
SBWAFSD	38		40



Table 172. Cross Reference for \$SBWA (continued)

Name	Offset	Hex Tag
SBWAFSDB	14	
SBWAHCCT	4	
SBWAHSXB	24	
SBWAIBFD	38	20
SBWAID	0	
SBWAINBF	164	8
SBWAINHB	164	24
SBWAINSD	164	10
SBWAINSJ	164	28
SBWAISDB	38	80
SBWAJKEY	18	
SBWAKEY	18	
SBWALOC	3C	
SBWAM	8	
SBWAMEMB	20	
SBWAMEMN	33	
SBWAMINN	118	E2D7D6D6
SBWAMQTB	0	
SBWAMQTR	8	
SBWAMXRC	164	38
SBWANBWA	164	18
SBWANDAT	164	30
SBWANES1	164	1C
SBWAOK	164	0
SBWAOLEN	214	30
SBWAPBF	1EC	
SBWAPBFI	1F0	
SBWAPRNF	164	2C
SBWAPURG	198	190
SBWAPURL	190	
SBWAQNUM	32	
SBWAQTR	9	
SBWARBAX	200	
SBWARETC	164	
SBWARMTA	18C	
SBWARNUM	8	
SBWARSV1	21C	
SBWARSV2	220	
SBWARSV3	224	



Table 172. Cross Reference for \$SBWA (continued)

Name	Offset	Hex Tag
SBWASBWA	184	
SBWASCC@	168	
SBWASCCC	174	
SBWASCDR	40	
SBWASCHA	190	
SBWASCHA_KEYUSED_DUALPOOLTOKEN	192	20
SBWASCHA_KEYUSED_KEYVALUE	192	8
SBWASCHA_KEYUSED_SRBIDTOKEN	192	40
SBWASCHA_PL_END	1D8	1E8
SBWASCHA_XCLIENTSTOKEN	1C4	
SBWASCHA_XCPUMASK	1AA	
SBWASCHA_XDUALPOOLTOKEN	1D8	
SBWASCHA_XENCLAVETOKEN	1A0	
SBWASCHA_XENV_FULLXM	191	4
SBWASCHA_XENV_HOME	191	1
SBWASCHA_XENV_PRIMARY	191	2
SBWASCHA_XENV_STOKEN	191	8
SBWASCHA_XEPADDR	194	
SBWASCHA_XFEATURE_CPMASK	192	2
SBWASCHA_XFEATURE_CRYPT0	192	1
SBWASCHA_XFLAG1	191	
SBWASCHA_XFLAG2	192	
SBWASCHA_XFLAG3	193	
SBWASCHA_XFRRADDR	1B0	
SBWASCHA_XFRRFLAG	1B3	
SBWASCHA_XKEYVALUE	1A9	
SBWASCHA_XLLOCK_YES	192	4
SBWASCHA_XMINORPRIORITY	1A8	
SBWASCHA_XPARM	1AC	
SBWASCHA_XPRIORITY_CLIENT	193	20
SBWASCHA_XPRIORITY_CURRENT	193	4
SBWASCHA_XPRIORITY_ENCLAVE	193	10
SBWASCHA_XPRIORITY_GLOBAL	193	2
SBWASCHA_XPRIORITY_LOCAL	193	1
SBWASCHA_XPRIORITY_PREEMPT	193	8
SBWASCHA_XPTCBADDR	1C0	
SBWASCHA_XPURGESTOKEN	1B8	
SBWASCHA_XRMTRADDR	1B4	
SBWASCHA_XRSV0001	1B0	



Table 172. Cross Reference for \$SBWA (continued)

Name	Offset	Hex Tag
SBWASCHA_XSDWALOC31_YES	1B3	1
SBWASCHA_XSYNCH_YES	192	10
SBWASCHA_XSYNCHCODEADDR	1D0	
SBWASCHA_XSYNCHCOMPADDR	1CC	
SBWASCHA_XSYNCHRSNADDR	1D4	
SBWASCHA_XTARGETSTOKEN	198	
SBWASCHA_XTRANSFER_YES	192	80
SBWASCHA_XVERSION	190	
SBWASCHAL	1E8	58
SBWASCR@	16C	
SBWASCR	178	
SBWASCRS	17C	
SBWASCS@	170	
SBWASDBA	1E8	
SBWASDNF	164	C
SBWASID	30	
SBWASIZE	328	328
SBWASJNF	164	20
SBWASRBA	38	8
SBWASRBF	164	14
SBWASROA	214	1E8
SBWASRST	1E8	
SBWASRTN	180	
SBWASTKN	28	
SBWAWORK	15C	
SBWA2ARQ	39	20
SBWA2ART	39	10
SBWA2ATI	39	8
SBWA2DTB	39	4
SBWA2JLG	39	40
SBWA2SPB	39	80
SBWA2SPN	39	2
SBWMQCUR	0	
SBWMQELN	18	10
SBWMQQT	10	
SBWMQSI	20	50
SBWMQTBL	10	
SBWRECN	18	
SBWRECRD	16	



# \$SCAND information

## \$SCAND programming interface information

\$SCAND is a programming interface.

## \$SCAND heading information

<b>Common name:</b>	\$SCAND parameter list
<b>Macro ID:</b>	\$SCAND
<b>DSECT name:</b>	SCDW
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	None
<b>Storage attributes:</b>	Subpool: any Key: 0 or 1 Residency: Virtual and real storage are below 2G, in private storage.
<b>Size:</b>	See SCDWLEN
<b>Created by:</b>	\$SCAND list form
<b>Pointed to by:</b>	Register 15 on entry to the \$SCAND service
<b>Serialization:</b>	N/A
<b>Function:</b>	Maps the parameters specified for the \$SCAND service

## \$SCAND mapping

Table 173. Structure SCDW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCDW	Map the \$SCAND DSECT
0	(0)	ADDRESS	8	SCDWFLDP	Address of field to display
0	(0)	X'4'	0	SCDWFLD	"SCDWFLDP+4,4,C'A'" (31 bit field address)
8	(8)	ADDRESS	4	SCDWFLDA	ALET associated with field
12	(C)	SIGNED	2	SCDWFLDL	Field length
14	(E)	BITSTRING	1	SCDWWDTH	Width
15	(F)	BITSTRING	1	SCDWFLGW	Width flags
16	(10)	BITSTRING	1	SCDWOPT1	\$SCAND options 1
		1... ....		SCDW1DBK	"B'10000000'" BREAK OPTION REQUESTED
		.1.. ....		SCDW1DBL	"B'01000000'" DEBLANKING OPTION REQUESTED
		..1. ....		SCDW1DMK	"B'00100000'" MARK TEXT FOR BACKOUT
		...1 ....		SCDW1DCR	"B'00010000'" CRLF was requested
		.... 1...		SCDW1NBN	"B'00001000'" Disallow break on next display at this level
		.... .1..		SCDW1NIN	"B'00000100'" Do not indent this line
17	(11)	BITSTRING	1	SCDWOPT2	\$SCAND options 2
		1... ....		SCDW2LTC	"B'10000000'" Control line->WPLLTFA
		.1.. ....		SCDW2LTL	"B'01000000'" Label line--->WPLLTFB



Table 173. Structure SCDW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		..1. ....		SCDW2LTD	"B'00100000'" Data line---->WPLLTFC
		...1 ....		SCDW2LTE	"B'00010000'" End line---->WPLLTFD
		.... 1...		SCDW2BKS	"B'00001000'" BRKOPT=STAB specified
18	(12)	BITSTRING	1	SCDWCNV1	Conversion flags 1 (Maps to STABCNV1)
19	(13)	BITSTRING	1	SCDWCNV2	Conversion flags 2 (Maps to STABCNV2)
20	(14)	BITSTRING	1	SCDWCNV3	Conversion flags 3 (Maps to STABCNV3)
21	(15)	BITSTRING	1	SCDWCNV4	Conversion flags 4 (Maps to STABCNV4)
22	(16)	SIGNED	4	SCDWMULT	Multiplier
22	(16)	X'1A'	0	SCDWLEN	"*-SCDW" Length of parameter list

Table 174. Cross Reference for \$SCAND

Name	Offset	Hex Tag
SCDW	0	
SCDWCNV1	12	
SCDWCNV2	13	
SCDWCNV3	14	
SCDWCNV4	15	
SCDWFLD	0	4
SCDWFLDA	8	
SCDWFLDL	C	
SCDWFLDP	0	
SCDWFLGW	F	
SCDWLEN	16	1A
SCDWMULT	16	
SCDWOPT1	10	
SCDWOPT2	11	
SCDWWDTH	E	
SCDW1DBK	10	80
SCDW1DBL	10	40
SCDW1DCR	10	10
SCDW1DMK	10	20
SCDW1NBN	10	8
SCDW1NIN	10	4
SCDW2BKS	11	8
SCDW2LTC	11	80
SCDW2LTD	11	20
SCDW2LTE	11	10
SCDW2LTL	11	40



## \$SCANWA information

---

### \$SCANWA programming interface information

\$SCANWA is a programming interface.

### \$SCANWA heading information

<b>Common name:</b>	\$SCAN Facility Work Area
<b>Macro ID:</b>	\$SCANWA
<b>DSECT name:</b>	SCWA, SCWABA, SCWADA, XWCWA
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	"SCWA" or "TEMP" Offset: SCWAID-SCWA Length: L'SCWAID
<b>Storage attributes:</b>	Subpool: 1 Key: 1 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.
<b>Size:</b>	See SCWALEN, SCWALEND
<b>Created by:</b>	\$SCAN macro expansion (normal SCWAs) \$SCANB service (backup SCWAs) \$SCAND service (display SCWAs) Internal \$SCAN processing (filter and subscript SCWAs)
<b>Pointed to by:</b>	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
<b>Serialization:</b>	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 mapping

Table 175. Structure SCWA

Offset Dec	Offset Hex	Type	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
		1... ..		SCWAKNOR	"B'10000000'" NORMAL SCWA
		.1... ..		SCWAKDSP	"B'01000000'" DISPLAY SCWA
		..1. ....		SCWAKBAK	"B'00100000'" BACKUP SCWA
		...1 ....		SCWAKFLT	"B'00010000'" FILTER SCWA
		.... 1...		SCWAKSUB	"B'00001000'" SUBSCRIPT SCWA
33	(21)	BITSTRING	1	SCWAFLG6	GENERAL FLAG BYTE 6
		1... ..		SCWA6GEN	"B'10000000'" FIRST GENERIC ENTRY SAVED
		.1... ..		SCWA6BNO	"B'01000000'" BRKNEXT=NO specified for last \$SCAND call
		..1. ....		SCWA6NCR	"B'00100000'" Creates disallowed due to generic subscript



Table 175. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		...1 ....		SCWA6MSS	"B'00010000'" Multiple subscripts
		.... 1...		SCWA60SS	"B'00001000'" No subscripts specified, '*' assumed
		.... .1..		SCWA6GT	"B'00000100'" Filter should match if >
		.... ..1.		SCWA6LT	"B'00000010'" Filter should match if <
		.... ...1		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)
35	(23)	BITSTRING	1	SCWAEVL	Scan level of error (to be propagated to oldest parent)
36	(24)	ADDRESS	4	SCWARLWA	Related SCWA (eg. set SCWA for display request)
40	(28)	DBL WORD	8	SCWADWRK	Doubleword work area
48	(30)	DBL WORD	8	SCWADWK1	Doubleword work area
56	(38)	DBL WORD	8	SCWADWK2	Doubleword work area
64	(40)	DBL WORD	8	SCWADWK3	Doubleword work area
64	(40)	X'28'	0	SCWAWK16	"SCWADWRK,16,C'X'" 16-byte work area
64	(40)	X'28'	0	SCWAWK20	"SCWADWRK,20,C'X'" 20-byte work area
64	(40)	X'28'	0	SCWAWK24	"SCWADWRK,24,C'X'" 24-byte work area
64	(40)	X'28'	0	SCWAWK32	"SCWADWRK,32,C'X'" 32-byte work area
64	(40)	X'38'	0	SCWAW16B	"SCWADWK2,16,C'X'" 16-byte work area 2
72	(48)	CHARACTER	16	SCWAXWA	SCAN work area
88	(58)	ADDRESS	4	SCWAWCWA	Address of ASAXWC parm list
92	(5C)	ADDRESS	4	SCWAORG1(0)	ORG POINT FOR DISPLAY AND BACKUP SCWA'S
92	(5C)	ADDRESS	4	SCWACR11	\$SCAN caller's R11 value
96	(60)	ADDRESS	8	SCWATOKP	Address of token
96	(60)	X'64'	0	SCWATOKN	"SCWATOKP+4,4,C'A'" and 31 bit version
104	(68)	ADDRESS	4	SCWASTBS	ADDR OF \$SCAN TABLES DOUBLEWORD
108	(6C)	ADDRESS	4	SCWASTMT	ADDR OF PARM STMT TO SCAN
112	(70)	SIGNED	2	SCWASLEN	LEN OF PARM STMT TO SCAN
114	(72)	SIGNED	2	SCWADLEN	LEN OF DISPLAY OUTPUT AREA
116	(74)	ADDRESS	4	SCWADOUT	ADDR OF DISPLAY OUTPUT AREA
120	(78)	ADDRESS	4	SCWADRTN	ADDR OF DISPLAY OUTPUT ROUTINE
124	(7C)	ADDRESS	4	SCWAPWA	ADDR OF PARENT SCWA (0 IN THE OLDEST PARENT SCWA)
128	(80)	ADDRESS	4	SCWANWA	ADDR OF DAUGHTER SCWA (0 in the youngest SCWA)
132	(84)	ADDRESS	4	SCWASTAB	ADDR OF CURRENT SCAN TABLE ENTRY
136	(88)	ADDRESS	4	SCWAOTAB	ADDR OF ORIGINAL SCAN TABLE PRIOR TO ALIAS RESOLUTION
140	(8C)	SIGNED	4		Reserved
144	(90)	ADDRESS	8	SCWACBPC	Addr of control block



Table 175. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
144	(90)	X'94'	0	SCWACBCL	"SCWACBPC+4,4,C'A'" provided by caller
152	(98)	ADDRESS	8	SCWACBPT	Addr of current CB
152	(98)	X'9C'	0	SCWACBAD	"SCWACBPT+4,4,C'A'" and 31 bit version
160	(A0)	ADDRESS	8	SCWAFPTR	Addr of current field
160	(A0)	X'A4'	0	SCWAFAD	"SCWAFPTR+4,4,C'A'" and 31 bit version
168	(A8)	SIGNED	4	SCWACBAL	SCWACBPT CB ALET
172	(AC)	SIGNED	4	SCWAFAL	SCWAFPTR field ALET
176	(B0)	ADDRESS	4	SCWATEMP	ADDR OF TEMPORARY AREA STACK
180	(B4)	SIGNED	4	SCWADAD2	Work storage for \$GETABLE
184	(B8)	ADDRESS	4	SCWAWORK(0)	WORK AREA, USED ONLY BY HIGH LEVEL \$SCAN SUBRTNS/EXITS, E.G. A(STAB) IN FINDTAB, DCTNAME IN FLNDCB
194	(C2)	SIGNED	2	SCWARTCD	RETURN CODE OF PROCESSED REQUEST
196	(C4)	ADDRESS	4	SCWAKPTR	PTR TO CURRENT KEYWORD IN STMT
200	(C8)	ADDRESS	4	SCWARPTR	PTR TO REMAINING TEXT IN STMT
204	(CC)	SIGNED	2	SCWARLEN	LEN OF REMAINING TEXT IN STMT
206	(CE)	SIGNED	2	SCWAILEN	LEN OF CURRENT INPUT STRING
208	(D0)	ADDRESS	4	SCWAIPTR	PTR TO CURRENT INPUT STRING
212	(D4)	SIGNED	4	SCWACNTR	COUNTER FIELD AVAILABLE FOR PRE AND POST-SCAN EXIT USE ONLY
216	(D8)	BITSTRING	1	SCWAEXFL	FLAG BYTE AVAILABLE FOR PRE AND POST-SCAN EXIT USE ONLY (see also SCWAEXF2)
	1... ..			SCWAJNET	"B'10000000'" ON JES2 NETACCT CHAIN SEARCH
	.1.. ..			SCWARMTA	"B'01000000'" RMT CURRENTLY AUTOLOG MODE
	..1. ....			SCWARTRY	"B'00100000'" RETRY INDICATOR
	...1 ....			SCWARMTL	"B'00010000'" \$T/\$ADD RMT spec LINE
	.... 1...			SCWARMSh	"B'00001000'" \$T/\$ADD RMT spec SHARABLE
	.... .1..			SCWACPCT	"B'00000100'" \$T RPR/RPU specified CMPCT
	.... ..1.			SCWACMPR	"B'00000010'" \$T RPR/RPU specif COMPRESS
	1... ..			SCWA\$IND	"B'10000000'" \$T MEMBER,IND=YES/NO
Definitions used by \$TJ command					
	1... ..			SCWA\$TJP	"B'10000000'" \$TJ PRIORITY specified
	.1.. ..			SCWA\$TJC	"B'01000000'" \$TJ CLASS specified
	..1. ....			SCWA\$TJX	"B'00100000'" \$TJ XEQ specified
	...1 ....			SCWA\$TJS	"B'00010000'" \$TJ SRVCLASS specified
	.... 1...			SCWA\$TJE	"B'00001000'" \$TJ SCHENV specified
	.... .1..			SCWA\$TJI	"B'00000100'" \$TJ SPIN specified
	.... ..1.			SCWA\$TJD	"B'00000010'" \$TJ SPIN,DDNAME= specified
	.... ...1			SCWA\$TJU	"B'00000001'" \$TJ PURGE specified



Table 175. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Definitions used by \$TOJ/POJ/COJ commands					
	1... ..			SCWA\$TOX	"B'10000000" Skip to next JQE
	.1.. ..			SCWA\$TOO	"B'01000000" OUTGRP= optimization
EQU B'00010000' 'PROTECTED' specified					
	.... 1..			SCWA\$TOG	"B'00001000" Generics in OUTGRP=
The following definitions are used by \$C and \$P job commands and must match parameters passed in R0 to the \$JCAN macro					
	...1 ..			SCWA\$JPR	"B'00010000" 'PROTECTED' specified
	.1.. ..			SCWA\$CDU	"B'01000000" 'DUMP' specified
EQU B'00100000' Internal \$JCAN use					
	.... 1..			SCWA\$FRC	"B'00001000" 'FORCE' was specified
	.... .1..			SCWA\$ARM	"B'00000100" 'ARMRESTART' specified
	.... ...1			SCWA\$CPU	"B'00000001" Cancel with purge
	.... ..1.			SCWA\$POE	"B'00000010" PURGE,ONERROR specified
Definitions used by \$EJ command					
	.... .1..			SCWA\$EST	"B'00000100" \$EJOB,STEP requested
	.... ..1.			SCWA\$ESH	"B'00000010" \$EJOB,STEP,HOLD requested
	.... ...1			SCWA\$ECA	"B'00000001" \$EJOB,CANCEL requested
The following are used for \$T/\$D JOBCCLASS(x)					
	1... ..			SCWASTMD	"B'10000000" JOBCCLASS MODE= changed
	.1.. ..			SCWACATL	"B'01000000" Looping through CATs
The following is used for \$T NODE					
	1... ..			SCWA\$NTC	"B'10000000" Checkpointed attribute changed
The following is used for \$T NJEDEF					
	1... ..			SCWA\$NNM	"B'10000000" Checkpointed attribute changed
The following is used for \$SJ JOBCORR					
	1... ..			SCWA\$COR	"B'10000000" Job correlator filter provided
The following is used for \$D DUPJOB command					
	.1.. ..			SCWADJBL	"B'01000000" Looping through DJBs
The following is used for SPL cmds with the RESERVED keyword.					
	1... ..			SCWA\$RSV	"B'10000000" Prescan was called for =RESERVED keyword



Table 175. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
The following is used for \$D and \$T LIMITS					
		1... ....		SCWA\$TLY	"B'10000000" PRIV=ON requested
		.1.. ....		SCWA\$TLN	"B'01000000" PRIV=OFF requested
		..1. ....		SCWA\$TLS	"B'00100000" SMALLENV requested
		...1 ....		SCWA\$DMY	"B'00010000" MASVIEW=ON requested
		.... 1...		SCWA\$DMN	"B'00001000" MASVIEW=OFF requested
The following is used for \$T xxxxLIB DD=					
		1... ....		SCWA\$TDS	"B'10000000" DD(x)=DSNNAME= specified
		.1.. ....		SCWA\$TDV	"B'01000000" DD(x)=VOLSER= specified
The following is used for \$T CKPTSPACE					
		.... ...1		SCWA\$RCN	"B'00000001" CDINUM= specified
		.... ..1.		SCWA\$RCD	"B'00000010" CDIRESET specified
		.... .1..		SCWA\$RGN	"B'00000100" RGDDNUM= specified
		.... 1...		SCWA\$RRG	"B'00001000" RGDRESET specified
217	(D9)	ADDRESS	1	SCWAWARN	\$SCAN WARNING MASK
218	(DA)	BITSTRING	1	SCWAFLG7	Flag byte 7
		1... ....		SCWA7BOU	"B'10000000" Sets to back out at this level of scan exist
		.1.. ....		SCWA7DNF	"B'01000000" A conflict exists between set and filter keywords
		..1. ....		SCWA7FLF	"B'00100000" Current keyword MUST be processed as a filter
		...1 ....		SCWA7DDN	"B'00010000" The maximum number of display messages has been exceeded
		.... 1...		SCWA7FXT	"B'00001000" Filter SCWA - additional processing required
		.... .1..		SCWA7DAL	"B'00000100" Display all was requested for this keyword
		.... ..1.		SCWA7DSP	"B'00000010" Something displayed at this level on this iteration
		.... ...1		SCWA7SDS	"B'00000001" Something done at subscript SCWA level (similar to SCWA4SDL but reset for new subscript SCWA)
219	(DB)	ADDRESS	1	SCWACALD	CALLER FOR DISPLAY ON \$SCAN CALLS THAT ARE SETDISP, SETCRDISP, ETC, DURING DISP = ORIG SET CALLER
220	(DC)	SIGNED	4	SCWASUBS	LOWER BOUNDARY AND/OR SBSCPT
224	(E0)	SIGNED	4	SCWASUBH	UPPER BOUNDARY OF SUBSCRIPT (MAY BE A LOWER VALUE THAN SSCR, IMPLYING A DECREMENTING LOOP)
228	(E4)	SIGNED	2	SCWASCRL	LENGTH OF SUBSCRIPT AREA
230	(E6)	SIGNED	2	SCWAVCNT	COUNT OF VECTOR ELMTS PROCESSED FOR ENTIRE VECTOR SUBSCAN
232	(E8)	SIGNED	2	SCWASTVC	COUNT OF VECTOR ELMTS PROCESSED WITHIN CURRENT SCANTAB ENTRY
234	(EA)	SIGNED	2	SCWASBL	FIELD LENGTH FOR \$SCANB
236	(EC)	BITSTRING	1	SCWAFLG9	Still more flags



Table 175. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1... ....		SCWA9NFT	"B'10000000'" SCWA for nested filter
		.1.. ....		SCWA9NEG	"B'01000000'" STCK SET negative delta
		..1. ....		SCWA9POS	"B'00100000'" STCK SET positive delta
		...1 ....		SCWA9EXK	"B'00010000'" explicit keyword (from command line)
237	(ED)	BITSTRING	1	SCWAEXF2	Flag byte for use by Pre- and Post-scan exits only (see also SCWAEXFL)
Definitions used by \$TJ command					
		1... ....		SCWA\$TJR	"B'10000000'" \$TJ RAISE_LIMITS specified
238	(EE)	BITSTRING	1	SCWAINDT	Indent length from DISPARSE
239	(EF)	BITSTRING	1	SCWAPRFX	Prefix len when indent is 0
240	(F0)	ADDRESS	4	SCWADADD	ADDR OF CURRENT TABLE ENTRY FOR A DISPLAY ALL ENTRIES REQUEST
244	(F4)	BITSTRING	1	SCWATYPE	\$SCAN CALL TYPE
		1... ....		SCWASET	"B'10000000'" \$SCAN SCAN=SET
		.1.. ....		SCWADISP	"B'01000000'" \$SCAN SCAN=DISPLAY
		..1. ....		SCWADSPA	"B'00100000'" FLAG FOR DISPLAY-AFTER
		.1.1 ....		SCWAMSG	"B'01010000'" \$SCAN SCAN=MSG
		.... 1...		SCWACR	"B'00001000'" \$SCAN SCAN=CR
		.... .1..		SCWADELE	"B'00000100'" \$SCAN SCAN=DELETE
244	(F4)	X'88'	0	SCWASETC	"SCWASET+SCWACR" \$SCAN SCAN=SETCR
244	(F4)	X'A0'	0	SCWASETD	"SCWASET+SCWADSPA" \$SCAN SCAN=SETDISP
244	(F4)	X'A8'	0	SCWASCD	"SCWASETC+SCWADSPA" \$SCAN SCAN=SETCRDISP
244	(F4)	X'28'	0	SCWACRDI	"SCWACR+SCWADSPA" \$SCAN SCAN=CRDISP
244	(F4)	X'44'	0	SCWADDEL	"SCWADISP+SCWADELE" \$SCAN SCAN=DISPDEL
244	(F4)	X'C4'	0	SCWACRRT	"SCWASET+SCWADISP+SCWADELE" Flags to indicate (all off) CR(new CB) required
245	(F5)	BITSTRING	1	SCWAFLG1	GENERAL FLAG BYTE
		1... ....		SCWAPAR	"B'10000000'" SCAN STARTED WITH A PARENTHESIS (MUST END WITH ONE)
		.1.. ....		SCWASING	"B'01000000'" SCAN RESTRICTED TO SINGLE KEYWORD (POSSIBLY NEEDING MULTI-SUBSCAN)
		..1. ....		SCWASSER	"B'00100000'" POSSIBLE SUBSCRIPT ERROR
		...1 ....		SCWAVECT	"B'00010000'" VECTOR SCAN BEING PROCESSED
		.... 1...		SCWAPSCN	"B'00001000'" PRESCAN EXIT DID SCANNING
		.... .1..		SCWARANG	"B'00000100'" POSSIBLE SUBSCRIPT RANGE FOUND
		.... ..1.		SCWASCAN	"B'00000010'" SUBSCAN IS REQUIRED
		.... ...1		SCWADCOM	"B'00000001'" COMMA REQUIRED WITHIN A DISPLAY
246	(F6)	BITSTRING	1	SCWAFLG2	GENERAL FLAG BYTE 2
		1... ....		SCWADALL	"B'10000000'" DISPLAY ALL SUBPARAMETERS



Table 175. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1.. ....		SCWAHASP	"B'01000000'" HAVE COMPLETED HASP TABLE
		..1. ....		SCWA2LNG	"B'00100000'" Do LONG display all
		...1 ....		SCWASPAN	"B'00010000'" TEXT SPANS AN SCWA
		.... 1..		SCWALOOP	"B'00001000'" DISPLAY LOOP AS GENERATED FROM A PRE OR POST-SCAN EXIT AND ONLY AVAILABLE FOR THEIR USE
		.... .1..		SCWA2QSS	"B'00000100'" Quotes around subscript
		.... ..1.		SCWAPAR2	"B'00000010'" Copy of SCWAPAR for loops
		.... ...1		SCWAPERD	"B'00000001'" INDICATE MULTI- SECTIONED KYWRD
247	(F7)	BITSTRING	1	SCWAFLG3	GENERAL FLAG BYTE 3
		1... ....		SCWAMLVL	"B'10000000'" DISPLAY MORE THAN ONE SUB-KEYWORD SECTION
		.1.. ....		SCWAPARN	"B'01000000'" SCWA CONTAINS PART(S) OF THE HIGHEST LEVEL KYWRD SPECIFIED
		..1. ....		SCWAERR	"B'00100000'" SCANDIAG BUILDING DIAGNSTC MSG
		...1 ....		SCWAGRPD	"B'00010000'" INDICATES SOMETHING DISPLAYED
		.... 1..		SCWAD1ST	"B'00001000'" FIRST CALL TO DISPRTN
		.... .1..		SCWADLST	"B'00000100'" LAST CALL TO DISPRTN
		.... ..1.		SCWA3TCB	"B'00000010'" SCWACBAD POINTS TO TEMP CB
		.... ...1		SCWA3DCT	"B'00000001'" SCWACBAD POINTS TO A DCT
248	(F8)	BITSTRING	1	SCWAFLG4	GENERAL FLAG BYTE 4
		1... ....		SCWA4SSG	"B'10000000'" GENERIC SYMBOLIC SUBSCRIPT
		.1.. ....		SCWA4PSS	"B'01000000'" PARENS AROUND SUBSCRIPT
		..1. ....		SCWA4ACT	"B'00100000'" ACTIVITY DETERMINED THIS LEVEL
		...1 ....		SCWA4SDL	"B'00010000'" SOMETHING DONE IN POSSIBLE LOOP, USED TO REPORT IF NO MATCHES
		.... 1..		SCWA4LFC	"B'00001000'" LKUPFLD HAS BEEN CHANGED BY SET, DISPLAY MUST USE NEW SUBSCRIP
		.... .1..		SCWA4FLM	"B'00000100'" Filter match found
		.... ..1.		SCWA4ETL	"B'00000010'" END OF SCAN FOR THIS LEVEL
		.... ...1		SCWA4RDE	"B'00000001'" ERROR FLAG FOR RESTDISP
249	(F9)	BITSTRING	1	SCWAFLG5	GENERAL FLAG BYTE 5
		1... ....		SCWA5FLT	"B'10000000'" FILTER REQUEST DETECTED
		.1.. ....		SCWA5FRJ	"B'01000000'" FILTER REQUEST REJECTED
		..1. ....		SCWA5DSP	"B'00100000'" Something done at this level other than filters
		...1 ....		SCWA5PS2	"B'00010000'" SECOND 'DISPLAY ALL' PASS IN PROGRESS FOR KEYWORD
		.... 1..		SCWA5FND	"B'00001000'" FILTER DETECTED WHICH ALSO REQUIRES A DISPLAY
		.... .1..		SCWA5XPR	"B'00000100'" DO NOT TAKE ANY MORE PRESCAN EXIT ROUTINES FOR THIS KEYWORD ITERATION



Table 175. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		SCWA5XPO	"B'00000010'" DO NOT TAKE ANY MORE POSTSCAN EXIT ROUTINES FOR THIS KEYWORD ITERATION
		.... ...1		SCWA5NSS	"B'00000001'" Input at this level contained a numeric subscript (if symbolic then SCWASSSL is set)
250	(FA)	SIGNED	2	SCWARPMM	MAXIMUM RPTR MOVED IN LOOP
252	(FC)	CHARACTER	1	SCWASEPR	SEPARATOR CHARACTER USED DURING DISPLAY CREATION
253	(FD)	BITSTRING	1	SCWADSPR	\$SCAN DISPLAYER ID
254	(FE)	ADDRESS	1	SCWAKWDL	LENGTH OF FIRST SECTION OF A MULTI-SECTIONED KEYWORD
255	(FF)	ADDRESS	1	SCWACALR	\$SCAN CALLER ID - HASP IDS ARE DEFINED IN \$HASPEQU, USERS SHOULD USE IDS FROM 255 DOWN (IF NEEDED)
256	(100)	BITSTRING	1	SCWABFLG	FLAG BYTE USED BY \$SCANB MACRO TO PASS TYPE TO \$SCANB ROUTINE - ALL BIT DEFINITIONS IN SCWABAFG
257	(101)	SIGNED	1	SCWASSSL	LENGTH OF INPUT SYMBOLIC SS
258	(102)	SIGNED	1	SCWASSL2	LENGTH of second symbolic in range
259	(103)	BITSTRING	1	SCWAFLG8	Even more flags
		1... ....		SCWA8LTC	"B'10000000'" Control line->WPLLTFA
		.1.. ....		SCWA8LTL	"B'01000000'" Label line--->WPLLTFB
		..1. ....		SCWA8LTD	"B'00100000'" Data line---->WPLLTFC
		...1 ....		SCWA8LTE	"B'00010000'" End line----->WPLLTFD
		.... 1...		SCWA8DOU	"B'00001000'" Display area obtained by \$SCAN
		.... .1..		SCWA8DCC	"B'00000100'" Display routine R11=HCCT
		.... ..1.		SCWA8DHC	"B'00000010'" Display routine R11=HCT
		.... ...1		SCWA8HIC	"B'00000001'" Hi delimiter flag
260	(104)	BITSTRING	2	SCWAFVCT	Counter for vector filters specifying NOVORDER
262	(106)	BITSTRING	2	SCWAMIDL	Message id length for current message
264	(108)	CHARACTER	4	SCWAMID	Message id for the current message
268	(10C)	ADDRESS	4	SCWASSIE	Indirection entry save area If SUBFLD or LKUPFLD, it is current index value If SUBSCRP (direct index) it is looping CBIND adr
272	(110)	CHARACTER	16	SCWASSS(0)	Symbolic subscript values in normal and subscript SCWAs
272	(110)	CHARACTER	8	SCWASSSC	SYMBOLIC SUBSCRIPT VALUE
280	(118)	CHARACTER	8	SCWASSSH	SYMBOLIC SUBSCRIPT VALUE (HIGH RANGE VALUE)
280	(118)	X'110'	0	SCWAFW16	"SCWASSS" 16-byte work area - only in filter SCWAs
280	(118)	X'110'	0	SCWAFW8	"SCWAFW16,8" 8-byte work area
280	(118)	X'118'	0	SCWAFW8A	"SCWAFW16+8,8" 8-byte work area
288	(120)	ADDRESS	8	SCWASSSP	Sym subscript CB save area
288	(120)	X'124'	0	SCWASSSS	"SCWASSSP+4,4,C'A'" (31 bit version of ptr)
296	(128)	ADDRESS	8	SCWASSDP	Highest level symbolic



Table 175. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
296	(128)	X'12C'	0	SCWASSDR	"SCWASSDP+4,4,C'A'" LKUPFLD addr (used for later display if SCWA4LFC is turned on)
304	(130)	SIGNED	4	SCWASSSA	SCWASSSP ALET
308	(134)	BITSTRING	1	SCWAPRRC	Highest RC encountered from prescan routine
309	(135)	BITSTRING	1	SCWAPCNT	Count of nested parens for CONV=CHAR
310	(136)	ADDRESS	1	SCWAMSDL	MAXIMUM SUBSCRIPT DISPLAY LENGTH
311	(137)	ADDRESS	1	SCWANBLN	ACTUAL SUBSCRIPT LENGTH
312	(138)	ADDRESS	4	SCWAVERB	Addr of verb (1 byte length followed by char verb)
316	(13C)	ADDRESS	4		Reserved for future use
320	(140)	ADDRESS	4	SCWASCND(0)	Start of list form
320	(140)	ADDRESS	8		Text address unknown
328	(148)	ADDRESS	4		ALET of field
332	(14C)	ADDRESS	2		Text length
334	(14E)	ADDRESS	1		Text width
335	(14F)	ADDRESS	1		Width flags
336	(150)	ADDRESS	1		
337	(151)	ADDRESS	1		Option flag 2
338	(152)	ADDRESS	1		Conversion flag 1
339	(153)	ADDRESS	1		Conversion flag 2
340	(154)	ADDRESS	1		Conversion flag 3
341	(155)	ADDRESS	1		Conversion flag 4
342	(156)	ADDRESS	4		Multiplier
Backup area for SCWA flags in case prescan routine replaces current SCANTAB					
348	(15C)	SIGNED	4	(0)	Alignment
348	(15C)	BITSTRING	1	SCWAFLB1	Saved value of SCWAFLG1
349	(15D)	BITSTRING	1	SCWAFLB2	Saved value of SCWAFLG2
350	(15E)	BITSTRING	1	SCWAFLB3	Saved value of SCWAFLG3
351	(15F)	BITSTRING	1	SCWAFLB4	Saved value of SCWAFLG4
352	(160)	BITSTRING	1	SCWAFLB5	Saved value of SCWAFLG5
353	(161)	BITSTRING	1	SCWAFLB6	Saved value of SCWAFLG6
354	(162)	BITSTRING	1	SCWAFLB7	Saved value of SCWAFLG7
355	(163)	BITSTRING	1	SCWAFLB8	Saved value of SCWAFLG8
356	(164)	BITSTRING	1	SCWAFLB9	Saved value of SCWAFLG9
357	(165)	BITSTRING	3		Reserved
Dual use work area for filtering. The following fields map the data areas in a normal SCWAs. They are used to remember display or backup areas that have to be backed out later due to a filter mismatch.					
360	(168)	ADDRESS	4	SCWAFLTA(0)	Start of remapped area
360	(168)	ADDRESS	4	SCWADCWA	Addr of display SCWA of prefix area for text to back out
364	(16C)	SIGNED	2	SCWADCOF	Offset within display SCWA of prefix area for keyword (SCWANXPT)



Table 175. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
366	(16E)	SIGNED	2	SCWADCLN	Remaining length in display SCWA after text is backed out (SCWADFAL)
368	(170)	ADDRESS	4	SCWADCTA	Addr of last prefix area (SCWALTA)
372	(174)	ADDRESS	4	SCWABCWA	Addr of backup SCWA of prefix area for sets to back out (SCWA address)
376	(178)	SIGNED	2	SCWABCOF	Offset within backup SCWA of prefix area for keyword (SCWABLUO)
378	(17A)	SIGNED	2	SCWABCLN	Remaining length in backup SCWA after sets are backed out (SCWABLA)
380	(17C)	SIGNED	2	SCWABCNA	Next remaining area (SCWABNO)
382	(17E)	SIGNED	2		Reserved for future use
Work area in Filter SCWAs The following fields map the data areas in a filter SCWA. These fields are used to store working fields and STAB addresses from earlier levels of \$SCAN.					
360	(168)	ADDRESS	4	SCWAFNST	Looping level \$SCANTAB for this filter SCWA
364	(16C)	SIGNED	4	SCWAFWA_START(0)	Begin filter WA (\$SCANTAB addrs in filter SCWAs)
384	(180)	SIGNED	4	SCWAFWA_END(0)	End filter WA
384	(180)	X'16C'	0	SCWAFWA	"SCWAFWA_START,SCWAFWA_END-SCWAFWA_START" Define work area
SET SCWA BACKUP AREA FIELDS MAPPED OVER COMMON SCWA					
92	(5C)	SIGNED	2	SCWABLA	LEN OF AVAILABLE BACKUP SPACE
94	(5E)	SIGNED	2	SCWABLT	LEN OF TOTAL BACKUP SPACE
96	(60)	SIGNED	2	SCWABLUO	OFFSET OF LAST USED BACKUP AREA
98	(62)	SIGNED	2	SCWABNO	OFFSET OF NEXT AVAILABLE BACKUP AREA
100	(64)	SIGNED	4	(0)	BACKUP AREA ELEMENTS
100	(64)	BITSTRING	20	SCWABELM	Ensure at least one fits
SET SCWA DISPLAY AREA FIELDS MAPPED OVER BACKUP FIELDS					
92	(5C)	ADDRESS	4	SCWAOLDP	ADDR OF OLDEST PARENT SCWA
96	(60)	SIGNED	2	SCWADFAL	LENGTH OF FREE AREA LEFT
98	(62)	SIGNED	2	SCWANXPT	OFFSET TO NXT POSSIBLE TXT AREA
100	(64)	SIGNED	4	SCWALTA	ADDRESS TO PREVIOUS TEXT AREA
104	(68)	SIGNED	4	(0)	Beginning of display elmts
104	(68)	BITSTRING	16	SCWADELM	Ensure at least one fits
384	(180)	DBL WORD	8	(0)	Align size of area
384	(180)	X'180'	0	SCWALEN	"*-SCWA" LEN OF GENERAL SCWA WORK AREA
384	(180)	X'1000'	0	SCWALEND	"4096" Len of DISPLAY SCWA

Table 176. Structure SCWADA

Offset Dec	Offset Hex	Type	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



Table 176. Structure SCWADA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
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
		1... ....		SCWADLTC	"B'10000000'" Control line
		.1.. ....		SCWADLTL	"B'01000000'" Label line
		..1. ....		SCWADLTD	"B'00100000'" Data line
		...1 ....		SCWADLTE	"B'00010000'" End line
		.... 1...		SCWADFCR	"B'00001000'" Place CRLF before text
		.... .1..		SCWADFCT	"B'00000100'" This SCWADA continued in next display SCWA
		.... ..1.		SCWANIND	"B'00000010'" Do not indent this output
13	(D)	BITSTRING	3		Reserved for future use
16	(10)	SIGNED	4	SCWADTXT(0)	START OF TEXT
16	(10)	X'10'	0	SCWADAL	"*-SCWADA"

Table 177. Structure SCWABA

Offset Dec	Offset Hex	Type	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
		1... ....		SCWABABA	"B'10000000'" BACKUP AREA CONTAINS BACKED UP STORAGE
		.1.. ....		SCWABADI	"B'01000000'" BACKUP AREA CONTAINS STABNAME TO DISPLAY (FOR SET-DISPLAY)
		..1. ....		SCWABAER	"B'00100000'" BACKUP AREA CONTAINS KEYWORD OR VALUE IN ERROR
		.... ..1.		SCWABASC	"B'00000010'" Secondary TYPE=ERROR entry
		.... ...1		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)	SIGNED	4	SCWABAAL	SCWABAPT storage ALET
8	(8)	ADDRESS	8	SCWABAPT	Addr of storage backed up
8	(8)	X'C'	0	SCWABAAD	"SCWABAPT+4,4,C'A'" and 32 bit version
16	(10)	SIGNED	2	SCWABALN	LENGTH OF STORAGE BACKED UP
18	(12)	SIGNED	2	SCWABAPO	OFFSET OF PREVIOUS BA IN SCWA OR 0
20	(14)	SIGNED	4	SCWABAF(0)	CONTENTS OF BACKED-UP FIELD
20	(14)	X'14'	0	SCWABAL	"*-SCWABA"

Table 178. Structure XWCWA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XWCWA	, ASAXWC work area
0	(0)	CHARACTER	4		Eyecatcher
4	(4)	CHARACTER	256	XWCDA	Data work area
260	(104)	SIGNED	4	XWCDA	Length of data



Table 178. Structure XWCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
264	(108)	CHARACTER	256	XWCSTR	Input string area
520	(208)	SIGNED	4	XWCSTRL	Length of input string MACDATE -12/21/18-<0>
0	(0)	X'20C'	0	M00M1532	"XWCLIST" ++ ASAXWC NAME
524	(20C)	SIGNED	4	XWCLIST(0)	++ ASAXWC PARM LIST
524	(20C)	CHARACTER	4	XWCLIST_XPARMAREA1	++ FIELD_LABEL
528	(210)	CHARACTER	24	XWCLIST_XPARMAREA2	++ FIELD_LABEL
528	(210)	X'228'	0	XWCLIST_PL_END	"*" ++ END OF BASE PLIST
524	(20C)	ADDRESS	4	XWCLIST_XPATTERNSTR_ADDR	++ ADDR
528	(210)	SIGNED	4	XWCLIST_XPATTERNSTRLEN	++
532	(214)	ADDRESS	4	XWCLIST_XSTRING_ADDR	++ ADDR
536	(218)	SIGNED	4	XWCLIST_XSTRINGLEN	++
540	(21C)	ADDRESS	4	XWCLIST_XZEROORMORE_ADDR	++ ADDR
544	(220)	ADDRESS	4	XWCLIST_XONECHAR_ADDR	++ ADDR
548	(224)	ADDRESS	4	XWCLIST_XDELIMITER_ADDR	++ ADDR
524	(20C)	ADDRESS	4	XWCLIST_XPPPATTERNINFO_ADDR	++ ADDR
528	(210)	ADDRESS	4	XWCLIST_XPPPATTERNSTR_ADDR	++ ADDR
532	(214)	SIGNED	4	XWCLIST_XPPPATTERNSTRLEN	++
536	(218)	ADDRESS	4	XWCLIST_XPPZEROORMORE_ADDR	++ ADDR
540	(21C)	ADDRESS	4	XWCLIST_XPPONECHAR_ADDR	++ ADDR
544	(220)	ADDRESS	4	XWCLIST_XPPDELIMITER_ADDR	++ ADDR
528	(210)	ADDRESS	4	XWCLIST_XPPSTRING_ADDR	++ ADDR
532	(214)	SIGNED	4	XWCLIST_XPPSTRINGLEN	++
552	(228)	X'1C'	0	XWCLISTL	"*-XWCLIST" ++ LENGTH OF PLIST
ASAXWC-0					
552	(228)	BITSTRING	256	XWCAREA	Work area passed to ASAXWC
808	(328)	BITSTRING	40	XWCGENWA	List of diagnostic levels
848	(350)	CHARACTER	100	XWCGENWB	Message work area
952	(3B8)	DBL WORD	8	(0)	
952	(3B8)	X'3B8'	0	XWCLEN	"*-XWCWA" Length of work area
952	(3B8)	X'EE'	0	XWCWORDS	"XWCLEN/4" Length in words

Table 179. Structure SCWA

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

Table 180. Cross Reference for \$SCANWA

Name	Offset	Hex	Tag
M00M1532	0	20C	
SCWA	0		
SCWA	0		
SCWA\$ARM	D8		4



Table 180. Cross Reference for \$SCANWA (continued)

Name	Offset	Hex Tag
SCWA\$CDU	D8	40
SCWA\$COR	D8	80
SCWA\$CPU	D8	1
SCWA\$DMN	D8	8
SCWA\$DMY	D8	10
SCWA\$ECA	D8	1
SCWA\$ESH	D8	2
SCWA\$EST	D8	4
SCWA\$FRC	D8	8
SCWA\$IND	D8	80
SCWA\$JPR	D8	10
SCWA\$NNM	D8	80
SCWA\$NTC	D8	80
SCWA\$POE	D8	2
SCWA\$RCD	D8	2
SCWA\$RCN	D8	1
SCWA\$RGN	D8	4
SCWA\$RRG	D8	8
SCWA\$RSV	D8	80
SCWA\$TDS	D8	80
SCWA\$TDV	D8	40
SCWA\$TJC	D8	40
SCWA\$TJD	D8	2
SCWA\$TJE	D8	8
SCWA\$TJI	D8	4
SCWA\$TJP	D8	80
SCWA\$TJR	ED	80
SCWA\$TJS	D8	10
SCWA\$TJU	D8	1
SCWA\$TJX	D8	20
SCWA\$TLN	D8	40
SCWA\$TLS	D8	20
SCWA\$TLY	D8	80
SCWA\$TOG	D8	8
SCWA\$TOO	D8	40
SCWA\$TOX	D8	80
SCWABA	0	
SCWABAAD	8	C
SCWABAAL	4	



Table 180. Cross Reference for \$SCANWA (continued)

Name	Offset	Hex Tag
SCWABABA	0	80
SCWABADI	0	40
SCWABAER	0	20
SCWABAFB	14	
SCWABAFG	0	
SCWABAIN	0	1
SCWABAL	14	14
SCWABALN	10	
SCWABALV	1	
SCWABAPO	12	
SCWABAPT	8	
SCWABASC	0	2
SCWABCLN	17A	
SCWABCNA	17C	
SCWABCOF	178	
SCWABCWA	174	
SCWABELM	64	
SCWABFLG	100	
SCWABLA	5C	
SCWABLT	5E	
SCWABLUO	60	
SCWABNO	62	
SCWABNWA	10	
SCWABPWA	8	
SCWACALD	DB	
SCWACALR	FF	
SCWACATL	D8	40
SCWACBAD	98	9C
SCWACBAL	A8	
SCWACBCL	90	94
SCWACBPC	90	
SCWACBPT	98	
SCWACMPR	D8	2
SCWACNTR	D4	
SCWACPCT	D8	4
SCWACR	F4	8
SCWACRDI	F4	28
SCWACRRT	F4	C4
SCWACR11	5C	



Table 180. Cross Reference for \$SCANWA (continued)

Name	Offset	Hex Tag
SCWADA	0	
SCWADADD	F0	
SCWADAD2	B4	
SCWADAL	10	10
SCWADALL	F6	80
SCWADCLN	16E	
SCWADCOF	16C	
SCWADCOM	F5	1
SCWADCTA	170	
SCWADCWA	168	
SCWADDEL	F4	44
SCWADELE	F4	4
SCWADELM	68	
SCWADFAL	60	
SCWADFCR	C	8
SCWADFCT	C	4
SCWADFLG	C	
SCWADISP	F4	40
SCWADJBL	D8	40
SCWADLEN	72	
SCWADLST	F7	4
SCWADLTC	C	80
SCWADLTD	C	20
SCWADLTE	C	10
SCWADLTL	C	40
SCWADNWA	C	
SCWADOUT	74	
SCWADPWA	4	
SCWADRTN	78	
SCWADSPA	F4	20
SCWADSPR	FD	
SCWADSTB	8	
SCWADTLS	2	
SCWADTXL	0	
SCWADTXT	10	
SCWADWK1	30	
SCWADWK2	38	
SCWADWK3	40	
SCWADWRK	28	



Table 180. Cross Reference for \$SCANWA (continued)

Name	Offset	Hex Tag
SCWAD1ST	F7	8
SCWAELVL	23	
SCWAENWA	1C	
SCWAERR	F7	20
SCWAEXFL	D8	
SCWAEXF2	ED	
SCWAFAD	A0	A4
SCWAFAL	AC	
SCWAFLB1	15C	
SCWAFLB2	15D	
SCWAFLB3	15E	
SCWAFLB4	15F	
SCWAFLB5	160	
SCWAFLB6	161	
SCWAFLB7	162	
SCWAFLB8	163	
SCWAFLB9	164	
SCWAFLG1	F5	
SCWAFLG2	F6	
SCWAFLG3	F7	
SCWAFLG4	F8	
SCWAFLG5	F9	
SCWAFLG6	21	
SCWAFLG7	DA	
SCWAFLG8	103	
SCWAFLG9	EC	
SCWAFNST	168	
SCWAFNSTA	168	
SCWAFNWA	14	
SCWAFPTR	A0	
SCWAFVCT	104	
SCWAFWA	180	16C
SCWAFWA_END	180	
SCWAFWA_START	16C	
SCWAFW16	118	110
SCWAFW8	118	110
SCWAFW8A	118	118
SCWAGRPD	F7	10
SCWAHASP	F6	40



Table 180. Cross Reference for \$SCANWA (continued)

Name	Offset	Hex Tag
SCWAID	0	
SCWAILEN	CE	
SCWAINDT	EE	
SCWAIPTR	D0	
SCWAJNET	D8	80
SCWAKBAK	20	20
SCWAKDSP	20	40
SCWAKFLT	20	10
SCWAKIND	20	
SCWAKNOR	20	80
SCWAKPTR	C4	
SCWAKSUB	20	8
SCWAKWDL	FE	
SCWALEN	180	180
SCWALEND	180	1000
SCWALOOP	F6	8
SCWALTA	64	
SCWAMID	108	
SCWAMIDL	106	
SCWAMLVL	F7	80
SCWAMSDL	136	
SCWAMSG	F4	50
SCWANBLN	137	
SCWANDTA	4	
SCWANIND	C	2
SCWANWA	80	
SCWANXPT	62	
SCWAOLDP	5C	
SCWAORG1	5C	
SCWAOTAB	88	
SCWAPAR	F5	80
SCWAPARN	F7	40
SCWAPAR2	F6	2
SCWAPCNT	135	
SCWAPERD	F6	1
SCWAPRFX	EF	
SCWAPRRC	134	
SCWAPSCN	F5	8
SCWAPWA	7C	



Table 180. Cross Reference for \$SCANWA (continued)

Name	Offset	Hex Tag
SCWARANG	F5	4
SCWARLEN	CC	
SCWARLWA	24	
SCWARMSH	D8	8
SCWARMTA	D8	40
SCWARMTL	D8	10
SCWARPMM	FA	
SCWARPTR	C8	
SCWARTCD	C2	
SCWARTRY	D8	20
SCWASBL	EA	
SCWASCAN	F5	2
SCWASCD	F4	A8
SCWASCND	140	
SCWASCRL	E4	
SCWASEPR	FC	
SCWASET	F4	80
SCWASETC	F4	88
SCWASETD	F4	A0
SCWASING	F5	40
SCWASLEN	70	
SCWASLVL	22	
SCWASNWA	18	
SCWASPAN	F6	10
SCWASSDP	128	
SCWASSDR	128	12C
SCWASSER	F5	20
SCWASSIE	10C	
SCWASSL2	102	
SCWASSS	110	
SCWASSSA	130	
SCWASSSC	110	
SCWASSSH	118	
SCWASSSL	101	
SCWASSSP	120	
SCWASSSS	120	124
SCWASTAB	84	
SCWASTBS	68	
SCWASTMD	D8	80



Table 180. Cross Reference for \$SCANWA (continued)

Name	Offset	Hex Tag
SCWASTMT	6C	
SCWASTVC	E8	
SCWASUBH	E0	
SCWASUBS	DC	
SCWATEMP	B0	
SCWATOKN	60	64
SCWATOKP	60	
SCWATYPE	F4	
SCWAVCNT	E6	
SCWAVECT	F5	10
SCWAVERB	138	
SCWAWARN	D9	
SCWAWCWA	58	
SCWAWK16	40	28
SCWAWK20	40	28
SCWAWK24	40	28
SCWAWK32	40	28
SCWAWORK	B8	
SCWAW16B	40	38
SCWAXWA	48	40404040
SCWA2LNG	F6	20
SCWA2QSS	F6	4
SCWA3DCT	F7	1
SCWA3TCB	F7	2
SCWA4ACT	F8	20
SCWA4ETL	F8	2
SCWA4FLM	F8	4
SCWA4LFC	F8	8
SCWA4PSS	F8	40
SCWA4RDE	F8	1
SCWA4SDL	F8	10
SCWA4SSG	F8	80
SCWA5DSP	F9	20
SCWA5FLT	F9	80
SCWA5FND	F9	8
SCWA5FRJ	F9	40
SCWA5NSS	F9	1
SCWA5PS2	F9	10
SCWA5XP0	F9	2



Table 180. Cross Reference for \$SCANWA (continued)

Name	Offset	Hex Tag
SCWA5XPR	F9	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
SCWA6OSS	21	8
SCWA7BOU	DA	80
SCWA7DAL	DA	4
SCWA7DDN	DA	10
SCWA7DNF	DA	40
SCWA7DSP	DA	2
SCWA7FLF	DA	20
SCWA7FXT	DA	8
SCWA7SDS	DA	1
SCWA8DCC	103	4
SCWA8DHC	103	2
SCWA8DOU	103	8
SCWA8HIC	103	1
SCWA8LTC	103	80
SCWA8LTD	103	20
SCWA8LTE	103	10
SCWA8LTL	103	40
SCWA9EXK	EC	10
SCWA9NEG	EC	40
SCWA9NFT	EC	80
SCWA9POS	EC	20
XWCAREA	228	
XWCDATA	4	
XWCATAL	104	
XWCGENWA	328	
XWCGENWB	350	
XWCLEN	3B8	3B8
XWCLIST	20C	
XWCLIST_PL_END	210	228
XWCLIST_XDELIMITER_ADDR	224	



Table 180. Cross Reference for \$SCANWA (continued)

Name	Offset	Hex Tag
XWCLIST_XONECHAR_ADDR	220	
XWCLIST_XPARMAREA1	20C	
XWCLIST_XPARMAREA2	210	
XWCLIST_XPATTERNSTR_ADDR	20C	
XWCLIST_XPATTERNSTRLEN	210	
XWCLIST_XPPDELIMITER_ADDR	220	
XWCLIST_XPPONECHAR_ADDR	21C	
XWCLIST_XPPPATTERNINFO_ADDR	20C	
XWCLIST_XPPPATTERNSTR_ADDR	210	
XWCLIST_XPPPATTERNSTRLEN	214	
XWCLIST_XPPSTRING_ADDR	210	
XWCLIST_XPPSTRINGLEN	214	
XWCLIST_XPPZEROORMORE_ADDR	218	
XWCLIST_XSTRING_ADDR	214	
XWCLIST_XSTRINGLEN	218	
XWCLIST_XZEROORMORE_ADDR	21C	
XWCLISTL	228	1C
XWCSTR	108	
XWCSTRL	208	
XWCWA	0	
XWCWORDS	3B8	EE

## \$SCAT information

### \$SCAT programming interface information

\$SCAT is a programming interface.

### \$SCAT heading information

<b>Common name:</b>	SYSOUT Class Attribute Table DSECT
<b>Macro ID:</b>	\$SCAT
<b>DSECT name:</b>	SCAT
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	None
<b>Storage attributes:</b>	Subpool: 241 Key: 1 Residency: The SCAT is in 24 bit virtual storage and 64 bit real storage.
<b>Size:</b>	See SCATLEN
<b>Created by:</b>	HASPIRSI during JES2 initialization



**Pointed to by:** CCTSCATP field of the \$HCCT data area  
CCTSCAT FIELD of the \$HCCT data area  
(CCTSCAT is the actual address of the SCAT which resides in the \$HCCT.  
It is NOT a pointer and should not be used to address the SCAT.)

**Serialization:** None required

**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 the class (e.g. class A = X'C1'), turning off the high order two bits (e.g. class A =X'01'), multiplying by the SCATLEN equate, and adding to the address pointed to by CCTSCATP.

## \$SCAT mapping

Table 181. Structure SCAT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SCAT	SYSOUT CLASS ATTRIBUTE TABLE ELEMENT
0	(0)	SIGNED	4	SCATFLGS(0)	Flags (updated together)
0	(0)	BITSTRING	1	SCATFLG1	SYSOUT CLASS FLAG BYTE 1
		111. ....		SCATYPES	"B'11100000'" SCAT ELEMENT TYPES
		1... ....		SCAT1PRT	"B'10000000'" SYSOUT CLASS NORMALLY PRINTED
		.1.. ....		SCAT1PCH	"B'01000000'" SYSOUT CLASS NORMALLY PUNCHED
		..1. ....		SCAT1DUM	"B'00100000'" TREAT SYSOUT CLASS AS DUMMY
		...1 ....		SCAT1BLK	"B'00010000'" TRUNCATE THIS SYSOUT CLASS
		.... 1...		SCAT1TCL	"B'00001000'" TRAKCELL THIS SYSOUT CLASS
		.... .1..		SCAT1CMP	"B'00000100'" Compress this SYSOUT class
		.... ...1		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
3	(3)	BITSTRING	1		Reserved



Table 181. Structure SCAT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
3	(3)	X'4'	0	SCATLEN	"*-SCAT" LENGTH OF A SCAT ENTRY

Table 182. Cross Reference for \$SCAT

Name	Offset	Hex	Tag
SCAT	0		
SCATFLGS	0		
SCATFLG1	0		
SCATFLG2	1		
SCATFLG3	2		
SCATLEN	3		4
SCATYPES	0		E0
SCAT1BLK	0		10
SCAT1CMP	0		4
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 information

### \$SCID programming interface information

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

- SCID\_ACT
- SCID\_ALT\_CVCB
- SCID\_ENQ\_CT
- SCID\_FREE\_CVCB



- SCID\_HOLD\_CVCB
- SCID\_LATEST\_CVCB
- SCID\_LIVE\_CVCB
- SCIDDSB

## \$SCID heading information

<b>Common name:</b>	Summary of Checkpoint Information
<b>Macro ID:</b>	\$SCID
<b>DSECT name:</b>	SCID
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	SCID Offset: SCIDID-SCID Length: L'SCIDID
<b>Storage attributes:</b>	Subpool: 231 Key: 1 Residency: Virtual and real storage are anywhere, above or below 16M, in common storage.
<b>Size:</b>	See SCIDSIZE
<b>Created by:</b>	HASPCVKR during initialization processing
<b>Pointed to by:</b>	CCTSCIDS field of the \$HCCT data area
<b>Serialization:</b>	All applicable techniques
<b>Function:</b>	This control block contains the necessary information needed by the Checkpoint Versions Subtask. It provides the means by which authorized programs access the checkpoint versions contained within the checkpoint data spaces.

## \$SCID mapping

Table 183. Structure SCID

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SCID	
0	(0)		1	(0)	Quad word align
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
		1... ....		SCIDVSE	"B'10000000'" Versions exist
		.1.. ....		SCIDDISA	"B'01000000'" Subtask disabled
		..1. ....		SCIDDISB	"B'00100000'" Error detected in CKVR
		...1 ....		SCIDPJ2	"B'00010000'" Subtask in PJES2
		.... 1...		SCIDSINA	"B'00001000'" Subtask inactive
		.... .1..		SCIDSREC	"B'00000100'" Subtask in recovery
		.... ..1.		SCIDAX64	"B'00000010'" Acquired 64-bit storage in JES2AUX for 64-bit CTENTS



Table 183. Structure SCID (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
10	(A)	BITSTRING	1	SCIDFLG2	Flag Byte-Versning stat
		.1.. ....		SCIDVACT	"B'01000000" Versioning active
11	(B)	BITSTRING	1		
12	(C)	CHARACTER	4	SCIDSTNM	Subtask name 'CKVR'
16	(10)	CHARACTER	4	SCIDSSNM	Subsystem name 'JESX'
20	(14)	BITSTRING	4		Reserved
24	(18)	CHARACTER	8	SCIDDSPN	Official name of d.s.
32	(20)	SIGNED	4	SCIDDSIZ	Size of data space
36	(24)	ADDRESS	4	SCIDSORG	Origin of data space
40	(28)	SIGNED	4	SCIDVRNO	Running version number
44	(2C)	ADDRESS	4	SCIDDSB	Addr of data space DSB
48	(30)	CHARACTER	8	SCIDSTCK(0)	Time of last request
48	(30)	SIGNED	4	SCIDREQT	Primary part -time
52	(34)	SIGNED	4		Last part of time
56	(38)	SIGNED	4	SCIDALET	JESxCKVR data space ALET
60	(3C)	BITSTRING	8	SCIDSTKN	and STOKEN
68	(44)	SIGNED	4	SCIDXALE	JESxAUX addr space ALET
72	(48)	BITSTRING	8	SCIDXSTK	and STOKEN
80	(50)	SIGNED	8	SCIDX64L	Number of 1M segs and
88	(58)	ADDRESS	8	SCIDX64	origin of 64-bit area in JES2AUX AS
96	(60)	CHARACTER	16	SCIDCVMN	Cur version ENQ minor name
112	(70)	CHARACTER	16	SCIDNVMN	Next version ENQ minor name
128	(80)	ADDRESS	8	SCIDCVCB	First CVCB address
136	(88)	ADDRESS	8	SCIDIOPT	I/O area address in JES2AUX
144	(90)	SIGNED	4	SCIDVRDA	Size (bytes) of CKPT data in a normal version (4K pages + MR)
148	(94)	SIGNED	4	SCIDVRSZ	Size (bytes) of a normal version (4K pages + MR + WLM QPosition vector)
152	(98)	SIGNED	4	SCIDL31	Size (bytes) of 31 bit area for live version (4K pages + MR + live HCT)
156	(9C)	SIGNED	4	SCIDL64	Size (bytes) of 64 bit area for live version (4K pages)
160	(A0)	SIGNED	4	SCID_ENQ_CT	Number of CVCBs w/ enqueues
164	(A4)	SIGNED	4	SCID_ACT	Number of CVCBs in active q
168	(A8)	ADDRESS	8	SCID_LIVE_CVCB	Ptr to live version CVCB
176	(B0)	ADDRESS	8	SCID_ALT_CVCB	Alt live version CVCB ptr
184	(B8)	ADDRESS	8	SCID_LATEST_CVCB	Active Q head CVCB
192	(C0)	ADDRESS	8	SCID_FREE_CVCB	Free Q head addr
200	(C8)	ADDRESS	8	SCID_HOLD_CVCB	Hold area Address
208	(D0)	ADDRESS	8	SCIDIO6L	I/O area length in JES2AUX
216	(D8)	SIGNED	4	(6)	Reserved
240	(F0)		1	(0)	Alignment
240	(F0)	X'F0'	0	SCIDSIZE	"*-SCID"
		.... ..11		SCIDCVNO	"X'03'"
240	(F0)	X'C3C9C4'	0	SCIDEYEC	"C'SCID'"



Table 184. Cross Reference for \$SCID

Name	Offset	Hex Tag
SCID	0	
SCID_ACT	A4	
SCID_ALT_CVCB	B0	
SCID_ENQ_CT	A0	
SCID_FREE_CVCB	C0	
SCID_HOLD_CVCB	C8	
SCID_LATEST_CVCB	B8	
SCID_LIVE_CVCB	A8	
SCIDALET	38	
SCIDAX64	9	2
SCIDCBVN	8	
SCIDCVCB	80	
SCIDCVMN	60	
SCIDCVNO	F0	3
SCIDDISA	9	40
SCIDDISB	9	20
SCIDDSB	2C	
SCIDDSIZ	20	
SCIDDSPN	18	
SCIDEYEC	F0	C3C9C4
SCIDFLG	9	
SCIDFLG2	A	
SCIDID	0	
SCIDIOPT	88	
SCIDIO6L	D0	
SCIDLEN	5	
SCIDLV31	98	
SCIDLV64	9C	
SCIDNVMN	70	
SCIDPJ2	9	10
SCIDREQT	30	
SCIDSINA	9	8
SCIDSIZE	F0	F0
SCIDSORG	24	
SCIDSREC	9	4
SCIDSSNM	10	
SCIDSTCK	30	
SCIDSTKN	3C	
SCIDSTNM	C	



Table 184. Cross Reference for \$SCID (continued)

Name	Offset	Hex Tag
SCIDSUBP	4	
SCIDVACT	A	40
SCIDVRDA	90	
SCIDVRNO	28	
SCIDVRSZ	94	
SCIDVSE	9	80
SCIDXALE	44	
SCIDXSTK	48	
SCIDX64	58	
SCIDX64L	50	

## \$SCK information

### \$SCK programming interface information

\$SCK is a programming interface.

### \$SCK heading information

**Common name:** NJE/TCP Socket

**Macro ID:** \$SCK

**DSECT name:** SCK

**Owning component:** JES2 (SC1BH)

**Eye-catcher ID:** SCK  
Offset: SCKID  
Length: 4

**Storage attributes:** Subpool: 0  
Key: 1  
Residency: VIRTUAL - anywhere  
REAL - anywhere

**Size:** See SCKLEN

**Created by:** SOCKDYN service in HASPTCP

**Pointed to by:** MDCTSCK field of the \$DCT data area  
\$SOCKETBL field of the \$HCT data area  
SCKNEXT field of the \$SCK data area

**Serialization:** JES2 main task

**Function:** An SCK describes a TCP/IP socket.



## \$SCK mapping

Table 185. Structure SCK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCK	TCP/IP socket DSECT
0	(0)	CHARACTER	4	SCKID	Control block identifier
0	(0)	X'1'	0	SCKVRNUM	"1" Control block version equate
4	(4)	ADDRESS	1	SCKVRSN	Control block version
5	(5)	ADDRESS	3		Reserved for future use
8	(8)	CHARACTER	8	SCKNAME	SCK symbolic name
16	(10)	ADDRESS	4	SCKNEXT	Addr of next SCK
20	(14)	CHARACTER	255	SCKHNAME	IP host name for this socket
275	(113)	CHARACTER	1		
276	(114)	BITSTRING	16	SCKIPAD	IP address (binary)
292	(124)	CHARACTER	16	SCKPORTN	Associated Port Name
308	(134)	SIGNED	2	SCKPORT	Associated Port Number
310	(136)	SIGNED	2	SCKNODE	Node number where socket exists
312	(138)	SIGNED	2	SCKLINE	Dedicated line number
314	(13A)	SIGNED	2	SCKREST	Resistance
316	(13C)	SIGNED	2	SCKSERV	Server DCT number
318	(13E)	BITSTRING	1	SCKFLAG1	Flags
	1... ..			SCK1SECU	"B'10000000'" Secure socket
	.1.. ..			SCK1DPRT	"B'01000000'" Default port number used
	..1. ....			SCK1DIP	"B'00100000'" Default IP address used
	...1 ....			SCK1ACT	"B'00010000'" Socket active
	.... 1...			SCK1ANCY	"B'00001000'" Automatically start NJE to this socket
	.... .1..			SCK1ANCN	"B'00000100'" Never automatically start NJE to this socket
	.... ..1.			SCK1NTSV	"B'00000010'" Active with a SERVER
319	(13F)	BITSTRING	1		Reserved
320	(140)	ADDRESS	4	SCKSDCT	Address of NETSRV DCT
324	(144)	ADDRESS	4	SCKLDCT	Address of LINE DCT
328	(148)	SIGNED	4	SCKSKID	Socket id (assigned by IAZNJSTK)
332	(14C)	SIGNED	2	SCKANINT	Restart interval (minutes)
334	(14E)	BITSTRING	2		Reserved
336	(150)	SIGNED	4	SCKANTIM	Disconnect time (STCK)
340	(154)	SIGNED	4		Reserved
344	(158)	ADDRESS	8	SCKCDCT	CDCT address
352	(160)	ADDRESS	4	SCKPCLA	Associated PCL address
356	(164)	SIGNED	4		Reserved
360	(168)	DBL WORD	8	(0)	
360	(168)	X'168'	0	SCKLEN	"*-SCK" LENGTH OF SCK

Table 186. Cross Reference for \$SCK

Name	Offset	Hex Tag
SCK	0	
SCKANINT	14C	



Table 186. Cross Reference for \$SCK (continued)

Name	Offset	Hex Tag
SCKANTIM	150	
SCKCDCT	158	
SCKFLAG1	13E	
SCKHNAME	14	
SCKID	0	
SCKIPAD	114	
SCKLDCT	144	
SCKLEN	168	168
SCKLINE	138	
SCKNAME	8	40404040
SCKNEXT	10	
SCKNODE	136	0
SCKPCLA	160	
SCKPORT	134	
SCKPORTN	124	
SCKREST	13A	
SCKSDCT	140	
SCKSERV	13C	
SCKSKID	148	
SCKVRNUM	0	1
SCKVRSN	4	
SCK1ACT	13E	10
SCK1ANCN	13E	4
SCK1ANCY	13E	8
SCK1DIP	13E	20
SCK1DPRT	13E	40
SCK1INTSV	13E	2
SCK1SECU	13E	80

## \$SCT information

### \$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 mapping

Table 187. Structure SCT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SCT	
0	(0)	X'1000'	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
		1... ....		SCT1TDIS	"B'10000000'" Spin PCE trace disabled
		.1.. ....		SCT1TRCI	"B'01000000'" Trace table initialized
6	(6)	SIGNED	2		Reserved for future use
<p>Spin processing count fields. The following counts are maintained:</p> <p>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.</p> <p>SCTSPUN: Count of all spin IOTs which have been unspun.</p> <p>SCTUNPR: Count of all unspun IOTs which have been successfully processed for output.</p> <p>In general: &gt; SCTSPUN = SCTUNPR when no unspun IOTs exist.  &gt; CCTSPINC = SCTSPPR when no spin IOTs exist in the HCCT (CCTSPIOT=CCTFIFOQ=0).</p> <p>Errors (as reported by \$DISTERR) will affect the consistency of these counts.</p>					
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
20	(14)	SIGNED	4		Reserved
<p>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 determiningabend intervals this is considered a close enough approximation of one second.</p>					



Table 187. Structure SCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	SIGNED	4	SCTABDT	Count of abends - total
32	(20)	DBL WORD	8	SCTABTIM	HASPSPIN abend time marker
32	(20)	X'258'	0	SCT10MIN	"10*60" 10 minutes (in seconds)
32	(20)	X'4B0'	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

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 SCTLEN.

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 **

Table 188. Structure SCTTRENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCTTRENT	
0	(0)	SIGNED	4	SCTTWD0	Spin PCE trace entry word 0
0	(0)	X'0'	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



Table 189. Cross Reference for \$SCT

Name	Offset	Hex Tag
SCT	0	
SCTABDT	18	
SCTABD20	28	
SCTABTIM	20	
SCTFLAG1	5	
SCTLEN	0	1000
SCTSCTID	0	E2C3E340
SCTSPPR	8	0
SCTSPUN	C	0
SCTTCUR	48	
SCTTESIZ	1C	20
SCTTLAST	4C	
SCTTRENT	0	
SCTTTAB	50	
SCTTTYP0	0	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	258
SCT20MIN	20	4B0



## \$SDB information

---

### \$SDB programming interface information

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

- SDBAPBL
- SDBDEB
- SDBJFCB
- SDBJFCBE
- SDBPBLAC
- SDBPBLFL
- SDBPBLIN
- SDBRPL
- SDBTCBM
- SDBTCBO
- SDBTRK
- SDBTRKC
- SDBTRKF
- SDBUPRBA

### \$SDB heading information

<b>Common name:</b>	SDB - JES2 Subsystem Dataset Block
<b>Macro ID:</b>	\$SDB
<b>DSECT name:</b>	SDB
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'SDB ' Offset: SDBID-SDB Length: 4
<b>Storage attributes:</b>	Subpool: 249 Key: 1 Residency: Virtual storage is in 31 bit storage, real can be in 64 bit storage, in the address space of the application that is reading or writing the subsystem dataset represented by this SDB.
<b>Size:</b>	See SDBLNG. The actual length will be stored in SDBLENG when the \$SDB is created.
<b>Created by:</b>	The \$SDBINIT service routine and the FGDSALOC routine.
<b>Pointed to by:</b>	GCBSDB field of the \$GDB data area SJBSDB field of the \$SJB data area SJXWTCHN field of the \$SJXB data area SDBSDB field of the \$SDB data area SDBWTCHN field of the \$SDB data area DEBIRBB field of the DEB data area (after OPEN) contains bits 1-24 of the address



**Serialization:** HAM uses an SDB lock (with an ENQ) to serialize all puts to the SDB and any authorized functions.

**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.

## \$SDB mapping

Table 190. Structure SDB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SDB	
0	(0)	BITSTRING	176	SDBSAVE	Save area
176	(B0)	CHARACTER	4	SDBID	SDB IDENTIFIER
180	(B4)	SIGNED	2	SDBLENG	SDB LENGTH
182	(B6)	SIGNED	2	SDBSTMT#	Next STMT number for JESJCL put at conversion time
184	(B8)	SIGNED	4	SDBR14SV	HPMOVE/HPMUPD/HSETBUFR/ HCHKSPAN R14 save area
188	(BC)	BITSTRING	1	SDBFLG1	FLAG BYTE 1
		1... ....		SDB1GET	"B'10000000'" GET ALLOWED
		.1.. ....		SDB1ENQ	"B'01000000'" Exit 9 ENQ obtained
		..1. ....		SDB1PUT	"B'00100000'" PUT ALLOWED
		...1 ....		SDB1HPUT	"B'00010000'" At least one put done (data set is not null)
		.... 1...		SDB1OUT	"B'00001000'" CARRIAGE CONTROL ALLOWED
		.... .1..		SDB1CLOS	"B'00000100'" Do not get chaining track, data set is closing
		.... ..1.		SDB1ENDR	"B'00000010'" Do not get chaining track, ENDREQ request
		.... ...1		SDB1FOPN	"B'00000001'" INIT DATA SET - FAKE-OPENED
189	(BD)	BITSTRING	1	SDBFLG2	FLAG BYTE 2
		1... ....		SDB2IOE	"B'10000000'" Permanent I/O error
		.1.. ....		SDB2VAL	"B'01000000'" Validation error
		..1. ....		SDB2VDK	"B'00100000'" Data set key mismatch
		...1 ....		SDB2EOD	"B'00010000'" End of data set
		.... 1...		SDB2SRB0	"B'00001000'" Do not position to buffer start, was SRB obtained
		.... .1..		SDB2DSRS	"B'00000100'" Data set restart- EOD or IOE
		.... ..1.		SDB2CMPF	"B'00000010'" PROTSRB Compare failed
		.... ...1		SDB2INDX	"B'00000001'" Data set to be/is indexed
190	(BE)	BITSTRING	1	SDBFLGM	Miscellaneous flag byte
		1... ....		SDBMJML	"B'10000000'" JESMSGGLG dataset
		.1.. ....		SDBMJSM	"B'01000000'" JESYSMSG dataset
190	(BE)	X'CO'	0	SDBMSJDS	"SDBMJML+SDBMJSM" Special JES2 data sets



Table 190. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		..1. ....		SDBMRSKP	"B'00100000'" Records skipped due to I/O error on GET
		...1 ....		SDBEVSKP	"B'00010000'" EVENTLOG records being skipped during GET due to view filtering
		.... 1...		SDBMSPEC	"B'00001000'" Data set requires special processing at conversion I/O time
		.... .1..		SDBOUTPU	"B'00000100'" Last statement processed was OUTPUT
		.... ..1.		SDBNOTIF	"B'00000010'" Last statement processed was NOTFIY
		.... ...1		SDBMCNCT	"B'00000001'" Dataset in concatenation
SDBFLAGY flag byte is used to control instream symbol substitution. See PDBFLAGY for description.					
191	(BF)	BITSTRING	1	SDBFLAGY	Symbol substitution flags for DD * and DD DATA:
192	(C0)	CHARACTER	8	SDBDDNM	DDNAME OF DATA SET
200	(C8)	SIGNED	4	SDBOPNCT	DATA SET OPEN COUNT
SDBTCBM is always job step TCB. When the job step TCB ends, the SDB is removed. SDBTCB0 is the TCB that owns the memory for the SDB. That is normally the Region Control task.					
204	(CC)	ADDRESS	4	SDBTCBM	TCB managing SDB memory
208	(D0)	ADDRESS	4	SDBTCB0	TCB owning the SDB memory
212	(D4)	ADDRESS	4	SDBHCCT	POINTER TO HASP HCCT
216	(D8)	ADDRESS	4	SDBSJB	POINTER TO SJB
220	(DC)	ADDRESS	4	SDBSDB	POINTER TO NEXT SDB OFF SJB
224	(E0)	ADDRESS	4	SDBJFCBE	POINTER TO JFCB EXTENSION
228	(E4)	ADDRESS	4	SDBPIOT	POINTER TO PDDB IOT
232	(E8)	ADDRESS	4	SDBPDDB	POINTER TO PDDB
236	(EC)	SIGNED	4	SDBPDDBA	ALET of PDDB
Related data area. SDBCBAADR is a related CB address and SDBCBALE is the ALET for the related CB. The data area is based on bits in SDBFLG4 or SDBFLG6.					
240	(F0)	SIGNED	4	SDBCBALE	ALET for related CB
244	(F4)	ADDRESS	4	SDBCBAADR	Address of related CB
If SDB6SAPI then related CB is a SAPID					
244	(F4)	X'F0'	0	SDBSAPAL	"SDBCBALE,4,C'F'" ALET for the SAPI data spc
244	(F4)	X'F4'	0	SDBSAPID	"SDBCBAADR,4,C'A'" Address of SAPID. The SAPID is in a data space.
If SDB4IRDR or SDB4NJET related CB is the JRW in the IRWD					
244	(F4)	X'F4'	0	SDBJRW	"SDBCBAADR,4,C'A'" Address of JRW.
248	(F8)	DBL WORD	8	(0)	ALIGN SDBTAB ON DOUBLE WORD



Table 190. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
248	(F8)	BITSTRING	1	SDBTAB	Track cell/Non-track cell TAB. Refer to \$TAB macro for TAB type descriptions
248	(F8)	X'100'	0	SDBAIOT	"TABAIOT-TAB+SDBTAB,,C'A'" POINT TO ALLOCATION IOT
260	(104)	ADDRESS	4	SDBDEB	Pointer to last DEB that was OPENed
264	(108)	DBL WORD	8	SDBTRKF	FIRST RBA
272	(110)	DBL WORD	8	SDBTRK	RBA of 1st LRC in cur buf
280	(118)	DBL WORD	8	SDBTRKC	RBA of next LRC in cur buf
288	(120)	CHARACTER	8	SDBKEY(0)	RECORD VERIFICATION KEY --- (must stay as C type for HASCOFST to compile)
288	(120)	BITSTRING	4	SDBJKEY	4-BYTE UNIQUE JOB KEY
292	(124)	BITSTRING	4	SDBDKEY	4-BYTE UNIQUE DS NO. IN JOB
296	(128)	SIGNED	8	SDBSRECN	Record number of DS start
304	(130)	BITSTRING	1	SDBJMEMN	Target job's member number
305	(131)	BITSTRING	1	SDBHPFCT	HPUTFULL call count
306	(132)	SIGNED	2	SDBJASID	TARGET JOB'S ASID (BROWSE)
308	(134)	CHARACTER	8	SDBRCID	8 CHAR RECVR ID FOR BROWSE
316	(13C)	SIGNED	4	SDBLOGAD	ADDR OF BROWSE LOG STRING
320	(140)	BITSTRING	1	SDBFLGAS	Asynchronous flag byte (updates serialized by local lock)
		...1 ....		SDBASJBL	"B'00010000'" Waiting for job buf limit
		.... 1...		SDBASBWT	"B'00001000'" Waiting for buffer (data set or job limit)
321	(141)	BITSTRING	1	SDBFLG3	FLAG BYTE 3
		1... ....		SDB3NIRB	"B'10000000'" Release TCBNOIRB when SDBLOCK is released
		..1. ....		SDB3LINE	"B'00100000'" RECORD IS LINE MODE
		...1 ....		SDB3PAGE	"B'00010000'" RECORD IS PAGE DATA
		.... 1...		SDB3OUTX	"B'00001000'" ABEND722 IN PROGRESS
		.... .1..		SDB3PBAD	"B'00000100'" PUT was unsuccessful
		.... ..1.		SDB3TRNC	"B'00000010'" Truncate current buffer
		.... ...1		SDB3BTRC	"B'00000001'" DATASET BLANKS TRUNCATED
322	(142)	BITSTRING	1	SDBFLG4	FLAG BYTE 4
		1... ....		SDB4PSO	"B'10000000'" PROCESS-SYSOUT DATA SET
		.1.. ....		SDB4SYIN	"B'01000000'" SYSIN DATA SET
		..1. ....		SDB4SOUT	"B'00100000'" SYSOUT DATA SET
		...1 ....		SDB4RECV	"B'00010000'" DATA SET ALLOCATED FOR RECV
		.... 1...		SDB4SPBR	"B'00001000'" SPOOL BROWSE DATA SET
		.... .1..		SDB4NJET	"B'00000100'" NJE/TCP data set
		.... ..1.		SDB4TNJR	"B'00000010'" NJE/TCP Job Receiver
		.... ...1		SDB4IRDR	"B'00000001'" Internal reader data set
323	(143)	BITSTRING	1	SDBFLG5	FLAG BYTE 5 SERIALIZATION: NONE (DO NOT USE IN SIO OR CHANNEL END APPENDAGES)
		1... ....		SDB5ASY	"B'10000000'" Asynchronous request



Table 190. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1.. ....		SDB5OUTL	"B'01000000'" OUTLIM exceeded for normal PUT request
		..1. ....		SDB5SBNS	"B'00100000'" Spool browse - Do not attempt SRB for this DS (no more data available)
		.... 1...		SDB5ADFR	"B'00001000'" Defer excession limit ABEND (set during close)
		.... .1..		SDB5ABND	"B'00000100'" ABEND for output limit excession (Never reset)
		.... ..1.		SDB5ADMP	"B'00000010'" A DUMP is requested for the 722 ABEND (Never reset)
		.... ...1		SDB5ADON	"B'00000001'" An ABEND 722 has been for this data set (reset if a second ABEND is needed)
324	(144)	BITSTRING	1	SDBFLG6	Flag byte 6
		1... ....		SDB6SAPI	"B'10000000'" Sysout API data set This serves as a modifier of SDB4PSO
		.1.. ....		SDB6GONE	"B'01000000'" SAPIID has been freed
		..1. ....		SDB6PRT	"B'00100000'" Print data set
		...1 ....		SDB6PUN	"B'00010000'" Punch data set
		.... 1...		SDB6TCL	"B'00001000'" Track cell data set
		.... .1..		SDB6FTRK	"B'00000100'" Full track despool data set
		.... ..1.		SDB6NSRB	"B'00000010'" No SRBs for this data set
		.... ...1		SDB6UPDG	"B'00000001'" Update mode GET active
325	(145)	BITSTRING	1	SDBFLG7	Flag byte 7
		1... ....		SDB7PUT1	"B'10000000'" Indicate first put is done in a segment
		.1.. ....		SDB7SPIN	"B'01000000'" SPIN is required for segmentation
		..1. ....		SDB7SUPD	"B'00100000'" Segmentation is suspended
		...1 ....		SDB7NULL	"B'00010000'" PDB1NULL was on when data set (fake) opened
		.... 1...		SDB7JLOG	"B'00001000'" Joblog data set (set only if SPOOL browse SDB)
		.... .1..		SDB7JRPL	"B'00000100'" Extended JES2 mode RPL in use
		.... ..1.		SDB7KSET	"B'00000010'" Callers KEY is already set in SDB (do not reset)
		.... ...1		SDB7SPC	"B'00000001'" Data set spinning support via \$SPIN
<p>SDB7PSCR indicates SCRs are to be processed as normal records. This bit is only honored if an extended RPL is passed (SDB7JRPL is on). Processing is altered as follows:  GET - SCRs are returned to the caller. RPLH1SCR is set if the current record is an SCR.</p>					
		.... ...1		SDB7PSCR	"B'00000001'" GET - Request SCRs returned
<p>The flag bits in SDBFLG8 are used to document why an open failed in the HASP708 message.</p>					
326	(146)	BITSTRING	1	SDBFLG8	Flag byte 8



Table 190. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ....		SDB8TRAK	"B'10000000'" Internal \$TRAK error
		.1.. ....		SDB8CBIO	"B'01000000'" Internal \$CBIO error
		..1. ....		SDB8GASN	"B'00100000'" \$GASSIGN error
		...1 ....		SDB8SJFR	"B'00010000'" SJFREQ error
		.... .1..		SDB8GETB	"B'00000100'" GETBUF failure
		.... ..1.		SDB8NRA	"B'00000010'" Suspend read ahead
		.... ...1		SDB8BD SW	"B'00000001'" HGETCHN swapping data sets
327	(147)	BITSTRING	1	SDBFLG9	Flag byte 9 serialization: none
		1... ....		SDB9LRLO	"B'10000000'" Override LRECL from JFCB
		.1.. ....		SDB9TYP1	"B'01000000'" Logical data set being processed-JCL, JOBL0G..
		..1. ....		SDB9TYP2	"B'00100000'" This is logical file, Use SCRINSJL/RJL SCRs to determine next MTTR
		...1 ....		SDB9TRAK	"B'00010000'" Put update was tracked
		.... 1...		SDB9SRBF	"B'00001000'" GET SRB has failed
		.... .1..		SDB9RDYR	"B'00000100'" Record with result of sym substitution is in a substitution buffer in SDBYSUBF
		.... ..1.		SDB9EOB	"B'00000010'" END-OF-BUFFER indicator
		.... ...1		SDB9RPBF	"B'00000001'" Try again to fill PBF
328	(148)	ADDRESS	4	SDBDSCA	DSCA chain pointer
332	(14C)	ADDRESS	4	SDBDSCAW	Working DSCA CB address
336	(150)	ADDRESS	4	SDBDSCE	Current DSCE address
340	(154)	ADDRESS	4	SDBCDSCE	Channel end DSCE address
344	(158)	ADDRESS	4	SDBSJIOB	SJIOB for CBIO
348	(15C)	ADDRESS	4	SDBJFCB	Pointer to JFCB
352	(160)	DBL WORD	8	(0)	Ensure doubleword alignment
352	(160)		8	SDBOUTLM	SYSOUT OUTLIM= PARAMETER
360	(168)	ADDRESS	4	SDBWTCHN	Buffer wait chain
364	(16C)	SIGNED	4	SDBSGMT	NUMBER OF LOGICAL PAGES PER SEGMENT
368	(170)	SIGNED	4	SDBSEGID	SEGMENT IDENTIFIER
372	(174)	SIGNED	4	SDBPGCT	Logical page counter use for segmentation
376	(178)	DBL WORD	8	SDBOWNER	Owning TCB information
376	(178)	X'170'	0	SDBTTOKN	"SDBOWNER-8,16" TCB Token placed here at SDB Free time; not formatted in dump
384	(180)	BITSTRING	1	SDBCPSWK	Caller PSW byte 1 (key)
385	(181)	BITSTRING	1	SDBFLGG	Flag byte G (GET options) serialization: none



Table 190. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
<p>If SDBGGRCHN and SDBGBFMG are set, then processing assumes that RPLAREA and RPLBUFL are only set in the first RPL in the chain (0 in all others). The code fills in as much of RPLAREA for the first record, updates RPLRLLEN and RPLBUFL to the amount of the buffer used. If there is another RPL and RPLAREA and RPLBUFL are zero, then GET processing points RPLAREA to 1 byte past what was used in the prior call and RPLBUFL to the remaining (unused) length. The RPL chain is processed until there are no more RPLs, there are no more records, or the passed buffer is all used. NOTE: If RPLARA64 is set, it is assumed that the caller sets RPLAREA to an 8 byte area that will be used instead of RPLAREA directly.</p>					
	1... ....			SDBGGRCHN	"B'10000000" Process chained RPLs on GET (use RPLCHAIN field)
	.1.. ....			SDBGBFMG	"B'01000000" When SDBGGRCHN is on, use unused RPLAREA from to populate later RPL
<p>Wait override flags. If these are set, then they override whether HGSPEC waits for I/O or not.</p>					
	..11 ....			SDBGWAIT	"B'00110000" Wait flags
	..1. ....			SDBGWTNO	"B'00100000" Do not wait in HGSPEC
	...1 ....			SDBGWTYS	"B'00010000" Waits are OK in HGSPEC
	.... 1...			SDBGSRBO	"B'00001000" PROTSRB should get object
	.... .1..			SDBGXBIN	"B'00000100" This is XBM input unit
386	(182)	SIGNED	1	SDBGETCT	PROTGET count (number of calls without a point)
387	(183)	SIGNED	1	SDBSRBCT	PROTSRB count (number of SRB calls in a row)
388	(184)	SIGNED	4	SDBSRECB	Waiter ECB
388	(184)	X'4'	0	SDBIVSDB	"4" POST code if SDB no longer OPEN.
392	(188)	ADDRESS	4	SDBBAT	GET processing BAT chain
396	(18C)	SIGNED	4	SDBBATCT	GET BAT count
<p>SDBGMQTR is the next track address that needs to be read for this data set. If this field is zero, that does not imply that we are done reading the data set. It is zero if we are waiting for an I/O to complete. An EXCPVR needs to be issued if: - SDBGMQTR is non-zero - SDBPBLIN is non-zero - There is a BAT (on the SDBBAT chain) that does not have I/O active.</p>					
400	(190)	DBL WORD	8	SDBGMQTI(0)	Next MQTR and flags
400	(190)	BITSTRING	6	SDBGMQTR	Next MQTR for GET to read
406	(196)	BITSTRING	1	SDBGMFG1	Migration I/O flags
	1... ....			SDBG1MPR	"B'10000000" This MTTR processed for migration
	.1.. ....			SDBG1SOV	"B'01000000" Source override - use source DAS for I/O
407	(197)	BITSTRING	1	SDBGMIGT	Migration transition count captured from DAS when I/O is queued
408	(198)	DBL WORD	8	SDBINPBL(0)	--+ Align for CDS/CSG
408	(198)	SIGNED	4	SDBINPBC	Count of chain updates



Table 190. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
412	(19C)	ADDRESS	4	SDBPBLIN	--+ GET inactive PBLOCK chain
416	(1A0)	DBL WORD	8	(0)	--+ Align for CDS
416	(1A0)	ADDRESS	4	SDBPBLAC	GET active PBLOCK chain
420	(1A4)	ADDRESS	4	SDBPBLFL	--+ GET full PBLOCK chain
424	(1A8)	SIGNED	4	SDBPBLCT	GET PBLOCK count
428	(1AC)	SIGNED	4	SDBPBUFC	GET buffer count in PBLKs
432	(1B0)	ADDRESS	4	SDBAPBL	Current PBLOCK
436	(1B4)	ADDRESS	4	SDBAMTRE	Current MQTR entry
440	(1B8)	CHARACTER	12	SDBENQNM	SDB lock minor name
MACRO-DATE = 03/16/15					
452	(1C4)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
452	(1C4)	X'1C4'	0	SDBENQ	"*" X02113
452	(1C4)	ADDRESS	1		PELLAST flag byte. X02113
453	(1C5)	ADDRESS	1		PELMILEN - RNAME length.
454	(1C6)	BITSTRING	1		
PELFLAG - flag byte 2.					
455	(1C7)	ADDRESS	1		PELRET - return code byte.
456	(1C8)	ADDRESS	4		QNAME ADDRESS
460	(1CC)	ADDRESS	4		RNAME ADDRESS
460	(1CC)	X'C'	0	SDBENQL	"*-SDBENQ"
464	(1D0)	ADDRESS	4	SDBUSER1	RESERVED FOR USER
468	(1D4)	ADDRESS	4	SDBUSER2	RESERVED FOR USER
472	(1D8)	SIGNED	4	SDBISTDS	Current instream data set number (initialized to 1)
BUFFER POINTERS USED BY HAM (USE DEPENDENT ON TYPE OF I/O REQUEST BEING PROCESSED)					
476	(1DC)	ADDRESS	4	SDBUBF	Deprecated (not used)
480	(1E0)	ADDRESS	4	SDBPBF	Protected buffer address
484	(1E4)	ADDRESS	4	SDBSCDR	SPOOL data record in PBF
488	(1E8)	ADDRESS	4	SDBPBFS	PBUF save area (Put update)
492	(1EC)	ADDRESS	4	SDBSCDRS	SCDR save area (Put update)
496	(1F0)	SIGNED	4	SDBPBFC(0)	----+ Keep next fields together
496	(1F0)	SIGNED	2	SDBPBFACT	PUT - PBF active count
498	(1F2)	SIGNED	2	SDBPBFACT	----+ PUT - PBF obtained buffers
500	(1F4)	BITSTRING	1	SDBASKEY	Async requestor's key
501	(1F5)	BITSTRING	1	SDBASREQ	Async last request type
502	(1F6)	SIGNED	2	SDBPBFLM	PUT - PBF buffer limit
504	(1F8)	ADDRESS	4	SDBPBFIN	PUT - PBF on it's way from SDBPBF to PBUF chain
508	(1FC)	ADDRESS	4	SDBDSIX	DSIX pointer
512	(200)	ADDRESS	4	SDBCDSXE	Current DSXE pointer
516	(204)	ADDRESS	4	SDBYSUBF	Buffer used for instream symbol substitution
520	(208)	SIGNED	8	SDBRECN	Current record number



Table 190. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
SDBRPL is used for asynch, locate mode requests					
528	(210)	ADDRESS	4	SDBRPL	Pointer to active RPL chain
532	(214)	SIGNED	4	SDBXCPCT	PHYSICAL BUFFER I/O COUNT
536	(218)	DBL WORD	8	SDBUPRBA	RBA FOR GET/PUT-UPDATE & POINT
544	(220)	DBL WORD	8	SDBURBAS	POINT RBA save area
552	(228)	BITSTRING	6	SDBPTIME	Time stamp for POINT
558	(22E)	BITSTRING	1	SDBFLGP	POINT flag byte
		1... ....		SDBPPNT	"B'10000000" Point operation active
		.1.. ....		SDBPRTOK	"B'01000000" Point operation retryable
		..1. ....		SDBPRTRY	"B'00100000" Point retry not attempted
		...1 ....		SDBPTIMN	"B'00010000" Point by next time
		.... 1...		SDBPTIMP	"B'00001000" Point by previous time
		.... .1..		SDBPBLKF	"B'00000100" HFILLBLK is active
		.... ..1.		SDBPBLKP	"B'00000010" HFILLBLK is doing prefill
559	(22F)	CHARACTER	1	SDBGCCHR	CC for RPLCCHAR to point to
560	(230)	SIGNED	4	SDBHFRCT	HFINDRBA residual count
564	(234)	BITSTRING	6	SDBMQTR	MQTR of next block
570	(23A)	BITSTRING	1	SDBFLGB	Flag byte serialization: none
		1... ....		SDBBRSLE	"B'10000000" Resource limit error
		.1.. ....		SDBBEROR	"B'01000000" Error on last request (not EOD)
		.... ..1.		SDBBOPEN	"B'00000010" OPEN in progress
		.... ...1		SDBBCLOS	"B'00000001" CLOSE in progress
571	(23B)	BITSTRING	1		Reserved
572	(23C)	ADDRESS	4	SDBASECB	Address of async ECB
576	(240)	SIGNED	4	SDBNBLK	NUMBER OF DATA BLOCKS READ
580	(244)	SIGNED	4	SDBBFECB	WAIT-BUF ECB FOR SVCPUTS
584	(248)	ADDRESS	4	SDBYLCG	Ptr to logging YLGC
588	(24C)	SIGNED	4	SDBPJUSE	Projected JOE use
592	(250)	DBL WORD	8	SDBDWORK	Doubleword work area
600	(258)	DBL WORD	8	SDBDWRK2	Doubleword work area
600	(258)	X'250'	0	SDBWRK16	"SDBDWORK,16" 16 byte work area
608	(260)	BITSTRING	7	SDBSCDRQ	SCDR work area
608	(260)	BITSTRING	1	SDBPRECI(0)	PUTREC REC_INFO area
608	(260)	BITSTRING	1	SDBPLRFC	LRC flag byte copy
609	(261)	BITSTRING	6	SDBPSTKE	STCKE of PUT (indexed ds)
615	(267)	BITSTRING	1	SDBGSPRS	HGSPEC reason code
616	(268)	BITSTRING	6	SDBIOTMQ	MQTR of Pddb IOT
622	(26E)	BITSTRING	2	SDBLGDSV(0)	HAM GET logical data set view types requested
622	(26E)	BITSTRING	1	SDBLGDV1	logical dataset view type1
623	(26F)	BITSTRING	1	SDBLGDV2	logical dataset view type2



Table 190. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Packed decimal versions of count fields					
624	(270)		8	SDBDRECD	Logical record count in packed decimal format
632	(278)		8	SBDPAGE	Actual page count in packed decimal format
640	(280)		8	SDBDBYTE	Actual byte count in packed decimal format
Binary versions of count fields (for Pddb)					
648	(288)	SIGNED	4	SDBRECCT	Logical record count
652	(28C)	SIGNED	4	SDBPAGCT	Actual page count
656	(290)	SIGNED	4	SDBBYTCT	Actual byte count
660	(294)	ADDRESS	4	SDBSPC	Address of spin control
Pddb pending update section. When the buffer whose address is specified is seen in the channel end appendage, the corresponding counts are updated in the Pddb.					
664	(298)	SIGNED	4	SDBPNCNT	Buffers updates since last Pddb update
668	(29C)	BITSTRING	6	SDBPNMQT	Buffer spool address (MQTR)
674	(2A2)	BITSTRING	2		Reserved
676	(2A4)	SIGNED	4	SDBPNREC	Logical record count
680	(2A8)	SIGNED	4	SDBPNPAG	Actual page count
684	(2AC)	SIGNED	4	SDBPNBYT	Actual byte count
688	(2B0)	ADDRESS	4	SDBLCKRB	RB pointer used by PGEXCPCK
SPOOL compression/Encryption section					
692	(2B4)	ADDRESS	4	SDBDSEL	Address of DSETLVL
696	(2B8)	ADDRESS	8	SDBENCO	Address of encryption object created by ENCRYPTV
SDBOBRBA is the RBA of the 1st record in the current encryption object. For GET this is the object that was last PRIMEBLKed. For PUT this is the object that PUTREC goes into.					
704	(2C0)	DBL WORD	8	SDBOBRBA	RBA of 1st record in current encryption object
PUT processing fields					
712	(2C8)	ADDRESS	8	SDBPDATA	Data address
720	(2D0)	ADDRESS	8	SDBPSDAT	and save data address
728	(2D8)	ADDRESS	4	SDBDEFBF	PUT deferred buffer address
732	(2DC)	SIGNED	2	SDBPRECL	Actual record length
734	(2DE)	SIGNED	2	SDBPSRCL	and save record length
736	(2E0)	SIGNED	2	SDBPLRCL	LRECL of record
738	(2E2)	SIGNED	2	SDBBLKCT	Count of records in HDB
740	(2E4)	BITSTRING	1	SDBPCCHR	Control character
741	(2E5)	BITSTRING	1	SDBPLRCF	LRC flag byte



Table 190. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
742	(2E6)	BITSTRING	6	SDBPRVOB	Prev object start MQTR (used to set HDBDATPR)
PUT fields used for indexed data sets. These fields have the same value if a single record is being processed (vs a data object)					
748	(2EC)	BITSTRING	6	SDBPLSKE	Lowest STCKE for record
754	(2F2)	BITSTRING	6	SDBPHSKE	Highest STCKE for record
760	(2F8)	ADDRESS	8	SDBPFREC	Record number of 1st record in a data object (same as SDBRECN for normal recs)
768	(300)	BITSTRING	1	SDBFLGA	Flag byte A
		1... ....		SDBACOMP	"B'10000000" Compression in use
		.1.. ....		SDBAENCR	"B'01000000" Encryption in use
		..1. ....		SDBAADVF	"B'00100000" Advanced format HDBs in use
		...1 ....		SDBADATT	"B'00010000" HDBs contain data block areas (data block prefix)
		.... 1...		SDBASETU	"B'00001000" Oper=setupe performed on encryption object in SDBENCO
		.... .1..		SDBAXLIM	"B'00000100" Dataset is exempt from resource limit check
769	(301)	BITSTRING	1	SDBFLGW	Misc PUT flags
		1... ....		SDBWFSCR	"B'10000000" SCR put pending
		.1.. ....		SDBWFCLO	"B'01000000" Close pending
		..1. ....		SDBWFML0	"B'00100000" Multiple objects
		...1 ....		SDBWFBGS	"B'00010000" HDB has a begin segment
		.... 1...		SDBWFCNT	"B'00001000" HDB has an object non begin segment
		.... .1..		SDBWFNDS	"B'00000100" HDB has an object end segment
		.... ..1.		SDBWFENS	"B'00000010" ENDREQ data was saved
		.... ...1		SDBWFOBP	"B'00000001" At least 1 PUT to object
Fields used by ENDREQ when objects are involved. With object processing, we must save MQTRs obtained during ENDREQ for when the HDBs are finally written					
770	(302)	SIGNED	2	SDBPETRL	ENDREQ MQTR save area len
772	(304)	ADDRESS	4	SDBPETRK	and address
776	(308)	ADDRESS	4	SDBPEPBF	ENDREQ BFD PBF save area
780	(30C)	ADDRESS	4	SDBPELOC	ENDREQ BFD LOC save area
784	(310)	ADDRESS	4	SDBPESCD	ENDREQ SDBSCDR save area
788	(314)	SIGNED	2	SDBPELEN	ENDREQ BFD LEN save area
790	(316)	SIGNED	2	SDBPEBCT	ENDREQ SDBBLKCT save area
792	(318)	BITSTRING	6	SDBPEQTR	ENDREQ SDBMQTR save area
GET processing fields					
798	(31E)	SIGNED	2	SDBGTB0F	Offset to move new data to 0 implies empty SDBGTBK -1 implies full SDBGTBK
800	(320)	ADDRESS	8	SDBGTBK	Current data block



Table 190. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
808	(328)	BITSTRING	6	SDBGPMQT	MQTR of 1st LRC primed
814	(32E)	BITSTRING	2	SDBGSTRO	Buffer offset to use when SDBG1LOC is set
816	(330)	SIGNED	2	SDBOBREC	Pending data block record #
818	(332)	SIGNED	2	SDBOBPRC	Previous data block rec #
820	(334)	ADDRESS	4	SDBGAPBL	PBLOCK GET is reading from
824	(338)	ADDRESS	4	SDBGAPBE	and MQTR entry
828	(33C)	BITSTRING	1	SDBGCCCTL	Carriage control options (Same values as GETCCTL byte in IAZENOBJ)
		.... ....		SDBGCCAI	"X'00'" GETASIS ASIS CC option
		.... ...1		SDBGCCAL	"X'01'" GETALWAY Always CC option
		.... ...1.		SDBGCCNV	"X'02'" GETNEVER Never CC option
829	(33D)	BITSTRING	1	SDBGLRCF	GET LRC flag byte
830	(33E)	SIGNED	2	SDBGRECL	GET record length
832	(340)	BITSTRING	1	SDBGFLG1	GET processing flags
		1... ....		SDBG1GOB	"B'10000000'" Get from object active
		.1.. ....		SDBG1NOR	"B'01000000'" Non-object record found
		...1 ....		SDBG1SML	"B'00010000'" RPLAREA is too small
		.... 1...		SDBG1LOC	"B'00001000'" GET use PBLMLOC in PBLK (/ ROUTE XEQ case)
		.... .1..		SDBG1CCS	"B'00000100'" Special CC processing
		.... ...1.		SDBG1INS	"B'00000010'" Instream data set browse
		.... ...1		SDBG1JLI	"B'00000001'" Logical instream data set
833	(341)	BITSTRING	1	SDBGFLG2	More GET processing flags (ZEROed at top of GET)
		1... ....		SDBG2SPN	"B'10000000'" Pending object spanner
		.1.. ....		SDBG2LSP	"B'01000000'" Pending LRC spanned rec
		..1. ....		SDBG2RCT	"B'00100000'" Residual count in RBA
834	(342)	BITSTRING	1	SDB722RS	Reason for ABEND 722
835	(343)	BITSTRING	1		Reserved
Diagnostic area for unwritten buffer processing. The following are input areas passed to the SRB.					
836	(344)	BITSTRING	1	SDBSBWF1	Copy of SBWAF1G1
837	(345)	BITSTRING	1	SDBSBWAF	Copy of SBWAF1G2
838	(346)	BITSTRING	6	SDBMQTRT	Target MQTR
844	(34C)	ADDRESS	4	SDBFSDB	SDB address given to SRB
848	(350)	BITSTRING	8	SDBBKEY	Unique buffer key
856	(358)	BITSTRING	8	SDBSTKN	STOKEN given to IEAMSCHD
The following are output fields from the SRB.					
864	(360)	SIGNED	4	SDBRETC	Return code from PROTSRB
868	(364)	BITSTRING	4		Reserved
872	(368)	DBL WORD	8	SDBSRBST(0)	Output area from HASCUBSR. Keep fields SDBSDBA thru SDBBPTFA together.
872	(368)	ADDRESS	4	SDBSDBA	---+ A(SDB) that matches the key



Table 190. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
876	(36C)	ADDRESS	4	SDBAPBF	SDBPBF
880	(370)	ADDRESS	4	SDBPBFI	Inflight PBF buffer address
884	(374)	ADDRESS	4	SDBBPTR	Address of found buffer
888	(378)	SIGNED	8	SDBBRNUM	Record number requested
896	(380)	CHARACTER	8	SDBBRBAX(0)	MQTR/Record # field
896	(380)	BITSTRING	6	SDBBTRKQ	MQTR of found buffer
902	(386)	BITSTRING	2	SDBBTREC	Record number of 1st LRC
904	(388)	ADDRESS	4	SDBBADBF	Address of invalid buffer
908	(38C)	ADDRESS	4	SDBADSDB	Address of invalid SDB
912	(390)	ADDRESS	4	SDBBPBF	BATPBF if checking this Q
916	(394)	ADDRESS	4	SDBBPTFA	---+ BATPBFA if checking this Q
916	(394)	X'30'	0	SDBSOLEN	"*-SDBSDBA" L'(PROTSRB) diagnostic area
916	(394)	X'368'	0	SDBSRBOA	"SDBSRBST,SDBSOLEN" Field for area with length
ASOK fields.					
920	(398)	BITSTRING	8	SDBASOK(0)	ASOK fields
922	(39A)	SIGNED	2	SDBASOK0	Ordinality of ASOK L1
924	(39C)	SIGNED	2	SDBASOK1	Offset into Level 1 ASOK
926	(39E)	SIGNED	2	SDBASOK2	Offset into Level 2 ASOK
928	(3A0)	SIGNED	8	SDBPRECN	Prev record number (POINT)
Copy of RPL when SDB is locked (if any) First 38x bytes (through and including RPLBUFL)					
936	(3A8)	DBL WORD	8	(0)	
936	(3A8)	BITSTRING	56	SDBRPLC	Copy of RPL
Data block MQTR/record number mapping This table is built by PUT processing when when data blocks are in use. This is so PROTSRB via UBSR can include in the data returned the MQTR and record number of the first record in the data block (fields needed to construct the RBA). Since UBSR runs asynchronously, a table of the last 4 data blocks is maintained in the SDB by PROTPUT. The area is mapped by SBWAMQTB in \$SBWA					
992	(3E0)		1	(0)	Quadword alignment
992	(3E0)	BITSTRING	80	SDBMQTBL	MQTR/Record number table
992	(3E0)		1	(0)	Quadword align parm list
992	(3E0)	BITSTRING	32	SDBHCEPL	HENDREAD CSST parm list
1024	(400)	BITSTRING	48	SDBSAV6	6 double word save area for GET processing
Diagnostic tracing area					
1072	(430)	ADDRESS	8	SDBCTRAC	Pointer to CTRACE buffer
1080	(438)	CHARACTER	17	SDBCTSUB	CTRACE sub name
1080	(438)	X'43C'	0	SDBCTSAS	"SDBCTSUB+4,4" ASID portion and SDB
1080	(438)	X'441'	0	SDBCTSDB	"SDBCTSUB+9,8" address part of name
Reserved space					



Table 190. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1080	(438)	X'480'	0	SDBLNG	"((*-SDB+127)/128)*128" Length of DSECT

Table 191. Structure ASOK

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ASOK	
0	(0)	CHARACTER	4	ASOEYE	Eye catcher ASOK level 1
4	(4)	ADDRESS	4	ASONEXT	Addr of next level 1 ASOK
8	(8)	ADDRESS	4	ASOPTR(0)	Addresses of level 2 ASOKs
8	(8)	X'4'	0	ASOELEN1	"4" Length of one entry ... caution! Length must be a power of 2
8	(8)	X'3FE'	0	ASONRL1	"1022" Number of L1 entries
8	(8)	X'1000'	0	ASOLENL1	"8+ASOELEN1*ASONRL1" Length of L1 ASOKs

DC C'ASO2' Eye catcher level 2 ASOK

4	(4)	ADDRESS	4	ASOCOUNT	Count of available entries
8	(8)	ADDRESS	4	ASOSDB(0)	Addresses of SDBs
8	(8)	X'8'	0	ASOELEN2	"8" Length of one entry ... caution! Length must be a power of 2
8	(8)	X'1FF'	0	ASONRL2	"511" Number of L2 entries
8	(8)	X'1000'	0	ASOLENL2	"8+ASOELEN2*ASONRL2" Length of L2 ASOKs
8	(8)	X'8'	0	ASOIRWD	"ASOSDB,4,C'A'" Addresses of IRWDs

Table 192. Structure SIWSRBP

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SIWSRBP	, PROTSRB parm list
Start of input area passed via \$XREQ					
0	(0)	ADDRESS	4	SIWGTBF	Protected buffer address
4	(4)	BITSTRING	8	SIWSPAD(0)	SPIOSPAD Spool address to be found
4	(4)	BITSTRING	1	SIWSPADF(0)	Address type (FF->MQTR)
4	(4)	BITSTRING	4	SIWSPADM	MTTR to process
8	(8)	BITSTRING	4		Reserved
4	(4)	BITSTRING	2		Reserved
6	(6)	BITSTRING	6	SIWSPADQ	MQTR to process
4	(4)	BITSTRING	8	SIWSRNUM	Dataset record number
12	(C)	BITSTRING	4	SIWJKEY	SPIOJKEY Job key
16	(10)	SIGNED	4	SIWDSKY	SPIODSKY Dataset key
20	(14)	SIGNED	2	SIWASID	SPIOASID ASID where job is running
22	(16)	BITSTRING	1	SIWMEMN	Member name where job run
23	(17)	BITSTRING	1	SIWFLAG2	Flag byte
		1... ....		SIWF2SPB	"B'10000000'" Spool browse
		.1.. ....		SIWF2JLG	"B'01000000'" Job log data set
		..1. ....		SIWF2ARQ	"B'00100000'" ASINFO requested



Table 192. Structure SIWSRBP (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		...1 ....		SIWF2ART	"B'00010000" ASINFO returned
		.... 1...		SIWF2ATI	"B'00001000" Transaction Initiator
		.... .1..		SIWF2DTB	"B'00000100" Data block request
		.... ..1.		SIWF2SPN	"B'00000010" Looking for spanner
23	(17)	X'18'	0	SIWSRBL1	"*-SIWSRBP" Length of the request ver 1
End of input area passed via \$XREQ Start of output area filled in by PROTSRB					
24	(18)	SIGNED	8	SIWSRBAX	Spool browse returned RBAX
32	(20)	BITSTRING	212	SIWASINF	ASINFO (IAZLGSTP mapped)
248	(F8)	DBL WORD	8	(0)	Align length
248	(F8)	X'F8'	0	SIWSRBLN	"*-SIWSRBP" Length of the request

Table 193. Cross Reference for \$SDB

Name	Offset	Hex Tag
ASOCOUNT	4	
ASOELEN1	8	4
ASOELEN2	8	8
ASOEYE	0	C1E2D6F1
ASOIRWD	8	8
ASOK	0	
ASOLENL1	8	1000
ASOLENL2	8	1000
ASONEXT	4	
ASONRL1	8	3FE
ASONRL2	8	1FF
ASOPTR	8	
ASOSDB	8	
SDB	0	
SDBAADVF	300	20
SDBACOMP	300	80
SDBADATT	300	10
SDBADSDB	38C	
SDBAENCR	300	40
SDBAIOT	F8	100
SDBAMTRE	1B4	
SDBAPBF	36C	
SDBAPBL	1B0	
SDBASBWT	140	8
SDBASECB	23C	
SDBASETU	300	8



Table 193. Cross Reference for \$SDB (continued)

Name	Offset	Hex Tag
SDBASJBL	140	10
SDBASKEY	1F4	
SDBASOK	398	
SDBASOK0	39A	
SDBASOK1	39C	
SDBASOK2	39E	
SDBASREQ	1F5	
SDBAXLIM	300	4
SDBBADBF	388	
SDBBAT	188	
SDBBATCT	18C	
SDBBCLOS	23A	1
SDBBEROR	23A	40
SDBBFECB	244	
SDBBKEY	350	
SDBBLKCT	2E2	
SDBBOPEN	23A	2
SDBBPBF	390	
SDBBPTFA	394	
SDBBPTR	374	
SDBBRBAX	380	
SDBBRNUM	378	
SDBBRSLE	23A	80
SDBBTREC	386	
SDBBTRKQ	380	
SDBBYTCT	290	
SDBCBAADR	F4	
SDBCBALE	F0	
SBCDSCE	154	
SBCDSXE	200	
SBCPSWK	180	
SDBCTRAC	430	
SDBCTSAS	438	43C
SDBCTSDB	438	441
SDBCTSUB	438	
SDBDBYTE	280	
SDBDDNM	C0	
SDBDEB	104	
SDBDEFBF	2D8	



Table 193. Cross Reference for \$SDB (continued)

Name	Offset	Hex Tag
SDBDKEY	124	
SBDPAGE	278	
SBDRECD	270	
SBDSCA	148	
SBDSCAW	14C	
SBDSCCE	150	
SBDSEL	2B4	
SBDSIX	1FC	
SBDWORK	250	
SBDWRK2	258	
SDBENCO	2B8	
SDBENQ	1C4	1C4
SDBENQL	1CC	C
SDBENQNM	1B8	E2C4C24B
SDBEVSKP	BE	10
SDBFLAGY	BF	
SDBFLGA	300	
SDBFLGAS	140	
SDBFLGB	23A	
SDBFLGG	181	
SDBFLGM	BE	
SDBFLGP	22E	
SDBFLGW	301	
SDBFLG1	BC	
SDBFLG2	BD	
SDBFLG3	141	
SDBFLG4	142	
SDBFLG5	143	
SDBFLG6	144	
SDBFLG7	145	
SDBFLG8	146	
SDBFLG9	147	
SDBFSDB	34C	
SDBGAPBE	338	
SDBGAPBL	334	
SDBGBFMG	181	40
SDBGCCAI	33C	0
SDBGCCAL	33C	1
SDBGCCR	22F	



Table 193. Cross Reference for \$SDB (continued)

Name	Offset	Hex Tag
SDBGCCNV	33C	2
SDBGCTL	33C	
SDBGCTCT	182	
SDBGFLG1	340	
SDBGFLG2	341	
SDBGLRCF	33D	
SDBGMFG1	196	
SDBGMIGT	197	
SDBGMQTI	190	
SDBGMQTR	190	
SDBGPMQT	328	
SDBGRCHN	181	80
SDBGRECL	33E	
SDBGSPRS	267	
SDBGSRBO	181	8
SDBGSTRO	32E	
SDBGTBLK	320	
SDBGTBOF	31E	
SDBGWAIT	181	30
SDBGWTNO	181	20
SDBGWTYS	181	10
SDBGXBIN	181	4
SDBG1CCS	340	4
SDBG1GOB	340	80
SDBG1INS	340	2
SDBG1JLI	340	1
SDBG1LOC	340	8
SDBG1MPR	196	80
SDBG1NOR	340	40
SDBG1SML	340	10
SDBG1SOV	196	40
SDBG2LSP	341	40
SDBG2RCT	341	20
SDBG2SPN	341	80
SDBHCCT	D4	
SDBHCEPL	3E0	
SDBHFRCT	230	
SDBHPFCT	131	
SDBID	B0	



Table 193. Cross Reference for \$SDB (continued)

Name	Offset	Hex Tag
SDBINPBC	198	
SDBINPBL	198	
SDBIOTMQ	268	
SDBISTDS	1D8	
SDBIVSDB	184	4
SDBJASID	132	
SDBJFCB	15C	
SDBJFCBE	E0	
SDBJKEY	120	
SDBJMEMN	130	
SDBJRW	F4	F4
SDBKEY	120	
SDBLCKRB	2B0	
SDBLENG	B4	
SDBLGDSV	26E	
SDBLGDV1	26E	
SDBLGDV2	26F	
SDBLNG	438	480
SDBLOGAD	13C	
SDBMCNCT	BE	1
SDBMJML	BE	80
SDBMJSM	BE	40
SDBMQTBL	3E0	
SDBMQTR	234	
SDBMQTRT	346	
SDBMRSKP	BE	20
SDBMSJDS	BE	C0
SDBMSPEC	BE	8
SDBNBLK	240	
SDBNOTIF	BE	2
SDBOBPRC	332	
SDBOBRBA	2C0	
SDBOBREC	330	
SDBOPNCT	C8	
SDBOUTLM	160	
SDBOUTPU	BE	4
SDBOWNER	178	
SDBPAGCT	28C	
SDBPBF	1E0	



Table 193. Cross Reference for \$SDB (continued)

Name	Offset	Hex Tag
SDBPBFAC	1F0	
SDBPBFCS	1F0	
SDBPBFCT	1F2	
SDBPBFI	370	
SDBPBFIN	1F8	
SDBPBFML	1F6	
SDBPBFS	1E8	
SDBPBLAC	1A0	
SDBPBLCT	1A8	
SDBPBLFL	1A4	
SDBPBLIN	19C	
SDBPBLKF	22E	4
SDBPBLKP	22E	2
SDBPBUFC	1AC	
SDBPCCHR	2E4	
SDBPDATA	2C8	
SDBPDDB	E8	
SDBPDDBA	EC	
SDBPEBCT	316	
SDBPELEN	314	
SDBPELOC	30C	
SDBPEPBF	308	
SDBPEQTR	318	
SDBPESCD	310	
SDBPETRK	304	
SDBPETRL	302	
SDBPFREC	2F8	
SDBPGCT	174	
SDBPHSKE	2F2	
SDBPIOT	E4	
SDBPJUSE	24C	
SDBPLRCF	2E5	
SDBPLRCL	2E0	
SDBPLRFC	260	
SDBPLSKE	2EC	
SDBPNBYT	2AC	
SDBPNCNT	298	
SDBPNMQT	29C	
SDBPNPAG	2A8	



Table 193. Cross Reference for \$SDB (continued)

Name	Offset	Hex Tag
SDBPNREC	2A4	
SDBPPNT	22E	80
SDBPRECI	260	
SDBPRECL	2DC	
SDBPRECN	3A0	
SDBPRTOK	22E	40
SDBPRTRY	22E	20
SDBPRVOB	2E6	
SDBPSDAT	2D0	
SDBPSRCL	2DE	
SDBPSTKE	261	
SDBPTIME	228	
SDBPTIMN	22E	10
SDBPTIMP	22E	8
SDBRCID	134	
SDBRECCT	288	
SDBRECN	208	
SDBRETC	360	
SDBRPL	210	
SDBRPLC	3A8	
SDBR14SV	B8	
SDBSAPAL	F4	F0
SDBSAPID	F4	F4
SDBSAVE	0	
SDBSAV6	400	
SDBSBWAF	345	
SDBSBWF1	344	
SDBSCDR	1E4	
SDBSCDRQ	260	
SDBSCDRS	1EC	
SDBSDB	DC	
SDBSDBA	368	
SDBSEGID	170	
SDBSGMT	16C	
SDBSJB	D8	
SDBSJI0B	158	
SDBSOLEN	394	30
SDBSPC	294	
SDBSRBCT	183	



Table 193. Cross Reference for \$SDB (continued)

Name	Offset	Hex Tag
SDBSRBOA	394	368
SDBSRBST	368	
SDBSRECB	184	
SDBSRECN	128	
SDBSTKN	358	
SDBSTMT#	B6	
SDBTAB	F8	
SDBTCBM	CC	
SDBTCBO	D0	
SDBTRK	110	
SDBTRKC	118	
SDBTRKF	108	
SDBTTOKN	178	170
SDBUBF	1DC	
SDBUPRBA	218	
SDBURBAS	220	
SDBUSER1	1D0	
SDBUSER2	1D4	
SDBWFBGS	301	10
SDBWFCL0	301	40
SDBWFCNT	301	8
SDBWFENS	301	2
SDBWFML0	301	20
SDBWFNDS	301	4
SDBWFOBP	301	1
SDBWFSCR	301	80
SDBWRK16	258	250
SDBWTCHN	168	
SDBXCPCT	214	
SDBYLGC	248	
SDBYSUBF	204	
SDB1CLOS	BC	4
SDB1ENDR	BC	2
SDB1ENQ	BC	40
SDB1FOPN	BC	1
SDB1GET	BC	80
SDB1HPUT	BC	10
SDB1OUT	BC	8
SDB1PUT	BC	20



Table 193. Cross Reference for \$SDB (continued)

Name	Offset	Hex Tag
SDB2CMPF	BD	2
SDB2DSRS	BD	4
SDB2E0D	BD	10
SDB2INDX	BD	1
SDB2IOE	BD	80
SDB2SRBO	BD	8
SDB2VAL	BD	40
SDB2VDK	BD	20
SDB3BTRC	141	1
SDB3LINE	141	20
SDB3NIRB	141	80
SDB3OUTX	141	8
SDB3PAGE	141	10
SDB3PBAD	141	4
SDB3TRNC	141	2
SDB4IRDR	142	1
SDB4NJET	142	4
SDB4PSO	142	80
SDB4RECV	142	10
SDB4SOUT	142	20
SDB4SPBR	142	8
SDB4SYIN	142	40
SDB4TNJR	142	2
SDB5ABND	143	4
SDB5ADFR	143	8
SDB5ADMP	143	2
SDB5ADON	143	1
SDB5ASY	143	80
SDB5OUTL	143	40
SDB5SBNS	143	20
SDB6FTRK	144	4
SDB6GONE	144	40
SDB6NSRB	144	2
SDB6PRT	144	20
SDB6PUN	144	10
SDB6SAPI	144	80
SDB6TCL	144	8
SDB6UPDG	144	1
SDB7JLOG	145	8



Table 193. Cross Reference for \$SDB (continued)

Name	Offset	Hex Tag
SDB7JRPL	145	4
SDB7KSET	145	2
SDB7NULL	145	10
SDB7PSCR	145	1
SDB7PUT1	145	80
SDB7SPC	145	1
SDB7SPIN	145	40
SDB7SUPD	145	20
SDB722RS	342	
SDB8BDSW	146	1
SDB8CBIO	146	40
SDB8GASN	146	20
SDB8GETB	146	4
SDB8NRA	146	2
SDB8SJFR	146	10
SDB8TRAK	146	80
SDB9EOB	147	2
SDB9LRLO	147	80
SDB9RDYR	147	4
SDB9RPBF	147	1
SDB9SRBF	147	8
SDB9TRAK	147	10
SDB9TYP1	147	40
SDB9TYP2	147	20
SIWASID	14	
SIWASINF	20	
SIWDSKY	10	
SIWFLAG2	17	
SIWF2ARQ	17	20
SIWF2ART	17	10
SIWF2ATI	17	8
SIWF2DTB	17	4
SIWF2JLG	17	40
SIWF2SPB	17	80
SIWF2SPN	17	2
SIWGTBF	0	
SIWJKEY	C	
SIWMEMN	16	
SIWSPAD	4	



Table 193. Cross Reference for \$SDB (continued)

Name	Offset	Hex Tag
SIWSPADF	4	
SIWSPADM	4	
SIWSPADQ	6	
SIWSRBAX	18	
SIWSRBLN	F8	F8
SIWSRBL1	17	18
SIWSRBP	0	
SIWSRNUM	4	

## \$SFRB information

### \$SFRB programming interface information

\$SFRB is a programming interface.

### \$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  
CCTSFPNQ 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  
TRESFRB field of the \$TRE data area  
SSWSFRB field of the \$SFSWORK 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 mapping**

Table 194. Structure SFRB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SFRB	
0	(0)	X'0'	0	SFRBGN	"*"
0	(0)	CHARACTER	4	SFRBID	Acronym set to 'SFRB'
4	(4)	ADDRESS	1	SFRBVER	Version number of SFRB
	.... ..1			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)
Flag byte input from caller to function rtn Bits defined in function dependent area					
16	(10)	BITSTRING	1	SFRFFLG	Function Request Flag
Indicator byte for \$BLDMSG processing of msgs					
17	(11)	BITSTRING	1	SFRBMSGI	Indicator byte for \$BLDMSG
Flag byte to footprint processing of block					
18	(12)	BITSTRING	1	SFRFLG1	Flag Byte
	1... ....			SFR1PROC	"B'10000000'" Process Indicator
	.1.. ....			SFR1SUBT	"B'01000000'" Block given to subtask
	..1. ....			SFR1ERR	"B'00100000'" Error occurred
	...1 ....			SFR1JBLK	"B'00010000'" Job lock acquired
	.... 1...			SFR1JOEB	"B'00001000'" JOE made busy
	.... .1..			SFR1MSGP	"B'00000100'" Awaiting resources msg sent
Status byte to indicate status of request					
19	(13)	BITSTRING	1	SFRSTAT	Status Byte
	.1.. ....			SFRSFINI	"B'01000000'" Processing Complete
	..1. ....			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	SFRTOKN	Address of UTOKEN
36	(24)	CHARACTER	8	SFRRJOBI	Requestor jobid
44	(2C)	CHARACTER	8	SFRRJOBNAME	Requestor jobname
52	(34)	CHARACTER	8	SFRTIME(0)	Time Stamp of request
52	(34)	SIGNED	4	SFRCTME	Significant part of time



Table 194. Structure SFRB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
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
Specific function request data area begins here					
60	(3C)	X'44'	0	SFRBFOR	"*" Functional area origin
Specific function request bit definitions for Flag byte SFRFFLG Bit definitions should correspond to input flag SSSFFLG1 in macro IAZSSSF and in X045FLG1 in \$XPL.					
		1... ....		SFRFDES	"B'10000000'" Destination Check Request
		.1.. ....		SFRFSECL	"B'01000000'" Seclabel check request
		..1. ....		SFRFJSSP	"B'00100000'" JESSPOOL check (default)
Modify request data					
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	SFRODP	ODPARM pointer
80	(50)	SIGNED	4	SFRJOEP	JOE pointer
The following area corresponds to modify request area in the SSOB extension IAZSSSF					
84	(54)	CHARACTER	8	SFRJBNM	JOBNAME
92	(5C)	CHARACTER	8	SFRJBID	JOBID
100	(64)	CHARACTER	8	SFRGRPN	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	SFRMRV2	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

Table 195. Cross Reference for \$SFRB

Name	Offset	Hex Tag
SFRB	0	



Table 195. Cross Reference for \$SFRB (continued)

Name	Offset	Hex Tag
SFRBCVR	4	1
SFRBFOR	3C	44
SFRBGN	0	0
SFRBID	0	E2C6D9C2
SFRBLIFO	C	
SFRBMSGI	11	
SFRBNXT	8	
SFRBRSV1	5	
SFRBRSV2	6	
SFRBVER	4	
SFRCART	74	
SFRCKTKN	18	
SFRCNID	7C	
SFRCTME	34	
SFRERAD	84	
SFRERLN	8A	
SFRFDES	3C	80
SFRFFLG	10	
SFRFJSSP	3C	20
SFRFLG1	12	
SFRFSECL	3C	40
SFRFTIM	3C	
SFRGRPN	64	
SFRGRP1	6C	
SFRGRP2	6E	
SFRHSZE	3C	44
SFRISTM	38	
SFRJBID	5C	
SFRJBNM	54	
SFRJBNUM	48	
SFRJOEP	50	
SFRMDAD	80	
SFRMDLN	88	
SFRMREA	44	
SFRMRSV2	70	
SFRMRSZ	90	4C
SFRODP	4C	
SFRRC	14	
SFRRJOBI	24	



Table 195. Cross Reference for \$SFRB (continued)

Name	Offset	Hex Tag
SFRRJOB	2C	
SFRSFINI	13	40
SFRSQD	1C	
SFRSSCOM	13	20
SFRSTAT	13	
SFRTIME	34	
SFRTOKN	20	
SFR1ERR	12	20
SFR1JBLK	12	10
SFR1JOEB	12	8
SFR1MSGP	12	4
SFR1PROC	12	80
SFR1SUBT	12	40

## \$SFRWORK information

### \$SFRWORK programming interface information

\$SFRWORK is a programming interface.

### \$SFRWORK heading information

<b>Common name:</b>	JES2 Scheduler Services PCE Work Area
<b>Macro ID:</b>	\$SFRWORK
<b>DSECT name:</b>	PCE (\$SFRWORK is part of the PCE DSECT)
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'PCE ' Offset: PCEEYE-PCE Length: 4
<b>Storage attributes:</b>	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
<b>Size:</b>	See symbol SRWPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.
<b>Created by:</b>	See \$PCE
<b>Pointed to by:</b>	\$SFSPCE field of the \$HCT data area See \$PCE for other pointer fields that apply to all PCE types.
<b>Serialization:</b>	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 mapping**

Table 196. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	BITSTRING	1	SRWFLG1	Processing flag
		1... ....		SRW1ACTV	"B'10000000" PCE active indicator
		.1.. ....		SRW1RCVY	"B'01000000" Recovery situation
		..1. ....		SRW1SNXT	"B'00100000" Use SFRB NXT (FIFO) chain
337	(151)	BITSTRING	3	SRWRSV1	Reserved for IBM use
340	(154)	SIGNED	2	SRWREQCT	Count of lost request blks
342	(156)	SIGNED	2	SRWABEND	Count of abends
342	(156)	X'3'	0	SRWLIMIT	"3" Reasonable limit of abends
344	(158)	SIGNED	4	(0)	
344	(158)	BITSTRING	16	SRWTQE	Timer Queue Element
360	(168)	DBL WORD	8	(0)	Alignment
360	(168)	X'18'	0	SFRPCEWL	"*-PCEWORK" LENGTH OF SCHED. SERVICE WORK AREA

Table 197. Cross Reference for \$SFRWORK

Name	Offset	Hex	Tag
PCE	0		
SFRPCEWL	168		18
SRWABEND	156		
SRWFLG1	150		
SRWLIMIT	156		3
SRWREQCT	154		
SRWRSV1	151		
SRWTQE	158		
SRW1ACTV	150		80
SRW1RCVY	150		40
SRW1SNXT	150		20



## \$SFSWORK information

### \$SFSWORK heading information

<b>Common name:</b>	- HASP Scheduler Facility Service SSI work area dsect.
<b>Macro ID:</b>	\$SFSWORK
<b>DSECT name:</b>	SFSWORK
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'SFSW' Offset: SSWID-SFSWORK Length: 4
<b>Storage attributes:</b>	Subpool: 229 Key: 1 Residency: Virtual and Real storage are anywhere (above or below 16M) in the User address space.
<b>Size:</b>	See SSWWLEN
<b>Created by:</b>	Scheduler Services SSI
<b>Pointed to by:</b>	N/A
<b>Serialization:</b>	None
<b>Function:</b>	This DSECT provides the work area required by the JES2 Scheduler Facility Service SSI.

### \$SFSWORK mapping

Table 198. Structure SFSWORK

Offset Dec	Offset Hex	Type	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.
Area of block addresses used by the routine					
8	(8)	ADDRESS	4	SSWTRE	Addr of SSI TRE
12	(C)	ADDRESS	4	SSWSFRB	Addr of SFRB
16	(10)	ADDRESS	4	SSWIOT	Addr of IOT
Storage needed for token extract					
20	(14)	ADDRESS	4	SSWWAVE	Addr of the WAVE
24	(18)	ADDRESS	4	SSWTOKN	Addr of the User Token
Parameter input for SSI 70					
28	(1C)	ADDRESS	4	SSWSOB70	Addr of SSOB for SSI 70
Process byte for various processing paths					
32	(20)	BITSTRING	1	SSWFLG1	Flag byte 1 -Indicators
	.1.. ....			SSW1EXIT	"B'01000000'" Exit given control



Table 198. Structure SFSWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Condition byte used to show errors in processing					
33	(21)	BITSTRING	1	SSWFLG2	Flag byte 2 -Error flags
		1... ....		SSW2PCED	"B'10000000" PCE is disabled
		.1.. ....		SSW2JESD	"B'01000000" JES is down
		..1. ....		SSW2NOXT	"B'00100000" No Extension exists
		...1 ....		SSW2EXTE	"B'00010000" Error in extension
		.... 1...		SSW2NOAU	"B'00001000" Token Extract error
		.... .1..		SSW2INVF	"B'00000100" Invalid function request
		.... ..1.		SSW2INVI	"B'00000010" Invalid input to function
		.... ...1		SSW2NOST	"B'00000001" No storage indicator
Response byte from Exit					
34	(22)	BITSTRING	1	SSWXPLR	
		1... ....		SSWXCAN	"B'10000000" Exit cancel request
		.1.. ....		SSWXSRC	"B'01000000" Exit supplied RC/reas codes
		1111 1111		SSWANY	"X'FF" Test for any bits on
Other goodies					
35	(23)	BITSTRING	1	SSWCKEY	SSI callers key, used post-exit 45 in case exit changed X045CKEY
36	(24)	BITSTRING	1	SSWJTYPE	Job type
37	(25)	BITSTRING	1		Reserved
38	(26)	SIGNED	2	SSWERC	Processing reason code
40	(28)	SIGNED	4	SSWRC	Processing return code
44	(2C)	SIGNED	4	SSWJBNUM	Converted job number
48	(30)	BITSTRING	28	SSWIINFO	Info block for CPOOL QCELL
76	(4C)	BITSTRING	80	SSWDSTKN	Data set token
156	(9C)	BITSTRING	1	SSWJOTKN	JOE token
Copies of fields from the SS0B extension (IAZSSSF). These are needed so that we can access data in user key storage that was passed by the caller. Note that some IAZSSSF fields are copied directly into the \$XPL instead of appearing here, to reduce duplication of data.					
236	(EC)	SIGNED	4	(0)	Word align
236	(EC)	CHARACTER	4	SSWEID	Eyecatcher
240	(F0)	BITSTRING	1	SSWVER	Version
241	(F1)	BITSTRING	1	SSWREQF	Function request number
242	(F2)	SIGNED	2	SSWMREA	Error reason code
244	(F4)	SIGNED	2	SSWLEN	SSSF length
246	(F6)	SIGNED	2		Reserved
248	(F8)	ADDRESS	4	SSWMDAD	Addr of output descriptor Modify list - SWBTU format This points to SSI caller key storage.



Table 198. Structure SFSWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
252	(FC)	ADDRESS	4	SSWERAD	Addr of output descriptor Erase list in TU format This points to SSI caller key storage.
256	(100)	ADDRESS	4	SSWIJTKN	Address of JOE token provided by SSI 80
260	(104)	ADDRESS	4	SSWIDTKN	Address of dataset token provided by SSI 80
264	(108)	ADDRESS	4	SSWIFSWU	Address of SWBTU buffer
268	(10C)	ADDRESS	4	SSWIFSWT	Address of SWB token
272	(110)	SIGNED	4	SSWIWRTN	Result of merge (rtn code)
276	(114)	SIGNED	4	SSWIWRSN	Merge Reason code
280	(118)	BITSTRING	1	SSWIFLG1	Input flag byte
281	(119)	BITSTRING	1	SSWIRFLG	Returned flag byte
282	(11A)	BITSTRING	86	SSWTKMAP	Token area for tokenmap
368	(170)	DBL WORD	8	(0)	Alignment
\$XPL for exit 45 is here.					
368	(170)	BITSTRING	88	SSW45XPL	XPL for exit 45
456	(1C8)	DBL WORD	8	(0)	Alignment
456	(1C8)	X'1C8'	0	SSWLEN	"*-SFSWORK" Length of SSWORK storage

Table 199. Cross Reference for \$SFSWORK

Name	Offset	Hex Tag
SFSWORK	0	
SSWANY	22	FF
SSWCKEY	23	
SSWDSTKN	4C	
SSWEID	EC	
SSWERAD	FC	
SSWERCD	26	
SSWFLG1	20	
SSWFLG2	21	
SSWID	0	
SSWIDTKN	104	
SSWIFLG1	118	
SSWIFSWT	10C	
SSWIFSWU	108	
SSWIINFO	30	
SSWIJTKN	100	
SSWIOT	10	
SSWIRFLG	119	
SSWIWRSN	114	
SSWIWRTN	110	



Table 199. Cross Reference for \$SFSWORK (continued)

Name	Offset	Hex Tag
SSWJBNUM	2C	
SSWJOTKN	9C	
SSWJTYPE	24	
SSWLEN	F4	
SSWMDAD	F8	
SSWMREA	F2	
SSWRC	28	
SSWREQF	F1	
SSWSFRB	C	
SSWSOB70	1C	
SSWTKMAP	11A	
SSWTOKN	18	
SSWTOTL	4	
SSWTRE	8	
SSWVER	F0	
SSWWAVE	14	
SSWWLEN	1C8	1C8
SSWXCAN	22	80
SSWXPLR	22	
SSWXSRC	22	40
SSW1EXIT	20	40
SSW2EXTE	21	10
SSW2INVF	21	4
SSW2INVI	21	2
SSW2JESD	21	40
SSW2NOAU	21	8
SSW2NOST	21	1
SSW2NOXT	21	20
SSW2PCED	21	80
SSW45XPL	170	

## \$SIG information

### \$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 mapping

Table 200. Structure SIG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SIG	
0	(0)	BITSTRING	1	SIGFLAG1	Flags
		1... ....		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

## \$SJB information

### \$SJB programming interface information

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

- SJBCSCB
- SJBOCT
- SJBPIT
- SJBQUEUE
- SJBSTAC

### \$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 or 230  
Key: 1  
Residency: Virtual and real storage are anywhere (above or below 16M) in common storage or private storage (in the case of internal readers and NJE/TCP devices)

**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).
- 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 HSUSJB field of the \$HSU data area points to the SJB during a 'HOCSETUP' service routine call for a subsystem dataset.
- The EMSSJB field of the \$DTEEOM data area
- The CCTEOMJT field of the \$HCCT
- The JRWSJB field of the \$JRW data area for internal readers and NJE/TCP job receivers (private storage SJB)
- The SRWSJB field of the \$SRW data area for NJE/TCP SYSOUT receiver (private storage SJB)
- The JTWSJB field of the \$JTW data area for NJE/TCP job transmitter (private storage SJB)
- The STWSJB field of the \$STW data area for NJE/TCP SYSOUT transmitter (private storage SJB)
- The RIDSJB field of the \$IRWD data area for internal readers (private storage SJB)



**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 dsct 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 SJBECS 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 mapping

Table 201. Structure SJB

Offset Dec	Offset Hex	Type	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'6'	0	SJBCURVN	"6" Current version number
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
6	(6)	BITSTRING	1	SJBFLG1	FIRST FLAG BYTE ---
		1... ....		SJB1PI	"X'80'" Stop AND drain the initiator
		.1.. ....		SJB1SJID	"X'40'" SELECT JOB BY ID - SJBJOBID
		..1. ....		SJB1CRAL	"X'20'" BROWSE CROSS-ALLOCATION SJB
		.... 1...		SJB1JBIN	"X'08'" Job is in input phase
		.... .1..		SJB1EJOB	"X'04'" HASP-RESTART JOB (\$E JOB)
		.... ..1.		SJB1SWBU	"X'02'" Update the OUTPUT SWB
		.... ...1		SJB1WIN	"X'01'" WLM managed initiator
7	(7)	BITSTRING	1	SJBFLG2	SECOND FLAG BYTE ---
		1... ....		SJB2PNIT	"X'80'" STOP THE INITIATOR
		.1.. ....		SJB2EJST	"X'40'" \$EJOB,STEP was processed
		..1. ....		SJB2EOM	"X'20'" END-OF-MEMORY DETECTED
		...1 ....		SJB2CNCL	"X'10'" CANCEL AFTER SWA CREATE
		.... 1...		SJB2CONV	"X'08'" SJB CREATED FOR CONVERTER
		.... .1..		SJB2HOLD	"X'04'" HOLD JOB AFTER RE-QUEUE
		.... ..1.		SJB2JNL	"X'02'" JOB IS JOURNALED
		.... ...1		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	SJBKEY	HDBDSKEY FOR THIS JOB
36	(24)	ADDRESS	4	SJBCT	ADDRESS OF JCT FOR JOB
40	(28)	BITSTRING	6	SJBCTTK	JCT TRACK ADDRESS (MQTR)
46	(2E)	BITSTRING	2		Reserved
<p>SJBTCBP points to the "owning" TCB for this SJB.            For normal SJBs, this is the TCB was running when            \$\$SJBINIT was invoked. Since normal SJBs are            created during a job select call, this is generally            the one above the job step task.            For a started task, this is the task running            IEESB605.            For a batch job, this is the batch initiator            IEFIIC.            For request job id this is the task that made the            request (SYSLOG is IEEMB803 task).            For a cross system SJB (such a spool data set            browse) this is the TCB from the active JSCB when            the SJB was created (when the allocate was done).            For private storage SJBs (converter SJBs) this is            the task that created the SJB.</p>					
48	(30)	ADDRESS	4	SJBTCBP	ADDRESS OF INIT OR STC TCB
52	(34)	BITSTRING	16	SJBTCBT	TCB token for INIT or STC



Table 201. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
68	(44)	SIGNED	4	SJBJQOFF	OFFSET OF JQE WITHIN JOB QUEUE
72	(48)	CHARACTER	4	SJBSSNM	SUBSYSTEM ID OF OWNER
76	(4C)	ADDRESS	4	SJBIOT	ADR OF FIRST REGULAR IOT
80	(50)	ADDRESS	4	SJBSPLOT	ADR OF FIRST SPIN IOT
84	(54)	ADDRESS	4	SJBOCT	ADR OF OUTPUT CONTROL TABLE
88	(58)	ADDRESS	4	SJBSJPTR	ADR OF SJF PARAMETER LIST
92	(5C)	ADDRESS	4	SJBWBUFF	ADR OF SJF SWB BUFFER
96	(60)	ADDRESS	4	SJBSECB(0)	STOP-ECB ADR FOR CREATED-ID JOB
96	(60)	ADDRESS	4	SJBPIIT	ADDRESS OF PIT IN HASP
100	(64)	ADDRESS	4	SJBASCBP	ASCB address
SJBCKID IS USED BEFORE EXECUTION ONLY SJBSTQE IS USED DURING EXECUTION					
104	(68)	SIGNED	4	SJBCKID	EXECUTION PCE CKPT TOKEN
108	(6C)	BITSTRING	1	SJBSTQE	EXECUTION TIMER QUEUE ELEMENT
THE ESTIMATED COUNT FIELDS MUST BE KEPT TOGETHER AND ARE MAPPED BY THE EST DSECT GENERATED BY THE \$EST MACRO					
120	(78)	SIGNED	4	SJBTIMX(0)	---+ Time excession fields
120	(78)	SIGNED	4	SJBTMINT	Est time message interval
124	(7C)	BITSTRING	1	SJBTIMOP	Execution time option
125	(7D)	BITSTRING	3		Reserved (part of \$EST)
128	(80)	SIGNED	4	SJBXSTIM	---+ Time estimate excession amnt
END OF ESTIMATED COUNT FIELDS					
132	(84)	SIGNED	4	SJBEOMCC	EOM comp code (ASCBMCC)
136	(88)	SIGNED	4	SJBFLGEF(0)	-----+ SJBFLGE fullword for CS
136	(88)	BITSTRING	3		Reserved
139	(8B)	BITSTRING	1	SJBFLGE	\$C JQ processing flags
	1... ....			SJBEJSAC	"B'10000000"   Job select active
	.1.. ....			SJBEJSCN	"B'01000000"   \$C in progress for job
	..1. ....			SJBEJSDM	"B'00100000"   \$C requested a dump
	...1 ....			SJBEVICT	"B'00010000"   Evict job at next step
	.... 1...			SJBEVICH	"B'00001000" ---+ Hold job after evicting
140	(8C)	SIGNED	4	SJBJBSEL	STCK job given to job select
144	(90)	BITSTRING	4	SJBMAXRC(0)	Completion information See JQXMAXCC for values
144	(90)	BITSTRING	1	SJBMXIND	Completion type indicator
145	(91)	BITSTRING	3	SJBMAXCC	Completion/ABEND code info
148	(94)	ADDRESS	4	SJBCSCB	ADDRESS OF CSCB
152	(98)	BITSTRING	12	SJBECBL(0)	ECB list for WAIT
152	(98)	ADDRESS	4	SJBECBA	Pointer to SJB's ECB
156	(9C)	ADDRESS	4	SJBECBS	Pointer to STOP INIT ECB
160	(A0)	ADDRESS	4	SJBECBW	Ptr to WLM STOP INIT ECB
	1... ....			SJBEEND	"X'80'" To initialize end of list



Table 201. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
164	(A4)	BITSTRING	4		Reserved
168	(A8)	DBL WORD	8	(0)	Insure that SJBASCBA is on doubleword boundary for CDS
168	(A8)	BITSTRING	16	SJBXMPL(0)	\$XMPPOST parameter list
168	(A8)	ADDRESS	4	SJBERRET	Pointer to error return
172	(AC)	ADDRESS	4	SJBECBP	POINTER TO SJB'S ECB
During end of memory, SJBASCBA and SJBSASCB will be HASP's ASCB (so that any POSTs will be directed to the JES2 EOM subtask). SJBASID will remain unchanged. SJBASCBP remains as a pointer to the original ASCB.					
176	(B0)	ADDRESS	4	SJBASCBA	ASCB address of AS to post
180	(B4)	ADDRESS	4	SJBECB	ECB for SSI code and JES2
184	(B8)	DBL WORD	8	(0)	Ensure that SJBSASCB is on doubleword boundary for CDS
184	(B8)	BITSTRING	16	SJBSXMPL(0)	\$XMPPOST parameter list
184	(B8)	ADDRESS	4	SJBSERRE	Pointer to error return
188	(BC)	ADDRESS	4	SJBSECBP	Pointer to SJBs ECB
192	(C0)	ADDRESS	4	SJBSASCB	Pointer to related ASCB
196	(C4)	ADDRESS	4	SJBSECBS	ECB for SSI code and JES2
200	(C8)	CHARACTER	4	SJBPATID	EBCDIC init ID (PITPATID)
204	(CC)	BITSTRING	1	SJBPRIO	HASP EXECUTION SELECTION PRTY
205	(CD)	SIGNED	3	SJBFAMILY	Highest family ID used by MOCA IOTs
208	(D0)	SIGNED	2	SJBXQFN1	HASPPXEQ FUNCTION INDICATOR
210	(D2)	BITSTRING	1	SJBFLG3	TERMINATION FLAG ONE ---
		1... ....		SJB3CLS	"X'80'" CLOSE ALL SUBSYSTEM DATA SETS
		.1.. ....		SJB3FSDB	"X'40'" FREE ALL SDBS
		..1. ....		SJB3TERM	"X'20'" TERMINATE THE JOB
		...1 ....		SJB3PPOU	"X'10'" PURGE PARTIAL OUTPUT
		.... .1..		SJB3CKPT	"X'04'" WRITE IOTS, JCT
		.... ..1.		SJB3FIOT	"X'02'" FREE ALL IOTS
		.... ...1		SJB3FJCT	"X'01'" FREE JCT
211	(D3)	BITSTRING	1	SJBFLG4	TERMINATION FLAG TWO ---
		1... ....		SJB4MEND	"X'80'" MSG 'ENDED'
		.1.. ....		SJB4MTRM	"X'40'" MSG 'TERMINATED'
		..1. ....		SJB4MREQ	"X'20'" MSG 'RE-ENQUEUED'
		...1 ....		SJB4MREX	"X'10'" MSG 'QUEUED FOR RE-EXECUTION'
		.... 1...		SJB4FSJB	"X'08'" FREE THE SJB
		.... .1..		SJB4MRQH	"X'04'" MSG 'RE-ENQUEUED AND HELD'
		.... ..1.		SJB40CAN	"X'02'" Operator cancelled this SJB
		.... ...1		SJB4TERM	"X'01'" BATCH JOB HAS TERMINATED SJB4TERM DIRECTLY INFLUENCES THE CREATION AND DELETION OF THE JSAB
212	(D4)	ADDRESS	4	SJBQUEUE	ADDRESS OF CCTJ QUEUE HEADER
216	(D8)	ADDRESS	4	SJBXQCHN	HASPPXEQ CHAINING WORD
Control information for EOM processing					
220	(DC)	BITSTRING	8	SJBEOMCH(0)	<-----+ EOM chaining fields



Table 201. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
220	(DC)	ADDRESS	4	SJBEOMN	Addr next SJB on EOM queue
224	(E0)	ADDRESS	4	SJBEOMP	<-----+ Addr prior SJB on EOM queue
228	(E4)	ADDRESS	4	SJBEOMPC	PCE processing SJB
232	(E8)	BITSTRING	1	SJBEOMFL	End of memory switches
		1... ....		SJBEOMF1	"B'10000000'" SJB being processed by PCE
		.1.. ....		SJBEOMF2	"B'01000000'" SJB being processed by EOM sub-task
233	(E9)	BITSTRING	3	SJBEOMRS	Reserved for future EOM use
236	(EC)	ADDRESS	4	SJBEOMQ	Addr of Queue head at EOM SSI time
End of EOM data					
240	(F0)	SIGNED	2	SJBINTCT	COUNT OF OPEN INTRDRS
242	(F2)	BITSTRING	1	SJBRSNCD	Reason Job not selectable
Return codes/ reason codes for non selection of job Used for message HASP361 based on return code from \$DMNDJOB routine. Also used for message HASP003 RC(109)					
242	(F2)	X'0'	0	SJBRSN00	"0" No message needed
242	(F2)	X'4'	0	SJBRSN01	"4" Job not found
242	(F2)	X'8'	0	SJBRSN02	"8" System draining
242	(F2)	X'C'	0	SJBRSN03	"12" Job with same name running
242	(F2)	X'10'	0	SJBRSN04	"16" Sched. env. not available
242	(F2)	X'14'	0	SJBRSN05	"20" Independent mode mismatch
242	(F2)	X'18'	0	SJBRSN06	"24" Spools(s) not available
242	(F2)	X'1C'	0	SJBRSN07	"28" Rejected by exit 49
242	(F2)	X'20'	0	SJBRSN08	"32" SECLABEL not available
242	(F2)	X'24'	0	SJBRSN09	"36" No affinity to active sys
242	(F2)	X'28'	0	SJBRSN10	"40" Unexpected WLM response
242	(F2)	X'2C'	0	SJBRSN11	"44" ARM restart pending
242	(F2)	X'30'	0	SJBRSN12	"48" Busy
242	(F2)	X'34'	0	SJBRSN13	"52" Not batch job
242	(F2)	X'38'	0	SJBRSN14	"56" Not on execution queue
242	(F2)	X'3C'	0	SJBRSN15	"60" No JES2 that can select
242	(F2)	X'40'	0	SJBRSN16	"64" Jobclass no affinity to active member
242	(F2)	X'44'	0	SJBRSN17	"68" Job requires a higher z/OS level
243	(F3)	BITSTRING	1	SJBFLGF	More job flags:
		1... ....		SJBFPRIV	"B'10000000'" Job is privileged
		.1.. ....		SJBFRSSN	"B'01000000'" Restore subsystem name
244	(F4)	CHARACTER	4	SJB0SSNM	Original subsystem name
248	(F8)	DBL WORD	8	SJBLOCKH(0)	SJB LOCKING DOUBLEWORD
248	(F8)	ADDRESS	4	SJBTCB	LOCK-HOLDING TCB ADDRESS
252	(FC)	ADDRESS	4	SJBNEXTL	0 - SJB IS UNLOCKED - - SJB LOCKED, NO WAIT CHAIN + - SJB LOCKED, ADR OF WAITER
256	(100)	ADDRESS	4	SJBTINA	Address of TINA



Table 201. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
260	(104)	SIGNED	4	SJBTINAA	ALET of TINA (zero only if SJB for converter)
264	(108)	ADDRESS	4	SJBPS0	Process Sysout Block
268	(10C)	SIGNED	4	SJBPS0A	Process Sysout Block ALET
272	(110)	ADDRESS	4	SJBSTAC	Addr of Status/Cancel Block
276	(114)	SIGNED	4	SJBSTACA	Status/Cancel Block ALET
280	(118)	CHARACTER	1		Reserved
281	(119)	BITSTRING	1	SJBLKFG	SERIALIZATION FLAG
		1... ....		SJBFIRST	"X'80'" First CCTJPCLS request for an initiator; Only meaningful in batch job SJBs.
EQU X'40' Reserved for future use					
		..1. ....		SJBPUISP	"X'20'" Job may have unprocessed SPIN output
		...1 ....		SJBTKCEL	"X'10'" SYSOUT MUST BE TRACKCELLED
		.... 1...		SJBTPST	"X'08'" SJB HAS BEEN POSTED TO TERM
		.... ..1.		SJBLCKPT	"X'02'" PARTIALLY SELECTED \$SJB
		.... ...1		SJBMSWBP	"X'01'" NEW Pddb FOR MULTI SWBS
282	(11A)	SIGNED	2	SJBASID	USERS ASID
284	(11C)	BITSTRING	1	SJBFLG5	JOB RELATED FLAG BYTE
THE FOLLOWING JOB TYPE FLAGS ARE IDENTICAL WITH THE JOB TYPE FLAGS IN THE JQE (I.E. JQE3JOB, JQE3STC AND JQE3TSU)					
		.... ..11		SJB5JOB	"B'00000011'" BATCH JOB (WHEN BITS ZERO)
		.... ...1		SJB5STC	"B'00000001'" FLAG FOR THE STC JOB
		.... ..1.		SJB5TSU	"B'00000010'" FLAG FOR THE TSU JOB
		.... .1..		SJB5REST	"B'00000100'" ALLOW \$EJ RESTART TO XEQ BIT ON INDICATES RESTART=Y
		.... 1...		SJB5SWAC	"B'00001000'" SWA CREATED
		1... ....		SJB5JL	"B'10000000'" JESDS processing Job log
		.1.. ....		SJB5JCI	"B'01000000'" JESDS processing JCL images
		..1. ....		SJB5MSG	"B'00100000'" JESDS processing SYSMMSG
285	(11D)	BITSTRING	1	SJBFLG6	FLAG BYTE 6
285	(11D)	X'1F'	0	SJB6NODA	"\$ODANYWP" NORMAL OUTDISP FROM CAT
286	(11E)	BITSTRING	1	SJBFLG7	FLAG BYTE 7
286	(11E)	X'1F'	0	SJB7AODA	"\$ODANYWP" ABNORMAL OUTDISP FROM CAT
287	(11F)	BITSTRING	1	SJBFLGC	Flag Byte SERIALIZATION: NONE
		1... ....		SJBCARMI	"B'10000000'" Notify ARM of job term
		.1.. ....		SJBCHASP	"B'01000000'" EOM processing required in HASP address space
		..1. ....		SJBCCANJ	"B'00100000'" Operator MVS CANCELed job
		...1 ....		SJBCFJST	"B'00010000'" First batch job select
		.... 1...		SJBCWTHT	"B'00001000'" Partially selected job is the WITH= target



Table 201. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		SJBCJBGR	"B'00000100" Job is a logging job for JOBGROUP ( mutually exclusive with SJBCRJGR)
		.... ..1.		SJBCRJGR	"B'0000010" This job is registered to a jobgroup in SJBGRIX ( mutually exclusive with JQX3JBGR ).
		.... ...1		SJBCCONC	"B'0000001" Job within concurrent set
288	(120)	BITSTRING	1	SJBSBCNT	Number of data sets opened for spool browse (count never decremented)
289	(121)	BITSTRING	1	SJBFLGD	Flags Serialized via compare and swap
		1... ....		SJBDSAPI	"B'10000000" Job has at least 1 SAPID
		.1.. ....		SJBDJWEL	"B'01000000" Appl hold JWEL created
		..1. ....		SJBDUNSP	"B'00100000" IOT(s) must be unspun
		.... 1...		SJBDJLSP	"B'00001000" JESLOG spin deferred waiting for SJB lock
290	(122)	SIGNED	2	SJBHJE00	Footprint for progress through HASCJBST HJE000
292	(124)	SIGNED	4	SJBJBNUM	Binary job number
296	(128)	CHARACTER	8	SJBJOBID	JOB IDENTIFIER - EBCDIC, NUMERIC
304	(130)	CHARACTER	8	SJBJOBNM	JOBNAME FROM JOB CARD
312	(138)	CHARACTER	8	SJBUSRID	USERID FROM JOB CARD
320	(140)	BITSTRING	8	SJBASCBT	Address space token
328	(148)	CHARACTER	8	SJBSECLB	SECLABEL for address space (SDSF use)
336	(150)	CHARACTER	8	SJBJOBCL	JES2 8 character job class
344	(158)	BITSTRING	1	SJBFLG8	Second excession limit flgs
		1... ....		SJB8LJLC	"X'80" Lines JCL Limit is Cancel
		.1.. ....		SJB8LJLD	"X'40" Lines JCL Limit is Dump
		..1. ....		SJB8LJLW	"X'20" Lines JCL Limit is Warning
EQU X'10' RESERVED for future use					
		.... 1...		SJB8PJLC	"X'08" Pages JCL Limit is Cancel
		.... .1..		SJB8PJLD	"X'04" Pages JCL Limit is Dump
		.... ..1.		SJB8PJLW	"X'02" Pages JCL Limit is Warning
EQU X'01' RESERVED for future use					
345	(159)	BITSTRING	1	SJBFLG9	First excession limit flags
		1... ....		SJB9BJLC	"X'80" Bytes JCL Limit is Cancel
		.1.. ....		SJB9BJLD	"X'40" Bytes JCL Limit is Dump
		..1. ....		SJB9BJLW	"X'20" Bytes JCL Limit is Warning
EQU X'10' RESERVED for future use					
		.... 1...		SJB9CJLC	"X'08" Cards JCL Limit is Cancel
		.... .1..		SJB9CJLD	"X'04" Cards JCL Limit is Dump
		.... ..1.		SJB9CJLW	"X'02" Cards JCL Limit is Warning
EQU X'01' RESERVED for future use					
346	(15A)	BITSTRING	1	SJBFLGA	APPC flag byte



Table 201. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		SJBAFALL	"X'80'" First allocation processing
		.1.. ..		SJBATP	"X'40'" Transaction Program
		..1. ....		SJBAPROT	"X'20'" Job is Protected
		...1 ....		SJBASPOT	"X'10'" Spin output produced
		.... 1...		SJBASTIN	"X'08'" STOP initiator
		.... .1..		SJBATI	"X'04'" Transaction Initiator
		.... ..1.		SJBAWSTP	"X'02'" WLM posted initiator
347	(15B)	BITSTRING	1	SJBFLGB	Yet another flag byte
		1... ..		SJBBRJI	"X'80'" Request job id flag
		.1.. ..		SJBBSYSL	"X'40'" SYSLOG flag
		..1. ....		SJBBSYSA	"X'20'" System address space
		...1 ....		SJBBSPIN	"X'10'" Joblog is spinnable
		.... 1...		SJBBOBL	"X'08'" Joblog is to be opened for request jobid caller
		.... .1..		SJBNSPN	"X'04'" Joblog is not spinnable
		.... ..1.		SJBBRJCR	"X'02'" Request job id set Job Correlator in JSAB (SYS_CORR_CURRJOB)
		.... ...1		SJBBEJST	"X'01'" Exit 32 requested job Evict
348	(15C)	SIGNED	4	SJBJGRIX	Index of the jobgroup logging JQE (see SJBCRJGR)
352	(160)	SIGNED	4	SJBJGRKY	Job key of the jobgroup logging JQE (see SJBCRJGR)
356	(164)	BITSTRING	4		Reserved
360	(168)	BITSTRING	16	SJBDQDWK(0)	Quadword work area numero 1
360	(168)	DBL WORD	8	SJBDBLWK	DOUBLEWORD WORKAREA #1
368	(170)	DBL WORD	8	SJBDBLW1	DOUBLEWORD WORKAREA #2
376	(178)	CHARACTER	1	SJBTOKEN	Security token work area
<p>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.</p>					
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)	CHARACTER	8	SJBWSCNO	WLM Init counted srv class
<p>SJBWSCN - Job Select SSI processing field. Contains the service class associated with a batch job executing in a JES2 Initiator. Note: The field SJBWSCN contains transient data and should not be used to supply the service class for a WLM Initiator or the batch job executing in a WLM initiator. Use field SJBWSCNO to obtain the service class that pertains to a WLM Initiator and any batch job it may be executing.</p>					
496	(1F0)	CHARACTER	8	SJBWSCN	WLM Service class name



Table 201. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
SJBASDSE is 0 for jobs that do not have ASDS entry, e.g., jobs during conversion					
504	(1F8)	ADDRESS	8	SJBASDSE	Pointer to ASDS entry
The following fields are used during job selection process to copy counters from checkpointed control blocks to ASDS entry of the job and are not used after that. SJB TGNBR, SJB JONBR					
512	(200)	SIGNED	4	SJB TGNBR	Track groups owned by job
516	(204)	SIGNED	4	SJB JONBR	JOEs groups owned by job
520	(208)	CHARACTER	8	SJB RGRNM	Resource group name
528	(210)	BITSTRING	6	SJB EXSTR	Execution start time (Left 6 byte STCKE)
534	(216)	BITSTRING	6	SJB EXEND	Execution end time (Left 6 byte STCKE)
540	(21C)	BITSTRING	64	SJB DRIX	Related job history DRX
604	(25C)	SIGNED	4	SJB DRXIX	and DRX index
608	(260)	DBL WORD	8	SJB SELTM	Job selection time (STCK)
616	(268)	SIGNED	4	(2)	Reserved for future use
624	(270)	DBL WORD	8	SJB SSIWK(0)	SSI ROUTINE WORK AREA
Job Select SSI processing fields					
624	(270)	BITSTRING	4	SJB WSCTK	WLM Service class token
628	(274)	BITSTRING	1	SJB WFLG1	WLM Flags
	1... ..			SJB W1DMD	"B'10000000'" Demand select initiator
	.1.. ..			SJB W1SCS	"B'01000000'" Service class set via cmd
	..1. ....			SJB W1\$SJ	"B'00100000'" Job started via \$S J cmd
	...1 ....			SJB W1JAC	"B'00010000'" Job counted in WSCJACT
629	(275)	BITSTRING	1	SJB WPRI0	Jobs current priority
630	(276)	BITSTRING	1	SJB WFLG2	Additional job flags
	1... ..			SJB W2AST	"B'10000000'" Job has alternate system symbol table
	.1.. ..			SJB W2IST	"B'01000000'" Job has datasets with symbol substitution
631	(277)	BITSTRING	1	SJB WIMPL	Service class importance: 1 to 5, 1 is highest or 255 - discretionary
632	(278)	BITSTRING	8	SJB WDBJI(0)	Demand job's identifier --+
632	(278)	BITSTRING	4	SJB WDBJN	Job number
636	(27C)	BITSTRING	4	SJB WDBJK	Job key --+
640	(280)	BITSTRING	16	SJB SCENV	WLM Scheduling environment
656	(290)	BITSTRING	4	SJB SRMTK	SRM token (from IWMCLSFY)
660	(294)	BITSTRING	4	SJB ARRIV	Job arrival time
664	(298)	BITSTRING	8	SJB RHL D	Duration job was ineligible for selection due to a hold
672	(2A0)	BITSTRING	8	SJB RRS C	Duration job was ineligible for selection due to unsatisfied resource requirements.
680	(2A8)	BITSTRING	8	SJB RTOC	Duration job was in conversion



Table 201. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
688	(2B0)	CHARACTER	64	SJBSJCOR	Job correlator
Allocation SSI processing fields					
624	(270)	SIGNED	2	SJBINSCT	Dataset instance count
752	(2F0)	DBL WORD	8	(0)	Ensure size fullword mult
752	(2F0)	X'2F0'	0	SJBEND	"*" END OF SJB
752	(2F0)	X'2F0'	0	SJBSize	"*-SJB" SIZE OF SJB CONTROL BLOCK

Table 202. Cross Reference for \$SJB

Name	Offset	Hex	Tag
SJB	0		
SJBAFALL	15A		80
SJBAPROT	15A		20
SJBARRIV	294		
SJBASCBA	B0		
SJBASCBP	64		
SJBASCBT	140		
SJBASDSE	1F8		
SJBASID	11A		
SJBASPOT	15A		10
SJBASTIN	15A		8
SJBATI	15A		4
SJBATP	15A		40
SJBAWSTP	15A		2
SJBBEJST	15B		1
SJBBJOBL	15B		8
SJBBNSPN	15B		4
SJBBRJCR	15B		2
SJBBRJI	15B		80
SJBBSPIN	15B		10
SJBBSYSA	15B		20
SJBBSYSL	15B		40
SJBCARMI	11F		80
SJBCCANJ	11F		20
SJBCCONC	11F		1
SJBCFJST	11F		10
SJBCHASP	11F		40
SJBCJBGR	11F		4
SJBCKID	68		
SJBCRJGR	11F		2



Table 202. Cross Reference for \$SJB (continued)

Name	Offset	Hex Tag
SJBCSCB	94	
SJBCURVN	4	6
SJBCWTH	11F	8
SJBDBLWK	168	
SJBDBLW1	170	
SJBDEBYT	1E0	
SJBDELIN	1C8	
SJBDEPAG	1D8	
SJBDEPUN	1D0	
SJBDJLSP	121	8
SJBDJWEL	121	40
SJBDQDWK	168	
SJBDRIX	21C	
SJBDRXIX	25C	
SJBDSAPI	121	80
SJBDUNSP	121	20
SJBECB	B4	
SJBECBA	98	
SJBECBL	98	
SJBECBP	AC	
SJBECBS	9C	
SJBECBW	A0	
SJBEEND	A0	80
SJBEJSAC	8B	80
SJBEJSCN	8B	40
SJBEJSDM	8B	20
SJBEND	2F0	2F0
SJBEOMCC	84	
SJBEOMCH	DC	
SJBEOMFL	E8	
SJBEOMF1	E8	80
SJBEOMF2	E8	40
SJBEOMN	DC	
SJBEOMP	E0	
SJBEOMPC	E4	
SJBEOMQ	EC	
SJBEOMRS	E9	
SJBERRET	A8	
SJBEVICH	8B	8



Table 202. Cross Reference for \$SJB (continued)

Name	Offset	Hex Tag
SJBEVICT	8B	10
SJBEXEND	216	
SJBEXSTR	210	
SJBFAMILY	CD	
SJBFIRST	119	80
SJBFLGA	15A	
SJBFLGB	15B	
SJBFLGC	11F	
SJBFLGD	121	
SJBFLGE	8B	
SJBFLGEF	88	
SJBFLGF	F3	
SJBFLG1	6	
SJBFLG2	7	
SJBFLG3	D2	
SJBFLG4	D3	
SJBFLG5	11C	
SJBFLG6	11D	
SJBFLG7	11E	
SJBFLG8	158	
SJBFLG9	159	
SJBFPRIV	F3	80
SJBFRSSN	F3	40
SJBHJE00	122	
SJBID	0	
SJBINSCT	270	
SJBINTCT	F0	
SJBIOT	4C	
SJBJBNUM	124	
SJBJBSEL	8C	
SJBJCT	24	
SJBJCTTK	28	
SJBJGRIX	15C	
SJBJGRKY	160	
SJBJKEY	20	
SJBJOBCL	150	
SJBJOBID	128	
SJBJOBNM	130	
SJBJONBR	204	



Table 202. Cross Reference for \$SJB (continued)

Name	Offset	Hex Tag
SJBJQOFF	44	
SJBLCKPT	119	2
SJBLKFG	119	
SJBLOCKH	F8	
SJBMAXCC	91	
SJBMAXRC	90	
SJBMSWBP	119	1
SJBMXIND	90	
SJBNEXTL	FC	
SJBOCT	54	
SJBOSSNM	F4	
SJBPATID	C8	
SJBPIT	60	
SJBPRIO	CC	
SJBPS0	108	
SJBPS0A	10C	
SJBPUFSP	119	20
SJBQUEUE	D4	
SJBRGRNM	208	
SJBRHLD	298	
SJBRRSC	2A0	
SJBRSNCD	F2	
SJBRSN00	F2	0
SJBRSN01	F2	4
SJBRSN02	F2	8
SJBRSN03	F2	C
SJBRSN04	F2	10
SJBRSN05	F2	14
SJBRSN06	F2	18
SJBRSN07	F2	1C
SJBRSN08	F2	20
SJBRSN09	F2	24
SJBRSN10	F2	28
SJBRSN11	F2	2C
SJBRSN12	F2	30
SJBRSN13	F2	34
SJBRSN14	F2	38
SJBRSN15	F2	3C
SJBRSN16	F2	40



Table 202. Cross Reference for \$SJB (continued)

Name	Offset	Hex Tag
SJBRSN17	F2	44
SJBRT0C	2A8	
SJBSASCB	C0	
SJBSBCNT	120	
SJBSCENV	280	
SJBSDB	1C	
SJBSECB	60	
SJBSECBP	BC	
SJBSECBS	C4	
SJBSECLB	148	
SJBSELT M	260	
SJBSERRE	B8	
SJB SIZE	2F0	2F0
SJBSJB	18	
SJBSJC0R	2B0	
SJBSJPTR	58	
SJBSJXB	8	
SJBSPI0T	50	
SJBSRMTK	290	
SJBSSIB	14	
SJBSSIWK	270	
SJBSSNM	48	
SJBSTAC	110	
SJBSTACA	114	
SJBSTQE	6C	
SJB SWBUF	5C	
SJBSXMPL	B8	
SJBTCB	F8	
SJBTCBP	30	
SJBTCBT	34	
SJB TGNBR	200	
SJB TIMOP	7C	
SJB TIMX	78	
SJB TINA	100	
SJB TINAA	104	
SJB TKCEL	119	10
SJB TMINT	78	
SJB TOKEN	178	
SJB TPST	119	8



Table 202. Cross Reference for \$SJB (continued)

Name	Offset	Hex Tag
SJBUSER	10	
SJBUSRID	138	
SJBVRSN	4	
SJBWAVE	C	
SJBWDBJI	278	
SJBWDBJK	27C	
SJBWDBJN	278	
SJBWFLG1	274	
SJBWFLG2	276	
SJBWIMPL	277	
SJBWPRI0	275	
SJBWSCN	1F0	
SJBWSCN0	1E8	
SJBWSCTK	270	
SJBW1\$SJ	274	20
SJBW1DMD	274	80
SJBW1JAC	274	10
SJBW1SCS	274	40
SJBW2AST	276	80
SJBW2IST	276	40
SJBXMPL	A8	
SJBXQCHN	D8	
SJBXQFN1	D0	
SJBXSTIM	80	
SJB1CRAL	6	20
SJB1EJOB	6	4
SJB1JBIN	6	8
SJB1PI	6	80
SJB1SJID	6	40
SJB1SWBU	6	2
SJB1WIN	6	1
SJB2CNCL	7	10
SJB2CONV	7	8
SJB2EJST	7	40
SJB2EOM	7	20
SJB2HOLD	7	4
SJB2INIT	7	1
SJB2JNL	7	2
SJB2PNIT	7	80



Table 202. Cross Reference for \$SJB (continued)

Name	Offset	Hex Tag
SJB3CKPT	D2	4
SJB3CLS	D2	80
SJB3FIOT	D2	2
SJB3FJCT	D2	1
SJB3FSDB	D2	40
SJB3PPOU	D2	10
SJB3TERM	D2	20
SJB4FSJB	D3	8
SJB4MEND	D3	80
SJB4MREQ	D3	20
SJB4MREX	D3	10
SJB4MRQH	D3	4
SJB4MTRM	D3	40
SJB4OCAN	D3	2
SJB4TERM	D3	1
SJB5JCI	11C	40
SJB5JL	11C	80
SJB5JOB	11C	3
SJB5MSG	11C	20
SJB5REST	11C	4
SJB5STC	11C	1
SJB5SWAC	11C	8
SJB5TSU	11C	2
SJB6NODA	11D	1F
SJB7AODA	11E	1F
SJB8LJLC	158	80
SJB8LJLD	158	40
SJB8LJLW	158	20
SJB8PJLC	158	8
SJB8PJLD	158	4
SJB8PJLW	158	2
SJB9BJLC	159	80
SJB9BJLD	159	40
SJB9BJLW	159	20
SJB9CJLC	159	8
SJB9CJLD	159	4
SJB9CJLW	159	2



# \$SJIOB information

## \$SJIOB programming interface information

\$SJIOB is a programming interface.

## \$SJIOB heading information

<b>Common name:</b>	Subsystem Job I/O Buffer
<b>Macro ID:</b>	\$SJIOB
<b>DSECT name:</b>	SJIOB
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	SJIO Offset: SJIOBID-SJIOB Length: L'SJIOBID
<b>Storage attributes:</b>	Subpool: 230 Key: 1 Residency: Virtual - 24 bit storage (contains IOB) Real - 31 bit storage (contains CCW and data buffers)
<b>Size:</b>	See SJIOBSZE
<b>Created by:</b>	SJBINIT/SJIOBINT
<b>Pointed to by:</b>	SJXBPIOB (for permanent SJIOBs) HXBSJIOB (for SIGIO SJIOBs) A register (for temporary SJIOBs)
<b>Serialization:</b>	None
<b>Function:</b>	The \$SJIOB contains the I/O fields needed in the user or subtask environments. It is also used by the \$SIGIO service in the user, subtask and main task environment. The SJIOB exist in two forms defined as permanent and temporary. The permanent SJIOB is pointed to from the SJXB or the HASXB for SIGIO. Whereas, the temporary SJIOB is anchored in a register. The SJIOB contains DCB, DEB, IOB and ECB used by the CBIO and SIGIO routines.

## \$SJIOB mapping

Table 203. Structure SJIOB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SJIOB	
0	(0)	CHARACTER	4	SJIOBID	SJIOB IDENTIFIER
4	(4)	BITSTRING	1	SJIFLAG2	
		1... ..		SJI2TEMP	"B'10000000'" TEMPORARY SJIOB
		.1.. ..		SJI2USE	"B'01000000'" SJIOB in use
		..1. ....		SJI2SIGI	"B'00100000'" SJIOB for \$SIGIO
		...1 ....		SJI2MIGO	"B'00010000'" During spool migration, override mapped volume consideration.



Table 203. Structure SJIOB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		SJI2SIOA	"B'00001000'" STARTIO appendage entered
		.... .1..		SJI2CEAA	"B'00000100'" CE appendage entered
5	(5)	BITSTRING	1	SJIMIGT	DAS transition count
6	(6)	BITSTRING	1	SJICBFG1	CBIO or SIGIO flag 1 copy
7	(7)	BITSTRING	1	SJICBFG2	Copy of CBIO flag 2
8	(8)	ADDRESS	4	SJIOSJXB	ADDRESS OF SJXB
12	(C)	ADDRESS	4	SJIOCBP	\$CBIO CBP address
\$SIGIO in the main task uses the \$SJIOB in the main task. Main task needs an XECB to post the waiting PCE. XECB remaps fields used by \$CBIO.					
16	(10)	DBL WORD	8	SJIMECB(0)	Define an XECB for main task usage (\$SIGIO)
16	(10)	SIGNED	4	SJIECB	ECB whose addr is in IOB
20	(14)	SIGNED	4	SJIJBMSK	Exit job mask
24	(18)	DBL WORD	8	SJIMQTR	MQTR for I/O (00MT TTTR)
32	(20)	SIGNED	4	SJIKEY	Job key for data area
36	(24)	CHARACTER	4	SJIVERID	Control block verify id
40	(28)	DBL WORD	8	(0)	Alignment
40	(28)	BITSTRING	0	SJIIOB(0)	IOB FOR JOB CONTROL BLOCKS
40	(28)	BITSTRING	1	SJIIFLG1	IOB - FLAG BYTE
41	(29)	BITSTRING	1	SJIIFLG2	IOB - Flag byte 2
42	(2A)	BITSTRING	1	SJIISNS0	IOB - FIRST SENSE BYTE
43	(2B)	BITSTRING	1	SJIISNS1	IOB - SECOND SENSE BYTE
44	(2C)	ADDRESS	4	SJIIECB(0)	IOB - EVENT CNTRL BLK ADR
44	(2C)	BITSTRING	1	SJIICMP	IOB - COMPLETION CODE
45	(2D)	ADDRESS	3	SJIIECBP	IOB - ECB POINTER (SJBECP)
48	(30)	BITSTRING	1	SJIIFLG3	IOB - Flag byte 3
49	(31)	BITSTRING	7	SJIICSW(0)	IOB - CHANNEL STATUS WORD
49	(31)	ADDRESS	3	SJIICSWA	IOB - CSW ADDRESS PORTION
52	(34)	BITSTRING	1	SJIIST0	IOB - FIRST STATUS BYTE
53	(35)	BITSTRING	1	SJIIST1	IOB - SECOND STATUS BYTE
54	(36)	SIGNED	2	SJIILEN	IOB - RESIDUAL LENGTH
56	(38)	BITSTRING	1	SJIISIO(0)	IOB - SIO condition code
56	(38)	ADDRESS	4	SJIIST	IOB - Channel program addr
60	(3C)	BITSTRING	1	SJIIFLG4(0)	IOB - Flag byte
60	(3C)	ADDRESS	4	SJIIDCB	IOB - DCB ADDRESS
64	(40)	ADDRESS	4	SJIIRS	IOB - RESTART CHAN PGM ADR
68	(44)	ADDRESS	4		
72	(48)	DBL WORD	8	SJIIFDAD	IOB - FULL DISK ADDRESS Form - MBBCcchR Note: this is absolute address format
72	(48)	X'49'	0	SJIIBCC	"SJIIFDAD+1,7" IOB - BBCCcchR part
80	(50)	SIGNED	4	(0)	Ensure word alignment
80	(50)	BITSTRING	48	SJIIOBE	Reserve space for IOB extension
128	(80)	SIGNED	4	(0)	Ensure word alignment



Table 203. Structure SJIOB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
128	(80)	BITSTRING	48	SJIIEDB	Reserve space for I/O error data block
136	(88)	SIGNED	4	SJIDCB(0)	Start of DCB
176	(B0)	BITSTRING	1		Space for DCB foundation
176	(B0)	X'B4'	0	SJIDEBAD	"SJIDCB+(DCBDEBAD-IHADCB),L'DCBDEBAD" Ptr from DCB to DEB
SJIDASID has index of DAS which is a target of JES2 I/O request (M in MTTR/MQTR). SJIRDASX has index of DAS which is a target of actual channel program. They could be different. e.g. for a mapped volume or during some migration phases.					
188	(BC)	BITSTRING	1	SJIDASID	DAS index
189	(BD)	BITSTRING	1	SJIRDASX	Index of real DAS
190	(BE)	BITSTRING	2		Reserved
192	(C0)	BITSTRING	1	SJIDEB	Space for DEB
192	(C0)	X'DC'	0	SJIAPPAD	"SJIDEB+(DEBAPPAD- DEBBASIC),L'DEBAPPAD" Appendage vector addr
192	(C0)	X'D8'	0	SJIDCBAD	"SJIDEB+(DEBDCBAD- DEBBASIC),L'DEBDCBAD" Ptr from DEB to DCB
224	(E0)	BITSTRING	16	SJIDEBXT	Space for one DA DEB extent
240	(F0)		8	SJICCW1	SET SECTOR/NO-OP
248	(F8)		8	SJICCW2	SEARCH ID EQUAL
256	(100)		8	SJICCW3	TIC *-8
264	(108)		8	SJICCW4	WRITE/READ DATA
IDAW'S - CURRENTLY SUPPORT UP TO 4K CONTROL BLOCK SIZE					
272	(110)	ADDRESS	4	SJIIDAW1	ADDRESS OF CNTRL BLK BUFFER
276	(114)	ADDRESS	4	SJIIDAW2	2K PAGE BNDRY GT THE BUFR ADDR
280	(118)	ADDRESS	4	SJIIDAW3	NEXT 2K PAGE BOUNDARY
284	(11C)	SIGNED	4		Reserved
Provide data area for signature record I/O					
272	(110)	BITSTRING	8	SJISIG	Data read/written here
280	(118)	ADDRESS	4	SJISGBUF	SIGIO input buffer address
284	(11C)	BITSTRING	1	SJISGRPS	RPS value for CKD CCWs
285	(11D)	BITSTRING	1	SJISGFG1	SIGIO output flags
		1... ....		SJISG1VE	"B'10000000" Validation error
		.1... ....		SJISG1RD	"B'01000000" Read request
286	(11E)	BITSTRING	2		Reserved
288	(120)	DBL WORD	8	(0)	Ensure alignment
288	(120)	X'120'	0	SJIOBSZE	"*-SJIOB" Size of SJIOB

Table 204. Cross Reference for \$SJIOB

Name	Offset	Hex Tag
SJIAPPAD	C0	DC
SJICBFG1	6	



Table 204. Cross Reference for \$SJIOB (continued)

Name	Offset	Hex Tag
SJICBFG2	7	
SJICCW1	F0	
SJICCW2	F8	
SJICCW3	100	
SJICCW4	108	
SJIDASID	BC	
SJIDCB	88	
SJIDCBAD	C0	D8
SJIDEB	C0	
SJIDEBAD	B0	B4
SJIDEBXT	E0	
SJIECB	10	
SJIFLAG2	4	
SJIIBBCC	48	49
SJIICMP	2C	
SJIICSW	31	
SJIICSWA	31	
SJIIDAW1	110	
SJIIDAW2	114	
SJIIDAW3	118	
SJIIDCB	3C	
SJIIECB	2C	
SJIIECBP	2D	
SJIIEDB	80	
SJIIFDAD	48	
SJIIFLG1	28	
SJIIFLG2	29	
SJIIFLG3	30	
SJIIFLG4	3C	
SJIILEN	36	
SJII0B	28	
SJII0BE	50	
SJIIRS	40	
SJIISIO	38	
SJIISNS0	2A	
SJIISNS1	2B	
SJIIST	38	
SJIIST0	34	
SJIIST1	35	



Table 204. Cross Reference for \$SJIOB (continued)

Name	Offset	Hex Tag
SJIJBMSK	14	
SJIKEY	20	
SJIMECB	10	
SJIMIGT	5	
SJIMQTR	18	
SJIOB	0	
SJIOBID	0	
SJIOBSZE	120	120
SJIOCBP	C	
SJIOSJXB	8	
SJIRDASX	BD	
SJISGBUF	118	
SJISGFG1	11D	
SJISGRPS	11C	
SJISG1RD	11D	40
SJISG1VE	11D	80
SJISIG	110	
SJIVERID	24	
SJI2CEAA	4	4
SJI2MIGO	4	10
SJI2SIGI	4	20
SJI2SIOA	4	8
SJI2TEMP	4	80
SJI2USE	4	40

## \$SJXB information

### \$SJXB programming interface information

\$SJXB is a programming interface.

### \$SJXB heading information

**Common name:** Subsystem Job Block Extension  
**Macro ID:** \$SJXB  
**DSECT name:** SJXB  
**Owning component:** JES2 (SC1BH)  
**Eye-catcher ID:** 'SJXB'  
 Offset: SJXBID-SJXB  
 Length: 4



<b>Storage attributes:</b>	Subpool: 230 Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M) in the address space where the job that the \$SJXB represents is active.
<b>Size:</b>	See SJXBSize
<b>Created by:</b>	Created by the \$SJBINIT service when the job enters execution.
<b>Pointed to by:</b>	SJBSJXB field of the \$SJB data area
<b>Serialization:</b>	Serialized via \$SJBLOCK service.
<b>Function:</b>	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 SJIOB 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.

## \$SJXB mapping

Table 205. Structure SJXB

Offset Dec	Offset Hex	Type	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)	ADDRESS	4	SJXBDEBS	Address of SJXB DEB area
12	(C)	ADDRESS	4	SJXBPIOB	ADDRESS OF SJIOB
16	(10)	ADDRESS	4	SJXGGST	ADDRESS OF GROUPING STRINGS OBJECT
THE FIELDS FROM SJXCLBEG TO SJXCLEND ARE CLEARED OUT IN HASCJBST EVERYTIME THE SJXB IS REUSED FOR ANOTHER JOB.					
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	SJXB SIOT	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
		1... ....		SJX1PLHD	"B'10000000'" SJXRIOT POINTS TO PLACEHOLDER
		.1.. ....		SJX1JPGM	"B'01000000'" Job has page mode records
		..1. ....		SJX1JSDS	"B'00100000'" S722 CANCEL is needed due to excession
		...1 ....		SJX1J722	"B'00010000'" S722 CANCEL was performed (reset in end-of-step SSI)



Table 205. Structure SJXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
30	(1E)	BITSTRING	1	SJXDEFEX	Excession type and action is saved in case the action must be deferred
		1... ..		SJXDEFPU	"B'10000000" Punch card excession
		.1.. ..		SJXDEFPR	"B'01000000" Line excession
		..1. ....		SJXDEFPG	"B'00100000" Page excession
		...1 ....		SJXDEFBT	"B'00010000" Byte excesssion
		.... 1...		SJXDEFJ2	"B'00001000" JES2 address space
		.... .1..		SJXDEFEN	"B'00000100" Action is cancel
		.... ..1.		SJXDEFDM	"B'00000010" Action is dump
		.... ...1		SJXDEFWR	"B'00000001" Action is warning
31	(1F)	BITSTRING	1	SJXFLAG2	Flags - serialized via Compare and Swap
		1... ..		SJX2TITL	"B'10000000" Joblog title line written
		.1.. ....		SJX2INTR	"B'01000000" Interpreter called during conversion phase
32	(20)	BITSTRING	3		Reserved for future use
35	(23)	BITSTRING	1	SJXJOBRC	JOBRC value
		.1.. ....		SJXJBMRC	"X'40" JOBRC=MAXRC specified
		..1. ....		SJXJBLRC	"X'20" JOBRC=LASTRC specified
		...1 ....		SJXJBSRC	"X'10" JOBRC=(STEP,x) specified
36	(24)	CHARACTER	8	SJXJBPSN	JOBRC name on 'EXEC PGM='
44	(2C)	CHARACTER	8	SJXJBPPS	JOBRC name on 'EXEC PROC='
52	(34)	SIGNED	4	SJXSPNUM	NUMBER OF SPIN IOTS UNALLOCATED AND NOT YET REUSED
56	(38)	ADDRESS	4	SJXRIOT	ADDRESS OF LAST NORMAL IOT USED IN REUSE SEARCH
60	(3C)	ADDRESS	4	SJXRPDDB	OFFSET OF LAST NULL PLACEHOLDER Pddb USED IN REUSE SEARCH
64	(40)	ADDRESS	4	SJXDSCA	For SYSLOG jobs, address of first data set catalog (DSCA) block
68	(44)	ADDRESS	4	SJXALTST	Addr of alternate system symbol table for instream symbol substitution
72	(48)	BITSTRING	8		Reserved
80	(50)	ADDRESS	4	SJXSLOGP	Ptr to 1st logging YLGC
THE ESTIMATED COUNT FIELDS MUST BE KEPT TOGETHER AND ARE MAPPED BY THE EST DSECT GENERATED BY THE \$EST MACRO					
84	(54)	SIGNED	4	SJXLINES(0)	LINE EXCESSION FIELDS
84	(54)	SIGNED	4	SJXLNINT	EST LINE MESSAGE INTERVAL
88	(58)	BITSTRING	1	SJXLNOP	EXECUTION LINE OPTION
89	(59)	BITSTRING	3		RESERVED FOR FUTURE USE
92	(5C)	SIGNED	4	SJXPUNCH(0)	PUNCH EXCESSION FIELDS
92	(5C)	SIGNED	4	SJXPUIINT	EST CARD MESSAGE INTERVAL
96	(60)	BITSTRING	1	SJXPUNOP	EXECUTION CARD OPTION
97	(61)	BITSTRING	3		RESERVED FOR FUTURE USE
100	(64)	SIGNED	4	SJXPAGES(0)	PAGES EXCESSION FIELDS
100	(64)	SIGNED	4	SJXPGINIT	EST PAGES MESSAGE INTERVAL
104	(68)	BITSTRING	1	SJXPGOP	EXECUTION PAGES OPTION



Table 205. Structure SJXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
105	(69)	BITSTRING	3		RESERVED FOR FUTURE USE
108	(6C)	SIGNED	4	SJXBYTES(0)	BYTES EXCESSION FIELDS
108	(6C)	SIGNED	4	SJXBYINT	EST BYTES MESSAGE INTERVAL
112	(70)	BITSTRING	1	SJXBYTOP	EXECUTION BYTE OPTION
113	(71)	BITSTRING	3		RESERVED FOR FUTURE USE
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.					
116	(74)	CHARACTER	4	SJXACCT	Account number
120	(78)	CHARACTER	1	SJXMSGCL	MSGCLASS value for TPs only
121	(79)	BITSTRING	3		Reserved for future use
FIELD RESERVED FOR THE USER					
124	(7C)	ADDRESS	4	SJXUSER	*** RESERVED FOR USER ***
128	(80)	ADDRESS	4	SJXJMR	Address of extended JMR in 24 bit storage
132	(84)	SIGNED	4	(4)	Reserved for future use
148	(94)	SIGNED	4	SJXPBFCT	NUMBER OF EXTRA PBUFS
152	(98)	ADDRESS	4	SJXWTCHN	Chain of SDBs waiting for PBUFs (for PUT)
156	(9C)	BITSTRING	12	SJXRESRV	Reserved for future IBM use
168	(A8)	DBL WORD	8	SJXDWORK	General work area
176	(B0)	DBL WORD	8	(0)	Ensure doubleword alignment
176	(B0)		8	SJXJBPRT	Job total printed output (in packed decimal form)
184	(B8)		8	SJXJBPUK	Job total punched output (in packed decimal form)
192	(C0)		8	SJXJBPAK	Job total page count (in packed decimal form)
200	(C8)		8	SJXJBMYT	Job total byte count (in packed decimal form)
208	(D0)		8	SJXSPUNB	Job total spun byte count (in packed decimal form)
The following fields track the total bytes written by the job using data blocks					
216	(D8)	ADDRESS	8	SJXBYTEC	Total job uncompressed byte count
224	(E0)	ADDRESS	8	SJXBCOMP	Total job compressed byte count
232	(E8)	SIGNED	4	SJXCMPT	Compressed data set count
236	(EC)	SIGNED	4	SJXENCCT	Encrypted data set count
236	(EC)	X'D8'	0	SJXENCFL	"SJXBYTEC,*-SJXBYTEC" Composite of all encryption stat fields
240	(F0)	CHARACTER	1	SJXJCOR	Job Correlator
End of area cleared when the SJB is reused.					
304	(130)	DBL WORD	8	SJXCLEND(0)	END OF CLEARED SECTION
304	(130)	BITSTRING	32	SJXTGRME	TG rsrc management entry
336	(150)	SIGNED	4	SJXPBFML	Limit on number of PBUFs allowed in this addr space



Table 205. Structure SJXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Addresses of SPCs for Joblog and SYSMSG					
340	(154)	ADDRESS	4	SJXLSPC	JOBLOG SPC address
344	(158)	ADDRESS	4	SJXMSPC	SYSMSG SPC address
The following area contains information to track job history data (used by IAZJHIST macro) and mapped by IAZJHCB					
348	(15C)	SIGNED	4	SJXBJHLN	Length of SJXBJHCB buffer
352	(160)	ADDRESS	8	SJXBJHCB	Job history CB address
360	(168)	BITSTRING	8	SJXBJTKN	Job history token
ACB FOR HASP JOB LOG DATASET					
368	(170)	SIGNED	4	SJXLACB(0)	
368	(170)	BITSTRING	1		. ACB IDENTIFICATION
369	(171)	ADDRESS	1		ACB SUBTYPE X04SVHS
370	(172)	ADDRESS	2		. ACB LENGTH X03004HS
372	(174)	ADDRESS	4		. AMB LIST POINTER
376	(178)	ADDRESS	4		. INTERFACE ROUTINE POINTER
380	(17C)	BITSTRING	1		MACRF(1) X04SVHS
381	(17D)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
382	(17E)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
383	(17F)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
384	(180)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
386	(182)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
388	(184)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
389	(185)	ADDRESS	1		SHARED RESOURCE POOL ID
390	(186)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
392	(188)	BITSTRING	1		. RECFM=A
393	(189)	BITSTRING	1		READ INTEGRITY OPTIONS
394	(18A)	BITSTRING	2		. DSORG=ACB
396	(18C)	ADDRESS	4		X04SVHS
400	(190)	ADDRESS	4		. PASSWORD POINTER
404	(194)	ADDRESS	4		. EXIT LIST POINTER
408	(198)	CHARACTER	8		
416	(1A0)	BITSTRING	1		OFLAGS
417	(1A1)	ADDRESS	1		. ERFLAGS
418	(1A2)	BITSTRING	1		INFLGS(1) X04SVHS
419	(1A3)	BITSTRING	1		INFLGS(2) X04SVHS
420	(1A4)	ADDRESS	4		. OPENJ JFCB POINTER
424	(1A8)	ADDRESS	4		BUFFER SPACE
428	(1AC)	ADDRESS	2		. BLOCK SIZE



Table 205. Structure SJXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
430	(1AE)	ADDRESS	2		. RECORD SIZE
432	(1B0)	ADDRESS	4		. USER WORKAREA POINTER
436	(1B4)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
440	(1B8)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
RPL FOR HASP JOB LOG DATASET					
444	(1BC)	SIGNED	4	SJXLRPL(0)	
444	(1BC)	ADDRESS	1		RPL IDENTIFICATION
445	(1BD)	ADDRESS	1		RPL SUBTYPE X04SVHS
446	(1BE)	ADDRESS	1		RPL REQUEST TYPE
447	(1BF)	ADDRESS	1		RPL LENGTH X03004
448	(1C0)	ADDRESS	4		. POINTER TO PLACEHOLDER
452	(1C4)	ADDRESS	4		. ECB
456	(1C8)	BITSTRING	1		. STATUS BYTE
457	(1C9)	BITSTRING	3		FEEDBACK CODES
460	(1CC)	ADDRESS	2		. KEY LENGTH
462	(1CE)	ADDRESS	2		. TRANSID
464	(1D0)	ADDRESS	4		POINTER TO CONTROL CHARACTER
468	(1D4)	ADDRESS	4		
472	(1D8)	ADDRESS	4		. POINTER TO TCB
476	(1DC)	ADDRESS	4		. POINTER TO RECORD AREA
480	(1E0)	ADDRESS	4		. POINTER TO ARGUMENT
484	(1E4)	BITSTRING	1		. OPTCD BYTE 1
485	(1E5)	BITSTRING	1		
486	(1E6)	BITSTRING	1		OPTCD BYTE 3
487	(1E7)	BITSTRING	1		OPTCD BYTE 4
488	(1E8)	ADDRESS	4		. POINTER TO NEXT RPL
492	(1EC)	ADDRESS	4		. RESERVED FOR LOGICAL REC LEN
496	(1F0)	ADDRESS	4		. RESERVED FOR BUFFER LENGTH OPTCD BYTES 5-8 X03004
500	(1F4)	BITSTRING	1		
501	(1F5)	BITSTRING	1		
502	(1F6)	BITSTRING	1		
503	(1F7)	BITSTRING	1		
504	(1F8)	BITSTRING	8		. RBA
512	(200)	BITSTRING	1		
513	(201)	ADDRESS	1		ACTIVE INDICATOR
514	(202)	ADDRESS	2		. MAXIMUM ERROR MSG LENGTH
516	(204)	ADDRESS	4		. RESERVED FOR MESSAGE AREA PTR
516	(204)	X'208'	0	SJXLOGE	"*" End of job log ACB/RPL
ACB, RPL, etc. for NJE from NETSRV address space					
368	(170)	SIGNED	4	SJXNJACB(0)	
368	(170)	BITSTRING	1		. ACB IDENTIFICATION
369	(171)	ADDRESS	1		ACB SUBTYPE X04SVHS



Table 205. Structure SJXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
370	(172)	ADDRESS	2		. ACB LENGTH X03004HS
372	(174)	ADDRESS	4		. AMB LIST POINTER
376	(178)	ADDRESS	4		. INTERFACE ROUTINE POINTER
380	(17C)	BITSTRING	1		MACRF(1) X04SVHS
381	(17D)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
382	(17E)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
383	(17F)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
384	(180)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
386	(182)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
388	(184)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
389	(185)	ADDRESS	1		SHARED RESOURCE POOL ID
390	(186)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
392	(188)	BITSTRING	1		. RECFM=A
393	(189)	BITSTRING	1		READ INTEGRITY OPTIONS
394	(18A)	BITSTRING	2		. DSORG=ACB
396	(18C)	ADDRESS	4		X04SVHS
400	(190)	ADDRESS	4		. PASSWORD POINTER
404	(194)	ADDRESS	4		. EXIT LIST POINTER
408	(198)	CHARACTER	8		
416	(1A0)	BITSTRING	1		OFLAGS
417	(1A1)	ADDRESS	1		. ERFLAGS
418	(1A2)	BITSTRING	1		INFLGS(1) X04SVHS
419	(1A3)	BITSTRING	1		INFLGS(2) X04SVHS
420	(1A4)	ADDRESS	4		. OPENJ JFCB POINTER
424	(1A8)	ADDRESS	4		BUFFER SPACE
428	(1AC)	ADDRESS	2		. BLOCK SIZE
430	(1AE)	ADDRESS	2		. RECORD SIZE
432	(1B0)	ADDRESS	4		. USER WORKAREA POINTER
436	(1B4)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
440	(1B8)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
444	(1BC)	SIGNED	4	(0)	
444	(1BC)	BITSTRING	80	SJXNJRPL	RPL uses SJXNJACB
Transaction Processor Fields					
524	(20C)	ADDRESS	4	SJXSJBS	Address of SJB save area
528	(210)	SIGNED	4	SJXTRPL(0)	
528	(210)	ADDRESS	1		RPL IDENTIFICATION
529	(211)	ADDRESS	1		RPL SUBTYPE X04SVHS
530	(212)	ADDRESS	1		RPL REQUEST TYPE
531	(213)	ADDRESS	1		RPL LENGTH X03004



Table 205. Structure SJXB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
532	(214)	ADDRESS	4		. POINTER TO PLACEHOLDER
536	(218)	ADDRESS	4		. ECB
540	(21C)	BITSTRING	1		. STATUS BYTE
541	(21D)	BITSTRING	3		FEEDBACK CODES
544	(220)	ADDRESS	2		. KEY LENGTH
546	(222)	ADDRESS	2		. TRANSID
548	(224)	ADDRESS	4		POINTER TO CONTROL CHARACTER
552	(228)	ADDRESS	4		. POINTER TO ACB
556	(22C)	ADDRESS	4		. POINTER TO TCB
560	(230)	ADDRESS	4		. POINTER TO RECORD AREA
564	(234)	ADDRESS	4		. POINTER TO ARGUMENT
568	(238)	BITSTRING	1		. OPTCD BYTE 1
569	(239)	BITSTRING	1		
570	(23A)	BITSTRING	1		OPTCD BYTE 3
571	(23B)	BITSTRING	1		OPTCD BYTE 4
572	(23C)	ADDRESS	4		. POINTER TO NEXT RPL
576	(240)	ADDRESS	4		. RESERVED FOR LOGICAL REC LEN
580	(244)	ADDRESS	4		. RESERVED FOR BUFFER LENGTH OPTCD BYTES 5-8 X03004
584	(248)	BITSTRING	1		
585	(249)	BITSTRING	1		
586	(24A)	BITSTRING	1		
587	(24B)	BITSTRING	1		
588	(24C)	BITSTRING	8		. RBA
596	(254)	BITSTRING	1		
597	(255)	ADDRESS	1		ACTIVE INDICATOR
598	(256)	ADDRESS	2		. MAXIMUM ERROR MSG LENGTH
600	(258)	ADDRESS	4		. RESERVED FOR MESSAGE AREA PTR
604	(25C)	ADDRESS	4	SJXTACB	Address of ACB for SYSLOG
608	(260)	BITSTRING	4		Reserved for future use
612	(264)	SIGNED	4	SJXJSPCT	Number of SAPI threads awaiting JES2 addresspace
MACDATE = 06/13/1996					
616	(268)	SIGNED	4	SJXALES(0)	.ALESERV PC PARAMETER LIST
616	(268)	BITSTRING	1		.SERVICE TYPE CODE
617	(269)	BITSTRING	1		.OPTIONS FLAG BYTE
618	(26A)	ADDRESS	2		.RESERVED
620	(26C)	ADDRESS	4		.ALET
624	(270)	BITSTRING	8		.STOKEN (SPACE TOKEN)
624	(270)	X'10'	0	SJXALESL	"*-SJXALES" Length of block
MACDATE = 04/03/89					
616	(268)	SIGNED	4	SJXTTOK(0)	
616	(268)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
616	(268)	BITSTRING	8		



Table 205. Structure SJXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
624	(270)	SIGNED	4		
628	(274)	ADDRESS	4		
632	(278)	ADDRESS	4		ASCB ADDRESS (INPUT)
636	(27C)	SIGNED	4	(0)	FLAGS (INPUT)
636	(27C)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
637	(27D)	SIGNED	3		RESERVED
637	(27D)	X'18'	0	SJXTTOKL	"*-SJXTTOK" Length of block
640	(280)	BITSTRING	200	SJXS35D	Memory in primary space for WT0LOGQ processing (serialized by SJB lock)
840	(348)	CHARACTER	8	SJXBOSRV	Original service class
848	(350)	DBL WORD	8	(0)	
848	(350)	X'350'	0	SJXBSIZE	"*-SJXB" SIZE OF SJB EXTENSION

Table 206. Structure SJXDEB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SJXDEB	, Start of DSECT
0	(0)	CHARACTER	4	SJXDID	Eyecatcher
4	(4)	ADDRESS	4	SJXDSJXB	Address of SJXB
8	(8)	SIGNED	4	SJXDLEN	Length of SJXDEB
12	(C)	SIGNED	4	SJXDSTRT(0)	Start of DEBs
DEB for HASP job log data set					
12	(C)	BITSTRING	1	SJXLDEB	
ACB for internal text/SWA blocks data set					
44	(2C)	SIGNED	4	SJXIACB(0)	
44	(2C)	BITSTRING	1		. ACB IDENTIFICATION
45	(2D)	ADDRESS	1		ACB SUBTYPE X04SVHS
46	(2E)	ADDRESS	2		. ACB LENGTH X03004HS
48	(30)	ADDRESS	4		. AMB LIST POINTER
52	(34)	ADDRESS	4		. INTERFACE ROUTINE POINTER
56	(38)	BITSTRING	1		MACRF(1) X04SVHS
57	(39)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
58	(3A)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
59	(3B)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
60	(3C)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
62	(3E)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
64	(40)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
65	(41)	ADDRESS	1		SHARED RESOURCE POOL ID
66	(42)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
68	(44)	BITSTRING	1		. RECFM=A



Table 206. Structure SJXDEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
69	(45)	BITSTRING	1		READ INTEGRITY OPTIONS
70	(46)	BITSTRING	2		. DSORG=ACB
72	(48)	ADDRESS	4		X04SVHS
76	(4C)	ADDRESS	4		. PASSWORD POINTER
80	(50)	ADDRESS	4		. EXIT LIST POINTER
84	(54)	CHARACTER	8		
92	(5C)	BITSTRING	1		OFLAGS
93	(5D)	ADDRESS	1		. ERFLAGS
94	(5E)	BITSTRING	1		INFLGS(1) X04SVHS
95	(5F)	BITSTRING	1		INFLGS(2) X04SVHS
96	(60)	ADDRESS	4		. OPENJ JFCB POINTER
100	(64)	ADDRESS	4		BUFFER SPACE
104	(68)	ADDRESS	2		. BLOCK SIZE
106	(6A)	ADDRESS	2		. RECORD SIZE
108	(6C)	ADDRESS	4		. USER WORKAREA POINTER
112	(70)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
116	(74)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
DEB for internal text/SWA blocks data set					
120	(78)	BITSTRING	1	SJXIDEB	
ACB for system messages dataset					
152	(98)	SIGNED	4	SJXMACB(0)	
152	(98)	BITSTRING	1		. ACB IDENTIFICATION
153	(99)	ADDRESS	1		ACB SUBTYPE X04SVHS
154	(9A)	ADDRESS	2		. ACB LENGTH X03004HS
156	(9C)	ADDRESS	4		. AMB LIST POINTER
160	(A0)	ADDRESS	4		. INTERFACE ROUTINE POINTER
164	(A4)	BITSTRING	1		MACRF(1) X04SVHS
165	(A5)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
166	(A6)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
167	(A7)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
168	(A8)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
170	(AA)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
172	(AC)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
173	(AD)	ADDRESS	1		SHARED RESOURCE POOL ID
174	(AE)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
176	(B0)	BITSTRING	1		. RECFM=A
177	(B1)	BITSTRING	1		READ INTEGRITY OPTIONS
178	(B2)	BITSTRING	2		. DSORG=ACB



Table 206. Structure SJXDEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
180	(B4)	ADDRESS	4		X04SVHS
184	(B8)	ADDRESS	4		. PASSWORD POINTER
188	(BC)	ADDRESS	4		. EXIT LIST POINTER
192	(C0)	CHARACTER	8		
200	(C8)	BITSTRING	1		OFLAGS
201	(C9)	ADDRESS	1		. ERFLAGS
202	(CA)	BITSTRING	1		INFLGS(1) X04SVHS
203	(CB)	BITSTRING	1		INFLGS(2) X04SVHS
204	(CC)	ADDRESS	4		. OPENJ JFCB POINTER
208	(D0)	ADDRESS	4		BUFFER SPACE
212	(D4)	ADDRESS	2		. BLOCK SIZE
214	(D6)	ADDRESS	2		. RECORD SIZE
216	(D8)	ADDRESS	4		. USER WORKAREA POINTER
220	(DC)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
224	(E0)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
DEB for system messages data set					
228	(E4)	BITSTRING	1	SJXMDEB	
RPL for system messages dataset					
260	(104)	SIGNED	4	SJXMRPL(0)	
260	(104)	ADDRESS	1		RPL IDENTIFICATION
261	(105)	ADDRESS	1		RPL SUBTYPE X04SVHS
262	(106)	ADDRESS	1		RPL REQUEST TYPE
263	(107)	ADDRESS	1		RPL LENGTH X03004
264	(108)	ADDRESS	4		. POINTER TO PLACEHOLDER
268	(10C)	ADDRESS	4		. ECB
272	(110)	BITSTRING	1		. STATUS BYTE
273	(111)	BITSTRING	3		FEEDBACK CODES
276	(114)	ADDRESS	2		. KEY LENGTH
278	(116)	ADDRESS	2		. TRANSID
280	(118)	ADDRESS	4		POINTER TO CONTROL CHARACTER
284	(11C)	ADDRESS	4		
288	(120)	ADDRESS	4		. POINTER TO TCB
292	(124)	ADDRESS	4		. POINTER TO RECORD AREA
296	(128)	ADDRESS	4		. POINTER TO ARGUMENT
300	(12C)	BITSTRING	1		. OPTCD BYTE 1
301	(12D)	BITSTRING	1		
302	(12E)	BITSTRING	1		OPTCD BYTE 3
303	(12F)	BITSTRING	1		OPTCD BYTE 4
304	(130)	ADDRESS	4		. POINTER TO NEXT RPL
308	(134)	ADDRESS	4		. RESERVED FOR LOGICAL REC LEN
312	(138)	ADDRESS	4		. RESERVED FOR BUFFER LENGTH OPTCD BYTES 5-8 X03004
316	(13C)	BITSTRING	1		



Table 206. Structure SJXDEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
317	(13D)	BITSTRING	1		
318	(13E)	BITSTRING	1		
319	(13F)	BITSTRING	1		
320	(140)	BITSTRING	8		. RBA
328	(148)	BITSTRING	1		
329	(149)	ADDRESS	1		ACTIVE INDICATOR
330	(14A)	ADDRESS	2		. MAXIMUM ERROR MSG LENGTH
332	(14C)	ADDRESS	4		. RESERVED FOR MESSAGE AREA PTR
ACB for journal dataset					
336	(150)	SIGNED	4	SJXJACB(0)	
336	(150)	BITSTRING	1		. ACB IDENTIFICATION
337	(151)	ADDRESS	1		ACB SUBTYPE X04SVHS
338	(152)	ADDRESS	2		. ACB LENGTH X03004HS
340	(154)	ADDRESS	4		. AMB LIST POINTER
344	(158)	ADDRESS	4		. INTERFACE ROUTINE POINTER
348	(15C)	BITSTRING	1		MACRF(1) X04SVHS
349	(15D)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
350	(15E)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
351	(15F)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
352	(160)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
354	(162)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
356	(164)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
357	(165)	ADDRESS	1		SHARED RESOURCE POOL ID
358	(166)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
360	(168)	BITSTRING	1		. RECFM=A
361	(169)	BITSTRING	1		READ INTEGRITY OPTIONS
362	(16A)	BITSTRING	2		. DSORG=ACB
364	(16C)	ADDRESS	4		X04SVHS
368	(170)	ADDRESS	4		. PASSWORD POINTER
372	(174)	ADDRESS	4		. EXIT LIST POINTER
376	(178)	CHARACTER	8		
384	(180)	BITSTRING	1		OFLAGS
385	(181)	ADDRESS	1		. ERFLAGS
386	(182)	BITSTRING	1		INFLGS(1) X04SVHS
387	(183)	BITSTRING	1		INFLGS(2) X04SVHS
388	(184)	ADDRESS	4		. OPENJ JFCB POINTER
392	(188)	ADDRESS	4		BUFFER SPACE
396	(18C)	ADDRESS	2		. BLOCK SIZE
398	(18E)	ADDRESS	2		. RECORD SIZE
400	(190)	ADDRESS	4		. USER WORKAREA POINTER



Table 206. Structure SJXDEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
404	(194)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
408	(198)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
408	(198)	X'4C'	0	SJACBLGH	"*-SJXJACB" Length of JACB
DEB for journal dataset					
412	(19C)	BITSTRING	1	SJXJDEB	
ACB for EVENTLOG data set					
444	(18C)	BITSTRING	4	SJXEACBP(0)	EVENTLOG ACB Options prefix
444	(18C)	BITSTRING	1	SJXEAPF1	Suppression flags
		1... ....		SJXEAPSM	"B'10000000'" Suppress EVENTLOG SMF rec
		..1. ....		SJXEAPRS	"B'00100000'" Suppress EVENTLOG RESTART
		...1 ....		SJXEAPTR	"B'00010000'" Suppress EVENTLOG TRACE r
		.... 1...		SJXEAPUS	"B'00001000'" Suppress EVENTLOG USER rc
445	(18D)	BITSTRING	3		Reserved
445	(18D)	X'4'	0	SJXEAPLN	"*-SJXEACBP" Length of Options prefix
448	(1C0)	SIGNED	4	SJXEACB(0)	
448	(1C0)	BITSTRING	1		. ACB IDENTIFICATION
449	(1C1)	ADDRESS	1		ACB SUBTYPE X04SVHS
450	(1C2)	ADDRESS	2		. ACB LENGTH X03004HS
452	(1C4)	ADDRESS	4		. AMB LIST POINTER
456	(1C8)	ADDRESS	4		. INTERFACE ROUTINE POINTER
460	(1CC)	BITSTRING	1		MACRF(1) X04SVHS
461	(1CD)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
462	(1CE)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
463	(1CF)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
464	(1D0)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
466	(1D2)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
468	(1D4)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
469	(1D5)	ADDRESS	1		SHARED RESOURCE POOL ID
470	(1D6)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
472	(1D8)	BITSTRING	1		. RECFM=A
473	(1D9)	BITSTRING	1		READ INTEGRITY OPTIONS
474	(1DA)	BITSTRING	2		. DSORG=ACB
476	(1DC)	ADDRESS	4		X04SVHS
480	(1E0)	ADDRESS	4		. PASSWORD POINTER
484	(1E4)	ADDRESS	4		. EXIT LIST POINTER
488	(1E8)	CHARACTER	8		



Table 206. Structure SJXDEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
496	(1F0)	BITSTRING	1		OFLAGS
497	(1F1)	ADDRESS	1		. ERFLAGS
498	(1F2)	BITSTRING	1		INFLGS(1) X04SVHS
499	(1F3)	BITSTRING	1		INFLGS(2) X04SVHS
500	(1F4)	ADDRESS	4		. OPENJ JFCB POINTER
504	(1F8)	ADDRESS	4		BUFFER SPACE
508	(1FC)	ADDRESS	2		. BLOCK SIZE
510	(1FE)	ADDRESS	2		. RECORD SIZE
512	(200)	ADDRESS	4		. USER WORKAREA POINTER
516	(204)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
520	(208)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
520	(208)	X'4C'	0	SJEACBLN	"*-SJXEACB" Length of SJXEACB
DEB for EVENTLOG data set					
524	(20C)	BITSTRING	1	SJXEDEB	
524	(20C)	X'20'	0	SJEDEBLN	"*-SJXEDEB" Length of SJXEDEB
RPL for EVENTLOG data set					
556	(22C)	SIGNED	4	SJXERPL(0)	
556	(22C)	ADDRESS	1		RPL IDENTIFICATION
557	(22D)	ADDRESS	1		RPL SUBTYPE X04SVHS
558	(22E)	ADDRESS	1		RPL REQUEST TYPE
559	(22F)	ADDRESS	1		RPL LENGTH X03004
560	(230)	ADDRESS	4		. POINTER TO PLACEHOLDER
564	(234)	ADDRESS	4		. ECB
568	(238)	BITSTRING	1		. STATUS BYTE
569	(239)	BITSTRING	3		FEEDBACK CODES
572	(23C)	ADDRESS	2		. KEY LENGTH
574	(23E)	ADDRESS	2		. TRANSID
576	(240)	ADDRESS	4		POINTER TO CONTROL CHARACTER
580	(244)	ADDRESS	4		
584	(248)	ADDRESS	4		. POINTER TO TCB
588	(24C)	ADDRESS	4		. POINTER TO RECORD AREA
592	(250)	ADDRESS	4		. POINTER TO ARGUMENT
596	(254)	BITSTRING	1		. OPTCD BYTE 1
597	(255)	BITSTRING	1		
598	(256)	BITSTRING	1		OPTCD BYTE 3
599	(257)	BITSTRING	1		OPTCD BYTE 4
600	(258)	ADDRESS	4		. POINTER TO NEXT RPL
604	(25C)	ADDRESS	4		. RESERVED FOR LOGICAL REC LEN
608	(260)	ADDRESS	4		. RESERVED FOR BUFFER LENGTH OPTCD BYTES 5-8 X03004
612	(264)	BITSTRING	1		
613	(265)	BITSTRING	1		
614	(266)	BITSTRING	1		



Table 206. Structure SJXDEB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
615	(267)	BITSTRING	1		
616	(268)	BITSTRING	8		. RBA
624	(270)	BITSTRING	1		
625	(271)	ADDRESS	1		ACTIVE INDICATOR
626	(272)	ADDRESS	2		. MAXIMUM ERROR MSG LENGTH
628	(274)	ADDRESS	4		. RESERVED FOR MESSAGE AREA PTR
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.					
632	(278)	SIGNED	4	SJXXWPL(0)	External writer parameter list
632	(278)	SIGNED	4	SJXXWECB	ECB for the external writer
636	(27C)	BITSTRING	4	SJXRDRON	Time on input processor
640	(280)	BITSTRING	4	SJXRDTON	Date on input processor
644	(284)	CHARACTER	8	SJXUSEID	JMR installation data field
End of external writer parameter list Single DEB for special processing cases (NETSERV, \$LOGMSG, etc).					
12	(C)	BITSTRING	36	SJX1DEB	
48	(30)	DBL WORD	8	(0)	Round up area length
48	(30)	X'30'	0	SJXD1SIZ	"*-SJXDEB" Length with a single DEB
656	(290)	DBL WORD	8	(0)	Round up area
656	(290)	X'290'	0	SJXD5IZE	"*-SJXDEB" Length of extension

Table 207. Cross Reference for \$SJXB

Name	Offset	Hex Tag
SJACBLGH	198	4C
SJEACBLN	208	4C
SJEDEBLN	20C	20
SJXACCT	74	
SJXALES	268	
SJXALES�	270	10
SJXALTST	44	
SJXB	0	
SJXBCOMP	E0	
SJXBDEBS	8	
SJXBID	0	
SJXBJHCB	160	
SJXBJHLN	15C	
SJXBJTKN	168	
SJXBOSRV	348	
SJXBPI0B	C	
SJXB5I0T	18	



Table 207. Cross Reference for \$SJXB (continued)

Name	Offset	Hex Tag
SJXBSize	350	350
SJXBSJBA	4	
SJXBSPDB	1C	
SJXBUSAV	18	
SJXBYINT	6C	
SJXBYTEC	D8	
SJXBYTES	6C	
SJXBYTOP	70	
SJXCLBEG	14	
SJXCLEND	130	
SJXCMPCT	E8	
SJXDEB	0	
SJXDEFBT	1E	10
SJXDEFCN	1E	4
SJXDEFDM	1E	2
SJXDEFEX	1E	
SJXDEFJ2	1E	8
SJXDEFPG	1E	20
SJXDEFPR	1E	40
SJXDEFPU	1E	80
SJXDEFWR	1E	1
SJXDID	0	E2D1E7C4
SJXDLEN	8	
SJXDSCA	40	
SJXDSize	290	290
SJXDSJXB	4	
SJXDSTRT	C	
SJXDWORK	A8	
SJXD1SIZ	30	30
SJXEACB	1C0	
SJXEACBP	1BC	
SJXEAPF1	1BC	
SJXEAPLN	1BD	4
SJXEAPRS	1BC	20
SJXEAPSM	1BC	80
SJXEAPTR	1BC	10
SJXEAPUS	1BC	8
SJXEDEB	20C	0
SJXENCCT	EC	



Table 207. Cross Reference for \$SJXB (continued)

Name	Offset	Hex Tag
SJXENCFL	EC	D8
SJXERPL	22C	
SJXFLAG1	1D	
SJXFLAG2	1F	
SJXGGST	10	
SJXIACB	2C	
SJXIDEB	78	0
SJXJACB	150	
SJXJBBYT	C8	
SJXJBLRC	23	20
SJXJBMRC	23	40
SJXJB PAG	C0	
SJXJBPPS	2C	
SJXJB PRT	B0	
SJXJBPSN	24	
SJXJB PUN	B8	
SJXJBSRC	23	10
SJXJCOR	F0	
SJXJDEB	19C	0
SJXJMR	80	
SJXJOBRC	23	
SJXJSPCT	264	
SJXLACB	170	
SJXLDEB	C	0
SJXLINES	54	
SJXLNINT	54	
SJXLNOP	58	
SJXLOGE	204	208
SJXLRPL	1BC	
SJXLSPC	154	
SJXMACB	98	
SJXMDEB	E4	0
SJXMRPL	104	
SJXMSGCL	78	
SJXMSPC	158	
SJXNJACB	170	
SJXNJRPL	1BC	0
SJXPAGES	64	
SJXPBFCT	94	



Table 207. Cross Reference for \$SJXB (continued)

Name	Offset	Hex Tag
SJXPBFLM	150	
SJXPGINT	64	
SJXPGOP	68	
SJXPUINT	5C	
SJXPUNCH	5C	
SJXPUNOP	60	
SJXRDRON	27C	
SJXRDTON	280	
SJXRESRV	9C	
SJXRIOT	38	
SJXRPDDDB	3C	
SJXSJBS	20C	
SJXSLOGP	50	
SJXSPNUM	34	
SJXSPUNB	D0	
SJXS35D	280	
SJXTACB	25C	
SJXTGRME	130	
SJXTRPL	210	
SJXTTOK	268	
SJXTTOKL	27D	18
SJXUSEID	284	
SJXUSER	7C	
SJXWTCHN	98	
SJXXWECB	278	
SJXXWPL	278	
SJX1DEB	C	0
SJX1JPGM	1D	40
SJX1JSDS	1D	20
SJX1J722	1D	10
SJX1PLHD	1D	80
SJX2INTR	1F	40
SJX2TITL	1F	80

## \$SMF information

### \$SMF programming interface information

\$SMF is a programming interface.



## \$SMF heading information

<b>Common name:</b>	HASP SMF BUFFER DSECT
<b>Macro ID:</b>	\$SMF
<b>DSECT name:</b>	SMF
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	None
<b>Storage attributes:</b>	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.
<b>Size:</b>	See SMFLNG
<b>Created by:</b>	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.
<b>Pointed to by:</b>	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.
<b>Serialization:</b>	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.
<b>Function:</b>	\$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 mapping

Table 208. Structure SMF

Offset Dec	Offset Hex	Type	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
		1... ..		SMFJM RTP	"B'10000000'" JMR BUFFER
		.1... ..		SMFLRGTP	"B'01000000'" LARGE SMF RECORD BUFFER
		..1. ....		SMFQUED	"B'00100000'" Buffer is queued to HASPACCT subtask



Table 208. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
5	(5)	CHARACTER	1	SMFWFL26	RECORD 26 WRITE FLAG
5	(5)	X'1'	0	SMFN026	"1" DO NOT WRITE SMF RECORD
6	(6)	CHARACTER	1	SMFCLFLG	CLASS SMF AFFINITY
		.... ...1		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
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					
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
BEGINNING OF JMR OR HASP SMF RECORD					
10	(A)	X'C'	0	SMFJMR	"*" JMR DATA AREA

Table 209. Structure SMFHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMFHDR	
0	(0)	CHARACTER	24	SMFHDR_STANDARD_HDR	Standard record header
0	(0)	CHARACTER	18	SMFHDR_MINIMUM_HDR	Minimum record header
0	(0)	SIGNED	2	SMFHDR_LEN	RDW record length
Bit definitions:					
		1... ....		SMFHDR_LEN_HIGHBIT	"X'80'" Rec len high order bit
2	(2)	SIGNED	2	SMFHDR_SEG	RDW segment descriptor
4	(4)	BITSTRING	1	SMFHDR_FLAG	Flag byte
Bit definitions:					
		.1... ....		SMFHDR_STV	"X'40'" When set, subtypes are valid
5	(5)	BITSTRING	1	SMFHDR_RTY	Record type
6	(6)	SIGNED	4	SMFHDR_TIME	Record write time
10	(A)	CHARACTER	4	SMFHDR_DATE	Date record was written
14	(E)	CHARACTER	4	SMFHDR_SID	System ID
18	(12)	CHARACTER	6	SMFHDR_STD_HDR	
18	(12)	CHARACTER	4	SMFHDR_WID	SUBSYSTEM ID



Table 209. Structure SMFHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
22	(16)	SIGNED	2	SMFHDR_STP	Record subtype ***** ***** Extended SMF Record Header Version 1 For this header to be valid and present in the record, the following conditions must be met: - SMFHDR1_Len must be >= 56 ('38'x) - SMFHDR1_Ext must be on - SMFHDR1_Stv must be on - SMFHDR1_Rty must = 126 ('7E'x) - SMFHDR1_Ext_Len must = 32 ('20'x) - SMFHDR1_Version must = 1 ***** ***** *****

Table 210. Structure SMFHDR1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMFHDR1	
0	(0)	CHARACTER	24	SMFHDR1_STANDARD_HDR	Standard record header
0	(0)	CHARACTER	18	SMFHDR1_MINIMUM_HDR	Minimum record header
0	(0)	SIGNED	2	SMFHDR1_LEN	RDW record length must be >= 56 ( '36'x)
Bit definitions:					
		1... ....		SMFHDR1_LEN_HIGHBIT	"X'80'" Rec len high order bit
2	(2)	SIGNED	2	SMFHDR1_SEG	RDW segment descriptor
4	(4)	BITSTRING	1	SMFHDR1_FLAG	Flag byte
Bit definitions:					
		.1.. ....		SMFHDR1_STV	"X'40'" Subtypes are valid must be on
		..1. ....		SMFHDR1_EXT	"X'20'" Use the extended header must be on
5	(5)	BITSTRING	1	SMFHDR1_RTY	Record type - always 126 ('7E'x) for this header version
6	(6)	SIGNED	4	SMFHDR1_TIME	Record write time
10	(A)	CHARACTER	4	SMFHDR1_DATE	Date record was written
14	(E)	CHARACTER	4	SMFHDR1_SID	System ID
18	(12)	CHARACTER	6	SMFHDR1_STD_HDR	
18	(12)	CHARACTER	4	SMFHDR1_WID	SUBSYSTEM ID
22	(16)	SIGNED	2	SMFHDR1_STP	Record subtype
24	(18)	CHARACTER	32	SMFHDR1_EXTENDED_HDR	Extended record header
24	(18)	CHARACTER	28	SMFHDR1_V1_EXT_HDR	
24	(18)	SIGNED	2	SMFHDR1_EXT_LEN	Length of this section, must be 32 ( '20'x)
26	(1A)	BITSTRING	1	SMFHDR1_VERSION	Version, must be 1
27	(1B)	CHARACTER	1	SMFHDR1_FLAGS	Flag byte
Bit definitions:					
		1... ....		SMFHDR1_IEFU86	"X'80'" When on, indicates that the IEFU86 exit was called for this record



Table 210. Structure SMFHDR1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	CHARACTER	16	SMFHDR1_STCKE	Extended TOD clock when record was written
44	(2C)	CHARACTER	8	SMFHDR1_TZ0	TOD value that is used to convert GMT to local time. Taken from CVTLDT0.
52	(34)	SIGNED	2	SMFHDR1_EXT_RTY	Extended record type, always present for this header version.
54	(36)	CHARACTER	2		Reserved ***** ***** Extended SMF Record Header Version 2. For this header to be valid and present in the record, the following conditions must be met by the builder of the SMF record: - SMFHDR2_Len must be >= 92 ('5C'x) - SMFHDR2_Ext must be on - SMFHDR2_Stv must be on - SMFHDR2_Rty must = 126 ('7E'x) - SMFHDR2_Len must = 68 ('44'x) - SMFHDR2_Ext_Version must = 2 - SMFHDR2_Rsv1 must be zero. ***** *****

Table 211. Structure SMFHDR2

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMFHDR2	Version 2
0	(0)	CHARACTER	24	SMFHDR2_STANDARD_HDR	Standard record header
0	(0)	CHARACTER	18	SMFHDR2_MINIMUM_HDR	Minimum record header
0	(0)	SIGNED	2	SMFHDR2_LEN	RDW record length must be >= 92 ('5C'x)
Bit definitions:					
		1... ....		SMFHDR2_LEN_HIGHBIT	"X'80'" Rec len high order bit
2	(2)	SIGNED	2	SMFHDR2_SEG	RDW segment descriptor
4	(4)	BITSTRING	1	SMFHDR2_FLAG	Flag byte
Bit definitions:					
		.1.. ....		SMFHDR2_STV	"X'40'" Subtypes are valid. This bit must be on.
		..1. ....		SMFHDR2_EXT	"X'20'" Extended header is present. This bit must be on.
5	(5)	BITSTRING	1	SMFHDR2_RTY	Record type must be 126 ('7E'x) for this header version
6	(6)	SIGNED	4	SMFHDR2_TIME	Time when the record was moved to the SMF buffer. Set by IBM for IBM assigned record types.
10	(A)	CHARACTER	4	SMFHDR2_DATE	Date when the record was moved to the SMF buffer. Set by IBM for IBM assigned record types.
14	(E)	CHARACTER	4	SMFHDR2_SID	System ID. Set by IBM for IBM assigned record types.
18	(12)	CHARACTER	4	SMFHDR2_WID	Subsystem ID
22	(16)	SIGNED	2	SMFHDR2_STP	Record subtype
24	(18)	CHARACTER	68	SMFHDR2_EXTENDED_HDR	Extended header
24	(18)	SIGNED	2	SMFHDR2_EXT_LEN	Length of this section, must be 68 ('44'x).
26	(1A)	BITSTRING	1	SMFHDR2_VERSION	Version, must be 2.



Table 211. Structure SMFHDR2 (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
27	(1B)	CHARACTER	1	SMFHDR2_FLAGS	Flag byte
Bit definitions:					
		1... ....		SMFHDR2_IEFU86	"X'80'" When on, indicates that the IEFU86 exit was called for this record. Set by IBM.
28	(1C)	CHARACTER	16	SMFHDR2_STCKE	Extended TOD clock when record was moved to the SMF buffer. Set by IBM.
44	(2C)	CHARACTER	8	SMFHDR2_TZ0	TOD value at the time when the record was moved to the SMF buffer. This value can be used to convert GMT to local time. Taken from CVTLDT0. Set by IBM.
52	(34)	SIGNED	2	SMFHDR2_EXT_RTY	Extended Record type, values 0-2047 (hexadecimal values 0-7FF).
54	(36)	CHARACTER	2	SMFHDR2_RSV1	Reserved. Must be zero.
56	(38)	SIGNED	4	SMFHDR2_ZOS_PRODSEQ	This field contains the Z/OS version, release, and modification level of the system where the record was moved to the SMF buffer. Taken from ECVTPSEQ, Set by IBM.
60	(3C)	CHARACTER	16	SMFHDR2_TZ0_16	Local time/date offset in STCKE format when the record was moved to the SMF buffer. Taken from ECVTLDT0. Set by IBM.
76	(4C)	CHARACTER	16	SMFHDR2_LSO_16	Leap second value in effect when the record was moved to the SMF buffer, in STCKE format. Taken from ECVTLS0. Set by IBM. End of all SMFHDR versions
Constants					
76	(4C)	X'2'	0	SMFHDR_SMFEXT_MAXIMUM_VERSION	"2" Current maximum version
76	(4C)	X'800'	0	SMFHDR_MAX_RECORD_TYPES	"2048" Maximum number of types
76	(4C)	X'0'	0	SMFHDR_MIN_RTY_NUMBER	"0" Lowest allowable record type
76	(4C)	X'7FF'	0	SMFHDR_MAX_RTY_NUMBER	"2047" Highest allowable record type
76	(4C)	X'FF'	0	SMFHDR_MAX_STD_REC_TYPE	"255" Highest standard record type
76	(4C)	X'7E'	0	SMFHDR_EXTENDED_RECIND	"126" Used to indicate that the record has an extend type
76	(4C)	X'12'	0	SMFHDR_MIN_LEN	"18" Length of the minimum header.
76	(4C)	X'18'	0	SMFHDR_STD_LEN	"24" Length of the standard header.
76	(4C)	X'38'	0	SMFHDR_V1_LEN	"56" Length of SMFHDR1_Standard_Hdr + SMFHDR1_Extended_Hdr.
76	(4C)	X'5C'	0	SMFHDR_V2_LEN	"92" Length of SMFHDR2_Standard_Hdr + SMFHDR2_Extended_Hdr.
76	(4C)	X'20'	0	SMFHDR_EXT_V1_LEN	"32" Length of SMFHDR1_Extended_Hdr.
76	(4C)	X'44'	0	SMFHDR_EXT_V2_LEN	"68" Length of SMFHDR2_Extended_Hdr.
76	(4C)	X'8000'	0	SMFHDR_NUM_RECORD_SUBTYPES	"32768" The total num of subtypes
76	(4C)	X'12'	0	SMFHDR_MINIMUM_ALLOWED_REC_LEN	"18" Minimum allowable length of an SMF record.
76	(4C)	X'7FF4'	0	SMFHDR_MAXIMUM_ALLOWED_REC_LEN	"32756" Maximum allowable length of an SMF record.



Table 211. Structure SMFHDR2 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
IBM reserved record types and user reserved record types boundary indicators: IBM assigned record types: 0-127 and 1152-2047 User assigned record types: 128-1151					
76	(4C)	X'80'	0	SMFHDR_EXT_USERREC_LOW	"128" Low boundary of the user record types
76	(4C)	X'47F'	0	SMFHDR_EXT_USERREC_HIGH	"1151" High boundary of the extended IBM record type

Table 212. Structure SMF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF	, DSECT may be destroyed
<pre> START OF SPECIFICATIONS MACRO-NAME = IFASMFR PROPRIETARY STATEMENT = LICENSED MATERIALS - PROPERTY OF IBM 5655-ZOS COPYRIGHT IBM CORP. 1977, 2025 STATUS= HBB77F0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION:   THIS MACRO MAPS 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       IFASMFR4 85-103       IFASMFRB 104-113       IFASMFRD 114-123       IFASMFRD 124-127       IFASMFRD 1152-2047 (update as required) 01 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.  01 NOTES: none END OF SPECIFICATIONS THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS   IFASMFR &amp;RECTYPE NOTE: VALUES FOR &amp;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 &amp; TYPE OF OUTPUT(EG HELD VS NON-HELD). FOR JES3, WRITTEN FOR EACH COPY OF A DATA SET </pre>					
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
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



Table 212. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
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
		.... .1..		SMF6DIE	"X'04'" 5 - DATA INPUT ERROR 6 - RESV Y02120
		.... ...1		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
		1... ....		SMF6FEXT	"X'80'" 0 1 - FIRST EXTENSION PRESENT
		.1.. ....		SMF6REXT	"X'40'" 1 1 - COMMON SECTION PRESENT
		..1. ....		SMF6SEXT	"X'20'" 2 1 - SECOND EXTENSION PRESENT
		...1 ....		SMF6ESS1	"X'10'" 3 1 - ENHANCED SYSOUT SECTION PRESENT
		.... 1...		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
		1... ....		SMF6DCRV	"X'80'" 0 - RESERVED
		.1.. ....		SMF6SDS	"X'40'" 1 - SPUN OFF DS
		..1. ....		SMF6OCN	"X'20'" 2 - TERMINATED BY OPERATOR
		...1 ....		SMF6ORD	"X'10'" 3 - INTERRUPTED BY OPERATOR (JES2) OPERATOR RESTARTED DATA SET WITH DESTINATION (JES3)
		.... 1...		SMF6OR	"X'08'" 4 - RESTARTED BY OPERATOR
		.... .1..		SMF6ROR	"X'04'" 5 - CONT OF INTERRUPTED GROUP (JES2) RECEIVED OP RESTARTED DS(JES3)
		.... ..1.		SMF6OSS	"X'02'" 6 - CARRIAGE OVERRIDEN BY OPER(JES2) OPERATOR STARTED WITH SINGLE SPACE(JES3)
		.... ...1		SMF6INT	"X'01'" 7 - PUNCH WAS INTERPRETED



Table 212. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
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
		.... ...1		SMF6LEV2	"X'01'" THIS VARIABLE IS FOR JES2 TO SET THE LEVEL INDICATOR BITS.
		.... ..11		SMF6J2L3	"X'03'" THIS VARIABLE IS FOR JES2 TO SET THE LEVEL INDICATOR BITS.
		.... .1..		SMF6J2L4	"X'04'" THIS VARIABLE IS FOR JES2 TO SET THE LEVEL INDICATOR BITS FOR SECURITY SUPPORT
		.... ...1		SMF6LEV3	"X'01'" THIS VARIABLE IS FOR JES3 TO SET THE LEVEL INDICATOR BITS.
		.... ..11		SMF6J3L3	"X'03'" THIS VARIABLE IS FOR JES3 TO SET THE LEVEL INDICATOR BITS.
		.... .1..		SMF6J3L4	"X'04'" THIS VARIABLE IS FOR JES3 TO SET THE LEVEL INDICATOR BITS FOR SECURITY SUPPORT INDICATOR BITS.
		.... .1.1		SMF6LEV4	"X'05'" MVS/JES2 RELEASE 4.1.0
		.... ..11.		SMF6LEV6	"X'06'" PSF/MVS RELEASE 3.1.0
		.... .111		SMF6LEV7	"X'07'" Z/OS RELEASE V1R5
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	SMF6SI22(0)	SIZE OF JES2 SMF6 RECORD EXCLUDING OPTIONAL EXTENSIONS
102	(66)	BITSTRING	0	SMF6SI23(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
		.... ..1.		SMF6CCE	"X'02'" 6 - SOME 1ST CHAR CONTROL DATA BAD, DEFAULT USED
		.... ...1		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



Table 212. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
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
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					
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
		1... ....		SMF6BTS	"X'80'" THE BTSS WAS USED FOR OUTPUT
		.1.. ....		SMF60PJ	"X'40'" OPTCD=J WAS USED FOR OUTPUT
		..1. ....		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
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.					
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	SMF60TOK	OUTPUT GROUP TOKEN
234	(EA)	BITSTRING	1	SMF6DEND(0)	END OF ROUTING SECTION
234	(EA)	BITSTRING	1	SMF6DSIZ(0)	SIZE OF ROUTING SECTION



Table 212. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
ENHANCED SYSOUT SECTION					
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
	1... ..			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. MOVED SMF6LN4 TO AOPSMF6 2 MOVED SMF6BNLN TO AOPSMF6 2 MOVED SMF6BNN0 TO AOPSMF6 4 MOVED SMF6LN6 TO AOPSMF6 11
METHOD OF ACCESS PLAS: %INCLUDE SYSLIB(AOPSMF6) ASSEMBLER: AOPSMF6 NOTES: PL/AS - INCLUDED BY IFASMFR BAL - CALLED FROM IFASMFR THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF PORTIONS OF THE SMF TYPE 6 RECORD. THE SECTIONS ARE: SECOND EXTENSION - APA SECTION - WRITTEN BY PSF (SMF6SBS=7) MULTI-BINS HEADER SECTION - WRITTEN BY PSF (SMF6SBS=7) MULTI-BINS COUNTER SECTION - WRITTEN BY PSF (SMF6SBS=7) FILE TRANSFER SECTION - WRITTEN BY IP PRINTWAY (SMF6SBS=9) 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					
72	(48)	BITSTRING	2	SMF6LN4	LENGTH SECOND EXTENSION INCLUDING THIS FLD
74	(4A)	BITSTRING	2	SMF6BN0F	OFFSET TO BIN SECTION
74	(4A)	BITSTRING	2	SMF6RES	RESERVED - REDEFINES SMF6BN0F
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	SMF6LPSG	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 PAGEDEFS USED
112	(70)	BITSTRING	4	SMF6FMDF	NUMBER OF FORMDEFS USED
116	(74)	BITSTRING	1	SMF6BIN	FLAG BYTE
	1... ..			SMF6BIN1	"X'80'" BIN1 WAS USED FOR ANY PART OF THE DATA SET
	.1... ..			SMF6BIN2	"X'40'" BIN2 WAS USED FOR ANY PART OF THE DATA SET



Table 212. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1. ....		SMF6BIN3	"X'20'" BIN3 WAS USED FOR ANY PART OF THE DATA SET
		...1 ....		SMF6BIN4	"X'10'" BIN4 WAS USED FOR ANY PART OF THE DATA SET
117	(75)	BITSTRING	1	SMF6PGOP	FLAG BYTE
		1... ....		SMF6DUPS	"X'80'" STANDARD DUPLEX WAS USED FOR ANY PART OF DS
		.1.. ....		SMF6DUPT	"X'40'" TUMBLE DUPLEX WAS USED FOR ANY PART OF DS
		..1. ....		SMF6SYSA	"X'20'" KEYWORD SYSAREA=Y
		...1 ....		SMF6DPGL	"X'10'" KEYWORD DPAGELBL=Y
		.... 1...		SMF6SUCC	"X'08'" PRINT OPERATION WAS SUCCESSFUL
		.... .1..		SMF6SPGL	"X'04'" KEYWORD SPAGELBL=Y
		.... ..1.		SMF6SOER	"X'02'" ERROR OCCURRED PROCESSING SECURITY OVERLAY
		.... ...1		SMF6IGER	"X'01'" IMAGE GENERATOR OVERRUN ERROR OCCURRED
118	(76)	BITSTRING	1	SMF6FLG3	FLAG BYTE
		1... ....		SMF6SLIG	"X'80'" SECURITY LABEL INTEGRITY GUARANTEED
		.1.. ....		SMF6JHPP	"X'40'" THE JOB HEADER PAGE WAS PRINTED
		..1. ....		SMF6JTPP	"X'20'" THE JOB TRAILER PAGE WAS PRINTED
		...1 ....		SMF6DPLS	"X'10'" DATA PAGE LABELING WAS SUPPRESSED
		.... 1...		SMF6UPAS	"X'08'" USER PRINTABLE AREA WAS SUPPRESSED
119	(77)	BITSTRING	1	SMF6APAL	LEVEL INDICATOR FOR APA SECTION
		.... ...1		SMF6APA1	"X'01'" INITIAL LEVEL OF APA SECTION
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
MULTI-BINS HEADER SECTION (OFFSET DEFINED BY SMF6BNOF)					
8	(8)	BITSTRING	2	SMF6BNLN	LENGTH BINS SECTION INCLUDING THIS FLD
10	(A)	BITSTRING	2	SMF6BNUM	NUMBER OF COUNTERS ENTRIES



Table 212. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
MULTI-BINS COUNTER SECTION - FOLLOWS "MULTI-BIN" HEADER SECTION					
8	(8)	BITSTRING	1	SMF6BNN0	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
FILE TRANSFER SECTION					
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)	BITSTRING	1	SMF6FTL	LEVEL INDICATOR FOR FILE TRANSFER SECTION
		.... ...1		SMF6FTL1	"X'01'" Z/OS V1R5
83	(53)	CHARACTER	9		RESERVED
92	(5C)	BITSTRING	2	SMF6URIL	Length of Host URI
94	(5E)	BITSTRING	2	SMF6PQLN	Length of Print Queue Name
96	(60)	CHARACTER	24	SMF6PRTQ	Print Queue Name
120	(78)	CHARACTER	1	SMF6URI(0)	Target Device URI
120	(78)	BITSTRING	1	SMF6TEND(0)	END OF FILE TRANSFER SECTION
120	(78)	BITSTRING	0	SMF6TSIZ(0)	SIZE OF FILE TRANSFER SECTION

Table 213. Structure SMF

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SMF	, DSECT may be destroyed



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
START OF SPECIFICATIONS MACRO-NAME = IFASMFR PROPRIETARY STATEMENT = LICENSED MATERIALS - PROPERTY OF IBM 5655-ZOS COPYRIGHT IBM CORP. 1977, 2025 STATUS= HBB77F0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: THIS MACRO MAPS 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 IFASMFRD 1152-2047 (update as required) 01 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. 01 NOTES: none END OF SPECIFICATIONS 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) START OF SPECIFICATIONS 01 MACRO-NAME = IFASMFR2 01 PROPRIETARY STATEMENT= PROPRIETARY STATEMENT LICENSED MATERIALS - PROPERTY OF IBM 5650-ZOS COPYRIGHT IBM CORP. 1982, 2019 STATUS= HBB77C0 END OF PROPRIETARY STATEMENT EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: IFASMFR2 maps SMF records in the range 20-27. %GOTO IFASMFR2B; END OF SPECIFICATIONS %GOTO IFAL20; START OF SPECIFICATIONS					
01 DESCRIPTIVE NAME: JES SMF SPOOL offload record 02 ACRONYM: IAZSMF24 01 MACRO NAME: IAZSMF24 01 DSECT NAME: N/A 01 LABEL PREFIX: SMF24 01 COMPONENT ID: JES Common (SC141) 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: END OF SPECIFICATIONS SWITCH TO DECIDE WHETHER TO GENERATE EQUATES FOR WRITING SMF RECORDS					
8	(8)	X'8'	0	SMFRCD24	"*" START OF RECORD
8	(8)	X'8'	0	SMF24PTR	"*" HEADER LENGTH
8	(8)	BITSTRING	1	SMF24BHD(0)	BEGINING BASE+HDR
8	(8)	CHARACTER	2	SMF24LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF24SEG	SEGMENT DESCRIPTOR
BEGINNING OF JMR OR HASP SMF RECORD					
12	(C)	BITSTRING	1	SMF24FLG	HEADER FLAG BYTE
		.1... ....		SMF24STS	"B'01000000'" SUBTYPES USED



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
13	(D)	BITSTRING	1	SMF24RTY	RECORD TYPE
14	(E)	BITSTRING	4	SMF24TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)		4	SMF24DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF24SID	SYSTEM IDENTIFICATION
HEADER FOR HASP SUBSYS RECORD TYPE 24					
22	(16)	X'18'	0	SMFJ24	"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	SMF240PS	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	SMF240GN	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	SMF240SP	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	SMF240SW	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	SMF240SA	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
BEGINNING OF JES2 PRODUCT SECTION					
76	(4C)	BITSTRING	1	SMF24PRO(0)	Start of product section
76	(4C)	CHARACTER	2	SMF24PVR	RECORD VERSION
78	(4E)	CHARACTER	8	SMF24PNM	PRODUCT NAME
86	(56)	BITSTRING	2	SMF24RS2	RESERVED
GENERAL SECTION FOR SPOOL OFFLOAD DEVICES					
88	(58)	BITSTRING	1	SMF24GEN(0)	Start of general section
88	(58)	BITSTRING	2	SMF24GLN	LENGTH OF GENERAL SECTION
90	(5A)	BITSTRING	1	SMF24BCF	BUFFER CONTINUATION FLAG



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ....		SMF24FST	"B'10000000'" FIRST SMF BUFFER FOR JOB
		.1.. ....		SMF24CON	"B'01000000'" SMF BUFFER CONTINUED
		..1. ....		SMF24LST	"B'00100000'" LAST SMF BUFFER - END OF JOB
91	(5B)	BITSTRING	1	SMF24EOJ	END OF JOB FLAG
		1... ....		SMF24COM	"B'10000000'" JOB COMPLETELY OFFLOADED
		.1.. ....		SMF24SDS	"B'01000000'" JOB COMPLETED WITH SKIPPED DATA SETS
		..1. ....		SMF24INJ	"B'00100000'" INCOMPLETE JOB OFFLOADED
		...1 ....		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
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					
192	(C0)	BITSTRING	1	SMF24JBS(0)	Start of job selection section
192	(C0)	BITSTRING	2	SMF24LN1	LENGTH OF JOB SECTION
194	(C2)	BITSTRING	1	SMF24JFG	JOB FLAGS
		1... ....		SMF24JHL	"B'10000000'" HELD JOB
		.1.. ....		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	8	SMF248CL	8 CHAR JOB CLASS
240	(F0)	CHARACTER	1	SMF24EJS(0)	End of job selection
SYSOUT SELECTION CRITERIA SECTION					
192	(C0)	BITSTRING	1	SMF24SOS(0)	Start of SYSOUT selection section
192	(C0)	BITSTRING	2	SMF24LN2	LENGTH OF SYSOUT SECTION
194	(C2)	BITSTRING	1	SMF24SFG	SYSOUT FLAGS
		1... ....		SMF24SHL	"B'10000000'" HELD SYSOUT
		.1.. ....		SMF24SBT	"B'01000000'" BURSTED SYSOUT
		..1. ....		SMF24SJH	"B'00100000'" HELD JOB
		...1 ....		SMF24INC	"B'00010000'" INCOMPLETE DATA SET



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		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
252	(FC)	X'68'	0	SMF24LN	"SMF24DRD+L'SMF24DRD-SMF24GLN" LEN OF GENERAL SEC
252	(FC)	X'30'	0	SMF24L1	"SMF248CL+L'SMF248CL-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'E8'	0	SMF24AOF	"SMF24SOF+SMF24L1" Offset to aff section
<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>					
253	(FD)	BITSTRING	1	SMF24ESS(0)	Start of ESS section
253	(FD)	BITSTRING	2	SMF24LN3	LENGTH OF ESS SECTION
255	(FF)	BITSTRING	4	SMF24SGT	SEGMENT IDENTIFIER
259	(103)	BITSTRING	1	SMF24IND	ESS SECTION INDICATOR
		1... ....		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
<p>Enhanced SYSTEM AFFINITY suport 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.</p>					



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
240	(F0)	BITSTRING	1	SMF24ESA(0)	Start of Enhanced aff sect
240	(F0)	BITSTRING	2	SMF24LS4	Length of sysaff section
242	(F2)	BITSTRING	2		Reserved for future IBM use
244	(F4)	BITSTRING	4	SMF24SAN	Number of system affinities
248	(F8)	BITSTRING	4	SMF24LN4	Length of system name
252	(FC)	CHARACTER	1	SMF24SAC(0)	Start of system aff. names
252	(FC)	X'C'	0	SMF24SAL	"*-SMF24LS4" Length of the fixed portion of the SYS. AFF SECTION

```

START OF SPECIFICATIONS
MACRO-NAME = IFASMFR
PROPRIETARY STATEMENT =
LICENSED MATERIALS - PROPERTY OF IBM
5655-ZOS COPYRIGHT IBM CORP. 1977, 2025
STATUS= HBB77F0
EXTERNAL CLASSIFICATION: PI
END OF EXTERNAL CLASSIFICATION:
THIS MACRO MAPS 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
  IFASMFRD 1152-2047 (update as required)
01 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.

01 NOTES: none
END OF SPECIFICATIONS
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)
START OF SPECIFICATIONS
01 MACRO-NAME = IFASMFR2
01 PROPRIETARY STATEMENT=
  PROPRIETARY STATEMENT
  LICENSED MATERIALS - PROPERTY OF IBM
  5650-ZOS
  COPYRIGHT IBM CORP. 1982, 2019
  STATUS= HBB77C0
  END_OF_PROPRIETARY_STATEMENT
EXTERNAL CLASSIFICATION: PI
END OF EXTERNAL CLASSIFICATION:
IFASMFR2 maps SMF records in the range 20-27.
  %GOTO IFASMFR2B;
  END OF SPECIFICATIONS
  %GOTO IFAL20;
START OF SPECIFICATIONS

```

```

01 DESCRIPTIVE NAME: JES SMF purge record
02 ACRONYM: IAZSMF26
01 MACRO NAME: IAZSMF26
01 DSECT NAME: N/A
01 LABEL PREFIX: SMF26
01 COMPONENT ID: JES Common (SC141)
01 EXTERNAL CLASSIFICATION: PI
01 END OF EXTERNAL CLASSIFICATION:
  END OF SPECIFICATIONS
THIS RECORD IS WRITTEN WHEN A JOB IS READY TO BE PURGED FOR
BOTH FOREGROUND AND BACKGROUND JOBS IN THE SYSTEM.

```



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	X'8'	0	SMFRCD26	"*" START OF RECORD
8	(8)	X'8'	0	SMF26PTR	"*" HEADER SEGMENT (LGTH 46 WITHOUT RDW)
8	(8)	BITSTRING	1	SMF26BHD(0)	BEGINING BASE+HDR
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)
	.... .1.			SMF26HSP	"X'0002'" JES2 ID
	.... .1.1			SMF26ASP	"X'0005'" JES3 ID
56	(38)	BITSTRING	2	SMF26IND	INDICATORS
56	(38)	BITSTRING	0	SMF26DES	"X'8000'" DESCRIPTIVE SECTION PRESENT
56	(38)	BITSTRING	0	SMF26EVT	"X'4000'" EVENT SECTION PRESENT
56	(38)	BITSTRING	0	SMF26ATU	"X'2000'" ACTUALS SECTION PRESENT
56	(38)	BITSTRING	0	SMF26NTW	"X'1000'" JES2 Network section present
56	(38)	BITSTRING	0	SMF26J2R	"X'0800'" JES2 ROUTING SECTION PRESENT
56	(38)	BITSTRING	0	SMF26JXP	"X'0400'" JES PRINTER SECTION PRESENT
56	(38)	BITSTRING	0	SMF26R02	"X'0200'" Reserved
56	(38)	BITSTRING	0	SMF26ACP	"X'0100'" Triplets Section present
BEGINNING OF DESCRIPTIVE SECTION					
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)
	1... ....			SMF26BCH	"X'80'" BIT 0 - BACKGROUND BATCH
	.1.. ....			SMF26FTS	"X'40'" 1 - FOREGROUND TIME SHARING
	..1. ....			SMF26STK	"X'20'" 2 - SYSTEM TASK
	...1 ....			SMF26NOJ	"X'10'" 3 - NO JOURNAL OPTION
	.... 1...			SMF26NOU	"X'08'" 4 - NO OUTPUT OPTION
	.... .1..			SMF26SCN	"X'04'" 5 - TYPRUN=SCAN
	.... ..1.			SMF26CPY	"X'02'" 6 - TYPRUN=COPY
	.... ...1			SMF26JBF	"X'01'" 7 - RESTART=Y
62	(3E)	BITSTRING	1	SMF26IN3	ADDITIONAL JOB INFORMATION(JES3 ONLY)



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ....		SMF26DJC	"X'80'" BIT 0 - DEPENDENT JOB(/ NET JOB PROCESSED)
		.1.. ....		SMF26DLJ	"X'40'" 1 - JOB SPECIFIED DEADLINE SCHEDULING
		..1. ....		SMF26DLM	"X'20'" 2 - DEADLINE JOB MET DEADLINE
		...1 ....		SMF26PRJ	"X'10'" 3 - / PROCESS STMT PROCESSED
		.... 1...		SMF26NJX	"X'08'" 4 - JOB LEFT SYSTEM VIA NJP(NETWORK JOB PROCESSING)
		.... .1..		SMF26NJE	"X'04'" 5 - JOB ENTERED SYSTEM VIA NJP
		.... ..1.		SMF26DJ0	"X'02'" 6 - JOB LEFT SYSTEM VIA DJ(DUMP JOB)
		.... ...1		SMF26DJE	"X'01'" 7 - JOB ENTERED SYSTEM VIA DJ
63	(3F)	BITSTRING	1	SMF26INF	JOB INFORMATION
		1... ....		SMF26JCP	"X'80'" 0 - JOB PRIORITY EXTERNALLY ASSIGNED (JES2-VIA PRIORITY STMT) (JES3-VIA PRY PARM ON JOB STMT)
		.1.. ....		SMF26STU	"X'40'" 1 - SETUP JOB (JES2- SETUP STMT PROCESSED) (JES3-PROCESSED BY PREEXEC SETUP)
		..1. ....		SMF26TRH	"X'20'" 2 - JOB HELD VIA TYPERUN=HOLD
		...1 ....		SMF26NLG	"X'10'" 3 - JOB REQUESTED NO JES JOB LOG(JES2)
		.... 1...		SMF26XBC	"X'08'" 4 - EXEC BATCHING JOB (JES2 ONLY)
		.... .1..		SMF26EIR	"X'04'" 5 - JOB ENTERED VIA INTERNAL RDR
		.... ..1.		SMF26MRE	"X'02'" 6 - JOB WAS RERUN BY JES
		.... ...1		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)
		1... ....		SMF26JDL	"X'80'" Job delayed (at least once) due to duplicate jobname
		.1.. ....		SMF26JOL	"X'40'" Job purged as a result of spool offload
		..1. ....		SMF26LPN	"X'20'" Job went thru unspun in its lifetime
		...1 ....		SMF26XWR	"X'10'" Job had at least one JOE purged due to PSO/SAPI
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



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
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
128	(80)	X'84'	0	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'	0	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)		4	SMF26DDT	DEADLINE SCHEDULE DATE
184	(B8)	CHARACTER	8	SMF26CLN	JOB CLASS NAME
BEGINNING OF EVENT SECTION					
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)		4	SMF26RPD	READER STOP DATE
70	(46)	BITSTRING	4	SMF26CST	CONVERTER START TIME
74	(4A)		4	SMF26CSD	CONVERTER START DATE
78	(4E)	BITSTRING	4	SMF26CPT	CONVERTER STOP TIME
82	(52)		4	SMF26CPD	CONVERTER STOP DATE
86	(56)	BITSTRING	4	SMF26XST	EXECUTION START TIME
90	(5A)		4	SMF26XSD	EXECUTION START DATE
94	(5E)	BITSTRING	4	SMF26XPT	EXECUTION STOP TIME
98	(62)		4	SMF26XPD	EXECUTION STOP DATE
102	(66)	BITSTRING	4	SMF260ST	OUTPUT PROCESSOR START TIME
106	(6A)		4	SMF260SD	OUTPUT PROCESSOR START DATE
110	(6E)	BITSTRING	4	SMF260PT	OUTPUT PROCESSOR STOP TIME
114	(72)		4	SMF260PD	OUTPUT PROCESSOR STOP DATE



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
BEGINNING OF ACTUALS SECTION JES2 creates the Actuals section only up to (and including) SMF260ID. 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.					
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	SMF260ID	OUTPUT PROCESSOR SYSTEM ID
90	(5A)	CHARACTER	42	SMF26JAF	Job accounting fields - maximum length 42 - filled in by JES3 only
132	(84)	BITSTRING	4	NJEJMR(0)	
132	(84)	CHARACTER	8	NJEJMRID	
140	(8C)	ADDRESS	2	NJEJMRLN	- Length of NJEJMR
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.					
142	(8E)	ADDRESS	2	NJEJOBNO	- Origin node job number (compatible) - contains FFFF if NJEJOBNO > 65534
144	(90)	CHARACTER	8	NJEJOBNM	- Job name
152	(98)	CHARACTER	8	NJEJEXQ	- 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	NJEJEXU	- Execution user id
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.					
228	(E4)	BITSTRING	4	NJETRANS(0)	Maintained for compile compatibility
228	(E4)	ADDRESS	4	NJEJOBNOX	Origin node job number, extended
232	(E8)	BITSTRING	4	NJEJMREN(0)	
232	(E8)	BITSTRING	0	NJEJMRSZ(0)	
232	(E8)	CHARACTER	4	SMF26SRC	NUMBER OF SPOOL RECORDS
Beginning of JES2 Network section					
58	(3A)	BITSTRING	2	SMF26LN4	LENGTH OF THIS SECTION(INCLUDING SELF)



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
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)		4	SMF26NSD	JOB TRANSMITTER START DATE
74	(4A)	BITSTRING	4	SMF26NPT	JOB TRANSMITTER STOP TIME
78	(4E)		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
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
<p>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.</p>					
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)	SIGNED	4	SMF26OJC	Offset of Job Correlator section
80	(50)	BITSTRING	2	SMF26LJC	Length of Job Correlator section
82	(52)	BITSTRING	2	SMF26NJC	Number of Job Correlator sections
82	(52)	X'1A'	0	SMF26ECS	"SMF26OEC-SMF26LN7" Length of triplet section prior to Comp/Encr section



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
84	(54)	SIGNED	4	SMF260EC	Offset of Compression/encryption sect
88	(58)	BITSTRING	2	SMF26LEC	Length of Compression/encryption sect
90	(5A)	BITSTRING	2	SMF26NEC	Number of Compression/encryption sect
90	(5A)	X'22'	0	SMF26AIS	"SMF260AI-SMF26LN7" Length of triplet section prior to AIS section
92	(5C)	SIGNED	4	SMF260AI	Offset of AI-Infused Selection section
96	(60)	BITSTRING	2	SMF26LAI	Length of AI-Infused Selection section
98	(62)	BITSTRING	2	SMF26NAI	Number of AI-Infused Selection sects
98	(62)	X'2A'	0	SMF26MSC	"SMF260MC-SMF26LN7" Length of triplet section prior to MISC. section
100	(64)	SIGNED	4	SMF260MC	Offset of Miscellaneous section
104	(68)	BITSTRING	2	SMF26LMC	Length of Miscellaneous section
106	(6A)	BITSTRING	2	SMF26NMC	Number of Miscellaneous sections
108	(6C)	CHARACTER	64	SMF26JCR	Job correlator
172	(AC)	CHARACTER	8	SMF26WCL	Service class queue name
180	(B4)	CHARACTER	8	SMF26WOC	Original Service class
188	(BC)	BITSTRING	1	SMF26WIN	Indicators
		1... ....		SMF26WLM	"B'10000000'" Job ran in MODE=WLM
		.1.. ....		SMF26SJB	"B'01000000'" Job ran because of the \$S J JES2 command or the *F,J=job,RUN JES3 command
		..1. ....		SMF26CON	"B'00100000'" Job within concurrent set
189	(BD)	CHARACTER	8	SMF26WJC	Eight character job class
197	(C5)	CHARACTER	16	SMF26WSE	Scheduling environment (SCHENV)
213	(D5)	BITSTRING	8	SMF26BYU	Total job uncompressed byte count
221	(DD)	BITSTRING	8	SMF26BYC	Total job compressed byte count
229	(E5)	BITSTRING	4	SMF26CCT	Compressed data set count
233	(E9)	BITSTRING	4	SMF26ECT	Encrypted data set count
237	(ED)	BITSTRING	6	SMF26UNL	Holduntil ETOD timestamp
243	(F3)	BITSTRING	6	SMF26DLN	Deadline ETOD timestamp
249	(F9)	BITSTRING	8	SMF26JTK	Jobtoken
257	(101)	BITSTRING	4	SMF26JT1	Local job signature one
261	(105)	BITSTRING	4	SMF26JT2	Local job signature two
265	(109)	BITSTRING	8	SMF26TZ0	Time Zone Offset, in TOD format, of the system that created the SMF26 rec
273	(111)	BITSTRING	2	SMF26LN8	Length of Accounting Section
275	(113)	SIGNED	1	SMF26NRA	Number of accounting pairs that follow
Accounting pairs are of the form: AL1(length),C'string of length "length" A length of 0 indicates an omitted field					
276	(114)	SIGNED	1	SMF26AC1(0)	
LENGTH EQUATES					
276	(114)	X'5E'	0	SMF26L1	"SMF26PDD+L'SMF26PDD-SMF26LN1" DESCRIPTIVE SECT LEN



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
276	(114)	X'3C'	0	SMF26L2	"SMF26OPD+L'SMF26OPD-SMF26LN2" EVENT SECTION LENGTH
276	(114)	X'20'	0	SMF26L3	"SMF26OID+L'SMF26OID-SMF26LN3" ACTUALS SECTION LEN
276	(114)	X'68'	0	SMF26L4	"SMF26NU+L'SMF26NU-SMF26LN4" NETWORK SECTION LEN
276	(114)	X'E'	0	SMF26L5	"SMF26PUD+L'SMF26PUD-SMF26LN5" ROUTING SECTION LEN
276	(114)	X'1A'	0	SMF26L6	"SMF26EFM+L'SMF26EFM-SMF26LN6" PRINT SECTION LEN
276	(114)	X'32'	0	SMF26L7	"SMF26NMC+L'SMF26NMC-SMF26LN7" Triplets sect len
276	(114)	X'29'	0	SMF26L9	"SMF26WSE+L'SMF26WSE-SMF26WCL" WLM section len
276	(114)	X'40'	0	SMF26LA	"L'SMF26JCR" Job corr sect len
276	(114)	X'18'	0	SMF26LB	"SMF26ECT+L'SMF26ECT-SMF26BYU" Enc/ comp sect len
276	(114)	X'1C'	0	SMF26LC	"SMF26JT2+L'SMF26JT2-SMF26UNL" AIS section lengt
276	(114)	X'8'	0	SMF26LD	"L'SMF26TZ0" Misc. section len
<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>					
276	(114)	X'D7'	0	SMF26L10	"SMF26L7+SMF26L9+SMF26LA+SMF26LB+SMF26LC+SMF 26LD" Triplet + WLM + Job corr + Enc/comp + AIS + Misc. lengths
276	(114)	X'10'	0	SMF26SZ1	"L'SMF26JBN+L'SMF26RST+L'SMF26RSD" LENGTH OF JOB NAME, AND RDR START TIME AND DATE FOR MOVE
276	(114)	X'4C'	0	SMF26SZ2	"SMF26NLN+L'SMF26NLN-SMF26NID" LEN OF NETWORK FIELDS
276	(114)	X'8'	0	SMF26SZ3	"L'SMF26RPT+L'SMF26RPD" LEN OF RDR FIELDS FOR MOVE
276	(114)	X'4'	0	SMF26SZ4	"L'SMF26PRR+L'SMF26PUR" LEN OF PRPU ROUTES FOR MOVE
276	(114)	X'4F'	0	SMF26SZ5	"SMF26NU+L'SMF26NU-SMF26NAC-1" LEN OF NET FIELDS
276	(114)	X'32'	0	SMF26LN	"SMF26IND+L'SMF26IND-SMF26LEN" LEN OF BASE + HEADER
276	(114)	X'17C'	0	SMF26TLN	"SMF26LN+SMF26L1+SMF26L2+SMF26L3+SMF26L4+SMF 26L5+SMF26L6" TOTAL LENGTH OF TYPE 26 RECORD



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<pre> START OF SPECIFICATIONS MACRO-NAME = IFASMFR PROPRIETARY STATEMENT = LICENSED MATERIALS - PROPERTY OF IBM 5655-ZOS COPYRIGHT IBM CORP. 1977, 2025 STATUS= HBB77F0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: THIS MACRO MAPS 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 IFASMFRD 1152-2047 (update as required) 01 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.  01 NOTES: none END OF SPECIFICATIONS THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS IFASMFR &amp;RECTYPE NOTE: VALUES FOR &amp;RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1) START OF SPECIFICATIONS 01 MACRO-NAME = IFASMFR4 PROPRIETARY STATEMENT = LICENSED MATERIALS - PROPERTY OF IBM 5650-ZOS COPYRIGHT IBM CORP. 1979, 2019 STATUS = HBB77C0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: IFASMFR4 maps SMF records in the range 37-46. %GOTO IFASMFR4B; END OF SPECIFICATIONS %GOTO IFAL37; START OF SPECIFICATIONS 01 DESCRIPTIVE NAME: JES SMF subsystem start record 02 ACRONYM: IAZSMF43 </pre>					
<pre> 01 MACRO NAME: IAZSMF43 01 DSECT NAME: N/A 01 LABEL PREFIX: SMF43 01 COMPONENT ID: JES Common (SC141) 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: END OF SPECIFICATIONS SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC SUBSYSTEM START RECORD TYPE 43 </pre>					
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	1	SMF43BAS(0)	BEGINING OF BASE SECTION
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



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
18	(12)		4	SMF43DTE	DATE FROM TIME MACRO
22	(16)	CHARACTER	4	SMF43SID	SYSTEM IDENTIFIER
SUBSYSTEM IDENTIFICATION SECTION					
26	(1A)	BITSTRING	2	SMF43SBS	SUBSYSTEM IDENTIFIER
		.... ..1.		SMF43HSP	"X'0002'" JES2 ID
		.... ..1.1		SMF43ASP	"X'0005'" JES3 ID 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
JES2 AND JES3 COMMON SECTION					
32	(20)	BITSTRING	1	SMF43J2(0)	BEGINING OF JES2 SECTION
32	(20)	BITSTRING	2	SMF43RV1	RESV
34	(22)	BITSTRING	1	SMF43RST	START RECORD FLAGS
		1... ....		SMF\$ESYS	"X'80'" IF 1 THEN SMF43EID FIELD IS RESTART SYSTEM ID
		1... ....		SMF43CLD	"X'80'" COLD START (JES3)
		.1... ....		SMF43WRM	"X'40'" WARM START
		..1. ....		SMF43HOT	"X'20'" HOT START
		...1 ....		SMF43ANL	"X'10'" QUEUE ANALYSIS REQUIRED
		.... 1...		SMF43GBL	"X'08'" GLOBAL SYSTEM
		.... .1..		SMF43LCL	"X'04'" LOCAL SYSTEM
		.... ..1.		SMF43REF	"X'02'" Configuration refresh was requested
		.... ...1		SMF43DSI	"X'01'" DYNAMIC SYSTEM INTERCHANGE
34	(22)	X'23'	0	SMF43SBG	"*" JES2,JES3 UNCOMMON SECTIONS
JES2 SECTION					
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
JES3 SECTION					
35	(23)	BITSTRING	1	SMF43JS3(0)	BEGINING OF JES3 SECTION
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'	0	SMF43UN4	"SMF43ORG,4" 4-Digit Device Number
38	(26)	X'26'	0	SMF43UNT	"SMF43ORG,3" 3-Digit Device Number
46	(2E)	CHARACTER	4	SMF43PJ3	JES3 PROCEDURE NAME



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
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
SS06 SECTION					
32	(20)	BITSTRING	1	SMF43PC0(0)	BEGINING OF SS06 SECTION
32	(20)	CHARACTER	8	SMF43PRC	SS06 START PROC NAME
40	(28)	CHARACTER	73	SMF43INT	INITIALIZATION
LENGTH EQUATES					
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
<pre> START OF SPECIFICATIONS MACRO-NAME = IFASMFR PROPRIETARY STATEMENT = LICENSED MATERIALS - PROPERTY OF IBM 5655-ZOS COPYRIGHT IBM CORP. 1977, 2025 STATUS= HBB77F0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION:   THIS MACRO MAPS 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     IFASMFRD 1152-2047 (update as required) 01 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.  01 NOTES: none END OF SPECIFICATIONS THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS   IFASMFR &amp;RECTYPE NOTE: VALUES FOR &amp;RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1) START OF SPECIFICATIONS 01 MACRO-NAME = IFASMFR4 PROPRIETARY STATEMENT = LICENSED MATERIALS - PROPERTY OF IBM 5650-ZOS COPYRIGHT IBM CORP. 1979, 2019 STATUS = HBB77C0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION:   IFASMFR4 maps SMF records in the range 37-46.   %GOTO IFASMFR4B; END OF SPECIFICATIONS   %GOTO IFAL37; START OF SPECIFICATIONS 01 DESCRIPTIVE NAME: JES SMF subsystem stop record 02 ACRONYM: IAZSMF45 </pre>					



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
01 MACRO NAME: IAZSMF45 01 DSECT NAME: N/A 01 LABEL PREFIX: SMF45 01 COMPONENT ID: JES Common (SC141) 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: END OF SPECIFICATIONS SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC SUBSYSTEM STOP RECORD TYPE 45					
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	1	SMF45J2(0)	BEGINING OF JES2 REC
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
SUBSYSTEM IDENTIFICATION SECTION					
26	(1A)	BITSTRING	2	SMF45SBS	SUBSYSTEM IDENTIFIER
		.... ..1.		SMF45HSP	"X'0002'" JES2 ID
		.... ..1.1		SMF45ASP	"X'0005'" JES3 ID 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
JES2 SECTION					
32	(20)	BITSTRING	2	SMF45IND	INDICATORS
		1... ..		SMF45ATM	"X'80'" BIT 0 ABNORMAL TERMINATION 1-15 RESERVED
34	(22)	BITSTRING	2	SMF45JCC	JES2 COMPLETION CODE
JES3 SECTION					
32	(20)	BITSTRING	1	SMF45JS3(0)	BEGINING OF JES2 SECTION
32	(20)	BITSTRING	1	SMF45FG1	STOP RECORD FLAGS
		1... ..		SMF45ABN	"X'80'" SUBSYSTEM ENDED DUE TO ABEND
		.1... ..		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



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
SS06 SECTION					
32	(20)	BITSTRING	1	SMF45PC0(0)	BEGINING OF SS06 SECTION
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
LENGTH EQUATES					
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
START OF SPECIFICATIONS MACRO-NAME = IFASMFR PROPRIETARY STATEMENT = LICENSED MATERIALS - PROPERTY OF IBM 5655-Z0S COPYRIGHT IBM CORP. 1977, 2025 STATUS= HBB77F0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: THIS MACRO MAPS 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 IFASMFRD 1152-2047 (update as required) 01 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. 01 NOTES: none END OF SPECIFICATIONS 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) START OF SPECIFICATIONS 01 MACRO-NAME = IFASMFR5 COPYRIGHT = 5650-Z0S COPYRIGHT IBM CORP., 1979, 2019 LICENSED MATERIALS - PROPERTY OF IBM STATUS = HBB77C0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: IFASMFR5 maps SMF records in the range 47-54. %GOTO IFASMFR5B; END OF SPECIFICATIONS %GOTO IFAL47; START OF SPECIFICATIONS 01 DESCRIPTIVE NAME: JES SMF subsystem event start 02 ACRONYM: IAZSMF47 01 MACRO NAME: IAZSMF47					



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
01 DSECT NAME: N/A 01 LABEL PREFIX: SMF47 01 COMPONENT ID: JES Common (SC141) 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: END OF SPECIFICATIONS SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC SUBSYSTEM EVENT START RECORD TYPE 47					
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
SUBSYSTEM IDENTIFICATION SECTION					
26	(1A)	BITSTRING	2	SMF47SBS	SUBSYSTEM IDENTIFIER
		.... .1.		SMF47HSP	"X'0002'" JES2 ID
		.... .1.1		SMF47ASP	"X'0005'" JES3 ID 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
JES2 AND JES3 SECTION					
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
BEGINNING OF GENERAL SECTION					
34	(22)	BITSTRING	1	SMF47GN(0)	Beginning of general section
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
BEGINNING OF SIGNON MESSAGE SECTION THIS SECTION EXISTS ONLY FOR SIGNON EVENT STARTS					
60	(3C)	BITSTRING	1	SMF47A(0)	Message section for signon
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.



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
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
SS06 SECTION					
32	(20)	BITSTRING	1	SMF47PC0(0)	Beginning of SS06 section
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	SMF47ULK	"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)
LENGTH EQUATES					
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
32	(20)	X'34'	0	SMF47L4	"SMF47LN2-SMF47LEN" LEN OF RECORD - MESSAGE SECTION



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<pre> START OF SPECIFICATIONS MACRO-NAME = IFASMR PROPRIETARY STATEMENT = LICENSED MATERIALS - PROPERTY OF IBM 5655-ZOS COPYRIGHT IBM CORP. 1977, 2025 STATUS= HBB77F0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: THIS MACRO MAPS RECORDS IN THE RANGE 00-06. IT ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER RECORDS AS FOLLOWS: MACRO RECORDS IFASMR1 07-19 IFASMR2 20-27 IFASMR3 28-36 IFASMR4 37-46 IFASMR5 47-54 IFASMR6 55-69 IFASMR9 80-84 IFASMR8 85-103 IFASMRB 104-113 IFASMRFC 114-123 IFASMRD 124-127 IFASMRD 1152-2047 (update as required) 01 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(IFASMR), BUT ISN'T TO AVIOD A DIAGNOSTIC.  01 NOTES: none END OF SPECIFICATIONS THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS IFASMR &amp;RECTYPE NOTE: VALUES FOR &amp;RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1) START OF SPECIFICATIONS 01 MACRO-NAME = IFASMR5 COPYRIGHT = 5650-ZOS COPYRIGHT IBM CORP., 1979, 2019 LICENSED MATERIALS - PROPERTY OF IBM STATUS = HBB77C0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: IFASMR5 maps SMF records in the range 47-54. %GOTO IFASMR5B; END OF SPECIFICATIONS %GOTO IFAL47; START OF SPECIFICATIONS 01 DESCRIPTIVE NAME: JES SMF subsystem event stop record 02 ACRONYM: IAZSMF48 </pre>					
<pre> 01 MACRO NAME: IAZSMF48 01 DSECT NAME: N/A 01 LABEL PREFIX: SMF48 01 COMPONENT ID: JES Common (SC141) 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: END OF SPECIFICATIONS SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC SUBSYSTEM EVENT STOP RECORD TYPE 48 </pre>					
8	(8)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDRY
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



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
22	(16)	CHARACTER	4	SMF48SID	SYSTEM IDENTIFICATION
SUBSYSTEM IDENTIFICATION SECTION					
26	(1A)	BITSTRING	2	SMF48SBS	SUBSYSTEM IDENTIFIER
		.... ..1.		SMF48HSP	"X'0002'" JES2 ID
		.... ..1.1		SMF48ASP	"X'0005'" JES3 ID X'0006' SS06
28	(1C)	BITSTRING	2	SMF48RSV	RESV
30	(1E)	BITSTRING	2	SMF48LRR	LGTH OF REMAINDER OF RECORD (NOT INCLUDING THIS FIELD)
30	(1E)	X'20'	0	SMF48SBP	"*" SUBSYSTEM SECTION BEGINNING
JES2 AND JES3 COMMON SECTION					
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
JES2 SECTION					
60	(3C)	BITSTRING	4	SMF48IO	# EXCPS(NOT INCLUDING LINE REPEATS)
64	(40)	BITSTRING	4	SMF48NAK	# NAKS TO WRITE TEXT-NEG ACKNOWLEDGMENTS
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
83	(53)	X'1B'	0	SMF48B2L	"*-SMF48SBG" JES2 section length
JES3 SECTION					
60	(3C)	BITSTRING	28	SMF48XCP	EXCP COUNTS AND ERROR STATISTICS
60	(3C)	X'1C'	0	SMF48BXL	"*-SMF48SBG" EXCP section length
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



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
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)	X'2B'	0	SMF48B3L	"*-SMF48SBG" JES3 section length
103	(67)	BITSTRING	0	SMF48SIZ(0)	SIZE OF JES3 48 RECORD
SS06 SECTION					
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
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
LENGTH EQUATES					
88	(58)	X'4F'	0	SMF48L1	"SMF48LA4+L'SMF48LA4-SMF48LEN" Type 48 Record Len



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
88	(58)	X'14'	0	SMF48CT	"SMF48ERR+L'SMF48ERR-SMF48IO" LENGTH OF LINE EVENT COUNT SECTION
<pre> START OF SPECIFICATIONS MACRO-NAME = IFASMFR PROPRIETARY STATEMENT = LICENSED MATERIALS - PROPERTY OF IBM 5655-ZOS COPYRIGHT IBM CORP. 1977, 2025 STATUS= HBB77F0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: THIS MACRO MAPS 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   IFASMFRD 1152-2047 (update as required) 01 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.  01 NOTES: none END OF SPECIFICATIONS THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS   IFASMFR &amp;RECTYPE NOTE: VALUES FOR &amp;RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1) START OF SPECIFICATIONS 01 MACRO-NAME = IFASMFR5   COPYRIGHT =   5650-ZOS COPYRIGHT IBM CORP., 1979, 2019   LICENSED MATERIALS - PROPERTY OF IBM   STATUS = HBB77C0   EXTERNAL CLASSIFICATION: PI   END OF EXTERNAL CLASSIFICATION:   IFASMFR5 maps SMF records in the range 47-54.   %GOTO IFASMFR5B;   END OF SPECIFICATIONS   %GOTO IFAL47; START OF SPECIFICATIONS 01 DESCRIPTIVE NAME: JES SMF subsystem integrity record 02 ACRONYM: IAZSMF49 </pre>					
<pre> 01 MACRO NAME: IAZSMF49 01 DSECT NAME: N/A 01 LABEL PREFIX: SMF49 01 COMPONENT ID: JES Common (SC141) 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: END OF SPECIFICATIONS SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC SUBSYSTEM INTEGRITY RECORD TYPE 49 </pre>					
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



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
18	(12)		4	SMF49DTE	DATE FROM TIME MACRO
22	(16)	CHARACTER	4	SMF49SID	SYSTEM IDENTIFICATION
SUBSYSTEM IDENTIFICATION SECTION					
26	(1A)	BITSTRING	2	SMF49SBS	SUBSYSTEM IDENTIFIER
		.... ..1.		SMF49HSP	"X'0002'" JES2
		.... ..1.1		SMF49ASP	"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	SMF49SBSG	"*" SUBSYSTEM SECTION BEGINNING
JES2 AND JES3 SECTION					
32	(20)	BITSTRING	2	SMF49EVT(0)	EVENT STARTING
FOLLOWING BIT DEFINITIONS APPLY TO JES2					
32	(20)	BITSTRING	1	SMF49EJ2	First JES2 flag byte
33	(21)	BITSTRING	1	SMF49EJ22	JES2 flag byte
33	(21)	X'1'	0	SMF49SON	"1" SIGNON
33	(21)	X'2'	0	SMF49STL	"2" START LINE
FOLLOWING BIT DEFINITIONS APPLY TO JES3					
32	(20)	BITSTRING	1	SMF49EJ3	First JES2 flag byte
33	(21)	BITSTRING	1	SMF49EJ32	JES2 flag byte
33	(21)	X'1'	0	SMF49NER	"1" TERMINAL NOT DEFINED (BSC)
33	(21)	X'2'	0	SMF49PER	"2" SECURITY FAILURE (BSC)
33	(21)	X'4'	0	SMF49LER	"4" LINE ALREADY SIGNED ON (BSC)
33	(21)	X'8'	0	SMF49TER	"8" TERMINAL ALREADY SIGNED ON (BSC)
33	(21)	X'5'	0	SMF49LIM	"5" SESSION LIMIT EXCEEDED (SNA)
33	(21)	X'6'	0	SMF49DEF	"6" WORK STATION UNDEFINED (SNA)
33	(21)	X'7'	0	SMF49SPW	"7" SECURITY FAILURE (SNA)
33	(21)	X'8'	0	SMF49BND	"8" BIND FAILURE (SNA)
BEGINNING OF GENERAL SECTION					
34	(22)	BITSTRING	1	SMF49GEN(0)	Start of general section
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)
BEGINNING OF SIGNON MESSAGE SECTION THIS SECTION EXISTS ONLY FOR SIGNON EVENT STARTS					
60	(3C)	BITSTRING	1	SMF49A(0)	Start of signon message section
60	(3C)	BITSTRING	2	SMF49LN2	LGTH OF THIS SECTION(INCLUDING SELF-38)



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
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
SS06 SECTION					
32	(20)	BITSTRING	1	SMF49PC0(0)	Start of SS06 section
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
LENGTH EQUATES					
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



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<pre> START OF SPECIFICATIONS MACRO-NAME = IFASMFR PROPRIETARY STATEMENT = LICENSED MATERIALS - PROPERTY OF IBM 5655-ZOS COPYRIGHT IBM CORP. 1977, 2025 STATUS= HBB77F0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: THIS MACRO MAPS 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 IFASMFRD 1152-2047 (update as required) 01 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.  01 NOTES: none END OF SPECIFICATIONS THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS IFASMFR &amp;RECTYPE NOTE: VALUES FOR &amp;RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1) START OF SPECIFICATIONS 01 MACRO-NAME = IFASMFR5 COPYRIGHT = 5650-ZOS COPYRIGHT IBM CORP., 1979, 2019 LICENSED MATERIALS - PROPERTY OF IBM STATUS = HBB77C0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: IFASMFR5 maps SMF records in the range 47-54. %GOTO IFASMFR5B; END OF SPECIFICATIONS %GOTO IFAL47; START OF SPECIFICATIONS 01 DESCRIPTIVE NAME: JES SMF SNA start event record 02 ACRONYM: IAZSMF52 01 MACRO NAME: IAZSMF52 </pre>					
<pre> 01 DSECT NAME: N/A 01 LABEL PREFIX: SMF52 01 COMPONENT ID: JES Common (SC141) 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: END OF SPECIFICATIONS SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC </pre>					
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
BEGINNING OF JMR OR HASP SMF RECORD					
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



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
HEADER FOR HASP SUBSYSTEM RECORD TYPE 52					
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	SMF52ID0	OFFSET TO ID SECTION
34	(22)	BITSTRING	2	SMF52IDL	LENGTH OF ID SECTION
36	(24)	BITSTRING	2	SMF52IDN	NUMBER OF ID SECTION
PRODUCT SECTION HASP SUBSYSTEM RECORD TYPES 52					
38	(26)	CHARACTER	1	SMF520PS(0)	Define start of product section
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
ID SECTION OF HASP TYPE 52 (SNA) START EVENT AFTER TWO HDRS					
46	(2E)	CHARACTER	1	SMF52IDS(0)	Define start of id section
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
LENGTH EQUATES					
70	(46)	X'1E'	0	SMF520FP	"SMF52IDN+L'SMF52IDN-SMFRC52" OFFSET TO PROD SECT
70	(46)	X'8'	0	SMF52LPR	"SMF52SYS+L'SMF52SYS-SMF52SUB" LENGTH OF PROD SECT
70	(46)	X'26'	0	SMF520FI	"SMF52SYS+L'SMF52SYS-SMFRC52" OFFSET TO ID SECT
70	(46)	X'18'	0	SMF52LID	"SMF52PSW+L'SMF52PSW-SMF52IDS" LENGTH OF ID SECT



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<pre> START OF SPECIFICATIONS MACRO-NAME = IFASMFR PROPRIETARY STATEMENT = LICENSED MATERIALS - PROPERTY OF IBM 5655-ZOS COPYRIGHT IBM CORP. 1977, 2025 STATUS= HBB77F0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: THIS MACRO MAPS 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 IFASMFRD 1152-2047 (update as required) 01 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.  01 NOTES: none END OF SPECIFICATIONS THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS IFASMFR &amp;RECTYPE NOTE: VALUES FOR &amp;RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1) START OF SPECIFICATIONS 01 MACRO-NAME = IFASMFR5 COPYRIGHT = 5650-ZOS COPYRIGHT IBM CORP., 1979, 2019 LICENSED MATERIALS - PROPERTY OF IBM STATUS = HBB77C0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: IFASMFR5 maps SMF records in the range 47-54. %GOTO IFASMFR5B; END OF SPECIFICATIONS %GOTO IFAL47; START OF SPECIFICATIONS 01 DESCRIPTIVE NAME: JES SMF SNA stop event record 02 ACRONYM: IAZSMF53 01 MACRO NAME: IAZSMF53 </pre>					
<pre> 01 DSECT NAME: N/A 01 LABEL PREFIX: SMF53 01 COMPONENT ID: JES Common (SC141) 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: END OF SPECIFICATIONS SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC </pre>					
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
BEGINNING OF JMR OR HASP SMF RECORD					
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



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
HEADER FOR HASP SUBSYSTEM RECORD TYPE 53					
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	SMF53ID0	OFFSET TO ID SECTION
34	(22)	BITSTRING	2	SMF53IDL	LENGTH OF ID SECTION
36	(24)	BITSTRING	2	SMF53IDN	NUMBER OF ID SECTION
PRODUCT SECTION HASP SUBSYSTEM RECORD TYPE 53					
38	(26)	CHARACTER	1	SMF530PS(0)	Define start of product section
38	(26)	BITSTRING	2	SMF53SUB	SUBTYPE ID NUMBER
THE FOLLOWING EQUATES APPLY TO RECORD TYPE 53					
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
ID SECTION OF HASP TYPE 53 (SNA) STOP EVENT AFTER TWO HDRS					
46	(2E)	CHARACTER	1	SMF53IDS(0)	Define start of id section
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'1E'	0	SMF530FP	"SMF53IDN+L'SMF53IDN-SMFRC053" OFFSET TO PROD SECT
93	(5D)	X'8'	0	SMF53LPR	"SMF53SYS+L'SMF53SYS-SMF53SUB" LENGTH OF PROD SECT
93	(5D)	X'26'	0	SMF530FI	"SMF53SYS+L'SMF53SYS-SMFRC053" OFFSET TO ID SECT
93	(5D)	X'2F'	0	SMF53LID	"SMF53END-SMF53IDS" LENGTH OF ID SECT



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<pre> START OF SPECIFICATIONS MACRO-NAME = IFASMFR PROPRIETARY STATEMENT = LICENSED MATERIALS - PROPERTY OF IBM 5655-ZOS COPYRIGHT IBM CORP. 1977, 2025 STATUS= HBB77F0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: THIS MACRO MAPS 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 IFASMFRD 1152-2047 (update as required) 01 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.  01 NOTES: none END OF SPECIFICATIONS THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS IFASMFR &amp;RECTYPE NOTE: VALUES FOR &amp;RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1) START OF SPECIFICATIONS 01 MACRO-NAME = IFASMFR5 COPYRIGHT = 5650-ZOS COPYRIGHT IBM CORP., 1979, 2019 LICENSED MATERIALS - PROPERTY OF IBM STATUS = HBB77C0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: IFASMFR5 maps SMF records in the range 47-54. %GOTO IFASMFR5B; END OF SPECIFICATIONS %GOTO IFAL47; START OF SPECIFICATIONS 01 DESCRIPTIVE NAME: JES SMF Spool integrity event record 02 ACRONYM: IAZSMF54 </pre>					
<pre> 01 MACRO NAME: IAZSMF54 01 DSECT NAME: N/A 01 LABEL PREFIX: SMF54 01 COMPONENT ID: JES Common (SC141) 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: END OF SPECIFICATIONS </pre>					
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
BEGINNING OF JMR OR HASP SMF RECORD					
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)		4	SMF54DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF54SID	SYSTEM IDENTIFICATION



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
HEADER FOR HASP SUBSYSTEM RECORD TYPES 54					
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	SMF54ID0	OFFSET TO ID SECTION
34	(22)	BITSTRING	2	SMF54IDL	LENGTH OF ID SECTION
36	(24)	BITSTRING	2	SMF54IDN	NUMBER OF ID SECTION
PRODUCT SECTION HASP SUBSYSTEM RECORD TYPE 54					
38	(26)	CHARACTER	1	SMF540PS(0)	Define start of product section
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
ID SECTION OF HASP 54 (SNA) INTEGRITY RECORD AFTER TWO HDRS					
46	(2E)	CHARACTER	1	SMF54IDS(0)	Define start of id section
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



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<pre> START OF SPECIFICATIONS MACRO-NAME = IFASMFR PROPRIETARY STATEMENT = LICENSED MATERIALS - PROPERTY OF IBM 5655-ZOS COPYRIGHT IBM CORP. 1977, 2025 STATUS= HBB77F0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: THIS MACRO MAPS 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 IFASMFRD 1152-2047 (update as required) 01 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.  01 NOTES: none END OF SPECIFICATIONS THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS IFASMFR &amp;RECTYPE NOTE: VALUES FOR &amp;RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1) START OF SPECIFICATIONS 01 MACRO-NAME = IFASMFR6 PROPRIETARY STATEMENT = LICENSED MATERIALS - PROPERTY OF IBM 5650-ZOS COPYRIGHT IBM CORP. 1979, 2019 STATUS = HBB77C0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: IFASMFR6 maps SMF records in the range 55-69. %GOTO IFASMFR6B; END OF SPECIFICATIONS %GOTO IFAL55; START OF SPECIFICATIONS 01 DESCRIPTIVE NAME: JES SMF Network signon record 02 ACRONYM: IAZSMF55 </pre>					
<pre> 01 MACRO NAME: IAZSMF55 01 DSECT NAME: N/A 01 LABEL PREFIX: SMF55 01 COMPONENT ID: JES Common (SC141) 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: END OF SPECIFICATIONS SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC </pre>					
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
BEGINNING OF JMR OR HASP SMF RECORD					
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



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
HEADER FOR HASP SUBSYS RECORD TYPE 55					
22	(16)	X'37'	0	SMFJ55	"55" NETWORK SIGNON RECORD TYPE
26	(1A)	BITSTRING	2	SMF55SBS	HASP SUBSYSTEM ID
		.... ..1.		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
BEGINNING OF HASP TYPE 55 NETWORKING SIGNON RECORD AFTER 2 HDRS					
32	(20)	CHARACTER	8	SMF55NNM	NODE NAME
40	(28)	BITSTRING	1	SMF55MEM	MEMBER NUMBER
41	(29)	BITSTRING	1	SMF55FG1	SIGNON STATUS FLAGS
		1... ....		SMF55RS0	"B'10000000'" RESPONSE SIGNON
		.1.. ....		SMF55CON	"B'01000000'" Reset/concur signon
		..1. ....		SMF55SEC	"B'00100000'" Secure signon protocol (SMF55LPW and SMF55NPW are not set with this protocol)
42	(2A)	CHARACTER	8	SMF55LPW	LINE PASSWORD
50	(32)	CHARACTER	8	SMF55NPW	NODE PASSWORD
58	(3A)	CHARACTER	8	SMF55LNM	LINE NAME
66	(42)	BITSTRING	4	SMF55BSZ	Negotiated buffer size
70	(46)	CHARACTER	1	SMF55END(0)	END OF TYPE 55 RECORD (SHORT)
OPTIONAL INFORMATION ABOUT ADJACENT NODE					
70	(46)	BITSTRING	16	SMF55IPA	BINARY IP ADDRESS, IPv6 FORMAT
86	(56)	BITSTRING	2	SMF55PRT	PORT NUMBER
88	(58)	CHARACTER	127	SMF55HNM	TCP/IP HOST NAME
215	(D7)	CHARACTER	1	SMF55EN2(0)	END OF TYPE 55 RECORD (LONG)



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
START OF SPECIFICATIONS MACRO-NAME = IFASMFR PROPRIETARY STATEMENT = LICENSED MATERIALS - PROPERTY OF IBM 5655-ZOS COPYRIGHT IBM CORP. 1977, 2025 STATUS= HBB77F0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: THIS MACRO MAPS 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 IFASMFR14 1152-2047 (update as required) 01 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. 01 NOTES: none END OF SPECIFICATIONS 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) START OF SPECIFICATIONS 01 MACRO-NAME = IFASMFR6 PROPRIETARY STATEMENT = LICENSED MATERIALS - PROPERTY OF IBM 5650-ZOS COPYRIGHT IBM CORP. 1979, 2019 STATUS = HBB77C0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: IFASMFR6 maps SMF records in the range 55-69. %GOTO IFASMFR6B; END OF SPECIFICATIONS %GOTO IFAL55; START OF SPECIFICATIONS 01 DESCRIPTIVE NAME: JES SMF Network integrity record 02 ACRONYM: IAZSMF56					
01 MACRO NAME: IAZSMF56 01 DSECT NAME: N/A 01 LABEL PREFIX: SMF56 01 COMPONENT ID: JES Common (SC141) 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: END OF SPECIFICATIONS					
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
BEGINNING OF JMR OR HASP SMF RECORD					
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)		4	SMF56DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF56SID	SYSTEM IDENTIFICATION



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
HEADER FOR HASP SUBSYS RECORD TYPE 56					
22	(16)	X'38'	0	SMFJ56	"56" NETWORK INTEGRITY REC TYPE
26	(1A)	BITSTRING	2	SMF56SBS	HASP SUBSYSTEM ID
		.... ..1.		SMF56HSP	"X'0002'" JES2 ID
28	(1C)	BITSTRING	2	SMF56SUB	RECORD SUBTYPE
30	(1E)	BITSTRING	2	SMF56LRR	LENGTH OF REST OF RECORD
BEGINNING OF HASP TYPE 56 NETWORKING SIGNON RECORD AFTER 2 HDRS					
32	(20)	CHARACTER	8	SMF56NNM	NODE NAME
40	(28)	BITSTRING	1	SMF56MEM	MEMBER NUMBER
41	(29)	BITSTRING	1	SMF56FG1	SIGNON STATUS FLAGS
		1... ....		SMF56RS0	"B'10000000'" RESPONSE SIGNON
		.1.. ....		SMF56CON	"B'01000000'" Reset/concur signon
		..1. ....		SMF56SEC	"B'00100000'" Secure signon protocol (SMF56LPW and SMF56NPW are not set with this protocol)
42	(2A)	CHARACTER	8	SMF56LPW	LINE PASSWORD
50	(32)	CHARACTER	8	SMF56NPW	NODE PASSWORD
58	(3A)	CHARACTER	8	SMF56LNM	LINE NAME
66	(42)	BITSTRING	4	SMF56BSZ	Negotiated buffer size
70	(46)	CHARACTER	1	SMF56END(0)	END OF TYPE 56 RECORD (SHORT)
OPTIONAL INFORMATION ABOUT ADJACENT NODE					
70	(46)	BITSTRING	16	SMF56IPA	BINARY IP ADDRESS, IPv6 FORMAT
86	(56)	BITSTRING	2	SMF56PRT	PORT NUMBER
88	(58)	CHARACTER	127	SMF56HNM	TCP/IP HOST NAME
215	(D7)	CHARACTER	1	SMF56EN2(0)	END OF TYPE 56 RECORD (LONG)



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<pre> START OF SPECIFICATIONS MACRO-NAME = IFASMFR PROPRIETARY STATEMENT = LICENSED MATERIALS - PROPERTY OF IBM 5655-ZOS COPYRIGHT IBM CORP. 1977, 2025 STATUS= HBB77F0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: THIS MACRO MAPS 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 IFASMFRD 1152-2047 (update as required) 01 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.  01 NOTES: none END OF SPECIFICATIONS THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS IFASMFR &amp;RECTYPE NOTE: VALUES FOR &amp;RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1) START OF SPECIFICATIONS 01 MACRO-NAME = IFASMFR6 PROPRIETARY STATEMENT = LICENSED MATERIALS - PROPERTY OF IBM 5650-ZOS COPYRIGHT IBM CORP. 1979, 2019 STATUS = HBB77C0 EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: IFASMFR6 maps SMF records in the range 55-69. %GOTO IFASMFR6B; END OF SPECIFICATIONS %GOTO IFAL55; START OF SPECIFICATIONS 01 DESCRIPTIVE NAME: JES SMF network SYSOUT trans record 02 ACRONYM: IAZSMF57 </pre>					
<pre> 01 MACRO NAME: IAZSMF57 01 DSECT NAME: N/A 01 LABEL PREFIX: SMF57 01 COMPONENT ID: JES Common (SC141) 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: END OF SPECIFICATIONS SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC </pre>					
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
BEGINNING OF JMR OR HASP SMF RECORD					
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
18	(12)		4	SMF57DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF57SID	SYSTEM IDENTIFICATION



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
HEADER FOR HASP SUBSYS RECORD TYPES 57					
22	(16)	X'39'	0	SMFJ57	"57" NETWORK SYSOUT TRANSMISSION
26	(1A)	BITSTRING	2	SMF57SBS	HASP SUBSYSTEM ID
		.... ..1.		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
BEGINNING OF HASP TYPE 57 SYSOUT TRANSMISSION RECRD AFTER 2 HDRS					
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
<p>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.</p>					
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
<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>					



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
124	(7C)	BITSTRING	1	SMF57ESS(0)	Beginning of ESS section
124	(7C)	BITSTRING	2	SMF57LN1	LENGTH OF ESS SECTION
126	(7E)	BITSTRING	4	SMF57SGT	SEGMENT IDENTIFIER
130	(82)	BITSTRING	1	SMF57IND	ESS SECTION INDICATOR
		1... ....		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

```

START OF SPECIFICATIONS
MACRO-NAME = IFASMFR
PROPRIETARY STATEMENT =
LICENSED MATERIALS - PROPERTY OF IBM
5655-ZOS COPYRIGHT IBM CORP. 1977, 2025
STATUS= HBB77F0
EXTERNAL CLASSIFICATION: PI
END OF EXTERNAL CLASSIFICATION:
THIS MACRO MAPS 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
IFASMFRD 1152-2047 (update as required)
01 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.

01 NOTES: none
END OF SPECIFICATIONS
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)
START OF SPECIFICATIONS
01 MACRO-NAME = IFASMFR6
PROPRIETARY STATEMENT =
LICENSED MATERIALS - PROPERTY OF IBM
5650-ZOS COPYRIGHT IBM CORP. 1979, 2019
STATUS = HBB77C0
EXTERNAL CLASSIFICATION: PI
END OF EXTERNAL CLASSIFICATION:
IFASMFR6 maps SMF records in the range 55-69.
%GOTO IFASMFR6B;
END OF SPECIFICATIONS
%GOTO IFAL55;
START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: JES SMF Network signoff record
02 ACRONYM: IAZSMF58

```

```

01 MACRO NAME: IAZSMF58
01 DSECT NAME: N/A
01 LABEL PREFIX: SMF58
01 COMPONENT ID: JES Common (SC141)
01 EXTERNAL CLASSIFICATION: PI
01 END OF EXTERNAL CLASSIFICATION:
END OF SPECIFICATIONS
SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC

```



Table 213. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
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
BEGINNING OF JMR OR HASP SMF RECORD					
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
HEADER FOR HASP SUBSYS RECORD TYPES 58					
22	(16)	X'3A'	0	SMFJ58	"58" NETWORK SIGNOFF REC TYPE
26	(1A)	BITSTRING	2	SMF58SBS	HASP SUBSYSTEM ID
		.... ..1.		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
BEGINNING OF HASP TYPE 58 NETWORK SIGNOFF RECORD AFTER TWO HDRS					
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

Table 214. Structure SMF84HDR

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SMF84HDR	
0	(0)	X'0'	0	SMF84PTR	"*"
0	(0)	SIGNED	2	SMF84LEN	RECORD LENGTH
2	(2)	SIGNED	2	SMF84SEG	SEGMENT DESCRIPTOR
4	(4)	BITSTRING	1	SMF84FLG	SYSTEM INDICATOR
EQU X'80' RESERVED #					
		.1.. ....		SMF84STI	"X'40'" SUBTYPE INDICATOR INDICATES WHICH #0733MEC SUBSYSTEM IS BEING USED #0733MEA
EQU X'20' RESERVED # EQU X'10' RESERVED # EQU X'08' RESERVED # EQU X'04' MVS/XA #0 EQU X'02' VS2 # EQU X'01' VS1 #					
5	(5)	BITSTRING	1	SMF84RTY	RECORD TYPE (84 OR X'54') #0275



Table 214. Structure SMF84HDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
5	(5)	X'54'	0	SMFJ84	"84" SMF number
6	(6)		4	SMF84TME	TIME, IN HUNDREDS OF A SECOND WHEN#0275 RECORD WAS WRITTEN (SET BY SMF) #0733
10	(A)		4	SMF84DTE	DATE RECORD WAS WRITTEN, IN THE FORM 00YYDDDF WHERE F IS THE SIGN #0275 (SET BY SMF) #0733
14	(E)	BITSTRING	4	SMF84SID	SYSTEM IDENTIFICATION (SET BY SMF)#0733
18	(12)	SIGNED	2	SMF84SBS	SUBSYSTEM IDENTIFICATION --
		.... ..1.		SMF84HAS	"X'0002'" Signifies JES2
		.... ..1.1		SMF84ASP	"X'0005'" Signifies JES3
20	(14)	SIGNED	2	SMF84SGN	SEGMENT NUMBER #569
22	(16)	BITSTRING	1	SMF84FL1	FLAG BYTE 1 FOR SMF TYPE 84 #569
		1... ....		SMF84LST	"X'80'" LAST SMF SEGMENT INDICATOR #569
23	(17)	BITSTRING	1	SMF84VER	SMF84 VERSION NUMBER DEFAULT IS '00'
		.... ..1.		SMF84V2	"X'02'" TEMPORARY FIX INDICATOR
		.... ..11		SMF84V3	"X'03'" OS390 2.4.0
24	(18)	SIGNED	2	SMF84STY	RECORD SUBTYPE
26	(1A)	SIGNED	2	SMF84TRN	NUMBER OF TRIPLETS IN THIS RECORD #569
28	(1C)	SIGNED	4	SMF84PRS	OFFSET TO JMF PRODUCT SECTION
32	(20)	SIGNED	2	SMF84PRL	LENGTH OF JMF PRODUCT SECTION
34	(22)	SIGNED	2	SMF84PRN	NUMBER OF JMF PRODUCT SECTIONS #0733
36	(24)	SIGNED	4	SMF84GNS	OFFSET TO JMF GENERAL SECTION
40	(28)	SIGNED	2	SMF84GNL	LENGTH OF JMF GENERAL SECTION
42	(2A)	SIGNED	2	SMF84GNN	NUMBER OF JMF GENERAL SECTIONS
44	(2C)	SIGNED	4	SMF84J10	OFFSET TO JMF DATA SECTION
48	(30)	SIGNED	2	SMF84J1L	LENGTH OF JMF DATA SECTION
50	(32)	SIGNED	2	SMF84J1N	NUMBER OF JMF DATA SECTIONS
50	(32)	X'34'	0	SMF84SZ1	"*-SMF84LEN" SIZE OF SMF HEADER

Table 215. Structure SMF84PRO

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SMF84PRO	
0	(0)	SIGNED	2	R84MFVER	JMF VERSION NUMBER
2	(2)	CHARACTER	8	R84PRDNM	PRODUCT NAME (I.E., SC1BA )
10	(A)		4	R84INTST	TOD JMF MEASUREMENT INTERVAL STARTED, IN THE FORM HHMSSTF, F = SIGN, #0733 T IS TENTHS OF SECONDS #0733
14	(E)		4	R84SDATE	DATE JMF MEASUREMENT INTERVAL STARTED, IN THE FORM 00YYDDDF, WHERE F IS THE SIGN
18	(12)		4	R84INTEN	TOD JMF MEASUREMENT INTERVAL ENDED, IN THE FORM HHMSSTF, F = SIGN, #0733 T IS TENTHS OF SECONDS #0733
22	(16)		4	R84EDATE	DATE JMF MEASUREMENT INTERVAL ENDED, IN THE FORM 00YYDDDF, WHERE F IS THE SIGN



Table 215. Structure SMF84PRO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
26	(1A)		4	R84INTER	JMF INTERVAL LENGTH IN SECONDS #0776 2#0776
30	(1E)		4	R84MFCYC	JMF SAMPLING CYCLE LENGTH IN THE #0275 FORM OF 00SSSTTF, F = SIGN, #0402 (TAKEN FROM THE CYCLE OPTION) #0275
34	(22)	BITSTRING	2		RESERVED FOR DEVELOPMENT #0275
36	(24)	SIGNED	4	R84SAMPL	NUMBER OF JMF SAMPLES
40	(28)	CHARACTER	80	R84MFCMD	*CALL,JMF COMMAND
120	(78)	CHARACTER	8	R84MVSRL	MVS SOFTWARE LEVEL (CONSISTS OF AN ACRONYM AND THE VERSION, RELEASE, AND MODIFICATION LEVEL NUMBERS)
128	(80)	CHARACTER	8	R84JESRL	JES3 RELEASE LEVEL
136	(88)	CHARACTER	4	R84CPUM	CPU MODEL NUMBER
140	(8C)	SIGNED	4	R84RST0	Real storage size at IPL in KB - set to x'FFFFFFFF' if the value exceeds 4T-1 - see R84RST4K
144	(90)	CHARACTER	8	R84CPUNM	CPU SERIAL NUMBER
152	(98)	CHARACTER	4	R84CPUID	JES3 CPU ID #0275
156	(9C)	CHARACTER	8	R84MPNAM	MAIN PROCESSOR NAME
164	(A4)	BITSTRING	1	R84J3FLG	JES3 STATUS INDICATOR FLAG
		1... ....		R84J3PRO	"X'80'" JES3 PROCESSOR INDICATOR: #0275 OFF MEANS JES3 GLOBAL ON MEANS JES3 LOCAL
		.1... ....		R84J3APG	"X'40'" JES3 IS IN THE APG PRIORITY LEVEL
		..1. ....		R84J3SWP	"X'20'" JES3 IS NON-SWAPPABLE
165	(A5)	BITSTRING	1		RESERVED
166	(A6)	SIGNED	2	R84JPRTY	JES3 DISPATCHING PRIORITY
168	(A8)	SIGNED	4	R84JMFMN	MIN. JMF OVERHEAD IN MICROSECONDS #0615
172	(AC)	SIGNED	4	R84JFMFX	MAX. JMF OVERHEAD IN MICROSECONDS #0615
176	(B0)	SIGNED	4	R84JMFAV	AVG. JMF OVERHEAD IN MICROSECONDS #0615 % OF JMF INTERVAL TIME = JMF AVG TIME * JMF SAMPLES / JMF INTERVAL TIME IN MICROSECONDS * 100
180	(B4)	SIGNED	4	R84MVSMN	MIN. MVS OVERHEAD IN MICROSECONDS #0615
184	(B8)	SIGNED	4	R84MVSMX	MAX. MVS OVERHEAD IN MICROSECONDS #0615
188	(BC)	SIGNED	4	R84MVS AV	AVG. MVS OVERHEAD IN MICROSECONDS #0615 % OF JMF INTERVAL TIME = MVS AVG TIME * JMF SAMPLES / JMF INTERVAL TIME IN MICROSECONDS * 100
192	(C0)	SIGNED	8	R84RST4K	Real storage size at IPL in 4K pages
192	(C0)	X'C8'	0	R84PSSZ1	"*-R84MFVER" SIZE OF JMF PRODUCT SECTION

Table 216. Structure SMF84GS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF84GS	
0	(0)	SIGNED	4	R84CPUSC	CPU BUSY SAMPLE COUNT



Table 216. Structure SMF84GS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	SIGNED	4	R84NPA	IATNUC POSTED-ACTIVE COUNT; % OF IATNUC POSTED-ACTIVE = IATNUC POSTED- ACTIVE COUNT / CPU BUSY SAMPLE COUNT * 100
8	(8)	SIGNED	4	R84APA	IATAUX POSTED-ACTIVE COUNT; % OF IATAUX POSTED-ACTIVE = IATAUX POSTED- ACTIVE COUNT / CPU BUSY SAMPLE COUNT * 100
12	(C)	SIGNED	4	R84NPNA	IATNUC POSTED--NOT-ACTIVE COUNT; % OF IATNUC POSTED-NOT-ACTIVE = IATNUC POSTED-NOT-ACTIVE COUNT / CPU BUSY SAMPLE COUNT * 100
16	(10)	SIGNED	4	R84APNA	IATAUX POSTED--NOT-ACTIVE COUNT; % OF IATAUX POSTED-NOT-ACTIVE = IATAUX POSTED-NOT-ACTIVE COUNT / CPU BUSY SAMPLE COUNT * 100
20	(14)	SIGNED	4	R84NNP	IATNUC NOT-POSTED COUNT; % OF IATNUC NOT-POSTED = IATNUC NOT-POSTED COUNT / CPU BUSY SAMPLE COUNT * 100
24	(18)	SIGNED	4	R84ANP	IATAUX NOT-POSTED COUNT; % OF IATAUX NOT-POSTED = IATAUX NOT-POSTED COUNT / CPU BUSY SAMPLE COUNT * 100
28	(1C)	SIGNED	4	R84NNW	IATNUC NONSTANDARD-WAIT COUNT; % OF IATNUC NONSTANDARD-WAIT = IATNUC NON- STANDARD WAIT COUNT / CPU BUSY SAMPLE COUNT * 100
32	(20)	SIGNED	4	R84ANW	IATAUX NONSTANDARD-WAIT COUNT; % OF IATAUX NONSTANDARD-WAIT = IATAUX NON- STANDARD-WAIT COUNT / CPU BUSY SAMPLE COUNT * 100
36	(24)	SIGNED	4	R84NSLLR	IATNUC SUSPENDED-LOCAL-LOCK-REQUEST COUNT; % OF IATNUC SUSPENDED-LOCAL- LOCK-REQUEST = IATNUC SUSPENDED- LOCAL-LOCK-REQUEST COUNT / CPU BUSY SAMPLE COUNT * 100
40	(28)	SIGNED	4	R84ASLLR	IATAUX SUSPENDED-LOCAL-LOCK-REQUEST COUNT; % OF IATAUX SUSPENDED-LOCAL- LOCK-REQUEST = IATAUX SUSPENDED- LOCAL-LOCK-REQUEST COUNT / CPU BUSY SAMPLE COUNT * 100
44	(2C)	SIGNED	4	R84NSO	IATNUC SUSPENDED-OTHER COUNT; % OF IATNUC SUSPENDED-OTHER = IATNUC SUSPENDED-OTHER COUNT / CPU BUSY SAMPLE COUNT * 100
48	(30)	SIGNED	4	R84ASO	IATAUX SUSPENDED-OTHER COUNT; % OF IATAUX SUSPENDED-OTHER = IATAUX SUSPENDED-OTHER COUNT / CPU BUSY SAMPLE COUNT * 100
48	(30)	X'34'	0	R84GISZ1	"*-R84CPUSC" SIZE OF JMF GENERAL INFO SECTION

Table 217. Structure SMF84JRU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF84JRU	, WLM General Data Section
0	(0)	SIGNED	4	R84J2RUL	Length of the JES2 resource usage section
4	(4)	BITSTRING	1		Reserved
Triplets to describe data areas being returned. All offsets in the section are from SMF84JRU.					
30	(1E)	SIGNED	2	R84J2RTR	Number of triplets



Table 217. Structure SMF84JRU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Memory usage section (R84MEMJ2 DSECTs)					
32	(20)	SIGNED	4	R84J2RMO	Offset to 1st R84MEMJ2
36	(24)	SIGNED	2	R84J2RML	Length of a R84MEMJ2 entry
38	(26)	SIGNED	2	R84J2RMN	Number of R84MEMJ2 entries
Resource usage section (R84RSUJ2 DSECTs)					
40	(28)	SIGNED	4	R84J2RR0	Offset to 1st R84RSUJ2
44	(2C)	SIGNED	2	R84J2RRL	Length of a R84RSUJ2 entry
46	(2E)	SIGNED	2	R84J2RRN	Number of R84RSUJ2 entries
48	(30)	DBL WORD	8	(0)	Align
48	(30)	X'30'	0	R84J2RZ1	"*-SMF84JRU" Size of area

Table 218. Structure R84MEMJ2

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	R84MEMJ2	, Memory usage data entry
0	(0)	CHARACTER	12	R84MEM_NAME	Area name
12	(C)	SIGNED	4		Reserved
16	(10)	DBL WORD	8	R84MEM_REGION	Region size in bytes
24	(18)	DBL WORD	8	R84MEM_USE	Current area usage in bytes
32	(20)	DBL WORD	8	R84MEM_LOW	Low usage value in bytes
40	(28)	DBL WORD	8	R84MEM_HIGH	High usage value in bytes
48	(30)	DBL WORD	8	R84MEM_AVERAGE	Average in use in bytes
56	(38)	DBL WORD	8	(0)	Align
56	(38)	X'38'	0	R84MEM_LEN	"*-R84MEMJ2" Length of memory data

Table 219. Structure R84RSUJ2

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	R84RSUJ2	, Limit monitoring data entry
0	(0)	CHARACTER	8	R84RSU_NAME	Resource name
8	(8)	SIGNED	4	R84RSU_LIMIT	Current upper limit
12	(C)	SIGNED	4	R84RSU_INUSE	Current number in use
16	(10)	SIGNED	4	R84RSU_LOW	Low usage value
20	(14)	SIGNED	4	R84RSU_HIGH	High usage value
24	(18)	SIGNED	2	R84RSU_WARN	WARN= value for resource (zero if none)
26	(1A)	BITSTRING	1	R84RSU_FLG1	Flag bytes
		1... ....		R84RSU_F1OVER	"B'10000000'" Usage over warn level
27	(1B)	SIGNED	1		Reserved
28	(1C)	SIGNED	4	R84RSU_OVER	Count of samples over warn level (HASP050 needed)
32	(20)	SIGNED	4	R84RSU_AVERAGE	Average in use value
40	(28)	DBL WORD	8	(0)	Align
40	(28)	X'28'	0	R84RSU_LEN	"*-R84RSUJ2" Length of resource data



Table 220. Structure SMF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF	, DSECT may be destroyed

Table 221. Structure SMF1153\_HDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF1153_HDR	, SMF1153 record header
0	(0)	X'0'	0	SMF1153_PTR	"*" Alternative symbol
0	(0)	BITSTRING	24	SMF1153_HDR_SHD	Start of SMF standard header
0	(0)	SIGNED	2	SMF1153_HDR_LEN	RDW record length
2	(2)	SIGNED	2	SMF1153_HDR_SEG	RDW segment descriptor
4	(4)	BITSTRING	1	SMF1153_HDR_FLG	Flag byte
		.1.. ....		SMF1153_HDR_STV	"B'01000000'" Record has a subtype
		..1. ....		SMF1153_HDR_EXT	"B'00100000'" Extended header present
5	(5)	BITSTRING	1	SMF1153_HDR_RTY	Record type - always 126
6	(6)	SIGNED	4	SMF1153_HDR_TME	Record write time - hundredths of seconds since midnight
10	(A)		4	SMF1153_HDR_DTE	Record write date - in packed decimal format 0CYDDDF
14	(E)	CHARACTER	4	SMF1153_HDR_SID	System identification
18	(12)	CHARACTER	4	SMF1153_HDR_WID	Subsystem identification
22	(16)	SIGNED	2	SMF1153_HDR_STP	Record subtype
22	(16)	X'18'	0	SMF1153_HDR_SHSIZE	"*-SMF1153_HDR_SHD" Length of standard header
End of SMF standard header					
Start of V1 extension					
24	(18)	BITSTRING	32	SMF1153_HDR_EV1	Start of V1 extension
24	(18)	SIGNED	2	SMF1153_HDR_ELN	Length of extension
26	(1A)	BITSTRING	1	SMF1153_HDR_VER	SMF header version
26	(1A)	X'1'	0	SMF1153_HDR_HV1	"1" SMF header extension V1
27	(1B)	BITSTRING	1	SMF1153_HDR_FLG1	Additional flag byte
		1... ....		SMF1153_HDR_F1U86	"B'10000000'" IEFU86 exit was called
28	(1C)	BITSTRING	16	SMF1153_HDR_STCKE	TODE clock when record was written
44	(2C)	BITSTRING	8	SMF1153_HDR_TZ0	Timezone offset (CVTLDT0)
52	(34)	SIGNED	2	SMF1153_HDR_ETY	Extended record type
52	(34)	X'481'	0	SMF1153_EQU	"1153" Type 1153 SMF record
54	(36)	SIGNED	2		Reserved
54	(36)	X'20'	0	SMF1153_HDR_EXSIZE	"*-SMF1153_HDR_EV1" Length of V1 extension
End of SMF version 1 header extension					
Triplets to describe data areas being returned. All offsets are from SMF1153_HDR.					
56	(38)	SIGNED	2	SMF1153_HDR_TLN	Length of self-defining section
58	(3A)	BITSTRING	4		Reserved
62	(3E)	SIGNED	2	SMF1153_HDR_TRN	Number of triplets in this record



Table 221. Structure SMF1153\_HDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
The Product and General sections are always present. The remaining sections are returned based on the SMF1153 record subtype (SMF1153_HDR_STP). JES2 Product Section Triplet X					
64	(40)	SIGNED	4	SMF1153_HDR_PRS	Offset to section
68	(44)	SIGNED	2	SMF1153_HDR_PRL	Length of section
70	(46)	SIGNED	2	SMF1153_HDR_PRN	Number of sections JES2 General Section Triplet (DSECT SMF1153_GEN)
72	(48)	SIGNED	4	SMF1153_HDR_GNS	Offset to section
76	(4C)	SIGNED	2	SMF1153_HDR_GNL	Length of section
78	(4E)	SIGNED	2	SMF1153_HDR_GNN	Number of sections JES2 Usage Section Triplet (DSECT SMF1153_JRU)
80	(50)	SIGNED	4	SMF1153_HDR_RUS	Offset to section
84	(54)	SIGNED	2	SMF1153_HDR_RUL	Length of section
86	(56)	SIGNED	2	SMF1153_HDR_RUN	Number of sections
86	(56)	X'20'	0	SMF1153_HDR_STSIZE	"*-SMF1153_HDR_TLN" Length of self-defining section
86	(56)	X'58'	0	SMF1153_HDR_SIZE	"*-SMF1153_HDR" Length of Header Section

Table 222. Structure SMF1153\_PRO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF1153_PRO	, JES2 Product Section
0	(0)	CHARACTER	8	SMF1153_PRO_PRDNM	Product name
8	(8)	CHARACTER	8	SMF1153_PRO_MFVER	Product version (FMID)
16	(10)	CHARACTER	8	SMF1153_PRO_MVSRL	OS software level
24	(18)	CHARACTER	8	SMF1153_PRO_JESRL	JES2 release level
32	(20)	CHARACTER	8	SMF1153_PRO_JXCFNM	JES2 JESXCF group name
40	(28)	CHARACTER	8	SMF1153_PRO_NODENM	JES2 node name
48	(30)	CHARACTER	4	SMF1153_PRO_MEMBNM	JES2 member name
52	(34)	CHARACTER	8	SMF1153_PRO_SRVCLS	WLM service class
60	(3C)	SIGNED	1	SMF1153_PRO_SLEVEL	JES2 service level
61	(3D)	SIGNED	1	SMF1153_PRO_PLEVEL	JES2 product level
62	(3E)	SIGNED	2	SMF1153_PRO_PRTY(0)	Dispatching priority
62	(3E)	SIGNED	1	SMF1153_PRO_PRTYH	High order byte
63	(3F)	SIGNED	1	SMF1153_PRO_PRTYL	Low order byte
64	(40)	BITSTRING	1	SMF1153_PRO_FLG1	Status indicator byte
		.1.. ....		SMF1153_PRO_F1APG	"B'01000000" JES2 is in APG group
		..1. ....		SMF1153_PRO_F1SWP	"B'00100000" JES2 is non-swappable
65	(41)	BITSTRING	3		Reserved
68	(44)	CHARACTER	4	SMF1153_PRO_CPUM	CPU model number
72	(48)	SIGNED	8	SMF1153_PRO_RST4K	Real storage size at IPL in 4K pages
80	(50)		4	SMF1153_PRO_INTER	Interval length in seconds
84	(54)		4	SMF1153_PRO_MFCYC	Sampling cycle length in the form 00SSSTTF, e.g. 0000005C = 0.05 seconds
88	(58)	SIGNED	4	SMF1153_PRO_SAMPL	Number of samples
92	(5C)	BITSTRING	4		Reserved



Table 222. Structure SMF1153\_PRO (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
96	(60)	BITSTRING	16	SMF1153_PRO_STODE	Interval start time and date in TODE format
112	(70)		4	SMF1153_PRO_STIME	Interval start time in the form HHMMSSTF
116	(74)		4	SMF1153_PRO_SDATE	Interval start date in the form 0CYDDDF
120	(78)	BITSTRING	16	SMF1153_PRO_ETODE	Interval end time and date in TODE format
136	(88)		4	SMF1153_PRO_ETIME	Interval end time in the form HHMMSSTF
140	(8C)		4	SMF1153_PRO_EDATE	Interval end date in the form 0CYDDDF
144	(90)	SIGNED	8	SMF1153_PRO_RMOCPMN	Min JES2 monitor CPU overhead in microseconds
152	(98)	SIGNED	8	SMF1153_PRO_RMOCPMX	Max JES2 monitor CPU overhead in microseconds
160	(A0)	SIGNED	8	SMF1153_PRO_RMOCPAV	Avg JES2 monitor CPU overhead in microseconds
168	(A8)	SIGNED	8	SMF1153_PRO_RMOTIMN	Min JES2 monitor time overhead in microseconds
176	(B0)	SIGNED	8	SMF1153_PRO_RMOTIMX	Max JES2 monitor time overhead in microseconds
184	(B8)	SIGNED	8	SMF1153_PRO_RMOTIAV	Avg JES2 monitor time overhead in microseconds
192	(C0)	DBL WORD	8	(0)	Alignment
192	(C0)	X'C0'	0	SMF1153_PRO_SIZE	"*-SMF1153_PRO" Length of Product Section

Table 223. Structure SMF1153\_GEN

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SMF1153_GEN	, JES2 General Section
0	(0)	SIGNED	4	SMF1153_GEN_CPUSC	CPU busy sample count
<p>The percentages below are scaled by 10,000 for two digits of precision past the decimal point, e.g. SMF1153_GEN_PACT = 6712 should be interpreted as 67.12 percent.</p>					
4	(4)	SIGNED	4	SMF1153_GEN_NACT	Main task active count
8	(8)	SIGNED	4	SMF1153_GEN_PACT	Main task active percent
12	(C)	SIGNED	4	SMF1153_GEN_NDMVS	Awaiting dispatch count
16	(10)	SIGNED	4	SMF1153_GEN_PDMVS	Awaiting dispatch percent
20	(14)	SIGNED	4	SMF1153_GEN_NIDLE	Idle sample count
24	(18)	SIGNED	4	SMF1153_GEN_PIDLE	Idle sample percent
28	(1C)	SIGNED	4	SMF1153_GEN_NWAIT	Other MVS wait count
32	(20)	SIGNED	4	SMF1153_GEN_PWAIT	Other MVS wait percent
36	(24)	SIGNED	4	SMF1153_GEN_NLLOK	Awaiting local lock count
40	(28)	SIGNED	4	SMF1153_GEN_PLLOK	Awaiting local lock percent
44	(2C)	SIGNED	4	SMF1153_GEN_NNDSP	Non-dispatchable count
48	(30)	SIGNED	4	SMF1153_GEN_PNDSP	Non-dispatchable percent
52	(34)	SIGNED	4	SMF1153_GEN_NPAGE	Page wait count
56	(38)	SIGNED	4	SMF1153_GEN_PPAGE	Page wait percent
60	(3C)	BITSTRING	4		Reserved



Table 223. Structure SMF1153\_GEN (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
64	(40)	DBL WORD	8	(0)	Alignment
64	(40)	X'40'	0	SMF1153_GEN_SIZE	"*-SMF1153_GEN" Length of General Section

Table 224. Structure SMF1153\_JRU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF1153_JRU	, JES2 resource usage section
0	(0)	SIGNED	4	SMF1153_JRU_LEN	Length of JES2 resource usage section
4	(4)	BITSTRING	1		Reserved
Triplets to describe data areas being returned. All offsets in the section are from SMF1153_JRU.					
30	(1E)	SIGNED	2	SMF1153_JRU_RTR	Number of triplets
Memory usage entries (SMF1153_MEM DSECTs)					
32	(20)	SIGNED	4	SMF1153_JRU_RMO	Offset to 1st entry
36	(24)	SIGNED	2	SMF1153_JRU_RML	Length of an entry
38	(26)	SIGNED	2	SMF1153_JRU_RMN	Number of entries
Resource usage entries (SMF1153_RSU DSECTs)					
40	(28)	SIGNED	4	SMF1153_JRU_RRO	Offset to 1st entry
44	(2C)	SIGNED	2	SMF1153_JRU_RRL	Length of an entry
46	(2E)	SIGNED	2	SMF1153_JRU_RRN	Number of entries
48	(30)	DBL WORD	8	(0)	Alignment
48	(30)	X'30'	0	SMF1153_JRU_SIZE	"*-SMF1153_JRU" Length of Usage Section

Table 225. Structure SMF1153\_MEM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF1153_MEM	, Memory usage data entry
0	(0)	CHARACTER	12	SMF1153_MEM_NAME	Area name
12	(C)	SIGNED	4		Reserved
16	(10)	SIGNED	8	SMF1153_MEM_REGION	Region size in bytes
24	(18)	SIGNED	8	SMF1153_MEM_USE	Current area usage in bytes
32	(20)	SIGNED	8	SMF1153_MEM_LOW	Low usage value in bytes
40	(28)	SIGNED	8	SMF1153_MEM_HIGH	High usage value in bytes
48	(30)	SIGNED	8	SMF1153_MEM_AVERAGE	Average in use in bytes
56	(38)	DBL WORD	8	(0)	Alignment
56	(38)	X'38'	0	SMF1153_MEM_SIZE	"*-SMF1153_MEM" Length of Memory Section

Table 226. Structure SMF1153\_RSU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF1153_RSU	, Resource usage data entry
0	(0)	CHARACTER	8	SMF1153_RSU_NAME	Resource name
8	(8)	SIGNED	4	SMF1153_RSU_LIMIT	Current upper limit



Table 226. Structure SMF1153\_RSU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	SIGNED	4	SMF1153_RSU_INUSE	Current number in use
16	(10)	SIGNED	4	SMF1153_RSU_LOW	Low usage value
20	(14)	SIGNED	4	SMF1153_RSU_HIGH	High usage value
24	(18)	SIGNED	2	SMF1153_RSU_WARN	WARN= value for resource (zero if none)
26	(1A)	BITSTRING	1	SMF1153_RSU_FLG1	Flag byte
		1... ....		SMF1153_RSU_F1OVER	"B'10000000" Usage over warn level
		.1... ....		SMF1153_RSU_F1JPLX	"B'01000000" JESPLEX-wide resource
27	(1B)	SIGNED	1		Reserved
28	(1C)	SIGNED	4	SMF1153_RSU_OVER	Count of samples over warn level (HASP050 needed)
32	(20)	SIGNED	4	SMF1153_RSU_AVERAGE	Average in use value
36	(24)	BITSTRING	4		Reserved
40	(28)	DBL WORD	8	(0)	Alignment
40	(28)	X'28'	0	SMF1153_RSU_SIZE	"*-SMF1153_RSU" Length of Resource Section

Table 227. Structure SMF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF	, DSECT may be destroyed

Table 228. Structure SMF1154

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF1154	
0	(0)	CHARACTER	1	SMF1154_RECORD(0)	
0	(0)	X'0'	0	SMF1154_LEN	"*-SMF1154"

Table 229. Structure SMF1154\_CTRP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF1154_CTRP	Common self defining section
0	(0)	SIGNED	2	SMF1154_CTRP_TRN	Number of triplets(2)
2	(2)	SIGNED	2	SMF1154_CTRP_RSVD	Reserved, set to 0
The first triplet points to the 1154 Common Header section that is used by all Type 1154 records.					
4	(4)	SIGNED	4	SMF1154_C_OFFSET	Offset from record start to the 1154 common header section
8	(8)	SIGNED	2	SMF1154_C_LENGTH	Length of the 1154 common header section
10	(A)	SIGNED	2	SMF1154_C_NUMBER	Number of 1154 common header sections
The second triplet points to the 1154 subtype specific self defining section.					
12	(C)	SIGNED	4	SMF1154_SUBSPEC_OFFSET	Offset from record start to the subtype specific self defining section
16	(10)	SIGNED	2	SMF1154_SUBSPEC_LENGTH	Length of the subtype specific self defining section



Table 229. Structure SMF1154\_CTRP (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
18	(12)	SIGNED	2	SMF1154_SUBSPEC_NUMBER	Number of subtype specific self defining sections
20	(14)	CHARACTER	1	SMF1154_CTRP_END(0)	End of common self defining section
20	(14)	X'14'	0	SMF1154_CTRP_LEN	"*-SMF1154_CTRP"

Table 230. Structure SMF1154\_C\_HDR

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SMF1154_C_HDR	Common header section
0	(0)	SIGNED	2	SMF1154_C_VERSION	Version of common hdr, Refer to constant: SMF1154_C_Version_Current
2	(2)	BITSTRING	1	SMF1154_C_RECORDIND	1 = more records follow 0 = last or only record in the set
3	(3)	BITSTRING	1	SMF1154_C_SEQNUMBER	Sequence number, starting with 0, incremented for each additional record in the set
4	(4)	SIGNED	4	SMF1154_C_RELEASE	z/OS release (as ECVTPSEQ product sequence number)
8	(8)	CHARACTER	8	SMF1154_C_SYSTEMNAME	System name (EBCDIC)
16	(10)	CHARACTER	8	SMF1154_C_SYSPLEXNAME	Sysplex name (EBCDIC)
24	(18)	CHARACTER	8	SMF1154_C_USERID	SAF user ID or blanks
32	(20)	CHARACTER	8	SMF1154_C_JOBNAME	Jobname associated with the SMF data (EBCDIC).
40	(28)	CHARACTER	16	SMF1154_C_REQUESTID	Request ID as provided via the ENF 86 parameter list.
56	(38)	CHARACTER	4	SMF1154_C_CORRELATOR	Value used to correlate records in a set, along with subtype, system name, sysplex name, jobname, and request ID. Set to binary zeroes if not needed.
60	(3C)	CHARACTER	1	SMF1154_C_HDR_END(0)	End of common header section.

Constant used to set or check the extended record type, SMFHDR1\_EXT\_RTY, defined in IFASMFH

60	(3C)	X'482'	0	SMF1154HD_EXT_RTY_VALUE	"1154"
----	------	--------	---	-------------------------	--------

Constants for SMF1154\_C\_Version Field

60	(3C)	X'1'	0	SMF1154C_VERSION_CURRENT	"1"
60	(3C)	X'1'	0	SMF1154C_VERSION_1	"1"



Table 230. Structure SMF1154\_C\_HDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>When the information for an SMF 1154 record exceeds 32,756 bytes, multiple records are created to provide the complete set of information.</p> <p>Each record contains:</p> <ul style="list-style-type: none"> <li>- Standard extended SMF header</li> <li>- 1154 common self defining section</li> <li>- 1154 common header section</li> <li>- 1154 subtype specific self defining section</li> </ul> <p>In the 1154 common header, if there is a set of records:</p> <ul style="list-style-type: none"> <li>- SMF1154_C_RecordInd indicates if more records follow (SMF1154C_More_Records)</li> <li>- SMF1154_C_SeqNum indicates the sequence number, which starts at 0 and is incremented for each record in the set</li> <li>- SMF1154_C_Correlator is a value that can be used as an additional piece of information to correlate records within a set. If subtype, system name, sysplex name, jobname, and request ID uniquely identify a set of records, the correlator can be set to 0.</li> </ul> <p>The triplets in the 1154 subtype specific section indicate which sections (and how many instances of the section) are included in the record. Individual instances of a section will not be split across records. For a section with multiple instances, some instances can be included in one record and the remaining instances can be included in a subsequent record(s). Records within a set can be correlated using the subtype (SMFHDR1_STP) from the extended SMF header and the system name, sysplex name, jobname, request ID, and correlator from the 1154 common header.</p> <p>Constants for SMF1154_C_RecordInd Field</p>					
60	(3C)	X'1'	0	SMF1154C_MORE_RECORDS	"1"
60	(3C)	X'0'	0	SMF1154C_LASTORONLY_RECORD	"0"
<p>IBM reserved 1154 subtypes and user reserved 1154 subtypes boundary indicators:</p> <p>IBM assigned 1154 subtypes: x'0' - x'1FFF' (0-8191)</p> <p>User assigned 1154 subtypes: x'2000' - x'2FFF' (8192-12287)</p> <p>Mappings for the subtype specific section of the 1154 are provided by the product that builds the subtype.</p> <p>For extensibility, the subtype specific section MUST provide the number of triplets associated with the subtype:</p> <pre>   Name   Len.   Description    ===== ===== =====    SMF1154_&lt;x&gt;_TRN   2   Number of triplets in the       subtype &lt;x&gt; data section    ----- ----- -----      2   Reserved, set to 0   </pre> <p>This is followed by an array of triplets for each section in the subtype, with &lt;y&gt; as a placeholder for the section number:</p> <pre>   Name   Len.   Description    ===== ===== =====    SMF1154_&lt;x&gt;_S&lt;y&gt;_Offset   4   1154 subtype &lt;x&gt; sec tion         &lt;y&gt; offset from the start         of the record    ----- ----- -----    SMF1154_&lt;x&gt;_S&lt;y&gt;_Length   2   Length of a single instanc e         of a1 1154 subtype (x)         section &lt;y&gt;    ----- ----- -----    SMF1154_&lt;x&gt;_S&lt;y&gt;_Number   2   1154 subtype &lt;x&gt; sec tion         &lt;y&gt; number of instances   </pre> <p>To ensure uniqueness, all fields in the subtype specific</p>					
<p>sections of the record MUST begin with SMF1154_&lt;x&gt;, with &lt;x&gt; as a placeholder for the subtype number.</p>					
60	(3C)	X'0'	0	SMF1154_DUMMY1	"0" Used by IBM for the purpose of generating code
60	(3C)	X'3C'	0	SMF1154_C_HDR_LEN	"*-SMF1154_C_HDR"



Table 230. Structure SMF1154\_C\_HDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<pre> %Prog1154:: 01 CHANGE ACTIVITY: \$Z32LCMP=COMPL HBB77F0 230512 TJW: Compliance fixes A000000-999999 Created for JES2 z/OS V3R1   z/OS Data Collector SMF 1154 record, JES2   Compliance Evidence.   SMF 1154 Subtype 114 ('72'X): z/OS JES2   The following layout is used for this subtype: Start-&gt;-----   Standard extended SMF header     SMFHDR1 DSECT in IFASMFH    -----    Type 1154 common self defining section     SMF1154_CTRP DSECT in IFAR1154     Triplet 1 points to common header section     Triplet 2 points to subtype section    -----    Type 1154 common header section     SMF1154_C_HDR DSECT in IFAR1154     Pointed to by triplet 1 above    -----    Type 1154 subtype 114 self defining section     SMF1154_114_JES2HDR DSECT in IAZS1154     Pointed to by triplet 2 above     Triplet J1 points to JES2 common section     Triplet J2 points to job class section     Triplet : points to xxxxxxx section    -----    Type 1154 subtype 114 data section J1    -----    JES2 Common section     SMF1154_114_J2COM DSECT in IAZS1154     Pointed to by triplet J1 above    -----    Type 1154 subtype 114 data section J2     JES2 job class information     SMF1154_114_J2JCLASS DSECT in IAZS1154     Pointed to by triplet J2 above    -----    :    -----    Type 1154 subtype 114 data section Jx   The record has 2 triplet sections. - The first describes 2 sections that are part of   the base SMF1154, the first being the common   header from IFAR1154 and the second the JES2   header section. - The second triplet section is in the JES2 header   section and describes the JES2 specific sections   in this record. The Standard extended SMF header (SMFHDR1 DSECT) at the start of this record is built as follow: Set by JES2:   SMFHDR1_LEN -set to length of entire record   SMFHDR1_SEG -set to 0   SMFHDR1_FLAG -X'60'     SMFHDR1_STV X'40'     SMFHDR1_EXT X'20'   SMFHDR1_RTY -set to SMFHDR_EXTENDED_RECIND                 (126)   SMFHDR1_WID -\$SSNM JES2 subsystem name   SMFHDR1_STP -set to subtype value   SMFHDR1_Ext_Len -set to SMFHDR_EXT_V1_LEN   SMFHDR1_VERSION -set to 1   SMFHDR1_EXT_RTY -SMF1154HD_EXT_RTY_VALUE (1154) Set by SMF:   SMFHDR1_FLAG, bits 3-6 will be set on.   SMFHDR1_TIME   SMFHDR1_DATE   SMFHDR1_SID   SMFHDR1_FLAG   SSMFHDR1_STCKE   SMFHDR1_TZO The 1154 common header section (SMF1154_C_HDR DSECT) is built as follows by JES2:   SMF1154_C_Version -SMF1154_C_Version_Current   SMF1154_C_RecordInd -1 ind more record                       0 ind last or only record   SMF1154_C_SeqNumber -Seq number (start with 0) </pre>					



Table 230. Structure SMF1154\_C\_HDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
SMF1154_C_Release -ECVTPSEQ product seq # SMF1154_C_SystemName -CVTSNAME system name SMF1154_C_SysplexName -ECVTSPLX sysplex name SMF1154_C_UserID -\$JESUSER JES2 userid SMF1154_C_Jobname -\$SSNM JES2 subsystem name SMF1154_C_RequestID -ENF86_Request_ID value SMF1154_C_Correlator -Not used If a compliance record requires more than 32,756 bytes it must be continued in a second SMF 1154 record. This record has the following format: Start->-----   Standard extended SMF header     SMFHDR1 DSECT in IFASMFH    -----    Type 1154 common self defining section     SMF1154_CTRP DSECT in IFAR1154     Triplet 1 points to common header section     Triplet 2 points to subtype section    -----    Type 1154 common header section     SMF1154_C_HDR DSECT in IFAR1154     Pointed to by triplet 1 above    -----    Type 1154 subtype 114 self defining section     SMF1154_114_JES2HDR DSECT in IAZS1154     Pointed to by triplet 2 above     Triplet J1 points to JES2 common section     Triplet J2 points to job class section     Triplet : points to xxxxxx section     NOTE: some triplets may be 0 if there is no     continuation data for those triplets    -----    Type 1154 subtype 114 data section Jx     Continued entries for additional data    -----    :    -----    Type 1154 subtype 114 data section Jx					
The following fields must also be set: - SMF1154_C_RecordInd indicates if more records follow (SMF1154C_More_Records) - SMF1154_C_SeqNum indicates the sequence number, which starts at 0 and is incremented for each record in the set - SMF1154_C_Correlator will be set to a STCK time stamp shifted left 16 bits in all SMF 1154 records in within the set.					
60	(3C)	X'72'	0	SMF1154_114_SUBTYPE	"114" Subtype equate

Table 231. Structure SMF1154\_114\_JES2HDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF1154_114_JES2HDR	, SMF1154-114 JES2 header
0	(0)	SIGNED	2	SMF1154_114_J2H_TRN	Number of triplets
2	(2)	SIGNED	2	SMF1154_114_J2H_RSV	Reserved, set to 0
The first triplet points to the 1154 subtype 114 JES2 common section (mapped by SMF1154_114_J2COM).					
4	(4)	BITSTRING	1	SMF1154_114_J2H_TSTRT(0)	Start of triplets
4	(4)	SIGNED	4	SMF1154_114_J2H_COM_OFF	Offset from record start to JES2 common header section
8	(8)	SIGNED	2	SMF1154_114_J2H_COM_LEN	JES2 common header length
10	(A)	SIGNED	2	SMF1154_114_J2H_COM_NUM	JES2 common header count
The 2nd triplet points to the first 1154 subtype 114 JES2 Job Class information section. One entry is defined for each active JES2 job class (mapped by SMF1154_114_J2JCLASS).					



Table 231. Structure SMF1154\_114\_JES2HDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
12	(C)	SIGNED	4	SMF1154_114_J2H_JCS_OFF	Offset from record start to 1st JES2 job class section
16	(10)	SIGNED	2	SMF1154_114_J2H_JCS_LEN	JES2 length of each section
18	(12)	SIGNED	2	SMF1154_114_J2H_JCS_NUM	JES2 count of sections
20	(14)	BITSTRING	1	SMF1154_114_J2H_END(0)	End of JES2HDR section
20	(14)	X'14'	0	SMF1154_114_J2H_LEN	"*-SMF1154_114_JES2HDR" JES2HDR len
20	(14)	X'2'	0	SMF1154_114_J2H_TCNT	"(*-SMF1154_114_J2H_TSTRT)/8" Count of triplets

Table 232. Structure SMF1154\_114\_J2COM

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SMF1154_114_J2COM	, SMF1154-114 JES2 Common
0	(0)	SIGNED	2	SMF1154_114_J2CLEN	Length of this section
2	(2)	SIGNED	2	SMF1154_114_J2CVSN	Section version
2	(2)	X'1'	0	SMF1154_114_J2CV_1	"1" Version 1 (initial version)
2	(2)	X'1'	0	SMF1154_114_J2CV_C	"1" Current version 1
4	(4)	CHARACTER	4	SMF1154_114_J2CEYE	Section eyecatcher
8	(8)	CHARACTER	8	SMF1154_114_J2CPRDNM	Product name
16	(10)	CHARACTER	8	SMF1154_114_J2CMFVER	Product version (FMID)
24	(18)	CHARACTER	8	SMF1154_114_J2CMVSRL	OS software level
32	(20)	CHARACTER	8	SMF1154_114_J2CJESRL	JES2 release level
40	(28)	CHARACTER	8	SMF1154_114_J2CJXCFNM	JES2 JESXCF group name
48	(30)	CHARACTER	8	SMF1154_114_J2CNODENM	JES2 node name
56	(38)	CHARACTER	4	SMF1154_114_J2CMEMBNM	JES2 member name
60	(3C)	CHARACTER	8	SMF1154_114_J2CAPARNM	JES2 APAR number
68	(44)	SIGNED	1	SMF1154_114_J2CPLEVEL	JES2 product level
69	(45)	SIGNED	1	SMF1154_114_J2CSLEVEL	JES2 service level
70	(46)	BITSTRING	1	SMF1154_114_J2CBATCHAR	JES-BATCHALLRACF status
71	(47)	BITSTRING	1	SMF1154_114_J2CXBMAR	JES-XBMALLRACF status
72	(48)	BITSTRING	1	SMF1154_114_J2CJSP00L	JESSPOOL class status
73	(49)	BITSTRING	1	SMF1154_114_J2CJJOBS	JESJOBS class status
74	(4A)	BITSTRING	1	SMF1154_114_J2CJINPUT	JESINPUT class status
75	(4B)	BITSTRING	1		Reserved
76	(4C)	BITSTRING	1	SMF1154_114_J2CLEN(0)	End of J2COM section
76	(4C)	X'4C'	0	SMF1154_114_J2CLENG	"*-SMF1154_114_J2COM" Length

Table 233. Structure SMF1154\_114\_J2JCLASS

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SMF1154_114_J2JCLASS	, SMF1154-114 JES2 job class
0	(0)	SIGNED	2	SMF1154_114_J2JCLEN	Length of this section
2	(2)	SIGNED	2	SMF1154_114_J2JCVSN	Section version
2	(2)	X'1'	0	SMF1154_114_J2JCV_1	"1" Version 1 (initial version)
2	(2)	X'1'	0	SMF1154_114_J2JCV_C	"1" Current version 1
4	(4)	CHARACTER	4	SMF1154_114_J2JCEYE	Section eyecatcher
8	(8)	BITSTRING	1	SMF1154_114_J2JCACT	ACTIVE (0 - no, 1 - yes)



Table 233. Structure SMF1154\_114\_J2JCLASS (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
9	(9)	BITSTRING	1	SMF1154_114_J2JCBLP	BPL (0 - no, 1 - yes)
10	(A)	BITSTRING	1	SMF1154_114_J2JCPR0TS	Submitter check (1 - active)
11	(B)	BITSTRING	1	SMF1154_114_J2JCPR0TO	Owner check (1 - active)
12	(C)	CHARACTER	8	SMF1154_114_J2JCNAME	Job Class name
20	(14)	CHARACTER	8	SMF1154_114_J2JCXBM	XBM PROC
28	(1C)	BITSTRING	1	SMF1154_114_J2JCXALLR	XBMALLRACF (1 - active)
29	(1D)	BITSTRING	3		Reserved
29	(1D)	X'20'	0	SMF1154_114_J2JCLENG	"*-SMF1154_114_J2JCLASS" Section Length

Table 234. Structure SMF

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SMF	, DSECT may be destroyed
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.					
276	(114)	SIGNED	4	(0)	
920	(398)	DBL WORD	8	(0)	
392	(188)	DBL WORD	8	(0)	
1400	(578)	DBL WORD	8	(0)	
8	(8)	BITSTRING	88		Header Section
96	(60)	BITSTRING	192		Product Section
288	(120)	BITSTRING	64		General Section
352	(160)	BITSTRING	48		Usage Section
400	(190)	BITSTRING	280		Memory Usage Sections
680	(2A8)	BITSTRING	760		Resource Usage Sections
1440	(5A0)	DBL WORD	8	(0)	
1440	(5A0)	ADDRESS	2	(0)	
1440	(5A0)	ADDRESS	2	(0)	
1440	(5A0)	ADDRESS	2	(0)	
1440	(5A0)	ADDRESS	2	(0)	
1440	(5A0)	DBL WORD	8	(0)	Force double-word alignment
1440	(5A0)	X'5A0'	0	SMFLNG	"*-SMF" LEN OF LARGEST RECORD

Table 235. Cross Reference for \$SMF

Name	Offset	Hex Tag
NJEACCT	BC	
NJEBLDG	CC	
NJEDEPT	C4	
NJEJMR	84	
NJEJMREN	E8	
NJEJMRID	84	D5D1C5D1



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
NJEJMLN	8C	
NJEJMRSZ	E8	
NJEJOBNM	90	
NJEJOBNO	8E	
NJEJOBNX	E4	
NJEPRGMR	A0	
NJEROOM	D4	
NJETRANS	E4	
NJEUSRID	B4	
NJEXEQN	98	
NJEXEQU	DC	
R84ANP	18	
R84ANW	20	
R84APA	8	
R84APNA	10	
R84ASLLR	28	
R84ASO	30	
R84CPUID	98	
R84CPUM	88	
R84CPUNM	90	
R84CPUSC	0	
R84EDATE	16	
R84GISZ1	30	34
R84INTEN	12	
R84INTER	1A	
R84INTST	A	
R84JESRL	80	
R84JMFAV	B0	
R84JMFMN	A8	
R84JMFMX	AC	
R84JPRTY	A6	
R84J2RML	24	
R84J2RMN	26	
R84J2RMO	20	
R84J2RRL	2C	
R84J2RRN	2E	
R84J2RRO	28	
R84J2RTR	1E	
R84J2RUL	0	



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
R84J2RZ1	30	30
R84J3APG	A4	40
R84J3FLG	A4	
R84J3PRO	A4	80
R84J3SWP	A4	20
R84MEM_AVERAGE	30	
R84MEM_HIGH	28	
R84MEM_LEN	38	38
R84MEM_LOW	20	
R84MEM_NAME	0	
R84MEM_REGION	10	
R84MEM_USE	18	
R84MEMJ2	0	
R84MFCMD	28	
R84MFCYC	1E	
R84MFVER	0	
R84MPNAM	9C	
R84MVS AV	BC	
R84MVSMN	B4	
R84MVSMX	B8	
R84MVSRL	78	
R84NNP	14	
R84NNW	1C	
R84NPA	4	
R84NPNA	C	
R84NSLLR	24	
R84NSO	2C	
R84PRDNM	2	
R84PSSZ1	C0	C8
R84RST0	8C	
R84RST4K	C0	
R84RSU_AVERAGE	20	
R84RSU_FLG1	1A	
R84RSU_F10VER	1A	80
R84RSU_HIGH	14	
R84RSU_INUSE	C	
R84RSU_LEN	28	28
R84RSU_LIMIT	8	
R84RSU_LOW	10	



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
R84RSU_NAME	0	
R84RSU_OVER	1C	
R84RSU_WARN	18	
R84RSUJ2	0	
R84SAMPL	24	
R84SDATE	E	
SMF	0	
SMF	0	
SMF	0	
SMF	0	
SMF	0	
SMF	0	
SMF\$ESYS	22	80
SMFAPPC	6	1
SMFCBIE	3F	1
SMFCHAIN	0	
SMFCLFLG	6	
SMFHDR	0	
SMFHDR_DATE	A	
SMFHDR_EXT_USERREC_HIGH	4C	47F
SMFHDR_EXT_USERREC_LOW	4C	80
SMFHDR_EXT_V1_LEN	4C	20
SMFHDR_EXT_V2_LEN	4C	44
SMFHDR_EXTENDED_RECIND	4C	7E
SMFHDR_FLAG	4	
SMFHDR_LEN	0	
SMFHDR_LEN_HIGHBIT	0	80
SMFHDR_MAX_RECORD_TYPES	4C	800
SMFHDR_MAX_RTY_NUMBER	4C	7FF
SMFHDR_MAX_STD_REC_TYPE	4C	FF
SMFHDR_MAXIMUM_ALLOWED_REC_LEN	4C	7FF4
SMFHDR_MIN_LEN	4C	12
SMFHDR_MIN_RTY_NUMBER	4C	0
SMFHDR_MINIMUM_ALLOWED_REC_LEN	4C	12
SMFHDR_MINIMUM_HDR	0	
SMFHDR_NUM_RECORD_SUBTYPES	4C	8000
SMFHDR_RTY	5	
SMFHDR_SEG	2	
SMFHDR_SID	E	



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMFHDR_SMFEXT_MAXIMUM_VERSION	4C	2
SMFHDR_STANDARD_HDR	0	
SMFHDR_STD_HDR	12	
SMFHDR_STD_LEN	4C	18
SMFHDR_STP	16	
SMFHDR_STV	4	40
SMFHDR_TIME	6	
SMFHDR_V1_LEN	4C	38
SMFHDR_V2_LEN	4C	5C
SMFHDR_WID	12	
SMFHDR1	0	
SMFHDR1_DATE	A	
SMFHDR1_EXT	4	20
SMFHDR1_EXT_LEN	18	
SMFHDR1_EXT_RTY	34	
SMFHDR1_EXTENDED_HDR	18	
SMFHDR1_FLAG	4	
SMFHDR1_FLAGS	1B	
SMFHDR1_IEFU86	1B	80
SMFHDR1_LEN	0	
SMFHDR1_LEN_HIGHBIT	0	80
SMFHDR1_MINIMUM_HDR	0	
SMFHDR1_RTY	5	
SMFHDR1_SEG	2	
SMFHDR1_SID	E	
SMFHDR1_STANDARD_HDR	0	
SMFHDR1_STCKE	1C	
SMFHDR1_STD_HDR	12	
SMFHDR1_STP	16	
SMFHDR1_STV	4	40
SMFHDR1_TIME	6	
SMFHDR1_TZO	2C	
SMFHDR1_VERSION	1A	
SMFHDR1_V1_EXT_HDR	18	
SMFHDR1_WID	12	
SMFHDR2	0	
SMFHDR2_DATE	A	
SMFHDR2_EXT	4	20
SMFHDR2_EXT_LEN	18	



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMFHDR2_EXT_RTY	34	
SMFHDR2_EXTENDED_HDR	18	
SMFHDR2_FLAG	4	
SMFHDR2_FLAGS	1B	
SMFHDR2_IEFU86	1B	80
SMFHDR2_LEN	0	
SMFHDR2_LEN_HIGHBIT	0	80
SMFHDR2_LSO_16	4C	
SMFHDR2_MINIMUM_HDR	0	
SMFHDR2_RSV1	36	
SMFHDR2_RTY	5	
SMFHDR2_SEG	2	
SMFHDR2_SID	E	
SMFHDR2_STANDARD_HDR	0	
SMFHDR2_STCKE	1C	
SMFHDR2_STP	16	
SMFHDR2_STV	4	40
SMFHDR2_TIME	6	
SMFHDR2_TZO	2C	
SMFHDR2_TZO_16	3C	
SMFHDR2_VERSION	1A	
SMFHDR2_WID	12	
SMFHDR2_ZOS_PRODSEQ	38	
SMFJMR	A	C
SMFJMRCH	8	
SMFJM RTP	4	80
SMFJ24	16	18
SMFJ26	D	1A
SMFJ43	D	2B
SMFJ45	D	2D
SMFJ47	D	2F
SMFJ48	D	30
SMFJ49	D	31
SMFJ52	16	34
SMFJ53	16	35
SMFJ54	16	36
SMFJ55	16	37
SMFJ56	16	38
SMFJ57	16	39



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMFJ58	16	3A
SMFJ6	D	6
SMFJ84	5	54
SMFLEN	8	
SMFLNG	5A0	5A0
SMFLNHDR	7	8
SMFLRGTP	4	40
SMFN026	5	1
SMFPARM	7	
SMFQUED	4	20
SMFRCD24	8	8
SMFRCD26	8	8
SMFRCD43	8	8
SMFRCD45	8	8
SMFRCD47	8	8
SMFRCD48	8	8
SMFRCD49	8	8
SMFRCD52	8	8
SMFRCD53	8	8
SMFRCD54	8	8
SMFRCD55	8	8
SMFRCD56	8	8
SMFRCD57	8	8
SMFRCD58	8	8
SMFRCD6	8	8
SMFRDW	8	
SMFSEG	A	
SMFTYPE	4	
SMFWFL26	5	
SMF1153_EQU	34	481
SMF1153_GEN	0	
SMF1153_GEN_CPUSC	0	
SMF1153_GEN_NACT	4	
SMF1153_GEN_NDMVS	C	
SMF1153_GEN_NIDLE	14	
SMF1153_GEN_NLLOK	24	
SMF1153_GEN_NNDSP	2C	
SMF1153_GEN_NPAGE	34	
SMF1153_GEN_NWAIT	1C	



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF1153_GEN_PACT	8	
SMF1153_GEN_PDMVS	10	
SMF1153_GEN_PIDLE	18	
SMF1153_GEN_PLLOK	28	
SMF1153_GEN_PNDSP	30	
SMF1153_GEN_PPAGE	38	
SMF1153_GEN_PWAIT	20	
SMF1153_GEN_SIZE	40	40
SMF1153_HDR	0	
SMF1153_HDR_DTE	A	
SMF1153_HDR_ELN	18	
SMF1153_HDR_ETY	34	
SMF1153_HDR_EV1	18	
SMF1153_HDR_EXSIZE	36	20
SMF1153_HDR_EXT	4	20
SMF1153_HDR_FLG	4	
SMF1153_HDR_FLG1	1B	
SMF1153_HDR_F1U86	1B	80
SMF1153_HDR_GNL	4C	
SMF1153_HDR_GNN	4E	
SMF1153_HDR_GNS	48	
SMF1153_HDR_HV1	1A	1
SMF1153_HDR_LEN	0	
SMF1153_HDR_PRL	44	
SMF1153_HDR_PRN	46	
SMF1153_HDR_PRS	40	
SMF1153_HDR_RTY	5	
SMF1153_HDR_RUL	54	
SMF1153_HDR_RUN	56	
SMF1153_HDR_RUS	50	
SMF1153_HDR_SEG	2	
SMF1153_HDR_SHD	0	
SMF1153_HDR_SHSIZE	16	18
SMF1153_HDR_SID	E	
SMF1153_HDR_SIZE	56	58
SMF1153_HDR_STCKE	1C	
SMF1153_HDR_STP	16	
SMF1153_HDR_STSIZE	56	20
SMF1153_HDR_STV	4	40



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF1153_HDR_TLN	38	
SMF1153_HDR_TME	6	
SMF1153_HDR_TRN	3E	
SMF1153_HDR_TZ0	2C	
SMF1153_HDR_VER	1A	
SMF1153_HDR_WID	12	
SMF1153_JRU	0	
SMF1153_JRU_LEN	0	
SMF1153_JRU_RML	24	
SMF1153_JRU_RMN	26	
SMF1153_JRU_RMO	20	
SMF1153_JRU_RRL	2C	
SMF1153_JRU_RRN	2E	
SMF1153_JRU_RRO	28	
SMF1153_JRU_RTR	1E	
SMF1153_JRU_SIZE	30	30
SMF1153_MEM	0	
SMF1153_MEM_AVERAGE	30	
SMF1153_MEM_HIGH	28	
SMF1153_MEM_LOW	20	
SMF1153_MEM_NAME	0	
SMF1153_MEM_REGION	10	
SMF1153_MEM_SIZE	38	38
SMF1153_MEM_USE	18	
SMF1153_PRO	0	
SMF1153_PRO_CPUM	44	
SMF1153_PRO_EDATE	8C	
SMF1153_PRO_ETIME	88	
SMF1153_PRO_ETODE	78	
SMF1153_PRO_FLG1	40	
SMF1153_PRO_F1APG	40	40
SMF1153_PRO_F1SWP	40	20
SMF1153_PRO_INTER	50	
SMF1153_PRO_JESRL	18	
SMF1153_PRO_JXCFNM	20	
SMF1153_PRO_MEMBNM	30	
SMF1153_PRO_MFCYC	54	
SMF1153_PRO_MFVER	8	
SMF1153_PRO_MVSRL	10	



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF1153_PRO_NODENM	28	
SMF1153_PRO_PLEVEL	3D	
SMF1153_PRO_PRDNM	0	
SMF1153_PRO_PRTY	3E	
SMF1153_PRO_PRTYH	3E	
SMF1153_PRO_PRTYL	3F	
SMF1153_PRO_RMOCPAV	A0	
SMF1153_PRO_RMOCPMN	90	
SMF1153_PRO_RMOCPMX	98	
SMF1153_PRO_RMOTIAV	B8	
SMF1153_PRO_RMOTIMN	A8	
SMF1153_PRO_RMOTIMX	B0	
SMF1153_PRO_RST4K	48	
SMF1153_PRO_SAMPL	58	
SMF1153_PRO_SDATE	74	
SMF1153_PRO_SIZE	C0	C0
SMF1153_PRO_SLEVEL	3C	
SMF1153_PRO_SRVCLS	34	
SMF1153_PRO_STIME	70	
SMF1153_PRO_STODE	60	
SMF1153_PTR	0	0
SMF1153_RSU	0	
SMF1153_RSU_AVERAGE	20	
SMF1153_RSU_FLG1	1A	
SMF1153_RSU_F1JPLX	1A	40
SMF1153_RSU_F1OVER	1A	80
SMF1153_RSU_HIGH	14	
SMF1153_RSU_INUSE	C	
SMF1153_RSU_LIMIT	8	
SMF1153_RSU_LOW	10	
SMF1153_RSU_NAME	0	
SMF1153_RSU_OVER	1C	
SMF1153_RSU_SIZE	28	28
SMF1153_RSU_WARN	18	
SMF1154	0	
SMF1154_C_CORRELATOR	38	
SMF1154_C_HDR	0	
SMF1154_C_HDR_END	3C	
SMF1154_C_HDR_LEN	3C	3C



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF1154_C_JOBNAME	20	
SMF1154_C_LENGTH	8	
SMF1154_C_NUMBER	A	
SMF1154_C_OFFSET	4	
SMF1154_C_RECORDIND	2	
SMF1154_C_RELEASE	4	
SMF1154_C_REQUESTID	28	
SMF1154_C_SEQNUMBER	3	
SMF1154_C_SYSPLEXNAME	10	
SMF1154_C_SYSTEMNAME	8	
SMF1154_C_USERID	18	
SMF1154_C_VERSION	0	
SMF1154_CTRP	0	
SMF1154_CTRP_END	14	
SMF1154_CTRP_LEN	14	14
SMF1154_CTRP_RSVD	2	
SMF1154_CTRP_TRN	0	
SMF1154_DUMMY1	3C	0
SMF1154_LEN	0	0
SMF1154_RECORD	0	
SMF1154_SUBSPEC_LENGTH	10	
SMF1154_SUBSPEC_NUMBER	12	
SMF1154_SUBSPEC_OFFSET	C	
SMF1154_114_JES2HDR	0	
SMF1154_114_J2CAPARNM	3C	
SMF1154_114_J2CBATCHAR	46	
SMF1154_114_J2CEYE	4	
SMF1154_114_J2CJESRL	20	
SMF1154_114_J2CJINPUT	4A	
SMF1154_114_J2CJJ0BS	49	
SMF1154_114_J2CJSP00L	48	
SMF1154_114_J2CJXCFNM	28	
SMF1154_114_J2CLEN	0	
SMF1154_114_J2CLEND	4C	
SMF1154_114_J2CLENG	4C	4C
SMF1154_114_J2CMEMBNM	38	
SMF1154_114_J2CMFVER	10	
SMF1154_114_J2CMVSRL	18	
SMF1154_114_J2CNODENM	30	



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF1154_114_J2COM	0	
SMF1154_114_J2CPLEVEL	44	
SMF1154_114_J2CPRDNM	8	
SMF1154_114_J2CSLEVEL	45	
SMF1154_114_J2CV_C	2	1
SMF1154_114_J2CV_1	2	1
SMF1154_114_J2CVSN	2	
SMF1154_114_J2CXBMAR	47	
SMF1154_114_J2H_COM_LEN	8	
SMF1154_114_J2H_COM_NUM	A	
SMF1154_114_J2H_COM_OFF	4	
SMF1154_114_J2H_END	14	
SMF1154_114_J2H_JCS_LEN	10	
SMF1154_114_J2H_JCS_NUM	12	
SMF1154_114_J2H_JCS_OFF	C	
SMF1154_114_J2H_LEN	14	14
SMF1154_114_J2H_RSV	2	
SMF1154_114_J2H_TCNT	14	2
SMF1154_114_J2H_TRN	0	
SMF1154_114_J2H_TSTRT	4	
SMF1154_114_J2JCACT	8	
SMF1154_114_J2JCBLP	9	
SMF1154_114_J2JCEYE	4	
SMF1154_114_J2JCLASS	0	
SMF1154_114_J2JCLEN	0	
SMF1154_114_J2JCLENG	1D	20
SMF1154_114_J2JCNAME	C	
SMF1154_114_J2JCPROTO	B	
SMF1154_114_J2JCPROTS	A	
SMF1154_114_J2JCV_C	2	1
SMF1154_114_J2JCV_1	2	1
SMF1154_114_J2JCVSN	2	
SMF1154_114_J2JCXALLR	1C	
SMF1154_114_J2JCXBM	14	
SMF1154_114_SUBTYPE	3C	72
SMF1154C_LASTORONLY_RECORD	3C	0
SMF1154C_MORE_RECORDS	3C	1
SMF1154C_VERSION_CURRENT	3C	1
SMF1154C_VERSION_1	3C	1



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF1154HD_EXT_RTY_VALUE	3C	482
SMF24AFF	C2	40
SMF24A0F	FC	E8
SMF24BCF	5A	0
SMF24BHD	8	
SMF24CJD	6C	40404040
SMF24CNT	A4	0
SMF24COM	5B	80
SMF24CON	5A	40
SMF24DDS	AC	0
SMF24DRD	BC	0
SMF24DSN	78	40404040
SMF24DTE	12	C
SMF24EJS	F0	
SMF24E0J	5B	0
SMF24ESA	F0	
SMF24ESL	10F	12
SMF24ESS	FD	
SMF24FCB	D4	40404040
SMF24FLG	C	0
SMF24FLS	E0	40404040
SMF24FOR	D8	40404040
SMF24FST	5A	80
SMF24GEN	58	
SMF24GLN	58	0
SMF24G0F	FC	50
SMF24INC	C2	10
SMF24IND	103	
SMF24INJ	5B	20
SMF24JAF	CC	40404040
SMF24JBN	5C	40404040
SMF24JBS	C0	
SMF24JCL	C3	40
SMF24JDT	105	
SMF24JFG	C2	0
SMF24JHL	C2	80
SMF24JID	64	40404040
SMF24JND	C4	40404040
SMF24JR	1E	2



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF24JRT	C4	
SMF24JT	1E	1
SMF24LEN	8	
SMF24LGN	30	
SMF24LHD	22	1C
SMF24LN	FC	68
SMF24LN1	C0	0
SMF24LN2	C0	0
SMF24LN3	FD	0
SMF24LN4	F8	
SMF24LPS	28	
SMF24LSA	48	
SMF24LSP	38	
SMF24LST	5A	20
SMF24LSW	40	
SMF24LS4	F0	0
SMF24L1	FC	30
SMF24L2	FC	3D
SMF24MUL	C2	8
SMF24NGN	32	
SMF24NPS	2A	
SMF24NSA	4A	
SMF24NSP	3A	
SMF24NSW	42	
SMF24NTP	4A	5
SMF24NTR	20	
SMF240GN	2C	
SMF240PR	5B	10
SMF240PS	24	
SMF240RG	B0	40404040
SMF240SA	44	
SMF240SP	34	
SMF240SW	3C	
SMF24PNM	4E	
SMF24P0F	FC	44
SMF24PRD	FC	C
SMF24PRM	E4	40404040
SMF24PRO	4C	
SMF24PRY	FC	0



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF24PTR	8	8
SMF24PVR	4C	
SMF24REC	F8	0
SMF24RSV	22	
SMF24RS2	56	
SMF24RTY	D	0
SMF24SAC	FC	
SMF24SAL	FC	C
SMF24SAN	F4	
SMF24SBT	C2	40
SMF24SCL	C3	40
SMF24SDS	5B	40
SMF24SEG	A	
SMF24SFG	C2	0
SMF24SGT	FF	
SMF24SHL	C2	80
SMF24SID	16	40404040
SMF24SJF	103	80
SMF24SJH	C2	20
SMF24SND	C4	40404040
SMF24SOF	FC	B8
SMF24SOS	C0	
SMF24SR	1E	4
SMF24SRN	CC	40404040
SMF24SRT	C4	
SMF24SSI	1A	
SMF24ST	1E	3
SMF24STS	C	40
SMF24SUB	1E	0
SMF24SYS	74	40404040
SMF24TDS	A8	0
SMF24TME	E	0
SMF24TPS	22	24
SMF24TRD	B8	0
SMF24TRP	4A	28
SMF24TU	10F	
SMF24TUL	10D	
SMF24UCS	EC	40404040
SMF24WID	F0	40404040



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF248CL	E8	40404040
SMF26ACP	38	100
SMF26ACT	70	
SMF26AC1	114	
SMF26AIS	5A	22
SMF26ASP	36	5
SMF26ATU	38	2000
SMF26BCH	3E	80
SMF26BHD	8	
SMF26BYC	DD	
SMF26BYU	D5	
SMF26CCT	E5	
SMF26CID	4E	
SMF26CLN	B8	
SMF26CLS	61	
SMF26CON	BC	20
SMF26CPD	52	
SMF26CPT	4E	
SMF26CPY	3E	2
SMF26CSD	4A	
SMF26CST	46	
SMF26CYP	88	
SMF26DDT	B4	
SMF26DES	38	8000
SMF26DEV	68	
SMF26DJC	3E	80
SMF26DJE	3E	1
SMF26DJ0	3E	2
SMF26DLJ	3E	40
SMF26DLM	3E	20
SMF26DLN	F3	
SMF26DTE	12	
SMF26DTM	B0	
SMF26DTY	84	
SMF26EBT	3C	
SMF26ECS	52	1A
SMF26ECT	E9	
SMF26EFM	4C	
SMF26EIR	3F	4



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF26ELN	7C	
SMF26EPG	44	
SMF26EPU	80	
SMF26EVT	38	4000
SMF26FLG	C	
SMF26FRM	84	
SMF26FTS	3E	40
SMF26HSP	36	2
SMF26ICD	3E	
SMF26IGP	88	
SMF26IND	38	
SMF26INF	3F	
SMF26INR	3C	
SMF26IN2	3E	
SMF26IN3	3E	
SMF26IX2	64	
SMF26JAF	5A	
SMF26JBF	3E	1
SMF26JBN	1A	
SMF26JCP	3F	80
SMF26JCR	6C	
SMF26JDL	64	80
SMF26JID	44	
SMF26JNM	40	
SMF26JOL	64	40
SMF26JTK	F9	
SMF26JT1	101	
SMF26JT2	105	
SMF26JXP	38	400
SMF26J2D	80	84
SMF26J2R	38	800
SMF26J3D	84	84
SMF26LA	114	40
SMF26LAG	40	
SMF26LAI	60	
SMF26LB	114	18
SMF26LC	114	1C
SMF26LD	114	8
SMF26LEC	58	



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF26LEN	8	
SMF26LIN	8A	
SMF26LJC	50	
SMF26LMC	68	
SMF26LN	114	32
SMF26LN1	3A	
SMF26LN2	3A	
SMF26LN3	3A	
SMF26LN4	3A	
SMF26LN5	3A	
SMF26LN6	3A	
SMF26LN7	3A	
SMF26LN8	111	
SMF26LOC	66	
SMF26LPN	64	20
SMF26LWL	48	
SMF26L1	114	5E
SMF26L10	114	D7
SMF26L2	114	3C
SMF26L3	114	20
SMF26L4	114	68
SMF26L5	114	E
SMF26L6	114	1A
SMF26L7	114	32
SMF26L9	114	29
SMF26MRE	3F	2
SMF26MSC	62	2A
SMF26MSG	60	
SMF26NAC	52	
SMF26NAG	42	
SMF26NAI	62	
SMF26NAM	4C	
SMF26NDV	62	
SMF26NEC	5A	
SMF26NET	A8	
SMF26NID	3E	
SMF26NJB	5A	
SMF26NJC	52	
SMF26NJE	3E	4



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF26NJI	A0	
SMF26NJO	98	
SMF26NJX	3E	8
SMF26NLG	3F	10
SMF26NLN	82	
SMF26NMC	6A	
SMF26NN	92	
SMF26NNM	7A	
SMF26NOJ	3E	10
SMF26NON	6A	
SMF26NOU	3E	8
SMF26NPD	4E	
SMF26NPT	4A	
SMF26NRA	113	
SMF26NSD	46	
SMF26NST	42	
SMF26NTW	38	1000
SMF26NU	9A	
SMF26NWL	4A	
SMF26NXN	72	
SMF26OAG	3C	
SMF26OAI	5C	
SMF26OEC	54	
SMF26OID	56	
SMF26OJC	4C	
SMF26OMC	64	
SMF26OPC	3F	1
SMF26OPD	72	
SMF26OPS	65	
SMF26OPT	6E	
SMF26OSD	6A	
SMF26OST	66	
SMF26OWL	44	
SMF26PDD	90	
SMF26PD3	90	
SMF26PRD	40	
SMF26PRJ	3E	10
SMF26PRR	8C	
SMF26PTR	8	8



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF26PUD	44	
SMF26PUR	8E	
SMF26RID	4A	
SMF26ROM	74	
SMF26RPD	42	
SMF26RPT	3E	
SMF26RSD	26	
SMF26RST	22	
SMF26RSV	32	
SMF26RTY	D	
SMF26RVA	70	
SMF26RV1	3C	
SMF26RV2	3C	
SMF26RV4	3C	
SMF26RV5	3C	
SMF26RV6	85	
SMF26RV8	64	
SMF26R02	38	200
SMF26SBS	36	
SMF26SCN	3E	4
SMF26SEG	A	
SMF26SID	16	
SMF26SJB	BC	40
SMF26SRC	E8	
SMF26STK	3E	20
SMF26STU	3F	40
SMF26SUI	8A	
SMF26SZ1	114	10
SMF26SZ2	114	4C
SMF26SZ3	114	8
SMF26SZ4	114	4
SMF26SZ5	114	4F
SMF26TLN	114	17C
SMF26TME	E	
SMF26TRH	3F	20
SMF26TZ0	109	
SMF26UIF	2A	
SMF26UNL	ED	
SMF26WCL	AC	



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF26WIN	BC	
SMF26WJC	BD	
SMF26WLM	BC	80
SMF26WOC	B4	
SMF26WSE	C5	
SMF26XBC	3F	8
SMF26XBT	40	
SMF26XID	52	
SMF26XLN	42	
SMF26XPD	62	
SMF26XPG	48	
SMF26XPI	62	
SMF26XPS	63	
SMF26XPT	5E	
SMF26XPU	46	
SMF26XSD	5A	
SMF26XST	56	
SMF26XTM	78	
SMF26XWR	64	10
SMF43ANL	22	10
SMF43ASP	1A	5
SMF43BAS	8	
SMF43CLD	22	80
SMF43DSI	22	1
SMF43DTE	12	
SMF43EID	24	
SMF43END	3E	
SMF43FLG	C	
SMF43GBL	22	8
SMF43HOT	22	20
SMF43HSP	1A	2
SMF43INT	28	40404040
SMF43JS3	23	
SMF43J2	20	
SMF43LCL	22	4
SMF43LEN	8	
SMF43LRR	1E	
SMF43L1	28	20
SMF43L2	28	8



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF43NMU	25	
SMF43OPT	23	
SMF43ORG	26	
SMF43PC0	20	
SMF43PJ3	2E	
SMF43PRC	20	40404040
SMF43PTR	8	8
SMF43REF	22	2
SMF43RST	22	
SMF43RSV	1C	
SMF43RTY	D	
SMF43RVJ	32	
SMF43RVU	3A	
SMF43RV1	20	
SMF43RV2	23	
SMF43SBG	22	23
SMF43SBP	1E	20
SMF43SBS	1A	
SMF43SEG	A	
SMF43SID	16	
SMF43SIZ	3E	
SMF43TME	E	
SMF43UNT	26	26
SMF43UN4	26	26
SMF43US1	24	
SMF43WRM	22	40
SMF45ABN	20	80
SMF45ABT	28	20
SMF45ASP	1A	5
SMF45ATM	20	80
SMF45DSI	20	40
SMF45DTE	12	
SMF45END	32	
SMF45FG1	20	
SMF45FLG	C	
SMF45HLT	28	80
SMF45HSP	1A	2
SMF45IND	20	
SMF45JCC	22	



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF45JS3	20	
SMF45J2	8	
SMF45J3C	21	
SMF45LEN	8	
SMF45LRR	1E	
SMF45L1	2C	1C
SMF45L2	2C	4
SMF45N0S	28	10
SMF45NUL	2C	
SMF450PS	28	40
SMF45PC0	20	
SMF45PRC	20	40404040
SMF45PTR	8	8
SMF45RSV	1C	
SMF45RTY	D	
SMF45RVJ	26	
SMF45RVU	2E	
SMF45RV1	24	
SMF45SBG	1E	20
SMF45SBS	1A	
SMF45SEG	A	
SMF45SID	16	
SMF45SIZ	32	
SMF45STF	28	
SMF45TME	E	
SMF45UID	29	
SMF45US1	25	
SMF47A	3C	
SMF47ASP	1A	5
SMF47CWK	20	20
SMF47DPL	34	
SMF47DSL	30	
SMF47DTE	12	
SMF47END	6E	
SMF47EVT	20	
SMF47FLG	C	
SMF47GN	22	
SMF47HSP	1A	2
SMF47JID	28	



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF47LAA	2E	
SMF47LCF	20	
SMF47LEN	8	
SMF47LIN	2C	
SMF47LN1	22	
SMF47LN2	3C	
SMF47LON	20	4
SMF47LRR	1E	
SMF47LTC	24	
SMF47L1	20	1A
SMF47L2	20	26
SMF47L3	20	5A
SMF47L4	20	34
SMF47MSG	3E	
SMF47PCI	2F	
SMF47PC0	20	
SMF47PLI	25	
SMF47PSW	34	
SMF47PTR	8	8
SMF47RMT	24	
SMF47RSV	1C	
SMF47RTY	D	
SMF47RVJ	62	
SMF47RVU	6A	
SMF47SBG	1E	20
SMF47SBS	1A	
SMF47SEG	A	
SMF47SID	16	
SMF47SIZ	6E	
SMF47SON	20	1
SMF47SPA	20	4
SMF47STL	20	2
SMF47TME	E	
SMF47UID	21	
SMF47ULK	20	1
SMF47UNL	20	80
SMF48ADP	58	
SMF48AD4	5B	
SMF48ASP	1A	5



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF48BXL	3C	1C
SMF48B2L	53	1B
SMF48B3L	67	2B
SMF48CAN	20	2
SMF48CDH	4C	
SMF48CNI	20	40
SMF48CNT	28	
SMF48CPD	44	
SMF48CPG	20	10
SMF48CPU	24	
SMF48CT	58	14
SMF48CTD	48	
SMF48CTH	2C	
SMF48CWK	20	20
SMF48DCK	44	
SMF48DID	54	
SMF48DIO	34	
SMF48DSL	3C	
SMF48DSP	40	
SMF48DTE	12	
SMF48END	67	
SMF48ERR	4C	
SMF48ERS	40	
SMF48EVT	20	
SMF48FLG	C	
SMF48FLS	20	
SMF48HSI	20	8
SMF48HSP	1A	2
SMF48IO	3C	
SMF48LAA	50	
SMF48LA4	53	
SMF48LEN	8	
SMF48LIN	2C	
SMF48LOF	20	4
SMF48LRR	1E	
SMF48L1	58	4F
SMF48NAK	40	
SMF48NKS	46	
SMF48OUT	48	



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF48PSW	34	
SMF48PTR	8	8
SMF48RMT	24	
SMF48RPI	20	80
SMF48RSV	1C	
SMF48RTY	D	
SMF48RVJ	5F	
SMF48RVU	63	
SMF48RV1	22	
SMF48SBG	34	3C
SMF48SBP	1E	20
SMF48SBS	1A	
SMF48SEG	A	
SMF48SID	16	
SMF48SIZ	67	
SMF48S0F	20	1
SMF48SPA	20	4
SMF48S0	48	
SMF48S1	49	
SMF48S2	4A	
SMF48S3	4B	
SMF48S4	4C	
SMF48S5	4D	
SMF48S6	4E	
SMF48TID	58	
SMF48TIO	38	
SMF48TME	E	
SMF48TOT	44	
SMF48TRN	3C	
SMF48UID	21	
SMF48ULK	20	1
SMF48USR	4F	
SMF48VIR	30	
SMF48VSD	50	
SMF48XCP	3C	
SMF49A	3C	
SMF49ASP	1A	5
SMF49BND	21	8
SMF49DEF	21	6



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF49DTE	12	
SMF49EJ2	20	
SMF49EJ22	21	
SMF49EJ3	20	
SMF49EJ32	21	
SMF49END	62	
SMF49EVT	20	
SMF49FLG	C	
SMF49FLN	28	
SMF49GEN	22	
SMF49HSP	1A	2
SMF49LEN	8	
SMF49LER	21	4
SMF49LIM	21	5
SMF49LIN	2C	
SMF49LNA	23	
SMF49LN1	22	
SMF49LN2	3C	
SMF49LRR	1E	
SMF49L1	20	1A
SMF49L2	20	26
SMF49L3	20	5A
SMF49MSG	3E	
SMF49NER	21	1
SMF49PC0	20	
SMF49PER	21	2
SMF49PSW	34	
SMF49PTR	8	8
SMF49RMT	24	
SMF49RSV	1C	
SMF49RTY	D	
SMF49RV1	26	
SMF49SBG	1E	20
SMF49SBS	1A	
SMF49SEG	A	
SMF49SID	16	
SMF49SIZ	62	
SMF49SON	21	1
SMF49SPW	21	7



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF49STL	21	2
SMF49TER	21	8
SMF49TME	E	
SMF49UFO	34	
SMF49VID	20	
SMF52DTE	12	C
SMF52END	46	
SMF52FLG	C	0
SMF52IDL	22	0
SMF52IDN	24	0
SMF52IDO	20	0
SMF52IDS	2E	
SMF52LEN	8	
SMF52LID	46	18
SMF52LIN	36	40404040
SMF52LON	26	1
SMF52LPR	46	8
SMF52OFI	46	26
SMF52OFP	46	1E
SMF52OPS	26	
SMF52POF	1A	0
SMF52PRL	1C	0
SMF52PRN	1E	0
SMF52PSW	3E	40404040
SMF52PTR	8	8
SMF52RMT	2E	40404040
SMF52RTY	D	0
SMF52SEG	A	
SMF52SID	16	40404040
SMF52SLN	26	2
SMF52SUB	26	0
SMF52SYS	2A	D1C5E2F2
SMF52TME	E	0
SMF52VER	28	F0F1
SMF53ADP	5A	E2D5C1
SMF53CTR	46	0
SMF53DTE	12	C
SMF53END	5D	
SMF53FLG	C	0



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF53IDL	22	0
SMF53IDN	24	0
SMF53ID0	20	0
SMF53IDS	2E	
SMF53LEN	8	
SMF53LID	5D	2F
SMF53LIN	36	40404040
SMF53LOF	26	1
SMF53LPR	5D	8
SMF530FI	5D	26
SMF530FP	5D	1E
SMF530PS	26	
SMF53PLN	26	2
SMF53PRL	1C	0
SMF53PRN	1E	0
SMF53PRO	1A	0
SMF53PSW	3E	40404040
SMF53PTR	8	8
SMF53RMT	2E	40404040
SMF53RTY	D	0
SMF53SEG	A	
SMF53SID	16	40404040
SMF53SUB	26	0
SMF53SYS	2A	D1C5E2F2
SMF53TME	E	0
SMF53VER	28	F0F1
SMF54DTE	12	C
SMF54END	46	
SMF54FLG	C	0
SMF54IDL	22	0
SMF54IDN	24	0
SMF54ID0	20	0
SMF54IDS	2E	
SMF54LEN	8	
SMF54LON	26	1
SMF540PS	26	
SMF54POF	1A	0
SMF54PRL	1C	0
SMF54PRN	1E	0



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF54PSW	3E	40404040
SMF54PTR	8	8
SMF54RMT	2E	40404040
SMF54RPW	36	40404040
SMF54RTY	D	0
SMF54SEG	A	
SMF54SID	16	40404040
SMF54SUB	26	0
SMF54SYS	2A	D1C5E2F2
SMF54TME	E	0
SMF54VER	28	F0F1
SMF55BSZ	42	0
SMF55CON	29	40
SMF55DTE	12	C
SMF55END	46	
SMF55EN2	D7	
SMF55FG1	29	0
SMF55FLG	C	0
SMF55HNM	58	40404040
SMF55HSP	1A	2
SMF55IPA	46	0
SMF55LEN	8	
SMF55LNM	3A	40404040
SMF55LPW	2A	40404040
SMF55LRR	1E	0
SMF55MEM	28	0
SMF55NNM	20	40404040
SMF55NPW	32	40404040
SMF55PRT	56	0
SMF55PTR	8	8
SMF55RS0	29	80
SMF55RTY	D	0
SMF55SBS	1A	2
SMF55SEC	29	20
SMF55SEG	A	
SMF55SID	16	40404040
SMF55STR	1E	18
SMF55SUB	1C	0
SMF55TME	E	0



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF56BSZ	42	0
SMF56CON	29	40
SMF56DTE	12	C
SMF56END	46	
SMF56EN2	D7	
SMF56FG1	29	0
SMF56FLG	C	0
SMF56HNM	58	40404040
SMF56HSP	1A	2
SMF56IPA	46	0
SMF56LEN	8	
SMF56LNM	3A	40404040
SMF56LPW	2A	40404040
SMF56LRR	1E	0
SMF56MEM	28	0
SMF56NNM	20	40404040
SMF56NPW	32	40404040
SMF56PRT	56	0
SMF56PTR	8	8
SMF56RS0	29	80
SMF56RTY	D	0
SMF56SBS	1A	2
SMF56SEC	29	20
SMF56SEG	A	
SMF56SID	16	40404040
SMF56SUB	1C	0
SMF56TME	E	0
SMF57ACN	60	40404040
SMF57CJD	28	40404040
SMF57CNT	6C	0
SMF57DPS	5C	C
SMF57DSS	54	C
SMF57DTE	12	C
SMF57DVN	48	40404040
SMF57END	70	
SMF57ENN	38	40404040
SMF57ESL	8E	12
SMF57ESS	7C	
SMF57FLG	C	0



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF57HSP	1A	2
SMF57IND	82	
SMF57JDT	84	
SMF57JID	20	40404040
SMF57LEN	8	
SMF57LN1	7C	
SMF57LRR	1E	0
SMF57LSW	78	
SMF57LTP	7A	8
SMF57NNN	40	40404040
SMF57NSW	7A	
SMF57NTP	7A	1
SMF57NTR	70	
SMF57ONN	30	40404040
SMF57OSW	74	
SMF57PTR	8	8
SMF57RTY	D	0
SMF57SBS	1A	2
SMF57SEG	A	
SMF57SGT	7E	
SMF57SID	16	40404040
SMF57SJF	82	80
SMF57STR	1E	18
SMF57SUB	1C	0
SMF57TME	E	0
SMF57TPL	7A	C
SMF57TPS	58	0
SMF57TRP	72	74
SMF57TSI	68	40404040
SMF57TSS	50	0
SMF57TU	8E	
SMF57TUL	8C	
SMF58DTE	12	C
SMF58END	32	
SMF58FLG	C	0
SMF58HSP	1A	2
SMF58LEN	8	
SMF58LNM	2A	40404040
SMF58LRR	1E	0



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF58MEM	28	0
SMF58NNM	20	40404040
SMF58PTR	8	8
SMF58RTY	D	0
SMF58RV1	29	0
SMF58SBS	1A	2
SMF58SEG	A	
SMF58SID	16	40404040
SMF58STR	1E	18
SMF58SUB	1C	0
SMF58TME	E	0
SMF6APAL	77	
SMF6APA1	77	1
SMF6BID	6B	
SMF6BIN	74	
SMF6BIN1	74	80
SMF6BIN2	74	40
SMF6BIN3	74	20
SMF6BIN4	74	10
SMF6BNCT	9	
SMF6BNLE	C	
SMF6BNLN	8	
SMF6BNN0	8	
SMF6BN0F	4A	
SMF6BNUM	A	
SMF6BNWI	E	
SMF6BTS	6B	80
SMF6BYTE	4A	
SMF6CCE	64	2
SMF6CHR	52	
SMF6CPS	4A	
SMF6CSP	6B	20
SMF6DCI	4A	
SMF6DCRV	4A	80
SMF6DDNM	7E	
SMF6DEND	EA	
SMF6DFE	64	
SMF6DIE	3F	4
SMF6DPGL	75	10



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF6DPLS	76	10
SMF6DSIZ	EA	
SMF6DSNM	9E	
SMF6DTE	12	C
SMF6DUPS	75	80
SMF6DUPT	75	40
SMF6EEND	5A	
SMF6EFMN	4E	
SMF6END	7C	
SMF6END2	66	
SMF6ESIZ	5A	
SMF6ESS1	45	10
SMF6FCB	58	
SMF6FDNM	84	
SMF6FEET	68	
SMF6FEND	6C	
SMF6FEXT	45	80
SMF6FLC	6A	
SMF6FLG	C	0
SMF6FLG3	76	
SMF6FLI	66	
SMF6FMDF	70	
SMF6FMN	41	40404040
SMF6FONT	4C	
SMF6FSIZ	6C	
SMF6FTFR	45	8
SMF6FTL	52	
SMF6FTL1	52	1
SMF6GRP	68	
SMF6IGER	75	1
SMF6IMPS	64	
SMF6IND	4E	
SMF6INDC	4B	
SMF6INT	4A	1
SMF6IOE	3F	0
SMF6IP1	4E	
SMF6IP2	4F	
SMF6IP3	50	
SMF6IP4	51	



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF6JBID	66	
SMF6JBN	1A	40404040
SMF6JDVT	50	
SMF6JHPP	76	40
SMF6JNM	4C	
SMF6JTPP	76	20
SMF6J2L3	4B	3
SMF6J2L4	4B	4
SMF6J2S	60	64
SMF6J3L3	4B	3
SMF6J3L4	4B	4
SMF6J3S	64	64
SMF6LEN	8	
SMF6LEV2	4B	1
SMF6LEV3	4B	1
SMF6LEV4	4B	5
SMF6LEV6	4B	6
SMF6LEV7	4B	7
SMF6LFNT	50	
SMF6LN1	48	
SMF6LN2	48	
SMF6LN3	48	
SMF6LN4	48	
SMF6LN5	48	
SMF6LN6	48	
SMF6LOLY	58	
SMF6LPGE	BC	
SMF6LPSG	60	
SMF6LSIZ	7C	
SMF6MID	62	
SMF6NDS	40	0
SMF6NLR	3B	0
SMF6NSF0	7C	
SMF6NSOL	78	
SMF6NSPS	80	
SMF6OCN	4A	20
SMF6OCNM	9C	
SMF6OPJ	6B	40
SMF6OPR	66	



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF60R	4A	8
SMF60RD	4A	10
SMF60SS	4A	2
SMF60TOK	D6	
SMF60UT	50	
SMF60VLY	54	
SMF60WC	32	40
SMF6PAD1	45	0
SMF6PDNM	8C	
SMF6PGDF	6C	
SMF6PGE	60	
SMF6PGOP	75	
SMF6PGSG	5C	
SMF6PQLN	5E	
SMF6PRMD	96	
SMF6PRNM	76	
SMF6PRTQ	60	
SMF6PTDV	94	
SMF6RBE	64	1
SMF6REND	56	
SMF6RES	4A	
SMF6REXT	45	40
SMF6R0R	4A	4
SMF6ROUT	4A	
SMF6RSD	26	C
SMF6RSIZ	56	
SMF6RST	22	0
SMF6RSV	4F	
SMF6RSVJ	70	
SMF6RSVU	78	
SMF6RTE	64	
SMF6RTY	D	0
SMF6SBS	46	
SMF6SDS	4A	40
SMF6SECS	8E	
SMF6SEG	A	
SMF6SEND	C0	
SMF6SETU	9C	
SMF6SEXT	45	20



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF6SGID	4A	
SMF6SID	16	40404040
SMF6SIZ	7C	
SMF6SIZ2	66	
SMF6SIZ3	66	
SMF6SJF	4E	80
SMF6SLIG	76	80
SMF6S0ER	75	2
SMF6SPGL	75	4
SMF6SSIZ	C0	
SMF6STNM	6E	
SMF6SUCC	75	8
SMF6SYSA	75	20
SMF6TEND	78	
SMF6TME	E	0
SMF6TSIZ	78	
SMF6TU	5A	
SMF6TUL	58	
SMF6UCS	5C	
SMF6UIF	2A	40404040
SMF6UPAS	76	8
SMF6URI	78	
SMF6URIL	5C	
SMF6USID	86	
SMF6WSD	37	C
SMF6WST	33	0
SMF84ASP	12	5
SMF84DTE	A	
SMF84FLG	4	
SMF84FL1	16	
SMF84GNL	28	
SMF84GNN	2A	
SMF84GNS	24	
SMF84GS	0	
SMF84HAS	12	2
SMF84HDR	0	
SMF84JRU	0	
SMF84J1L	30	
SMF84J1N	32	



Table 235. Cross Reference for \$SMF (continued)

Name	Offset	Hex Tag
SMF84J10	2C	
SMF84LEN	0	
SMF84LST	16	80
SMF84PRL	20	
SMF84PRN	22	
SMF84PRO	0	
SMF84PRS	1C	
SMF84PTR	0	0
SMF84RTY	5	
SMF84SBS	12	
SMF84SEG	2	
SMF84SGN	14	
SMF84SID	E	
SMF84STI	4	40
SMF84STY	18	
SMF84SZ1	32	34
SMF84TME	6	
SMF84TRN	1A	
SMF84VER	17	
SMF84V2	17	2
SMF84V3	17	3

## \$SNFWORK information

### \$SNFWORK heading information

<b>Common name:</b>	JES2 SPOOL Sniffer Work Area
<b>Macro ID:</b>	\$SNFWORK
<b>DSECT name:</b>	PCE (\$SNFWORK is part of the PCE DSECT)
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'PCE ' Offset: PCEEYE-PCE Length: 4
<b>Storage attributes:</b>	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
<b>Size:</b>	See symbol SNWPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
<b>Created by:</b>	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 mapping

Table 236. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	BITSTRING	6	SNWLSNIF(0)	Extent, offset within extent and bit within byte of last sniffed
342	(156)	BITSTRING	2		Reserved for future use
344	(158)	ADDRESS	4	SNWQUEUE	Anchor for immediate work to do queue
348	(15C)	BITSTRING	1	SNWFLAG1	Flags
	..1. ....			SNW1BADT	"B'00100000" Sniffing bad trackgroup
	.... 1...			SNW1MFID	"B'00001000" Inactive DAS found during examination of DASes for mini fmt
349	(15D)	BITSTRING	3		Available for use by IBM
352	(160)	SIGNED	4		Reserved for future use
356	(164)	BITSTRING	12	SNWTQE	TQE for SNFWAIT processing
368	(170)	BITSTRING	5	SNWMQT	MQT for next sniffing
373	(175)	BITSTRING	1		Reserved for future use
<p>The following field represents the M00B (extent offset bit) of the track group of a DAS whose DAS3EFWZ flag is off. This track group signature record will be re-written with zeros if its SIGJBKEY field in signature record contains FFs and TG is not allocated.</p>					
374	(176)	BITSTRING	6	SNWMFMOB	Extent number, Extent TG offset and bit of track group of a DAS whose DAS3EFWZ is off(will be mini reformatted with zeros)
384	(180)	DBL WORD	8	(0)	Force double-word alignment
384	(180)	X'30'	0	SNWPCEWS	"*-PCEWORK" Length of work area

Table 237. Cross Reference for \$SNFWORK

Name	Offset	Hex Tag
PCE	0	
SNWFLAG1	15C	
SNWLSNIF	150	
SNWMFMOB	176	



Table 237. Cross Reference for \$SNFWORK (continued)

Name	Offset	Hex Tag
SNWMQT	170	
SNWPCEWS	180	30
SNWQUEUE	158	
SNWTQE	164	
SNW1BADT	15C	20
SNW1MFID	15C	8

## \$SPIWORK information

### \$SPIWORK heading information

<b>Common name:</b>	JES2 Sysout API Work Area
<b>Macro ID:</b>	\$SPIWORK
<b>DSECT name:</b>	PCE (\$SPIWORK is part of the PCE DSECT)
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'PCE ' Offset: PCEEYE-PCE Length: 4
<b>Storage attributes:</b>	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
<b>Size:</b>	See symbol SPIWKSIZ for the length of this work area. The overall length of the PCE is stored in field PCELENG.
<b>Created by:</b>	See \$PCE
<b>Pointed to by:</b>	The \$SPIPCE 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.
<b>Serialization:</b>	Normal PCE dispatch serialization
<b>Function:</b>	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 mapping

Table 238. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	BITSTRING	228	SPIWS	WS EBCDIC list
564	(234)	SIGNED	4	SPIWKOFF	Offset of work JOE
568	(238)	SIGNED	2	SPI#PDDB	Number of PDDBs processed in SSI
570	(23A)	SIGNED	2	SPIPDDB#	Number of PDDBs processed in SASR
572	(23C)	BITSTRING	1	SPIFLAG1	Copy of SAPFLAG1
573	(23D)	BITSTRING	1	SPIFLAGJ	Copy of SAPFLAGJ
574	(23E)	BITSTRING	1	SPIFLAGS	Local (SASR) flags
	1... ....			SPISDISC	"B'10000000" Discard the data sets that have been processed in this JOE
	.1.. ....			SPISDUPJ	"B'01000000" Caller wants to reject job if there is another with same name
	..1. ....			SPISJOE	"B'00100000" JOE handled by SAIDISP
	...1 ....			SPISJLOK	"B'00010000" SAIDISP has job lock
575	(23F)	CHARACTER	1	SPIMCLAS	Message class of job
576	(240)	BITSTRING	1	SPIFLAG3	Copy of SAPFLAG3
577	(241)	BITSTRING	1	SPIFLAG2	Copy of SAPFLAG2
578	(242)	BITSTRING	1	SPIFLAG4	Copy of SAPFLAG4
579	(243)	BITSTRING	9		Reserved for future use
588	(24C)	SIGNED	4	SPIWRNUM	Thread level value used for JWEL proc
592	(250)	BITSTRING	8	SPIWRASI	Address space level value used for JWEL processing
600	(258)	BITSTRING	3	SPIDEVID	Device ID
603	(25B)	BITSTRING	1	SPIFLGJ2	Copy of SAPFLGJ2
604	(25C)	SIGNED	4	SPIRECCT	PDDB record count
608	(260)	SIGNED	4	SPIPGCT	PDDB page count
612	(264)	SIGNED	4	SPIOJOE	Offset of prior JOE
616	(268)	SIGNED	4	SPIOCRTM	Create time of JOE
620	(26C)	BITSTRING	4		Reserved
624	(270)	DBL WORD	8	(0)	Alignment
624	(270)	BITSTRING	232	SPIRGRPM	Parameter list for TREGROUP
856	(358)	BITSTRING	180	SPIWKJOA	Temporary JOA
1036	(40C)	SIGNED	4	SPIXECB(0)	SAPID queue mod ENQ ECB MACDATE -01/23/13-<2>
	.... ...1			SPIXENQ_XCOND_NO	"X'01' "
	.... ...1.			SPIXENQ_XCOND_YES	"X'02' "
	.... ...1			SPIXENQ_XREQUEST_OBTAIN	"X'01' "
	.... ...1.			SPIXENQ_XREQUEST_CHANGE	"X'02' "
	.... ...11			SPIXENQ_XREQUEST_RELEASE	"X'03' "
0	(0)	X'428'	0	M00M1563	"SPIXENQ" ++ ISGENQ NAME
1064	(428)	DBL WORD	8	SPIXENQ(0)	++ ISGENQ PARM LIST
1064	(428)	BITSTRING	1	SPIXENQ_XVERSION	++ INPUT XVERSION
1065	(429)	CHARACTER	1	SPIXENQ_XRSV0000	++ RESERVED
1066	(42A)	BITSTRING	1	SPIXENQ_XSCOPE	++ XSCOPE
1066	(42A)	X'1'	0	SPIXENQ_XSCOPE_STEP	"1" ++ XSCOPE.STEP KEYWORD



Table 238. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1066	(42A)	X'2'	0	SPIXENQ_XSCOPE_SYSTEM	"2" ++ XSCOPE.SYSTEM KEYWORD
1066	(42A)	X'3'	0	SPIXENQ_XSCOPE_SYSTEMS	"3" ++ XSCOPE.SYSTEMS KEYWORD
1066	(42A)	X'3'	0	SPIXENQ_XSCOPE_SYSPLEX	"3" ++ XSCOPE.SYSPLEX KEYWORD
1067	(42B)	BITSTRING	1	SPIXENQ_XCONTROL	++ XCONTROL
1067	(42B)	X'1'	0	SPIXENQ_XCONTROL_SHARED	"1" ++ XCONTROL.SHARED KEYWORD
1067	(42B)	X'2'	0	SPIXENQ_XCONTROL_EXCLUSIVE	"2" ++ XCONTROL.EXCLUSIVE KEYWORD
1068	(42C)	BITSTRING	1	SPIXENQ_XFLAGS1	++ FIELD_LABEL
		.1.. ....		SPIXENQ_XTEST_YES	"B'01000000'" ++ XTEST.YES KEYWORD
		..1. ....		SPIXENQ_XCONTENTIONACT_FAIL	"B'00100000'" ++ XCONTENTIONACT.FAIL KEYWORD
		...1 ....		SPIXENQ_XWAITTYPE_ECB	"B'00010000'" ++ XWAITTYPE.ECB KEYWORD
		.... 1...		SPIXENQ_XRESLIST_YES	"B'00001000'" ++ XRESLIST.YES KEYWORD
		.... .1..		SPIXENQ_XENQMAX_NO	"B'00000100'" ++ XENQMAX.NO KEYWORD
		.... ..1.		SPIXENQ_XRNL_NO	"B'00000010'" ++ XRNL.NO KEYWORD
		.... ...1		SPIXENQ_XQNAME_DO_NOT_OVERRIDE	"B'00000001'" ++ XQNAME.DO_NOT_OVERRIDE KEYWORD
1069	(42D)	BITSTRING	1	SPIXENQ_XFLAGS2	++ FIELD_LABEL
		1... ....		SPIXENQ_XRESERVEVOLUME_YES	"B'10000000'" ++ XRESERVEVOLUME.YES KEYWORD
		.1.. ....		SPIXENQ_XSYNCHRES_YES	"B'01000000'" ++ XSYNCHRES.YES KEYWORD
		..1. ....		SPIXENQ_XSYNCHRES_NO	"B'00100000'" ++ XSYNCHRES.NO KEYWORD
		...1 ....		SPIXENQ_XCONTROL_DO_NOT_OVERRIDE	"B'00010000'" ++ XCONTROL.DO_NOT_OVERRIDE KEYWORD
		.... 1...		SPIXENQ_XSCOPE_DO_NOT_OVERRIDE	"B'00001000'" ++ XSCOPE.DO_NOT_OVERRIDE KEYWORD
		.... .1..		SPIXENQ_XRNL_DO_NOT_OVERRIDE	"B'00000100'" ++ XRNL.DO_NOT_OVERRIDE KEYWORD
		.... ..1.		SPIXENQ_XSYNCHRES_DO_NOT_OVERRIDE	"B'00000010'" ++ XSYNCHRES.DO_NOT_OVERRIDE KEYWORD
		.... ...1		SPIXENQ_XRNAME_DO_NOT_OVERRIDE	"B'00000001'" ++ XRNAME.DO_NOT_OVERRIDE KEYWORD
1070	(42E)	BITSTRING	1	SPIXENQ_XFLAGS3	++ FIELD_LABEL
		1... ....		SPIXENQ_KEYUSED_CONTROL	"B'10000000'" ++ KEYUSED.CONTROL KEYWORD
		.... ...1		SPIXENQ_XRNAMELEN_DO_NOT_OVERRIDE	"B'00000001'" ++ XRNAMELEN.DO_NOT_OVERRIDE KEYWORD
1071	(42F)	BITSTRING	1	SPIXENQ_XFLAGS4	++ FIELD_LABEL
		.... ...1		SPIXENQ_XUCB@_DO_NOT_OVERRIDE	"B'00000001'" ++ XUCB@.DO_NOT_OVERRIDE KEYWORD
1072	(430)	ADDRESS	8	SPIXENQ_XRESTABLE_ADDR3164	++ ADDR3164



Table 238. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1080	(438)	ADDRESS	8	SPIXENQ_XENQTOKEN_ADDR3164	++ ADDR3164
1088	(440)	ADDRESS	8	SPIXENQ_XRETURNTABLE_ADDR3164	
1096	(448)	ADDRESS	8	SPIXENQ_XENQTOKENTBL_ADDR3164	
1104	(450)	ADDRESS	8	SPIXENQ_XRNAME_ADDR3164	++ ADDR3164
1112	(458)	ADDRESS	8	SPIXENQ_XANSAREA_ADDR3164	++ ADDR3164
1120	(460)	CHARACTER	8	SPIXENQ_XQNAME	++
1128	(468)	CHARACTER	16	SPIXENQ_XOWNINGTTOKEN	++
1144	(478)	SIGNED	4	SPIXENQ_XRESTABLE_ALET	++ ALET
1148	(47C)	SIGNED	4	SPIXENQ_XENQTOKEN_ALET	++ ALET
1152	(480)	SIGNED	4	SPIXENQ_XRETURNTABLE_ALET	++ ALET
1156	(484)	SIGNED	4	SPIXENQ_XENQTOKENTBL_ALET	++ ALET
1160	(488)	SIGNED	4	SPIXENQ_XRNAME_ALET	++ ALET
1164	(48C)	SIGNED	4	SPIXENQ_XANSAREA_ALET	++ ALET
1168	(490)	SIGNED	4	SPIXENQ_XANSLEN	++
1172	(494)	ADDRESS	4	SPIXENQ_XECB@	++
1176	(498)	ADDRESS	4	SPIXENQ_XUCB@	++
1180	(49C)	BITSTRING	2	SPIXENQ_XNUMRES	++
1182	(49E)	BITSTRING	1	SPIXENQ_XNAMELEN	++
1183	(49F)	CHARACTER	1	SPIXENQ_XRSV0001	++ RESERVED
1184	(4A0)	CHARACTER	8	SPIXENQ_XRSVNNNN	++ RESERVED
1184	(4A0)	X'4A8'	0	SPIXENQ_PL_END	"*" ++ END OF BASE PLIST
1066	(42A)	BITSTRING	1	SPIXENQ_XSCOPEVAL	++
1067	(42B)	BITSTRING	1	SPIXENQ_XCONTROLVAL	++
1192	(4A8)	X'80'	0	SPIXENQL	"*-SPIXENQ" ++ LENGTH OF PLIST
ISGENQ-2					
1192	(4A8)	BITSTRING	32	SPILOCKET	SAPI ISGENQ token
1224	(4C8)	ADDRESS	4	SPIIOT	Address of IOT buffer
1228	(4CC)	BITSTRING	4	SPIJBKEY	Job key
1232	(4D0)	BITSTRING	6	SPIANCHR	MQTR of first regular IOT
1238	(4D6)	BITSTRING	50	SPIPRTB	Room for PRMODE table
1288	(508)	SIGNED	1	SPITYPE	Type of SSI call (See SSS2TYPE in IAZSS2)
1289	(509)	BITSTRING	1		Reserved for future use
1292	(50C)	ADDRESS	4	(0)	Align on full word
1292	(50C)	CHARACTER	8	SPIAJOB	Application jobname
1300	(514)	CHARACTER	8	SPIAJOB	Application jobid
1308	(51C)	CHARACTER	8	SPIACHKY	Application CSCB CHKEY
1316	(524)	BITSTRING	4	SPIIOTF	MTTR of first IOT in JOE
1320	(528)	SIGNED	2	SPIPDDBF	PDDB offset of first PDDB in JOE
1322	(52A)	BITSTRING	2		Reserved for future use
1324	(52C)	CHARACTER	8	SPITHRED	Thread name (from SSS2APPL)
1332	(534)	ADDRESS	4	SPIJOA	Address of BERT locked JOA
1336	(538)	ADDRESS	4	SPIMTRB	Address of current MTRB
1344	(540)	DBL WORD	8	(0)	Align on a double word
1344	(540)	BITSTRING	32	SPISTPR	Perf data when MTRB select



Table 238. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1376	(560)	BITSTRING	32	SPICURPR	Perf data when MTRB return
1408	(580)	DBL WORD	8	SPIGETCP	CPU time for \$#GET
1416	(588)	CHARACTER	17	SPIDEVN	Current SAPI device name
1433	(599)	BITSTRING	1	SPIRLFLG	Flags set in ROTESFL1
1434	(59A)	BITSTRING	2		Reserved
1436	(59C)	SIGNED	4	SPIIOCNT	I/O count field
1440	(5A0)	DBL WORD	8	SPIRQUET	\$RQUE queue time
1448	(5A8)	SIGNED	4	SPIRTJNM	Job number and JOE offset
1452	(5AC)	SIGNED	4	SPIRTJOF	of returned JOE
1456	(5B0)	DBL WORD	8	(0)	Multiple Double words long
1456	(5B0)	X'460'	0	SPIWKSIZ	"*-PCEWORK" LENGTH OF PSO PCE WORK AREA

Table 239. Cross Reference for \$SPIWORK

Name	Offset	Hex Tag
M00M1563	0	428
PCE	0	
SPI#PDDB	238	
SPIACHKY	51C	
SPIAJOBI	514	
SPIAJOBN	50C	
SPIANCHR	4D0	
SPICURPR	560	
SPIDEVID	258	
SPIDEVN	588	
SPIFLAGJ	23D	
SPIFLAGS	23E	
SPIFLAG1	23C	
SPIFLAG2	241	
SPIFLAG3	240	
SPIFLAG4	242	
SPIFLGJ2	25B	
SPIGETCP	580	
SPIIOCNT	59C	
SPIIOT	4C8	
SPIIOTF	524	
SPIJBKEY	4CC	
SPIJOA	534	
SPICKET	4A8	
SPISTPR	540	
SPIMCLAS	23F	



Table 239. Cross Reference for \$SPIWORK (continued)

Name	Offset	Hex Tag
SPIMTRB	538	
SPIOCRTM	268	
SPIOJOE	264	
SPIPDBB#	23A	
SPIPDBBF	528	
SPIPGCT	260	
SPIPRTBL	4D6	
SPIRECCT	25C	
SPIRGRPM	270	
SPIRLFLG	599	
SPIRQUET	5A0	
SPIRTJNM	5A8	
SPIRTJOF	5AC	
SPISDISC	23E	80
SPISDUPJ	23E	40
SPISJLOK	23E	10
SPISJOE	23E	20
SPITHRED	52C	
SPITYPE	508	
SPIWKJOA	358	
SPIWKOFF	234	
SPIWKSIZ	5B0	460
SPIWRASI	250	
SPIWRNUM	24C	
SPIWS	150	
SPIXECB	40C	
SPIXENQ	428	
SPIXENQ_KEYUSED_CONTROL	42E	80
SPIXENQ_PL_END	4A0	4A8
SPIXENQ_XANSAREA_ADDR3164	458	
SPIXENQ_XANSAREA_ALET	48C	
SPIXENQ_XANSLEN	490	
SPIXENQ_XCOND_NO	0	1
SPIXENQ_XCOND_YES	0	2
SPIXENQ_XCONTENTIONACT_FAIL	42C	20
SPIXENQ_XCONTROL	42B	
SPIXENQ_XCONTROL_DO_NOT_OVERRIDE	42D	10
SPIXENQ_XCONTROL_EXCLUSIVE	42B	2
SPIXENQ_XCONTROL_SHARED	42B	1



Table 239. Cross Reference for \$SPIWORK (continued)

Name	Offset	Hex Tag
SPIXENQ_XCONTROLVAL	42B	
SPIXENQ_XECB@	494	
SPIXENQ_XENQMAX_NO	42C	4
SPIXENQ_XENQTOKEN_ADDR3164	438	
SPIXENQ_XENQTOKEN_ALET	47C	
SPIXENQ_XENQTOKENTBL_ADDR3164	448	
SPIXENQ_XENQTOKENTBL_ALET	484	
SPIXENQ_XFLAGS1	42C	
SPIXENQ_XFLAGS2	42D	
SPIXENQ_XFLAGS3	42E	
SPIXENQ_XFLAGS4	42F	
SPIXENQ_XNUMRES	49C	
SPIXENQ_XOWNINGTTOKEN	468	
SPIXENQ_XQNAME	460	
SPIXENQ_XQNAME_DO_NOT_OVERRIDE	42C	1
SPIXENQ_XREQUEST_CHANGE	0	2
SPIXENQ_XREQUEST_OBTAIN	0	1
SPIXENQ_XREQUEST_RELEASE	0	3
SPIXENQ_XRESERVEVOLUME_YES	42D	80
SPIXENQ_XRESLIST_YES	42C	8
SPIXENQ_XRESTABLE_ADDR3164	430	
SPIXENQ_XRESTABLE_ALET	478	
SPIXENQ_XRETURNTABLE_ADDR3164	440	
SPIXENQ_XRETURNTABLE_ALET	480	
SPIXENQ_XRNAME_ADDR3164	450	
SPIXENQ_XRNAME_ALET	488	
SPIXENQ_XRNAME_DO_NOT_OVERRIDE	42D	1
SPIXENQ_XRNAMELEN	49E	
SPIXENQ_XRNAMELEN_DO_NOT_OVERRIDE	42E	1
SPIXENQ_XRNL_DO_NOT_OVERRIDE	42D	4
SPIXENQ_XRNL_NO	42C	2
SPIXENQ_XRSVNNNN	4A0	
SPIXENQ_XRSV0000	429	
SPIXENQ_XRSV0001	49F	
SPIXENQ_XSCOPE	42A	
SPIXENQ_XSCOPE_DO_NOT_OVERRIDE	42D	8
SPIXENQ_XSCOPE_STEP	42A	1
SPIXENQ_XSCOPE_SYSPLEX	42A	3
SPIXENQ_XSCOPE_SYSTEM	42A	2



Table 239. Cross Reference for \$SPIWORK (continued)

Name	Offset	Hex Tag
SPIXENQ_XSCOPE_SYSTEMS	42A	3
SPIXENQ_XSCOPEVAL	42A	
SPIXENQ_XSYNCHRES_DO_NOT_OVERRIDE	42D	2
SPIXENQ_XSYNCHRES_NO	42D	20
SPIXENQ_XSYNCHRES_YES	42D	40
SPIXENQ_XTEST_YES	42C	40
SPIXENQ_XUCB@	498	
SPIXENQ_XUCB@_DO_NOT_OVERRIDE	42F	1
SPIXENQ_XVERSION	428	
SPIXENQ_XWAITTYPE_ECB	42C	10
SPIXENQL	4A8	80

## \$SPMWORK information

### \$SPMWORK programming interface information

\$SPMWORK is a programming interface.

### \$SPMWORK heading information

<b>Common name:</b>	JES2 Spool Manager Work Area
<b>Macro ID:</b>	\$SPMWORK
<b>DSECT name:</b>	PCE (\$SPMWORK is part of the PCE DSECT)
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'PCE ' Offset: PCEEYE-PCE Length: 4
<b>Storage attributes:</b>	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
<b>Size:</b>	See symbol SPMLNGTH for the length of this work area. The overall length of the PCE is stored in field PCELENG.
<b>Created by:</b>	See \$PCE
<b>Pointed to by:</b>	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.
<b>Serialization:</b>	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 mapping**

Table 240. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP SPOOL MANAGER PROCESSOR
336	(150)	BITSTRING	1	SPMXECB	XECB TO POST SPOOL MANAGER PCE
SMMOVER - MOVE ROUTINE WORK AREA					
360	(168)	ADDRESS	4	SPMJCTBF	POINTER TO JCT BUFFER
364	(16C)	ADDRESS	4	SPMALLOC	POINTER TO ALLOCATION IOT BUFFER
368	(170)	ADDRESS	4	SPMIOTBF	POINTER TO SECONDARY IOT BUFFER
372	(174)	ADDRESS	4	SPMCURBF	POINTER TO CURRENT I/O BUFFER
376	(178)	ADDRESS	4	SPMNXTBF	POINTER TO SECONDARY I/O BUFFER
380	(17C)	BITSTRING	6	SPMWRTK	Track address (MQTR) for next buffer write.
386	(182)	BITSTRING	6	SPMRDTRK	Track address (MQTR) for next buffer read
392	(188)	BITSTRING	6	SPMIOTRG	Track address (MQTR) of first regular IOT
398	(18E)	BITSTRING	6	SPMIOTSP	Track address (MQTR) of spin IOT chain
404	(194)	BITSTRING	6	SPMOCTTK	Track address (MQTR) of OCT chain
410	(19A)	CHARACTER	8	SPMTOKEN	PIN token for \$GETUCBS
420	(1A4)	SIGNED	4	(0)	Ensure fullword <-- alignment in case SPMSG   is used for WTOR
420	(1A4)	BITSTRING	120	SPMSG	Message work area <--
540	(21C)	BITSTRING	1	SPMREPLY	Reply area
541	(21D)	BITSTRING	1	SPMFLAG1	Spool Manager flag byte
542	(21E)	BITSTRING	2		Reserved
\$BLDMSG MF=L Used for \$BLDMSG					
544	(220)	SIGNED	4	SPMBLDM(0)	Control block ID
548	(224)	BITSTRING	4		Console ID
552	(228)	ADDRESS	4		Address of the CART
556	(22C)	ADDRESS	4		Pointer for JOBID
560	(230)	ADDRESS	4		Control block address
564	(234)	ADDRESS	4		Display routine address
568	(238)	ADDRESS	4	(6)	6 word work area
592	(250)	ADDRESS	4		Caller's R11 value
596	(254)	BITSTRING	2		ROUT code for Message
598	(256)	BITSTRING	2		Not used
600	(258)	CHARACTER	4		Message ID



Table 240. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
604	(25C)	CHARACTER	1		Separator character
605	(25D)	ADDRESS	1		Flag byte 1
606	(25E)	ADDRESS	1		'DISPER'
607	(25F)	ADDRESS	1		Flag byte 2
608	(260)	ADDRESS	1		Flag byte 3
609	(261)	ADDRESS	1		Severity of message
610	(262)	CHARACTER	8		Symbolic name of dest.
618	(26A)	BITSTRING	14		Not used
632	(278)	ADDRESS	4	(0)	Ensure multiple of 4
632	(278)	ADDRESS	2	(0)	
632	(278)	SIGNED	4	(0)	ENSURE FULLWORD ALIGNMENT
632	(278)	BITSTRING	13	SPMDASWK	DAS indicators save area
645	(285)	BITSTRING	3		Reserved
648	(288)	DBL WORD	8	SPMGSTRT(2)	STCKE SMCMGNEW last entered
648	(288)	X'148'	0	SPMLNGTH	"*-PCEWORK" SPMWORK LENGTH
SPMFLAG1 FIRST FLAG BYTE DEFINITIONS					

1... ....	SPM1ERR	"B'10000000'" ERROR ENCOUNTERED DURING JOB MOVE
.1... ....	SPM1TGA	"B'01000000'" AT LEAST ONE TG ALLOC FOR MOVE
..1. ....	SPM1STUN	"B'00100000'" DADSTUNT called

Table 241. Cross Reference for \$SPMWORK

Name	Offset	Hex Tag
PCE	0	
SPMALLOC	16C	
SPMBLDM	220	C2D3C440
SPMCURBF	174	
SPMDASWK	278	
SPMFLAG1	21D	
SPMGSTRT	288	
SPMIOTBF	170	
SPMIOTRG	188	0
SPMIOTSP	18E	0
SPMJCTBF	168	
SPMLNGTH	288	148
SPMNXTBF	178	
SPMOCTTK	194	0
SPMRDTRK	182	0
SPMREPLY	21C	0
SPMSG	1A4	0
SPMTOKEN	19A	40404040



Table 241. Cross Reference for \$SPNWORK (continued)

Name	Offset	Hex Tag
SPMWRTRK	17C	0
SPMXECB	150	0
SPM1ERR	288	80
SPM1STUN	288	20
SPM1TGA	288	40

## \$SPNWORK information

### \$SPNWORK programming interface information

\$SPNWORK is a programming interface.

### \$SPNWORK heading information

<b>Common name:</b>	Spin Work Area
<b>Macro ID:</b>	\$SPNWORK
<b>DSECT name:</b>	PCE (\$SPNWORK is part of the PCE DSECT)
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'PCE ' Offset: PCEEYE-PCE Length: 4
<b>Storage attributes:</b>	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
<b>Size:</b>	See symbol SPNWKSIZ for the length of this work area. The overall length of the PCE is stored in field PCELENG.
<b>Created by:</b>	See \$PCE
<b>Pointed to by:</b>	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.
<b>Serialization:</b>	Normal PCE dispatch serialization
<b>Function:</b>	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 PCESPNID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.



## \$SPNWORK mapping

Table 242. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP Spin Processor
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.)					
336	(150)	SIGNED	2		Reserved for future use
		.... ...1		SPNPCEOD	"B'00000001" Odd numbered spin PCE
338	(152)	BITSTRING	1	SPNFLAG1	Spin flag byte 1
		1... ....		SPN1DIS	"B'10000000" PCE is disabled
		.1.. ....		SPN1QSUS	"B'01000000" PCE needs the queues
		..1. ....		SPN1JBLK	"B'00100000" PCE needs the job lock
		...1 ....		SPN1MTHR	"B'00010000" SPFIFO processing mothers
		.... ...1.		SPN1RGLM	"B'00000010" Rsrc grp JOE limit exceeded
		.... ...1		SPN1RSLE	"B'00000001" JOE rsrc limit exceeded
339	(153)	BITSTRING	1		Reserved for future use
340	(154)	SIGNED	4	SPNIOTBF	Address of IOT buffer chain
344	(158)	SIGNED	4	SPNTEMP	Temporary storage
348	(15C)	ADDRESS	4	SPNJOAA	Address of buffer containing prototype JOA
352	(160)	SIGNED	4	SPNJOAL	Length of buffer containing prototype JOA
356	(164)	SIGNED	4	SPNJCTBF	Address of JCT buffer
360	(168)	BITSTRING	4	SPNJBKEY	JCT Job Identifier Key
364	(16C)	SIGNED	4	SPNERA	Address of ERA
368	(170)	DBL WORD	8	SPNABTIM	Time of last abend by PCE
376	(178)	ADDRESS	4	SPNTRCE(0)	Spin PCE trace entry
408	(198)	SIGNED	4	SPNIOTTR	Save area for track address of next IOT in spin chain
412	(19C)	SIGNED	4	SPNMOMTR	Save area for mom MOC MTTR
416	(1A0)	SIGNED	4	SPNMOMRC	Save area for mom's record
420	(1A4)	SIGNED	4	SPNMOMPG	Save area for mom's page
424	(1A8)	SIGNED	4	SPNMOMBT	Save area for mom's byte
428	(1AC)	BITSTRING	4	SPNONEUN	Single UNSPUN MTTR or zero
432	(1B0)	ADDRESS	4	SPNOFFJQ	Offset of first JOE for which job lock not avail
436	(1B4)	CHARACTER	32	SPNNOTPL	Parm list storage for \$HNOTIFY call from DSAL
468	(1D4)	BITSTRING	1	SPNCTKNO	Old CTOKEN work area
Resource management entry for JOEs mapped by LRMENTRY in \$RESGRP.					
548	(224)	BITSTRING	32	SPNJORME	JOE rsrc management entry
580	(244)	BITSTRING	12		Reserved for future use
592	(250)		1	SPNPWAIT	Time PCE last \$WAITED
592	(250)	X'110'	0	SPNWKSIZ	"*-PCEWORK" Size of Spin PCE work area



Table 243. Cross Reference for \$SPNWORK

Name	Offset	Hex Tag
PCE	0	
SPNABTIM	170	
SPNCTKNO	1D4	
SPNERA	16C	
SPNFLAG1	152	
SPNIOTBF	154	
SPNIOTTR	198	
SPNJBKEY	168	
SPNJCTBF	164	
SPNJOAA	15C	
SPNJOAL	160	
SPNJORME	224	
SPNMOMBT	1A8	
SPNMOMPG	1A4	
SPNMOMRC	1A0	
SPNMOMTR	19C	
SPNNOTPL	1B4	
SPNOFFJQ	1B0	
SPNONEUN	1AC	
SPNPCEOD	150	1
SPNPWAIT	250	
SPNTEMP	158	
SPNTRCE	178	
SPNWKSIK	250	110
SPN1DIS	152	80
SPN1JBLK	152	20
SPN1MTHR	152	10
SPN1QSUS	152	40
SPN1RGLM	152	2
SPN1RSLE	152	1

## \$SPOOLCB information

### \$SPOOLCB programming interface information

\$SPOOLCB is a programming interface.

### \$SPOOLCB heading information

**Common name:** SPOOL information data CB

**Macro ID:** \$SPOOLCB



**DSECT name:** SPCB

**Owning component:** JES2 (SC1BH)

**Eye-catcher ID:** SPCB  
Offset: SPCBID-SPCB  
Length: L'SPCID

**Storage attributes:** Subpool: 0  
Key: 1  
Residency: Virtual and real storage are in 31 bit storage in the private storage of the JES2 address space.

**Size:** See SPCBLEN

**Created by:** HASPIRMA

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

**Serialization:** None required

**Function:** Maps the constants for SPOOL processing (Set by JES2 initialization statements).

## \$SPOOLCB mapping

Table 244. Structure SPCB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SPCB	, SPOOL information control block
0	(0)	CHARACTER	4	SPCBID	Eyecatcher
4	(4)	CHARACTER	44	SPCBDSN	SPOOL data set name
48	(30)	CHARACTER	44	SPCBDSMS	SPOOL data set name mask
92	(5C)	BITSTRING	1	SPCFLAGD	Local testing flag
		1... ..		SPCDABS	"B'10000000'" Use absolute addressing
		.1... ..		SPCDHIGH	"B'01000000'" Use high M values
93	(5D)	BITSTRING	1	SPCNORTK	Records per track based on \$BUFSIZE and a 3390 device
94	(5E)	BITSTRING	2	SPCTPGLO	Tracks per TG low
96	(60)	BITSTRING	2	SPCTPGHI	and high
100	(64)	SIGNED	4	SPCCOOLT	Spool Migr cool down timer
104	(68)	SIGNED	4	SPCHEART	Spool Migr heartbeat timer
108	(6C)	SIGNED	4	SPCKPTLV	Last SPOOLDEF change level
112	(70)	SIGNED	2	SPCTGSIZ	Prior (old) TG size value
114	(72)	BITSTRING	2		Reserved
116	(74)	CHARACTER	44	SPCBDSM	Prior (old) SPOOL DS mask
160	(A0)	DBL WORD	8	(0)	Align length
160	(A0)	X'A0'	0	SPCBLEN	"*-SPCB" Length of data area

Table 245. Cross Reference for \$SPOOLCB

Name	Offset	Hex Tag
SPCB	0	
SPCBDSMS	30	
SPCBDSN	4	



Table 245. Cross Reference for \$SPOOLCB (continued)

Name	Offset	Hex Tag
SPCBID	0	
SPCBLEN	A0	A0
SPCBODSM	74	
SPCCOOLT	64	
SPCDABS	5C	80
SPCDHIGM	5C	40
SPCFLAGD	5C	
SPCHEART	68	
SPCKPTLV	6C	
SPCNORTK	5D	
SPCTGSIZ	70	
SPCTPGHI	60	
SPCTPGLO	5E	

## \$SQD information

### \$SQD programming interface information

\$SQD is a programming interface.

### \$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 mapping**

Table 246. Structure SQD

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SQD	
0	(0)	CHARACTER	4	SQDID	Control block ID
4	(4)	ADDRESS	1	SQDLEVEL	Control block version
		.... 1		SQDVERSN	"X'01'" Control block version EQU
5	(5)	BITSTRING	3		RESERVED
8	(8)	BITSTRING	24	SQDXECB	XECB POSTed when work completed
32	(20)	ADDRESS	4	SQDRTNA	Addr of rtn to be subtasked
40	(28)	DBL WORD	8	SQDP0_64(0)	64 bit parm 0
40	(28)	ADDRESS	4	SQDPAR0H	Parm list R0...bits 0..31
44	(2C)	ADDRESS	4	SQDPARM0	Parm list R0...bits 32..63
48	(30)	DBL WORD	8	SQDP1_64(0)	64 bit parm 1
48	(30)	ADDRESS	4	SQDPAR1H	Parm list R1...bits 0..31
52	(34)	ADDRESS	4	SQDPARM1	Parm list R1...bits 32..63
56	(38)	SIGNED	4	SQDPAR0A	Parm access register 0
60	(3C)	SIGNED	4	SQDPAR1A	Parm access register 1
64	(40)	DBL WORD	8	SQDRC_64(0)	64 bit returned R15
64	(40)	SIGNED	4	SQDRTNH	Routine return R15...0..31
68	(44)	SIGNED	4	SQDRRTN	Routine return code (R15)
72	(48)	DBL WORD	8	SQDR0_64(0)	64 bit routine return R0
72	(48)	SIGNED	4	SQDRR0H	Routine return R0... 0..31
76	(4C)	SIGNED	4	SQDRR0	Routine return R0...32..63
80	(50)	DBL WORD	8	SQDR1_64(0)	64 bit routine return R1
80	(50)	SIGNED	4	SQDRR1H	Routine return R1... 0..31
84	(54)	SIGNED	4	SQDRR1	Routine return R1...32..63
88	(58)	SIGNED	4	SQDRR0A	Routine return AR0
92	(5C)	SIGNED	4	SQDRR1A	Routine return AR1
96	(60)	SIGNED	4	SQDRETC	Subtask return code
100	(64)	BITSTRING	1	SQDFLAG1	Flag byte 1
		1... ..		SQD1UNCN	"B'10000000'" Unconditional routine call
		.1.. ..		SQD1HCT	"B'01000000'" HCT in R11
		..1. ....		SQD1HCCT	"B'00100000'" HCCT in R11
		...1 ....		SQD1NOST	"B'00010000'" Routine called w/o subtask
		.... 1...		SQD1WAIT	"B'00001000'" WAIT=YES was specified
		.... .1..		SQD1FREE	"B'00000100'" FREESQD=YES specified



Table 246. Structure SQD (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... ..1.		SQD1ECB@	"B'00000010'" SQDXECB points to ECB (user environment only)
		.... ...1		SQD1ACT	"B'00000001'" SQD is active in subtask
101	(65)	BITSTRING	1	SQDFLAG2	Flag byte 2
		1... ....		SQD2P0HI	"B'10000000'" Hi order half (bits 0..31) of R0 was saved in SQDPAR0H and should be passed to the routine.
		.1.. ....		SQD2P1HI	"B'01000000'" Hi order half (bits 0..31) of R1 was saved in SQDPAR1H and should be passed to the routine.
		..1. ....		SQD2TRAC	"B'00100000'" PCE trace is active
		...1 ....		SQD2BAKR	"B'00010000'" BAKR CALLINK (from \$GETRTN)
		.... 1...		SQD2PC	"B'00001000'" PC CALLINK (from \$GETRTN)
102	(66)	BITSTRING	1	SQDPRIO	Priority of request (1 is high, 2 is regular, 3 is low)
103	(67)	BITSTRING	2		Reserved for future use
108	(6C)	ADDRESS	4	SQDNSST	NSST address (USER environ)
112	(70)	ADDRESS	4		Reserved
Various times, valid when request complete. All times in micro seconds.					
120	(78)		1	SQDQTIME	Time spent queued
136	(88)		1	SQDRTIME	Wall clock run time
152	(98)	DBL WORD	8	SQDCTIME	CPU time for request
MACDATE = 04/03/89					
120	(78)	SIGNED	4	SQDTCBTK(0)	
120	(78)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
120	(78)	BITSTRING	8		
128	(80)	SIGNED	4		
132	(84)	ADDRESS	4		
136	(88)	ADDRESS	4		ASCB ADDRESS (INPUT)
140	(8C)	SIGNED	4	(0)	FLAGS (INPUT)
140	(8C)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
141	(8D)	SIGNED	3		RESERVED
160	(A0)	ADDRESS	4	SQDGPQ	Address of GPQE, if any
Subtask VRA and recovery information.					
164	(A4)	ADDRESS	4	SQDCLRA	\$SUBIT caller address
168	(A8)	CHARACTER	8	SQDRNAME	Routine name
176	(B0)	CHARACTER	8	SQDJOBID	JOBID associated with req.
184	(B8)	CHARACTER	8	SQDJOBNM	JOBNAME associated with req
192	(C0)	BITSTRING	3	SQDDEVID	Device id assoc with req
195	(C3)	BITSTRING	1		Reserved
196	(C4)	ADDRESS	4	SQDJQE	PCEJQE value at \$SUBIT
200	(C8)	SIGNED	2	SQDASID	Related ASID



Table 246. Structure SQD (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
202	(CA)	BITSTRING	2		Reserved
The following routines get called as part of recovery processing to perform routine specific operations. Registers on entry are:					
204	(CC)	ADDRESS	4	SQDVRXAD	Routine VRA exit addr
208	(D0)	ADDRESS	4	SQDESXAD	Routine clean up exit addr
212	(D4)	ADDRESS	4	SQDRTXAD	Routine retry exit addr
216	(D8)	ADDRESS	4	SQDTCB	Subtask TCB address
220	(DC)	BITSTRING	4		Reserved
224	(E0)	DBL WORD	8	SQDEND(0)	End SQD on a double word
224	(E0)	X'E0'	0	SQDLEN	"SQDEND-SQD" Length of SQD

Table 247. Cross Reference for \$SQD

Name	Offset	Hex	Tag
SQD	0		
SQDASID	C8		
SQDCLRA	A4		
SQDCTIME	98		
SQDDEVID	C0		
SQDEND	E0		
SQDESXAD	D0		
SQDFLAG1	64		
SQDFLAG2	65		
SQDGPQ	A0		
SQDID	0		E2D8C440
SQDJOBID	B0		
SQDJOBNM	B8		
SQDJQE	C4		
SQDLEN	E0		E0
SQDLEVEL	4		
SQDNSST	6C		
SQDPARM0	2C		
SQDPARM1	34		
SQDPAR0A	38		
SQDPAR0H	28		
SQDPAR1A	3C		
SQDPAR1H	30		
SQDPRIO	66		
SQDP0_64	28		
SQDP1_64	30		



Table 247. Cross Reference for \$SQD (continued)

Name	Offset	Hex Tag
SQDQTIME	78	
SQDRC_64	40	
SQDRETC	60	
SQDRNAME	A8	
SQDRRTN	44	
SQDRR0	4C	
SQDRR0A	58	
SQDRR0H	48	
SQDRR1	54	
SQDRR1A	5C	
SQDRR1H	50	
SQDRTIME	88	
SQDRTNA	20	
SQDRTNH	40	
SQDRTXAD	D4	
SQDR0_64	48	
SQDR1_64	50	
SQDTCB	D8	
SQDTCBTK	78	
SQDVERSN	4	1
SQDVXAD	CC	
SQDXECB	8	
SQD1ACT	64	1
SQD1ECB@	64	2
SQD1FREE	64	4
SQD1HCCT	64	20
SQD1HCT	64	40
SQD1NOST	64	10
SQD1UNCN	64	80
SQD1WAIT	64	8
SQD2BAKR	65	10
SQD2PC	65	8
SQD2P0HI	65	80
SQD2P1HI	65	40
SQD2TRAC	65	20



## \$SRW information

### \$SRW programming interface information

\$SRW is a programming interface.

### \$SRW heading information

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

### \$SRW mapping

Table 248. Structure SRW

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SRW	, SRW mapped as \$NJEWORK
0	(0)	CHARACTER	4	SRWEYE	Eyecatcher
4	(4)	CHARACTER	10	SRWDEVN	Device name
14	(E)	BITSTRING	1	SRWDEVTP	Device type
15	(F)	BITSTRING	3	SRWDEVID	Device id
18	(12)	BITSTRING	2	SRWCRSV1	Reserved
20	(14)	ADDRESS	4	SRWWAVE	WAVE address
24	(18)	ADDRESS	4	SRWSQD	SQD address



Table 248. Structure SRW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
28	(1C)	ADDRESS	4	SRWPAREA	Address of PCL area for this subdevice
32	(20)	ADDRESS	4	SRWAREA	Address of TSCT area for this subdevice (NETSRV address space only)
36	(24)	ADDRESS	4	SRWNSST	Address of NSST (NETSRV address space only)
40	(28)	ADDRESS	4	SRWTBUF	Address of associated TBUF
44	(2C)	ADDRESS	4	SRWTAREA	Address of rolling trace area (NETSRV address space only)
48	(30)	SIGNED	4	SRWECBCC	Contents of POSTed ECB
52	(34)	ADDRESS	4	SRWNITAD	Address of adjacent NIT
56	(38)	ADDRESS	4	SRWNITAL	ALET of adjacent NIT
60	(3C)	ADDRESS	4	SRWNITBL	Address of NIT table
THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER					
64	(40)	SIGNED	4	SRWXTIME	Time offload DS allocated
68	(44)	SIGNED	4	SRWXDATE	Date offload DS allocated
72	(48)	SIGNED	4	SRWCLRST(0)	Start of area to clear
72	(48)	ADDRESS	4	SRWJQA	Address of JQA
72	(48)	X'48'	0	SRWJQE	"SRWJQA" Address of JQE
76	(4C)	ADDRESS	4	SRWJCT	Address of JCT
80	(50)	ADDRESS	4	SRWIOT	Address of IOT
80	(50)	X'50'	0	SRWIOTBF	"SRWIOT" Address of IOT
84	(54)	ADDRESS	4	SRWNJH	Network job header address
88	(58)	ADDRESS	4	SRWNJT	Network job trailer address
92	(5C)	SIGNED	4	SRWRCOUN	Number of records sent/received
96	(60)	ADDRESS	4	SRWCUREC	Current record count, not including header/trailer records
100	(64)	CHARACTER	8	SRWJOBID	Job id of active job
108	(6C)	BITSTRING	1	SRWNERRC	Error code
108	(6C)	X'1'	0	SRWNEJOB	"1" JQE/JOE Mismatch
108	(6C)	X'2'	0	SRWNEJOE	"2" Invalid mix of spin/nonspin
108	(6C)	X'3'	0	SRWNESUB	"3" Subtask failure
108	(6C)	X'4'	0	SRWNEOPE	"4" OPEN failure
108	(6C)	X'5'	0	SRWNECLO	"5" CLOSE failure
108	(6C)	X'6'	0	SRWNEIOE	"6" I/O error
108	(6C)	X'7'	0	SRWNECBI	"7" CBI0 failure
108	(6C)	X'8'	0	SRWNENJH	"8" NJE Header/Trailer build
108	(6C)	X'9'	0	SRWNESEQ	"9" Record sequencing error
108	(6C)	X'A'	0	SRWNEGG	"10" Grouping error
108	(6C)	X'B'	0	SRWNESJF	"11" SJF error
108	(6C)	X'C'	0	SRWNESAF	"12" SAF check failure
108	(6C)	X'D'	0	SRWNERSL	"13" Resource limit error
109	(6D)	BITSTRING	7	SRWCRSV2	Reserved
120	(78)	DBL WORD	8	SRWDBL	Doubleword work area
128	(80)	DBL WORD	8	SRWDBLE	Doubleword work area 2
136	(88)	DBL WORD	8	SRWDBLE1	Doubleword work area 3



Table 248. Structure SRW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
136	(88)	X'80'	0	SRWWRK16	"SRWDBLE,16,C'X'" 16-byte work area
136	(88)	X'78'	0	SRWWRK24	"SRWDBL,24,C'X'" 24-byte work area
144	(90)	ADDRESS	4	SRWNDH	Network dataset header address
148	(94)	SIGNED	8	SRWKEY(0)	JOB AND DATA SET KEYS
148	(94)	SIGNED	4	SRWJBKEY	JOB KEY
152	(98)	SIGNED	4	SRWDSKEY	DATA SET KEY
156	(9C)	ADDRESS	4	SRWPDDb	PDDb address
160	(A0)	SIGNED	4	SRWHDRCT	Number of ds headers in current multi-dest ds
164	(A4)	BITSTRING	4	SRWCRSV3	Reserved
168	(A8)	DBL WORD	8	(0)	Force alignment
168	(A8)	X'48'	0	SRWCLEAR	"SRWCLRST,*-SRWCLRST,C'X'" Area to clear
NJE RECORD TYPE FLAGS					
168	(A8)	BITSTRING	1	SRW\$EXP	'EXPECTED' TYPES (FLAGS)
169	(A9)	BITSTRING	1	SRW\$LST	'LAST RECEIVED' TYPE (FLAG)
		1... ....		SRW\$JH	"B'10000000'" JOB HEADER
		.1.. ....		SRW\$JT	"B'01000000'" JOB TRAILER
		..1. ....		SRW\$DSH	"B'00100000'" DATA SET HEADER
		...1 ....		SRW\$DST	"B'00010000'" DATA SET TRAILER (NOT USED)
		.... 1...		SRW\$DATA	"B'00001000'" DATA RECORD
		.... .1..		SRW\$EOF	"B'00000100'" NORMAL END-OF-FILE
		.... ..1.		SRW\$JES2	"B'00000010'" JES2 SECTION RECEIVED
		.... ...1		SRW\$SPOF	"B'00000001'" OFFLOAD SECTION RECEIVED
170	(AA)	BITSTRING	1	SRWFLAG2	CONTROL FLAGS
		1... ....		SRW\$BLNK	"B'10000000'" DON'T TRUNC BLANKS
		.1.. ....		SRW\$PAGE	"B'01000000'" RECEIVED DS IS PAGE RECORD
		.1.. ....		SRW2NBUF	"B'01000000'" NEW SCR BUFFER NEEDED
		..1. ....		SRW2MDES	"B'00100000'" JOB HAS MULTIPLE DESTS
		...1 ....		SRW2UNSP	"B'00010000'" UNSPUN IOT'S EXIST
		.... 1...		SRW2STKN	"B'00001000'" Submitter job token found
		.... .1..		SRW2TSCR	"B'00000100'" Token SCR in buffer
		.... ..1.		SRW2TREC	"B'00000010'" Token recv for current DS
		.... ...1		SRW2GGIN	"B'00000001'" Grouping strings object is initialized
171	(AB)	BITSTRING	1		Reserved
172	(AC)	ADDRESS	4	SRWDSBUF	Current data buffer address
176	(B0)	SIGNED	4	SRWJBNUM	Work area for job number
180	(B4)	SIGNED	4	SRWMDKEY	DATASET KEY FOR MULTIDEST PDDb
184	(B8)	SIGNED	2	SRWSYSKY	PREVIOUSLY RECEIVED SYSTEM KEY
186	(BA)	BITSTRING	6	SRWMQTR	Most recently acquired MQTR
192	(C0)	SIGNED	4	SRWMXKEY	DATA SET KEYS OVER 32,767



Table 248. Structure SRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
196	(C4)	SIGNED	4	SRWLASKY	LAST DATA SET KEY PROCESSED
200	(C8)	BITSTRING	1	SRWERROR	ERROR FLAGS (AND OTHER SRW FLAGS)
		1... ....		SRW\$CAN	"B'10000000'" CANCEL JOB (TELL XMITTER)
		.1.. ....		SRW\$SKIP	"B'01000000'" CANCEL JOB (DON'T TELL XMITTER)
		..1. ....		SRW\$DSU	"B'00100000'" THIS NODE IS ULTIMATE DEST FOR THIS DATA SET
		...1 ....		SRW\$DPRG	"B'00010000'" One or more data sets in job not received
		.... 1...		SRW\$DIST	"B'00001000'" Severe error in selection
		.... .1..		SRW\$NOJB	"B'00000100'" No data received thru EOF
		.... ..1.		SRW\$HOPX	"B'00000010'" Job's hop count exceeded
		.... ...1		SRW\$RSL	"B'00000001'" Resource limit exceeded
201	(C9)	BITSTRING	1	SRW\$RCV	'RECEIVED' TYPE (FLAG)
202	(CA)	SIGNED	2	SRWMDINS	Multi-dest instance count
204	(CC)	ADDRESS	4	(2)	Reserved for future use
212	(D4)	BITSTRING	1	SRWFLAG1	CONTROL FLAGS
		1... ....		SRW\$ULT	"B'10000000'" THIS NODE IS ULTIMATE DEST OF AT LEAST ONE DATA SET
		.1.. ....		SRW\$TCEL	"B'01000000'" RECEIVED DS IS TRACK-CELLED
		..1. ....		SRW\$DS	"B'00100000'" DATA RECORD HAS BEEN RECEIVED
		...1 ....		SRW\$JTRC	"B'00010000'" JOB TRAILER HAS BEEN RECEIVED
		.... 1...		SRW\$DRN	"B'00001000'" DRAIN SPOF RECEIVER AFTER JOB
		.... .1..		SRW\$SIGN	"B'00000100'" \$GETSMFB and sign-on msg issued, at least one DSH received for this job
		.... ..1.		SRW\$DRFD	"B'00000010'" Data record received since last header processed
		.... ...1		SRW\$SKDR	"B'00000001'" On - at least one DSH accepted in this hdr sequence Off - skipping data records
213	(D5)	BITSTRING	1	SRWFLAG3	GENERAL USE FLAG BYTE
		1... ....		SRW3BFER	"B'10000000'" LARGE SMF BUFFER TOO SMALL TO HOLD SWBTU
		.1.. ....		SRW3JDVT	"B'01000000'" Job's JDVT name is set
		..1. ....		SRW3OAFB	"B'00100000'" Affinity section of header processed
		...1 ....		SRW3LTOK	"B'00010000'" Get local token
		.... 1...		SRW3BLKP	"B'00001000'" Blank padding for mid seg
		.... .1..		SRW3SETU	"B'00000100'" oper=setup() performed for current data set.
		.... ..1.		SRW3USER	"B'00000010'" This SRW exists in the user (NETSRV) environment
214	(D6)	ADDRESS	1	SRWLINCT	MAXIMUM LINES PER PAGE
215	(D7)	BITSTRING	1		Reserved



Table 248. Structure SRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
PDDB work area below has a standard JES2 prefix (see \$CSBPRFX in \$HASPEQU). SRWTPDDDB points to a start of PDDB in a work area.					
216	(D8)	ADDRESS	4	SRWTPDDDB	Work area for PDDB
220	(DC)	SIGNED	4	SRWTPDBM	Max size of PDDB which will fit in SRWTPDDDB
224	(E0)	CHARACTER	256	SRWWRKA	Work area for services
224	(E0)	BITSTRING	3		SCR header length
227	(E3)	BITSTRING	81		Token length
308	(134)	SIGNED	4	(0)	Align
Fields SRWNSWB through SRWSSBTL are used in handling the SWBIT buffer(s) containing any SWBTUs from the DSH data stream section.					
480	(1E0)	SIGNED	2	SRWNSWB	Number of SWBTU's for PDDB
482	(1E2)	SIGNED	2	SRWSWBL	Total size of SWBTU's for PDDB
484	(1E4)	SIGNED	4	SRWSEGID	Segment ID from PDDB
488	(1E8)	ADDRESS	4	SRWSWBTU	Address of SWBTU in data set header
492	(1EC)	ADDRESS	4	SRWHSWBF	SWBIT buffer chain
496	(1F0)	ADDRESS	4	SRWSWPTL	Address of SWBTU pointer list used by SJF SWBTU services
500	(1F4)	ADDRESS	4	SRWIPSWB	Addr of IPADDR work area
504	(1F8)	SIGNED	2	SRWIPSWL	Length of IPADDR work area
506	(1FA)	SIGNED	2		Reserved
508	(1FC)	SIGNED	4	(0)	Alignment
508	(1FC)	CHARACTER	8	SRWSSBTL	Default SWBTU pointer list used when only one SWBTU exists
516	(204)	BITSTRING	1	SRWTUXP	TU extract parameters
The following fields point to the various tokens associated with a job/data set being received.					
536	(218)	ADDRESS	4	SRWJTKNA	Job header token address
540	(21C)	ADDRESS	4	SRWIJTKN	Internal format Job token
544	(220)	ADDRESS	4	SRWTKNA	External format token which was last processed
548	(224)	ADDRESS	4	SRWITKN	Internal version of SRWTKNA
552	(228)	ADDRESS	4	SRWIVTKB	Token returned by VERIFYX using SRWTKNA (output destined local)
556	(22C)	ADDRESS	4	SRWISFTK	Store and forward token for current job
560	(230)	ADDRESS	4	SRWTWA	Token work area address
564	(234)	BITSTRING	1	SRWFLAGT	Token flags
		1... ....		SRWTVXPS	"B'10000000'" VERIFYX RC for SRWIVTKN On-> RC=0/4 off-> RC=8
		.1.. ....		SRWTSFPS	"B'01000000'" VERIFYX RC for SRWISFTK On-> RC=0/4 off-> RC=8
565	(235)	BITSTRING	3		Reserved for future use
568	(238)	ADDRESS	4	SRWB32KH	Addr of temp NJH 32K cell
572	(23C)	CHARACTER	392	SRWSAFI	\$SAFINFO parameter list
964	(3C4)	ADDRESS	4	SRWOUTB@	Output buffer address



Table 248. Structure SRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Fields set up for the encryption service					
968	(3C8)	ADDRESS	4	SRWSEL	Address of DSETLVL buffer
976	(3D0)	ADDRESS	8	SRWENCO	Encryption object address returned by ENCRYPTV
984	(3D8)	SIGNED	8		Reserved
992	(3E0)	DBL WORD	8	SRWENWRK(0)	Encryption record area info
1192	(4A8)	DBL WORD	8	SRWPTMP	8 byte work area
1200	(4B0)	CHARACTER	64	SRWPELBL	Input DSKEYLBL label
1264	(4F0)	CHARACTER	8	SRWPDSN	Data set DSNAME
1272	(4F8)	BITSTRING	1	SRWPLENG	Length of SRWPELBL
1273	(4F9)	BITSTRING	1	SRWPDSNL	Length of SRWPDSN
1280	(500)	ADDRESS	8	SRWPIW	Pointer to pcy interpreter work area
1288	(508)	ADDRESS	8	SRWRGPTR	Pointer to RGDC entry for the job - set if job was assigned to a resgroup
1296	(510)	BITSTRING	32	SRWRMET	Temp rsrc management entry
1296	(510)	X'530'	0	SRWCMLN	"*-SRW" Length of common SRW
The following fields exist only in a SRW that is in JES2 address space (NJE over SNA/BSC, offload).					
1328	(530)	DBL WORD	8	SRWMTARA(0)	Start of area
Resource management entry for SPOOL/TGs mapped by LRMENTRY in \$RESGRP.					
1328	(530)	BITSTRING	32	SRWTGRME	TG rsrc management entry
1360	(550)	DBL WORD	8	(0)	Alignment
1360	(550)	X'550'	0	SRWLEN	"*-SRW"
The following fields exist only in the SRW in the NETSRV address space					
1328	(530)	ADDRESS	4	SRWACB	ACB address
1332	(534)	ADDRESS	4	SRWRPL	RPL address
1336	(538)	ADDRESS	4	SRWSJB	SJB address
1340	(53C)	ADDRESS	4	SRWSDB	SDB address
1344	(540)	ADDRESS	4	SRWIPDDB	First PDDb for this DS
1348	(544)	ADDRESS	4	SRWIIOT	First IOT for this DS
1352	(548)	ADDRESS	4	SRWCUIOT	IOT for current PDDb
1356	(54C)	BITSTRING	1	SRWNFLG1	Progress flags
		1... ..		SRWN1JHI	"B'10000000" Job header in progress
		.1.. ..		SRWN1JHC	"B'01000000" Job header complete
		..1. ....		SRWN1DHI	"B'00100000" DS header in progress
		...1 ....		SRWN1DHC	"B'00010000" DS header complete
		.... 1...		SRWN1JTI	"B'00001000" Job trailer in progress
		.... .1..		SRWN1JTC	"B'00000100" Job trailer complete
		.... ..1.		SRWN1PTI	"B'00000010" PUT of data in progress
		.... ...1		SRWN1ERR	"B'00000001" Error detected
1357	(54D)	BITSTRING	1	SRWNFLG2	Progress flags



Table 248. Structure SRW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1... ....		SRWN2CLI	"B'10000000'" Fake CLOSE (null PUT) in progress
		.1... ....		SRWN2EOT	"B'01000000'" EOT received
		..1. ....		SRWN2EOC	"B'00100000'" EOT processing complete
1358	(54E)	BITSTRING	2		Reserved
1360	(550)	ADDRESS	8	SRWRJQE	Real JQE address in live
1368	(558)	SIGNED	4	SRWRJQEA	version and ALET
1372	(55C)	SIGNED	4	(5)	Reserved
1392	(570)	DBL WORD	8	(0)	Align
1392	(570)	X'570'	0	SRWCLEN	"*-SRW" Length of SRW in NETSRV address space

Table 249. Cross Reference for \$SRW

Name	Offset	Hex Tag
SRW	0	
SRW\$BLNK	AA	80
SRW\$CAN	C8	80
SRW\$DATA	A9	8
SRW\$DIST	C8	8
SRW\$DPRG	C8	10
SRW\$DRFD	D4	2
SRW\$DRN	D4	8
SRW\$DS	D4	20
SRW\$DSH	A9	20
SRW\$DST	A9	10
SRW\$DSU	C8	20
SRW\$EOF	A9	4
SRW\$EXP	A8	
SRW\$HOPX	C8	2
SRW\$JES2	A9	2
SRW\$JH	A9	80
SRW\$JT	A9	40
SRW\$JTRC	D4	10
SRW\$LST	A9	
SRW\$NOJB	C8	4
SRW\$PAGE	AA	40
SRW\$RCV	C9	
SRW\$RSL	C8	1
SRW\$SIGN	D4	4
SRW\$SKDR	D4	1
SRW\$SKIP	C8	40



Table 249. Cross Reference for \$SRW (continued)

Name	Offset	Hex Tag
SRW\$SPOF	A9	1
SRW\$TCEL	D4	40
SRW\$ULT	D4	80
SRWACB	530	
SRWAREA	20	
SRWB32KH	238	
SRWCLEAR	A8	48
SRWCLEN	570	570
SRWCLRST	48	
SRWCMLN	510	530
SRWCRSV1	12	
SRWCRSV2	6D	
SRWCRSV3	A4	
SRWCUIOT	548	
SRWCUREC	60	
SRWDBL	78	
SRWDBLE	80	
SRWDBLE1	88	
SRWDEVID	F	
SRWDEVN	4	
SRWDEVTP	E	
SRWDSBUF	AC	
SRWDSSEL	3C8	
SRWDSKEY	98	
SRWECBCC	30	
SRWENCO	3D0	
SRWENWRK	3E0	
SRWERROR	C8	
SRWEYE	0	E2D9E640
SRWFLAGT	234	
SRWFLAG1	D4	
SRWFLAG2	AA	
SRWFLAG3	D5	
SRWHDRCT	A0	
SRWHSWBF	1EC	
SRWIIOT	544	
SRWIJTKN	21C	
SRWIOT	50	
SRWIOTBF	50	50



Table 249. Cross Reference for \$SRW (continued)

Name	Offset	Hex Tag
SRWIPDDB	540	
SRWIPSWB	1F4	
SRWIPSWL	1F8	
SRWISFTK	22C	
SRWITKN	224	
SRWIVTKB	228	
SRWJBKEY	94	
SRWJBNUM	B0	
SRWJCT	4C	
SRWJOBID	64	
SRWJQA	48	
SRWJQE	48	48
SRWJTKNA	218	
SRWKEY	94	
SRWLASKY	C4	
SRWLEN	550	550
SRWLINCT	D6	
SRWMDINS	CA	
SRWMDKEY	B4	
SRWMQTR	BA	
SRWMTARA	530	
SRWMXKEY	C0	
SRWNDH	90	
SRWNECBI	6C	7
SRWNECLO	6C	5
SRWNEGG	6C	A
SRWNEIOE	6C	6
SRWNEJOB	6C	1
SRWNEJOE	6C	2
SRWNEJH	6C	8
SRWNEOPE	6C	4
SRWNERRC	6C	
SRWNERSL	6C	D
SRWNESAF	6C	C
SRWNESEQ	6C	9
SRWNESJF	6C	B
SRWNESUB	6C	3
SRWNFLG1	54C	
SRWNFLG2	54D	



Table 249. Cross Reference for \$SRW (continued)

Name	Offset	Hex Tag
SRWNITAD	34	
SRWNITAL	38	
SRWNITBL	3C	
SRWNJH	54	
SRWNJT	58	
SRWNSST	24	
SRWNSWB	1E0	
SRWN1DHC	54C	10
SRWN1DHI	54C	20
SRWN1ERR	54C	1
SRWN1JHC	54C	40
SRWN1JHI	54C	80
SRWN1JTC	54C	4
SRWN1JTI	54C	8
SRWN1PTI	54C	2
SRWN2CLI	54D	80
SRWN2EOC	54D	20
SRWN2EOT	54D	40
SRWOUTB@	3C4	
SRWPAREA	1C	
SRWPDDDB	9C	
SRWPDSN	4F0	
SRWPDSNL	4F9	
SRWPELBL	4B0	
SRWPIW	500	
SRWPLENG	4F8	
SRWPTMP	4A8	
SRWRCOUN	5C	
SRWRGPTR	508	
SRWRJQE	550	
SRWRJQEA	558	
SRWRMET	510	
SRWRPL	534	
SRWSAFI	23C	
SRWSDB	53C	
SRWSEGID	1E4	
SRWSJB	538	
SRWSQD	18	
SRWSSBTL	1FC	



Table 249. Cross Reference for \$SRW (continued)

Name	Offset	Hex Tag
SRWSWBL	1E2	
SRWSWBTU	1E8	
SRWSWPTL	1F0	
SRWSYSKY	B8	
SRWTAREA	2C	
SRWTBUF	28	
SRWTGRME	530	
SRWTKNA	220	
SRWTPDBM	DC	
SRWTPDDb	D8	
SRWTSFPS	234	40
SRWTUXP	204	
SRWTVXPS	234	80
SRWTWA	230	
SRWWAVE	14	
SRWWRKA	E0	
SRWWRK16	88	80
SRWWRK24	88	78
SRWXDATE	44	
SRWXTIME	40	
SRW2GGIN	AA	1
SRW2MDES	AA	20
SRW2NBUF	AA	40
SRW2STKN	AA	8
SRW2TREC	AA	2
SRW2TSCR	AA	4
SRW2UNSP	AA	10
SRW3BFER	D5	80
SRW3BLKP	D5	8
SRW3JDVT	D5	40
SRW3LTOK	D5	10
SRW30AFF	D5	20
SRW3SETU	D5	4
SRW3USER	D5	2

## \$STAC information

### \$STAC heading information

**Common name:** STAC



**Macro ID:** \$STAC

**DSECT name:** STAC

**Owning component:** JES2 (SC1BH)

**Eye-catcher ID:** STAC  
Offset: SACEYE  
Length: L'SACEYE

**Storage attributes:** Subpool: n/a  
Key: 1  
Residency: In the jesxSTAC data space in cpool STAC

**Size:** See SACLEN

**Created by:** HASCSISC

**Pointed to by:** SACNEXT field of the \$STAC data area  
SACPREV field of the \$STAC data area  
SJBSTAC field of the \$SJB data area  
CCTCSHED field of the \$HCCT data area  
CCTCSTAI field of the \$HCCT data area

**Serialization:** Double Compare and Swap (via PLO)

**Function:** The STAC is used by STATUS/CANCEL support. It contains all information needed to perform the STATUS or CANCEL SSI function in the JES2 address space.

## \$STAC mapping

Table 250. Structure STAC

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



Table 250. Structure STAC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
45	(2D)	BITSTRING	1	SACFLAG1	Flags (serialized via CS)
		1... ....		SAC1XPST	"B'10000000'" Action is complete Data in STAC can be used
		..1. ....		SAC1PCE	"B'00100000'" In process (SACPCE valid)
		...1 ....		SAC1QUED	"B'00010000'" On FIFO queue
46	(2E)	BITSTRING	16	SACTCBT	TCB Token of requestor
62	(3E)	BITSTRING	2		Reserved for future use
64	(40)	CHARACTER	80	SACTOKEN	Security token work area
144	(90)	ADDRESS	4	SACPCE	Address of PCE processing the STAC request
MACDATE = 04/03/89					
148	(94)	SIGNED	4	SACTTOK(0)	
148	(94)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
148	(94)	BITSTRING	8		
156	(9C)	SIGNED	4		
160	(A0)	ADDRESS	4		
164	(A4)	ADDRESS	4		ASCB ADDRESS (INPUT)
168	(A8)	SIGNED	4	(0)	FLAGS (INPUT)
168	(A8)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
169	(A9)	SIGNED	3		RESERVED
169	(A9)	X'AC'	0	SACLEN1	"*-STAC" IPCS STAC length
4096	(1000)	BITSTRING	1	SACFAREA	Maximum caller area
4096	(1000)	X'10FFF'	0	SACLEN	"*-STAC" STAC Length

Table 251. Cross Reference for \$STAC

Name	Offset	Hex Tag
SACEYE	0	
SACFAREA	1000	
SACFLAG1	2D	
SACLEN	1000	10FFF
SACLEN1	A9	AC
SACNEXT	4	
SACPCE	90	
SACPREV	8	
SACSJB	C	
SACTAREA	10	
SACTCBT	2E	
SACTDIMP	20	
SACTDIMR	22	
SACTFLGS	2A	
SACTFLOW	2C	
SACTFUNC	24	



Table 251. Cross Reference for \$STAC (continued)

Name	Offset	Hex Tag
SACTJOBI	1C	
SACTJOBN	14	
SACTOKEN	40	
SACTRETB	26	
SACTRETR	28	
SACTTOK	94	
SACTULEN	2B	
SAC1PCE	2D	20
SAC1QUED	2D	10
SAC1XPST	2D	80
STAC	0	

## \$STCWORK information

### \$STCWORK programming interface information

\$STCWORK is a programming interface.

### \$STCWORK heading information

<b>Common name:</b>	JES2 Status/Cancel PCE Work Area
<b>Macro ID:</b>	\$STCWORK
<b>DSECT name:</b>	PCE (\$STCWORK is part of the PCE DSECT)
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'PCE ' Offset: PCEEYE-PCE Length: 4
<b>Storage attributes:</b>	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
<b>Size:</b>	See symbol SCNPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.
<b>Created by:</b>	See \$PCE
<b>Pointed to by:</b>	The \$STACPCE field of the \$HCT data area The SACPCE field of the \$STAC data area See \$PCE for other pointer fields that apply to all PCE types.
<b>Serialization:</b>	Normal PCE dispatch serialization



**Function:**

The fields in this work area are used by the JES2 Status/Cancel Processor. \$STCWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$STCWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESTCID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

**\$STCWORK mapping***Table 252. Structure PCE*

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	JES2 STC processor executive
336	(150)	DBL WORD	8	SCNWORK	Processor work area
344	(158)	BITSTRING	1	SCNFLAG1	STC flags
		1... ....		SCN1SGL	"B'10000000" Exit single request
		.1.. ....		SCN1MUL	"B'01000000" Exit multiple request
		..1. ....		SCN1EXCL	"B'00100000" Exit called request
345	(159)	BITSTRING	3		Reserved
348	(15C)	CHARACTER	80	SCNTOKEN	Security token work area
428	(1AC)	BITSTRING	24	SCNXPARM	Exit parm list
452	(1C4)	ADDRESS	4	SCNBUFAD	JCT buffer address
456	(1C8)	DBL WORD	8	(0)	Align STC work area
456	(1C8)	X'78'	0	SCNPCEWL	"*-PCEWORK" STC PCE work area length

*Table 253. Cross Reference for \$STCWORK*

Name	Offset	Hex	Tag
PCE	0		
SCNBUFAD	1C4		
SCNFLAG1	158		
SCNPCEWL	1C8		78
SCNTOKEN	15C		
SCNWORK	150		
SCNXPARM	1AC		
SCN1EXCL	158		20
SCN1MUL	158		40
SCN1SGL	158		80

**\$STW information****\$STW programming interface information**

\$STW is a programming interface.

**\$STW heading information**

**Common name:** JES2 SYSOUT Transmitter Work Area



**Macro ID:** \$STW

**DSECT name:** STW

**Owning component:** JES2 (SC1BH)

**Eye-catcher ID:** none

**Storage attributes:** Subpool: See \$PCE (JES2 address space)  
 0 (NETSRV address space)  
 Key: See \$PCE (JES2 address space)  
 0 (NETSRV address space)  
 Residency: See \$PCE (JES2 address space)  
 Virtual and real storage are anywhere (above or below 16M) in private storage (NETSRV address space)

**Size:** See STWLEN

**Created by:** See \$PCE (JES2 address space)  
 Subtask initialization exit (NETSRV address space)

**Pointed to by:** NSSTSTWA field of the \$NSST data area  
 X046AREA field of the \$XPL data area  
 X056AREA field of the \$XPL data area  
 Imbedded in the PCE in the JES2 address space.  
 See \$PCE for other pointer fields that apply to all PCE types.

**Serialization:** Normal PCE dispatch serialization

**Function:** The fields in this work area are used by a JES2 SYSOUT Transmitter Processor and by its support routines and exits. \$STW maps the fields that are used by common service routines in both the JES2 address space and the NETSRV address spaces.

## \$STW mapping

Table 254. Structure STW

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



Table 254. Structure STW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	ADDRESS	4	STWNITAD	Address of adjacent NIT
56	(38)	ADDRESS	4	STWNITAL	ALET of adjacent NIT
60	(3C)	ADDRESS	4	STWNITBL	Address of NIT table
THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER					
64	(40)	SIGNED	4	STWXTIME	Time offload DS allocated
68	(44)	SIGNED	4	STWXDATE	Date offload DS allocated
72	(48)	SIGNED	4	STWCLRST(0)	Start of area to clear
72	(48)	ADDRESS	4	STWJQA	Address of JQA
72	(48)	X'48'	0	STWJQE	"STWJQA" Address of JQE
76	(4C)	ADDRESS	4	STWJCT	Address of JCT
80	(50)	ADDRESS	4	STWIOT	Address of IOT
80	(50)	X'50'	0	STWIOTBF	"STWIOT" Address of IOT
84	(54)	ADDRESS	4	STWNJH	Network job header address
88	(58)	ADDRESS	4	STWNJT	Network job trailer address
92	(5C)	SIGNED	4	STWRCOUN	Number of records sent/received
96	(60)	ADDRESS	4	STWCUREC	Current record count, not including header/trailer records
100	(64)	CHARACTER	8	STWJOBID	Job id of active job
108	(6C)	BITSTRING	1	STWNERRC	Error code
108	(6C)	X'1'	0	STWNEJOB	"1" JQE/JOE Mismatch
108	(6C)	X'2'	0	STWNEJOE	"2" Invalid mix of spin/nonspin
108	(6C)	X'3'	0	STWNESUB	"3" Subtask failure
108	(6C)	X'4'	0	STWNEOPE	"4" OPEN failure
108	(6C)	X'5'	0	STWNECLO	"5" CLOSE failure
108	(6C)	X'6'	0	STWNEIOE	"6" I/O error
108	(6C)	X'7'	0	STWNECBI	"7" CBI0 failure
108	(6C)	X'8'	0	STWNENJH	"8" NJE Header/Trailer build
108	(6C)	X'9'	0	STWNESEQ	"9" Record sequencing error
108	(6C)	X'A'	0	STWNEGG	"10" Grouping error
108	(6C)	X'B'	0	STWNEJF	"11" SJF error
108	(6C)	X'C'	0	STWNE SAF	"12" SAF check failure
108	(6C)	X'D'	0	STWNERSL	"13" Resource limit error
109	(6D)	BITSTRING	7	STWCRSV2	Reserved
120	(78)	DBL WORD	8	STWDBL	Doubleword work area
128	(80)	DBL WORD	8	STWDBLE	Doubleword work area 2
136	(88)	DBL WORD	8	STWDBLE1	Doubleword work area 3
136	(88)	X'80'	0	STWWRK16	"STWDBLE,16,C'X'" 16-byte work area
136	(88)	X'78'	0	STWWRK24	"STWDBL,24,C'X'" 24-byte work area
144	(90)	ADDRESS	4	STWNDH	Network dataset header address
148	(94)	SIGNED	8	STWKEY(0)	JOB AND DATA SET KEYS
148	(94)	SIGNED	4	STWJBKEY	JOB KEY
152	(98)	SIGNED	4	STWDSKEY	DATA SET KEY
156	(9C)	ADDRESS	4	STWPDDb	PDDb address
160	(A0)	SIGNED	4	STWHDRCT	Number of ds headers in current multi-dest ds



Table 254. Structure STW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
164	(A4)	BITSTRING	4	STWCERSV3	Reserved
168	(A8)	DBL WORD	8	(0)	Force alignment
168	(A8)	X'48'	0	STWCLEAR	"STWCLRST,*-STWCLRST,C'X'" Area to clear
168	(A8)	X'A8'	0	STWCINIT	"*" Start of area to clear
168	(A8)	SIGNED	4	STWJOEO	Current JOE offset
172	(AC)	SIGNED	4	STWNRECT	JESNEWS line count
176	(B0)	SIGNED	4	STWNPGET	JESNEWS page count
180	(B4)	ADDRESS	4	STWJOA	JOA address
184	(B8)	SIGNED	4	STWSEGID	Segment ID from PDDB
188	(BC)	ADDRESS	4	STWPDDBP	Previous PDDB
192	(C0)	ADDRESS	4	STWSWPTL	Address of SWBTU pointer list used by SJF SWBTU services
196	(C4)	SIGNED	4	STWNETCH	Head of xmitter's JOE chain This is always an offset
200	(C8)	SIGNED	4	STWJOEOF	Offset of JOE
204	(CC)	ADDRESS	4	STWCHARJ	Address of CHAR JOE
208	(D0)	ADDRESS	4	STWENPDB	POINTER PAST END OF PDDB'S IN IOT
212	(D4)	SIGNED	2	STWSWBL	Total size of SWBTUs
214	(D6)	SIGNED	2	STWNSWB	Total number of SWBTUs
216	(D8)	SIGNED	4	STWBKUPP	Backup pointer Joe/PDDB
220	(DC)	SIGNED	2	STWJID2	JOE's output group 2nd id
222	(DE)	BITSTRING	1	STWFDSER	Flags chking for null ds
		1... ....		STWFNUJD	"B'10000000" Null dataset error
		.1.. ....		STWFOFJQ	"B'01000000" Job held by offload
		.... ...1		STWFRFND	"B'00000001" Valid data records in DS
223	(DF)	CHARACTER	8		Reserved
231	(E7)	BITSTRING	1	STWFLAG1	GENERAL USE FLAG BYTE
		1... ....		STW1SPE	"B'10000000" Runtime HASPNST:NSTNORML special multi-dest situation. See NSTNORML
232	(E8)	BITSTRING	1	STWFLAG3	GENERAL USE FLAG BYTE
		1... ....		STW3ES57	"B'10000000" PRODUCE THE ESS SECTION OF THE SMF TYPE 57 RECORD
		.1.. ....		STW3BFER	"B'01000000" LARGE SMF BUFFER TOO SMALL TO HOLD SWBTU
		..1. ....		STW3MERG	"B'00100000" SWBTU merge is required for this data set
		...1 ....		STW3SWRD	"B'00010000" 1 - The JOE SWBIT chain is to be read in 0 - The PDDB SWBIT chain is to be read in
		.... 1...		STW3OPER	"B'00001000" A SWBIT read error occurred
		.... ..1.		STW3ERON	"B'00000010" The JOE SWBIT chain only contains erase lists
		.... ...1		STW3SMAB	"B'00000001" Abend in \$SWBMERG service
233	(E9)	BITSTRING	1	STWFLAGS	INTERNAL FLAGS FOR TRANSMITTER
		1... ....		STW\$NORM	"B'10000000" NORMAL DATA SETS TO TRANSMIT



Table 254. Structure STW (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.1... ....		STW\$SPIN	"B'01000000'" SPIN DATA SETS TO TRANSMIT
		..1. ....		STW\$IDLE	"B'00100000'" 'IDLE' MESSAGE ISSUED
		...1 ....		STW\$MULT	"B'00010000'" MULTI-DESTINATION SCAN MODE
		.... 1...		STW\$JOBL	"B'00001000'" JESMSG LG data set sent
		.... .1..		STW\$AUTH	"B'00000100'" Authorization failure
		.... ..1.		STW\$IOT	"B'00000010'" IOT SPOOL I/O ERROR
		.... ...1		STW\$INV	"B'00000001'" FIRST BLOCK IS INVALID
234	(EA)	BITSTRING	1	STWJQEFL	JQE flag byte
		1... ....		STWJHOPR	"B'10000000'" Reset NJE hop count when retransmitting job
235	(EB)	BITSTRING	1	STWWJFLG	Work JOE flags
236	(EC)	CHARACTER	8	STWCRUID	Creator userid for Dataset
244	(F4)	CHARACTER	8	STWUSER	User ID
244	(F4)	X'54'	0	STWCINIL	"*-STWCINIT" Length to clear
252	(FC)	ADDRESS	4	STWSTEE	Chain of ENF elements
256	(100)	CHARACTER	260	STWCWORK	Work area
520	(208)	DBL WORD	8	STWEWORK(0)	Compression/encryption work area for gets
520	(208)	X'418'	0	STWLEN	"*-STW" Size of STW
The following fields exist only in the STW in the NETSRV address space					
1048	(418)	ADDRESS	4	STWACB	ACB address
1052	(41C)	ADDRESS	4	STWRPL	RPL address
1056	(420)	ADDRESS	4	STWSJB	SJB address
1060	(424)	ADDRESS	4	STWSDB	SDB address
1064	(428)	ADDRESS	4	STWDSIOT	IOT for dataset to send
1068	(42C)	ADDRESS	4	STWDSPDB	PDDB for dataset to send
1072	(430)	ADDRESS	4	STWNWIOT	IOT for JESNEWS
1076	(434)	ADDRESS	4	STWNWPDB	PDDB for JESNEWS
1080	(438)	ADDRESS	4	STWNWTTR	MTTR of JESNEWS IOT
1084	(43C)	BITSTRING	1	STWNFLG1	Progress flags
		1... ....		STWN1JHI	"B'10000000'" NJH creation in progress
		.1... ....		STWN1JHC	"B'01000000'" NJH creation complete
		..1. ....		STWN1JHS	"B'00100000'" NJH has been sent
		...1 ....		STWN1GTI	"B'00010000'" Get is in progress
		.... 1...		STWN1JTI	"B'00001000'" NJT creation in progress
		.... .1..		STWN1JTC	"B'00000100'" NJT creation complete
		.... ..1.		STWN1JTS	"B'00000010'" NJT has been sent
		.... ...1		STWN1ERR	"B'00000001'" Error, abort transmission
1085	(43D)	BITSTRING	1	STWNFLG2	Progress flags
		1... ....		STWN2DHI	"B'10000000'" NDH creation in progress
		.1... ....		STWN2DHC	"B'01000000'" NDH creation complete



Table 254. Structure STW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1. ....		STWN2DHS	"B'00100000'" NDH has been sent
		...1 ....		STWN2OPE	"B'00010000'" Dataset open for XMIT
		.... 1...		STWN2CBI	"B'00001000'" IOT read started
		.... .1..		STWN2CBC	"B'00000100'" IOT read complete
		.... ..1.		STWN2INC	"B'00000010'" Incomplete send
		.... ...1		STWN2EOT	"B'00000001'" EOT has been sent
1086	(43E)	BITSTRING	1	STWNFLG3	Progress flags
		1... ....		STWN3NWI	"B'10000000'" JESNEWS in process
		.1.. ....		STWN3NWS	"B'01000000'" JESNEWS sent
		..1. ....		STWN3WJ2	"B'00100000'" Wait while JES2 down
		...1 ....		STWN3SPE	"B'00010000'" Routine HASPNT:NSTNORML special multi-dest situation. See NSTNORML
1087	(43F)	BITSTRING	1		Reserved
1088	(440)	DBL WORD	8	(0)	
1088	(440)	X'440'	0	STWCLEN	"*-STW" Length of STW in NETSRV address space

Table 255. Cross Reference for \$STW

Name	Offset	Hex Tag
STW	0	
STW\$AUTH	E9	4
STW\$IDLE	E9	20
STW\$INV	E9	1
STW\$IOT	E9	2
STW\$JOBL	E9	8
STW\$MULT	E9	10
STW\$NORM	E9	80
STW\$SPIN	E9	40
STWACB	418	
STWAREA	20	
STWBKUPP	D8	
STWCHARJ	CC	
STWCINIL	F4	54
STWCINIT	A8	A8
STWCLEAR	A8	48
STWCLEN	440	440
STWCLRST	48	
STWCRSV1	12	
STWCRSV2	6D	
STWCRSV3	A4	
STWCRUID	EC	



Table 255. Cross Reference for \$STW (continued)

Name	Offset	Hex Tag
STWCUREC	60	
STWCWORK	100	
STWDBL	78	
STWDBLE	80	
STWDBLE1	88	
STWDEVID	F	
STWDEVN	4	
STWDEVTP	E	
STWDSIOT	428	
STWDSKEY	98	
STWDSPDB	42C	
STWECBCC	30	
STWENPDB	D0	
STWEWORK	208	
STWEYE	0	E2E3E640
STWFDSE	DE	
STWFLAGS	E9	
STWFLAG1	E7	
STWFLAG3	E8	
STWFNULD	DE	80
STWFOFJQ	DE	40
STWFRFND	DE	1
STWHDRCT	A0	
STWIOT	50	
STWIOTBF	50	50
STWJBKEY	94	
STWJCT	4C	
STWJHOPR	EA	80
STWJID2	DC	
STWJOA	B4	
STWJOBID	64	
STWJOE0	A8	
STWJOE0F	C8	
STWJQA	48	
STWJQE	48	48
STWJQEFL	EA	
STWKEY	94	
STWLEN	208	418
STWNDH	90	



Table 255. Cross Reference for \$STW (continued)

Name	Offset	Hex Tag
STWNECBI	6C	7
STWNECLO	6C	5
STWNEGG	6C	A
STWNEIOE	6C	6
STWNEJOB	6C	1
STWNEJOE	6C	2
STWNENJH	6C	8
STWNEOPE	6C	4
STWNERRC	6C	
STWNERSL	6C	D
STWNESAF	6C	C
STWNESEQ	6C	9
STWNESJF	6C	B
STWNESUB	6C	3
STWNETCH	C4	
STWNFLG1	43C	
STWNFLG2	43D	
STWNFLG3	43E	
STWNITAD	34	
STWNITAL	38	
STWNITBL	3C	
STWNJH	54	
STWNJT	58	
STWNPGCT	B0	
STWNRECT	AC	
STWNSST	24	
STWNSWB	D6	
STWNWIOT	430	
STWNWPDB	434	
STWNWTTR	438	
STWN1ERR	43C	1
STWN1GTI	43C	10
STWN1JHC	43C	40
STWN1JHI	43C	80
STWN1JHS	43C	20
STWN1JTC	43C	4
STWN1JTI	43C	8
STWN1JTS	43C	2
STWN2CBC	43D	4



Table 255. Cross Reference for \$STW (continued)

Name	Offset	Hex Tag
STWN2CBI	43D	8
STWN2DHC	43D	40
STWN2DHI	43D	80
STWN2DHS	43D	20
STWN2EOT	43D	1
STWN2INC	43D	2
STWN2OPE	43D	10
STWN3NWI	43E	80
STWN3NWS	43E	40
STWN3SPE	43E	10
STWN3WJ2	43E	20
STWPAREA	1C	
STWPDDDB	9C	
STWPDDBP	BC	
STWRCOUN	5C	
STWRPL	41C	
STWSDB	424	
STWSEGID	B8	
STWSJB	420	
STWSQD	18	
STWSTEE	FC	
STWSWBL	D4	
STWSWPTL	C0	
STWTAREA	2C	
STWTBUF	28	
STWUSER	F4	
STWWAVE	14	
STWWJFLG	EB	
STWWRK16	88	80
STWWRK24	88	78
STWXDATE	44	
STWXTIME	40	
STW1SPE	E7	80
STW3BFER	E8	40
STW3ERON	E8	2
STW3ES57	E8	80
STW3MERG	E8	20
STW3OPER	E8	8
STW3SMAB	E8	1



Table 255. Cross Reference for \$STW (continued)

Name	Offset	Hex Tag
STW3SWRD	E8	10

## \$SWBIT information

### \$SWBIT programming interface information

\$SWBIT is a programming interface.

### \$SWBIT heading information

**Common name:** Scheduler Work Block Information Table

**Macro ID:** \$SWBIT

**DSECT name:** SWBIT

**Owning component:** JES2 (SC1BH)

**Eye-catcher ID:** SWBI  
Offset: SWBITID-SWBIT  
Length: L'SWBITID

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

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

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

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

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



**Function:**

This control block contains information for the Scheduler Work Block, including text units (SWBTU's) and Erase Text Unit lists (Erase TU's). The text units contain information from various sources such as the OUTPUT JCL statement and SDSF modification of output descriptors.

Note that SWBDATOF should always be used to determine the start of the SWB data area. Equates are only used by code that creates the SWBIT structure.

**\$SWBIT mapping**

Table 256. Structure SWBIT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SWBIT	HASP SWB INFORMATION TABLE
The following fields are defined over the buffer prefix in order to ensure that they are never written to SPOOL.					
0	(0)	X'40'	0	SWBSWB	"BUFMEMW1-BFPDSECT+SWBIT" Storage address of next SWBIT
0	(0)	X'44'	0	SWBPSWB	"BUFMEMW2-BFPDSECT+SWBIT" Storage address of prior SWBIT
End of buffer prefix fields					
0	(0)	BITSTRING	1	(0)	BUFFER INFORMATION
Common section - All versions have this section ( see SWBVERS for version info ).					
0	(0)	X'68'	0	SWBSTART	"*"
The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer. The following fields are defined: Eyecatcher - 4 bytes Job name - 8 bytes Job number - 4 bytes Job key - 4 bytes Dataset key - 4 bytes (or reserved if not applicable)					
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"
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.					
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	SWBI LENG	LEN OF SWB DATA RET BY GETSWB
130	(82)	ADDRESS	2	SWBE LENG	Len of TU Erase list



Table 256. Structure SWBIT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
132	(84)	ADDRESS	4	SWBTRACK	Track address (MTTR) of this SWBIT.
136	(88)	ADDRESS	4	SWBSWBTR	Track address (MTTR) of next SWBIT.
140	(8C)	ADDRESS	1	SWBDATOF	Offset from SWBSTART to SWB data field
141	(8D)	SIGNED	1	SWBVERS	SWB structure version:
141	(8D)	X'0'	0	SWBVER0	"0" Pre-z/OS 1.12 - no extended section (see below).
141	(8D)	X'C'	0	SWBVER12	"12" z/OS 1.12+ - has extended section (see below).
142	(8E)	BITSTRING	6	SWBIOTMQ	IOT with owning Pddb (MQTR)
142	(8E)	X'2C'	0	SWBDATST_Z11	"*-SWBSTART" Offset from header to SWB data - Pre Z/OS 1.12 ( if version is SWBVER0 )
142	(8E)	X'94'	0	SWBISIZ_Z11	"*-SWBIT" Size of SWBIT header - Pre Z/OS 1.12 ( if version is SWBVER0 )
148	(94)	SIGNED	4	SWBDATA_Z11(0)	Start of SWB data - Pre Z/OS 1.12 ( if version is SWBVER0 )
SWBIT extension - The following fields are only valid at version SWBVER12+					
148	(94)	BITSTRING	6	SWBMQTRK	Track address (MQTR) of this SWBIT.
154	(9A)	BITSTRING	6	SWBNXTRK	Track address (MQTR) of next SWBIT.
160	(A0)	BITSTRING	12		Reserved for future use
160	(A0)	X'44'	0	SWBDATST_Z12	"*-SWBSTART" Offset from header to SWB data - Z/OS 1.12+ ( if version is SWBVER12 )
160	(A0)	X'AC'	0	SWBISIZ_Z12	"*-SWBIT" Size of SWBIT header - Z/OS 1.12+ ( if version is SWBVER12 )
172	(AC)	SIGNED	4	SWBDATA_Z12(0)	Start of SWB data - Z/OS 1.12+ ( if version is SWBVER12 )

Table 257. Cross Reference for \$SWBIT

Name	Offset	Hex Tag
SWBDATA_Z11	94	
SWBDATA_Z12	AC	
SWBDATOF	8C	
SWBDATST_Z11	8E	2C
SWBDATST_Z12	A0	44
SWBDKEY	7C	7C
SWBDSKEY	7C	
SWBELENG	82	
SWBILENG	80	
SWBIOTMQ	8E	
SWBISIZ_Z11	8E	94
SWBISIZ_Z12	A0	AC
SWBIT	0	
SWBITID	68	
SWBJBKEY	78	



Table 257. Cross Reference for \$SWBIT (continued)

Name	Offset	Hex Tag
SWBJBNUM	74	
SWBJKEY	7C	78
SWBJNAME	6C	
SWBJOBNM	7C	6C
SWBKEY	78	
SWBMQTRK	94	
SWBNXTRK	9A	
SWBPSWB	0	44
SWBSPLNG	7C	18
SWBSTART	0	68
SWBSWB	0	40
SWBSWBTR	88	
SWBTRACK	84	
SWBVERS	8D	
SWBVER0	8D	0
SWBVER12	8D	C

## \$SXADDR information

### \$SXADDR programming interface information

\$SXADDR is a programming interface.

### \$SXADDR heading information

<b>Common name:</b>	Scan Exit Routine Address Table/DSECT
<b>Macro ID:</b>	\$SXADDR
<b>DSECT name:</b>	SXADDR
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'SXAD' Offset: SXADDRID-SXADDR Length: 4
<b>Storage attributes:</b>	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.
<b>Size:</b>	See SXADDRLN
<b>Created by:</b>	The \$SXADDR is created by assembly of the HASPTABS module in the HASJES20 load module.
<b>Pointed to by:</b>	\$SXADDR field of the \$HCT data area
<b>Serialization:</b>	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 mapping**

Table 258. Structure SXADDR

Offset Dec	Offset Hex	Type	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
Module HASPSXIT exit routines					
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@PREBUFH	"V(PREBUFH)" BUFDEF BELOWBUF prescan
24	(18)	ADDRESS	4	SX@PSTBUFH	"V(PSTBUFH)" BUFDEF BELOWBUF postscan
28	(1C)	ADDRESS	4	SX@PREBUFC	"V(PREBUFC)" BUFDEF EXTBUF prescan
32	(20)	ADDRESS	4	SX@PSTBUFC	"V(PSTBUFC)" BUFDEF EXTBUF postscan
36	(24)	ADDRESS	4	SX@PSTCHARS	"V(PSTCHARS)" COMPACT CHARS= postscan
40	(28)	ADDRESS	4	SX@PRECLSGP	"V(PRECLSGP)" CLASSGRP prescan
44	(2C)	ADDRESS	4	SX@PSTCLSGP	"V(PSTCLSGP)" CLASSGRP postscan
48	(30)	ADDRESS	4	SX@PRECLGCT	"V(PRECLGCT)" CLASSGRP CLASS prescan
52	(34)	ADDRESS	4	SX@PREDCOMP	"V(PREDCOMP)" COMPACT prescan
56	(38)	ADDRESS	4	SX@PSTCOMP	"V(PSTCOMP)" COMPACT postscan
60	(3C)	ADDRESS	4	SX@PREDCCHAR	"V(PREDCCHAR)" COMPACT CHARS= prescan
64	(40)	ADDRESS	4	SX@PSTCMB	"V(PSTCMB)" CONDEF postscan
68	(44)	ADDRESS	4	SX@PSTPREFIX	"V(PSTPREFIX)" CONDEF postscan
72	(48)	ADDRESS	4	SX@PSTCNCHR	"V(PSTCNCHR)" CONDEF CONCHAR= postscan
76	(4C)	ADDRESS	4	SX@PSTRDCHR	"V(PSTRDCHR)" CONDEF RDRCHAR= postscan
80	(50)	ADDRESS	4	SX@PSTSCOPE	"V(PSTSCOPE)" CONDEF SCOPE= postscan
84	(54)	ADDRESS	4	SX@PSTDEBUG	"V(PSTDEBUG)" DEBUG postscan
88	(58)	ADDRESS	4	SX@PSTDEBUGA	"V(PSTDEBUGA)" DEBUG set all postscan
92	(5C)	ADDRESS	4	SX@PREDEST	"V(PREDEST)" DESTID DEST= prescan
96	(60)	ADDRESS	4	SX@PREDESI	"V(PREDESI)" DESTID prescan
100	(64)	ADDRESS	4	SX@PSTDESI	"V(PSTDESI)" DESTID postscan
104	(68)	ADDRESS	4	SX@PREEDST	"V(PREEDST)" EDS prescan (\$T)
108	(6C)	ADDRESS	4	SX@PSTEDST	"V(PSTEDST)" EDS postscan (\$T)
112	(70)	ADDRESS	4	SX@PREESQ	"V(PREESQ)" ESQ prescan



Table 258. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
116	(74)	ADDRESS	4	SX@PREESQST	"V(PREESQST)" ESQ STATUS= prescan
120	(78)	ADDRESS	4	SX@PSTEST	"V(PSTEST)" ESTBYTE/ESTIME/ESTLNCT/ ESTPAGE/ ESTPUN postscan
124	(7C)	ADDRESS	4	SX@PREEXIT	"V(PREEXIT)" EXIT prescan
128	(80)	ADDRESS	4	SX@PSTEXIT	"V(PSTEXIT)" EXIT postscan
132	(84)	ADDRESS	4	SX@PREEXRTN	"V(PREEXRTN)" EXIT ROUTINES= prescan
136	(88)	ADDRESS	4	SX@PREDSBEX	"V(PREDSBEX)" EXIT ROUTINES= vector pre
140	(8C)	ADDRESS	4	SX@PSTDSBEX	"V(PSTDSBEX)" EXIT ROUTINES= vector post
144	(90)	ADDRESS	4	SX@PREFSSDF	"V(PREFSSDF)" FSS prescan
148	(94)	ADDRESS	4	SX@PSTFSSDF	"V(PSTFSSDF)" FSS postscan
152	(98)	ADDRESS	4	SX@PREINCL	"V(PREINCL)" INCLUDE Prescan
156	(9C)	ADDRESS	4	SX@PSTINCL	"V(PSTINCL)" INCLUDE Postscan
160	(A0)	ADDRESS	4	SX@PSTINCDS	"V(PSTINCDS)" INCLUDE DSNAME= Postscan
164	(A4)	ADDRESS	4	SX@CLNUPPRW	"V(CLNUPPRW)" INCLUDE cleanup routine
168	(A8)	ADDRESS	4	SX@PREINIT	"V(PREINIT)" INIT prescan
172	(AC)	ADDRESS	4	SX@PSTINIT	"V(PSTINIT)" INIT postscan
176	(B0)	ADDRESS	4	SX@PREPSJB	"V(PREPSJB)" INIT subparm= prescan
180	(B4)	ADDRESS	4	SX@PREPITCL	"V(PREPITCL)" INIT CLASS= prescan
184	(B8)	ADDRESS	4	SX@PREPTVCL	"V(PREPTVCL)" INIT CLASS= vector prescan
188	(BC)	ADDRESS	4	SX@PSTCLASV	"V(PSTCLASV)" INIT CLASS= postscan verify
192	(C0)	ADDRESS	4	SX@PREINECL	"V(PREINECL)" INIT INELIGIBLE_CLASS= prescan
196	(C4)	ADDRESS	4	SX@PSTINPDF	"V(PSTINPDF)" INPUTDEF postscan
200	(C8)	ADDRESS	4	SX@PSTJECDF	"V(PSTJECDF)" JECLDEF postscan
204	(CC)	ADDRESS	4	SX@PSTJOBCL	"V(PSTJOBCL)" CLASS= validation postscan
208	(D0)	ADDRESS	4	SX@PRE608	"V(PRE608)" JES2 HASP607 rc prescan
212	(D4)	ADDRESS	4	SX@PREAPCE	"V(PREAPCE)" JES2 active PCE prescan
216	(D8)	ADDRESS	4	SX@PREACTAS	"V(PREACTAS)" JES2 active addr sp prescan
220	(DC)	ADDRESS	4	SX@PREANETW	"V(PREANETW)" JES2 active network prescan
224	(E0)	ADDRESS	4	SX@PREHPCE	"V(PREHPCE)" JES2 held PCE prescan
228	(E4)	ADDRESS	4	SX@PREIREA	"V(PREIREA)" JES2 alloc INTRDR prescan
232	(E8)	ADDRESS	4	SX@PREXMEMB	"V(PREXMEMB)" JES2 X-memb request prescan
236	(EC)	ADDRESS	4	SX@PREEOMCT	"V(PREEOMCT)" JES2 EOM activity prescan
240	(F0)	ADDRESS	4	SX@PREPSOCT	"V(PREPSOCT)" JES2 PS0 activity prescan
244	(F4)	ADDRESS	4	SX@PRESAPCT	"V(PRESAPCT)" JES2 SAPI activity prescan
248	(F8)	ADDRESS	4	SX@PREDEVNM	"V(PREDEVNM)" JES2 Device name prescan
252	(FC)	ADDRESS	4	SX@PREDIL	"V(PREDIL)" JES2 DWA BERT prescan
256	(100)	ADDRESS	4	SX@PRESMP	"V(PRESMP)" JES2 SP00L Migration DTE



Table 258. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
260	(104)	ADDRESS	4	SX@PSTDEVST	"V(PSTDEVST)" JES2/NET Line device status
264	(108)	ADDRESS	4	SX@PRELMT	"V(PRELMT)" JES2 Copy \$LIMITS prescan
268	(10C)	ADDRESS	4	SX@PREMLNG	"V(PREMLNG)" JES2 \$D LIMITS, LONG prescan
272	(110)	ADDRESS	4	SX@PRELMMAS	"V(PRELMMAS)" JES2 \$D LIMITS, MASVIEW= scn
276	(114)	ADDRESS	4	SX@PRELMRAT	"V(PRELMRAT)" JES2 LIMTRATE prescan
280	(118)	ADDRESS	4	SX@PRELRUSE	"V(PRELRUSE)" JES2 Locate LIMRUSE prescan
284	(11C)	ADDRESS	4	SX@PRELTCNT	"V(PRELTCNT)" JES2 Locate LIMTCNT prescan
288	(120)	ADDRESS	4	SX@PRELTENT	"V(PRELTENT)" JES2 Locate LIMTENT prescan
292	(124)	ADDRESS	4	SX@PRELTRAT	"V(PRELTRAT)" JES2 Locate LIMTRAT prescan
296	(128)	ADDRESS	4	SX@PSTLMPRV	"V(PSTLMPRV)" JES2 \$T LIMITS, PRIV= pstscn
300	(12C)	ADDRESS	4	SX@PSTLMT	"V(PSTLMT)" JES2 \$D LIMITS postscan
304	(130)	ADDRESS	4	SX@PSTSMENV	"V(PSTSMENV)" JES2 \$T LIMITS, SMALLENV pst
308	(134)	ADDRESS	4	SX@PREENMSG	"V(PREENMSG)" JES2 HASP1199 prescan
312	(138)	ADDRESS	4	SX@PSTCATAC	"V(PSTCATAC)" JOBCCLASS ACTIVE= postscan
316	(13C)	ADDRESS	4	SX@PREDAUTH	"V(PREDAUTH)" JOBCCLASS/STCCCLASS/TSUCLASS AUTH= prescan
320	(140)	ADDRESS	4	SX@PREAUTH	"V(PREAUTH)" JOBCCLASS/STCCCLASS/TSUCLASS AUTH prescan
324	(144)	ADDRESS	4	SX@PSTQHPST	"V(PSTQHPST)" JOBCCLASS QHELD, TYPE, MAX
328	(148)	ADDRESS	4	SX@PSTJQPST	"V(PSTJQPST)" General routine to post XEQ
332	(14C)	ADDRESS	4	SX@PSTOGDJC	"V(PSTOGDJC)" JOBCCLASS/STCCCLASS/TSUCLASS OUTDISP= postscan
336	(150)	ADDRESS	4	SX@PREOGDJC	"V(PREOGDJC)" JOBCCLASS/STCCCLASS/TSUCLASS OUTDISP= prescan
340	(154)	ADDRESS	4	SX@PREPROJC	"V(PREPROJC)" JOBCCLASS/STCCCLASS/TSUCLASS PROCLIB= display prescan
344	(158)	ADDRESS	4	SX@PSTPROJC	"V(PSTPROJC)" JOBCCLASS/STCCCLASS/TSUCLASS PROCLIB= set poststat
348	(15C)	ADDRESS	4	SX@PREREGN	"V(PREREGN)" JOBCCLASS/STCCCLASS/TSUCLASS REGION= prescan
352	(160)	ADDRESS	4	SX@PSTREGN	"V(PSTREGN)" JOBCCLASS/STCCCLASS/TSUCLASS REGION= postscan
356	(164)	ADDRESS	4	SX@PSTCAT	"V(PSTCAT)" JOBCCLASS/STCCCLASS/TSUCLASS command postscan
360	(168)	ADDRESS	4	SX@PSTCATI	"V(PSTCATI)" JOBCCLASS init stmt postscan
364	(16C)	ADDRESS	4	SX@PSTCATNW	"V(PSTCATNW)" JOBCCLASS postscan
368	(170)	ADDRESS	4	SX@PREJESLS	"V(PREJESLS)" JOBCCLASS JESLOG SET prescan
372	(174)	ADDRESS	4	SX@PREJESLD	"V(PREJESLD)" JOBCCLASS JESLOG DISP prescn
376	(178)	ADDRESS	4	SX@PRECATRS	"V(PRECATRS)" JOBCCLASS RESOURCE= prescan
380	(17C)	ADDRESS	4	SX@PRECATLM	"V(PRECATLM)" JOBCCLASS RESOURCE=LIMIT= prescan



Table 258. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
384	(180)	ADDRESS	4	SX@PREMESYS	"V(PREMEYS)" MASDEF AUTOEMEM= prescan
388	(184)	ADDRESS	4	SX@PSTMESYS	"V(PSTMESYS)" MASDEF AUTOEMEM= postscan
392	(188)	ADDRESS	4	SX@PRERHELD	"V(PRERHELD)" MASDEF RSVHELD= prescan
396	(18C)	ADDRESS	4	SX@PSTDRHL	"V(PSTDRHL)" MASDEF HOLD= and DORMANCY= postscan
400	(190)	ADDRESS	4	SX@PSTMASDF	"V(PSTMASDF)" MASDEF ENF= postscan
404	(194)	ADDRESS	4	SX@PSTCCM2	"V(PSTCCM2)" MASDEF CYCLEMG= postscan
408	(198)	ADDRESS	4	SX@PREDQST	"V(PREDQST)" MEMBER STATUS= prescan
412	(19C)	ADDRESS	4	SX@PREMEFD	"V(PREMEFD)" MEMBER IND= prescan
416	(1A0)	ADDRESS	4	SX@PSTNAME	"V(PSTNAME)" MEMBER NAME=/MASDEF OWNMEMB= postscan
420	(1A4)	ADDRESS	4	SX@PREDSID	"V(PREDSID)" MEMBER RESETBY=, SPOOL MIGRATOR prescan
424	(1A8)	ADDRESS	4	SX@PSTMIND	"V(PSTMIND)" MEMBER IND= postscan
428	(1AC)	ADDRESS	4	SX@PSTEMEM	"V(PSTEMEM)" MEMBER postscan
432	(1B0)	ADDRESS	4	SX@PREDEMEM	"V(PREDEMEM)" MEMBER prescan
436	(1B4)	ADDRESS	4	SX@PRECKPTT	"V(PRECKPTT)" MEMBER TIME= prescan
440	(1B8)	ADDRESS	4	SX@PREMSNM	"V(PREMSNM)" MEMBER SYSNAME= prescan
444	(1BC)	ADDRESS	4	SX@PREXWA	"V(PREXWA)" Prescan to clear \$SCANXWA
448	(1C0)	ADDRESS	4	SX@PREOGDOS	"V(PREOGDOS)" OUTCLASS prescan
452	(1C4)	ADDRESS	4	SX@PSTOGDOS	"V(PSTOGDOS)" OUTCLASS postscan
456	(1C8)	ADDRESS	4	SX@PREOGDOC	"V(PREOGDOC)" OUTCLASS OUTDISP= prescan
460	(1CC)	ADDRESS	4	SX@PSTOGDOC	"V(PSTOGDOC)" OUTCLASS OUTDISP= postscan
464	(1D0)	ADDRESS	4	SX@PREPCETB	"V(PREPCETB)" PCE command prescan
468	(1D4)	ADDRESS	4	SX@PSTPCETB	"V(PSTPCETB)" PCE set command postscan
472	(1D8)	ADDRESS	4	SX@PREPCEDT	"V(PREPCEDT)" PCE DETAILS prescan
476	(1DC)	ADDRESS	4	SX@PREPCEDN	"V(PREPCEDN)" PCE DETAILS NAME prescan
480	(1E0)	ADDRESS	4	SX@PREPCEWF	"V(PREPCEWF)" PCE DETAILS WAIT prescan
484	(1E4)	ADDRESS	4	SX@PREPCEDJ	"V(PREPCEDJ)" PCE DETAILS CURJOB prescan
488	(1E8)	ADDRESS	4	SX@PREPCEFW	"V(PREPCEFW)" PCE DETAILS subparm prescan
492	(1EC)	ADDRESS	4	SX@PREPRFRS	"V(PREPRFRS)" PERFDATA RESET prescan
496	(1F0)	ADDRESS	4	SX@PREPRFSU	"V(PREPRFSU)" PERFDATA setup prescan
500	(1F4)	ADDRESS	4	SX@PREVDUR	"V(PREVDUR)" PERFDATA(EVENT) DURATION=
504	(1F8)	ADDRESS	4	SX@PREPRFPC	"V(PREPRFPC)" PERFDATA(PESTAT) CPU% prescan
508	(1FC)	ADDRESS	4	SX@PREPRFNL	"V(PREPRFNL)" PERFDATA(PESTAT) PCENAME= prescan
512	(200)	ADDRESS	4	SX@PREPRFFL	"V(PREPRFFL)" PERFDATA(PESTAT) PCENAME= prescan
516	(204)	ADDRESS	4	SX@PREPRFPS	"V(PREPRFPS)" PERFDATA(PESTAT) POST= prescan
520	(208)	ADDRESS	4	SX@PREWAITP	"V(PREWAITP)" PERFDATA(PESTAT) WAIT= prescan



Table 258. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
524	(20C)	ADDRESS	4	SX@PREPRFWA	"V(PREPRFWA)" PERFDATA(PCESTAT) AVGWAIT= prescan
528	(210)	ADDRESS	4	SX@PREPRFPA	"V(PREPRFPA)" PERFDATA(PCESTAT) AVGWAIT= prescan
532	(214)	ADDRESS	4	SX@PREPRFQA	"V(PREPRFQA)" PERFDATA(QSUSE) AVGWAIT= prescan
536	(218)	ADDRESS	4	SX@PREPDRPT	"V(PREPDRPT)" PERFDATA(SAMPDATA) RPTCLASS=
540	(21C)	ADDRESS	4	SX@PREPDSRV	"V(PREPDSRV)" PERFDATA(SAMPDATA) SRVCLASS=
544	(220)	ADDRESS	4	SX@PREWSC	"V(PREWSC)" PERFDATA(SAMPDATA) and SRVCLASS prescan
548	(224)	ADDRESS	4	SX@PREWSCA	"V(PREWSCA)" SRVCLASS prescan for \$ADD
552	(228)	ADDRESS	4	SX@PSTWSCA	"V(PSTWSCA)" SRVCLASS pstscan for \$ADD
556	(22C)	ADDRESS	4	SX@PSTWSCB	"V(PSTWSCB)" SRVCLASS pstscan for \$ADD
560	(230)	ADDRESS	4	SX@PREPRFZR	"V(PREPRFZR)" PERFDATA skip if 0 prescan
564	(234)	ADDRESS	4	SX@PREPRFCT	"V(PREPRFCT)" PERFDATA skip if CYCLEMGT=MANUAL
568	(238)	ADDRESS	4	SX@PREPRFDT	"V(PREPRFDT)" PERFDATA microsecond display prescan
572	(23C)	ADDRESS	4	SX@PREPCY	"V(PREPCY)" \$POLICY prescan exit
576	(240)	ADDRESS	4	SX@PSTPCY	"V(PSTPCY)" \$POLICY postscan exit
580	(244)	ADDRESS	4	SX@CLNPCY	"V(CLNPCY)" \$POLICY cleanup exit
584	(248)	ADDRESS	4	SX@PSTPRTFD	"V(PSTPRTFD)" PRINTDEF postscan for \$T
588	(24C)	ADDRESS	4	SX@PSTRECV	"V(PSTRECV)" RECVOPTS postscan
592	(250)	ADDRESS	4	SX@PRERDSTM	"V(PREDSTM)" REDIRECT prescan
596	(254)	ADDRESS	4	SX@PSTRDSTM	"V(PSTRDSTM)" REDIRECT postscan
600	(258)	ADDRESS	4	SX@PRECMDR	"V(PRECMDR)" REDIRECT subparm= prescan
604	(25C)	ADDRESS	4	SX@PREDRGI	"V(PREDRGI)" RESGROUP init stmt prescan
608	(260)	ADDRESS	4	SX@PSTDROI	"V(PSTDROI)" RESGROUP init stmt postscan
612	(264)	ADDRESS	4	SX@PRERGR	"V(PRERGR)" RESGROUP command prescan
616	(268)	ADDRESS	4	SX@PSTRGR	"V(PSTRGR)" RESGROUP command postscan
620	(26C)	ADDRESS	4	SX@PRERGRRS	"V(PRERGRRS)" RESGROUP RESOURCE= prescan
624	(270)	ADDRESS	4	SX@PSTSMFD	"V(PSTSMFD)" SMFDEF postscan
628	(274)	ADDRESS	4	SX@PRESPOOL	"V(PRESPOOL)" SPOOL prescan
632	(278)	ADDRESS	4	SX@PREISPOL	"V(PREISPOL)" SPOOL init stmt prescan
636	(27C)	ADDRESS	4	SX@PSTSPPOOL	"V(PSTSPPOOL)" SPOOL postscan
640	(280)	ADDRESS	4	SX@PREDUSEC	"V(PREDUSEC)" SPOOL TGINUSE= prescan
644	(284)	ADDRESS	4	SX@PREDUSEP	"V(PREDUSEP)" SPOOL PERCENT= prescan
648	(288)	ADDRESS	4	SX@CVLDRAIN	"V(CVLDRAIN)" SPOOL AWAITING= prescan
652	(28C)	ADDRESS	4	SX@PREDSSAF	"V(PREDSSAF)" SPOOL SYSAFF= prescan
656	(290)	ADDRESS	4	SX@PREISPSF	"V(PREISPSF)" SPOOL INIT SYSAFF= prescan



Table 258. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
660	(294)	ADDRESS	4	SX@PREFSPAF	"V(PREFSPAF)" SPOOL SYSAFF= prescan fltr
664	(298)	ADDRESS	4	SX@PSTSPDSN	"V(PSTSPDSN)" SPOOL DSNAM= postscan
668	(29C)	ADDRESS	4	SX@PREATTR	"V(PREATTR)" SPOOL unit data attributes
672	(2A0)	ADDRESS	4	SX@PREDSTS	"V(PREDSTS)" SPOOL STATUS= prescan
676	(2A4)	ADDRESS	4	SX@PSTDWRKQ	"V(PSTDWRKQ)" SPOOL STATUS= postscan
680	(2A8)	ADDRESS	4	SX@PSTSPSAF	"V(PSTSPSAF)" SPOOL SYSAFF= postscan
684	(2AC)	ADDRESS	4	SX@PRESPT	"V(PRESPT)" SPOOL SPACE= prescan
688	(2B0)	ADDRESS	4	SX@PSTSPSTX	"V(PSTSPSTX)" SPOOL SPACE= postscan
692	(2B4)	ADDRESS	4	SX@PSTSPSTAR	"V(PSTSPSTAR)" SPOOL TARGET= postscan
696	(2B8)	ADDRESS	4	SX@PREMIGDA	"V(PREMIGDA)" SPOOL MIGDATA= prescan
700	(2BC)	ADDRESS	4	SX@PREMPERC	"V(PREMPERC)" SPOOL MPERCENT= prescan
704	(2C0)	ADDRESS	4	SX@PREDRSVD	"V(PREDRSVD)" SPOOL RESERVED= prescan
708	(2C4)	ADDRESS	4	SX@PREABSTR	"V(PREABSTR)" SPOOL ABSTR= prescan
712	(2C8)	ADDRESS	4	SX@PREDSSI	"V(PREDSSI)" SSI prescan
716	(2CC)	ADDRESS	4	SX@PRETPB	"V(PRETPB)" TPDEF BSCBUF prescan
720	(2D0)	ADDRESS	4	SX@PSTTPB	"V(PSTTPB)" TPDEF BSCBUF postscan
724	(2D4)	ADDRESS	4	SX@PRETPS	"V(PRETPS)" TPDEF SNABUF prescan
728	(2D8)	ADDRESS	4	SX@PSTTPS	"V(PSTTPS)" TPDEF SNABUF postscan
732	(2DC)	ADDRESS	4	SX@PSTSICE	"V(PSTSICE)" TPDEF postscan
736	(2E0)	ADDRESS	4	SX@PSTLSPIN	"V(PSTLSPIN)" TRACEDEF SPIN postscan
740	(2E4)	ADDRESS	4	SX@PSTNOTAB	"V(PSTNOTAB)" TRACEDEF postscan
744	(2E8)	ADDRESS	4	SX@PRETDFID	"V(PRETDFID)" TRACEDEF IDS= prescan
748	(2EC)	ADDRESS	4	SX@PRETRCID	"V(PRETRCID)" TRACE prescan
752	(2F0)	ADDRESS	4	SX@PSTTRFLT	"V(PSTTRFLT)" TRACE filtering postscan
756	(2F4)	ADDRESS	4	SX@PRENULL	"V(PRENULL)" General prescan routine to skip keyword (returns RC=8)
760	(2F8)	ADDRESS	4	SX@PSTLIM1	"V(PSTLIM1)" General LIMIT/PLIM/RANGE postscan
764	(2FC)	ADDRESS	4	SX@PRELIMIT	"V(PRELIMIT)" General LIMIT/PLIM/ RANGE prescan
768	(300)	ADDRESS	4	SX@PSTLIMIT	"V(PSTLIMIT)" General LIMIT/PLIM/ RANGE postscan
772	(304)	ADDRESS	4	SX@PREHOTS	"V(PREHOTS)" General prescan to ignore keyword on hot start
776	(308)	ADDRESS	4	SX@PREDNEGZ	"V(PREDNEGZ)" General prescan to display 0 for negative value
780	(30C)	ADDRESS	4	SX@PREDNOCB	"V(PREDNOCB)" General prescan to test for missing control block
784	(310)	ADDRESS	4	SX@PRECAT	"V(PRECAT)" JOBCLASS command prescan
788	(314)	ADDRESS	4	SX@PRECATI	"V(PRECATI)" JOBCLASS init stmt prescan
792	(318)	ADDRESS	4	SX@PRECATTS	"V(PRECATTS)" STCCCLASS/TSUCLASS prescan
796	(31C)	ADDRESS	4	SX@PSTCGROP	"V(PSTCGROP)" JOBCLASS GROUP postscan
800	(320)	ADDRESS	4	SX@PREPITRS	"V(PREPITRS)" INIT STATUS=STARTING prescan
804	(324)	ADDRESS	4	SX@PREDSAFL	"V(PREDSAFL)" General prescan to display list of affinities



Table 258. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
808	(328)	ADDRESS	4	SX@PREISTC	"V(PREISTC)" INIT STC= prescan
812	(32C)	ADDRESS	4	SX@PSTCATSC	"V(PSTCATSC)" JOBCCLASS SCHENV= postscan
816	(330)	ADDRESS	4	SX@PSTCSCHE	"V(PSTCSCHE)" JOBCCLASS SCHENV = Pstscan
820	(334)	ADDRESS	4	SX@PREZAPJB	"V(PREZAPJB)" ZAPJOB Prescan
824	(338)	ADDRESS	4	SX@PSTZAPJB	"V(PSTZAPJB)" ZAPJOB Postscan
828	(33C)	ADDRESS	4	SX@PSTVJBID	"V(PSTVJBID)" Validate JOBID keyword
832	(340)	ADDRESS	4	SX@PREJCLMD	"V(PREJCLMD)" JOBCCLASS MODE prescan
836	(344)	ADDRESS	4	SX@PSTJCLMD	"V(PSTJCLMD)" JOBCCLASS MODE postscan
840	(348)	ADDRESS	4	SX@PSTHPRM	"V(PSTHPRM)" INIT PARM HASPPARM = postscan
844	(34C)	ADDRESS	4	SX@PSTPMEM	"V(PSTPMEM)" INIT PARM MEMBER = postscan
848	(350)	ADDRESS	4	SX@PREZRCHK	"V(PREZRCHK)" General prescan to skip display if field is zero
852	(354)	ADDRESS	4	SX@PRENZRCK	"V(PRENZRCK)" General prescan to skip display if field is not 0
856	(358)	ADDRESS	4	SX@PREFFCHK	"V(PREFFCHK)" General prescan to skip display if field is FFs
860	(35C)	ADDRESS	4	SX@PREFLHOT	"V(PREFLHOT)" COLD/FORMAT start option
864	(360)	ADDRESS	4	SX@PREDEVID	"V(PREDEVID)" General prescan to display devid fields
868	(364)	ADDRESS	4	SX@PREZPSEQ	"V(PREZPSEQ)" Format z/OS product level
872	(368)	ADDRESS	4	SX@PREFMAVG	"V(PREFMAVG)" Display average (x100)
876	(36C)	ADDRESS	4	SX@PSTSNQ	"V(PSTSNQ)" System data set ENQs
880	(370)	ADDRESS	4		Reserved for future use
884	(374)	ADDRESS	4		Reserved for future use
888	(378)	ADDRESS	4		Reserved for future use
892	(37C)	ADDRESS	4		Reserved for future use
896	(380)	ADDRESS	4		Reserved for future use
Module HASPSXDV exit routines Note: Many routines in HASPSXDV are called for several types of devices or several keywords on a specific device type.					
900	(384)	ADDRESS	4	SX@PREACMEM	"V(PREACMEM)" ACTRMT MEMBER= prescan
904	(388)	ADDRESS	4	SX@PSTIRTRC	"V(PSTIRTRC)" INTRDR TRACE=
908	(38C)	ADDRESS	4	SX@PRELDVL	"V(PRELDVL)" Ln prescan
912	(390)	ADDRESS	4	SX@PRELDEV	"V(PRELDEV)" Ln.dev prescan
916	(394)	ADDRESS	4	SX@PSTTRANS	"V(PSTTRANS)" Ln.dev postscan
920	(398)	ADDRESS	4	SX@PRELINE	"V(PRELINE)" LINE prescan
924	(39C)	ADDRESS	4	SX@PSTLINE	"V(PSTLINE)" LINE postscan
928	(3A0)	ADDRESS	4	SX@PSTLINEA	"V(PSTLINEA)" LINE postscan
932	(3A4)	ADDRESS	4	SX@PRELNSTK	"V(PRELNSTK)" LINE CONNECT time prescan
936	(3A8)	ADDRESS	4	SX@PRELDFLT	"V(PRELDFLT)" LINE JTNUM=/STNUM=/JRNUM=/SRNUM= prescan
940	(3AC)	ADDRESS	4	SX@PRELDNDE	"V(PRELDNDE)" LINE NODES= display prescan



Table 258. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
944	(3B0)	ADDRESS	4	SX@PRELFNDE	"V(PRELFNDE)" LINE NODES= display prescan
948	(3B4)	ADDRESS	4	SX@PSTLTRST	"V(PSTLTRST)" LINE TRACE= set postscan
952	(3B8)	ADDRESS	4	SX@PSTLTRSS	"V(PSTLTRSS)" LINE TRACE= set postscan
956	(3BC)	ADDRESS	4	SX@PREVTRC	"V(PREVTRC)" LINE/NETSRV TRACE= filter prescan
960	(3C0)	ADDRESS	4	SX@PRELNER	"V(PRELNER)" LINE RMTSHARE= prescan
964	(3C4)	ADDRESS	4	SX@PRELINST	"V(PRELINST)" LINE STATUS= prescan
968	(3C8)	ADDRESS	4	SX@PSTLINST	"V(PSTLINST)" LINE STATUS= postscan
972	(3CC)	ADDRESS	4	SX@PSTLGNA	"V(PSTLGNA)" LOGON postscan
976	(3D0)	ADDRESS	4	SX@PSTSRVA	"V(PSTSRVA)" NETSRV postscan
980	(3D4)	ADDRESS	4	SX@PRESVSES	"V(PRESVSES)" NETSRV SESSIONS= prescan
984	(3D8)	ADDRESS	4	SX@PSTSVSCK	"V(PSTSVSCK)" NETSRV SOCKET= postscan
988	(3DC)	ADDRESS	4	SX@PSTNTRST	"V(PSTNTRST)" NETSRV TRACE= set postscan
992	(3E0)	ADDRESS	4	SX@PSTNTRSS	"V(PSTNTRSS)" NETSRV TRACE= set postscan
996	(3E4)	ADDRESS	4	SX@PREOGDSR	"V(PREOGDSR)" OFFn.SR OUTDISP= prescan
1000	(3E8)	ADDRESS	4	SX@PSTMDRC	"V(PSTMDRC)" OFFn.SR MOD=ROUTECD= postscan
1004	(3EC)	ADDRESS	4	SX@PREOGDST	"V(PREOGDST)" OFFn.ST/Ln.ST OUTDISP= prescan
1008	(3F0)	ADDRESS	4	SX@PSTMDSAF	"V(PSTMDSAF)" OFFn.JR MOD=SYSAFF= postscan
1012	(3F4)	ADDRESS	4	SX@PREDSAF	"V(PREDSAF)" OFF.JT/OFF.JR SYSAFF= prescan
1016	(3F8)	ADDRESS	4	SX@PSTSAF	"V(PSTSAF)" OFF.JT/OFF.JR SYSAFF= postscan
1020	(3FC)	ADDRESS	4	SX@PREOFFCL	"V(PREOFFCL)" OFF.JT/OFF.JR class prescan
1024	(400)	ADDRESS	4	SX@PSTOARCH	"V(PSTOARCH)" OFFLOAD ARCHIVE= postscan
1028	(404)	ADDRESS	4	SX@PREPROCL	"V(PREPROCL)" PROCLIB prescan
1032	(408)	ADDRESS	4	SX@PSTPROCL	"V(PSTPROCL)" PROCLIB postscan
1036	(40C)	ADDRESS	4	SX@CLNUPPAD	"V(CLNUPPAD)" PROCLIB cleanup routine
1040	(410)	ADDRESS	4	SX@PSTPADDD	"V(PSTPADDD)" PROCLIB DD set
1044	(414)	ADDRESS	4	SX@PSTDDSET	"V(PSTDDSET)" PROCLIB DD DSN/PATH set
1048	(418)	ADDRESS	4	SX@PSTPDVOL	"V(PSTPDVOL)" PROCLIB DD VOLSER set
1052	(41C)	ADDRESS	4	SX@PREPRT	"V(PREPRT)" PRT prescan
1056	(420)	ADDRESS	4	SX@PSTPRT	"V(PSTPRT)" PRT postscan
1060	(424)	ADDRESS	4	SX@PREDFLNO	"V(PREDFLNO)" PRT DEVFLASH= prescan
1064	(428)	ADDRESS	4	SX@PSTPRDFL	"V(PSTPRDFL)" PRT DEVFLASH= postscan
1068	(42C)	ADDRESS	4	SX@PSTDDFCB	"V(PSTDDFCB)" PRT/Rn.PRn DEVFCB= postscan
1072	(430)	ADDRESS	4	SX@PSTPRFCB	"V(PSTPRFCB)" PRT/Rn.PRn FCB= postscan
1076	(434)	ADDRESS	4	SX@PSTDFCB	"V(PSTDFCB)" PRT/Rn.PRn FCB= postscan
1080	(438)	ADDRESS	4	SX@PSTPRFLS	"V(PSTPRFLS)" PRT FLASH= postscan



Table 258. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1084	(43C)	ADDRESS	4	SX@PREDFSS	"V(PREDFSS)" PRT FSS= prescan
1088	(440)	ADDRESS	4	SX@PSTSFSS	"V(PSTSFSS)" PRT FSS= postscan
1092	(444)	ADDRESS	4	SX@PRELSFRM	"V(PRELSFRM)" PRT LASTFORM= prescan
1096	(448)	ADDRESS	4	SX@PREPMODE	"V(PREPMODE)" PRT PRMODE= prescan
1100	(44C)	ADDRESS	4	SX@PSTPRUCS	"V(PSTPRUCS)" PRT/Rn.PRn UCS= postscan
1104	(450)	ADDRESS	4	SX@PSTDUCS	"V(PSTDUCS)" PRT/Rn.PRn UCS= postscan
1108	(454)	ADDRESS	4	SX@PFSQUERY	"V(PFSQUERY)" PRT subpair= prescan (FSS query)
1112	(458)	ADDRESS	4	SX@PFSQFREE	"V(PFSQFREE)" PRT subpair= prescan (PFSQUERY cleanup)
1116	(45C)	ADDRESS	4	SX@PRENIPRT	"V(PRENIPRT)" PRT subpair= prescan (test non-impact)
1120	(460)	ADDRESS	4	SX@PREPIFNL	"V(PREPIFNL)" PRT subpair= prescan (test **** value)
1124	(464)	ADDRESS	4	SX@PRPRESET	"V(PRPRESET)" PRT subpair= prescan (test RESET value)
1128	(468)	ADDRESS	4	SX@PREDEVDR	"V(PREDEVDR)" PRT subpair= prescan (test drain)
1132	(46C)	ADDRESS	4	SX@PREOPACT	"V(PREOPACT)" PRT subpair= prescan (test operator action)
1136	(470)	ADDRESS	4	SX@PSTFSUPD	"V(PSTFSUPD)" PRT subpair= postscan (FSA update)
1140	(474)	ADDRESS	4	SX@PSTFSNSP	"V(PSTFSNSP)" PRT subpair= postscan (FSACB update)
1144	(478)	ADDRESS	4	SX@PSTFSSET	"V(PSTFSSET)" PRT subpair= postscan (FSS SET order)
1148	(47C)	ADDRESS	4	SX@PSTFSYNC	"V(PSTFSYNC)" PRT subpair= postscan (FSS SYNCH order)
1152	(480)	ADDRESS	4	SX@PSTPUN	"V(PSTPUN)" PUN postscan
1156	(484)	ADDRESS	4	SX@PRERDEV	"V(PRERDEV)" Rn.dev prescan
1160	(488)	ADDRESS	4	SX@PRERDVAU	"V(PRERDVAU)" PR/PU/RD prescan to verify command from remote device
1164	(48C)	ADDRESS	4	SX@PSTSELCT	"V(PSTSELCT)" Rn.PRn/Rn.PUn SELECT= postscan
1168	(490)	ADDRESS	4	SX@PREDSLCT	"V(PREDSLCT)" Rn.PRn/Rn.PUn SELECT= prescan
1172	(494)	ADDRESS	4	SX@PSTRDVCM	"V(PSTRDVCM)" Rn.PRn/Rn.PUn CMPCT= postscan
1176	(498)	ADDRESS	4	SX@PSTRDVCO	"V(PSTRDVCO)" Rn.PRn/Rn.PUn COMPRESS= postscan
1180	(49C)	ADDRESS	4	SX@PSTRDEV	"V(PSTRDEV)" Rn.PRn/Rn.PUn postscan
1184	(4A0)	ADDRESS	4	SX@PRERMTRC	"V(PRERMTRC)" Rn.PRn/Rn.PUn ROUTECDE= prescan
1188	(4A4)	ADDRESS	4	SX@PRERPZPT	"V(PRERPZPT)" Rn.PRn/Rn.PUn COMPACT= prescan
1192	(4A8)	ADDRESS	4	SX@PREDPZPT	"V(PREDPZPT)" Rn.PRn/Rn.PUn COMPACT= prescan
1196	(4AC)	ADDRESS	4	SX@PRERMT	"V(PRERMT)" RMT prescan
1200	(4B0)	ADDRESS	4	SX@PSTRMT	"V(PSTRMT)" RMT postscan
1204	(4B4)	ADDRESS	4	SX@PSTRMTA	"V(PSTRMTA)" RMT postscan
1208	(4B8)	ADDRESS	4	SX@PSTRMTLN	"V(PSTRMTLN)" RMT LINE= prescan
1212	(4BC)	ADDRESS	4	SX@PRERMTP	"V(PRERMTP)" RMT PASSWORD= prescan



Table 258. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1216	(4C0)	ADDRESS	4	SX@PRERMTSH	"V(PRERMTSH)" RMT SHARABLE= prescan
1220	(4C4)	ADDRESS	4	SX@PSTRMTSH	"V(PSTRMTSH)" RMT SHARABLE= postscan
1224	(4C8)	ADDRESS	4	SX@PRERMTST	"V(PRERMTST)" RMT STATUS= prescan
1228	(4CC)	ADDRESS	4	SX@PREMULFM	"V(PREMULFM)" Device FORMS= prescan
1232	(4D0)	ADDRESS	4	SX@PSTWFORM	"V(PSTWFORM)" Device FORMS= postscan
1236	(4D4)	ADDRESS	4	SX@PSTJOBNM	"V(PSTJOBNM)" Device JOBNAME= postscan
1240	(4D8)	ADDRESS	4	SX@PSTPRMD	"V(PSTPRMD)" Device PRMODE= postscan
1244	(4DC)	ADDRESS	4	SX@PREDPRMD	"V(PREDPRMD)" Device PRMODE= prescan
1248	(4E0)	ADDRESS	4	SX@PREFPRMD	"V(PREFPRMD)" Device PRMODE= prescan
1252	(4E4)	ADDRESS	4	SX@PRERDEST	"V(PRERDEST)" Device PRTDEST/PUNDEST/XEQDEST prescan
1256	(4E8)	ADDRESS	4	SX@PRERNRG	"V(PRERNRG)" Device RANGE= prescan
1260	(4EC)	ADDRESS	4	SX@PREDRNG	"V(PREDRNG)" Device RANGE= prescan
1264	(4F0)	ADDRESS	4	SX@PREDVSTK	"V(PREDVSTK)" Device RESTART time prescan
1268	(4F4)	ADDRESS	4	SX@PSTRC	"V(PSTRC)" Device ROUTECDE= postscan
1272	(4F8)	ADDRESS	4	SX@PREDRC	"V(PREDRC)" Device ROUTECDE= prescan
1276	(4FC)	ADDRESS	4	SX@PREFRC	"V(PREFRC)" Device ROUTECDE= prescan
1280	(500)	ADDRESS	4	SX@PREDSTAT	"V(PREDSTAT)" Device STATUS= prescan
1284	(504)	ADDRESS	4	SX@PREDDVJB	"V(PREDDVJB)" Device STATUS= prescan
1288	(508)	ADDRESS	4	SX@PREDDVRC	"V(PREDDVRC)" Device STATUS= prescan
1292	(50C)	ADDRESS	4	SX@PREDRSAF	"V(PREDRSAF)" Device SYSAFF= prescan
1296	(510)	ADDRESS	4	SX@PSTSRSAF	"V(PSTSRSAF)" Device SYSAFF= postscan
1300	(514)	ADDRESS	4	SX@PSTSRSF2	"V(PSTSRSF2)" Device SYSAFF= postscan
1304	(518)	ADDRESS	4	SX@PSTUNIT	"V(PSTUNIT)" Device UNIT= postscan
1308	(51C)	ADDRESS	4	SX@PREUNIT	"V(PREUNIT)" Device UNIT= postscan
1312	(520)	ADDRESS	4	SX@PSTVOL	"V(PSTVOL)" Device VOLUME= postscan
1316	(524)	ADDRESS	4	SX@PREDWS	"V(PREDWS)" Device WS= prescan
1320	(528)	ADDRESS	4	SX@PSTWS	"V(PSTWS)" Device WS= postscan
1324	(52C)	ADDRESS	4	SX@PSTTRCDV	"V(PSTTRCDV)" Device TRACE= postscan
1328	(530)	ADDRESS	4	SX@PREDVDRN	"V(PREDVDRN)" General prescan to test device status
1332	(534)	ADDRESS	4	SX@PRETRCDV	"V(PRETRCDV)" General prescan to verify SYSTEM authority from remote device
1336	(538)	ADDRESS	4	SX@PREDRRC	"V(PREDRRC)" General ROUTECDE= prescan
1340	(53C)	ADDRESS	4	SX@PREFRRC	"V(PREFRRC)" General ROUTECDE= prescan
1344	(540)	ADDRESS	4	SX@PREMULRC	"V(PREMULRC)" Multiple route code prescan
1348	(544)	ADDRESS	4	SX@PRERPRPU	"V(PRERPRPU)" Rn.PRn/Rn.PUn LRECL= presc
1352	(548)	ADDRESS	4	SX@PSTRPRPU	"V(PSTRPRPU)" Rn.PRn/Rn.PUn LRECL= postsc
1356	(54C)	ADDRESS	4	SX@PSTCDCT	"V(PSTCDCT)" CDCT synch, all devices
1360	(550)	ADDRESS	4	SX@PSTCDCTO	"V(PSTCDCTO)" CDCT synch, offload devices
1364	(554)	ADDRESS	4	SX@PSTCDCTS	"V(PSTCDCTS)" CDCT synch, MDCDCT chain is processed.



Table 258. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1368	(558)	ADDRESS	4	SX@PSTSBMDD	"V(PSTSBMDD)" SUBMITRDR DD_DEFAULT= pstsc
1372	(55C)	ADDRESS	4		Reserved for future use
1376	(560)	ADDRESS	4		Reserved for future use
1380	(564)	ADDRESS	4		Reserved for future use
1384	(568)	ADDRESS	4		Reserved for future use
1388	(56C)	ADDRESS	4		Reserved for future use
1392	(570)	ADDRESS	4		Reserved for future use
1396	(574)	ADDRESS	4		Reserved for future use
1400	(578)	ADDRESS	4		Reserved for future use
1404	(57C)	ADDRESS	4		Reserved for future use
Module HASPSXNJ exit routines					
1408	(580)	ADDRESS	4	SX@PREAPPL	"V(PREAPPL)" APPL prescan
1412	(584)	ADDRESS	4	SX@PSTAPPL	"V(PSTAPPL)" APPL postscan
1416	(588)	ADDRESS	4	SX@PREAPSTK	"V(PREAPSTK)" APPL CONNECT= time prescan
1420	(58C)	ADDRESS	4	SX@PRELDED	"V(PRELDED)" APPL/NODE/SOCKET LINE= prescan
1424	(590)	ADDRESS	4	SX@PSTLDED	"V(PSTLDED)" APPL/NODE/SOCKET LINE= postscan
1428	(594)	ADDRESS	4	SX@PREAPNOD	"V(PREAPNOD)" APPL/SOCKET NODE= prescan
1432	(598)	ADDRESS	4	SX@PRECONCT	"V(PRECONCT)" CONNECT prescan
1436	(59C)	ADDRESS	4	SX@PSTCONCT	"V(PSTCONCT)" CONNECT postscan
1440	(5A0)	ADDRESS	4	SX@PSTDCNCT	"V(PSTDCNCT)" CONNECT postscan
1444	(5A4)	ADDRESS	4	SX@PRECMEMB	"V(PRECMEMB)" CONNECT MEMBA/MEMBB prescan
1448	(5A8)	ADDRESS	4	SX@PRECNODE	"V(PRECNODE)" CONNECT NODEA/NODEB prescan
1452	(5AC)	ADDRESS	4	SX@PREFNODE	"V(PREFNODE)" CONNECT NODEA/NODEB prescan
1456	(5B0)	ADDRESS	4	SX@PREFNPM	"V(PREFNPM)" CONNECT PATHMGR= prescan
1460	(5B4)	ADDRESS	4	SX@PREDNPM	"V(PREDNPM)" CONNECT PATHMGR= prescan
1464	(5B8)	ADDRESS	4	SX@PREDCRST	"V(PREDCRST)" CONNECT REST= prescan
1468	(5BC)	ADDRESS	4	SX@PSTCSTAT	"V(PSTCSTAT)" CONNECT STATUS= postscan
1472	(5C0)	ADDRESS	4	SX@PREDSesn	"V(PREDSesn)" LINE/LOGON SESSIONS= prescan
1476	(5C4)	ADDRESS	4	SX@POSTNRM	"V(POSTNRM)" \$POST Net Resource Monitor
1480	(5C8)	ADDRESS	4	SX@PRESZNET	"V(PRESZNET)" \$\$/\$P/\$Z NET prescan
1484	(5CC)	ADDRESS	4	SX@PSTSNET	"V(PSTSNET)" \$\$/\$P/\$Z NET postscan
1488	(5D0)	ADDRESS	4	SX@PREDNET	"V(PREDNET)" NETACCT prescan
1492	(5D4)	ADDRESS	4	SX@PREPIDNT	"V(PREPIDNT)" NETACCT prescan
1496	(5D8)	ADDRESS	4	SX@PSTNETAC	"V(PSTNETAC)" NETACCT postscan
1500	(5DC)	ADDRESS	4	SX@PSTNRT	"V(PSTNRT)" NJEDEF postscan
1504	(5E0)	ADDRESS	4	SX@PSTNLM	"V(PSTNLM)" NJEDEF postscan
1508	(5E4)	ADDRESS	4	SX@PSTNJEC	"V(PSTNJEC)" NJEDEF CONNECT postscan
1512	(5E8)	ADDRESS	4	SX@PRENNUM	"V(PRENNUM)" NJEDEF NODENUM prescan



Table 258. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1516	(5EC)	ADDRESS	4	SX@PRENODE	"V(PRENODE)" NODE prescan
1520	(5F0)	ADDRESS	4	SX@PSTNODE	"V(PSTNODE)" NODE postscan
1524	(5F4)	ADDRESS	4	SX@PRENACT	"V(PRENACT)" NODE NAME= prescan
1528	(5F8)	ADDRESS	4	SX@PRENDPAS	"V(PRENDPAS)" NODE PASSWORD= prescan
1532	(5FC)	ADDRESS	4	SX@PREDSPWD	"V(PREDSPWD)" NODE PASSWORD=SEND= prescan
1536	(600)	ADDRESS	4	SX@PRENODES	"V(PRENODES)" NODE STATUS= prescan
1540	(604)	ADDRESS	4	SX@PRENDSTK	"V(PRENDSTK)" NODE CONNECT time prescan
1544	(608)	ADDRESS	4	SX@PSTNVFY	"V(PSTNVFY)" NODE VFYPATH postscan
1548	(60C)	ADDRESS	4	SX@PSTNCHG	"V(PSTNCHG)" NODE ckpt'ed parm prescan
1552	(610)	ADDRESS	4	SX@PREPVIA	"V(PREPVIA)" PATH prescan
1556	(614)	ADDRESS	4	SX@PREPPATH	"V(PREPPATH)" PATH prescan
1560	(618)	ADDRESS	4	SX@PREPSTAT	"V(PREPSTAT)" PATH STATUS= prescan
1564	(61C)	ADDRESS	4	SX@PSTSOCK	"V(PSTSOCK)" SOCKET postscan
1568	(620)	ADDRESS	4	SX@PRESKSTK	"V(PRESKSTK)" SOCKET CONNECT time prescan
1572	(624)	ADDRESS	4	SX@PREDPSPWD	"V(PREDPSPWD)" General PASSWORD= prescan
1576	(628)	ADDRESS	4	SX@PREIPAD	"V(PREIPAD)" General prescan to convert 32-bit IP addresses
1580	(62C)	ADDRESS	4	SX@PREFPATH	"V(PREFPATH)" General prescan to force full path analysis
1584	(630)	ADDRESS	4	SX@PRESHOST	"V(PRESHOST)" SOCKET HOST= prescanuse
1588	(634)	ADDRESS	4	SX@PRESOKID	"V(PRESOKID)" SOCKET SOCKID= prescan
1592	(638)	ADDRESS	4	SX@PSTSOKST	"V(PSTSOKST)" SOCKET STATUS= postscan
1596	(63C)	ADDRESS	4	SX@PRESOCK	"V(PRESOCK)" SOCKET prescan
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
1616	(650)	ADDRESS	4		Reserved for future use
1620	(654)	ADDRESS	4		Reserved for future use
1624	(658)	ADDRESS	4		Reserved for future use
1628	(65C)	ADDRESS	4		Reserved for future use
Module HASPSXOT exit routines					
1632	(660)	ADDRESS	4	SX@PREJOE	"V(PREJOE)" OUTPUT prescan
1636	(664)	ADDRESS	4	SX@PREJOAUP	"V(PREJOAUP)" OUTPUT UPDATE JOA prescan
1640	(668)	ADDRESS	4	SX@CLNUPJOE	"V(CLNUPJOE)" OUTPUT cleanup routine
1644	(66C)	ADDRESS	4	SX@PSTJODSP	"V(PSTJODSP)" OUTPUT postscan
1648	(670)	ADDRESS	4	SX@PREJOBSY	"V(PREJOBSY)" OUTPUT BUSY= prescan
1652	(674)	ADDRESS	4	SX@PREFOCLS	"V(PREFOCLS)" OUTPUT CLASS prescan
1656	(678)	ADDRESS	4	SX@PREHLDR	"V(PREHLDR)" OUTPUT HOLDRC= prescan
1660	(67C)	ADDRESS	4	SX@PREOTGRP	"V(PREOTGRP)" OUTPUT OUTGRP= prescan
1664	(680)	ADDRESS	4	SX@PREFOUTG	"V(PREFOUTG)" OUTPUT OUTGRP= prescan



Table 258. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1668	(684)	ADDRESS	4	SX@PREODRDY	"V(PREODRDY)" OUTPUT READY/HELD prescan
1672	(688)	ADDRESS	4	SX@PREJRCPG	"V(PREJRCPG)" OUTPUT RECORDS/PAGES prescan
1676	(68C)	ADDRESS	4	SX@PREJDEST	"V(PREJDEST)" OUTPUT ROUTECDE= prescan
1680	(690)	ADDRESS	4	SX@PREJOERC	"V(PREJOERC)" OUTPUT ROUTECDE= prescan
1684	(694)	ADDRESS	4	SX@PREJOFRC	"V(PREJOFRC)" OUTPUT ROUTECDE= prescan
1688	(698)	ADDRESS	4	SX@PREJOSTA	"V(PREJOSTA)" OUTPUT STATUS= prescan
1692	(69C)	ADDRESS	4	SX@PREJCKJO	"V(PREJCKJO)" OUTPUT keyword= prescan for char-JOE fields
1696	(6A0)	ADDRESS	4	SX@PREOJQX	"V(PREOJQX)" OUTPUT keyword= prescan for JQX fields
1700	(6A4)	ADDRESS	4	SX@PREJDMND	"V(PREJDMND)" OUTPUT keyword= prescan for demand select
1704	(6A8)	ADDRESS	4	SX@PREJQOFS	"V(PREJQOFS)" JOB OFFS= prescan
1708	(6AC)	ADDRESS	4	SX@PREJ0OFS	"V(PREJ0OFS)" OUTPUT OFFS= prescan
1712	(6B0)	ADDRESS	4	SX@PREJOFFS	"V(PREJOFFS)" JOB/OUTPUT OFFS= prescan
1716	(6B4)	ADDRESS	4	SX@PREFOFFS	"V(PREFOFFS)" JOB/OUTPUT OFFS= prescan
1720	(6B8)	ADDRESS	4	SX@PSTS0FFS	"V(PSTS0FFS)" JOB/OUTPUT OFFS= postscan
1724	(6BC)	ADDRESS	4	SX@PRE4STAR	"V(PRE4STAR)" OUTPUT keyword= prescan for '****' value
1728	(6C0)	ADDRESS	4	SX@PSTSTMOD	"V(PSTSTMOD)" OUTPUT keyword= postscan JOEFLAGT bits (TMOD)
1732	(6C4)	ADDRESS	4	SX@PRELORDY	"V(PRELORDY)" \$LJ READY/HELD prescan
1736	(6C8)	ADDRESS	4	SX@PRELOTOT	"V(PRELOTOT)" \$LJ OUTGRPS prescan
1740	(6CC)	ADDRESS	4	SX@PRELOLP	"V(PRELOLP)" \$LJ RECORDS/PAGES prescan
1744	(6D0)	ADDRESS	4	SX@PREJLOCK	"V(PREJLOCK)" OUTPUT prescan for job lock
1748	(6D4)	ADDRESS	4	SX@PRENDEL	"V(PRENDEL)" Skip display on delete call
1752	(6D8)	ADDRESS	4		Reserved for future use
1756	(6DC)	ADDRESS	4		Reserved for future use
1760	(6E0)	ADDRESS	4		Reserved for future use
1764	(6E4)	ADDRESS	4		Reserved for future use
1768	(6E8)	ADDRESS	4		Reserved for future use
1772	(6EC)	ADDRESS	4		Reserved for future use
1776	(6F0)	ADDRESS	4		Reserved for future use
1780	(6F4)	ADDRESS	4		Reserved for future use
1784	(6F8)	ADDRESS	4		Reserved for future use
1788	(6FC)	ADDRESS	4		Reserved for future use
Module HASPSXJB exit routines					
1792	(700)	ADDRESS	4	SX@PREDJB	"V(PREDJB)" \$D DUPJOB command prescan
1796	(704)	ADDRESS	4	SX@PSTDJB	"V(PSTDJB)" \$D DUPJOB command postscan



Table 258. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1800	(708)	ADDRESS	4	SX@CLNUPDJB	"V(CLNUPDJB)" \$D DUPJOB command cleanup
1804	(70C)	ADDRESS	4	SX@PREMZJOB	"V(PREMZJOB)" GROUP command prescan
1808	(710)	ADDRESS	4	SX@PREMZOD	"V(PREMZOD)" GROUP command prescan
1812	(714)	ADDRESS	4	SX@PREMZDSK	"V(PREMZDSK)" GROUP command job list pre
1816	(718)	ADDRESS	4	SX@PREMZODL	"V(PREMZODL)" GROUP command job list pre
1820	(71C)	ADDRESS	4	SX@PREWHEN	"V(PREWHEN)" WHEN keyword prescan
1824	(720)	ADDRESS	4	SX@PREZODCK	"V(PREZODCK)" GROUP keyword prescan
1828	(724)	ADDRESS	4	SX@PREDEPL	"V(PREDEPL)" JOB AFTER/BEFORE prescan
1832	(728)	ADDRESS	4	SX@PSTMZOD	"V(PSTMZOD)" GROUP command postscan
1836	(72C)	ADDRESS	4	SX@PREJCOR	"V(PREJCOR)" JOB JOBCORR= prescan
1840	(730)	ADDRESS	4	SX@PSTJCOR	"V(PSTJCOR)" JOB JOBCORR= postscan
1844	(734)	ADDRESS	4	SX@PREJQE	"V(PREJQE)" JOB prescan
1848	(738)	ADDRESS	4	SX@PREJST	"V(PREJST)" JOB prescan
1852	(73C)	ADDRESS	4	SX@PSTCFVQE	"V(PSTCFVQE)" JOB postscan
1856	(740)	ADDRESS	4	SX@PREJBDUP	"V(PREJBDUP)" JOB prescan
1860	(744)	ADDRESS	4	SX@PREJQRDS	"V(PREJQRDS)" JOB prescan
1864	(748)	ADDRESS	4	SX@PSTJQDSP	"V(PSTJQDSP)" JOB postscan
1868	(74C)	ADDRESS	4	SX@PREJQAUP	"V(PREJQAUP)" JOB update mode JQA prescan
1872	(750)	ADDRESS	4	SX@PREJQBSY	"V(PREJQBSY)" JOB BUSY= prescan
1876	(754)	ADDRESS	4	SX@PREJABS	"V(PREJABS)" JOB CC=ABEND prescan
1880	(758)	ADDRESS	4	SX@PREJABU	"V(PREJABU)" JOB CC=ABEND prescan
1884	(75C)	ADDRESS	4	SX@PSTJSCLS	"V(PSTJSCLS)" JOB CLASS= postscan
1888	(760)	ADDRESS	4	SX@PREJCLAS	"V(PREJCLAS)" JOB CLASS= prescan
1892	(764)	ADDRESS	4	SX@PREDRNE	"V(PREDRNE)" JOB CMDAUTH= prescan
1896	(768)	ADDRESS	4	SX@PREDELAY	"V(PREDELAY)" JOB DELAY prescan
1900	(76C)	ADDRESS	4	SX@PREJINIT	"V(PREJINIT)" JOB INITASID= prescan
1904	(770)	ADDRESS	4	SX@PREJQPRI	"V(PREJQPRI)" JOB PRIORITY= prescan
1908	(774)	ADDRESS	4	SX@PREJPRIF	"V(PREJPRIF)" JOB PRIORITY= prescan
1912	(778)	ADDRESS	4	SX@PSTJQPRI	"V(PSTJQPRI)" JOB PRIORITY= postscan
1916	(77C)	ADDRESS	4	SX@PSTPJQUE	"V(PSTPJQUE)" JOB Q= postscan routine
1920	(780)	ADDRESS	4	SX@PSTJEXFL	"V(PSTJEXFL)" JOB prescan for DUMP, PURGE, ARMRESTART, PROTECTED, etc.
1924	(784)	ADDRESS	4	SX@PREJQEXQ	"V(PREJQEXQ)" JOB prescan for busy in XEQ
1928	(788)	ADDRESS	4	SX@PREJQEPH	"V(PREJQEPH)" JOB prescan Queued pre HOPE
1932	(78C)	ADDRESS	4	SX@PRESBYS	"V(PRESBYS)" JOB SECLABEL_AFF prescan
1936	(790)	ADDRESS	4	SX@PREJTGPF	"V(PREJTGPF)" JOB SPOOL=PERCENT= prescan
1940	(794)	ADDRESS	4	SX@PREFTGPF	"V(PREFTGPF)" JOB SPOOL=PERCENT= prescan
1944	(798)	ADDRESS	4	SX@PREJTGN	"V(PREJTGN)" JOB SPOOL=TGS= prescan
1948	(79C)	ADDRESS	4	SX@PREDJVOL	"V(PREDJVOL)" JOB SPOOL=VOLUMES= prescan
1952	(7A0)	ADDRESS	4	SX@PREFJVOL	"V(PREFJVOL)" JOB SPOOL=VOLUMES= prescan



Table 258. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
1956	(7A4)	ADDRESS	4	SX@PREJDSC	"V(PREJDSC)" JOB SRVCLASS= prescan \$D
1960	(7A8)	ADDRESS	4	SX@PSTJSRVC	"V(PSTJSRVC)" JOB SRVCLASS= postscan \$T
1964	(7AC)	ADDRESS	4	SX@PREJSTAT	"V(PREJSTAT)" JOB STATUS= prescan
1968	(7B0)	ADDRESS	4	SX@PREDJSAF	"V(PREDJSAF)" JOB SYSAFF prescan
1972	(7B4)	ADDRESS	4	SX@PREFJSAF	"V(PREFJSAF)" JOB SYSAFF prescan
1976	(7B8)	ADDRESS	4	SX@PRENHOLD	"V(PRENHOLD)" JOB NHOLD= prescan
1980	(7BC)	ADDRESS	4	SX@PSTNHOLD	"V(PSTNHOLD)" JOB NHOLD= postscan
1984	(7C0)	ADDRESS	4	SX@PRESJSAF	"V(PRESJSAF)" JOB SYSAFF prescan
1988	(7C4)	ADDRESS	4	SX@PSTSJSAF	"V(PSTSJSAF)" JOB SYSAFF postscan
1992	(7C8)	ADDRESS	4	SX@CLNUPJQE	"V(CLNUPJQE)" JOB JQE cleanup routine
1996	(7CC)	ADDRESS	4	SX@PSTJSCHE	"V(PSTJSCHE)" JOB SCHENV= postscan
2000	(7D0)	ADDRESS	4	SX@PSTJQASC	"V(PSTJQASC)" JOB SCHENV= postscan
2004	(7D4)	ADDRESS	4	SX@PREJHOLD	"V(PREJHOLD)" JOB Hold prescan
2008	(7D8)	ADDRESS	4	SX@PREHUSTB	"V(PREHUSTB)" JOB HOLDUNT/STARTBY prescn
2012	(7DC)	ADDRESS	4	SX@PRECATAF	"V(PRECATAF)" JOBCCLASS QAFF= prescan
2016	(7E0)	ADDRESS	4	SX@PRECATA2	"V(PRECATA2)" JOBCCLASS QAFF= prescan
2020	(7E4)	ADDRESS	4	SX@PRECAPAF	"V(PRECAPAF)" JOBCCLASS QAFF= prescan
2024	(7E8)	ADDRESS	4	SX@PSTWSC	"V(PSTWSC)" SRVCLASS postscan
2028	(7EC)	ADDRESS	4	SX@PREWSCA2	"V(PREWSCA2)" SRVCLASS QAFF= prescan
2032	(7F0)	ADDRESS	4	SX@PREWSCAF	"V(PREWSCAF)" SRVCLASS QAFF= prescan
2036	(7F4)	ADDRESS	4	SX@PSTWQAFF	"V(PSTWQAFF)" SRVCLASS pstscan for QAFF
2040	(7F8)	ADDRESS	4	SX@PSTWTYPE	"V(PSTWTYPE)" SRVCLASS TYPE= postscan
2044	(7FC)	ADDRESS	4	SX@PREWSCCO	"V(PREWSCCO)" SRVCLASS COUNT= prescan
2048	(800)	ADDRESS	4	SX@PREWSCCT	"V(PREWSCCT)" SRVCLASS COUNT= prescan
2052	(804)	ADDRESS	4	SX@PREWSCMC	"V(PREWSCMC)" SRVCLASS MASCOUNT= prescan
2056	(808)	ADDRESS	4	SX@CLNUPWSC	"V(CLNUPWSC)" SRVCLASS cleanup routine
2060	(80C)	ADDRESS	4	SX@PRESRPAF	"V(PRESRPAF)" SRVCLASS ACTIVE= prescan
2064	(810)	ADDRESS	4	SX@PREQCHNG	"V(PREQCHNG)" AGE, HOURS, DAYS, SECONDS prescan
2068	(814)	ADDRESS	4	SX@PREX HOUR	"V(PREX HOUR)" Hours of job execution
2072	(818)	ADDRESS	4		Reserved for future use
2076	(81C)	ADDRESS	4		Reserved for future use
2080	(820)	ADDRESS	4		Reserved for future use
2084	(824)	ADDRESS	4		Reserved for future use
2088	(828)	ADDRESS	4		Reserved for future use
2092	(82C)	ADDRESS	4		Reserved for future use
2096	(830)	ADDRESS	4		Reserved for future use
2100	(834)	ADDRESS	4		Reserved for future use
Module HASPSXCK exit routines					
2104	(838)	ADDRESS	4	SX@PREACTSZ	"V(PREACTSZ)" \$D ACTIVATE prescan
2108	(83C)	ADDRESS	4	SX@PSTACTIV	"V(PSTACTIV)" ACTIVATE postscan



Table 258. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2112	(840)	ADDRESS	4	SX@PRECKPT	"V(PRECKPT)" CKPTDEF prescan
2116	(844)	ADDRESS	4	SX@PSTCKPT	"V(PSTCKPT)" CKPTDEF postscan
2120	(848)	ADDRESS	4	SX@PRECKSP	"V(PRECKSP)" CKPTDEF CKPTn=SPACE= prescn
2124	(84C)	ADDRESS	4	SX@PSTCKSPX	"V(PSTCKSPX)" CKPTDEF CKPTn=SPACE= postsc
2128	(850)	ADDRESS	4	SX@PRECKPTN	"V(PRECKPTN)" CKPTDEF CKPTn/NEWCKPTn prescan
2132	(854)	ADDRESS	4	SX@PSTCKPTN	"V(PSTCKPTN)" CKPTDEF CKPTn/NEWCKPTn postscan
2136	(858)	ADDRESS	4	SX@PSTDSN	"V(PSTDSN)" CKPTDEF CKPT1/NEWCKPT1 DSNAME= postscan
2140	(85C)	ADDRESS	4	SX@PSTCKVOL	"V(PSTCKVOL)" CKPTDEF CKPT1/NEWCKPT1 VOLUME= postscan
2144	(860)	ADDRESS	4	SX@PSTCF	"V(PSTCF)" CKPTDEF CKPT1/NEWCKPT1 STRNAME= postscan
2148	(864)	ADDRESS	4	SX@PREVOLT	"V(PREVOLT)" CKPTDEF CKPTn=VOLATILE= prescan
2152	(868)	ADDRESS	4	SX@PSTCKMOD	"V(PSTCKMOD)" CKPTDEF MODE= postscan
2156	(86C)	ADDRESS	4	SX@PSTCKVRS	"V(PSTCKVRS)" CKPTDEF VERSIONS=NUMBER= postscan
2160	(870)	ADDRESS	4	SX@PSTCKLCK	"V(PSTCKLCK)" \$E CKPTLOCK postscan
2164	(874)	ADDRESS	4	SX@PSTCKPSP	"V(PSTCKPSP)" CKPTSPACE postscan for \$T
2168	(878)	ADDRESS	4	SX@PREBRNUM	"V(PREBRNUM)" CKPTSPACE BERTNUM= prescan
2172	(87C)	ADDRESS	4	SX@PREBRTBN	"V(PREBRTBN)" CKPTSPACE BERTIES-skip blnk
2176	(880)	ADDRESS	4	SX@PREBRTC�	"V(PREBRTC�)" CKPTSPACE BERTIES-CB name
2180	(884)	ADDRESS	4	SX@PREBRTIC	"V(PREBRTIC)" CKPTSPACE BERTIES prescan
2184	(888)	ADDRESS	4	SX@PREBRTUS	"V(PREBRTUS)" CKPTSPACE BERTUSE prescan
2188	(88C)	ADDRESS	4	SX@PREDSPCD	"V(PREDSPCD)" CKPTSPACE CDIFREE= prescan CKPTSPACE CDTSIZE= prescan CKPTSPACE CDTFREE= prescan
2192	(890)	ADDRESS	4	SX@PSTCDNUM	"V(PSTCDNUM)" CKPTSPACE CDINUM= postscan
2196	(894)	ADDRESS	4	SX@PSTCDRES	"V(PSTCDRES)" CKPTSPACE CDIRESET postscan
2200	(898)	ADDRESS	4	SX@PREDSRGD	"V(PREDSRGD)" CKPTSPACE RGD= prescan
2204	(89C)	ADDRESS	4	SX@PSTRGNUM	"V(PSTRGNUM)" CKPTSPACE RGDNUM= postscan
2208	(8A0)	ADDRESS	4	SX@PSTRGRES	"V(PSTRGRES)" CKPTSPACE RGDRESET postscan
2212	(8A4)	ADDRESS	4	SX@PRECKLEV	"V(PRECKLEV)" General prescan to check for dynamic CKPT level
2216	(8A8)	ADDRESS	4	SX@PSTDADEF	"V(PSTDADEF)" DATADEF postscan
2220	(8AC)	ADDRESS	4	SX@PREDXNUM	"V(PREDXNUM)" DATADEF INDEX=LIMIT=
2224	(8B0)	ADDRESS	4	SX@PSTGRPDF	"V(PSTGRPDF)" GRPDEF postscan for \$T
2228	(8B4)	ADDRESS	4	SX@PSTJGNUM	"V(PSTJGNUM)" GRPDEF GRPNUM= postscan
2232	(8B8)	ADDRESS	4	SX@PREZJCUS	"V(PREZJCUS)" GRPDEF ZJCUSE prescan
2236	(8BC)	ADDRESS	4	SX@PSTDUPLC	"V(PSTDUPLC)" JOBCCLASS DUPL_JOB= postscan



Table 258. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2240	(8C0)	ADDRESS	4	SX@PSTJOBDF	"V(PSTJOBDF)" JOBDEF postscan for \$T
2244	(8C4)	ADDRESS	4	SX@PSTJBJNC	"V(PSTJBJNC)" JOBDEF postscan for \$T of BAD_JOBNAME_CHAR
2248	(8C8)	ADDRESS	4	SX@PSTDEFCL	"V(PSTDEFCL)" JOBDEF DEF_CLASS= postscan
2252	(8CC)	ADDRESS	4	SX@PSTDUPL	"V(PSTDUPL)" JOBDEF DUPL_JOB= postscan
2256	(8D0)	ADDRESS	4	SX@PSTJBNUM	"V(PSTJBNUM)" JOBDEF JOBNUM= postscan
2260	(8D4)	ADDRESS	4	SX@PREJRBLD	"V(PREJRBLD)" JOBDEF JOBRBLDQ=/OUTDEF JOERBLDQ= prescan
2264	(8D8)	ADDRESS	4	SX@PRENFYS	"V(PRENFYS)" JOBDEF NFY_SUBJECT prescan
2268	(8DC)	ADDRESS	4	SX@PSTNFYS	"V(PSTNFYS)" JOBDEF NFY_SUBJECT postscan
2272	(8E0)	ADDRESS	4	SX@PSTPRTY	"V(PSTPRTY)" JOBDEF PRTYRATE= postscan
2276	(8E4)	ADDRESS	4	SX@PSTJRNG	"V(PSTJRNG)" JOBDEF RANGE postscan
2280	(8E8)	ADDRESS	4	SX@PSTEVTLS	"V(PSTEVTLS)" JOBDEF SUP_EVENTLOG_SMF pst
2284	(8EC)	ADDRESS	4	SX@PSTOUTDF	"V(PSTOUTDF)" OUTDEF postscan for \$T
2288	(8F0)	ADDRESS	4	SX@PSTLDSR	"V(PSTLDSR)" OUTDEF DSLIMIT= postscan
2292	(8F4)	ADDRESS	4	SX@PSTJONUM	"V(PSTJONUM)" OUTDEF JOENUM= postscan
2296	(8F8)	ADDRESS	4	SX@PREJOEUS	"V(PREJOEUS)" OUTDEF JOEUSE prescan
2300	(8FC)	ADDRESS	4	SX@PSTOUTDO	"V(PSTOUTDO)" OUTDEF LDEV_OPT= postscan
2304	(900)	ADDRESS	4	SX@PSTPRYO	"V(PSTPRYO)" OUTDEF PRYORATE= postscan
2308	(904)	ADDRESS	4	SX@PSTROPT	"V(PSTROPT)" OUTDEF PRTYOUT= postscan
2312	(908)	ADDRESS	4	SX@PSTOUTSO	"V(PSTOUTSO)" OUTDEF SAPI_OPT= postscan
2316	(90C)	ADDRESS	4	SX@PSTSEGLM	"V(PSTSEGLM)" OUTDEF SEGLIM= postscan
2320	(910)	ADDRESS	4	SX@PREOUTJX	"V(PREOUTJX)" OUTDEF WS_OPT= prescan
2324	(914)	ADDRESS	4	SX@PSTOUTJX	"V(PSTOUTJX)" OUTDEF WS_OPT= postscan
2328	(918)	ADDRESS	4	SX@PREQSUSE	"V(PREQSUSE)" General prescan to do \$QSUSE
2332	(91C)	ADDRESS	4	SX@PREQNOI	"V(PREQNOI)" and one for no I/O active
2336	(920)	ADDRESS	4	SX@PSTSPLDF	"V(PSTSPLDF)" SPOOLDEF postscan for \$T
2340	(924)	ADDRESS	4	SX@PSTFEN	"V(PSTFEN)" SPOOLDEF postscan for \$T
2344	(928)	ADDRESS	4	SX@PREENCRS	"V(PREENCRS)" SPOOLDEF ADVANCED_FORMAT= prescan
2348	(92C)	ADDRESS	4	SX@PSTENCRS	"V(PSTENCRS)" SPOOLDEF ADVANCED_FORMAT= postscan
2352	(930)	ADDRESS	4	SX@PSTFENO	"V(PSTFENO)" SPOOLDEF FENCE=YES postscan
2356	(934)	ADDRESS	4	SX@PRESDPCT	"V(PRESDPCT)" SPOOLDEF PERCENT= prescan
2360	(938)	ADDRESS	4	SX@PRESNIFF	"V(PRESNIFF)" SPOOLDEF SNIFF prescan
2364	(93C)	ADDRESS	4	SX@PSTSNIFF	"V(PSTSNIFF)" SPOOLDEF SNIFF pstscan
2368	(940)	ADDRESS	4	SX@PSTSPL	"V(PSTSPL)" SPOOLDEF SPOOLNUM= postscan



Table 258. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2372	(944)	ADDRESS	4	SX@PRESDFRE	"V(PRESDFRE)" SPOOLDEF TGSPACE=FREE pre
2376	(948)	ADDRESS	4	SX@PSTSPDVL	"V(PSTSPDVL)" SPOOLDEF VOLUME= postscan
2380	(94C)	ADDRESS	4	SX@PSTVERFY	"V(PSTVERFY)" VERIFY postscan
2384	(950)	ADDRESS	4		Reserved for future use
2388	(954)	ADDRESS	4		Reserved for future use
2392	(958)	ADDRESS	4		Reserved for future use
2396	(95C)	ADDRESS	4		Reserved for future use
2400	(960)	ADDRESS	4		Reserved for future use
2404	(964)	ADDRESS	4		Reserved for future use
Module HASPCSV exit routines					
2408	(968)	ADDRESS	4	SX@PRELOAD	"V(PRELOAD)" LOADMOD prescan
2412	(96C)	ADDRESS	4	SX@PSTLOAD	"V(PSTLOAD)" LOADMOD postscan
2416	(970)	ADDRESS	4	SX@PREDMOD	"V(PREDMOD)" MODULE prescan
2420	(974)	ADDRESS	4	SX@PREDMODX	"V(PREDMODX)" MODULE EXITPTS= prescan
2424	(978)	ADDRESS	4	SX@PRELOADR	"V(PRELOADR)" MODULE/LOADMOD ROUTINES= prescan
2428	(97C)	ADDRESS	4	SX@PRELOADT	"V(PRELOADT)" MODULE/LOADMOD TABLES= prescan
2432	(980)	ADDRESS	4	SX@PRELOADF	"V(PRELOADF)" MODULE ROUTINES= prescan
2436	(984)	ADDRESS	4	SX@PREPTF	"V(PREPTF)" MODULE LASTPTF= prescan
2440	(988)	ADDRESS	4		Reserved for future use
2444	(98C)	ADDRESS	4		Reserved for future use
2448	(990)	ADDRESS	4		Reserved for future use
2452	(994)	ADDRESS	4		Reserved for future use
2456	(998)	ADDRESS	4		Reserved for future use
2460	(99C)	ADDRESS	4		Reserved for future use
2464	(9A0)	ADDRESS	4		Reserved for future use
2468	(9A4)	ADDRESS	4		Reserved for future use
2472	(9A8)	ADDRESS	4		Reserved for future use
2476	(9AC)	ADDRESS	4		Reserved for future use
Module HASPMMSG exit routines					
2480	(9B0)	ADDRESS	4	SX@PRE496KY	"V(PRE496KY)" \$HASP496 KEYWORD prescan
2484	(9B4)	ADDRESS	4	SX@PRE536	"V(PRE536)" \$HASP536 prescan
2488	(9B8)	ADDRESS	4	SX@PRE542	"V(PRE542)" \$HASP542 prescan
2492	(9BC)	ADDRESS	4	SX@PREACTM	"V(PREACTM)" General active member list display prescan
2496	(9C0)	ADDRESS	4	SX@PREMCKPT	"V(PREMCKPT)" General routine to format checkpoint data set or structure name
2500	(9C4)	ADDRESS	4	SX@MSG607TX	"V(MSG607TX)" \$HASP607 prescan
2504	(9C8)	ADDRESS	4		Reserved for future use
2508	(9CC)	ADDRESS	4		Reserved for future use
2512	(9D0)	ADDRESS	4		Reserved for future use



Table 258. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2516	(9D4)	ADDRESS	4		Reserved for future use
2520	(9D8)	ADDRESS	4		Reserved for future use
2524	(9DC)	ADDRESS	4		Reserved for future use
2528	(9E0)	ADDRESS	4		Reserved for future use
2532	(9E4)	ADDRESS	4		Reserved for future use
2536	(9E8)	ADDRESS	4		Reserved for future use
Module HASPPCY exit routines					
2540	(9EC)	ADDRESS	4	SX@PREJPERR	"V(PREJPERR)" \$HASP1630 prescan
2544	(9F0)	ADDRESS	4		Reserved for future use
2548	(9F4)	ADDRESS	4		Reserved for future use
2552	(9F8)	ADDRESS	4		Reserved for future use
2556	(9FC)	ADDRESS	4		Reserved for future use
2560	(A00)	ADDRESS	4		Reserved for future use
2564	(A04)	ADDRESS	4		Reserved for future use
2568	(A08)	ADDRESS	4		Reserved for future use
2572	(A0C)	ADDRESS	4		Reserved for future use
2576	(A10)	ADDRESS	4		Reserved for future use
2580	(A14)	ADDRESS	4		Reserved for future use
2580	(A14)	X'A18'	0	SXADDRLN	"*-SXADDR" Length of the SXADDR table

Table 259. Cross Reference for \$SXADDR

Name	Offset	Hex Tag
SX@CLNPCY	244	
SX@CLNUPDJB	708	
SX@CLNUPJOE	668	
SX@CLNUPJQE	7C8	
SX@CLNUPPAD	40C	
SX@CLNUPPRW	A4	
SX@CLNUPWSC	808	
SX@CVLDRAIN	288	
SX@MSG607TX	9C4	
SX@PFSQFREE	458	
SX@PFSQUERY	454	
SX@POSTNRM	5C4	
SX@PREABSTR	2C4	
SX@PREACMEM	384	
SX@PREACTAS	D8	
SX@PREACTM	9BC	
SX@PREACTSZ	838	
SX@PREANETW	DC	
SX@PREAPCE	D4	



Table 259. Cross Reference for \$SXADDR (continued)

Name	Offset	Hex Tag
SX@PREAPNOD	594	
SX@PREAPPL	580	
SX@PREAPSTK	588	
SX@PREATTR	29C	
SX@PREAUTH	140	
SX@PREBRNUM	878	
SX@PREBRTBN	87C	
SX@PREBRTC�	880	
SX@PREBRTIC	884	
SX@PREBRTUS	888	
SX@PREBUFC	1C	
SX@PREBUFH	14	
SX@PRECAPAF	7E4	
SX@PRECAT	310	
SX@PRECATAF	7DC	
SX@PRECATA2	7E0	
SX@PRECATI	314	
SX@PRECATLM	17C	
SX@PRECATRS	178	
SX@PRECATTS	318	
SX@PRECKLEV	8A4	
SX@PRECKPT	840	
SX@PRECKPTN	850	
SX@PRECKPTT	1B4	
SX@PRECKSP	848	
SX@PRECLGCT	30	
SX@PRECLSGP	28	
SX@PRECMDR	258	
SX@PRECMEMB	5A4	
SX@PRECNODE	5A8	
SX@PRECONCT	598	
SX@PREDAUTH	13C	
SX@PREDBADT	8	
SX@PREDCCHAR	3C	
SX@PREDCOMP	34	
SX@PREDCRST	5B8	
SX@PREDDVJB	504	
SX@PREDDVRC	508	
SX@PREDELAY	768	



Table 259. Cross Reference for \$SXADDR (continued)

Name	Offset	Hex Tag
SX@PREDEMEM	1B0	
SX@PREDEPL	724	
SX@PREDESI	60	
SX@PREDEST	5C	
SX@PREDEVDR	468	
SX@PREDEVID	360	
SX@PREDEVNM	F8	
SX@PREDFLNO	424	
SX@PREDFSS	43C	
SX@PREDIL	FC	
SX@PRE DJB	700	
SX@PRE DJSAF	7B0	
SX@PRE DJVOL	79C	
SX@PREDMOD	970	
SX@PREDMODX	974	
SX@PRE DNEGZ	308	
SX@PRE DNET	5D0	
SX@PRE DNOCB	30C	
SX@PRE DNPM	5B4	
SX@PRE DPRMD	4DC	
SX@PRE DPSWD	624	
SX@PRE DPZPT	4A8	
SX@PRE DQST	198	
SX@PRE DRC	4F8	
SX@PRE DRGI	25C	
SX@PRE DRNE	764	
SX@PRE DRNG	4EC	
SX@PRE DRRRC	538	
SX@PRE DRSAF	50C	
SX@PRE DRSDV	2C0	
SX@PRE DSAF	3F4	
SX@PRE DSAFL	324	
SX@PRE DSBEX	88	
SX@PRE DSESN	5C0	
SX@PRE DSID	1A4	
SX@PRE DSLCT	490	
SX@PRE DSPCD	88C	
SX@PRE DSPWD	5FC	
SX@PRE DSRGD	898	



Table 259. Cross Reference for \$SXADDR (continued)

Name	Offset	Hex Tag
SX@PREDSSAF	28C	
SX@PREDSSI	2C8	
SX@PREDSTAT	500	
SX@PREDSTS	2A0	
SX@PREDUSEC	280	
SX@PREDUSEP	284	
SX@PREVDVRN	530	
SX@PREDVSTK	4F0	
SX@PREDWS	524	
SX@PREDXNUM	8AC	
SX@PREEDST	68	
SX@PREENCRS	928	
SX@PREENMSG	134	
SX@PREEOMCT	EC	
SX@PREESQ	70	
SX@PREESQST	74	
SX@PREEVDUR	1F4	
SX@PREEXIT	7C	
SX@PREEXRTN	84	
SX@PREFFCHK	358	
SX@PREFJSAF	7B4	
SX@PREFJVOL	7A0	
SX@PREFLHOT	35C	
SX@PREFMAVG	368	
SX@PREFNODE	5AC	
SX@PREFNPM	5B0	
SX@PREFOCLS	674	
SX@PREFOFFS	6B4	
SX@PREFOUTG	680	
SX@PREFPATH	62C	
SX@PREFPRMD	4E0	
SX@PREFRC	4FC	
SX@PREFRRC	53C	
SX@PREFSPAF	294	
SX@PREFSSDF	90	
SX@PREFTGP	794	
SX@PREHLDRD	678	
SX@PREHOTS	304	
SX@PREHPCE	E0	



Table 259. Cross Reference for \$SXADDR (continued)

Name	Offset	Hex Tag
SX@PREHUSTB	7D8	
SX@PREINCL	98	
SX@PREINECL	C0	
SX@PREINIT	A8	
SX@PREIPAD	628	
SX@PREIREA	E4	
SX@PREISPOL	278	
SX@PREISPSF	290	
SX@PREISTC	328	
SX@PREJABS	754	
SX@PREJABU	758	
SX@PREJBDUP	740	
SX@PREJCKJO	69C	
SX@PREJCLAS	760	
SX@PREJCLMD	340	
SX@PREJCOR	72C	
SX@PREJDEST	68C	
SX@PREJDMND	6A4	
SX@PREJDSC	7A4	
SX@PREJESLD	174	
SX@PREJESLS	170	
SX@PREJHOLD	7D4	
SX@PREJINIT	76C	
SX@PREJLOCK	6D0	
SX@PREJOAUP	664	
SX@PREJOBSY	670	
SX@PREJOE	660	
SX@PREJOERC	690	
SX@PREJOEUS	8F8	
SX@PREJOFFS	6B0	
SX@PREJOFRC	694	
SX@PREJO0FS	6AC	
SX@PREJOSTA	698	
SX@PREJPERR	9EC	
SX@PREJPRIF	774	
SX@PREJQAUP	74C	
SX@PREJQBSY	750	
SX@PREJQE	734	
SX@PREJQEPH	788	



Table 259. Cross Reference for \$SXADDR (continued)

Name	Offset	Hex Tag
SX@PREJQEXQ	784	
SX@PREJQOFS	6A8	
SX@PREJQPRI	770	
SX@PREJQRDS	744	
SX@PREJRBLD	8D4	
SX@PREJRCPG	688	
SX@PREJST	738	
SX@PREJSTAT	7AC	
SX@PREJTGN	798	
SX@PREJTGP	790	
SX@PRELDED	58C	
SX@PRELDEV	390	
SX@PRELDFLT	3A8	
SX@PRELDNDE	3AC	
SX@PRELDVL	38C	
SX@PRELFNDE	3B0	
SX@PRELIMIT	2FC	
SX@PRELINE	398	
SX@PRELINST	3C4	
SX@PREMLNG	10C	
SX@PRELMMAS	110	
SX@PRELMRAT	114	
SX@PRELMT	108	
SX@PRELNERS	3C0	
SX@PRELNSTK	3A4	
SX@PRELOAD	968	
SX@PRELOADF	980	
SX@PRELOADR	978	
SX@PRELOADT	97C	
SX@PRELOLP	6CC	
SX@PRELORDY	6C4	
SX@PRELOTOT	6C8	
SX@PRELRUSE	118	
SX@PRELSFRM	444	
SX@PRELTCNT	11C	
SX@PRELTENT	120	
SX@PRELTRAT	124	
SX@PREMCKPT	9C0	
SX@PREMDEFD	19C	



Table 259. Cross Reference for \$SXADDR (continued)

Name	Offset	Hex Tag
SX@PREMESYS	180	
SX@PREMIGDA	2B8	
SX@PREMPERC	2BC	
SX@PREMSNM	1B8	
SX@PREMULFM	4CC	
SX@PREMULRC	540	
SX@PREMZDSK	714	
SX@PREMZJOB	70C	
SX@PREMZOD	710	
SX@PREMZODL	718	
SX@PRENACT	5F4	
SX@PRENDDEL	6D4	
SX@PRENDPAS	5F8	
SX@PRENDSTK	604	
SX@PRENFYS	8D8	
SX@PRENHOLD	7B8	
SX@PRENIPRT	45C	
SX@PRENNUM	5E8	
SX@PRENODE	5EC	
SX@PRENODES	600	
SX@PRENULL	2F4	
SX@PRENZRCK	354	
SX@PREODRDY	684	
SX@PREOFFCL	3FC	
SX@PREOGDJC	150	
SX@PREOGDOC	1C8	
SX@PREOGDOS	1C0	
SX@PREOGDSR	3E4	
SX@PREOGDST	3EC	
SX@PREOJQX	6A0	
SX@PREOPACT	46C	
SX@PREOTGRP	67C	
SX@PREOUTJX	910	
SX@PREPCEDJ	1E4	
SX@PREPCEDN	1DC	
SX@PREPCEDT	1D8	
SX@PREPCEFW	1E8	
SX@PREPCETB	1D0	
SX@PREPCEWF	1E0	



Table 259. Cross Reference for \$SXADDR (continued)

Name	Offset	Hex Tag
SX@PREPCY	23C	
SX@PREPDRPT	218	
SX@PREPDSRV	21C	
SX@PREPIDNT	5D4	
SX@PREPIFNL	460	
SX@PREPITCL	B4	
SX@PREPITRS	320	
SX@PREPMODE	448	
SX@PREPPATH	614	
SX@PREPRFCT	234	
SX@PREPRFDT	238	
SX@PREPRFFL	200	
SX@PREPRFNL	1FC	
SX@PREPRFPA	210	
SX@PREPRFPC	1F8	
SX@PREPRFPS	204	
SX@PREPRFQA	214	
SX@PREPRFRS	1EC	
SX@PREPRFSU	1F0	
SX@PREPRFWA	20C	
SX@PREPRFZR	230	
SX@PREPROCL	404	
SX@PREPROJC	154	
SX@PREPRT	41C	
SX@PREPSJB	B0	
SX@PREPSOCT	F0	
SX@PREPSTAT	618	
SX@PREPTF	984	
SX@PREPTVCL	B8	
SX@PREPVIA	610	
SX@PREQCHNG	810	
SX@PREQSNOI	91C	
SX@PREQSUSE	918	
SX@PRERDEST	4E4	
SX@PRERDEV	484	
SX@PRERDSTM	250	
SX@PRERDVAU	488	
SX@PREREGN	15C	
SX@PRERGR	264	



Table 259. Cross Reference for \$SXADDR (continued)

Name	Offset	Hex Tag
SX@PRERGRRS	26C	
SX@PRERHELD	188	
SX@PRERMT	4AC	
SX@PRERMTP	4BC	
SX@PRERMTRC	4A0	
SX@PRERMTSH	4C0	
SX@PRERMTST	4C8	
SX@PRERNG	4E8	
SX@PRERPRPU	544	
SX@PRERPZPT	4A4	
SX@PRESAPCT	F4	
SX@PRESBYS	78C	
SX@PRESDFRE	944	
SX@PRESDPCT	934	
SX@PRESHOST	630	
SX@PRESJSAF	7C0	
SX@PRESKSTK	620	
SX@PRESNIFF	938	
SX@PRESOCK	63C	
SX@PRESOKID	634	
SX@PRESPM	100	
SX@PRESPPOOL	274	
SX@PRESPST	2AC	
SX@PRESRPAF	80C	
SX@PRESVSES	3D4	
SX@PRESZNET	5C8	
SX@PRETDFID	2E8	
SX@PRETPB	2CC	
SX@PRETPS	2D4	
SX@PRETRCDV	534	
SX@PRETRCID	2EC	
SX@PREUNIT	51C	
SX@PREVOLT	864	
SX@PREVTRC	3BC	
SX@PREWAITP	208	
SX@PREWHEN	71C	
SX@PREWSC	220	
SX@PREWSCA	224	
SX@PREWSCAF	7F0	



Table 259. Cross Reference for \$SXADDR (continued)

Name	Offset	Hex Tag
SX@PREWSCA2	7EC	
SX@PREWSCCO	7FC	
SX@PREWSCCT	800	
SX@PREWSCMC	804	
SX@PREXHOURL	814	
SX@PREXMEMB	E8	
SX@PREXWA	1BC	
SX@PREZAPJB	334	
SX@PREZJCUS	8B8	
SX@PREZODCK	720	
SX@PREZPSEQ	364	
SX@PREZRCHK	350	
SX@PRE4STAR	6BC	
SX@PRE496KY	9B0	
SX@PRE536	9B4	
SX@PRE542	9B8	
SX@PRE608	D0	
SX@PRPRESET	464	
SX@PSTACTIV	83C	
SX@PSTADDR	10	
SX@PSTAPPL	584	
SX@PSTBADTR	C	
SX@PSTBUFC	20	
SX@PSTBUFH	18	
SX@PSTCAT	164	
SX@PSTCATAC	138	
SX@PSTCATI	168	
SX@PSTCATNW	16C	
SX@PSTCATSC	32C	
SX@PSTCCM2	194	
SX@PSTCDCT	54C	
SX@PSTCDCTO	550	
SX@PSTCDCTS	554	
SX@PSTCDNUM	890	
SX@PSTCDRES	894	
SX@PSTCF	860	
SX@PSTCFVQE	73C	
SX@PSTCGROP	31C	
SX@PSTCHARS	24	



Table 259. Cross Reference for \$SXADDR (continued)

Name	Offset	Hex Tag
SX@PSTCKLCK	870	
SX@PSTCKMOD	868	
SX@PSTCKPSP	874	
SX@PSTCKPT	844	
SX@PSTCKPTN	854	
SX@PSTCKSPX	84C	
SX@PSTCKVOL	85C	
SX@PSTCKVRS	86C	
SX@PSTCLASV	BC	
SX@PSTCLSGP	2C	
SX@PSTCMB	40	
SX@PSTCNCHR	48	
SX@PSTCOMP	38	
SX@PSTCONCT	59C	
SX@PSTCSCHE	330	
SX@PSTCSTAT	5BC	
SX@PSTDADEF	8A8	
SX@PSTDBUGA	58	
SX@PSTDCNCT	5A0	
SX@PSTDDFCB	42C	
SX@PSTDDSET	414	
SX@PSTDEBUG	54	
SX@PSTDEFCL	8C8	
SX@PSTDESI	64	
SX@PSTDEVST	104	
SX@PSTDFCB	434	
SX@PSTDJB	704	
SX@PSTDRGI	260	
SX@PSTRHL	18C	
SX@PSTDSBEX	8C	
SX@PSTDSN	858	
SX@PSTDUCS	450	
SX@PSTDUPL	8CC	
SX@PSTDUPLC	8BC	
SX@PSTDWRKQ	2A4	
SX@PSTEDST	6C	
SX@PSTEMEM	1AC	
SX@PSTENCRS	92C	
SX@PSTEST	78	



Table 259. Cross Reference for \$SXADDR (continued)

Name	Offset	Hex Tag
SX@PSTEVTLS	8E8	
SX@PSTEXIT	80	
SX@PSTFEN	924	
SX@PSTFENO	930	
SX@PSTFSNSP	474	
SX@PSTFSSDF	94	
SX@PSTFSSET	478	
SX@PSTFSUPD	470	
SX@PSTFSYNC	47C	
SX@PSTGRPDF	8B0	
SX@PSTHPRM	348	
SX@PSTINCDS	A0	
SX@PSTINCL	9C	
SX@PSTINIT	AC	
SX@PSTINPDF	C4	
SX@PSTIRTRC	388	
SX@PSTJBJNC	8C4	
SX@PSTJBNUM	8D0	
SX@PSTJCLMD	344	
SX@PSTJCOR	730	
SX@PSTJECDF	C8	
SX@PSTJEXFL	780	
SX@PSTJGNUM	8B4	
SX@PSTJOBCL	CC	
SX@PSTJOBDF	8C0	
SX@PSTJOBNM	4D4	
SX@PSTJODSP	66C	
SX@PSTJONUM	8F4	
SX@PSTJQASC	7D0	
SX@PSTJQDSP	748	
SX@PSTJQPRI	778	
SX@PSTJQPST	148	
SX@PSTJRNG	8E4	
SX@PSTJSCH	7CC	
SX@PSTJSCLS	75C	
SX@PSTJSRVC	7A8	
SX@PSTLDED	590	
SX@PSTLDSR	8F0	
SX@PSTLGNA	3CC	



Table 259. Cross Reference for \$SXADDR (continued)

Name	Offset	Hex Tag
SX@PSTLIMIT	300	
SX@PSTLIM1	2F8	
SX@PSTLINE	39C	
SX@PSTLINEA	3A0	
SX@PSTLINST	3C8	
SX@PSTLMPRV	128	
SX@PSTLMT	12C	
SX@PSTLOAD	96C	
SX@PSTLSPIN	2E0	
SX@PSTLTRSS	3B8	
SX@PSTLTRST	3B4	
SX@PSTMASDF	190	
SX@PSTMDRC	3E8	
SX@PSTMDSAF	3F0	
SX@PSTMESYS	184	
SX@PSTMIND	1A8	
SX@PSTMZOD	728	
SX@PSTNCHG	60C	
SX@PSTNETAC	5D8	
SX@PSTNFYS	8DC	
SX@PSTNHOLD	7BC	
SX@PSTNJEC	5E4	
SX@PSTNLM	5E0	
SX@PSTNODE	5F0	
SX@PSTNOTAB	2E4	
SX@PSTNRT	5DC	
SX@PSTNTRSS	3E0	
SX@PSTNTRST	3DC	
SX@PSTNVFY	608	
SX@PSTOARCH	400	
SX@PSTOGDJC	14C	
SX@PSTOGDOC	1CC	
SX@PSTOGDOS	1C4	
SX@PSTOUTDF	8EC	
SX@PSTOUTDO	8FC	
SX@PSTOUTJX	914	
SX@PSTOUTSO	908	
SX@PSTPADDD	410	
SX@PSTPCETB	1D4	



Table 259. Cross Reference for \$SXADDR (continued)

Name	Offset	Hex Tag
SX@PSTPCY	240	
SX@PSTPDVOL	418	
SX@PSTPJQUE	77C	
SX@PSTPMEM	34C	
SX@PSTPRDFL	428	
SX@PSTPREFIX	44	
SX@PSTPRFCB	430	
SX@PSTPRFLS	438	
SX@PSTPRMD	4D8	
SX@PSTPROCL	408	
SX@PSTPROJC	158	
SX@PSTPRT	420	
SX@PSTPRTDF	248	
SX@PSTPRTY	8E0	
SX@PSTPRUCS	44C	
SX@PSTPRYO	900	
SX@PSTPUN	480	
SX@PSTQHPST	144	
SX@PSTRC	4F4	
SX@PSTRDCHR	4C	
SX@PSTRDEV	49C	
SX@PSTRDSTM	254	
SX@PSTRDVCM	494	
SX@PSTRDVCO	498	
SX@PSTRECV	24C	
SX@PSTREGN	160	
SX@PSTRGNUM	89C	
SX@PSTRGR	268	
SX@PSTRGRES	8A0	
SX@PSTRMT	4B0	
SX@PSTRMTA	4B4	
SX@PSTRMTLN	4B8	
SX@PSTRMTSH	4C4	
SX@PSTROPT	904	
SX@PSTRPRPU	548	
SX@PSTSAF	3F8	
SX@PSTSBMDD	558	
SX@PSTSCOPE	50	
SX@PSTSEGLM	90C	



Table 259. Cross Reference for \$SXADDR (continued)

Name	Offset	Hex Tag
SX@PSTSELECT	48C	
SX@PSTSFSS	440	
SX@PSTSICE	2DC	
SX@PSTSJSAF	7C4	
SX@PSTSMENV	130	
SX@PSTSMFD	270	
SX@PSTSNAME	1A0	
SX@PSTSNIFF	93C	
SX@PSTSNQ	36C	
SX@PSTSOCK	61C	
SX@PSTS0FFS	6B8	
SX@PSTS0KST	638	
SX@PSTSPDSN	298	
SX@PSTSPDVL	948	
SX@PSTSPL	940	
SX@PSTSPLDF	920	
SX@PSTSP00L	27C	
SX@PSTSPSAF	2A8	
SX@PSTSPSTX	2B0	
SX@PSTSP TAR	2B4	
SX@PSTSRSAF	510	
SX@PSTSRSF2	514	
SX@PSTSRVA	3D0	
SX@PSTSTMOD	6C0	
SX@PSTSVSCK	3D8	
SX@PSTSZNET	5CC	
SX@PSTTPB	2D0	
SX@PSTTPS	2D8	
SX@PSTTRANS	394	
SX@PSTTRCDV	52C	
SX@PSTTRFLT	2F0	
SX@PSTUNIT	518	
SX@PSTVERFY	94C	
SX@PSTVJBID	33C	
SX@PSTVOL	520	
SX@PSTWFORM	4D0	
SX@PSTWQAFF	7F4	
SX@PSTWS	528	
SX@PSTWSC	7E8	



Table 259. Cross Reference for \$SXADDR (continued)

Name	Offset	Hex Tag
SX@PSTWSCA	228	
SX@PSTWSCB	22C	
SX@PSTWTYPE	7F8	
SX@PSTZAPJB	338	
SXADDR	0	
SXADDRID	0	E2E7C1C4
SXADDRLN	A14	A18
SXADDRV	4	
SXADDRVN	4	1

## \$SYMCB information

### \$SYMCB heading information

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

### \$SYMCB mapping

Table 260. Structure SYM

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SYM	
0	(0)	CHARACTER	4	SYMID	Control block ID
4	(4)	ADDRESS	1	SYMLEVEL	Control block version
		.... ..1.		SYMVERSN	"X'02'" Control block version EQU
5	(5)	BITSTRING	1	SYMFLAG1	SYMREC control flags



Table 260. Structure SYM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		SYM1MSG	"B'10000000'" Suppress DEBUG message
6	(6)	BITSTRING	2		RESERVED
8	(8)	BITSTRING	1	SYMSAVE	Save area
Table of addresses of control blocks defined by CBDEFs					
184	(B8)	ADDRESS	4	SYMCB1	Control block #1 address
188	(BC)	ADDRESS	4	SYMCB2	Control block #2 address
192	(C0)	ADDRESS	4	SYMCB3	Control block #3 address
196	(C4)	ADDRESS	4	SYMCB4	Control block #4 address
200	(C8)	ADDRESS	4	SYMCB5	Control block #5 address
204	(CC)	ADDRESS	4	SYMCB6	Control block #6 address
208	(D0)	ADDRESS	4	SYMCB7	Control block #7 address
212	(D4)	ADDRESS	4	SYMCB8	Control block #8 address
216	(D8)	ADDRESS	4	SYMCB9	Control block #9 address
220	(DC)	ADDRESS	4	SYMCB10	Control block #10 address
224	(E0)	ADDRESS	4	SYMCBBAS	Address of base control block
Registers R2-R13 that were current when the \$SYMREC macro was invoked.					
228	(E4)	SIGNED	4	SYMCLR2	Callers register 2 data
232	(E8)	SIGNED	4	SYMCLR3	Callers register 3 data
236	(EC)	SIGNED	4	SYMCLR4	Callers register 4 data
240	(F0)	SIGNED	4	SYMCLR5	Callers register 5 data
244	(F4)	SIGNED	4	SYMCLR6	Callers register 6 data
248	(F8)	SIGNED	4	SYMCLR7	Callers register 7 data
252	(FC)	SIGNED	4	SYMCLR8	Callers register 8 data
256	(100)	SIGNED	4	SYMCLR9	Callers register 9 data
260	(104)	SIGNED	4	SYMCLR10	Callers register 10 data
264	(108)	SIGNED	4	SYMCLR11	Callers register 11 data
268	(10C)	SIGNED	4	SYMCLR12	Callers register 12 data
272	(110)	SIGNED	4	SYMCLR13	Callers register 13 data
Bits set by the TYPE=COND keyword of the \$SYMTAB macro					
276	(114)	BITSTRING	1	SYMBYTE1	Condition byte 1 (bits 1-8)
277	(115)	BITSTRING	1	SYMBYTE2	Condition byte 2 (bits 9-16)
278	(116)	BITSTRING	2		Reserved for future use
280	(118)	ADDRESS	4	SYMCURP	Current data pointer
284	(11C)	ADDRESS	4	SYMSTRTP	Pointer to start of current section
288	(120)	DBL WORD	8	SYMGWORK(0)	General work area
288	(120)	SIGNED	4	SYMHXP(0)	Parm list for HEXCNVT
288	(120)	ADDRESS	4	SYMHXPI	+0 address of input area
292	(124)	ADDRESS	4	SYMHXP0	+4 address of output area
296	(128)	SIGNED	2	SYMHXPL	+8 Length of input area
298	(12A)	BITSTRING	10		+10 Work area for convert
288	(120)	DBL WORD	8	SYMDWORK	Work area for CVD
296	(128)	BITSTRING	12	SYMWORK2	Work area for edit instruction



Table 260. Structure SYM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
MACDATE = 06/12/85					
288	(120)	SIGNED	4	(0)	ALIGN THE LIST TO WORD BOUNDARY
288	(120)	CHARACTER	16	SYMRECL(0)	
288	(120)	BITSTRING	1	ASR1567L	LEVEL AND VERSION OF SYMREC MACRO
289	(121)	BITSTRING	3	ASR1567O	RESERVED
292	(124)	ADDRESS	4	ASR1567S	ADDRESS OF SYMPTOM RECORD
296	(128)	BITSTRING	8	ASR1567R	RESERVED
288	(120)	SIGNED	4	SYMMAP(0)	MODMAP-STYLE ENTRY
308	(134)	ADDRESS	4	SYMCNVTH	Address of convert routine to HEX
Actual symptom record					
312	(138)	BITSTRING	1900	SYMSYMR	Symtom record storage
312	(138)	X'180'	0	SYMLEN3	"SYMSYMR+ADSRDBL-ADSR" Length of section 3
312	(138)	X'182'	0	SYMOFF3	"SYMSYMR+ADSRDBO-ADSR" Offset to section 3
312	(138)	X'184'	0	SYMLEN4	"SYMSYMR+ADSRROSL-ADSR" Length of section 4
312	(138)	X'186'	0	SYMOFF4	"SYMSYMR+ADSRROSA-ADSR" Offset to section 4
312	(138)	X'188'	0	SYMLEN5	"SYMSYMR+ADSRRONL-ADSR" Length of section 5
312	(138)	X'18A'	0	SYMOFF5	"SYMSYMR+ADSRRONA-ADSR" Offset to section 5
2212	(8A4)	BITSTRING	1	SYMSYME(0)	End of symptom record
Text for DEBUG WTO					
2212	(8A4)	BITSTRING	120	SYMCBMSG	Work area for WTO text
2336	(920)	DBL WORD	8	(0)	Ensure Double Word length
2336	(920)	X'920'	0	SYMLEN	"*-SYM" Length of storage
<p>Equates for SYMPTOM keys in section 5. Certain key ranges have specific meanings. The following table describes the defined ranges:</p> <p>Key range User category and data type</p> <p>0001-00FF Reserved</p> <p>0100-0FFF MVS System programs</p> <p>1000-18FF VM System programs</p> <p>1900-1FFF DOS/VSE System programs</p> <p>2000-BFFF Reserved</p> <p>C900-CFFF Program products and non-printable HEX data</p> <p>D000-DFFF Program products and printable EBCDIC data</p> <p>E900-EFFF Reserved</p> <p>F000 Any program and printable EBCDIC</p> <p>F001-F0FF Not assigned</p> <p>F100-FEFF Reserved</p> <p>FF00 Any program and non-printable EBCDIC data</p> <p>FF01-FFFF Not assigned</p> <p>JES2 uses keys in the 0100-0FFF range</p>					
2336	(920)	BITSTRING	0	SYKBUFF	"X'0100'" Buffer contents
2336	(920)	BITSTRING	0	SYKJQE	"X'0101'" JQE contents
2336	(920)	BITSTRING	0	SYKJCT	"X'0102'" JCT contents
2336	(920)	BITSTRING	0	SYKNCC	"X'0103'" NCC record
2336	(920)	BITSTRING	0	SYKNTQ	"X'0104'" NTQ contents



Table 260. Structure SYM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2336	(920)	BITSTRING	0	SYKSWBM	"X'0105'" SJF SJSMP (SWBTU_MERGE) contents
2336	(920)	BITSTRING	0	SYKSJSP	"X'0106'" SJF SJTSP (SWBTUREQ SPLIT)
2336	(920)	BITSTRING	0	SYKSMSU	"X'0107'" SWB Modify Subtask parms
2336	(920)	BITSTRING	0	SYKNMR	"X'0108'" NMR CONTENTS
2336	(920)	BITSTRING	0	SYKWTOPL	"X'0109'" \$WTO PARM LIST CONTENTS
2336	(920)	BITSTRING	0	SYKNJH	"X'010A'" Network Header contents
2336	(920)	BITSTRING	0	SYKSMF	"X'010B'" SMF \$CPPOOL info
2336	(920)	BITSTRING	0	SYKX15	"X'010C'" Exit 15 parm list
2336	(920)	BITSTRING	0	SYKMQT	"X'010D'" MQT for SP00L management
2336	(920)	BITSTRING	0	SYKSIGE	"X'010E'" Expected signature record
2336	(920)	BITSTRING	0	SYKSIGA	"X'010F'" Actual signature record
2336	(920)	BITSTRING	0	SYKF256	"X'0110'" First 256 bytes of first block of failing trkgrp
2336	(920)	BITSTRING	0	SYKICE	"X'0111'" ICE contents
2336	(920)	BITSTRING	0	SYKICEAD	"X'0112'" ICE address
2336	(920)	BITSTRING	0	SYKBERT	"X'0113'" BERT data
2336	(920)	BITSTRING	0	SYKBRTAD	"X'0114'" BERT address
2336	(920)	BITSTRING	0	SYKPDD	"X'0115'" DD name of dataset
2336	(920)	BITSTRING	0	SYKPCNT	"X'0116'" Job total counts
2336	(920)	BITSTRING	0	SYKJQEO	"X'0117'" JQE contents of signature record JQE
2336	(920)	BITSTRING	0	SYKMTTR	"X'0118'" MTTR associated with error
2336	(920)	BITSTRING	0	SYKNJET	"X'0119'" \$NJETRC trace table
2336	(920)	BITSTRING	0	SYKMQTR	"X'011A'" MQTR associated with error
2336	(920)	BITSTRING	0	SYKSJIOB	"X'011B'" SJIOB associated with error
2336	(920)	BITSTRING	0	SYKDAS	"X'011C'" DAS associated with error
2336	(920)	BITSTRING	0	SYKDASTR	"X'011D'" Target DAS if SP00L migr
2336	(920)	BITSTRING	0	SYKPSV	"X'011E'" PSV format save area
2336	(920)	BITSTRING	0	SYKPSVAR	"X'011F'" PSV format AR save area
2336	(920)	BITSTRING	0	SYKBTE	"X'0120'" Bad track entry (BTE)
2336	(920)	BITSTRING	0	SYKBAT	"X'0121'" BAT associated with error
2336	(920)	BITSTRING	0	SYKENFRC	"X'0122'" ENFREQ RC value
2336	(920)	BITSTRING	0	SYKENFSG	"X'0123'" ENFREQ signal
2336	(920)	BITSTRING	0	SYKCKA	"X'0124'" CKPT CKA data area
2336	(920)	BITSTRING	0	SYKCKIP	"X'0125'" CKPT CKIP data area
2336	(920)	BITSTRING	0	SYKCCWA	"X'0126'" CCW area address
2336	(920)	BITSTRING	0	SYKCCWS	"X'0127'" CCW area contents
2336	(920)	BITSTRING	0	SYKCDATA	"X'0128'" CCW data areas address
2336	(920)	BITSTRING	0	SYKCDAT	"X'0129'" CCW data areas contents
2336	(920)	BITSTRING	0	SYKDSN	"X'012A'" Data set name
2336	(920)	BITSTRING	0	SYKVOL	"X'012B'" Volume Serial
2336	(920)	BITSTRING	0	SYKDEB	"X'012C'" DEB contents
2336	(920)	BITSTRING	0	SYKDXPXM	"X'012D'" Define Extent parms
2336	(920)	BITSTRING	0	SYKWSCNM	"X'012E'" WSC block in error
2336	(920)	BITSTRING	0	SYKWSCLB	"X'012F'" Label where WSC error found



Table 260. Structure SYM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
2336	(920)	BITSTRING	0	SYKWSCOV	"X'0130'" Old value
2336	(920)	BITSTRING	0	SYKWSCRV	"X'0131'" Good value (replacing old)
2336	(920)	BITSTRING	0	SYKRECLN	"X'0132'" Record length
2336	(920)	BITSTRING	0	SYKCBMST	"X'0133'" CPMaster in error
2336	(920)	BITSTRING	0	SYKREG	"X'0134'" Register information
2336	(920)	BITSTRING	0	SYKSJB	"X'0135'" SJB CB
2336	(920)	BITSTRING	0	SYKSDB	"X'0136'" SDB CB

Table 261. Cross Reference for \$SYMCB

Name	Offset	Hex Tag
ASR1567L	120	1
ASR15670	121	0
ASR1567R	128	0
ASR1567S	124	
SYKBAT	920	121
SYKBERT	920	113
SYKBRTAD	920	114
SYKBTE	920	120
SYKBUFF	920	100
SYKCBMST	920	133
SYKCCWA	920	126
SYKCCWS	920	127
SYKCDAT	920	129
SYKCDATA	920	128
SYKCKA	920	124
SYKCKIP	920	125
SYKDAS	920	11C
SYKDASTR	920	11D
SYKDEB	920	12C
SYKDSN	920	12A
SYKDXPRM	920	12D
SYKENFRC	920	122
SYKENFSG	920	123
SYKF256	920	110
SYKICE	920	111
SYKICEAD	920	112
SYKJCT	920	102
SYKJQE	920	101
SYKJQE0	920	117
SYKMQT	920	10D



Table 261. Cross Reference for \$SYMCB (continued)

Name	Offset	Hex Tag
SYKMQTR	920	11A
SYKMTTR	920	118
SYKNCC	920	103
SYKNJET	920	119
SYKNJH	920	10A
SYKNMR	920	108
SYKNTQ	920	104
SYKPCNT	920	116
SYKPDD	920	115
SYKPSV	920	11E
SYKPSVAR	920	11F
SYKRECLN	920	132
SYKREG	920	134
SYKSDB	920	136
SYKSIGA	920	10F
SYKSIGE	920	10E
SYKSJB	920	135
SYKSJIOB	920	11B
SYKSJSP	920	106
SYKSMF	920	10B
SYKSMSU	920	107
SYKSWBM	920	105
SYKVOL	920	12B
SYKWSCLB	920	12F
SYKWSCNM	920	12E
SYKWSCOV	920	130
SYKWSCRV	920	131
SYKWTOPL	920	109
SYKX15	920	10C
SYM	0	
SYMBYTE1	114	
SYMBYTE2	115	
SYMCBBAS	E0	
SYMCBMSG	8A4	
SYMCB1	B8	
SYMCB10	DC	
SYMCB2	BC	
SYMCB3	C0	
SYMCB4	C4	



Table 261. Cross Reference for \$SYMCB (continued)

Name	Offset	Hex Tag
SYMCB5	C8	
SYMCB6	CC	
SYMCB7	D0	
SYMCB8	D4	
SYMCB9	D8	
SYMCLR10	104	
SYMCLR11	108	
SYMCLR12	10C	
SYMCLR13	110	
SYMCLR2	E4	
SYMCLR3	E8	
SYMCLR4	EC	
SYMCLR5	F0	
SYMCLR6	F4	
SYMCLR7	F8	
SYMCLR8	FC	
SYMCLR9	100	
SYMCNVTH	134	
SYMCURP	118	
SYMDWORK	120	
SYMFLAG1	5	
SYMGWORK	120	
SYMHEXP	120	
SYMHEXPI	120	
SYMHEXPL	128	
SYMHEXP0	124	
SYMID	0	E2E8D440
SYMLN	920	920
SYMLN3	138	180
SYMLN4	138	184
SYMLN5	138	188
SYMLEVEL	4	
SYMMAP	120	
SYM0FF3	138	182
SYM0FF4	138	186
SYM0FF5	138	18A
SYMRECL	120	
SYMSAVE	8	
SYMSTRTP	11C	



Table 261. Cross Reference for \$SYMCB (continued)

Name	Offset	Hex Tag
SYMSYME	8A4	
SYMSYMR	138	
SYMVERSN	4	2
SYMWORK2	128	
SYM1NMSG	5	80

## \$S35D information

### \$S35D programming interface information

\$S35D is a programming interface.

### \$S35D heading information

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



## \$S35D mapping

Table 262. Structure S35DSECT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	S35DSECT	
0	(0)	CHARACTER	4	S35DID	Eyecatcher (see above)
4	(4)	ADDRESS	4	S35DNEXT	Pointer to next buffer
8	(8)	ADDRESS	4	S35DPREV	Address of prior buffer
12	(C)	SIGNED	2	S35DMSG	LENGTH OF TEXT IN LOG BUFFER
14	(E)	CHARACTER	146	S35DMSG(0)	MESSAGE AREA
14	(E)	CHARACTER	8	S35DTIME	HH.MM.SS
14	(E)	CHARACTER	2		Indent id 2 characters
16	(10)	CHARACTER	4	S35DMCON	Connect id for minor WQE
22	(16)	CHARACTER	1		
23	(17)	CHARACTER	8	S35DJOB	JOB NNNN
31	(1F)	CHARACTER	1		
32	(20)	CHARACTER	1	S35DACTF	
33	(21)	CHARACTER	1	S35DTEXT(0)	Start of text
33	(21)	X'9'	0	S35HIDL	"9" SIZE OF HASP ID PORTION OF TEXT
33	(21)	CHARACTER	1	S35DHID	HASPXXX-
33	(21)	X'1C'	0	S35DFILL	"*-S35DMSG" Length to indent message
42	(2A)	CHARACTER	8	S35DJOB	JOBNAME
50	(32)	CHARACTER	1		
50	(32)	X'6D'	0	S35DXTL	"(S35DMSG+L'S35DMSG-*)"
51	(33)	CHARACTER	109	S35DXT	Message text
160	(A0)	SIGNED	2	S35DTMSL	Total message length
162	(A2)	SIGNED	2	S35DMS2L	Length of 2nd half of msg
164	(A4)	ADDRESS	4	S35DMS2P	Start of 2nd half of msg
168	(A8)	BITSTRING	1	S35DFLG1	Flag byte
		1... ....		S35DSPLT	"B'10000000" Message is to be split
		.1.. ....		S35DJOBI	"B'01000000" JOBI needs to be added
		..1. ....		S35DSUPP	"B'00100000" WFO was suppressed
172	(AC)	SIGNED	4	(0)	
172	(AC)	BITSTRING	16	S35DTMST(0)	<--+ Time associated with msg
172	(AC)		8	S35DTME	Time in HHMMSSthmju0000
180	(B4)		4	S35DDATE	Date in 0YYYYDDD
184	(B8)	SIGNED	4		<--+ Reserved (must be 0)
188	(BC)	SIGNED	4	S35CNSID	Console id for message
192	(C0)	DBL WORD	8	S35DSTCK	STCK timestamp of a message
192	(C0)	X'84'	0	S35DMAX	"132" Maximum log lrecl size
200	(C8)	DBL WORD	8	(0)	
200	(C8)	X'C8'	0	S35DL	"*-S35DSECT" LENGTH OF WORK AREA
200	(C8)	X'FF'	0	S35SP	"255" SUBPOOL FOR WORK AREA

Table 263. Cross Reference for \$S35D

Name	Offset	Hex Tag
S35CNSID	BC	



Table 263. Cross Reference for \$S35D (continued)

Name	Offset	Hex Tag
S35DACTF	20	
S35DDATE	B4	
S35DFILL	21	1C
S35DFLG1	A8	
S35DHID	21	
S35DID	0	E2F3F5A7
S35DJOB	17	
S35DJOBI	A8	40
S35DJOBN	2A	
S35DL	C8	C8
S35DMAX	C0	84
S35DMCON	10	
S35DMSG	E	
S35DMSGL	C	
S35DMS2L	A2	
S35DMS2P	A4	
S35DNEXT	4	
S35DPREV	8	
S35DSECT	0	
S35DSPLT	A8	80
S35DSTCK	C0	
S35DSUPP	A8	20
S35DTEXT	21	
S35DTIME	E	
S35DTME	AC	
S35DTMSL	A0	
S35DTMST	AC	
S35DTXT	33	
S35DTXTL	32	6D
S35HIDL	21	9
S35SP	C8	FF

## \$TAB information

### \$TAB programming interface information

\$TAB is a programming interface.

### \$TAB heading information

**Common name:** HASP Track Allocation Block DSECT



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

## \$TAB mapping

Table 264. Structure TAB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TAB	, TRACK ALLOCATION BLOCK
0	(0)	SIGNED	4	TABMTTR	Last allocated buffer (must end up DWORD aligned for a PLO)
4	(4)	BITSTRING	1	TABFLAG	FLAG BYTE
		.... ....		TABNONTC	"B'00000000'" Non-track-celled -- PDDb LEVEL
		.1.. ....		TABTRKCL	"B'01000000'" Track-celled -- PDDb LEVEL
		11.. ....		TABALLOC	"B'11000000'" Non-track-celled -- JOB LEVEL
5	(5)	BITSTRING	1		Reserved
6	(6)	BITSTRING	1	TABMAXR	MAX RECD NBR ON TRACK
7	(7)	BITSTRING	1	TABUFCNT	NBR BUFFERS LEFT IN CELL
7	(7)	X'4'	0	TABRCPBA	"TABFLAG,*-TABFLAG" BACK-UP AREA FOR RCPXTTR FOR MAS SPOOL MESSAGES
8	(8)	SIGNED	4	TABAIOT	ADDR OF ALLOCATION IOT
8	(8)	X'C'	0	TABLNGTH	"*-TAB" TAB DSECT LENGTH



Table 264. Structure TAB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>TAB Type Descriptions</p> <p>A track cell TAB is the control block associated with a track-celled data set. It contains the address of an allocation input/output table (IOT), the MTTR of the last buffer allocated from the track cell, and the number of buffers left in the track cell, and the track cell TAB indication, TABTRKCL.</p> <p>A non-track cell TAB is the control block associated with a non-track-celled data set, such as a punch data set. The non-track cell TAB consists simply of the address of an allocation IOT and the non-track cell TAB indication, TABNONTC.</p> <p>The allocation TAB is a special case of the track cell TAB, identified by the TABTRKCL indicator. It is associated with all data sets in a job belonging to a non-track-celled SYSOUT class and with JES2 control blocks that reside on spool volumes in space allocated by track cell, but that are written and read as individual records rather than on a track cell basis.</p> <p>The track cell and non-track cell TABs are located in the subsystem data block (SDB) associated with the output data set. The allocation TAB is located in an allocation IOT, that is, an IOT that contains track group allocation elements (TGAEs). The primary allocation IOT, the secondary allocation IOTs, and SPIN IOTs, are examples of allocation IOTs that contain an allocation TAB.</p> <p>References to use in JES2:</p> <ul style="list-style-type: none"> <li>track cell TAB</li> <li>non-track cell TAB</li> <li>track-celled data set</li> <li>track-celled PDDB</li> <li>track-celled SYSOUT class</li> <li>non-track-celled data set</li> <li>non-track-celled PDDB</li> <li>non-track-celled SYSOUT class</li> </ul>					

Table 265. Cross Reference for \$TAB

Name	Offset	Hex	Tag
TAB	0		
TABAIOT	8		
TABALLOC	4		C0
TABFLAG	4		
TABLNTH	8		C
TABMAXR	6		
TABMTTR	0		
TABNONTC	4		0
TABRCPBA	7		4
TABTRKCL	4		40
TABUFCNT	7		

## \$TED information

### \$TED heading information

<b>Common name:</b>	Trace Enablement Descriptor
<b>Macro ID:</b>	\$TED
<b>DSECT name:</b>	TED



**Owning component:** JES2 (SC1BH)

**Eye-catcher ID:** 'TED '  
 Offset: -8 (in the JES2 CSA storage prefix)  
 Length: 4

**Storage attributes:** Subpool: 241  
 Key: 1  
 Residency: Virtual is in 31 bit common storage. Real storage can be anywhere in 64 bit storage

**Size:** See the TEDLEN equate (plus an 8 byte prefix)

**Created by:** HASPIRSI

**Pointed to by:** CCTTED field of the \$HCCT data area

**Serialization:** None required

**Function:** The \$TED DSECT maps the data areas needed to determine if a particular trace is active and if so, what filters may apply to that trace.  
 The \$TED has a basic header followed by an array of 256 entries that specify the characteristics for all possible trace entries.

## \$TED mapping

Table 266. Structure TED

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TED	
0	(0)	ADDRESS	1	TEDVERS	Version number of TED
0	(0)	X'1'	0	TEDVERSN	"1,1,C'X'" Current version number
1	(1)	BITSTRING	1	TEDTRFLG	Trace facility flag byte
		1... ....		TEDTRACT	"B'10000000'" Event tracing activated
		.1.. ....		TEDTRLOG	"B'01000000'" Event trace log active
2	(2)	BITSTRING	1	TEDHAMFL	HAM tracing options
		1... ....		TEDHFBRS	"B'10000000'" SPOOL browse (no corbufs)
		.1.. ....		TEDHFBRL	"B'01000000'" SPOOL browse with corbufs
		..1. ....		TEDHFSAP	"B'00100000'" SAPI GET tracing
		...1 ....		TEDHFPSO	"B'00010000'" PSO GET tracing
		.... 1...		TEDHFPUT	"B'00001000'" PUT tracing active
		.... .1..		TEDHFFSS	"B'00000100'" FSS tracing active
		.... ..1.		TEDHFGET	"B'00000010'" GET tracing active
		.... ...1		TEDHFCNV	"B'00000001'" CNVT tracing active
		1111 1111		TEDHFALL	"B'11111111'" All valid HAM traces
3	(3)	BITSTRING	1	TEDHBFSZ	HAM trace buffer size (meg)
4	(4)	SIGNED	4		Reserved
8	(8)	DBL WORD	8	TEDTRBTH(0)	---+ Next 2 fields stay together
8	(8)	ADDRESS	4	TEDTRTBL	Address of current trace table
12	(C)	ADDRESS	4	TEDTRLGG	---+ Addr of table being logged
16	(10)	ADDRESS	4	TEDTRPLG	Addr of previous log table



Table 266. Structure TED (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
20	(14)	SIGNED	4	TEDTRSIZ	Trace table size (in bytes)
24	(18)	DBL WORD	8	TEDTRTOT(0)	---+ Next two fields are CDS
24	(18)	SIGNED	4	TEDTRRLC	Count of recent discards
28	(1C)	SIGNED	4	TEDTRCTL	---+ Count of total discards
32	(20)	SIGNED	4	TEDTRCUR	Count of current trace tables
36	(24)	SIGNED	4	TEDTRNEW	Count of target trace tables
40	(28)	SIGNED	4	TEDTRFRE	Count of free trace tables
44	(2C)	ADDRESS	4	TEDDM654	Address of domid for 654 msg
48	(30)	SIGNED	4	TEDTM654	Time the 654 msg was issued
52	(34)	ADDRESS	2	TEDTRCPG	TRACEDEF PAGES= parameter
54	(36)	ADDRESS	2	TEDTRCWP	HASP050 warning percentage
56	(38)	SIGNED	4	TEDTRLGS	Trace log spin size, in lines
60	(3C)	CHARACTER	1	TEDTRCLS	Trace log sysout class
61	(3D)	BITSTRING	1	TEDHTFLG	HAM trace options
	..1. ....			TEDHTLOG	"B'00100000" LOG=YES specified
	...1 ....			TEDHTELG	"B'00010000" LOG=IFERROR specified
62	(3E)	ADDRESS	2		Reserved for future use
HAM tracing filters					
64	(40)	CHARACTER	8	TEDHMJNA	Job name to filter on
72	(48)	SIGNED	4	TEDHMJNU	Job number to filter on
DEBUG option filters					
76	(4C)	CHARACTER	8	TEDDBGNA	Job name filter for DEBUG
84	(54)	SIGNED	4	(7)	Reserved
Trace entry descriptors					
112	(70)	SIGNED	4	(0)	
112	(70)	BITSTRING	1	TEDTRIDS	Descriptors for each trace entry
112	(70)	X'88'	0	TEDTIDTB	"TEDTRIDS+TEDELEN" Trace ID=1-255. (ID=0 is used internally for discarding)
6256	(1870)	ADDRESS	8	TEDCTRST(0)	Start of CTRACE areas
6256	(1870)	ADDRESS	8	TEDRJQE	Addr JQE Rolling Trace Tbl
6264	(1878)	ADDRESS	8	TEDRJOE	Addr JOE Rolling Trace Tbl
6272	(1880)	ADDRESS	8	TEDRDISP	Dispatcher rolling trace tb
6280	(1888)	ADDRESS	8	TEDRSAPI	SAPI rolling trace table
6288	(1890)	ADDRESS	8	TEDRCKPT	CKPT rolling trace table
6296	(1898)	ADDRESS	8	TEDRQGET	QGET rolling trace table
6304	(18A0)	ADDRESS	8	TEDRPSV	SAVE/RETURN rolling trc tbl
6304	(18A0)	X'1870'	0	TEDCTRAC	"TEDCTRST,*-TEDCTRST" Define JES2 private CTRACE pointers
6312	(18A8)	DBL WORD	8	(0)	Align on a double word
6312	(18A8)	X'18A8'	0	TEDLEN	"*-TED" Length of the TED



Table 267. Structure TEDE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TEDE	, Trace descriptor entry
<p>The TEDTRFL1 flag serve a dual purpose. The trace id bit definitions start with bit 0 and use increasing bit numbers while the SSI function bit definitions start at bit 7 and use decreasing bit numbers. Unused bits in the middle are reserved for future use.</p>					
0	(0)	BITSTRING	1	TEDTRFL1	TRACE/SSI flag byte
	1... ....			TEDTRDEF	"B'10000000'" Trace id is defined
	.1.. ....			TEDTRDON	"B'01000000'" Trace id is being traced
	.... ...1			TEDSSION	"B'00000001'" SSI function being traced
<p>Filtering is done by ensuring that if any of the TEDFILTR bits are on, then the current environment must match one of the conditions specified. If filtering is active (one of the TEDFILTR bits is on), then if any of TEDLIMTR bits are on, then current environment must match all of the conditions specified (in addition to one of the condition indicated by TEDFILTR)</p>					
1	(1)	BITSTRING	1	TEDFILTR	Filtering flag byte (OR filtering)
	1... ....			TEDFJOBN	"B'10000000'" Filter on job name
	.1.. ....			TEDFJNUM	"B'01000000'" Filter on job number
	..1. ....			TEDFASID	"B'00100000'" Filter on ASID
2	(2)	BITSTRING	1	TEDLIMTR	Additional LIMITs (AND filtering)
	1... ....			TEDLTCBA	"B'10000000'" Limit to specified TCB
3	(3)	BITSTRING	1		Reserved
4	(4)	CHARACTER	8	TEDJOBNM	Job name to filter on
12	(C)	SIGNED	4	TEDJBNUM	Job number to filter on
16	(10)	SIGNED	4	TEDTCBA	TCB address to limit tracing
20	(14)	ADDRESS	2	TEDASID	ASID to filter on
24	(18)	SIGNED	4	(0)	Align on full word
24	(18)	X'18'	0	TEDELEN	"*-TEDE" Length of an entry

Table 268. Cross Reference for \$TED

Name	Offset	Hex	Tag
TED	0		
TEDASID	14		
TEDCTRAC	18A0		1870
TEDCTRST	1870		
TEDDBGNA	4C		
TEDDM654	2C		
TEDE	0		
TEDELEN	18		18
TEDFASID	1		20
TEDFILTR	1		0
TEDFJNUM	1		40



Table 268. Cross Reference for \$TED (continued)

Name	Offset	Hex Tag
TEDFJOB	1	80
TEDHAMFL	2	
TEDHBFSZ	3	
TEDHFALL	2	FF
TEDHFBRL	2	40
TEDHFBR	2	80
TEDHFCNV	2	1
TEDHFFSS	2	4
TEDHFGET	2	2
TEDHFPSO	2	10
TEDHFPUT	2	8
TEDHFSAP	2	20
TEDHJMNA	40	
TEDHJMNU	48	
TEDHTELG	3D	10
TEDHTFLG	3D	0
TEDHTLOG	3D	20
TEDJBNUM	C	
TEDJOBNM	4	
TEDLEN	18A8	18A8
TEDLIMTR	2	0
TEDLTCBA	2	80
TEDRCKPT	1890	
TEDRDISP	1880	
TEDRJOE	1878	
TEDRJQE	1870	
TEDRPSV	18A0	
TEDRQGET	1898	
TEDRSAPI	1888	
TEDSSION	0	1
TEDTCBA	10	
TEDTIDTB	70	88
TEDTM654	30	
TEDTRACT	1	80
TEDTRBTH	8	
TEDTRCLS	3C	
TEDTRCPG	34	
TEDTRCTL	1C	
TEDTRCUR	20	



Table 268. Cross Reference for \$TED (continued)

Name	Offset	Hex Tag
TEDTRCWP	36	
TEDTRDEF	0	80
TEDTRDON	0	40
TEDTRFLG	1	0
TEDTRFL1	0	0
TEDTRFRE	28	
TEDTRIDS	70	
TEDTRLGG	C	
TEDTRLGS	38	
TEDTRLOG	1	40
TEDTRNEW	24	
TEDTRPLG	10	
TEDTRRLC	18	
TEDTRSIZ	14	
TEDTRTBL	8	
TEDTRTOT	18	
TEDVERS	0	
TEDVERSN	0	1

## \$TEWA information

### \$TEWA heading information

**Common name:** Timed Event Work Area

**Macro ID:** \$TEWA

**DSECT name:** TEWA

**Owning component:** JES2 (SC1BH)

**Eye-catcher ID:** '\$TEWA'  
Offset: 0  
Length: 8

**Storage attributes:** Subpool: 230  
Key: 1  
Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.

**Size:** See TEWALEN

**Created by:** HASPNUC

**Pointed to by:** - PCBTEWA in \$PERFCB.

**Serialization:** - None

**Function:** The \$TEWA contains storage used by the MTTR Timed Event Data processing.



## \$TEWA mapping

Table 269. Structure TEWA

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TEWA	
0	(0)	CHARACTER	8	TEWA_ACRO	Eye catcher \$TEWA
8	(8)	BITSTRING	16	TEWA_TOKEN	Token
24	(18)	BITSTRING	216	TEWA_SAVEAREA	Savearea for IEATEDS service
240	(F0)	ADDRESS	4	TEWA_PCESAVE	Savearea for PCE address
244	(F4)	CHARACTER	8	TEWA_THREAD	Saved Thread Name
252	(FC)	CHARACTER	32	TEWA_DATA	Work area
252	(FC)	X'FC'	0	TEWA_DATA16	"TEWA_DATA,16,C'X'" Data to pass to IEATEDS
288	(120)	DBL WORD	8	(0)	Align TedWorkArea on dbl word
288	(120)	BITSTRING	1	TEWA_WORKAREA	
MACDATE -06/08/18-<0>					
0	(0)	X'920'	0	M00M1572	"TEWAPLD" ++ IEATEDS NAME
2336	(920)	DBL WORD	8	TEWAPLD(0)	++ IEATEDS PARM LIST
2336	(920)	BITSTRING	1	TEWAPLD_XVERSION	++ INPUT XVERSION
2337	(921)	BITSTRING	1	TEWAPLD_XREQUEST	++ XREQUEST
2337	(921)	X'0'	0	TEWAPLD_XREQUEST_RECORD	"0" ++ XREQUEST.RECORD KEYWORD
2337	(921)	X'1'	0	TEWAPLD_XREQUEST_REGISTER	"1" ++ XREQUEST.REGISTER KEYWORD
2338	(922)	BITSTRING	1	TEWAPLD_XEVENTTYPE	++ XEVENTTYPE
2338	(922)	X'0'	0	TEWAPLD_XEVENTTYPE_START	"0" ++ XEVENTTYPE.START KEYWORD
2338	(922)	X'1'	0	TEWAPLD_XEVENTTYPE_MID	"1" ++ XEVENTTYPE.MID KEYWORD
2338	(922)	X'2'	0	TEWAPLD_XEVENTTYPE_END	"2" ++ XEVENTTYPE.END KEYWORD
2339	(923)	CHARACTER	1	TEWAPLD_XRSV0002	++ RESERVED
2340	(924)	CHARACTER	32	TEWAPLD_XCOMPNAME	++
2372	(944)	CHARACTER	8	TEWAPLD_XMODNAME	++
2380	(94C)	CHARACTER	8	TEWAPLD_XMODLEVEL	++
2388	(954)	SIGNED	4	TEWAPLD_XMODOFFSET	++ FIELD_LABEL
2392	(958)	CHARACTER	8	TEWAPLD_XEVENTTHREAD	++
2400	(960)	CHARACTER	16	TEWAPLD_XTEDTOKEN	++
2416	(970)	CHARACTER	32	TEWAPLD_XEVENTDESC	++
2448	(990)	CHARACTER	16	TEWAPLD_XUSERDATACOMBI	++ FIELD_LABEL
2464	(9A0)	SIGNED	4	TEWAPLD_XMAXEVENTS	++
2468	(9A4)	ADDRESS	4	TEWAPLD_XWORKAREA_ADDR	++ ADDR
2472	(9A8)	CHARACTER	24	TEWAPLD_XRSV0004	++ RESERVED
2472	(9A8)	X'A0'	0	TEWAPLDL	"*-TEWAPLD" ++ LENGTH OF PLIST
IEATEDS-0					
0	(0)	X'9C0'	0	TEWALEN	"*-TEWA" Length of entire TEWA

Table 270. Cross Reference for \$TEWA

Name	Offset	Hex Tag
M00M1572	0	920
TEWA	0	



Table 270. Cross Reference for \$TEWA (continued)

Name	Offset	Hex Tag
TEWA_ACRO	0	
TEWA_DATA	FC	
TEWA_DATA16	FC	FC
TEWA_PCESAVE	F0	
TEWA_SAVEAREA	18	
TEWA_THREAD	F4	
TEWA_TOKEN	8	
TEWA_WORKAREA	120	
TEWALEN	0	9C0
TEWAPLD	920	
TEWAPLD_XCOMPNAME	924	
TEWAPLD_XEVENTDESC	970	
TEWAPLD_XEVENTTHREAD	958	
TEWAPLD_XEVENTTYPE	922	
TEWAPLD_XEVENTTYPE_END	922	2
TEWAPLD_XEVENTTYPE_MID	922	1
TEWAPLD_XEVENTTYPE_START	922	0
TEWAPLD_XMAXEVENTS	9A0	
TEWAPLD_XMODLEVEL	94C	
TEWAPLD_XMODNAME	944	
TEWAPLD_XMODOFFSET	954	
TEWAPLD_XREQUEST	921	
TEWAPLD_XREQUEST_RECORD	921	0
TEWAPLD_XREQUEST_REGISTER	921	1
TEWAPLD_XRSV0002	923	
TEWAPLD_XRSV0004	9A8	
TEWAPLD_XTEDTOKEN	960	
TEWAPLD_XUSERDATACOMBI	990	
TEWAPLD_XVERSION	920	
TEWAPLD_XWORKAREA_ADDR	9A4	
TEWAPLDL	9A8	A0

## \$TEXWORK information

### \$TEXWORK heading information

**Common name:** JES2 Time Excession Monitor PCE Work Area  
**Macro ID:** \$TEXWORK  
**DSECT name:** PCE (\$TEXWORK is part of the PCE DSECT)



<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'PCE ' Offset: PCEEYE-PCE Length: 4
<b>Storage attributes:</b>	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
<b>Size:</b>	See symbol TEXPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
<b>Created by:</b>	See \$PCE
<b>Pointed to by:</b>	The \$TXIMPCE field of the \$HCT data area See \$PCE for other pointer fields that apply to all PCE types.
<b>Serialization:</b>	Normal PCE dispatch serialization
<b>Function:</b>	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 mapping

Table 271. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	BITSTRING	64	TEXWORK	Work area
400	(190)	DBL WORD	8	(0)	Force double-word alignment
400	(190)	X'40'	0	TEXPCEWS	"*-PCEWORK" Length of work area

## \$TGB information

### \$TGB heading information

<b>Common name:</b>	Track Group Block
<b>Macro ID:</b>	\$TGB
<b>DSECT name:</b>	TGB
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	None if BLOB TGBS \$BTE IF BADTRACK BTE



<b>Storage attributes:</b>	Subpool: 241
	Key: 1
	Residency: Virtual and real storage are anywhere (above or below 16M) in common storage (CSA).
<b>Size:</b>	See BTESIZE for BADTRACK BTEs. See TGBBSIZE for BLOB TGBs.
<b>Created by:</b>	TQUEBTG in the event of a SPOOL I/O error in the user's address space or in an FSS address space or in a JES2 subtask. \$IOERRTN in the event of a SPOOL I/O error in the JES2 main task. JES2 initialization for BADTRACK initialization statement processing.
<b>Pointed to by:</b>	CCTIOERR field of the \$HCCT data area BTENEXT field of the \$BTE data area if on the CCTIOERR queue CCTTGBF field of the \$HCCT data area for TGBs in the BLOB CCTTGBL field of the \$HCCT data area for TGBs in the BLOB TGBs in the BLOB are contiguous.
<b>Serialization:</b>	Compare and swap is used to queue the BTEs on the CCTIOERR chain. Compare double and swap is used to change the contents of a TGB in the BLOB.
<b>Function:</b>	There is a pool of track group blocks (TGBs) of available space called a BLOB. A track group block represents one track group. The number of TGBs in the BLOB is set and maintained by JES2 (field CKPTGESZ in the checkpoint PCE work area). A TGB may be allocated for a job by selecting a TGB from the BLOB using CDS logic in \$TRACK and \$STRAK. The BLOB is replenished during the checkpoint cycle. BTEs are used for bad track group (BADTRACK) processing. BTENEXT is used to chain the BTEs from \$SPOOLQ for HASPSPOL. BTEs are also used whenever IOS has determined that a volume had an I/O error as a result of losing all paths to the device. The BTE is queued on the \$SPOOLQ just as for bad track group processing, but when it is discovered that the I/O error was the result of an entire volume being inaccessible, the volume will be halted as opposed to just the track group being marked bad.

## \$TGB mapping

Table 272. Structure TGB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TGB	ALLOCATION TRACK GROUP BLK
0	(0)	DBL WORD	8	TGBENTRY(0)	Used to compare and swap next two words
0	(0)	BITSTRING	5	TGBMQT	Allocated MQT
5	(5)	BITSTRING	3	TGBJQEI	Index to JQE for JQESUMSK



Table 272. Structure TGB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
5	(5)	X'0'	0	TGBAVAIL	"0" TGB available
5	(5)	X'FFFFFF'	0	TGBASYS	"-1" TGB allocated
5	(5)	X'FFFFFFE'	0	TGBBKUP	"-2" TGB allocated state not yet recorded on CKPT
5	(5)	X'FFFFFFD'	0	TGBASIG	"-3" TGB allocated state not yet recorded on SPOOL
8	(8)	DBL WORD	8	TGBENTYB(0)	Used to ref next 2 words
8	(8)	BITSTRING	5	TGBMQTB	Backup of Allocated MQT
13	(D)	BITSTRING	3	TGBJQEIB	Backup of Offset to JQE
16	(10)	BITSTRING	16	TGBTTOKN	TCB Token of task in signature record process
16	(10)	X'10'	0	TGBASTKN	"TGBTTOKN,8" Address space token of AS in signature rcd process
32	(20)	ADDRESS	8	TGBRGDC	Rsrc grp RGDC for the TG
40	(28)	DBL WORD	8	(0)	Ensure alignment
40	(28)	X'28'	0	TGBBSIZE	"*-TGB" TGB DSECT LGTH FOR BLOB ENTRIES

Table 273. Structure BTE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	BTE	Bad track element
0	(0)	CHARACTER	4	BTEID	Eye catcher
4	(4)	ADDRESS	4	BTENEXT	Address of next BTE on the Bad Track queue
8	(8)	BITSTRING	6	BTEMQTR	MQTR of block in error
14	(E)	BITSTRING	1	BTEFLAG1	Flags
		1... ....		BTE1CC3	"B'10000000'" IOS has discovered that the extent has no paths
		.1.. ....		BTE1MQER	"B'01000000'" JES2 main task queued this BTE
		..1. ....		BTE1UQER	"B'00100000'" User environment task queued this BTE
15	(F)	BITSTRING	1		Reserved for future use
16	(10)	SIGNED	2	BTEASID	ASID of failing task
18	(12)	BITSTRING	6		Reserved for future use
24	(18)	DBL WORD	8	(0)	Ensure alignment
24	(18)	X'18'	0	BTESIZE	"*-BTE" BTE length for bad track

Table 274. Structure TGR

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TGR	, Track Group record entry
0	(0)	X'2'	0	TGRVERS	"TGRVZ22" Current TGR version number
0	(0)	X'2'	0	TGRVZ22	"2" z22 mode version number
0	(0)	BITSTRING	5	TGRMQTR	First MQTR in entry

Table 275. Cross Reference for \$TGB

Name	Offset	Hex	Tag
BTE	0		



Table 275. Cross Reference for \$TGB (continued)

Name	Offset	Hex Tag
BTEASID	10	
BTEFLAG1	E	
BTEID	0	5BC2E3C5
BTEMQTR	8	
BTENEXT	4	
BTESIZE	18	18
BTE1CC3	E	80
BTE1MQER	E	40
BTE1UQER	E	20
TGB	0	
TGBASIG	5	FFFFFFD
TGBASTKN	10	10
TGBASYS	5	FFFFFFF
TGBAVAIL	5	0
TGBBKUP	5	FFFFFE
TGBBSIZE	28	28
TGBENTRY	0	
TGBENTYB	8	
TGBJQEI	5	
TGBJQEIB	D	
TGBMQT	0	
TGBMQTB	8	
TGBRGDC	20	
TGBTTOKN	10	
TGR	0	
TGRMQTR	0	
TGRVERS	0	2
TGRVZ22	0	2

## \$TIMWORK information

### \$TIMWORK heading information

<b>Common name:</b>	JES2 STIMER/TTIMER PCE Work Area
<b>Macro ID:</b>	\$TIMWORK
<b>DSECT name:</b>	PCE (\$TIMWORK is part of the PCE DSECT)
<b>Owning component:</b>	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 mapping

Table 276. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	BITSTRING	24	TIMXECB	Timer XECB
360	(168)	DBL WORD	8	(0)	Force double-word alignment
360	(168)	X'18'	0	TIMPCEWS	"*-PCEWORK" Length of work area

## \$TLGWORK information

### \$TLGWORK heading information

**Common name:** JES2 Event Trace Log PCE Work Area

**Macro ID:** \$TLGWORK

**DSECT name:** PCE (\$TLGWORK is part of the PCE DSECT)

**Owning component:** JES2 (SC1BH)

**Eye-catcher ID:** 'PCE '  
Offset: PCEEYE-PCE  
Length: 4



<b>Storage attributes:</b>	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
<b>Size:</b>	See symbol TLGPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
<b>Created by:</b>	See \$PCE
<b>Pointed to by:</b>	\$TRCPCE field of the \$HCT data area See \$PCE for other pointer fields that apply to all PCE types.
<b>Serialization:</b>	Normal PCE dispatch serialization
<b>Function:</b>	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 mapping

Table 277. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	BITSTRING	16	TLGMAP	Work area for TRACE ID 20
352	(160)	ADDRESS	4	TLGJCT	ADDRESS OF JCT FOR \$TRCLOG
356	(164)	ADDRESS	4	TLGIOT	Address of current IOT
360	(168)	ADDRESS	4	TLGBSAVE	ADDRESS OF CURRENT RCB
364	(16C)	ADDRESS	4	TLGBUFAD	ADDRESS OF CURRENT OUTPUT BUFFER
368	(170)	ADDRESS	4	TLGIOTAD	ADDRESS OF CURRENT SPIN IOT
372	(174)	BITSTRING	6	TLGIOTMQ	MQTR of current SPIN IOT
378	(17A)	BITSTRING	2		Reserved
380	(17C)	SIGNED	4	TLGWORK1	WORK AREA
384	(180)	SIGNED	4	TLGWORK2	WORK AREA
392	(188)	DBL WORD	8	TLGWORK3	WORK AREA
404	(194)	ADDRESS	4	TLGTTTP	ADDRESS OF CURRENT TRACE TABLE
408	(198)	ADDRESS	4	TLGTTESV	ADDRESS OF CURRENT TTE ENTRY
412	(19C)	ADDRESS	4	TLGVFPFX	ADDRESS OF PREFIX OF CURRENT VARIABLE FORMAT FIELD
416	(1A0)	SIGNED	4	(0)	FULLWORD ALIGN NEXT FIELD
416	(1A0)	SIGNED	8	TLGMINOR(0)	RNAME--FULLWORD ALIGN, LENTH 8
416	(1A0)	CHARACTER	4	TLGREYE	EYECATCHER IN RNAME
420	(1A4)	ADDRESS	4	TLGRNAME	TABLE ADDRESS IN RNAME
RESERVE ENOUGH ROOM FOR THE ENQ AND DEQ PARAMETER LISTS TO COVER ALL OPTIONS.					
424	(1A8)	SIGNED	4	TLGENQST(0)	TRUE START OF ENQ LIST



Table 277. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
MACRO-DATE = 03/16/15					
424	(1A8)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
424	(1A8)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
428	(1AC)	ADDRESS	4		PREFIX - ECB ADDRESS
428	(1AC)	X'1B0'	0	TLGENQPL	"*" X02113
432	(1B0)	ADDRESS	1		PELLAST flag byte. X02113
433	(1B1)	ADDRESS	1		PELMILEN - RNAME length.
434	(1B2)	BITSTRING	1		
PELFLAG - flag byte 2.					
435	(1B3)	ADDRESS	1		PELRET - return code byte.
436	(1B4)	ADDRESS	4		QNAME ADDRESS
440	(1B8)	ADDRESS	4		RNAME ADDRESS
440	(1B8)	X'1A8'	0	TLGENQUE	"TLGENQST,*-TLGENQST" Used only in IPCS
444	(1BC)	SIGNED	4	TLGDEQST(0)	TRUE START OF DEQ LIST
MACRO-DATE = 03/16/2015					
444	(1BC)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
444	(1BC)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
444	(1BC)	X'1C0'	0	TLGDEQPL	"*" X02113
448	(1C0)	ADDRESS	1		PELLAST flag byte. X02113
449	(1C1)	ADDRESS	1		PELMILEN - RNAME length.
450	(1C2)	BITSTRING	1		
PELFLAG - flag byte 2.					
451	(1C3)	ADDRESS	1		PELRET - return code byte.
452	(1C4)	ADDRESS	4		QNAME ADDRESS
456	(1C8)	ADDRESS	4		RNAME ADDRESS
456	(1C8)	X'1BC'	0	TLGDEQUE	"TLGDEQST,*-TLGDEQST" Used only in IPCS
460	(1CC)	SIGNED	4	TLGRECCT	TRACE LOG DATA SET RECORD COUNT
464	(1D0)	BITSTRING	12	TLGTQE	TQE FOR TRACE TABLE TRUNCATION
476	(1DC)	SIGNED	2	TLGVFCNT	NUMBER OF VARIABLE FIELDS LEFT
478	(1DE)	BITSTRING	1	TLGSAVID	FOR SAVING RECORD TYPE ID
479	(1DF)	BITSTRING	1	TLGFLAG1	FLAGS
480	(1E0)	SIGNED	4	(0)	FULLWORK ALIGN XECB
480	(1E0)	BITSTRING	1	TLGXECB	XECB FOR EXCLUSIVE ENQ ECB
480	(1E0)	X'A8'	0	TLGPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA
TLGFLAG1					
	1... ....			TLG1OPEN	"B'10000000'" TRACE LOG IS OPEN
	.1.. ....			TLG1ERR	"B'01000000'" ERROR PRODUCING TRACE LOG
	..1. ....			TLG1TRUN	"B'00100000'" ID=20 TRUNCATE CURRENT LINE



Table 277. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
	...1 ....			TLG1HEAD	"B'00010000'" Currently producing header

Table 278. Cross Reference for \$TLGWORK

Name	Offset	Hex	Tag
PCE	0		
TLGBSAVE	168		
TLGBUFAD	16C		
TLGDEQPL	1BC		1C0
TLGDEQST	1BC		
TLGDEQUE	1C8		1BC
TLGENQPL	1AC		1B0
TLGENQST	1A8		
TLGENQUE	1B8		1A8
TLGFLAG1	1DF		
TLGIOT	164		
TLGIOTAD	170		
TLGIOTMQ	174		
TLGJCT	160		
TLGMAP	150		
TLGMINOR	1A0		
TLGPCEWS	1E0		A8
TLGRECCT	1CC		
TLGREYE	1A0		
TLGRNAME	1A4		
TLGSAVID	1DE		
TLGTQE	1D0		
TLGTTESV	198		
TLGTTP	194		
TLGVFCNT	1DC		
TLGVFPFX	19C		
TLGWORK1	17C		
TLGWORK2	180		
TLGWORK3	188		
TLGXECB	1E0		
TLG1ERR	1E0		40
TLG1HEAD	1E0		10
TLG1OPEN	1E0		80
TLG1TRUN	1E0		20



## \$TQE information

---

### \$TQE programming interface information

\$TQE is a programming interface.

### \$TQE heading information

<b>Common name:</b>	TQE - HASP TIMER QUEUE ELEMENT
<b>Macro ID:</b>	\$TQE
<b>DSECT name:</b>	NONE
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	None
<b>Storage attributes:</b>	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.
<b>Size:</b>	See TQLENG
<b>Created by:</b>	\$PCEDYN services or HASPIRMA, depending on which control block the \$TQE is imbedded in.
<b>Pointed to by:</b>	\$TQEQUE field of the \$HCT data area TQETQE field of the \$TQE data area
<b>Serialization:</b>	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
DRMTQE	\$DRPWORK
DRTTQE	\$DRTWORK
FSWTQE	\$FSSWORK
RESTQE	\$RESWORK
MLMTQE	\$MLMWORK
NRMTQE	\$NRMWORK
SJBSTQE	\$SJB
TLGTQE	\$TLGWORK
WRMTQE	\$WARNWRK
XFMSTQE	\$XFMWORK
SRWTQE	\$SFRWORK
SNWTQE	\$SNFWORK

The second field mapped out by the TQE (TQETIME) is the interval to be used. If TQETIME is positive, it is assumed to be in seconds. If it is negative, it is assumed to be the twos complement of hundredths of a second.

The third field mapped out by the TQE (TQEPCE) 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 mapping

Table 279. Structure

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		

Table 280. Structure \$TQE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	\$TQE	, Temp DSECT

```
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
```

```
$Z22LACT=CKPTUNE HJE77A0 140120 ALP: Ckpt tuning stage 2
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
```

0	(0)	X'0'	0	TQETQE	"0,4" ADDR OF NEXT TIMER QUEUE ELMT
0	(0)	X'4'	0	TQETIME	"4,4" SPECIFIED INTERVAL(TIMER UNITS) NOTE THAT THIS SHOULD BE RESET BEFORE EACH CALL TO \$STIMER
0	(0)	X'0'	0	TQEPOST	"0,8" Time TIMER PCE posted TQE (set TQE1TPOP)



Table 280. Structure \$TQE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	X'8'	0	TQEPCE	"8,4" FLAG BYTE AND PCE ADDR TO \$POST
0	(0)	X'8'	0	TQEFLAG1	"TQEPCE,1" OFFSET TO FLAG BIT IN TQEPCE
0	(0)	X'C'	0	TQELENG	"L'TQETQE+L'TQETIME+L'TQEPCE" LENGTH OF THE TQE
Special form of TQE uses two additional fields. This form of TQE should be double-word aligned.					
0	(0)	X'C'	0	TQEINTL	"12,4" Original length of interval
0	(0)	X'10'	0	TQESTRT	"16,8" Timestamp of interval start
0	(0)	X'18'	0	TQELENG2	"TQELENG+L'TQEINTL+L'TQESTRT" Length of special TQE
TQEFLAG1 BIT DEFINITIONS					
1... ....				TQE1TPOP	"B'10000000'" TIMER POP
EQU B'01111111' Cannot be used					

Table 281. Cross Reference for \$TQE

Name	Offset	Hex Tag
\$TQE	0	
TQEFLAG1	0	8
TQEINTL	0	C
TQELENG	0	C
TQELENG2	0	18
TQEPCE	0	8
TQEPOST	0	0
TQESTRT	0	10
TQETIME	0	4
TQETQE	0	0
TQE1TPOP	0	80

## \$TRCA information

### \$TRCA programming interface information

\$TRCA is a programming interface.

### \$TRCA heading information

<b>Common name:</b>	Termination recovery control area
<b>Macro ID:</b>	\$TRCA
<b>DSECT name:</b>	TRCA
<b>Owning component:</b>	JES2 (SC1BH)



<b>Eye-catcher ID:</b>	'\$\$\$\$TRCA' or 'TEMPTRCA' or '\$SUBTRCA' Offset: 0 Length: 8
<b>Storage attributes:</b>	Subpool: any Key: 1 Residency: anywhere
<b>Size:</b>	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.
<b>Created by:</b>	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.'
<b>Pointed to by:</b>	The \$ERRTRCA field of the \$HCT data area points to the TRCA assembled within HASPTERM.
<b>Serialization:</b>	None.
<b>Function:</b>	Provides work areas and communication fields required by \$ABEND, \$PCABEND, \$STABEND and the various recovery analysis routines.

## \$TRCA mapping

Table 282. Structure TRCA

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TRCA	
0	(0)	CHARACTER	8		TRCA identifier
8	(8)	BITSTRING	1	TRCAFLAG	
		1... ....		TRCANOPC	"X'80'" \$CURPCE = 0 OR PROCESSOR NOT ACTUALLY IN CONTROL --- (SEE CODE AND ESPECIALLY THE NOTE IN ABNDCKRP REGARDING THE VALIDITY OF THIS BIT WHEN NO SDWA)
		.1.. ....		TRCAOREC	"X'40'" OPR AUTHORIZED RECOVERY
		..1. ....		TRCAODMP	"X'20'" OPR AUTHORIZED (DID NOT SUPPRESS) DUMP (HASP070)
		...1 ....		TRCATERM	"X'10'" RECOVERY NOT POSSIBLE
		.... 1...		TRCAABND	"X'08'" \$ABEND IN CONTROL
		.... .1..		TRCARTRY	"X'04'" \$RETRY IN CONTROL
		.... ..1.		TRCAEEIU	"X'02'" EMERGENCY ERA IN USE
		.... ...1		TRCASUBT	"X'01'" SUBTASK (\$STABEND) TRCA
9	(9)	BITSTRING	1	TRCAFLG2	HEXIT FLAG BYTE
		1... ....		TRCAPJS2	"B'10000000'" \$PJES2
		.1.. ....		TRCAINIT	"B'01000000'" EXIT FROM INITIALIZATION



Table 282. Structure TRCA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1. ....		TRCAEXIT	"B'00100000'" OPR REPLIED 'EXIT' TO HASP098
		...1 ....		TRCAINTA	"B'00010000'" ABEND UNDER INIT PCE
		.... 1...		TRCA26EX	"B'00001000'" EXIT 26 ROUTINE INVOKED
		.... .1..		TRCA26AB	"B'00000100'" EXIT 26 ROUTINE ABENDED
		.... ..1.		TRCA2ARR	"B'00000010'" Processing in an ARR
		.... ...1		TRCA2PRC	"B'00000001'" JES2 percolated
10	(A)	BITSTRING	1	TRCAFLG3	Third flag byte
		1... ....		TRCA3CFT	"B'10000000'" Cleaning up checkpoint
		.1.. ....		TRCA3RMT	"B'01000000'" REMOTE ind. for SDUMP
		..1. ....		TRCA3AUT	"B'00100000'" Auto reply to \$HASP098
		...1 ....		TRCA3STR	"B'00010000'" STRLIST exists
11	(B)	BITSTRING	1	TRCASNPF	FLAG BYTE USED BY ABNDSNAP
		1... ....		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)	ADDRESS	4	TRCAREMO	Address of remote table
36	(24)	ADDRESS	4	TRCAJOBL	Address of joblist table
40	(28)	CHARACTER	144	TRCASTRL	Area for STRLIST on SDUMPX
184	(B8)	SIGNED	4	TRCACNCT	CONNECT ID FOR MLWTO
188	(BC)	SIGNED	4	TRCAMSGW	
188	(BC)	SIGNED	4	(0)	
188	(BC)	ADDRESS	2		TEXT LENGTH
190	(BE)	BITSTRING	2		MCSFLAGS
192	(C0)	CHARACTER	53		
263	(107)	BITSTRING	2		DESCRIPTOR CODES
265	(109)	BITSTRING	2		ROUTING CODES
267	(10B)	BITSTRING	2		LINE TYPE
269	(10D)	BITSTRING	1		AREA ID
270	(10E)	ADDRESS	1		TOTAL NUMBER OF LINES X02007
188	(BC)	BITSTRING	1		Space for dump title length
189	(BD)	CHARACTER	100		and title text
336	(150)	SIGNED	4	TRCAMODW(0)	MODMAP-STYLE ENTRY FOR ERMODULE
352	(160)	SIGNED	4	TRCARIPL	COUNT OF OUTSTANDING ERRORS REQUIRING RE-IPL- INCREMENTED IN \$ABEND, DECREMENTED IN \$RETRY WHEN RECOVERY HAS BEEN SUCCESSFUL. ANY TERMINATION WHILE NON-ZERO CAUSES SETTING OF CCTSTRPL IN CCTSTUS IN HCCT
356	(164)	SIGNED	4		Reserved
360	(168)	SIGNED	8	TRCAREGS(6)	R13-R2 on entry to \$ABEND
360	(168)	X'170'	0	TRCARG6E	"TRCAREGS+1*8,8" 64 bit R14 in TRCAREGS
360	(168)	X'174'	0	TRCAREGE	"TRCARG6E+4,4" 31 bit R14 slot
360	(168)	X'180'	0	TRCARG60	"TRCAREGS+3*8,8" 64 bit R0 in TRCAREGS
360	(168)	X'184'	0	TRCAREG0	"TRCARG60+4,4" 31 bit R0 slot



Table 282. Structure TRCA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
360	(168)	X'188'	0	TRCARG61	"TRCAREGS+4*8,8" 64 bit R1 in TRCAREGS
360	(168)	X'18C'	0	TRCAREG1	"TRCARG61+4,4" 31 bit R1 slot
360	(168)	X'190'	0	TRCARG62	"TRCAREGS+5*8,8" 64 bit R2 in TRCAREGS
360	(168)	X'194'	0	TRCAREG2	"TRCARG62+4,4" 31 bit R2 slot
408	(198)	ADDRESS	4	TRCALDAD	Address of LISTD storage
412	(19C)	ADDRESS	4	TRCAARMT	Address of REMOTE storage
416	(1A0)	SIGNED	4	TRCASDMP(0)	SDUMP PARAMETER LIST
416	(1A0)	ADDRESS	1		FLAG BYTE
417	(1A1)	ADDRESS	1		FLAG BYTE
418	(1A2)	ADDRESS	1		FLAG BYTE
419	(1A3)	ADDRESS	1		FLAG BYTE
420	(1A4)	ADDRESS	4		ADDRESS OF DCB
424	(1A8)	ADDRESS	4		ADDRESS OF STORAGE LIST
428	(1AC)	ADDRESS	4		ADDRESS OF USER DATA
432	(1B0)	ADDRESS	4		ADDRESS OF ECB/SRB
436	(1B4)	ADDRESS	2		CURRENT ASID
438	(1B6)	ADDRESS	2		OTHER ASID
440	(1B8)	ADDRESS	4		ADDRESS OF ASID LIST
444	(1BC)	ADDRESS	4		ADDRESS OF SUMLIST/SUMLSTA LIST
448	(1C0)	ADDRESS	4		RESERVED
452	(1C4)	ADDRESS	4		RESERVED
456	(1C8)	ADDRESS	1		FLAG BYTE
457	(1C9)	ADDRESS	1		CONTROL FLAG BYTE
458	(1CA)	ADDRESS	1		TYPE FLAG BYTE
459	(1CB)	ADDRESS	1		VERSION
460	(1CC)	ADDRESS	1		EXIT FLAG BYTE
461	(1CD)	ADDRESS	1		EXIT FLAG BYTE
462	(1CE)	ADDRESS	1		SDATA OPTIONS
463	(1CF)	ADDRESS	1		RESERVED SDATA OPTIONS
464	(1D0)	ADDRESS	4		ADDRESS OF SUBPLST
468	(1D4)	ADDRESS	4		ADDRESS OF KEYLIST
472	(1D8)	ADDRESS	4		RESERVED
476	(1DC)	ADDRESS	4		ALET OF DCB PARAMETER
480	(1E0)	ADDRESS	4		ALET OF STORAGE PARAM
484	(1E4)	ADDRESS	4		ALET OF HDR PARAMETER
488	(1E8)	ADDRESS	4		ALET OF ASIDLST PARAM
492	(1EC)	ADDRESS	4		ALET OF SUMLIST PARAM
496	(1F0)	ADDRESS	4		ALET OF SUBPLST PARAM
500	(1F4)	ADDRESS	4		ALET OF KEYLIST PARAM
504	(1F8)	ADDRESS	4		ADDRESS OF LISTD
508	(1FC)	ADDRESS	4		No ALET for LISTD/LIST64
512	(200)	ADDRESS	4		No SUMLSTL or SUMLIST64
516	(204)	ADDRESS	4		ALET SUMLSTL or SUMLIST64
520	(208)	ADDRESS	4		No address for PSWREGS



Table 282. Structure TRCA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
524	(20C)	ADDRESS	4		No Alet for PSWREGS
528	(210)	ADDRESS	4		ADDRESS OF SYMREC
532	(214)	ADDRESS	4		ALET OF SYMREC
536	(218)	ADDRESS	4		ADDRESS OF ID
540	(21C)	ADDRESS	4		ALET OF ID
544	(220)	ADDRESS	4		ADDRESS FOR STRLIST
548	(224)	ADDRESS	4		ALET OF STRLIST PARAM
552	(228)	ADDRESS	4		ADDRESS FOR INTOKEN
556	(22C)	ADDRESS	4		ALET OF INTOKEN PARAM
560	(230)	ADDRESS	4		ADDRESS FOR REMOTE
564	(234)	ADDRESS	4		ALET OF REMOTE PARAM
568	(238)	ADDRESS	4		ADDRESS FOR PROBDISC
572	(23C)	ADDRESS	4		ALET OF PROBDISC PARAM
576	(240)	ADDRESS	4		ADDRESS FOR JOBLIST
580	(244)	ADDRESS	4		ALET OF JOBLIST PARAM
584	(248)	ADDRESS	4		ADDRESS FOR DSPLIST
588	(24C)	ADDRESS	4		ALET OF DSPLIST PARAM
592	(250)	ADDRESS	1		SDUMP Control Flag values
593	(251)	BITSTRING	3		RESERVED
596	(254)	ADDRESS	4		ADDRESS FOR UTOKEN
596	(254)	X'B8'	0	TRCASDML	"*-TRCASDMP" Length of SDUMPX MF=L
600	(258)	DBL WORD	8	(0)	
600	(258)	X'258'	0	TRCADTEL	"*-TRCA" Length of DTE TRCAs
All fields in the TRCA used by the ABNDSNAP service and services called by ABNDSNAP must be defined before the TRCADTEL equate. Fields used only in TRCAs in the NETSRV address space					
600	(258)	ADDRESS	4	TRCANSST	NSST address
604	(25C)	ADDRESS	4	TRCANSCT	NSCT address
608	(260)	ADDRESS	4	TRCANSWE	NSWE address
612	(264)	ADDRESS	4	TRCAFINs	Failing instruction addr
616	(268)	ADDRESS	4	TRCARGRB	RB containing regs
624	(270)	DBL WORD	8	(0)	
624	(270)	X'270'	0	TRCANSVL	"*-TRCA"
Fields used only in TRCAs in the JES2 main task					
600	(258)	ADDRESS	4	TRCA72ID	072 DOM ID
604	(25C)	ADDRESS	4	TRCATOKN	TOKEN FOR EXIT 26 ESTAE
608	(260)	SIGNED	4	TRCAECB	ECB FOR WTORs, SDUMPS, ETC
612	(264)	BITSTRING	336	TRCAPSV	PCE STYLE SAVE AREA
948	(3B4)	ADDRESS	4	TRCADTE	CURRENT DTE ADDRESS
952	(3B8)	DBL WORD	8	TRCA26WK	WORK AREA FOR EXIT26
960	(3C0)	DBL WORD	8	TRCASIDS(0)	ASID LIST FOR \$SDUMP
960	(3C0)	X'6'	0	TRCASDNO	"(*-TRCASIDS)/2" Number of ASIDs allowed



Table 282. Structure TRCA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
972	(3CC)	CHARACTER	4	TRCAOPT	TERMINATION OPTION AND SDUMP
972	(3CC)	X'3D0'	0	TRCADMPT	"TRCAOPT+L'TRCAOPT,101,C'C'" TITLE, KEEP TOGETHER
1080	(438)	SIGNED	4	TRCARRGS(16)	RESUMPTION REGS MOVED TO HERE
1080	(438)	X'438'	0	TRCARRG0	"TRCARRGS,4" JUST PRIOR TO FREEING OF ERA
1080	(438)	X'468'	0	TRCARRGC	"TRCARRGS+(R12*4),4"
1080	(438)	X'470'	0	TRCARRGE	"TRCARRGS+(R14*4),4"
1080	(438)	X'474'	0	TRCARRGF	"TRCARRGS+(R15*4),4"
1144	(478)	SIGNED	4	TRCAHRGS(16)	Resumption high reg halves
1144	(478)	X'4B4'	0	TRCAHRGF	"TRCAHRGS+(R15*4),4" High half of R15
1208	(4B8)	SIGNED	4	TRCAARGS(16)	RESUMPTION ARS MOVED HERE
1272	(4F8)	BITSTRING	1	TRCAMODE	MODE (MOVED FROM PREMODE)
1273	(4F9)	BITSTRING	3		Reserveds
1276	(4FC)	SIGNED	4	TRCASDWK	WORK AREA FOR \$SDUMP MSGS,TITLE
1284	(504)	BITSTRING	508	TRCAEERA	EMERGENCY ERA
1792	(700)	SIGNED	4	TRCASAVX(0)	PCE STYLE SAVE AREA FOR EXIT 26
2128	(850)	SIGNED	4	TRCAPPL(0)	PURGE PARAMETER LIST
2144	(860)	SIGNED	4	TRCASMFB(0)	EXIT SMF 'BUFFER'
2180	(884)	CHARACTER	6	TRCACODE	TERMINATION CODE FOR TRACE ID=7
2186	(88A)	BITSTRING	4	TRCAMAFF	Mask of systems to dump
2190	(88E)	CHARACTER	8	TRCARCV	RECVOPTS copied from HCT
2200	(898)	SIGNED	4		Reserved
2208	(8A0)	DBL WORD	8	(0)	ALIGN END OF TRCA
2208	(8A0)	X'8A0'	0	TRCALENG	"*-TRCA" LENGTH OF TRCA EQU

Table 283. Structure TRCALSTD

Offset Dec	Offset Hex	Type	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

Table 284. Cross Reference for \$TRCA

Name	Offset	Hex Tag
TRCA	0	
TRCAABND	8	8
TRCAARGS	4B8	
TRCAARMT	19C	
TRCACNCT	B8	
TRCACODE	884	



Table 284. Cross Reference for \$TRCA (continued)

Name	Offset	Hex Tag
TRCADMPT	3CC	3D0
TRCADTE	3B4	
TRCADTEL	258	258
TRCAECB	260	
TRCAEEIU	8	2
TRCAEERA	504	
TRCAERA	C	
TRCAEXIT	9	20
TRCAFINS	264	
TRCAFLAG	8	
TRCAFLG2	9	
TRCAFLG3	A	
TRCAHCPY	B	80
TRCAHRGF	478	4B4
TRCAHRGS	478	
TRCAINIT	9	40
TRCAINTA	9	10
TRCAJOBL	24	
TRCALDAD	198	
TRCALENG	8A0	8A0
TRCALLEN	0	
TRCALSTD	0	
TRCALSZ	14	14
TRCAMAFF	88A	
TRCAMODE	4F8	
TRCAMODW	150	
TRCAMSGW	BC	
TRCANOPC	8	80
TRCANSCT	25C	
TRCANSST	258	
TRCANSVL	270	270
TRCANSWE	260	
TRCAODMP	8	20
TRCAOPT	3CC	
TRCAOREC	8	40
TRCAPJS2	9	80
TRCAPPL	850	
TRCAPSV	264	
TRCARCV	88E	



Table 284. Cross Reference for \$TRCA (continued)

Name	Offset	Hex Tag
TRCAREGE	168	174
TRCAREGS	168	
TRCAREG0	168	184
TRCAREG1	168	18C
TRCAREG2	168	194
TRCAREMO	20	
TRCARGRB	268	
TRCARG6E	168	170
TRCARG60	168	180
TRCARG61	168	188
TRCARG62	168	190
TRCARIPL	160	
TRCARNUM	C	
TRCARRGC	438	468
TRCARRGE	438	470
TRCARRGF	438	474
TRCARRGS	438	
TRCARRG0	438	438
TRCARTRY	8	4
TRCAR1E	14	
TRCAR1S	10	
TRCASAVX	700	
TRCASDML	254	B8
TRCASDMP	1A0	
TRCASDNO	3C0	6
TRCASDWK	4FC	
TRCASIDS	3C0	
TRCASMFB	860	
TRCASNPF	B	
TRCASTKN	4	
TRCASTRL	28	
TRCASUBT	8	1
TRCATERM	8	10
TRCATOKN	25C	
TRCAWORK	10	
TRCA2ARR	9	2
TRCA2PRC	9	1
TRCA26AB	9	4
TRCA26EX	9	8



Table 284. Cross Reference for \$TRCA (continued)

Name	Offset	Hex Tag
TRCA26WK	3B8	
TRCA3AUT	A	20
TRCA3CFT	A	80
TRCA3RMT	A	40
TRCA3STR	A	10
TRCA72ID	258	

## \$TRE information

### \$TRE programming interface information

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

- TRERB

### \$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:** TRELEN

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

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

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



**Function:**

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

**\$TRE mapping**

Table 285. Structure TRE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TRE	BEGINNING OF TRE DSECT
0	(0)	CHARACTER	4	TREID	EYECATCHER OF TRE
4	(4)	ADDRESS	1	TREVRSN	VERSION FIELD OF THE TRE BLOCK
4	(4)	X'4'	0	TREVRNUM	"4" Current version of TRE
5	(5)	BITSTRING	1	TRECKEY	Original caller's PSWBYTE1 (KEY and PROB bits)
6	(6)	SIGNED	2	TREFUNC	Original caller's SSOBFUNC (Zero if not SSI TRE)
6	(6)	BITSTRING	0	TREFINT	"X'8000'" Internal function ind
6	(6)	X'8001'	0	TREFIRDR	"TREFINT+1" Internal reader function
8	(8)	ADDRESS	4	TREBRNCH	ADDRESS OF NEXT TRE ON CHAIN
12	(C)	ADDRESS	4	TRETCB	ADDRESS OF CALLER'S TCB or x'FFFFFFFF' if an SRB
16	(10)	ADDRESS	4	TRERB	ADDRESS OF TCB'S ACTIVE RB
20	(14)	ADDRESS	4	TRECSAVE	ADDRESS OF CALLER'S SAVE AREA
24	(18)	ADDRESS	4	TREHCCT	Address of HCCT
28	(1C)	ADDRESS	4	TRESSIBP	Address of \$SSIBEGN parms
32	(20)	ADDRESS	4	TRETRXCR	ADDRESS OF MOST RECENT TRX
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.					
36	(24)	ADDRESS	4	TRERSAVE	ADDR OF MOST RECENT SAVE AREA
40	(28)	ADDRESS	4	TRESJBLK	SJB ADDR (IF LOCKED BY TASK)
44	(2C)	ADDRESS	4	TRECPool	\$GETHP CHAINING FIELD
48	(30)	ADDRESS	4	TREKEYSV	STORAGE KEY, XRT SAVE AREA, USED BY EXIT EFFECTOR, AND TRACE
52	(34)	ADDRESS	4	TREUSERA	RESERVED FOR USER
56	(38)	ADDRESS	4	TREUSERB	RESERVED FOR USER
60	(3C)	BITSTRING	1	TREUSECT	USE COUNT FOR \$TRACK ENTRY
61	(3D)	BITSTRING	1	TREFLAG3	Status flag byte 3
	1... ....			TRE3JSLR	"B'10000000'" JESLOG ENQ requested
	.1.. ....			TRE3JESL	"B'01000000'" JESLOG ENQ active
	..1. ....			TRE3SJBL	"B'00100000'" SJB lock inherited from higher level SSI
	...1 ....			TRE3STAX	"B'00010000'" STAX DEFER=YES done
	.... 1...			TRE3SARR	"B'00001000'" SSI covered by an ARR
	.... .1..			TRE3ESTA	"B'00000100'" ESTAE is established
	.... ..1.			TRE3UANY	"B'00000010'" Create by (USER,ANY) save



Table 285. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ...1		TRE3PERC	"B'00000001'" ABEND percolation occurred
62	(3E)	BITSTRING	1	TREFLAG4	Status flag byte 4
		1... ....		TRE4TRNQ	"B'10000000'" Attempting to get trace ENQ
		.1.. ....		TRE4ENQH	"B'01000000'" Trace table ENQ held by \$TRACER routine
		..1. ....		TRE4WPUR	"B'00100000'" Purge WQE when finished
		...1 ....		TRE4WSPN	"B'00010000'" JESLOG spin required
		.... 1...		TRE4BEWT	"B'00001000'" WTO SSI process BEWTO
		.... .1..		TRE4SMMSG	"B'00000100'" SYSMMSG ENQ held
		.... ..1.		TRE4SIRB	"B'00000010'" IRB blocked for SYSMMSG ENQ
		.... ...1		TRE4SSJB	"B'00000001'" HFEXSPIN SJB lock obtained
63	(3F)	BITSTRING	1	TRERSV	Reserved field
64	(40)	ADDRESS	4	TREWAITE	POINTER TO A WAIT ELEMENT
68	(44)	BITSTRING	1	TREFLAG1	STATUS/FLAG BYTE 1
		1... ....		TRE1TYPE	"B'10000000'" TRE GOTTEN DURING \$SSIBEGN PROCESSING, FREE DURING \$SSIEND PROCESSING, NOT \$RETURN
		.1.. ....		TRE1TRAC	"B'01000000'" TCB SPECIFIC TRACING BIT
		..1. ....		TRE1SSI	"B'00100000'" TRE REPRESENTS AN SSI FUNCTION
		...1 ....		TRE1SENQ	"B'00010000'" Task issued \$STRAK ENQ
		.... 1...		TRE1TRAK	"B'00001000'" \$STRAK IS IN CONTROL
		.... .1..		TRE1NIRB	"B'00000100'" TCBNOIRB needs to be reset by \$SJBUNLOK
		.... ..1.		TRE1STAX	"B'00000010'" STAX ISSUED BY \$SJBLOCK RTN
		.... ...1		TRE1NDMP	"B'00000001'" RESTORE DUMP=NO ON RETURN TO RTM FROM \$SSI ESTAE
69	(45)	BITSTRING	1	TREFLAG2	STATUS/FLAG BYTE 2
		1... ....		TRE2X33	"B'10000000'" SSIDACLO - EXIT 33-- ISSUE MESSAGE FLAG
		.1.. ....		TRE2CNCL	"B'01000000'" SSIALOC - Internal reader allocation was cancelled
		..1. ....		TRE2LHLD	"B'00100000'" SJBLOCK obtained in WTALOGQ
		...1 ....		TRE2TERM	"B'00010000'" \$ERROR ind to terminate
		.... 1...		TRE2LOG	"B'00001000'" Log the error in LOGREC (via SETRP RECORD=YES)
		.... .1..		TRE2LKUS	"B'00000100'" SJBLOCK was usurped from this RB
		.... ..1.		TRE2LL	"B'00000010'" SJBLOCK got local lock
		.... ...1		TRE2LKST	"B'00000001'" SJBLOCK was stolen from this task
70	(46)	BITSTRING	1	TREUSER1	STATUS/FLAG RESERVED FOR USER
71	(47)	BITSTRING	1	TREX30TP	EXIT 30--TYPE OF DATASET BYTE
72	(48)	SIGNED	4		Reserved
76	(4C)	BITSTRING	1	TRECRTRC	CALLRTM return code (see \$SJBLOCK routine)



Table 285. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
77	(4D)	BITSTRING	1	TREFLAGS	Flag byte 5
		1... ....		TRE5IRDR	"B'10000000'" Set for Internal reader
		.1.. ....		TRE5BLSC	"B'01000000'" Linkage Stack Compaction has been blocked
		..1. ....		TRE5SDBL	"B'00100000'" HFEXSPIN obtained SDB lock
		...1 ....		TRE5SCNT	"B'00010000'" HFEXSPIN set SDBOPNCT TO 1
		.... 1...		TRE5RECT	"B'00001000'" RECOVERY trace done (only set in recovery TRE)
		.... .1..		TRE5NQER	"B'00000100'" ENQ error encountered
78	(4E)	BITSTRING	2		Reserved
<p>The following words are used by WTALOGQ in HASCSIRQ which is invoked under multiple SSIs. The mapping has to be available to all environments, hence the fields are in the TRE common area. TREWTAWA contains the address of the S35D currently being constructed and queued. If the value is zero, there is no current S35D. If positive, then it is the address of a CP00L cell in the WTO data space.</p>					
80	(50)	ADDRESS	4	TREWTAWA	Work area addr for SSIWTA
84	(54)	SIGNED	4		Reserved for future use
88	(58)	SIGNED	4	TREWTASJ	Addr of SJB with log prob.
92	(5C)	SIGNED	4	TRESAVE(0)	SAVE AREA FOR SAVE/RETURN SRVCS
96	(60)	DBL WORD	8	TREDOUB	Generate dword scratch area MCSFLUSH places TOD here
96	(60)	DBL WORD	8	TREBNAME	CATREAD dword scratch area used to store NAME= value for \$DOGBERT call.
ENQ/DEQ PARAMETER LISTS					
268	(10C)	SIGNED	2	TRENQSTR(0)	START OF THE ENQ/DEQ PARM LISTS
MACDATE = 04/03/89					
268	(10C)	SIGNED	4	TRESJBTK(0)	
268	(10C)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
268	(10C)	BITSTRING	8		
276	(114)	SIGNED	4		
280	(118)	ADDRESS	4		
284	(11C)	ADDRESS	4		ASCB ADDRESS (INPUT)
288	(120)	SIGNED	4	(0)	FLAGS (INPUT)
288	(120)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
289	(121)	SIGNED	3		RESERVED
289	(121)	X'18'	0	TRESJBTL	"*-TRESJBTK" Length TCBTOKEN list form
<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>					
MACRO-DATE = 03/16/15					
268	(10C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY



Table 285. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
268	(10C)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
272	(110)	ADDRESS	4		PREFIX - ECB ADDRESS
272	(110)	X'114'	0	TRETRENQ	"*" X02113
276	(114)	ADDRESS	1		PELLAST flag byte. X02113
277	(115)	ADDRESS	1		PELMILEN - RNAME length.
278	(116)	BITSTRING	1		
PELFLAG - flag byte 2.					
279	(117)	ADDRESS	1		PELRET - return code byte.
280	(118)	ADDRESS	4		QNAME ADDRESS
284	(11C)	ADDRESS	4		RNAME ADDRESS
284	(11C)	X'C'	0	TRETRENQ	"*-TRETRENQ" Length of TCB ENQ list form
MACRO-DATE = 03/16/2015					
268	(10C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
268	(10C)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
268	(10C)	X'110'	0	TRETRDEQ	"*" X02113
272	(110)	ADDRESS	1		PELLAST flag byte. X02113
273	(111)	ADDRESS	1		PELMILEN - RNAME length.
274	(112)	BITSTRING	1		
PELFLAG - flag byte 2.					
275	(113)	ADDRESS	1		PELRET - return code byte.
276	(114)	ADDRESS	4		QNAME ADDRESS
280	(118)	ADDRESS	4		RNAME ADDRESS
280	(118)	X'C'	0	TRETRDEL	"*-TRETRDEQ" Length of TCB DEQ list form
292	(124)	SIGNED	4	(0)	FULWORD ALIGN
292	(124)	CHARACTER	8	TRERNAME(0)	RNAME FOR DEQ
292	(124)	CHARACTER	4	TREREYE	EYECATCHER IN RNAME
296	(128)	ADDRESS	4	TRERCUR	TRACE TABLE ADDRESS IN RNAME
268	(10C)	BITSTRING	32	TRESJVQT	SVJ lock query ENQ token (only used by \$SVJTEST)
Dump header value name for RECOVERY. Used only in recovery TRE.					
92	(5C)	BITSTRING	1	TRERECHL	Length of dump header
93	(5D)	CHARACTER	100	TRERECHD	Dump header work area
200	(C8)	DBL WORD	8	TRERECDW	RECOVERY work area
300	(12C)	X'5C'	0	TREGWORK	"TRESAVE,*-TRESAVE" General work area available assuming \$SAVE/\$RETURN and \$ESTAE not used



Table 285. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
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.					
304	(130)	DBL WORD	8	(0)	Align save area
304	(130)	CHARACTER	176	TRECF1SA	SAVE AREA PLUS JES2 EXTENSIONS
308	(134)	CHARACTER	4	TRECF1SV	MAKE IT A C'F1SA' SAVE AREA
480	(1E0)	DBL WORD	8	TRESSIWK(0)	SSI FUNCTION DEPENDENT WORKAREA ORG'D OVER BY MAPPINGS BELOW
The following mapping of the TRESSIWK area is used by the HIRDRPUT routine in HASCPHAM.					
480	(1E0)	ADDRESS	4	TREIRWD	Current/locked IRWD addr
484	(1E4)	BITSTRING	1	TRERPLRQ	RPLREQ value
The following mapping of the TRESSIWK area is used by the SSIWTA routine in HASCSIRQ.					
480	(1E0)	BITSTRING	16		Reserved
496	(1F0)	ADDRESS	4	TREWT35A	Address of S35D in WTO DS
500	(1F4)	ADDRESS	4	TREWTINA	Address of related TINA
504	(1F8)	BITSTRING	8	TREWT35T	Saved value in S35DSTCK
THE FOLLOWING MAPPING OF THE TRESSIWK AREA IS USED BY SSIDACLO.					
480	(1E0)	BITSTRING	1	TREDAXDT	EXIT 33 DATASET TYPE BYTE
481	(1E1)	BITSTRING	1	TREDAXFG	TRE flag byte
		1... ....		TREDAXCC	"B'10000000" Close count adjusted
482	(1E2)	BITSTRING	1	(2)	Not used
484	(1E4)	ADDRESS	4	TREDAXSD	Address of locked SDB
The following mapping of the TRESSIWK area is used by DSOPEN in HASCDSOC called by SSIDAOPN and SSIDARES.					
480	(1E0)	DBL WORD	8	TREDOPRM	Parms passed to DS0IOSP
The following mapping of the TRESSIWK area is used by SSINOUS for Notify SSI support.					
480	(1E0)	ADDRESS	4	TRENUWRK	Addr of NOUSWRK area
484	(1E4)	ADDRESS	4	TRECMB	Addr of CSA CMB created
THE FOLLOWING MAPPING OF THE TRESSIWK AREA IS USED BY SSIALUNA FOR EXIT 48 SUPPORT.					
480	(1E0)	ADDRESS	4	TREDAXPL	CONTAINS POINTER TO XPL
The following mapping of the TRESSIWK area is used by SSISFS for Scheduler Services SSI support.					
480	(1E0)	ADDRESS	4	TRESFWRK	Addr of SFSWORK area
484	(1E4)	ADDRESS	4	TRESFRB	Addr of CSA SFRB created



Table 285. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
The following mapping of the TRESSIWK area is used by the HASCJBST JBSELECT routine for the list form of ESTAE.					
480	(1E0)	SIGNED	4	(0)	
480	(1E0)	ADDRESS	1	TREJBEST	FLAGS FOR ESTAEX
481	(1E1)	ADDRESS	1		SECOND FLAG BYTE
482	(1E2)	ADDRESS	1		THIRD FLAG BYTE
483	(1E3)	ADDRESS	1		VERSION NUMBER
484	(1E4)	ADDRESS	4		TOKEN VALUE AREA
488	(1E8)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
492	(1EC)	ADDRESS	4		ALET FOR PARM LIST
496	(1F0)	ADDRESS	4		EXIT ADDR NOT SPEC
496	(1F0)	X'14'	0	TREJBESL	"*-TREJBEST" Length of ESTAEX parameter list
The following mapping of the TRESSIWK area is used by the SSIPJCL routine in HASCARMS.					
480	(1E0)	ADDRESS	4	TREPJRB	PJCL MTRB
The following mapping of the TRESSIWK area is used by the SSIUALOC routine in HASCDSAL.					
480	(1E0)	SIGNED	4	TREJBKEY	Job key for \$CBIO
The following mapping of the TRESSIWK area is used by the SSISOUT2 routine in HASCSAPI.					
480	(1E0)	SIGNED	4	TRESAPIA	SAPI ALET value for SAPID
484	(1E4)	ADDRESS	4	TRESAPID	SAPI address of SAPID
The following mapping of the TRESSIWK area is used by the CVDEVID routine in HASCISIC.					
480	(1E0)	BITSTRING	3	TREDVID	Device ID in binary
483	(1E3)	BITSTRING	1		Reserved for future use
484	(1E4)	CHARACTER	18	TREDVNAM	Converted name in EBCDIC
The following mapping of the TRESSIWK area is used by the HFEXSPIN routine in HASCDSOC.					
480	(1E0)	ADDRESS	4	TRESPINS	Address of SDB locked by HFEXSPIN (valid only if TRESSDBL on)
484	(1E4)	ADDRESS	4	TRESPNWA	Address of HFEXSPIN work area (mapped by LGWORK)
The following mapping of the TRESSIWK area is used by recovery in HASCLINK.					
480	(1E0)	SIGNED	4	TRERECRA	Holds the retry address
484	(1E4)	SIGNED	4	TRERECSA	Addr of SSI caller's save area
488	(1E8)	SIGNED	4	TRERECFA	Addr of SSI function addr
492	(1EC)	SIGNED	4	TRERECWK	Temp work area for VRADATA
496	(1F0)	SIGNED	2	TRERECFCN	Abending SSI function num
498	(1F2)	SIGNED	2		Reserved



Table 285. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
500	(1F4)	SIGNED	2	TRERECSC	System ABEND code
502	(1F6)	SIGNED	2	TRERECUC	User ABEND code
504	(1F8)	ADDRESS	4	TRERECAD	Failing/ABEND address
508	(1FC)	ADDRESS	4	TRERECLM	Failing LMT address
512	(200)	ADDRESS	4	TRERECCS	Failing MIT/CSECT address
516	(204)	SIGNED	4	(4)	Reserved
516	(204)	X'34'	0	TRESSIWL	"*-TRESSIWL" Size of SSI work area
536	(218)	DBL WORD	8	TRECRITM	Time TRE was claimed (made active)
544	(220)	DBL WORD	8	TREDWORK	Work area
552	(228)	BITSTRING	1	TREFRESA	Basic save area for \$FRETRE
ISGENQ list forms and ENQ TOKENS MACDATE -01/23/13-<2>					
		.... ..1		TREXENQ_XCOND_NO	"X'01'"
		.... ..1.		TREXENQ_XCOND_YES	"X'02'"
		.... ..1		TREXENQ_XREQUEST_OBTAIN	"X'01'"
		.... ..1.		TREXENQ_XREQUEST_CHANGE	"X'02'"
		.... ..11		TREXENQ_XREQUEST_RELEASE	"X'03'"
0	(0)	X'270'	0	M00M1594	"TREXENQ" ++ ISGENQ NAME
624	(270)	DBL WORD	8	TREXENQ(0)	++ ISGENQ PARM LIST
624	(270)	BITSTRING	1	TREXENQ_XVERSION	++ INPUT XVERSION
625	(271)	CHARACTER	1	TREXENQ_XRSV0000	++ RESERVED
626	(272)	BITSTRING	1	TREXENQ_XSCOPE	++ XSCOPE
626	(272)	X'1'	0	TREXENQ_XSCOPE_STEP	"1" ++ XSCOPE.STEP KEYWORD
626	(272)	X'2'	0	TREXENQ_XSCOPE_SYSTEM	"2" ++ XSCOPE.SYSTEM KEYWORD
626	(272)	X'3'	0	TREXENQ_XSCOPE_SYSTEMS	"3" ++ XSCOPE.SYSTEMS KEYWORD
626	(272)	X'3'	0	TREXENQ_XSCOPE_SYSPLEX	"3" ++ XSCOPE.SYSPLEX KEYWORD
627	(273)	BITSTRING	1	TREXENQ_XCONTROL	++ XCONTROL
627	(273)	X'1'	0	TREXENQ_XCONTROL_SHARED	"1" ++ XCONTROL.SHARED KEYWORD
627	(273)	X'2'	0	TREXENQ_XCONTROL_EXCLUSIVE	"2" ++ XCONTROL.EXCLUSIVE KEYWORD
628	(274)	BITSTRING	1	TREXENQ_XFLAGS1	++ FIELD_LABEL
		.1.. ....		TREXENQ_XTEST_YES	"B'01000000'" ++ XTEST.YES KEYWORD
		..1. ....		TREXENQ_XCONTENTIONACT_FAIL	"B'00100000'" ++ XCONTENTIONACT.FAIL KEYWORD
		...1 ....		TREXENQ_XWAITTYPE_ECB	"B'00010000'" ++ XWAITTYPE.ECB KEYWORD
		.... 1...		TREXENQ_XRESLIST_YES	"B'00001000'" ++ XRESLIST.YES KEYWORD
		.... .1..		TREXENQ_XENQMAX_NO	"B'00000100'" ++ XENQMAX.NO KEYWORD
		.... ..1.		TREXENQ_XRNL_NO	"B'00000010'" ++ XRNL.NO KEYWORD
		.... ...1		TREXENQ_XQNAME_DO_NOT_OVERRIDE	"B'00000001'" ++ XQNAME.DO_NOT_OVERRIDE KEYWORD
629	(275)	BITSTRING	1	TREXENQ_XFLAGS2	++ FIELD_LABEL
		1... ....		TREXENQ_XRESERVEVOLUME_YES	"B'10000000'" ++ XRESERVEVOLUME.YES KEYWORD
		.1.. ....		TREXENQ_XSYNCHRES_YES	"B'01000000'" ++ XSYNCHRES.YES KEYWORD



Table 285. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1. ....		TREXENQ_XSYNCHRES_NO	"B'00100000'" ++ XSYNCHRES.NO KEYWORD
		...1 ....		TREXENQ_XCONTROL_DO_NOT_OVERRIDE	"B'00010000'" ++ XCONTROL.DO_NOT_OVERRIDE KEYWORD
		.... 1...		TREXENQ_XSCOPE_DO_NOT_OVERRIDE	"B'00001000'" ++ XSCOPE.DO_NOT_OVERRIDE KEYWORD
		.... .1..		TREXENQ_XRNL_DO_NOT_OVERRIDE	"B'00000100'" ++ XRNL.DO_NOT_OVERRIDE KEYWORD
		.... ..1.		TREXENQ_XSYNCHRES_DO_NOT_OVERRIDE	"B'00000010'" ++ XSYNCHRES.DO_NOT_OVERRIDE KEYWORD
		.... ...1		TREXENQ_XRNAME_DO_NOT_OVERRIDE	"B'00000001'" ++ XRNAME.DO_NOT_OVERRIDE KEYWORD
630	(276)	BITSTRING	1	TREXENQ_XFLAGS3	++ FIELD_LABEL
		1... ....		TREXENQ_KEYUSED_CONTROL	"B'10000000'" ++ KEYUSED.CONTROL KEYWORD
		.... ...1		TREXENQ_XRNAMELEN_DO_NOT_OVERRIDE	"B'00000001'" ++ XRNAMELEN.DO_NOT_OVERRIDE KEYWORD
631	(277)	BITSTRING	1	TREXENQ_XFLAGS4	++ FIELD_LABEL
		.... ...1		TREXENQ_XUCB@_DO_NOT_OVERRIDE	"B'00000001'" ++ XUCB@.DO_NOT_OVERRIDE KEYWORD
632	(278)	ADDRESS	8	TREXENQ_XRESTABLE_ADDR3164	++ ADDR3164
640	(280)	ADDRESS	8	TREXENQ_XENQTOKEN_ADDR3164	++ ADDR3164
648	(288)	ADDRESS	8	TREXENQ_XRETURNTABLE_ADDR3164	
656	(290)	ADDRESS	8	TREXENQ_XENQTOKEN_TBL_ADDR3164	
664	(298)	ADDRESS	8	TREXENQ_XRNAME_ADDR3164	++ ADDR3164
672	(2A0)	ADDRESS	8	TREXENQ_XANSAREA_ADDR3164	++ ADDR3164
680	(2A8)	CHARACTER	8	TREXENQ_XQNAME	++
688	(2B0)	CHARACTER	16	TREXENQ_XOWNINGTTOKEN	++
704	(2C0)	SIGNED	4	TREXENQ_XRESTABLE_ALET	++ ALET
708	(2C4)	SIGNED	4	TREXENQ_XENQTOKEN_ALET	++ ALET
712	(2C8)	SIGNED	4	TREXENQ_XRETURNTABLE_ALET	++ ALET
716	(2CC)	SIGNED	4	TREXENQ_XENQTOKEN_TBL_ALET	++ ALET
720	(2D0)	SIGNED	4	TREXENQ_XRNAME_ALET	++ ALET
724	(2D4)	SIGNED	4	TREXENQ_XANSAREA_ALET	++ ALET
728	(2D8)	SIGNED	4	TREXENQ_XANSLEN	++
732	(2DC)	ADDRESS	4	TREXENQ_XECB@	++
736	(2E0)	ADDRESS	4	TREXENQ_XUCB@	++
740	(2E4)	BITSTRING	2	TREXENQ_XNUMRES	++
742	(2E6)	BITSTRING	1	TREXENQ_XRNAMELEN	++
743	(2E7)	CHARACTER	1	TREXENQ_XRSV0001	++ RESERVED
744	(2E8)	CHARACTER	8	TREXENQ_XRSVNNNN	++ RESERVED
744	(2E8)	X'2F0'	0	TREXENQ_PL_END	"*" ++ END OF BASE PLIST



Table 285. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
626	(272)	BITSTRING	1	TREXENQ_XSCOPEVAL	++
627	(273)	BITSTRING	1	TREXENQ_XCONTROLVAL	++
752	(2F0)	X'80'	0	TREXENQL	"*-TREXENQ" ++ LENGTH OF PLIST
ISGENQ-2					
752	(2F0)	BITSTRING	32	TRERDRET	Internal Reader ENQ token
784	(310)	BITSTRING	32	TRESVJET	SVJLOCK ENQ token (not used by \$SVJTEST)
Make sure the TRE is not smaller than the TRX, since the TRX'es are obtained in the TRE cell pool.					
680	(2A8)	DBL WORD	8		as TRX
Ensure that TREs stay within a page (ie do not cross a page boundary). Round the size to a page boundary minus the GETHP prefix minus the 8 byte guard byte.					
1008	(3F0)	X'3F0'	0	TRELEN	"*-TRE" LENGTH OF TRE DSECT

Table 286. Cross Reference for \$TRE

Name	Offset	Hex Tag
M00M1594	0	270
TRE	0	
TREBNAME	60	
TREBRNCH	8	
TRECF1SA	130	
TRECF1SV	134	C6F1E2C1
TRECKEY	5	
TRECMB	1E4	
TRECP00L	2C	
TRECRTIM	218	
TRECRTRC	4C	
TRECSAVE	14	
TREDAXCC	1E1	80
TREDAXDT	1E0	
TREDAXFG	1E1	
TREDAXPL	1E0	
TREDAXSD	1E4	
TREDOPRM	1E0	
TREDOUB	60	
TREDVID	1E0	
TREDVNAM	1E4	
TREDWORK	220	



Table 286. Cross Reference for \$TRE (continued)

Name	Offset	Hex Tag
TREFINT	6	8000
TREFIRDR	6	8001
TREFLAG1	44	
TREFLAG2	45	
TREFLAG3	3D	
TREFLAG4	3E	
TREFLAG5	4D	
TREFRESA	228	
TREFUNC	6	
TREGWORK	12C	5C
TREHCCT	18	
TREID	0	E3D9C540
TREIRWD	1E0	
TREJBESL	1F0	14
TREJBEST	1E0	
TREJBKEY	1E0	
TREKEYSV	30	
TRELEN	3F0	3F0
TRENQSTR	10C	
TRENUWRK	1E0	
TREPJRB	1E0	
TRERB	10	
TRERCUR	128	
TRERDRET	2F0	
TRERECAD	1F8	
TRERECCS	200	
TRERECDW	C8	
TRERECFA	1E8	
TRERECFN	1F0	
TRERECHD	5D	
TRERECHL	5C	
TRERECLM	1FC	
TRERECRA	1E0	
TRERECSA	1E4	
TRERECSC	1F4	
TRERECUC	1F6	
TRERECWK	1EC	
TREREYE	124	
TRERNAME	124	



Table 286. Cross Reference for \$TRE (continued)

Name	Offset	Hex Tag
TRERPLRQ	1E4	
TRERSAVE	24	
TRERSV	3F	
TRESAPIA	1E0	
TRESAPID	1E4	
TRESAVE	5C	
TRESFRB	1E4	
TRESFWRK	1E0	
TRESJBLK	28	
TRESJBTk	10C	
TRESJBTL	121	18
TRESJVQT	10C	
TRESPINS	1E0	
TRESPNWA	1E4	
TRESSIBP	1C	
TRESSIWK	1E0	
TRESSIWL	204	34
TRESVJET	310	
TRETCB	C	
TRETRDEL	118	C
TRETRDEQ	10C	110
TRETRENL	11C	C
TRETRENQ	110	114
TRETRXCR	20	
TREUSECT	3C	
TREUSERA	34	
TREUSERB	38	
TREUSER1	46	
TREVRNUM	4	4
TREVRSN	4	
TREWAITE	40	
TREWTASJ	58	
TREWTAWA	50	
TREWTINA	1F4	
TREWT35A	1F0	
TREWT35T	1F8	
TREXENQ	270	
TREXENQ_KEYUSED_CONTROL	276	80
TREXENQ_PL_END	2E8	2F0



Table 286. Cross Reference for \$TRE (continued)

Name	Offset	Hex Tag
TREXENQ_XANSAREA_ADDR3164	2A0	
TREXENQ_XANSAREA_ALET	2D4	
TREXENQ_XANSLEN	2D8	
TREXENQ_XCOND_NO	0	1
TREXENQ_XCOND_YES	0	2
TREXENQ_XCONTENTIONACT_FAIL	274	20
TREXENQ_XCONTROL	273	
TREXENQ_XCONTROL_DO_NOT_OVERRIDE	275	10
TREXENQ_XCONTROL_EXCLUSIVE	273	2
TREXENQ_XCONTROL_SHARED	273	1
TREXENQ_XCONTROLVAL	273	
TREXENQ_XECB@	2DC	
TREXENQ_XENQMAX_NO	274	4
TREXENQ_XENQTOKEN_ADDR3164	280	
TREXENQ_XENQTOKEN_ALET	2C4	
TREXENQ_XENQTOKENTBL_ADDR3164	290	
TREXENQ_XENQTOKENTBL_ALET	2CC	
TREXENQ_XFLAGS1	274	
TREXENQ_XFLAGS2	275	
TREXENQ_XFLAGS3	276	
TREXENQ_XFLAGS4	277	
TREXENQ_XNUMRES	2E4	
TREXENQ_XOWNINGTTOKEN	2B0	
TREXENQ_XQNAME	2A8	
TREXENQ_XQNAME_DO_NOT_OVERRIDE	274	1
TREXENQ_XREQUEST_CHANGE	0	2
TREXENQ_XREQUEST_OBTAIN	0	1
TREXENQ_XREQUEST_RELEASE	0	3
TREXENQ_XRESERVEVOLUME_YES	275	80
TREXENQ_XRESLIST_YES	274	8
TREXENQ_XRESTABLE_ADDR3164	278	
TREXENQ_XRESTABLE_ALET	2C0	
TREXENQ_XRETURNTABLE_ADDR3164	288	
TREXENQ_XRETURNTABLE_ALET	2C8	
TREXENQ_XRNAME_ADDR3164	298	
TREXENQ_XRNAME_ALET	2D0	
TREXENQ_XRNAME_DO_NOT_OVERRIDE	275	1
TREXENQ_XRNAMELEN	2E6	
TREXENQ_XRNAMELEN_DO_NOT_OVERRIDE	276	1



Table 286. Cross Reference for \$TRE (continued)

Name	Offset	Hex Tag
TREXENQ_XRNL_DO_NOT_OVERRIDE	275	4
TREXENQ_XRNL_NO	274	2
TREXENQ_XRSVNNNN	2E8	
TREXENQ_XRSV0000	271	
TREXENQ_XRSV0001	2E7	
TREXENQ_XSCOPE	272	
TREXENQ_XSCOPE_DO_NOT_OVERRIDE	275	8
TREXENQ_XSCOPE_STEP	272	1
TREXENQ_XSCOPE_SYSPLEX	272	3
TREXENQ_XSCOPE_SYSTEM	272	2
TREXENQ_XSCOPE_SYSTEMS	272	3
TREXENQ_XSCOPEVAL	272	
TREXENQ_XSYNCHRES_DO_NOT_OVERRIDE	275	2
TREXENQ_XSYNCHRES_NO	275	20
TREXENQ_XSYNCHRES_YES	275	40
TREXENQ_XTEST_YES	274	40
TREXENQ_XUCB@	2E0	
TREXENQ_XUCB@_DO_NOT_OVERRIDE	277	1
TREXENQ_XVERSION	270	
TREXENQ_XWAITTYPE_ECB	274	10
TREXENQL	2F0	80
TREX30TP	47	
TRE1NDMP	44	1
TRE1NIRB	44	4
TRE1SENQ	44	10
TRE1SSI	44	20
TRE1STAX	44	2
TRE1TRAC	44	40
TRE1TRAK	44	8
TRE1TYPE	44	80
TRE2CNCL	45	40
TRE2LHLD	45	20
TRE2LKST	45	1
TRE2LKUS	45	4
TRE2LL	45	2
TRE2LOG	45	8
TRE2TERM	45	10
TRE2X33	45	80
TRE3ESTA	3D	4



Table 286. Cross Reference for \$TRE (continued)

Name	Offset	Hex Tag
TRE3JESL	3D	40
TRE3JSLR	3D	80
TRE3PERC	3D	1
TRE3SARR	3D	8
TRE3SJBL	3D	20
TRE3STAX	3D	10
TRE3UANY	3D	2
TRE4BEWT	3E	8
TRE4ENQH	3E	40
TRE4SIRB	3E	2
TRE4SMMSG	3E	4
TRE4SSJB	3E	1
TRE4TRNQ	3E	80
TRE4WPUR	3E	20
TRE4WSPN	3E	10
TRE5BLSC	4D	40
TRE5IRDR	4D	80
TRE5NQER	4D	4
TRE5RECT	4D	8
TRE5SCNT	4D	10
TRE5SDBL	4D	20

## \$TRX information

### \$TRX programming interface information

\$TRX is a programming interface.

### \$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 \$\$\$IBEGN 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 mapping

Table 287. Structure TRX

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TRX	Beginning of the TRX DSECT
0	(0)	CHARACTER	4	TRXID	Eyecatcher of TRX
4	(4)	ADDRESS	1	TRXVRSN	Version field of the TRX
4	(4)	X'3'	0	TRXVRNUM	"3" Current version
5	(5)	BITSTRING	1	TRXRVCVRY	Current recovery level
6	(6)	BITSTRING	1	TRXRECNM	Number of \$ERRORs issued
7	(7)	BITSTRING	1	TRXFLAG1	Flag byte 1
		1... ....		TRX1SSI	"B'10000000'" TRX represents ESTAE established by \$\$\$IBEGN
		.1.. ....		TRX1ESTA	"B'01000000'" TRX represents ESTAE established by \$ESTAE
		..1. ....		TRX1ESTE	"B'00100000'" Associated ESTAE is established
		...1 ....		TRX1RCVY	"B'00010000'" In use by RECOVERY - If this bit is on when cancel, percolated
		.... 1...		TRX1PERC	"B'00001000'" Percolation required - this flag is for use by \$ESTAE recovery exits
		.... .1..		TRX1NDMP	"B'00000100'" Suppress dump
		.... ..1.		TRX1RECY	"B'00000010'" This is temporary recovery TRX
8	(8)	ADDRESS	4	TRXRECAD	Address of recovery exit
12	(C)	ADDRESS	4	TRXRADDR	Retry address vector - 2 byte cnt followed by 4 byte addr
16	(10)	ADDRESS	4	TRXTOKEN	ESTAE token for this ESTAE
20	(14)	ADDRESS	4	TRXPREV	Address of previous TRX
24	(18)	ADDRESS	4	TRXTRE	Address of TRE for this TRX
28	(1C)	ADDRESS	4	TRXUSER1	User field 1
32	(20)	ADDRESS	4	TRXUSER2	User field 2



Table 287. Structure TRX (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
<p>Next comes a caller address array. This is a 25x16 byte array, with header fields, used to save the addresses of the caller of a routine which issues a \$SAVE macro. This array is used to determine the sequence of calls both for dump analysis, as well as for the \$HASP088 message, in the (unlikely?) event that the JES2 Main Task blows up while executing code in the user environment.</p>					
36	(24)	ADDRESS	4	TRXNEXTN	Entry in caller addr array
36	(24)	X'19'	0	TRXNUMEN	"25" Number of entries in array
36	(24)	X'10'	0	TRXCLRLN	"L'TRXCLRAR" Length of a single entry
36	(24)	X'0'	0	TRXCLRAD	"0,4,C'A'" Address of caller of routine
36	(24)	X'4'	0	TRXCLRNM	"4,4,C'A'" Address of called routine name
36	(24)	X'8'	0	TRXCLRLS	"8,4,C'F'" Linkage stack pointer
36	(24)	X'C'	0	TRXCLREX	"12,1,C'X'" Exit number
40	(28)	BITSTRING	16	TRXCLRAR(0)	Caller array
40	(28)	X'28'	0	TRXESTAE	"TRXCLRAR,16*TRXNUMEN" Work area for ESTAE
<p>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.</p>					
440	(1B8)	CHARACTER	32	TRXTRACK	Area for debugging data
472	(1D8)	SIGNED	2	TRXTRACL(0)	Length of debugging data
472	(1D8)	SIGNED	1	TRXLOGWK	Upper byte of length (0)
473	(1D9)	SIGNED	1	TRXLOGLN	Length of data (0-32)
474	(1DA)	BITSTRING	2		Reserved
476	(1DC)	SIGNED	4	TRXLSAD	Linkage stack address TRX was created
<p>Registers are saved when the \$ESTAE is established in the user environment.</p>					
480	(1E0)	SIGNED	4	TRXGRSAV(16)	Low half general registers at time of \$ESTAE invocation
544	(220)	SIGNED	4	TRXGRHSV(16)	High half general registers at time of \$ESTAE invocation
608	(260)	SIGNED	4	TRXARSAV(16)	Access register save area at time of \$ESTAE invocation
672	(2A0)	SIGNED	4	TRXECBTR	ECB used to WAIT forever
676	(2A4)	ADDRESS	4	TRXRECTRE	If TRX1RECY, address of caller TRE for recovery TRX
676	(2A4)	X'2A8'	0	TRXLEN	"*-TRX"

Table 288. Cross Reference for \$TRX

Name	Offset	Hex	Tag
TRX	0		
TRXARSAV	260		
TRXCLRAD	24		0



Table 288. Cross Reference for \$TRX (continued)

Name	Offset	Hex Tag
TRXCLRAR	28	
TRXCLREX	24	C
TRXCLRLN	24	10
TRXCLRLS	24	8
TRXCLRNM	24	4
TRXECBTR	2A0	
TRXESTAE	28	28
TRXFLAG1	7	
TRXGRHSV	220	
TRXGRSAV	1E0	
TRXID	0	E3D9E740
TRXLEN	2A4	2A8
TRXLOGLN	1D9	
TRXLOGWK	1D8	0
TRXLSAD	1DC	
TRXNEXTN	24	
TRXNUMEN	24	19
TRXPREV	14	
TRXRADDR	C	
TRXRCTRE	2A4	
TRXRCVRY	5	
TRXRECAD	8	
TRXRECNM	6	
TRXTOKEN	10	
TRXTRACK	1B8	
TRXTRACL	1D8	
TRXTRE	18	
TRXUSER1	1C	
TRXUSER2	20	
TRXVRNUM	4	3
TRXVRSN	4	
TRX1ESTA	7	40
TRX1ESTE	7	20
TRX1NDMP	7	4
TRX1PERC	7	8
TRX1RCVY	7	10
TRX1RECY	7	2
TRX1SSI	7	80



## \$TTETBL information

---

### \$TTETBL heading information

**Common name:** TTE Trace Table DSECT

**Macro ID:** \$TTETBL

**DSECT name:** TTETBL

**Owning component:** JES2 (SC1BH)

**Eye-catcher ID:** 'TTETBL '  
Offset: TTETEYEC  
Length: L'TTETEYEC

**Storage attributes:** Subpool: 231  
Key: 1  
Residency: Virtual is in 31 bit common storage (ESCA), real can be anywhere in 64 bit storage.

**Size:** The TTE trace table is variable in size. The total size of the table itself is the number of sections included in the TTE (found in field TTETSCNT) times the length of a table entry (defined by equate TTETENTL).  
The total size of data referenced by the table is determined by taking the table size calculated above and adding in the size of data referenced by each table entry (in field TTETSDLN).

**Created by:** The TTE Trace Table is created by code that wishes to trace data whose DSECTs may vary in size or content across a HOT start. An example is TRACE ID 25, where the TTE Trace Table is created in module HASPFSSM by routine FSMCHKPT when it will issue a ID 25 trace entry. The \$TRACE macro is used to allocate a TTE to contain the trace data, the code in FSMCHKPT then initializes some data and then fills in the TTE Trace Table as it loads sections of trace data into the TTE.

**Pointed to by:** The TTE Trace Table is located in the TTEDATA portion of the TTE. Its specific location is determined by the code utilizing the structure. For TRACE ID 25, the TTE Trace Table is located after the register values stored in TTEDATA. There is no specific pointer field identifying its location.

**Serialization:** See comments in \$TRACER service for serialization requirements.

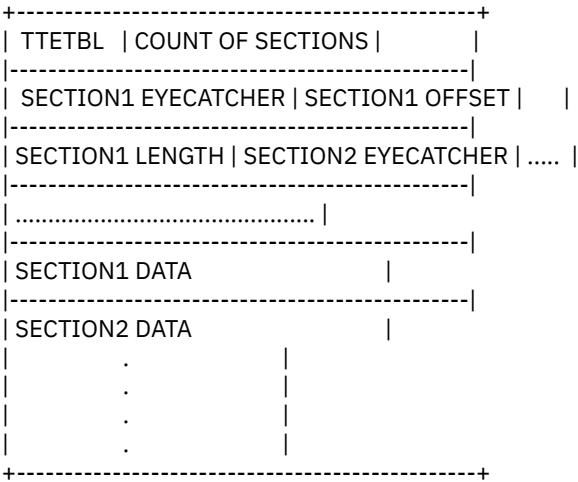


**Function:** The TTE Trace Table DSECT allows for the assembly or reading of a variable number of sections of trace data, each section which contains a variable amount of data. Use of the TTE Trace Table avoids problems tracing/printing data from control blocks that might have been built using a previous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

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

Next in the table is an entry per section being traced. Each section will contain an 8 character eyecatcher identifying the section, a 2 byte offset into TTEDATA where the data is stored, then a 2 byte length of data contained in the section. Note that HASPFSSM and HASPEVTL must have the same list of 8 character section eyecatchers in order for the data to print with the proper headers. If HASPEVTL encounters an eyecatcher it does not recognize it will output the TTE Table entry eyecatcher for the title.

The table will be followed by the sections of data. The TTE layout will look like this:



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

### \$TTETBL mapping

Table 289. Structure TTETBL

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TTETBL	TTE Trace Table DSECT
0	(0)	CHARACTER	8	TTETEYEC	TTETBL eyecatcher



Table 289. Structure TTETBL (continued)

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

Table 290. Cross Reference for \$TTETBL

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

## \$WARMWRK information

### \$WARMWRK programming interface information

\$WARMWRK is a programming interface.

### \$WARMWRK heading information

<b>Common name:</b>	JES2 Warm Start PCE Work Area
<b>Macro ID:</b>	\$WARMWRK
<b>DSECT name:</b>	PCE (\$WARMWRK is part of the PCE DSECT)
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'PCE ' Offset: PCEEYE-PCE Length: 4



<b>Storage attributes:</b>	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
<b>Size:</b>	See symbol WRMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
<b>Created by:</b>	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.
<b>Pointed to by:</b>	The \$WARMMPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first warm start PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See \$PCE for other pointer fields that apply to all PCE types.
<b>Serialization:</b>	Normal PCE dispatch serialization
<b>Function:</b>	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 mapping

Table 291. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP WARM START PROCESSOR
336	(150)	BITSTRING	12	WRMTQE	TIMER QUEUE ELEMENT
348	(15C)	ADDRESS	4	WRMCYLMP	ADDR OF TRK ALLOCATE WORK AREA
352	(160)	ADDRESS	8	WRMTGMA	Address of temp TGM
360	(168)	SIGNED	4	WRMTGML	Length of temp TGM
364	(16C)	SIGNED	4	WRMTGMSZ	4K Rounded size of temp TGM
368	(170)	ADDRESS	4	WRMJCTBF	JCT BUFFER ADDRESS
372	(174)	ADDRESS	4	WRMIOTBF	IOT buffer address
376	(178)	SIGNED	4	WRMMTTR	SAVE AREA FOR MTTR
380	(17C)	BITSTRING	4		Reserved
384	(180)	SIGNED	4	WRMMONXT	MTTR of IOT after mother
388	(184)	SIGNED	4	WRMMOCUR	MTTR of current Mother IOT
392	(188)	BITSTRING	5	WRMWMQT	MQT work area
397	(18D)	BITSTRING	3		Reserved
400	(190)	ADDRESS	4	WRMWCA	Addr warm start comm area
404	(194)	ADDRESS	4	WRMOTHER	Addr of mother warm start PCE



Table 291. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
408	(198)	ADDRESS	4	WRMESYSQ	Addr of \$E SYS QSE
412	(19C)	SIGNED	4	WRMDOMID	DOMID for HASP493
416	(1A0)	ADDRESS	4	WRMWSJQE	Single JQE to warm start
420	(1A4)	ADDRESS	4	WRMJQE	Current JQA
424	(1A8)	SIGNED	4	WRMJQE0F	Offset of current real JQE
428	(1AC)	BITSTRING	32	WRMSUMSK	JOB SPLS USED MASK BUILD AREA
460	(1CC)	BITSTRING	8	WRMSDOWN	SYSTEM DOWN TABLE
468	(1D4)	SIGNED	2	WRMNRDAU	Number of daughter PCEs
470	(1D6)	BITSTRING	1		Reserved for future use
471	(1D7)	BITSTRING	1	WRMFLAG1	WARM START PROCESSOR STATUS BYTE
		1... ....		WRM1PCEM	"B'10000000" This is a mother PCE
		.1.. ....		WRM1PCED	"B'01000000" This is a daughter PCE
		..1. ....		WRM1RERD	"B'00100000" SET TO READ BOTH CHAINS OF IOTS
		...1 ....		WRM1UNSP	"B'00010000" UNSPUN IOT EXISTS FOR JOB
		.... 1...		WRM1RDER	"B'00001000" JCT READ ERROR OCCURRED
		.... .1..		WRM1CLSQ	"B'00000100" Called from class queue
		.... ..1.		WRM1JQEJ	"B'00000010" RUNNING JQE JOE CHAIN FOR JOB
		.... ...1		WRM1HLDQ	"B'00000001" Called from Hold queue
472	(1D8)	ADDRESS	4	WRMCHKBF	CHK I/O BUFFER ADDRESS
476	(1DC)	BITSTRING	1	WRMFLAG2	WARM START JOB STATUS FLAG
		1... ....		WRM2TEST	"B'10000000" REQUEUE JOB AFTER MORE TESTING
		.1.. ....		WRM2PURG	"B'01000000" REQUEUE JOB FOR PURGE
		..1. ....		WRM2NSPL	"B'00100000" SPOOL NOT AVAILABLE
		...1 ....		WRM2STRT	"B'00010000" REQUEUE STARTING STC/TSU JOB
		.... 1...		WRM2NBSY	"B'00001000" REQUEUE NON-BUSY JOB
		.... .1..		WRM2JERR	"B'00000100" JOB HAS JCT ERROR
		.... ..1.		WRM2QREM	"B'00000010" Remove job from the system
		.... ...1		WRM2MTTR	"B'00000001" UPDATE JOB'S SPOOLS USED MASK FROM THE MTTR
477	(1DD)	BITSTRING	1	WRMFLAG3	WARM START FLAG BYTE 3
		1... ....		WRM3SIOT	"B'10000000" SPIN IOT TO BE READ
		.1.. ....		WRM3DAUG	"B'01000000" Daughter IOT to process
		..1. ....		WRM3MACT	"B'00100000" Mother PCE which is active
		...1 ....		WRM3NICN	"B'00010000" Not in init continuation
		.... 1...		WRM3PJOE	"B'00001000" Processing JOE purge queue
		.... .1..		WRM3LOCK	"B'00000100" Warm start lock acquired
		.... ..1.		WRM3DUPS	"B'00000010" Duplicate jobs released
		.... ...1		WRM3RJOE	"B'00000001" Processing JOE rebuild que
478	(1DE)	BITSTRING	1	WRMTYPE	Warm start type (bits are the same as those defined for \$WARMTYP)



Table 291. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
479	(10F)	BITSTRING	1	WRMFLAG4	Warm Start flag byte 4
		1... ....		WRM4E58S	"B'10000000" ENF58 signal should not be issued when a JOE is \$#PUT back onto the queue
		.1.. ....		WRM4NQIK	"B'01000000" This member not quick startable => AMWS abort
		..1. ....		WRM4AMWS	"B'00100000" This warmstart began as all member type
		...1 ....		WRM4ALIC	"B'00010000" Work found for ALICE
		.... 1...		WRM4DONE	"B'00001000" Job already disposed of
		.... .1..		WRM4JLOK	"B'00000100" Job lock acquired
		.... ...1		WRM4FAIL	"B'00000001" \$E MEMBER failed (only on in mother PCE)
480	(1E0)	BITSTRING	1	WRMSTAT1	Job state flag (See \$WR1xxxx in HASPWARM)
481	(1E1)	BITSTRING	1	WRMFLAG5	Warm Start flag byte 5
		1... ....		WRM5JODL	"B'10000000" JOE was deleted
		.1.. ....		WRM5NXST	"B'01000000" SPOOL does not exist
		..1. ....		WRM5RSTR	"B'00100000" Routine NQREQUE found job to be restartable
482	(1E2)	BITSTRING	2		Reserved for future use
484	(1E4)	ADDRESS	4	WRMMASTB	Address of Primary table for various scenarios
488	(1E8)	DBL WORD	8	WRMTIMES	Timestamp used by DILBERT PCE to find mother warm start PCE
496	(1F0)	BITSTRING	2	WRMESQIX	ESQ index
498	(1F2)	BITSTRING	1	WRMTGSBM	\$TGMSET bad M (DAS)
499	(1F3)	BITSTRING	1	WRMTGSRC	\$TGMSET return code
500	(1F4)	ADDRESS	4	WRMBLOB	Address of temporary checkpointed BLOB
504	(1F8)	SIGNED	4	WRMTGRSZ	WRMBLOB TGR element size
508	(1FC)	SIGNED	4	WRMJQEFA	Number of JOE warmstart failures
512	(200)	SIGNED	4	WRMQECB(0)	Confirm start msg ecb
536	(218)	CHARACTER	9	WRMQREPL	Confirm start reply area
545	(221)	BITSTRING	3		Reserved
----- \$BLDMSG MF=L List form of \$BLDMSG					
548	(224)	SIGNED	4	WRMBLMSG(0)	Control block ID
552	(228)	BITSTRING	4		Console ID
556	(22C)	ADDRESS	4		Address of the CART
560	(230)	ADDRESS	4		Pointer for JOEID
564	(234)	ADDRESS	4		Control block address
568	(238)	ADDRESS	4		Display routine address
572	(23C)	ADDRESS	4	(6)	6 word work area
596	(254)	ADDRESS	4		Caller's R11 value
600	(258)	BITSTRING	2		ROUT code for Message
602	(25A)	BITSTRING	2		Not used
604	(25C)	CHARACTER	4		Message ID
608	(260)	CHARACTER	1		Separator character



Table 291. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
609	(261)	ADDRESS	1		Flag byte 1
610	(262)	ADDRESS	1		'DISPER'
611	(263)	ADDRESS	1		Flag byte 2
612	(264)	ADDRESS	1		Flag byte 3
613	(265)	ADDRESS	1		Severity of message
614	(266)	CHARACTER	8		Symbolic name of dest.
622	(26E)	BITSTRING	14		Not used
636	(27C)	ADDRESS	4	(0)	Ensure multiple of 4
636	(27C)	ADDRESS	2	(0)	
----- \$IOTERR MF=L List form of \$IOTERR					
636	(27C)	SIGNED	4	(0)	Align on fullword boundary
636	(27C)	BITSTRING	1	WRM\$SIR	\$IOTERR parameter list
----- IARV64 MF=(L,WRMIARV),PLISTVER=MAX MF=L IARV64 MACDATE -02/08/21-<6>					
0	(0)	X'290'	0	M00M1188	"WRMIARV" ++ IARV64 NAME
656	(290)	DBL WORD	8	WRMIARV(0)	++ IARV64 PARM LIST
656	(290)	BITSTRING	1	WRMIARV_XVERSION	++ INPUT XVERSION
657	(291)	BITSTRING	1	WRMIARV_XREQUEST	++ XREQUEST
657	(291)	X'1'	0	WRMIARV_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
657	(291)	X'2'	0	WRMIARV_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
657	(291)	X'3'	0	WRMIARV_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
657	(291)	X'4'	0	WRMIARV_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
657	(291)	X'5'	0	WRMIARV_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
657	(291)	X'6'	0	WRMIARV_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
657	(291)	X'7'	0	WRMIARV_XREQUEST_DISCARDATA	"7" ++ XREQUEST.DISCARDATA KEYWORD
657	(291)	X'8'	0	WRMIARV_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
657	(291)	X'9'	0	WRMIARV_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
657	(291)	X'A'	0	WRMIARV_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
657	(291)	X'B'	0	WRMIARV_XREQUEST_CHANGEACCESS	"11" ++ XREQUEST.CHANGEACCESS KEYWORD
657	(291)	X'C'	0	WRMIARV_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
657	(291)	X'D'	0	WRMIARV_XREQUEST_CHANGEGUARD	"13" ++ XREQUEST.CHANGEGUARD KEYWORD
657	(291)	X'E'	0	WRMIARV_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
657	(291)	X'F'	0	WRMIARV_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
657	(291)	X'10'	0	WRMIARV_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
657	(291)	X'11'	0	WRMIARV_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD
657	(291)	X'12'	0	WRMIARV_XREQUEST_PCIEUNFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD
657	(291)	X'13'	0	WRMIARV_XREQUEST_CHANGEATTRIBUTE	"19" ++ XREQUEST.CHANGEATTRIBUTE KEYWORD



Table 291. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
658	(292)	BITSTRING	1	WRMIARV_XFLAGS0	++ FIELD_LABEL
		1... ....		WRMIARV_XMOTKNSOURCE_SYSTEM	"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1.. ....		WRMIARV_XMOTKNCREATOR_SYSTEM	"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1. ....		WRMIARV_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
659	(293)	BITSTRING	1	WRMIARV_XKEY	++
660	(294)	BITSTRING	1	WRMIARV_XFLAGS1	++ FIELD_LABEL
		1... ....		WRMIARV_KEYUSED_KEY	"B'10000000'" ++ KEYUSED.KEY KEYWORD
		.1.. ....		WRMIARV_KEYUSED_USERTKN	"B'01000000'" ++ KEYUSED.USERTKN KEYWORD
		..1. ....		WRMIARV_KEYUSED_TTOKEN	"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
		...1 ....		WRMIARV_KEYUSED_CONVERTSTART	"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD
		.... 1...		WRMIARV_KEYUSED_GUARDSIZE64	"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD
		.... .1..		WRMIARV_KEYUSED_CONVERTSIZE64	"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
		.... ..1.		WRMIARV_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		.... ...1		WRMIARV_KEYUSED_OWNERJOBNAME	"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
661	(295)	BITSTRING	1	WRMIARV_XFLAGS2	++ FIELD_LABEL
		1... ....		WRMIARV_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
		.1.. ....		WRMIARV_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
		..1. ....		WRMIARV_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1 ....		WRMIARV_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		WRMIARV_XCHANGEACCESS_GLOBAL	"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		WRMIARV_XPAGEFRAME_SIZE_1MEG	"B'00000100'" ++ XPAGEFRAME_SIZE.1MEG KEYWORD
		.... ..1.		WRMIARV_XPAGEFRAME_SIZE_MAX	"B'00000010'" ++ XPAGEFRAME_SIZE.MAX KEYWORD
		.... ...1		WRMIARV_XPAGEFRAME_SIZE_ALL	"B'00000001'" ++ XPAGEFRAME_SIZE.ALL KEYWORD
662	(296)	BITSTRING	1	WRMIARV_XFLAGS3	++ FIELD_LABEL
		1... ....		WRMIARV_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1.. ....		WRMIARV_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD



Table 291. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		..1. ....		WRMIARV_XUSE2GT032G_YES	"B'00100000'" ++ XUSE2GT032G.YES KEYWORD
		...1 ....		WRMIARV_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD
		.... 1...		WRMIARV_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		WRMIARV_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		WRMIARV_XV64SHARED_NO	"B'00000010'" ++ XV64SHARED.NO KEYWORD
		.... ...1		WRMIARV_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
663	(297)	BITSTRING	1	WRMIARV_XFLAGS4	++ FIELD_LABEL
		1... ....		WRMIARV_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD
		.1.. ....		WRMIARV_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1. ....		WRMIARV_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1 ....		WRMIARV_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		WRMIARV_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		WRMIARV_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		WRMIARV_XCONVERT_FROMGUARD	"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD
		.... ...1		WRMIARV_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
664	(298)	DBL WORD	8	WRMIARV_XSEGMENTS	++
672	(2A0)	CHARACTER	16	WRMIARV_XTTOKEN	++
688	(2B0)	DBL WORD	8	WRMIARV_XUSERTKN	++
696	(2B8)	ADDRESS	8	WRMIARV_XORIGIN	++
704	(2C0)	ADDRESS	8	WRMIARV_XRANGLIST	++
712	(2C8)	ADDRESS	8	WRMIARV_XMEMOBJSTART	++
720	(2D0)	SIGNED	4	WRMIARV_XGUARDSIZE	++
724	(2D4)	SIGNED	4	WRMIARV_XCONVERTSIZE	++
728	(2D8)	SIGNED	4	WRMIARV_XALETVALUE	++
732	(2DC)	SIGNED	4	WRMIARV_XNUMRANGE	++
736	(2E0)	ADDRESS	4	WRMIARV_XV64LISTPTR	++
740	(2E4)	SIGNED	4	WRMIARV_XV64LISTLENGTH	++
744	(2E8)	DBL WORD	8	WRMIARV_XCONVERTSTART	++
752	(2F0)	DBL WORD	8	WRMIARV_XCONVERTSIZE64	++
760	(2F8)	DBL WORD	8	WRMIARV_XGUARDSIZE64	++
768	(300)	CHARACTER	8	WRMIARV_XUSERTOKEN	++
776	(308)	BITSTRING	1	WRMIARV_XDUMPPRIORITY	++
777	(309)	BITSTRING	1	WRMIARV_XFLAGS5	++ FIELD_LABEL
		1... ....		WRMIARV_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1.. ....		WRMIARV_XORDER_DUMPPRIORITY	"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1. ....		WRMIARV_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1 ....		WRMIARV_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD



Table 291. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		WRMIARV_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		WRMIARV_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		WRMIARV_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		.... ...1		WRMIARV_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
778	(30A)	BITSTRING	1	WRMIARV_XFLAGS6	++ FIELD_LABEL
		1... ....		WRMIARV_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1.. ....		WRMIARV_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1. ....		WRMIARV_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1 ....		WRMIARV_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		WRMIARV_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		WRMIARV_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		WRMIARV_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		.... ...1		WRMIARV_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD
779	(30B)	BITSTRING	1	WRMIARV_XFLAGS7	++ FIELD_LABEL
		1... ....		WRMIARV_KEYUSED_DUMP	"B'10000000'" ++ KEYUSED.DUMP KEYWORD
		.1.. ....		WRMIARV_KEYUSED_OPTIONVALUE	"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1. ....		WRMIARV_KEYUSED_SVCDUMPRGN	"B'00100000'" ++ KEYUSED.SVCDUMPRGN KEYWORD
		...1 ....		WRMIARV_XATTRIBUTE_DEFS	"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		WRMIARV_XATTRIBUTE_OWNERGONE	"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		WRMIARV_XATTRIBUTE_NOTOWNERGONE	"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD
		.... ..1.		WRMIARV_XTRACKINFO_YES	"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		.... ...1		WRMIARV_XUNLOCKED_YES	"B'00000001'" ++ XUNLOCKED.YES KEYWORD
780	(30C)	BITSTRING	1	WRMIARV_XDUMP	++ XDUMP
780	(30C)	X'0'	0	WRMIARV_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD
780	(30C)	X'1'	0	WRMIARV_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD
780	(30C)	X'2'	0	WRMIARV_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
780	(30C)	X'3'	0	WRMIARV_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
780	(30C)	X'20'	0	WRMIARV_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
780	(30C)	X'21'	0	WRMIARV_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
780	(30C)	X'FF'	0	WRMIARV_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
781	(30D)	BITSTRING	1	WRMIARV_XFLAGS8	++ FIELD_LABEL
		1... ....		WRMIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	



Table 291. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"B'10000000'" ++ XPAGEFRAMESIZE.PAGEABLE1MEG KEYWORD
		.1.. ....		WRMIARV_XPAGEFRAMESIZE_DREF1MEG	
					"B'01000000'" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
		..1. ....		WRMIARV_XSADMP_YES	"B'00100000'" ++ XSADMP.YES KEYWORD
		...1 ....		WRMIARV_XSADMP_NO	"B'00010000'" ++ XSADMP.NO KEYWORD
		.... 1...		WRMIARV_XUSE2GT064G_YES	"B'00001000'" ++ XUSE2GT064G.YES KEYWORD
		.... .1..		WRMIARV_XDISCARDPAGES_YES	"B'00000100'" ++ XDISCARDPAGES.YES KEYWORD
		.... ..1.		WRMIARV_XEXECUTABLE_YES	"B'00000010'" ++ XEXECUTABLE.YES KEYWORD
		.... ...1		WRMIARV_XEXECUTABLE_NO	"B'00000001'" ++ XEXECUTABLE.NO KEYWORD
782	(30E)	BITSTRING	2	WRMIARV_XOWNERASID	++
784	(310)	BITSTRING	1	WRMIARV_XOPTIONVALUE	++
785	(311)	CHARACTER	8	WRMIARV_XRSV0001	++ RESERVED
793	(319)	CHARACTER	8	WRMIARV_XOWNERJOBNAME	++
801	(321)	CHARACTER	7	WRMIARV_XRSV0004	++ RESERVED
808	(328)	ADDRESS	8	WRMIARV_XDMPAGETABLE	++
816	(330)	DBL WORD	8	WRMIARV_XUNITS	++
824	(338)	BITSTRING	1	WRMIARV_XFLAGS9	++ FIELD_LABEL
		1... ....		WRMIARV_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1.. ....		WRMIARV_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1. ....		WRMIARV_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1 ....		WRMIARV_XPAGEFRAMESIZE_1M	"B'00010000'" ++ XPAGEFRAMESIZE.1M KEYWORD
		.... 1...		WRMIARV_XPAGEFRAMESIZE_2G	"B'00001000'" ++ XPAGEFRAMESIZE.2G KEYWORD
		.... .1..		WRMIARV_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
825	(339)	BITSTRING	1	WRMIARV_XFLAGS10	++ FIELD_LABEL
		1... ....		WRMIARV_KEYUSED_INORIGIN	"B'10000000'" ++ KEYUSED.INORIGIN KEYWORD
		.1.. ....		WRMIARV_XSENSITIVE_YES	"B'01000000'" ++ XSENSITIVE.YES KEYWORD
		..1. ....		WRMIARV_XSENSITIVE_NO	"B'00100000'" ++ XSENSITIVE.NO KEYWORD
		...1 ....		WRMIARV_KEYUSED_SENSITIVE	"B'00010000'" ++ KEYUSED.SENSITIVE KEYWORD
826	(33A)	BITSTRING	1	WRMIARV_XFLAGS11	++ FIELD_LABEL
		1... ....		WRMIARV_KEYUSED_OBJECTTYPE	"B'10000000'" ++ KEYUSED.OBJECTTYPE KEYWORD
		.1.. ....		WRMIARV_XOBJECTTYPE_POOL	"B'01000000'" ++ XOBJECTTYPE.POOL KEYWORD
		..1. ....		WRMIARV_XOBJECTTYPE_RSMINTERNAL	"B'00100000'" ++ XOBJECTTYPE.RSMINTERNAL KEYWORD
827	(33B)	CHARACTER	5	WRMIARV_XRSV0005	++ RESERVED
827	(33B)	X'340'	0	WRMIARV_PL_END	"*" ++ END OF BASE PLIST
688	(2B0)	DBL WORD	8	WRMIARV_XOUTMOTKN	++



Table 291. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
688	(2B0)	DBL WORD	8	WRMIARV_XMOTKN	++
712	(2C8)	ADDRESS	8	WRMIARV_XINORIGIN	++
712	(2C8)	ADDRESS	8	WRMIARV_XINADDR	++
832	(340)	X'B0'	0	WRMIARVL	"*-WRMIARV" ++ LENGTH OF PLIST
IARV64-6					
832	(340)	DBL WORD	8	WRMI64SG	Number of segments
840	(348)	DBL WORD	8	WRMI64GR	Number of guard segments
848	(350)	ADDRESS	8	WRMRGDC	Ptr to job's RGDC
856	(358)	DBL WORD	8	(0)	Align warm PCE work area
856	(358)	X'208'	0	WRMPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA

Table 292. Cross Reference for \$WARMWRK

Name	Offset	Hex Tag
M00M1188	0	290
PCE	0	
WRM\$SIR	27C	
WRMBLMSG	224	C2D3C440
WRMBLOB	1F4	
WRMCHKBF	1D8	
WRMCYLMP	15C	
WRMDOMID	19C	
WRMESQIX	1F0	
WRMESYSQ	198	
WRMFLAG1	1D7	
WRMFLAG2	1DC	
WRMFLAG3	1DD	
WRMFLAG4	1DF	
WRMFLAG5	1E1	
WRMIARV	290	
WRMIARV_KEYUSED_CONVERTSIZE64	294	4
WRMIARV_KEYUSED_CONVERTSTART	294	10
WRMIARV_KEYUSED_DUMP	30B	80
WRMIARV_KEYUSED_GUARDSIZE64	294	8
WRMIARV_KEYUSED_INORIGIN	339	80
WRMIARV_KEYUSED_KEY	294	80
WRMIARV_KEYUSED_MOTKN	294	2
WRMIARV_KEYUSED_OBJECTTYPE	33A	80
WRMIARV_KEYUSED_OPTIONVALUE	30B	40
WRMIARV_KEYUSED_OWNERJOBNAME	294	1



Table 292. Cross Reference for \$WARMWRK (continued)

Name	Offset	Hex Tag
WRMIARV_KEYUSED_SENSITIVE	339	10
WRMIARV_KEYUSED_SVCDUMPRGN	30B	20
WRMIARV_KEYUSED_TTOKEN	294	20
WRMIARV_KEYUSED_UNITS	338	80
WRMIARV_KEYUSED_USERTKN	294	40
WRMIARV_PL_END	33B	340
WRMIARV_XAFFINITY_SYSTEM	296	40
WRMIARV_XALETVALUE	2D8	
WRMIARV_XAMOUNTSIZE_1MEG	30A	2
WRMIARV_XAMOUNTSIZE_4K	30A	4
WRMIARV_XATTRIBUTE_DEFS	30B	10
WRMIARV_XATTRIBUTE_NOTOWNERGONE	30B	4
WRMIARV_XATTRIBUTE_OWNERGONE	30B	8
WRMIARV_XCHANGEACCESS_GLOBAL	295	8
WRMIARV_XCLEAR_NO	297	40
WRMIARV_XCOND_YES	295	80
WRMIARV_XCONTROL_AUTH	295	20
WRMIARV_XCONVERT_FROMGUARD	297	2
WRMIARV_XCONVERT_TOGUARD	297	4
WRMIARV_XCONVERTSIZE	2D4	
WRMIARV_XCONVERTSIZE64	2F0	
WRMIARV_XCONVERTSTART	2E8	
WRMIARV_XDETACHFIXED_YES	30A	20
WRMIARV_XDISCARDPAGES_YES	0	4
WRMIARV_XDMAPAGETABLE	328	
WRMIARV_XDOAUTHCHECKS_YES	30A	10
WRMIARV_XDUMP	30C	
WRMIARV_XDUMP_ALL	30C	FF
WRMIARV_XDUMP_LIKECSA	30C	3
WRMIARV_XDUMP_LIKELSQA	30C	21
WRMIARV_XDUMP_LIKERGN	30C	20
WRMIARV_XDUMP_LIKESQA	30C	2
WRMIARV_XDUMP_NO	30C	1
WRMIARV_XDUMP_NONE	30C	0
WRMIARV_XDUMPPRIORITY	308	
WRMIARV_XDUMPPROTOCOL_YES	309	80
WRMIARV_XEXECUTABLE_NO	0	1
WRMIARV_XEXECUTABLE_YES	0	2
WRMIARV_XFLAGS0	292	



Table 292. Cross Reference for \$WARMWRK (continued)

Name	Offset	Hex Tag
WRMIARV_XFLAGS1	294	
WRMIARV_XFLAGS10	339	
WRMIARV_XFLAGS11	33A	
WRMIARV_XFLAGS2	295	
WRMIARV_XFLAGS3	296	
WRMIARV_XFLAGS4	297	
WRMIARV_XFLAGS5	309	
WRMIARV_XFLAGS6	30A	
WRMIARV_XFLAGS7	30B	
WRMIARV_XFLAGS8	30D	
WRMIARV_XFLAGS9	338	
WRMIARV_XFPROT_NO	295	40
WRMIARV_XGUARDLOC_HIGH	295	10
WRMIARV_XGUARDSIZE	2D0	
WRMIARV_XGUARDSIZE64	2F8	
WRMIARV_XINADDR	2C8	
WRMIARV_XINORIGIN	2C8	
WRMIARV_XKEEPREAL_NO	297	1
WRMIARV_XKEY	293	
WRMIARV_XLOCALSYSAREA_YES	30A	8
WRMIARV_XLONG_NO	297	80
WRMIARV_XMATCH_MOTOKEN	292	20
WRMIARV_XMATCH_USERTOKEN	296	80
WRMIARV_XMEMLIMIT_COND	30A	1
WRMIARV_XMEMLIMIT_NO	30A	40
WRMIARV_XMEMOBJSTART	2C8	
WRMIARV_XMOTKN	2B0	
WRMIARV_XMOTKNCREATOR_SYSTEM	292	40
WRMIARV_XMOTKNSOURCE_SYSTEM	292	80
WRMIARV_XNUMRANGE	2DC	
WRMIARV_XOBJECTTYPE_POOL	33A	40
WRMIARV_XOBJECTTYPE_RSMINTERNAL	33A	20
WRMIARV_XOPTIONVALUE	310	
WRMIARV_XORDER_DUMPRIORITY	309	40
WRMIARV_XORIGIN	2B8	
WRMIARV_XOUTMOTKN	2B0	
WRMIARV_XOWNER_NO	296	10
WRMIARV_XOWNERASID	30E	
WRMIARV_XOWNERCOM_BYASID	309	1



Table 292. Cross Reference for \$WARMWRK (continued)

Name	Offset	Hex Tag
WRMIARV_XOWNERCOM_HOME	309	8
WRMIARV_XOWNERCOM_PRIMARY	309	4
WRMIARV_XOWNERCOM_SYSTEM	309	2
WRMIARV_XOWNERJOBNAME	319	
WRMIARV_XPAGEFRAMESIZE_ALL	295	1
WRMIARV_XPAGEFRAMESIZE_DREF1MEG	0	40
WRMIARV_XPAGEFRAMESIZE_MAX	295	2
WRMIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	30D	80
WRMIARV_XPAGEFRAMESIZE_1M	338	10
WRMIARV_XPAGEFRAMESIZE_1MEG	295	4
WRMIARV_XPAGEFRAMESIZE_2G	338	8
WRMIARV_XRANGLIST	2C0	
WRMIARV_XREQUEST	291	
WRMIARV_XREQUEST_CHANGEACCESS	291	B
WRMIARV_XREQUEST_CHANGEATTRIBUTE	291	13
WRMIARV_XREQUEST_CHANGEGUARD	291	D
WRMIARV_XREQUEST_COUNTPAGES	291	10
WRMIARV_XREQUEST_DETACH	291	3
WRMIARV_XREQUEST_DISCARDATA	291	7
WRMIARV_XREQUEST_GETCOMMON	291	F
WRMIARV_XREQUEST_GETSHARED	291	2
WRMIARV_XREQUEST_GETSTOR	291	1
WRMIARV_XREQUEST_LIST	291	E
WRMIARV_XREQUEST_PAGEFIX	291	4
WRMIARV_XREQUEST_PAGEIN	291	8
WRMIARV_XREQUEST_PAGEOUT	291	6
WRMIARV_XREQUEST_PAGEUNFIX	291	5
WRMIARV_XREQUEST_PCIEFIX	291	11
WRMIARV_XREQUEST_PCIEUNFIX	291	12
WRMIARV_XREQUEST_PROTECT	291	9
WRMIARV_XREQUEST_SHAREMEMOBJ	291	A
WRMIARV_XREQUEST_UNPROTECT	291	C
WRMIARV_XRSV0001	311	
WRMIARV_XRSV0004	321	
WRMIARV_XRSV0005	33B	
WRMIARV_XSADMP_NO	0	10
WRMIARV_XSADMP_YES	0	20
WRMIARV_XSEGMENTS	298	
WRMIARV_XSENSITIVE_NO	339	20



Table 292. Cross Reference for \$WARMWRK (continued)

Name	Offset	Hex Tag
WRMIARV_XSENSITIVE_YES	339	40
WRMIARV_XSVCDUMPRGN_ALL	296	1
WRMIARV_XSVCDUMPRGN_NO	296	4
WRMIARV_XTRACKINFO_YES	30B	2
WRMIARV_XTTOKEN	2A0	
WRMIARV_XTYPE_DREF	309	10
WRMIARV_XTYPE_FIXED	338	4
WRMIARV_XTYPE_PAGEABLE	309	20
WRMIARV_XUNITS	330	
WRMIARV_XUNITSIZE_1M	338	40
WRMIARV_XUNITSIZE_2G	338	20
WRMIARV_XUNLOCKED_YES	30B	1
WRMIARV_XUSERTKN	2B0	
WRMIARV_XUSERTOKEN	300	
WRMIARV_XUSE2GT032G_YES	296	20
WRMIARV_XUSE2GT064G_YES	0	8
WRMIARV_XVERSION	290	
WRMIARV_XVIEW_HIDDEN	297	8
WRMIARV_XVIEW_READONLY	297	20
WRMIARV_XVIEW_SHAREDWRITE	297	10
WRMIARV_XV64COMMON_NO	30A	80
WRMIARV_XV64LISTLENGTH	2E4	
WRMIARV_XV64LISTPTR	2E0	
WRMIARV_XV64SELECT_NO	296	8
WRMIARV_XV64SHARED_NO	296	2
WRMIARVL	340	B0
WRMIOTBF	174	
WRMI64GR	348	
WRMI64SG	340	
WRMJCTBF	170	
WRMJQE	1A4	
WRMJQEFA	1FC	
WRMJQE0F	1A8	
WRMMASTB	1E4	
WRMMOCUR	184	
WRMMONXT	180	
WRMMTTR	178	
WRMNRDAU	1D4	
WRMOTHER	194	



Table 292. Cross Reference for \$WARMWRK (continued)

Name	Offset	Hex Tag
WRMPCEWS	358	208
WRMQECB	200	
WRMQREPL	218	40404040
WRMRGDC	350	
WRMSDOWN	1CC	0
WRMSTAT1	1E0	
WRMSUMSK	1AC	
WRMTGMA	160	
WRMTGML	168	
WRMTGMSZ	16C	
WRMTGRSZ	1F8	
WRMTGSBM	1F2	
WRMTGSRC	1F3	
WRMTIMES	1E8	0
WRMTQE	150	
WRMTYPE	1DE	
WRMWCA	190	
WRMWMQT	188	
WRMWSJQE	1A0	
WRM1CLSQ	1D7	4
WRM1HLDQ	1D7	1
WRM1JQEJ	1D7	2
WRM1PCED	1D7	40
WRM1PCEM	1D7	80
WRM1RDER	1D7	8
WRM1RERD	1D7	20
WRM1UNSP	1D7	10
WRM2JERR	1DC	4
WRM2MTTR	1DC	1
WRM2NBSY	1DC	8
WRM2NSPL	1DC	20
WRM2PURG	1DC	40
WRM2QREM	1DC	2
WRM2STRT	1DC	10
WRM2TEST	1DC	80
WRM3DAUG	1DD	40
WRM3DUPS	1DD	2
WRM3LOCK	1DD	4
WRM3MACT	1DD	20



Table 292. Cross Reference for \$WARMWRK (continued)

Name	Offset	Hex Tag
WRM3NICN	1DD	10
WRM3PJ0E	1DD	8
WRM3RJ0E	1DD	1
WRM3SI0T	1DD	80
WRM4ALIC	1DF	10
WRM4AMWS	1DF	20
WRM4DONE	1DF	8
WRM4E58S	1DF	80
WRM4FAIL	1DF	1
WRM4JL0K	1DF	4
WRM4NQIK	1DF	40
WRM5J0DL	1E1	80
WRM5NXST	1E1	40
WRM5RSTR	1E1	20

## \$WAVE information

### \$WAVE programming interface information

\$WAVE is a programming interface.

### \$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 mapping

Table 293. Structure WAVE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	WAVE	
0	(0)	CHARACTER	4	WAVEID	Control block ID
4	(4)	ADDRESS	1	WAVLEVEL	Control block version
		.... ...1		WAVERSN	"X'01'" Control block version equate
5	(5)	BITSTRING	1	WAVEPRIO	Priority of request
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	4	WAVESQD	Address of SQD
12	(C)	SIGNED	4	WAVRETC	\$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	WAVFUNC	Function code Exits 36/37
37	(25)	BITSTRING	3		Reserved
40	(28)	ADDRESS	4	WAVJMSKA	Job mask address for Exit 36/37
44	(2C)	BITSTRING	1	WAVEXITP	Exit 36/37 indicators
		1... ....		WAVXJ2C	"B'10000000'" \$SEAS JES2 coder
		.1.. ....		WAVXUSR	"B'01000000'" \$SEAS user coder
		..1. ....		WAVXMSG	"B'00100000'" Message addr for \$HASPO77
		...1 ....		WAVXFNC	"B'00010000'" Function code for \$HASPO77
45	(2D)	SIGNED	1	WAVREQST	Request indicators
45	(2D)	X'1'	0	WAVRAUTH	"1" RACROUTE REQUEST=AUTH
45	(2D)	X'2'	0	WAVRTBLD	"2" RACROUTE REQUEST=TOKENBLD
45	(2D)	X'3'	0	WAVRTMAP	"3" RACROUTE REQUEST=TOKENMAP
45	(2D)	X'4'	0	WAVRTXTR	"4" RACROUTE REQUEST=TOKENXTR
45	(2D)	X'5'	0	WAVRVFYX	"5" RACROUTE REQUEST=VERIFYX
45	(2D)	X'6'	0	WAVRVFYC	"6" RACROUTE REQUEST=VERIFY CREATE
45	(2D)	X'7'	0	WAVRVFYD	"7" RACROUTE REQUEST=VERIFY DELETE
45	(2D)	X'8'	0	WAVRCMD	"8" CMDAUTH SERVICE
45	(2D)	X'9'	0	WAVRXTRT	"9" RACROUTE REQUEST=EXTRACT
45	(2D)	X'A'	0	WAVRAUD	"10" RACROUTE REQUEST=AUDIT
45	(2D)	X'B'	0	WAVRXTRB	"11" RACROUTE REQUEST=EXTRACT, BRANCH=YES
45	(2D)	X'C'	0	WAVRDIRA	"12" RACROUTE REQUEST=DIRAUTH
46	(2E)	BITSTRING	2		Reserved for future use



Table 293. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	SIGNED	4	(0)	
48	(30)	BITSTRING	1	WAVFLAG1	Flags
		1... ..		WAV1SUBF	"B'10000000'" Subtasked \$RACROUT failed
		.1... ..		WAV1WAIT	"B'01000000'" WAIT=YES requested
		.... ..1.		WAV1NCOD	"B'00000010'" User return code to be used
		.... ..1		WAV1BYPS	"B'00000001'" SAF call to be bypassed
49	(31)	BITSTRING	3		Reserved
52	(34)	SIGNED	4	WAVEXTLA	Address of extract list
56	(38)	BITSTRING	4		Reserved
60	(3C)	SIGNED	4	(0)	Align user reserved word
60	(3C)	BITSTRING	4	WAVURSV	Reserved for user
64	(40)	SIGNED	4	WAVRACRP(0)	Parameter lists
RACROUTE REQUEST=AUTH,MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1593A	"*"
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		



Table 293. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01602	"*"
168	(A8)	ADDRESS	1	IHB1593C	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		Flag3
181	(B5)	ADDRESS	3		
184	(B8)	ADDRESS	4		- OLD VOLSER ADDR FIELD
188	(BC)	ADDRESS	4		- APPL ADDRESS
192	(C0)	ADDRESS	4		- ACEE ADDRESS
196	(C4)	ADDRESS	4		- OWNER ADDRESS.
200	(C8)	ADDRESS	4		ADDRESS OF INSTALLATION DATA
204	(CC)	ADDRESS	4		ENTITY OR PROFILE ADDRESS FIELD
208	(D0)	ADDRESS	4		CLASS NAME ADDRESS FIELD
212	(D4)	ADDRESS	4		VOLSER ADDR FIELD
216	(D8)	ADDRESS	4		- ACCESS VALUE ADDRESS.
220	(DC)	ADDRESS	4		- 2ND ACCESS ADDRESS.
224	(E0)	ADDRESS	2		FILESEQ
226	(E2)	BITSTRING	1		
227	(E3)	BITSTRING	1		
228	(E4)	ADDRESS	4		- USER NAME ADDRESS
232	(E8)	ADDRESS	4		- GROUP NAME ADDRESS
236	(EC)	ADDRESS	4		- DDNAME ADDRESS
240	(F0)	ADDRESS	4		- RESERVED
244	(F4)	ADDRESS	4		- UTOKEN ADDRESS
248	(F8)	ADDRESS	4		- RTOKEN ADDRESS
252	(FC)	ADDRESS	4		- LOGSTR ADDRESS
256	(100)	ADDRESS	4		- RECEIVER ADDRESS
RACROUTE REQUEST=TOKENBLD,MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1603A	"*"
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



Table 293. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
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	ICH01612	"*
168	(A8)	ADDRESS	1	IHB1603C	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



Table 293. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
226	(E2)	BITSTRING	1		MISC FLAG (INITFLG3)
227	(E3)	ADDRESS	1		FUTURE USE
228	(E4)	ADDRESS	4		- SECLABL ADDRESS FIELD
232	(E8)	ADDRESS	4		- EXENODE ADDRESS FIELD
236	(EC)	ADDRESS	4		- SUSERID ADDRESS FIELD
240	(F0)	ADDRESS	4		- SNODE ADDRESS FIELD
244	(F4)	ADDRESS	4		- SGROUP ADDRESS FIELD
248	(F8)	ADDRESS	4		- POE ADDRESS FIELD
252	(FC)	ADDRESS	4		- INPUT TOKEN ADDRESS
256	(100)	ADDRESS	4		- STOKEN ADDRESS FIELD
260	(104)	ADDRESS	4		- LOGSTR ADDRESS FIELD
264	(108)	ADDRESS	4		- OUTPUT TOKEN ADDRESS
RACROUTE REQUEST=TOKENMAP, MF=L, RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1613A	"*"
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		



Table 293. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	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	ICH01622	"*"
168	(A8)	ADDRESS	4	IHB1613C	- 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	ICH1622A(0)	
RACROUTE REQUEST=TOKENXTR,MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1623A	"*"
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		



Table 293. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	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	ICH01632	"*"
168	(A8)	ADDRESS	4	IHB1623C	- 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	ICH1632A(0)	
RACROUTE REQUEST=VERIFYX,MF=L,RELEASE=7730					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1633A	"*"
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 7730
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		



Table 293. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	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	ICH01642	"*"
168	(A8)	ADDRESS	1	IHB1633C	LIST LENGTH
169	(A9)	ADDRESS	1		NO SUBPOOL SPECIFIED
170	(AA)	BITSTRING	1		
171	(AB)	BITSTRING	1		
172	(AC)	ADDRESS	4		- USERID ADDRESS FIELD
176	(B0)	ADDRESS	4		- PASSWORD ADDRESS FIELD
180	(B4)	ADDRESS	4		- PROCEDURE NAME ADDR FIELD
184	(B8)	ADDRESS	4		- INSTALLATION PARAMETERS ADDRESS
188	(BC)	ADDRESS	4		- GROUP ADDRESS FIELD
192	(C0)	ADDRESS	4		- NEW PASSWORD ADDRESS FIELD
196	(C4)	ADDRESS	4		- PGMNAME ADDRESS FIELD
200	(C8)	ADDRESS	4		- ACTINFO ADDRESS FIELD
204	(CC)	ADDRESS	4		- OIICARD ADDRESS FIELD
208	(D0)	ADDRESS	4		- TERMID ADDRESS FIELD
212	(D4)	ADDRESS	4		- JOBNAME ADDRESS FIELD
216	(D8)	ADDRESS	4		- APPL ADDRESS FIELD
220	(DC)	ADDRESS	4		- ACEE ADDRESS FIELD
224	(E0)	ADDRESS	1		SESSION
225	(E1)	BITSTRING	1		FLAG2
226	(E2)	BITSTRING	1		MISC FLAG (INITFLG3)
227	(E3)	ADDRESS	1		FUTURE USE
228	(E4)	ADDRESS	4		- SECLABL ADDRESS FIELD
232	(E8)	ADDRESS	4		- EXENODE ADDRESS FIELD
236	(EC)	ADDRESS	4		- SUSERID ADDRESS FIELD
240	(F0)	ADDRESS	4		- SNODE ADDRESS FIELD
244	(F4)	ADDRESS	4		- SGROUP ADDRESS FIELD
248	(F8)	ADDRESS	4		- POE ADDRESS FIELD
252	(FC)	ADDRESS	4		- INPUT TOKEN ADDRESS
256	(100)	ADDRESS	4		- STOKEN ADDRESS FIELD
260	(104)	ADDRESS	4		- LOGSTR ADDRESS FIELD
264	(108)	ADDRESS	4		- OUTPUT TOKEN ADDRESS
268	(10C)	ADDRESS	4		- ENVRIN ADDRESS
272	(110)	ADDRESS	4		- ENVROUT ADDRESS
276	(114)	ADDRESS	4		- POENET ADDRESS FIELD
280	(118)	ADDRESS	4		- X500NAME FIELD
284	(11C)	ADDRESS	4		- RESERVED
288	(120)	ADDRESS	4		- SERVAUTH FIELD
292	(124)	ADDRESS	4		- PHRASE ADDRESS FIELD
296	(128)	ADDRESS	4		- NEWPHRASE ADDRESS FIELD
300	(12C)	ADDRESS	4		- ICTX ADDRESS FIELD



Table 293. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
RACROUTE REQUEST=VERIFY,ENVIR=CREATE,MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1643A	"*"
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	ICH01652	"*"
168	(A8)	ADDRESS	1	IHB1643C	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



Table 293. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
188	(BC)	ADDRESS	4		- GROUP ADDRESS FIELD
192	(C0)	ADDRESS	4		- NEW PASSWORD ADDRESS FIELD
196	(C4)	ADDRESS	4		- PGMNAME ADDRESS FIELD
200	(C8)	ADDRESS	4		- ACTINFO ADDRESS FIELD
204	(CC)	ADDRESS	4		- OI DCARD ADDRESS FIELD
208	(D0)	ADDRESS	4		- TERMID ADDRESS FIELD
212	(D4)	ADDRESS	4		- JOBNAME ADDRESS FIELD
216	(D8)	ADDRESS	4		- APPL ADDRESS FIELD
220	(DC)	ADDRESS	4		- ACEE ADDRESS FIELD
224	(E0)	ADDRESS	1		SESSION
225	(E1)	BITSTRING	1		FLAG2
226	(E2)	BITSTRING	1		MISC FLAG (INITFLG3)
227	(E3)	ADDRESS	1		FUTURE USE
228	(E4)	ADDRESS	4		- SECLABL ADDRESS FIELD
232	(E8)	ADDRESS	4		- EXENODE ADDRESS FIELD
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
RACROUTE REQUEST=VERIFY, ENVIR=DELETE, MF=L, RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1653A	"*"
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



Table 293. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
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	ICH01662	"*"
168	(A8)	ADDRESS	1	IHB1653C	LIST LENGTH
169	(A9)	ADDRESS	1		NO SUBPOOL SPECIFIED
170	(AA)	BITSTRING	1		
171	(AB)	BITSTRING	1		
172	(AC)	ADDRESS	4		- USERID ADDRESS FIELD
176	(B0)	ADDRESS	4		- PASSWORD ADDRESS FIELD
180	(B4)	ADDRESS	4		- PROCEDURE NAME ADDR FIELD
184	(B8)	ADDRESS	4		- INSTALLATION PARAMETERS ADDRESS
188	(BC)	ADDRESS	4		- GROUP ADDRESS FIELD
192	(C0)	ADDRESS	4		- NEW PASSWORD ADDRESS FIELD
196	(C4)	ADDRESS	4		- PGMNAME ADDRESS FIELD
200	(C8)	ADDRESS	4		- ACTINFO ADDRESS FIELD
204	(CC)	ADDRESS	4		- OIICARD ADDRESS FIELD
208	(D0)	ADDRESS	4		- TERMID ADDRESS FIELD
212	(D4)	ADDRESS	4		- JOBNAME ADDRESS FIELD
216	(D8)	ADDRESS	4		- APPL ADDRESS FIELD
220	(DC)	ADDRESS	4		- ACEE ADDRESS FIELD
224	(E0)	ADDRESS	1		SESSION
225	(E1)	BITSTRING	1		FLAG2
226	(E2)	BITSTRING	1		MISC FLAG (INITFLG3)
227	(E3)	ADDRESS	1		FUTURE USE
228	(E4)	ADDRESS	4		- SECLABL ADDRESS FIELD
232	(E8)	ADDRESS	4		- EXENODE ADDRESS FIELD
236	(EC)	ADDRESS	4		- SUSERID ADDRESS FIELD
240	(F0)	ADDRESS	4		- SNODE ADDRESS FIELD
244	(F4)	ADDRESS	4		- SGROUP ADDRESS FIELD
248	(F8)	ADDRESS	4		- POE ADDRESS FIELD
252	(FC)	ADDRESS	4		- INPUT TOKEN ADDRESS
256	(100)	ADDRESS	4		- STOKEN ADDRESS FIELD
260	(104)	ADDRESS	4		- LOGSTR ADDRESS FIELD



Table 293. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
264	(108)	ADDRESS	4		- OUTPUT TOKEN ADDRESS
RACROUTE REQUEST=EXTRACT,TYPE=EXTRACT,MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1663A	"*"
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	IHB1663C(0)	
168	(A8)	SIGNED	4	ICH1672A(0)	
168	(A8)	ADDRESS	2		LENGTH OF LIST IN BYTES
170	(AA)	BITSTRING	1		FUNCTION CODE FOR ICHRSV00
171	(AB)	ADDRESS	1		REQUEST TYPE
172	(AC)	ADDRESS	1		VERSION NUMBER
173	(AD)	BITSTRING	1		
174	(AE)	ADDRESS	2		OFFSET TO VARIABLE PART OF LIST



Table 293. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
176	(B0)	ADDRESS	4		
176	(B0)	X 'B4'	0	ICH1672B	"*" 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	ICH1672C(0)	END OF PARAMETER LIST
212	(D4)	SIGNED	2	ICH1672D(0)	
RACROUTE REQUEST=EXTRACT,TYPE=EXTRACT,BRANCH=YES, MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X '40'	0	IHB1681A	"*"
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		



Table 293. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
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	IHB1681C(0)	
168	(A8)	SIGNED	4	ICH1690A(0)	
168	(A8)	ADDRESS	2		LENGTH OF LIST IN BYTES
170	(AA)	BITSTRING	1		FUNCTION CODE FOR ICHRSV00
171	(AB)	ADDRESS	1		REQUEST TYPE
172	(AC)	ADDRESS	1		VERSION NUMBER
173	(AD)	BITSTRING	1		
174	(AE)	ADDRESS	2		OFFSET TO VARIABLE PART OF LIST
176	(B0)	ADDRESS	4		
176	(B0)	X'B4'	0	ICH1690B	"*" 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	ICH1690C(0)	END OF PARAMETER LIST
212	(D4)	SIGNED	2	ICH1690D(0)	
RACROUTE REQUEST=AUDIT,MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1699A	"*"
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



Table 293. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
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	IHB1699C(0)	START OF RACAUDIT PLIST
168	(A8)	ADDRESS	2	ICH1708B	VERSION
170	(AA)	ADDRESS	2		LENGTH
172	(AC)	ADDRESS	4		
176	(B0)	ADDRESS	2		EVENT QUALIFIER
178	(B2)	ADDRESS	2		RESERVED
180	(B4)	ADDRESS	4		
184	(B8)	ADDRESS	4		
188	(BC)	ADDRESS	4		
192	(C0)	ADDRESS	4		
196	(C4)	ADDRESS	1		RESULT BYTE
197	(C5)	ADDRESS	3		RESERVED
200	(C8)	SIGNED	4	(4)	RESERVED
216	(D8)	SIGNED	2	ICH1708F(0)	END OF RACAUDIT PLIST
RACROUTE REQUEST=DIRAUTH, RESCSECLABEL=, RELEASE=7740, MF=L					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1714A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 7740
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		



Table 293. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
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	ICH01723	"*"
168	(A8)	BITSTRING	1	IHB1714C	LOG value
169	(A9)	ADDRESS	1		Parmlist version
170	(AA)	ADDRESS	2		Parmlist length
172	(AC)	ADDRESS	4		- ROKEN Address
176	(B0)	BITSTRING	1		TYPE Value
177	(B1)	BITSTRING	1		ACCESS Value
178	(B2)	BITSTRING	1	(2)	Reserved
180	(B4)	ADDRESS	4		Classname address
184	(B8)	ADDRESS	4		RESCSECLABEL address
188	(BC)	ADDRESS	4		USERSECLABEL address
192	(C0)	ADDRESS	4		ACEE address
196	(C4)	ADDRESS	4		ACEEALET address
200	(C8)	ADDRESS	4		LOGSTR address
Parameters for use with CMDAUTH Parm area used with \$SEAS call					
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



Table 293. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		WAVCNTRL	"B'00001000'" Control (system)
		.... .1..		WAVCUPD	"B'00000100'" Update (job, device)
		.... ..1.		WAVCREAD	"B'00000010'" Read (display)
85	(55)	BITSTRING	3		Reserved
88	(58)	SIGNED	4	WAVCUCMI	UCMID of console responsible for issuing the command
92	(5C)	ADDRESS	4	WAVCMSG	Address of message list (if any) returned by CMDAUTH
List form of CMDAUTH used when calling CMDAUTH Generated label on equate for length will be WAVCALN CMDAUTH MF=(L,WAVCA,NODSECT)					
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
Parameters for R_Usermap service (IRRSIM00)					
Parameter list					
64	(40)	ADDRESS	4	WAVMPARM(13)	R_Usermap parameter list
Values for parameters					
116	(74)	SIGNED	4	WAVMALET	ALET for parameters
120	(78)	SIGNED	4	WAVMDUM	Dummy entity (zeroes)
124	(7C)	SIGNED	2	WAVMFUNC	Function code
304	(130)	SIGNED	4	(0)	Alignment
304	(130)	X'F0'	0	WAVRACLN	"*-WAVRACRP" Length of longest parm list
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.)					
304	(130)	SIGNED	2	WAVRNAMS(0)	
304	(130)	CHARACTER	53	WAVRSRCN(0)	Max. resource name length
304	(130)	CHARACTER	8	WAVRNODE	Nodename portion
312	(138)	CHARACTER	1	WAVRSEP1	separator



Table 293. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
313	(139)	CHARACTER	44	WAVRDSNM	DSNAME portion
313	(139)	X'35'	0	WAVRSRCL	"*-WAVRSRCN" Resource name length
304	(130)	CHARACTER	53	WAVRJNAM	JESSPOOL Resource name
304	(130)	CHARACTER	63	WAVRINAM	ISFAUTH Resource name
304	(130)	CHARACTER	8	WAVRDCLS	DCT SECLABEL extract class
312	(138)	CHARACTER	39	WAVRDNAM	and resource name
304	(130)	CHARACTER	8	WAVSECLB	Seclabel for DIRAUTH
304	(130)	CHARACTER	48	WAVRENTY(0)	Extract Entity mapping
304	(130)	SIGNED	4	WAVRELEN	Length of Extract Entity
308	(134)	CHARACTER	44	WAVRENTN	Extract Entity name
368	(170)	DBL WORD	8	(0)	Ensure doubleword alignment
368	(170)	CHARACTER	1024	WAVRRWK	Work area for RACF services
368	(170)	CHARACTER	1012		
1380	(564)	BITSTRING	12	WAVFLDS(0)	Extract Fields List
1380	(564)	SIGNED	4	WAVFLDCT	Count of fields to extract
1384	(568)	CHARACTER	8	WAVFLD1	First (and only) extract field
1392	(570)	DBL WORD	8	WAVEND(0)	Ensure WAVE ends on a dblw
1392	(570)	X'570'	0	WAVLEN	"WAVEND-WAVE" Length of WAVE

Table 294. Cross Reference for \$WAVE

Name	Offset	Hex Tag
ICH01602	A8	A8
ICH01612	A8	A8
ICH01622	A8	A8
ICH01632	A8	A8
ICH01642	A8	A8
ICH01652	A8	A8
ICH01662	A8	A8
ICH01723	A8	A8
ICH1622A	C0	
ICH1632A	C0	
ICH1672A	A8	
ICH1672B	B0	B4
ICH1672C	D4	
ICH1672D	D4	
ICH1690A	A8	
ICH1690B	B0	B4
ICH1690C	D4	
ICH1690D	D4	
ICH1708B	A8	
ICH1708F	D8	



Table 294. Cross Reference for \$WAVE (continued)

Name	Offset	Hex Tag
IHB1593A	40	40
IHB1593C	A8	
IHB1603A	40	40
IHB1603C	A8	
IHB1613A	40	40
IHB1613C	A8	
IHB1623A	40	40
IHB1623C	A8	
IHB1633A	40	40
IHB1633C	A8	
IHB1643A	40	40
IHB1643C	A8	
IHB1653A	40	40
IHB1653C	A8	
IHB1663A	40	40
IHB1663C	A8	
IHB1681A	40	40
IHB1681C	A8	
IHB1699A	40	40
IHB1699C	A8	
IHB1714A	40	40
IHB1714C	A8	80
WAVCA	60	
WAVCACL	54	
WAVCALN	80	2C
WAVCARTA	50	
WAVCA01	60	
WAVCA02	64	
WAVCA03	65	
WAVCA04	66	
WAVCA05	67	
WAVCA06	68	
WAVCA07	6C	
WAVCA08	70	
WAVCA09	74	
WAVCA10	78	
WAVCA11	7C	
WAVCA12	80	
WAVCCRN	40	



Table 294. Cross Reference for \$WAVE (continued)

Name	Offset	Hex Tag
WAVCMMSG	5C	
WAVCNTRL	54	8
WAVCREAD	54	2
WAVCSSCM	4C	
WAVCTKN	44	
WAVCTXT	48	
WAVCUCMI	58	
WAVCUPD	54	4
WAVE	0	
WAVEID	0	E6C1E5C5
WAVEND	570	
WAVEPRIO	5	
WAVERSN	4	1
WAVESQD	8	
WAVEXITP	2C	
WAVEXTLA	34	
WAVFLAG1	30	
WAVFLDCT	564	
WAVFLDS	564	
WAVFLD1	568	
WAVFUNCD	24	
WAVJMSKA	28	
WAVLEN	570	570
WAVLEVEL	4	
WAVMALET	74	
WAVMDUM	78	
WAVMFUNC	7C	
WAVMPARM	40	
WAVRACCD	18	
WAVRACLN	130	F0
WAVRACRC	14	
WAVRACRP	40	
WAVRAUD	2D	A
WAVRAUTH	2D	1
WAVRCBA	20	
WAVRCBN	1C	
WAVRCMD	2D	8
WAVRDCLS	130	
WAVRDIRA	2D	C



Table 294. Cross Reference for \$WAVE (continued)

Name	Offset	Hex Tag
WAVRDNAM	138	
WAVRDSNM	139	
WAVRELEN	130	
WAVRENTN	134	
WAVRENTY	130	
WAVREQST	2D	
WAVRETC	C	
WAVRINAM	130	
WAVRJNAM	130	
WAVRNAMS	130	
WAVRNODE	130	
WAVRRWK	170	
WAVRSEP1	138	
WAVRSNCD	10	
WAVRSRCL	139	35
WAVSRCN	130	
WAVRTBLD	2D	2
WAVRTMAP	2D	3
WAVRTXTR	2D	4
WAVRVFYC	2D	6
WAVRVFYD	2D	7
WAVRVFYX	2D	5
WAVRXTRB	2D	8
WAVRXTRT	2D	9
WAVSECLB	130	
WAVURSV	3C	
WAVXFNC	2C	10
WAVXJ2C	2C	80
WAVXMSG	2C	20
WAVXUSR	2C	40
WAV1BYP	30	1
WAV1NCOD	30	2
WAV1SUBF	30	80
WAV1WAIT	30	40

## \$WLMD information

### \$WLMD programming interface information

\$WLMD is a programming interface.



## \$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 mapping

Table 295. Structure WLMD

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	WLMD	
0	(0)	CHARACTER	4	WLMID	Eye catcher
4	(4)	BITSTRING	4	WLMCONN	WLM connect token
WLM SVDEF has a value of all FF's if the JESplex is using a WLM default service definition on each member.					
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)	BITSTRING	32	WLM CKVSV	WLM service definition ID for checkpoint version
104	(68)	CHARACTER	16	WLMJTOK	Our Sysplex wide unique WLM token
120	(78)	BITSTRING	1	WLMFLAG1	Flags
		1... ....		WLM1DEF	"B'10000000'" WLM CURSV is a WLM default
121	(79)	BITSTRING	3		Reserved for future use
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.					
124	(7C)	ADDRESS	4	WLMJSDSR	Address of IAZDSERV area
128	(80)	ADDRESS	4	WLMJSBQS	Address of IRABQS area
132	(84)	SIGNED	4	WLMJBQSZ	Size of DSERV/BQS/DJB



Table 295. Structure WLM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
136	(88)	ADDRESS	4	WLMJSWRK	Work area address
140	(8C)	SIGNED	4	WLMJSWLN	Work area length
Work areas used by WLMGOALS and QGET for initiator balancing					
144	(90)	SIGNED	4	WLMGSAFF(0)	Number of single-affinity jobs each member
272	(110)	SIGNED	4	WLMGMAFF(0)	Number of multi-affinity jobs each member
272	(110)	X'90'	0	WLMGCOUN	"WLMGSAFF,*-WLMGSAFF" Composite of all counters
400	(190)	BITSTRING	1	WLMGFLG1	Flags
		.1.. ....		WLMG1PSX	"B'01000000'" \$POSTXEQ required
		..1. ....		WLMG1SM	"B'00100000'" This is single member MAS
		...1 ....		WLMG1DST	"B'00010000'" \$DISTERR was done once
		.... 1...		WLMG1CHK	"B'00001000'" Hourly init count in progress
		.... .1..		WLMG1DEF	"B'00000100'" Hourly count delayed
401	(191)	BITSTRING	3		Reserved for future use
404	(194)	SIGNED	4	WLMGSTON(0)	Stolen counts for current QGET
532	(214)	SIGNED	2	WLMGMAFG	Multi-Aff goal current QGET
534	(216)	SIGNED	2	WLMASID	WLM ASID for future use
536	(218)	ADDRESS	4	WLMGDJBS	Address of first DJB obtained by WLMGOALS
540	(21C)	SIGNED	4	WLMGJQUE	Number of jobs ready to run
544	(220)	BITSTRING	4	WLMGSECT	Selection mask before goal computation
548	(224)	BITSTRING	4	WLMGSECA	Selection mask during goal computation
552	(228)	BITSTRING	4	WLMGWACT	Members that can select WLM work (e.g. not \$P, not \$P XEQ)
556	(22C)	BITSTRING	4	WLMGNISY	Members not in independent mode
560	(230)	SIGNED	4	(2)	Reserved
Data areas for calling WLM services					
568	(238)	DBL WORD	8	WLMDATAD(0)	General double word area
568	(238)	SIGNED	4	WLMDATA1	General data area 1
572	(23C)	SIGNED	4	WLMDATA2	General data area 2
576	(240)	SIGNED	4	WLMDATA3	General data area 3
580	(244)	SIGNED	4	WLMDATA4	General data area 4
580	(244)	X'238'	0	WLMDATAX	"WLMDATA1,16,C'X'" 16 byte work area
584	(248)	SIGNED	4	WLMRETC	WLM service return code
588	(24C)	SIGNED	4	WLMRESCD	WLM service reason code
592	(250)	BITSTRING	1	WMLFUNC	Last function called (used for HASP712 message)
592	(250)	X'1'	0	WLMFCONN	"1" IWMCONN - connect
592	(250)	X'2'	0	WLMFPQRY	"2" IWMPQRY - query policy
592	(250)	X'3'	0	WLMFDISC	"3" IWMDISC - disconnect
592	(250)	X'4'	0	WLMFBREG	"4" IWMBREG - Registration



Table 295. Structure WLM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
592	(250)	X'5'	0	WLMFDREG	"5" IWMBDREG - Deegistration
592	(250)	X'6'	0	WLMFCLAS	"6" IWMCLASFY - Classify
592	(250)	X'7'	0	WLMQWORK	"7" IWMWQRY - query work mgr
593	(251)	BITSTRING	3		Reserved
--BLDM \$BLDMSG MF=L List form of \$BLDMSG					
596	(254)	SIGNED	4	WMLBLDM(0)	Control block ID
600	(258)	BITSTRING	4		Console ID
604	(25C)	ADDRESS	4		Address of the CART
608	(260)	ADDRESS	4		Pointer for JOBID
612	(264)	ADDRESS	4		Control block address
616	(268)	ADDRESS	4		Display routine address
620	(26C)	ADDRESS	4	(6)	6 word work area
644	(284)	ADDRESS	4		Caller's R11 value
648	(288)	BITSTRING	2		ROUT code for Message
650	(28A)	BITSTRING	2		Not used
652	(28C)	CHARACTER	4		Message ID
656	(290)	CHARACTER	1		Separator character
657	(291)	ADDRESS	1		Flag byte 1
658	(292)	ADDRESS	1		'DISPER'
659	(293)	ADDRESS	1		Flag byte 2
660	(294)	ADDRESS	1		Flag byte 3
661	(295)	ADDRESS	1		Severity of message
662	(296)	CHARACTER	8		Symbolic name of dest.
670	(29E)	BITSTRING	14		Not used
684	(2AC)	ADDRESS	4	(0)	Ensure multiple of 4
684	(2AC)	ADDRESS	2	(0)	
0	(0)	X'58'	0	WMLBLDML	"*-WMLBLDM" Length of \$BLDMSG MF=L
684	(2AC)	SIGNED	4	WLMPORG(0)	Org label for inline parm lists
WLM connect					
0	(0)	X'2B0'	0	M00M1595	"WLMCONN" ++ IWMCONN NAME
688	(2B0)	DBL WORD	8	WLMCONN(0)	++ IWMCONN PARM LIST
688	(2B0)	BITSTRING	1	WLMCONN_XVERSION	++ INPUT XVERSION
689	(2B1)	BITSTRING	1	WLMCONN_XCONNECT_OPTIONS	++ FIELD_LABEL
	1... ....			WLMCONN_XCONNTKNKEYP_VALUE	"B'10000000" ++ XCONNTKNKEYP.VALUE KEYWORD
690	(2B2)	CHARACTER	1	WLMCONN_XRSV0002	++ RESERVED
691	(2B3)	BITSTRING	1	WLMCONN_XCONNTKNKEY	++
692	(2B4)	CHARACTER	4	WLMCONN_XSUBSYS	++
696	(2B8)	ADDRESS	4	WLMCONN_XSUBSYSNM_ADDR	++ ADDR
700	(2BC)	CHARACTER	4	WLMCONN_XRSV000C	++ RESERVED
704	(2C0)	SIGNED	4	WLMCONN_XNUMBERASCB	++
708	(2C4)	ADDRESS	4	WLMCONN_XTOPOLOGY_ADDR	++ ADDR
712	(2C8)	CHARACTER	4	WLMCONN_XRSV0018	++ RESERVED



Table 295. Structure WLMD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
716	(2CC)	BITSTRING	4	WLMCONNL_XCONNTKN	++
720	(2D0)	ADDRESS	4	WLMCONNL_XQMGR_EXIT@	++
720	(2D0)	X'2D4'	0	WLMCONNL_PL_END	"*" ++ END OF BASE PLIST
720	(2D0)	X'24'	0	WLMCONNLL	"*-WLMCONNL" ++ LENGTH OF PLIST
WLM Disconnect			IWMCONN-4		
MACDATE -09/12/24-<0>					
0	(0)	X'2B0'	0	M00M1597	"WLMDISCL" ++ IWMDISC NAME
688	(2B0)	DBL WORD	8	WLMDISCL(0)	++ IWMDISC PARM LIST
688	(2B0)	BITSTRING	1	WLMDISCL_XVERSION	++ INPUT XVERSION
689	(2B1)	BITSTRING	1	WLMDISCL_XOPTIONS	++ FIELD_LABEL
690	(2B2)	CHARACTER	2	WLMDISCL_XRSV0002	++ RESERVED
692	(2B4)	BITSTRING	4	WLMDISCL_XCONNTKN	++
696	(2B8)	CHARACTER	4	WLMDISCL_XRSV0008	++ RESERVED
696	(2B8)	X'C'	0	WLMDISCLL	"*-WLMDISCL" ++ LENGTH OF PLIST
WLM policy query			IWMDISC-0		
MACDATE -09/12/24-<0>					
0	(0)	X'2B0'	0	M00M1598	"WLMPQRYL" ++ IWMPQRY NAME
688	(2B0)	DBL WORD	8	WLMPQRYL(0)	++ IWMPQRY PARM LIST
688	(2B0)	BITSTRING	1	WLMPQRYL_XVERSION	++ INPUT XVERSION
689	(2B1)	CHARACTER	3	WLMPQRYL_XRSV0001	++ RESERVED
692	(2B4)	ADDRESS	4	WLMPQRYL_XANSAREA_ADDR	++ ADDR
696	(2B8)	SIGNED	4	WLMPQRYL_XANSAREA_ALET	++ ALET
700	(2BC)	SIGNED	4	WLMPQRYL_XANSLEN	++
704	(2C0)	SIGNED	4	WLMPQRYL_XQUERYLEN	++
708	(2C4)	CHARACTER	4	WLMPQRYL_XRSV0014	++ RESERVED
708	(2C4)	X'18'	0	WLMPQRYLL	"*-WLMPQRYL" ++ LENGTH OF PLIST
WLM queue registration			IWMPQRY-0		
MACDATE -09/12/24-<0>					
0	(0)	X'2B0'	0	M00M1599	"WLMQREG" ++ IWMBREG NAME
688	(2B0)	DBL WORD	8	WLMQREG(0)	++ IWMBREG PARM LIST
688	(2B0)	BITSTRING	1	WLMQREG_XVERSION	++ INPUT XVERSION
689	(2B1)	CHARACTER	1	WLMQREG_XRSV0001	++ RESERVED
690	(2B2)	BITSTRING	2	WLMQREG_XPLISTLEN	++ INPUT
692	(2B4)	CHARACTER	16	WLMQREG_XQTOKEN	++
708	(2C4)	CHARACTER	32	WLMQREG_XSVDEF_ID	++
740	(2E4)	ADDRESS	4	WLMQREG_XAPPLENV_ADDR	++ ADDR
744	(2E8)	CHARACTER	8	WLMQREG_XSRVCLSNM	++
752	(2F0)	SIGNED	4	WLMQREG_XNUMSYS	++



Table 295. Structure WLMD (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
756	(2F4)	CHARACTER	8	WLMQREG_XRSV0044	++ RESERVED
756	(2F4)	X'4C'	0	WLMQREGL	"*-WLMQREG" ++ LENGTH OF PLIST
WLM queue deregistration			IWMBREG-0		
MACDATE -09/12/24-<0>					
0	(0)	X'2B0'	0	M00M1600	"WLMQDREG" ++ IWMBDREG NAME
688	(2B0)	DBL WORD	8	WLMQDREG(0)	++ IWMBDREG PARM LIST
688	(2B0)	BITSTRING	1	WLMQDREG_XVERSION	++ INPUT XVERSION
689	(2B1)	CHARACTER	1	WLMQDREG_XRSV0001	++ RESERVED
690	(2B2)	BITSTRING	2	WLMQDREG_XPLISTLEN	++ INPUT
692	(2B4)	CHARACTER	16	WLMQDREG_XQTOKEN	++
708	(2C4)	BITSTRING	1	WLMQDREG_XDEREG_OPTIONS	++ FIELD_LABEL
		1... ....		WLMQDREG_XTYPE_SPECIFIC	"B'10000000'" ++ XTYPE.SPECIFIC KEYWORD
		.1.. ....		WLMQDREG_XTYPE_ALL	"B'01000000'" ++ XTYPE.ALL KEYWORD
709	(2C5)	CHARACTER	7	WLMQDREG_XRSV0015	++ RESERVED
709	(2C5)	X'1C'	0	WLMQDREGL	"*-WLMQDREG" ++ LENGTH OF PLIST
WLM service class validation			IWMBDREG-0		
MACDATE -09/12/24-<0>					
0	(0)	X'2B0'	0	M00M1601	"WLMBSET" ++ IWMBSET NAME
688	(2B0)	DBL WORD	8	WLMBSET(0)	++ IWMBSET PARM LIST
688	(2B0)	BITSTRING	1	WLMBSET_XVERSION	++ INPUT XVERSION
689	(2B1)	CHARACTER	1	WLMBSET_XRSV001	++ RESERVED
690	(2B2)	BITSTRING	2	WLMBSET_XPLISTLEN	++ INPUT
692	(2B4)	BITSTRING	4	WLMBSET_XSERVCLS	++
696	(2B8)	CHARACTER	8	WLMBSET_XSRVCLSNM	++
704	(2C0)	CHARACTER	4	WLMBSET_XRSV002	++ RESERVED
704	(2C0)	X'14'	0	WLMBSETL	"*-WLMBSET" ++ LENGTH OF PLIST
WLM scheduling environment availability testing			IWMBSET-0		
0	(0)	X'2B0'	0	M00M1602	"WLMBSCHE" ++ IWMSSEDES NAME
688	(2B0)	DBL WORD	8	WLMBSCHE(0)	++ IWMSSEDES PARM LIST
688	(2B0)	BITSTRING	1	WLMBSCHE_XVERSION	++ INPUT XVERSION
689	(2B1)	CHARACTER	1	WLMBSCHE_XRSV0001	++ RESERVED
690	(2B2)	BITSTRING	2	WLMBSCHE_XPLISTLEN	++ INPUT
692	(2B4)	CHARACTER	16	WLMBSCHE_XSCHENV	++
708	(2C4)	CHARACTER	8	WLMBSCHE_XSYSTEM_NAME	++
716	(2CC)	CHARACTER	16	WLMBSCHE_XRSV001C	++ RESERVED
716	(2CC)	X'2C'	0	WLMBSCHEL	"*-WLMBSCHE" ++ LENGTH OF PLIST



Table 295. Structure WLMD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
IWMSEDES-0 WLM scheduling environment definition testing					
MACDATE -09/12/24-<0>					
0	(0)	X'2B0'	0	M00M1603	"WLMSEVAL" ++ IWMSEVAL NAME
688	(2B0)	DBL WORD	8	WLMSEVAL(0)	++ IWMSEVAL PARM LIST
688	(2B0)	BITSTRING	1	WLMSEVAL_XVERSION	++ INPUT XVERSION
689	(2B1)	CHARACTER	1	WLMSEVAL_XRSV0001	++ RESERVED
690	(2B2)	BITSTRING	2	WLMSEVAL_XPLISTLEN	++ INPUT
692	(2B4)	CHARACTER	16	WLMSEVAL_XSCHENV	++
708	(2C4)	CHARACTER	16	WLMSEVAL_XRSV0014	++ RESERVED
708	(2C4)	X'24'	0	WLMSEVALL	"*-WLMSEVAL" ++ LENGTH OF PLIST
IWMSEVAL-0 WLM demand batch inquiry processing					
MACDATE -09/12/24-<0>					
0	(0)	X'2B0'	0	M00M1604	"WLMBLOC" ++ IWMBLOC NAME
688	(2B0)	DBL WORD	8	WLMBLOC(0)	++ IWMBLOC PARM LIST
688	(2B0)	BITSTRING	1	WLMBLOC_XVERSION	++ INPUT XVERSION
689	(2B1)	BITSTRING	1	WLMBLOC_XBLOC_OPTIONS	++ FIELD_LABEL
		1... ..		WLMBLOC_KEYUSED_NUMJOBS	"B'10000000'" ++ KEYUSED.NUMJOBS KEYWORD
		.1... ..		WLMBLOC_KEYUSED_POSONQUE	"B'01000000'" ++ KEYUSED.POSONQUE KEYWORD
690	(2B2)	BITSTRING	2	WLMBLOC_XPLISTLEN	++ INPUT
692	(2B4)	CHARACTER	16	WLMBLOC_XQTOKEN	++
708	(2C4)	ADDRESS	4	WLMBLOC_XSYSTEML_ADDR	++ ADDR
712	(2C8)	SIGNED	4	WLMBLOC_XNUMSYS	++
716	(2CC)	CHARACTER	8	WLMBLOC_XSRVCLSNM	++
724	(2D4)	CHARACTER	8	WLMBLOC_XSYSNAME	++
732	(2DC)	SIGNED	4	WLMBLOC_XNUMJOBS	++
736	(2E0)	SIGNED	4	WLMBLOC_XPOSONQUE	++
736	(2E0)	X'34'	0	WLMBLOCL	"*-WLMBLOC" ++ LENGTH OF PLIST
IWMBLOC-0					
764	(2FC)	SIGNED	4	WLMSNUM	Number of MVS systems
768	(300)	CHARACTER	8	WLMSLIST(0)	List of MVS system names
WLM demand batch request processing					
MACDATE -09/12/24-<0>					
0	(0)	X'2B0'	0	M00M1605	"WLMBREQ" ++ IWMBREQ NAME
688	(2B0)	DBL WORD	8	WLMBREQ(0)	++ IWMBREQ PARM LIST
688	(2B0)	BITSTRING	1	WLMBREQ_XVERSION	++ INPUT XVERSION
689	(2B1)	BITSTRING	1	WLMBREQ_XBREQ_OPTIONS	++ FIELD_LABEL



Table 295. Structure WLMD (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1... ....		WLMREQ_KEYUSED_JOBTOKENL	"B'10000000'" ++ KEYUSED.JOBTOKENL KEYWORD
		.1.. ....		WLMREQ_KEYUSED_NUMJOBS	"B'01000000'" ++ KEYUSED.NUMJOBS KEYWORD
690	(2B2)	BITSTRING	2	WLMREQ_XPLISTLEN	++ INPUT
692	(2B4)	CHARACTER	8	WLMREQ_XJOBTOKEN	++
700	(2BC)	CHARACTER	16	WLMREQ_XQTOKEN	++
716	(2CC)	SIGNED	4	WLMREQ_XNUMJOBS	++
720	(2D0)	ADDRESS	4	WLMREQ_XJOBTOKENL_ADDR	++ ADDR
720	(2D0)	X'24'	0	WLMREQ_L	"*-WLMREQ" ++ LENGTH OF PLIST
				IWMREQ-0	
WLM service class reset processing					
MACDATE -09/12/24-<0>					
0	(0)	X'2B0'	0	M00M1606	"WLMBRST" ++ IWMRESET NAME
688	(2B0)	DBL WORD	8	WLMBRST(0)	++ IWMRESET PARM LIST
688	(2B0)	BITSTRING	1	WLMBRST_XVERSION	++ INPUT XVERSION
689	(2B1)	BITSTRING	1	WLMBRST_XOPTIONS	++ FIELD_LABEL
		1... ....		WLMBRST_KEYUSED_SRVCLASS	"B'10000000'" ++ KEYUSED.SRVCLASS KEYWORD
		.1.. ....		WLMBRST_KEYUSED_PERFORM	"B'01000000'" ++ KEYUSED.PERFORM KEYWORD
		..1. ....		WLMBRST_XFUNCTION QUIESCE	"B'00100000'" ++ XFUNCTION.QUIESCE KEYWORD
		...1 ....		WLMBRST_XFUNCTION_RESUME	"B'00010000'" ++ XFUNCTION.RESUME KEYWORD
		.... 1...		WLMBRST_KEYUSED_JOBNAME	"B'00001000'" ++ KEYUSED.JOBNAME KEYWORD
		.... .1..		WLMBRST_KEYUSED_ASID	"B'00000100'" ++ KEYUSED.ASID KEYWORD
690	(2B2)	BITSTRING	2	WLMBRST_XPLISTLEN	++ INPUT
692	(2B4)	CHARACTER	8	WLMBRST_XJOBNAME	++
700	(2BC)	BITSTRING	2	WLMBRST_XASID	++
702	(2BE)	BITSTRING	2	WLMBRST_XPERFORM	++
704	(2C0)	CHARACTER	8	WLMBRST_XSRVCLASS	++
712	(2C8)	CHARACTER	8	WLMBRST_XUSERID	++
720	(2D0)	CHARACTER	8	WLMBRST_XPRODUCT	++
720	(2D0)	X'28'	0	WLMBRST_L	"*-WLMBRST" ++ LENGTH OF PLIST
				IWMRESET-0	
WLM Work Manager Query Service					
MACDATE -09/12/24-<0>					
0	(0)	X'2B0'	0	M00M1607	"WLMWQRY" ++ IWMWQRY NAME
688	(2B0)	DBL WORD	8	WLMWQRY(0)	++ IWMWQRY PARM LIST
688	(2B0)	BITSTRING	1	WLMWQRY_XVERSION	++ INPUT XVERSION
689	(2B1)	BITSTRING	1	WLMWQRY_XWQRY_OPTIONS	++ FIELD_LABEL
690	(2B2)	CHARACTER	2	WLMWQRY_XRSV0002	++ RESERVED
692	(2B4)	ADDRESS	4	WLMWQRY_XANSAREA_ADDR	++ ADDR



Table 295. Structure WLMD (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
696	(2B8)	SIGNED	4	WLMWQRY_XANSAREA_ALET	++ ALET
700	(2BC)	SIGNED	4	WLMWQRY_XANSLEN	++
704	(2C0)	BITSTRING	4	WLMWQRY_XSERVCLS	++
708	(2C4)	SIGNED	4	WLMWQRY_XQUERYLEN	++
712	(2C8)	CHARACTER	4	WLMWQRY_XRSV0018	++ RESERVED
712	(2C8)	X'1C'	0	WLMWQRYL	"*-WLMWQRY" ++ LENGTH OF PLIST
End of inline parm lists			IWMWQRY-0		
1024	(400)	X'2AC'	0	WLMPARM	"WLMPORG,*-WLMPORG" Label for inline parm lists
1024	(400)	DBL WORD	8	(0)	Double word alignment
1024	(400)	SIGNED	4	WLMICHEK(2)	TOD for next initiator active check
1032	(408)	BITSTRING	256	WLMWORK	Work area for WLM APIs
1288	(508)	DBL WORD	8	(0)	Alignment
1288	(508)	X'508'	0	WLMSIZE	"*-WLMD" Size of bundle

Table 296. Cross Reference for \$WLMD

Name	Offset	Hex Tag
M00M1595	0	2B0
M00M1597	0	2B0
M00M1598	0	2B0
M00M1599	0	2B0
M00M1600	0	2B0
M00M1601	0	2B0
M00M1602	0	2B0
M00M1603	0	2B0
M00M1604	0	2B0
M00M1605	0	2B0
M00M1606	0	2B0
M00M1607	0	2B0
WLMASID	216	
WMLBLDM	254	C2D3C440
WMLBLDML	0	58
WMLBLOC	2B0	
WMLBLOC_KEYUSED_NUMJOBS	2B1	80
WMLBLOC_KEYUSED_POSONQUE	2B1	40
WMLBLOC_XBLOC_OPTIONS	2B1	
WMLBLOC_XNUMJOBS	2DC	
WMLBLOC_XNUMSYS	2C8	
WMLBLOC_XPLISTLEN	2B2	
WMLBLOC_XPOSONQUE	2E0	



Table 296. Cross Reference for \$WLMD (continued)

Name	Offset	Hex Tag
WLMBLOC_XQTOKEN	2B4	
WLMBLOC_XSRVCLSNM	2CC	
WLMBLOC_XSYSNAME	2D4	
WLMBLOC_XSYSTEML_ADDR	2C4	
WLMBLOC_XVERSION	2B0	
WLMBLOCL	2E0	34
WLMBREQ	2B0	
WLMBREQ_KEYUSED_JOBTOKENL	2B1	80
WLMBREQ_KEYUSED_NUMJOBS	2B1	40
WLMBREQ_XBREX_OPTIONS	2B1	
WLMBREQ_XJOBTOKEN	2B4	
WLMBREQ_XJOBTOKENL_ADDR	2D0	
WLMBREQ_XNUMJOBS	2CC	
WLMBREQ_XPLISTLEN	2B2	
WLMBREQ_XQTOKEN	2BC	
WLMBREQ_XVERSION	2B0	
WLMBREQL	2D0	24
WLMBRST	2B0	
WLMBRST_KEYUSED_ASID	2B1	4
WLMBRST_KEYUSED_JOBNAME	2B1	8
WLMBRST_KEYUSED_PERFORM	2B1	40
WLMBRST_KEYUSED_SRVCLASS	2B1	80
WLMBRST_XASID	2BC	
WLMBRST_XFUNCTION QUIESCE	2B1	20
WLMBRST_XFUNCTION_RESUME	2B1	10
WLMBRST_XJOBNAME	2B4	
WLMBRST_XOPTIONS	2B1	
WLMBRST_XPERFORM	2BE	
WLMBRST_XPLISTLEN	2B2	
WLMBRST_XPRODUCT	2D0	
WLMBRST_XSRVCLASS	2C0	
WLMBRST_XUSERID	2C8	
WLMBRST_XVERSION	2B0	
WLMBRSTL	2D0	28
WLMBSCH	2B0	
WLMBSCH_XPLISTLEN	2B2	
WLMBSCH_XRSV0001	2B1	
WLMBSCH_XRSV001C	2CC	
WLMBSCH_XSCHENV	2B4	



Table 296. Cross Reference for \$WLMD (continued)

Name	Offset	Hex Tag
WLMBSCHЕ_XSYSTEM_NAME	2C4	
WLMBSCHЕ_XVERSION	2B0	
WLMBSCHЕL	2CC	2C
WLMBSET	2B0	
WLMBSET_XPLISTLEN	2B2	
WLMBSET_XRSV001	2B1	
WLMBSET_XRSV002	2C0	
WLMBSET_XSERVCLS	2B4	
WLMBSET_XSRVCLSNM	2B8	
WLMBSET_XVERSION	2B0	
WLMBSETL	2C0	14
WLMCKVSV	48	
WLMCONN	4	
WLMCONNL	2B0	
WLMCONNL_PL_END	2D0	2D4
WLMCONNL_XCONNECT_OPTIONS	2B1	
WLMCONNL_XCONNTKN	2CC	
WLMCONNL_XCONNTKNKEY	2B3	
WLMCONNL_XCONNTKNKEYP_VALUE	2B1	80
WLMCONNL_XNUMBERASCB	2C0	
WLMCONNL_XQMGR_EXIT@	2D0	
WLMCONNL_XRSV000C	2BC	
WLMCONNL_XRSV0002	2B2	
WLMCONNL_XRSV0018	2C8	
WLMCONNL_XSUBSYS	2B4	
WLMCONNL_XSUBSYSNM_ADDR	2B8	
WLMCONNL_XTOPOLOGY_ADDR	2C4	
WLMCONNL_XVERSION	2B0	
WLMCONNLL	2D0	24
WLMCURSV	28	
WLMD	0	
WLMDATAD	238	
WLMDATAX	244	238
WLMDATA1	238	
WLMDATA2	23C	
WLMDATA3	240	
WLMDATA4	244	
WLMDISCL	2B0	
WLMDISCL_XCONNTKN	2B4	



Table 296. Cross Reference for \$WLMD (continued)

Name	Offset	Hex Tag
WLMDISCL_XOPTIONS	2B1	
WLMDISCL_XRSV0002	2B2	
WLMDISCL_XRSV0008	2B8	
WLMDISCL_XVERSION	2B0	
WLMDISCLL	2B8	C
WLMFBREG	250	4
WLMFCLAS	250	6
WLMFCONN	250	1
WLMFDISC	250	3
WLMFDREG	250	5
WLMFLAG1	78	
WLMFPQRY	250	2
WLMGCOUN	110	90
WLMGDJBS	218	
WLMGFLG1	190	
WLMGJQUE	21C	
WLMGMAFF	110	
WLMGMAFG	214	
WLMGNISY	22C	
WLMGSAFF	90	
WLMGSECA	224	
WLMGSECT	220	
WLMGSTON	194	
WLMGWACT	228	
WLMG1CHK	190	8
WLMG1DEF	190	4
WLMG1DST	190	10
WLMG1PSX	190	40
WLMG1SM	190	20
WLMICHEK	400	
WLMID	0	
WLMJBQSZ	84	
WLMJSBQS	80	
WLMJSDSR	7C	
WLMJSWLN	8C	
WLMJSWRK	88	
WLMJTOK	68	
WMLFUNC	250	
WLMPARM	400	2AC



Table 296. Cross Reference for \$WLMD (continued)

Name	Offset	Hex Tag
WLMPORG	2AC	
WLMPQRYL	2B0	
WLMPQRYL_XANSAREA_ADDR	2B4	
WLMPQRYL_XANSAREA_ALET	2B8	
WLMPQRYL_XANSLEN	2BC	
WLMPQRYL_XQUERYLEN	2C0	
WLMPQRYL_XRSV0001	2B1	
WLMPQRYL_XRSV0014	2C4	
WLMPQRYL_XVERSION	2B0	
WLMPQRYLL	2C4	18
WLMQDREG	2B0	
WLMQDREG_XDEREG_OPTIONS	2C4	
WLMQDREG_XPLISTLEN	2B2	
WLMQDREG_XQTOKEN	2B4	
WLMQDREG_XRSV0001	2B1	
WLMQDREG_XRSV0015	2C5	
WLMQDREG_XTYPE_ALL	2C4	40
WLMQDREG_XTYPE_SPECIFIC	2C4	80
WLMQDREG_XVERSION	2B0	
WLMQDREGL	2C5	1C
WLMQREG	2B0	
WLMQREG_XAPPL ENV_ADDR	2E4	
WLMQREG_XNUMSYS	2F0	
WLMQREG_XPLISTLEN	2B2	
WLMQREG_XQTOKEN	2B4	
WLMQREG_XRSV0001	2B1	
WLMQREG_XRSV0044	2F4	
WLMQREG_XSRVCLSNM	2E8	
WLMQREG_XSVDEF_ID	2C4	
WLMQREG_XVERSION	2B0	
WLMQREGL	2F4	4C
WLMQWORK	250	7
WLMRESCD	24C	
WLMRETC	248	
WLMSEVAL	2B0	
WLMSEVAL_XPLISTLEN	2B2	
WLMSEVAL_XRSV0001	2B1	
WLMSEVAL_XRSV0014	2C4	
WLMSEVAL_XSCHENV	2B4	



Table 296. Cross Reference for \$WLMD (continued)

Name	Offset	Hex Tag
WLMSEVAL_XVERSION	2B0	
WLMSEVALL	2C4	24
WLM SIZE	508	508
WLM SLIST	300	
WLM SNUM	2FC	
WLM SVDEF	8	
WLM WORK	408	
WLM WQRY	2B0	
WLM WQRY_XANSAREA_ADDR	2B4	
WLM WQRY_XANSAREA_ALET	2B8	
WLM WQRY_XANSLEN	2BC	
WLM WQRY_XQUERYLEN	2C4	
WLM WQRY_XRSV0002	2B2	
WLM WQRY_XRSV0018	2C8	
WLM WQRY_XSERVCLS	2C0	
WLM WQRY_XVERSION	2B0	
WLM WQRY_XWQRY_OPTIONS	2B1	
WLM WQRYL	2C8	1C
WLM1DEF	78	80

## \$WSA information

### \$WSA programming interface information

\$WSA is a programming interface.

### \$WSA heading information

<b>Common name:</b>	Work selection work area
<b>Macro ID:</b>	\$WSA
<b>DSECT name:</b>	WSA
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'WSA ' Offset: WSAID-WSA Length: 4
<b>Storage attributes:</b>	Subpool: 0 Key: 1 Residency: Virtual and real storage anywhere, in the private storage of the JES2 address space.
<b>Size:</b>	See WSALEN
<b>Created by:</b>	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 mapping

Table 297. Structure WSA

Offset Dec	Offset Hex	Type	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	WSACLRST(0)	Put on fullword boundary
152	(98)	CHARACTER	104	WSAWKL1	Save area for exact mtch WS
256	(100)	CHARACTER	104	WSAWKL2	Save area for priority WS
360	(168)	BITSTRING	1	WSADELIM	FLAG BYTE FOR WS LIST BUILD
361	(169)	BITSTRING	1	WSAASLAS	FLAG BYTE FOR AFTER SLASH
362	(16A)	CHARACTER	80	WSASVLST	SAVE AREA FOR WS LIST
442	(1BA)	BITSTRING	1	WSAFLG	INIT AND COMMAND WORK FLAG
444	(1BC)	ADDRESS	4	WSABSTWK	ADDRESS OF BEST WORK FOUND
448	(1C0)	BITSTRING	1	WSACLVAL	VALUE OF CLASS IN WORK LIST
449	(1C1)	BITSTRING	1	WSABCLVL	BEST WORK CLASS VALUE
450	(1C2)	BITSTRING	1	WSAFLAG1	\$#GET WORK FLAG 1
		1... ....		WSA1OPT	"B'10000000'" OPTIONAL CRITERIA FLAG
		.1.. ....		WSA1HOLD	"B'01000000'" HELD OUTPUT SELECTED
		..1. ....		WSA1BEST	"B'00100000'" BEST JOE FOUND FOR SPOF
		...1 ....		WSA1CNET	"B'00010000'" Currently on network Q
		.... 1...		WSA1CHLD	"B'00001000'" Currently on hold Q
		.... .1..		WSA1CLOC	"B'00000100'" Currently on local Q
		.... ..1.		WSA1CRMT	"B'00000010'" Currently on remote Q
		.... ...1		WSA1CUSR	"B'00000001'" Currently on userid Q
450	(1C2)	X'1F'	0	WSA1CURQ	"WSA1CNET+WSA1CHLD+WSA1CLOC+WSA1CRMT+WSA1CUS R" Composition of all Qs
451	(1C3)	BITSTRING	1	WSAFLAG2	\$#GET WORK FLAG 2
		1... ....		WSA2LOC	"B'10000000'" SCANNED LOCAL QUEUE
		.1.. ....		WSA2USE	"B'01000000'" SCANNED USERID QUEUE
		..1. ....		WSA2RMT	"B'00100000'" SCANNED REMOTE QUEUE
		...1 ....		WSA2RQTM	"B'00010000'" TERMINATE REMOTE QUEUE SCAN
		.... 1...		WSA2RQCN	"B'00001000'" CONTINUE REMOTE QUEUE SCAN
		.... .1..		WSA2NQTM	"B'00000100'" SELECT WORK FROM NETWORK Q



Table 297. Structure WSA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... ..1.		WSA2QQTM	"B'00000010'" Terminate current Q scan
		.... ...1		WSA2BSRC	"B'00000001'" Best route code found in current queue
452	(1C4)	BITSTRING	1	WSAFLAG3	\$/GET/\$/POST work flag 3
		1... ....		WSA3GJOA	"B'10000000'" WSAJOA obtained by WSSERV
		.1.. ....		WSA3GJQA	"B'01000000'" JQA obtained by WSSERV rtn
		..1. ....		WSA3GOPT	"B'00100000'" \$/GET optimized get performed
		...1 ....		WSA3JPPS	"B'00010000'" JOE post-screening done
		.... 1...		WSANOOPT	"B'00001000'" \$/GET caller specified optimized - but JOEINDEX index was not active OR JOEINDEX denoted legacy \$/GET must be run
453	(1C5)	BITSTRING	3		Reserved
456	(1C8)	BITSTRING	25	WSABSTV	Best criteria value
481	(1E1)	BITSTRING	25	WSACURV	Current criteria value
506	(1FA)	BITSTRING	26	WSAWRMSK	Highest possible value mask
532	(214)	ADDRESS	4	WSATABS	ADDR OF WS TABLES
		1... ....		WSAUSER	"X'80'" WS USER CRITERION IND
536	(218)	SIGNED	4	WSALLIM	Number of lines chained
540	(21C)	SIGNED	4	WSAPLIM	Number of pages chained
544	(220)	ADDRESS	4	WSACBA(0)	CONTROL BLOCK ADDRESSES
544	(220)	ADDRESS	4	WSAHCT	ADDR OF HCT
548	(224)	ADDRESS	4	WSAUCT	ADDR OF UCT
552	(228)	ADDRESS	4	WSADCT	Address of DCT or zero
556	(22C)	ADDRESS	4	WSAWSP	Address of WSP
560	(230)	ADDRESS	4	WSAWSA	ADDR OF WSA
564	(234)	ADDRESS	4	WSAJQE	ADDR OF JQE
568	(238)	ADDRESS	4	WSAPCE	Addr of PCE
572	(23C)	ADDRESS	4	WSAJCT	ADDR OF JCT
576	(240)	ADDRESS	4	WSAWJOE	ADDR OF WORK JOE
580	(244)	ADDRESS	4	WSACJOE	ADDR OF CHAR-JOE
584	(248)	ADDRESS	4	WSAJOA	ADDR OF JOA
588	(24C)	ADDRESS	4	WSANJHG	GEN SECTION JOB HDR ADDR
592	(250)	ADDRESS	4	WSANJH2	JES2 SECTION JOB HDR ADDR
596	(254)	ADDRESS	4	WSANJHO	OFFLOAD SECTION JOB HDR
600	(258)	ADDRESS	4	WSANJHU	USER SECTION JOB HDR
604	(25C)	ADDRESS	4	WSANJHT	Security Section Job Hdr
608	(260)	ADDRESS	4	WSANDHG	GENERAL SEC DS HDR ADDR
612	(264)	ADDRESS	4	WSANDH2	JES2 SECT OF DS HDR ADDR
616	(268)	ADDRESS	4	WSANDHA	OFFLOAD SECTION DS HDR
620	(26C)	ADDRESS	4	WSANDHS	DATASTREAM SEC OF DS HDR
624	(270)	ADDRESS	4	WSANDHU	USER SECTION DS HDR
628	(274)	ADDRESS	4	WSANDHT	Security Section DS Hdr
632	(278)	ADDRESS	4	WSANJHOX	Affinity section job header



Table 297. Structure WSA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
636	(27C)	SIGNED	4	WSASTCK	High order word of TOD
640	(280)	ADDRESS	4	WSALST	ADDR OF WS LIST
644	(284)	SIGNED	4	WSALSTCR	Maximum number of criteria in WS list
648	(288)	ADDRESS	4	WSANTRT	MVS NAME/TOKEN Retrieve rtn
652	(28C)	BITSTRING	128	WSAVOL(4)	VOLUME MASK
780	(30C)	SIGNED	4	WSAMDSTR	Lowest remote route code for quick index to queue
784	(310)	SIGNED	4	WSAMDSTU	Lowest special local route code
Work area for ASAXWC macros					
788	(314)	SIGNED	4	WSADATAL	Length of input string MACDATE -12/21/18-<0>
0	(0)	X'318'	0	M00M1596	"WSALIST" ++ ASAXWC NAME
792	(318)	SIGNED	4	WSALIST(0)	++ ASAXWC PARM LIST
792	(318)	CHARACTER	4	WSALIST_XPARAMAREA1	++ FIELD_LABEL
796	(31C)	CHARACTER	24	WSALIST_XPARAMAREA2	++ FIELD_LABEL
796	(31C)	X'334'	0	WSALIST_PL_END	"*" ++ END OF BASE PLIST
792	(318)	ADDRESS	4	WSALIST_XPATTERNSTR_ADDR	++ ADDR
796	(31C)	SIGNED	4	WSALIST_XPATTERNSTRLEN	++
800	(320)	ADDRESS	4	WSALIST_XSTRING_ADDR	++ ADDR
804	(324)	SIGNED	4	WSALIST_XSTRINGLEN	++
808	(328)	ADDRESS	4	WSALIST_XZEROORMORE_ADDR	++ ADDR
812	(32C)	ADDRESS	4	WSALIST_XONECHAR_ADDR	++ ADDR
816	(330)	ADDRESS	4	WSALIST_XDELIMITER_ADDR	++ ADDR
792	(318)	ADDRESS	4	WSALIST_XPPPATTERNINFO_ADDR	++ ADDR
796	(31C)	ADDRESS	4	WSALIST_XPPPATTERNSTR_ADDR	++ ADDR
800	(320)	SIGNED	4	WSALIST_XPPPATTERNSTRLEN	++
804	(324)	ADDRESS	4	WSALIST_XPPZEROORMORE_ADDR	++ ADDR
808	(328)	ADDRESS	4	WSALIST_XPPONECHAR_ADDR	++ ADDR
812	(32C)	ADDRESS	4	WSALIST_XPPDELIMITER_ADDR	++ ADDR
796	(31C)	ADDRESS	4	WSALIST_XPPSTRING_ADDR	++ ADDR
800	(320)	SIGNED	4	WSALIST_XPPSTRINGLEN	++
820	(334)	X'1C'	0	WSALISTL	"*-WSALIST" ++ LENGTH OF PLIST
ASAXWC-0					
820	(334)	BITSTRING	256	WSAAREA	Work area passed to ASAXWC
Parameter list for MVS Name/Token retrieve service (IEANTRT).					
820	(334)	SIGNED	4	WSATKPRM(0)	IEANTRT parameter list
820	(334)	ADDRESS	4	WSATKLVA	Level address
824	(338)	ADDRESS	4	WSATKNMA	Name address
828	(33C)	ADDRESS	4	WSATKTKA	Token address
832	(340)	ADDRESS	4	WSATKRCA	Return code address



Table 297. Structure WSA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Token information					
836	(344)	SIGNED	4	WSATKLVL	Task level for token
840	(348)	BITSTRING	16	WSATKTOK	Token of NAME/TOKEN pair
856	(358)	SIGNED	4	WSATKRET	Service return code
860	(35C)	BITSTRING	16	WSATKNAM	Name of NAME/Token pair
\$JCORBLD Job Correlator build service work area					
1076	(434)	CHARACTER	68	WSAJCOR	Job correlator
1144	(478)	DBL WORD	8	(0)	
1144	(478)	X'478'	0	WSAWSLN	"*-WSA" Length of area cleared by WSETUP
Nothing beyond this point is cleared by WSETUP ASAXWC translate table					
1144	(478)	BITSTRING	256	WSATRTAB	Translate table for ASAXWC
Work area for EBCDIC work selection list creation					
1400	(578)	BITSTRING	1	WSAWSLST	Work selection list (EBCDIC)
Work area for \$#GET "count" type call. Counts are accumulated for all JOEs which match the selection criteria.					
1628	(65C)	SIGNED	4	WSACTJOE	Number of JOEs matching
1632	(660)	SIGNED	4	WSACLINE	Number of lines
1636	(664)	SIGNED	4	WSACPAGE	Number of pages
1636	(664)	X'65C'	0	WSACOUNT	"WSACTJOE,*-WSACTJOE,C'X'"
Work area for \$#POST					
1640	(668)	BITSTRING	576	WSATWSP	Temporary WSP
2216	(8A8)	BITSTRING	50	WSAPRTBL	Room for 5 PRMODEs
2266	(8DA)	BITSTRING	34	WSASPLWA	Working spools used mask
2300	(8FC)	ADDRESS	4	WSAPSGTW	Address of GTW
2304	(900)	SIGNED	4	(0)	Ensure fullword alignment
2304	(900)	X'900'	0	WSALEN	"*-WSA" LENGTH OF WSA

Table 298. Cross Reference for \$WSA

Name	Offset	Hex Tag
M00M1596	0	318
WSA	0	
WSAAREA	334	
WSAASLAS	169	
WSABCLVL	1C1	
WSABSTV	1C8	
WSABSTWK	1BC	



Table 298. Cross Reference for \$WSA (continued)

Name	Offset	Hex Tag
WSACBA	220	
WSACJOE	244	
WSACLINE	660	
WSACLRST	98	
WSACLVAL	1C0	
WSACOUNT	664	65C
WSACPAGE	664	
WSACTJOE	65C	
WSACURV	1E1	
WSADATAL	314	
WSADCT	228	
WSADELIM	168	0
WSAFLAG1	1C2	
WSAFLAG2	1C3	
WSAFLAG3	1C4	
WSAFLG	1BA	0
WSAHCT	220	
WSAID	0	E6E2C140
WSAJCOR	434	
WSAJCT	23C	
WSAJOA	248	
WSAJQE	234	
WSALEN	900	900
WSALIST	318	
WSALIST_PL_END	31C	334
WSALIST_XDELIMITER_ADDR	330	
WSALIST_XONECHAR_ADDR	32C	
WSALIST_XPARAMAREA1	318	
WSALIST_XPARAMAREA2	31C	
WSALIST_XPATTERNSTR_ADDR	318	
WSALIST_XPATTERNSTRLEN	31C	
WSALIST_XPPDELIMITER_ADDR	32C	
WSALIST_XPPONECHAR_ADDR	328	
WSALIST_XPPPATTERNINFO_ADDR	318	
WSALIST_XPPPATTERNSTR_ADDR	31C	
WSALIST_XPPPATTERNSTRLEN	320	
WSALIST_XPPSTRING_ADDR	31C	
WSALIST_XPPSTRINGLEN	320	
WSALIST_XPPZEROORMORE_ADDR	324	



Table 298. Cross Reference for \$WSA (continued)

Name	Offset	Hex Tag
WSALIST_XSTRING_ADDR	320	
WSALIST_XSTRINGLEN	324	
WSALIST_XZEROORMORE_ADDR	328	
WSALISTL	334	1C
WSALLIM	218	
WSALST	280	
WSALSTCR	284	
WSAMDSTR	30C	
WSAMDSTU	310	
WSANDHA	268	
WSANDHG	260	
WSANDHS	26C	
WSANDHT	274	
WSANDHU	270	
WSANDH2	264	
WSANJHG	24C	
WSANJHO	254	
WSANJHOX	278	
WSANJHT	25C	
WSANJHU	258	
WSANJH2	250	
WSAN0OPT	1C4	8
WSANTRT	288	
WSAPCE	238	
WSAPLIM	21C	
WSAPRTBL	8A8	
WSAPSGTW	8FC	
WSARSV1	5	
WSASAVE	50	0
WSASPLWA	8DA	
WSASRVSV	8	0
WSASTCK	27C	
WSASVLST	16A	F0F04040
WSATABS	214	
WSATKLVA	334	
WSATKLVL	344	
WSATKNAM	35C	
WSATKNMA	338	
WSATKPRM	334	



Table 298. Cross Reference for \$WSA (continued)

Name	Offset	Hex Tag
WSATKRCA	340	
WSATKRET	358	
WSATKTKA	33C	
WSATKTOK	348	
WSATRTAB	478	
WSATWSP	668	
WSAUCT	224	
WSAUSER	214	80
WSAVERS	4	
WSAVOL	28C	
WSAVRSN	4	3
WSAWJOE	240	
WSAWKL1	98	
WSAWKL2	100	
WSAWRMSK	1FA	
WSAWSA	230	
WSAWSLN	478	478
WSAWSLST	578	
WSAWSP	22C	
WSA1BEST	1C2	20
WSA1CHLD	1C2	8
WSA1CLOC	1C2	4
WSA1CNET	1C2	10
WSA1CRMT	1C2	2
WSA1CURQ	1C2	1F
WSA1CUSR	1C2	1
WSA1HOLD	1C2	40
WSA1OPT	1C2	80
WSA2BSRC	1C3	1
WSA2LOC	1C3	80
WSA2NQTM	1C3	4
WSA2QQTM	1C3	2
WSA2RMT	1C3	20
WSA2RQC�	1C3	8
WSA2RQTM	1C3	10
WSA2USE	1C3	40
WSA3GJOA	1C4	80
WSA3GJQA	1C4	40
WSA3GOPT	1C4	20



Table 298. Cross Reference for \$WSA (continued)

Name	Offset	Hex Tag
WSA3JPPS	1C4	10

## \$WSC information

### \$WSC programming interface information

\$WSC is a programming interface.

### \$WSC heading information

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

### \$WSC mapping

Table 299. Structure WSC

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	WSC	HASP WLM Service Class Queue
0	(0)	CHARACTER	8	WSCNAME	Service Class name
8	(8)	BITSTRING	4	WSCSTOK	Service Class token
12	(C)	ADDRESS	4	WSCQHEAD	Index of first JQE on the service class queue
16	(10)	BITSTRING	4	WSCREG	Affinity mask for WLM registration/dereg.
20	(14)	BITSTRING	1	WSCFLAG1	Flags
		1... ..		WSC1DREG	"B'10000000" WSCREG represents systems which have deregistered
		.1.. ..		WSC1PERM	"B'01000000" Permanent WSC
		..1. ....		WSC1IACT	"B'00100000" At least one member needs to recompute its WSCIACT
		...1 ....		WSC1INIT	"B'00010000" WSC initialized



Table 299. Structure WSC (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
21	(15)	BITSTRING	1	WSCIMPL	Service class importance: 1 to 5, 1 is highest or 255 - discretionary
22	(16)	SIGNED	2	WSCMAFF	Multi-Aff jobs to be selected this cycle
24	(18)	SIGNED	4	WSCDOD	High order word of TOD when this queue became empty
28	(1C)	SIGNED	4	WCSLSTAD	Index of most recently added JQE/JQX
32	(20)	BITSTRING	1	WSCSELECT	Members that can select work based on goals
32	(20)	X'24'	0	WSCLEN1	"*-WSC" Length of first segment
36	(24)	BITSTRING	1	WSCQAFF	Members for which the class has affinity
<p>The rules for counting initiators and executings batch jobs as a consequence of a \$TJnnn command are as follows:</p> <ul style="list-style-type: none"> <li>o If a job was selected by a WINIT (WLM Initiator), it is forever going to be included when counting active jobs for a service class.</li> <li>o If a job was selected by a JINIT (JES Initiator), it is forever not included when counting active jobs for a service class.</li> <li>o If a job is selected for demand select (\$SJ or a concurrent set), then the job and initiator will be counted towards the selected job's service class, even if the job is not on the WSC queue for the service class (job class is JES managed). When a demand select job ends, both the job and initiator count are decremented and the initiator SJB is marked as not counted.</li> <li>o If an executing job's service class is changed from one class to another via a \$TJnnn,SRVCLASS=something (something can be all blanks) or a RESET MVS command and the job was selected by a WINIT, then the job will be removed from the original service class count and added to the new service class count (and the initiator count will be changed similarly). The job count can take as long as 30 seconds to be updated. The initiator count is instantaneous.</li> <li>o If a characteristic of an executing job is changed (something that influences the service class assigned to the job), then nothing will be done to alter any counts. The service class is not changed until and unless the job re-executes.</li> <li>o If a job's job class is changed to a different class and that class has the opposite</li> </ul>					
<p>mode of the original class (original was MODE=JES and new has MODE=WLM or vice versa), there will be no changing of active job count (If the job started as a WINIT job, it stays a WINIT job; if it started as a JINIT job, it stays a JINIT job).</p> <ul style="list-style-type: none"> <li>o Commands such as \$P or \$PXEQ have no effect on initiator or job counts.</li> </ul>					
40	(28)	SIGNED	4	WSCIACT(0)	Initiators active
40	(28)	X'80'	0	WSCLEN2	"*-WSCIACT" Length of init active
168	(A8)	SIGNED	4	WSCJACT(0)	Batch jobs active
168	(A8)	X'80'	0	WSCLEN3	"*-WSCJACT" Length of jobs active
296	(128)	SIGNED	4	WSCGACT(0)	Batch job activity goal
296	(128)	X'80'	0	WSCLEN4	"*-WSCGACT" Length of Goal
424	(1A8)	SIGNED	4	WSCSTOLN(0)	multi-affinity jobs that can be selected on other members
424	(1A8)	X'80'	0	WSCLEN5	"*-WSCSTOLN" Length of stolen array
552	(228)	DBL WORD	8	(0)	
552	(228)	X'228'	0	WSCLEN	"*-WSC"



Table 300. Cross Reference for \$WSC

Name	Offset	Hex Tag
WSC	0	
WSCDTOD	18	
WSCFLAG1	14	
WSCGACT	128	
WSCIACT	28	
WSCIMPL	15	
WSCJACT	A8	
WSCLEN	228	228
WSCLEN1	20	24
WSCLEN2	28	80
WSCLEN3	A8	80
WSCLEN4	128	80
WSCLEN5	1A8	80
WSCLSTAD	1C	
WSCMAFF	16	
WSCNAME	0	
WSCQAFF	24	
WSCQHEAD	C	
WSCREG	10	
WSCSELECT	20	
WSCSTOK	8	
WSCSTOLN	1A8	
WSC1DREG	14	80
WSC1IACT	14	20
WSC1INIT	14	10
WSC1PERM	14	40

## \$WSP information

### \$WSP programming interface information

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

- WSPGTW
- WSPRTBL

### \$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  
WSAWSP field of the WSA data area  
CCTSAWST/CCTSAWXO/CCTSAWXN fields of HCCT data area  
WSPNACTV/WSPPACTV fields of WSP data area

**Serialization:** JES2 reentrancy techniques.

**Function:** The WSP is used as a parameter list for \$#GET processing. The WSP is built either as part of a DCT or as a stand-alone data area created for SAPI processing.  
The WSP contains selection criteria used to select JOEs or JQEs.  
There are two types of WSPs for JOE selection:  
- WSPs with selection by JOE token  
- WSPs with selection expression based on the JOE fields  
WSPs for JQE selection use selection expressions based on JQE fields.

## \$WSP mapping

Table 301. Structure WSC

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	WSC	HASP WLM Service Class Queue
0	(0)	CHARACTER	8	WSCNAME	Service Class name
8	(8)	BITSTRING	4	WSCSTOK	Service Class token
12	(C)	ADDRESS	4	WSCQHEAD	Index of first JQE on the service class queue
16	(10)	BITSTRING	4	WSCREG	Affinity mask for WLM registration/dereg.
20	(14)	BITSTRING	1	WSCFLAG1	Flags
	1... ....			WSC1DREG	"B'10000000" WSCREG represents systems which have deregistered
	.1.. ....			WSC1PERM	"B'01000000" Permanent WSC
	..1. ....			WSC1IACT	"B'00100000" At least one member needs to recompute its WSCIACT
	...1 ....			WSC1INIT	"B'00010000" WSC initialized
21	(15)	BITSTRING	1	WSCIMPL	Service class importance: 1 to 5, 1 is highest or 255 - discretionary



Table 301. Structure WSC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
22	(16)	SIGNED	2	WSCMAFF	Multi-Aff jobs to be selected this cycle
24	(18)	SIGNED	4	WSCDOD	High order word of TOD when this queue became empty
28	(1C)	SIGNED	4	WCLSTAD	Index of most recently added JQE/JQX
32	(20)	BITSTRING	1	WSCSELECT	Members that can select work based on goals
32	(20)	X'24'	0	WSCLEN1	"*-WSC" Length of first segment
36	(24)	BITSTRING	1	WSCQAFF	Members for which the class has affinity
<p>The rules for counting initiators and executings batch jobs as a consequence of a \$TJnnn command are as follows:</p> <ul style="list-style-type: none"> <li>o If a job was selected by a WINIT (WLM Initiator), it is forever going to be included when counting active jobs for a service class.</li> <li>o If a job was selected by a JINIT (JES Initiator), it is forever not included when counting active jobs for a service class.</li> <li>o If a job is selected for demand select (\$SJ or a concurrent set), then the job and initiator will be counted towards the selected job's service class, even if the job is not on the WSC queue for the service class (job class is JES managed). When a demand select job ends, both the job and initiator count are decremented and the initiator SJB is marked as not counted.</li> <li>o If an executing job's service class is changed from one class to another via a \$TJnnn,SRVCLASS=something (something can be all blanks) or a RESET MVS command and the job was selected by a WINIT, then the job will be removed from the original service class count and added to the new service class count (and the initiator count will be changed similarly). The job count can take as long as 30 seconds to be updated. The initiator count is instantaneous.</li> <li>o If a characteristic of an executing job is changed (something that influences the service class assigned to the job), then nothing will be, done to alter any counts. The service class is not changed until and unless the job re-executes.</li> <li>o If a job's job class is changed to a different class and that class has the opposite</li> </ul>					
<p>mode of the original class (original was MODE=JES and new has MODE=WLM or vice versa), there will be no changing of active job count (If the job started as a WINIT job, it stays a WINIT job; if it started as a JINIT job, it stays a JINIT job).</p> <ul style="list-style-type: none"> <li>o Commands such as \$P or \$PXEQ have no effect on initiator or job counts.</li> </ul>					
40	(28)	SIGNED	4	WSCIACT(0)	Initiators active
40	(28)	X'80'	0	WSCLEN2	"*-WSCIACT" Length of init active
168	(A8)	SIGNED	4	WSCJACT(0)	Batch jobs active
168	(A8)	X'80'	0	WSCLEN3	"*-WSCJACT" Length of jobs active
296	(128)	SIGNED	4	WSCGACT(0)	Batch job activity goal
296	(128)	X'80'	0	WSCLEN4	"*-WSCGACT" Length of Goal
424	(1A8)	SIGNED	4	WSCSTOLN(0)	multi-affinity jobs that can be selected on other members
424	(1A8)	X'80'	0	WSCLEN5	"*-WSCSTOLN" Length of stolen array
552	(228)	DBL WORD	8	(0)	
552	(228)	X'228'	0	WSCLEN	"*-WSC"



Table 302. Cross Reference for \$WSP

Name	Offset	Hex Tag
WSC	0	
WSCDTOD	18	
WSCFLAG1	14	
WSCGACT	128	
WSCIACT	28	
WSCIMPL	15	
WSCJACT	A8	
WSCLEN	228	228
WSCLEN1	20	24
WSCLEN2	28	80
WSCLEN3	A8	80
WSCLEN4	128	80
WSCLEN5	1A8	80
WSCLSTAD	1C	
WSCMAFF	16	
WSCNAME	0	
WSCQAFF	24	
WSCQHEAD	C	
WSCREG	10	
WSCSELECT	20	
WSCSTOK	8	
WSCSTOLN	1A8	
WSC1DREG	14	80
WSC1IACT	14	20
WSC1INIT	14	10
WSC1PERM	14	40

## \$XBCWORK information

### \$XBCWORK heading information

<b>Common name:</b>	\$XBCAST parameter list/work area
<b>Macro ID:</b>	\$XBCWORK
<b>DSECT name:</b>	XBCWORK
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'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 mapping

Table 303. Structure XBCWORK

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	XBCWORK	XBCAST parm list/work area
0	(0)	CHARACTER	4	XBCEYE	Eyecatcher
4	(4)	ADDRESS	1	XBCVERS	Version
4	(4)	X'1'	0	XBCVERSN	"1" Current version
5	(5)	BITSTRING	1	XBCOPT	Broadcast options:
		1... ..		XBSNDLOC	"B'10000000'" Send to local member
		.1.. ..		XBXSYPGRP	"B'01000000'" Use cross system data retrieval XCF group
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	4	XBCBUFA	Address of buffer to send
12	(C)	ADDRESS	4	XBCBUFL	Length of buffer
16	(10)	ADDRESS	4	XBCMASKA	Address of affinity field
20	(14)	ADDRESS	4	XBCMBNA	Address of mail box name
24	(18)	CHARACTER	16	XBCMEMBN	Member name work area
40	(28)	ADDRESS	4	XBCXGTKN	XCF group token work area
44	(2C)	BITSTRING	4		Reserved
48	(30)	DBL WORD	8	XBCXLST(0)	Doubleword aligned
----- IXZXIXSM MF=(L,XBCXIXSM) Send message MACDATE -10/16/01-<2>					
0	(0)	X'30'	0	M00M1600	"XBCXIXSM" ++ IXZXIXSM NAME
48	(30)	DBL WORD	8	XBCXIXSM(0)	++ IXZXIXSM PARM LIST
48	(30)	BITSTRING	1	XBCXIXSM_XVERSION	++ INPUT XVERSION
49	(31)	CHARACTER	6	XBCXIXSM_XEYECATCH	++ CONSTANT XEYECATCH
55	(37)	BITSTRING	1	XBCXIXSM_XMSGATTR	++ INPUT
		1... ..		XBCXIXSM_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1.. ..		XBCXIXSM_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
56	(38)	CHARACTER	16	XBCXIXSM_XMBOXNAME	++ XMBOXNAME
72	(48)	CHARACTER	16	XBCXIXSM_XMEMBER	++ XMEMBER
88	(58)	ADDRESS	4	XBCXIXSM_XDATA	++ XDATA



Table 303. Structure XBCWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
92	(5C)	SIGNED	4	XBCXIXSM_XDATALEN	++ XDATALEN
96	(60)	BITSTRING	8	XBCXIXSM_XREQTOKEN	++ XREQTOKEN
104	(68)	CHARACTER	16	XBCXIXSM_XREQMBOX	++ XREQMBOX
120	(78)	SIGNED	4	XBCXIXSM_XDATAALET	++ XDATAALET
124	(7C)	SIGNED	4	XBCXIXSM_XRESPDALT	++ XRESPDALT
128	(80)	SIGNED	4	XBCXIXSM_XECB	++ XECB
132	(84)	SIGNED	4	XBCXIXSM_XEXIT	++ XEXIT
136	(88)	BITSTRING	8	XBCXIXSM_XCONNECT	++ XCONNECT
144	(90)	SIGNED	4	XBCXIXSM_XGROUPTOKEN	++ XGROUPTOKEN
148	(94)	SIGNED	4	XBCXIXSM_XUSERRC	++ XUSERRC
152	(98)	SIGNED	4	XBCXIXSM_XRESPDATA	++ XRESPDATA
156	(9C)	SIGNED	4	XBCXIXSM_XRESPDLEN	++ XRESPDLEN
160	(A0)	CHARACTER	4	XBCXIXSM_XRSV00001	++ RESERVED XRSV00001
164	(A4)	BITSTRING	8	XBCXIXSM_XMSGTOKEN	++ XMSGTOKEN
172	(AC)	SIGNED	4	XBCXIXSM_XRIPSIZE	++ XRIPSIZE
176	(B0)	BITSTRING	1	XBCXIXSM_XREQTYPE	++ INPUT
	1... ....			XBCXIXSM_XREQTYPE_ASYNC	"B'10000000'" ++ XREQTYPE.ASYNC KEYWORD
	.1.. ....			XBCXIXSM_XREQTYPE_SYNC	"B'01000000'" ++ XREQTYPE.SYNC KEYWORD
	..1. ....			XBCXIXSM_XREQTYPE_ASYNCACK	"B'00100000'" ++ XREQTYPE.ASYNCACK KEYWORD
	...1 ....			XBCXIXSM_XREQTYPE_COMM	"B'00010000'" ++ XREQTYPE.COMM KEYWORD
177	(B1)	BITSTRING	1	XBCXIXSM_XSEGTYPE	++ INPUT
	1... ....			XBCXIXSM_XSEGTYPE_SINGLE	"B'10000000'" ++ XSEGTYPE.SINGLE KEYWORD
	.1.. ....			XBCXIXSM_XSEGTYPE_FIRST	"B'01000000'" ++ XSEGTYPE.FIRST KEYWORD
	..1. ....			XBCXIXSM_XSEGTYPE_MIDDLE	"B'00100000'" ++ XSEGTYPE.MIDDLE KEYWORD
	...1 ....			XBCXIXSM_XSEGTYPE_LAST	"B'00010000'" ++ XSEGTYPE.LAST KEYWORD
	.... 1...			XBCXIXSM_XSEGTYPE_ABORT	"B'00001000'" ++ XSEGTYPE.ABORT KEYWORD
178	(B2)	BITSTRING	1	XBCXIXSM_XKEYS	++ FIELD_LABEL
	1... ....			XBCXIXSM_KEYUSED_REQTYPE	"B'10000000'" ++ KEYUSED.REQTYPE KEYWORD
	.1.. ....			XBCXIXSM_KEYUSED_REQTOKEN	"B'01000000'" ++ KEYUSED.REQTOKEN KEYWORD
	..1. ....			XBCXIXSM_KEYUSED_REQMBOX	"B'00100000'" ++ KEYUSED.REQMBOX KEYWORD
	...1 ....			XBCXIXSM_KEYUSED_EXIT	"B'00010000'" ++ KEYUSED.EXIT KEYWORD
	.... 1...			XBCXIXSM_KEYUSED_SEGTYPE	"B'00001000'" ++ KEYUSED.SEGTYPE KEYWORD
	.... .1..			XBCXIXSM_KEYUSED_CONNECT	"B'00000100'" ++ KEYUSED.CONNECT KEYWORD
	.... ..1.			XBCXIXSM_KEYUSED_MSGTOKEN	"B'00000010'" ++ KEYUSED.MSGTOKEN KEYWORD
	.... ...1			XBCXIXSM_KEYUSED_MSGATTR	"B'00000001'" ++ KEYUSED.MSGATTR KEYWORD
179	(B3)	BITSTRING	1	XBCXIXSM_XKEYS1	++ FIELD_LABEL



Table 303. Structure XBCWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1... ..		XBCXIXSM_KEYUSED_ECB	"B'10000000'" ++ KEYUSED.ECB KEYWORD
		.1... ..		XBCXIXSM_KEYUSED_DATAALET	"B'01000000'" ++ KEYUSED.DATAALET KEYWORD
		..1. ....		XBCXIXSM_KEYUSED_RELEASE_CADS	"B'00100000'" ++ KEYUSED.RELEASE_CADS KEYWORD
		...1 ....		XBCXIXSM_KEYUSED_RIPSIZE	"B'00010000'" ++ KEYUSED.RIPSIZE KEYWORD
179	(B3)	X'84'	0	XBCXIXSML	"*-XBCXIXSM" ++ LENGTH OF PLIST
IXZXIXSM-2					
184	(B8)	DBL WORD	8	(0)	Doubleword aligned
184	(B8)	X'30'	0	XBCXLST	"XBCXLST,*-XBCXLST" IXZ list form
184	(B8)	X'B8'	0	XBCWLEN	"*-XBCWORK" Length of work area

Table 304. Cross Reference for \$XBCWORK

Name	Offset	Hex	Tag
M00M1600	0		30
XBCBUFA	8		
XBCBUFL	C		
XBCEYE	0		
XBCMASKA	10		
XBCMBNA	14		
XBCMEMBN	18		
XBCOPT	5		
XBCVERS	4		
XBCVERSN	4		1
XBCWLEN	B8		B8
XBCWORK	0		
XBCXGTKN	28		
XBCXIXSM	30		
XBCXIXSM_KEYUSED_CONNECT	B2		4
XBCXIXSM_KEYUSED_DATAALET	B3		40
XBCXIXSM_KEYUSED_ECB	B3		80
XBCXIXSM_KEYUSED_EXIT	B2		10
XBCXIXSM_KEYUSED_MSGATTR	B2		1
XBCXIXSM_KEYUSED_MSGTOKEN	B2		2
XBCXIXSM_KEYUSED_RELEASE_CADS	B3		20
XBCXIXSM_KEYUSED_REQMBOX	B2		20
XBCXIXSM_KEYUSED_REQTOKEN	B2		40
XBCXIXSM_KEYUSED_REQTYPE	B2		80
XBCXIXSM_KEYUSED_RIPSIZE	B3		10



Table 304. Cross Reference for \$XBCWORK (continued)

Name	Offset	Hex Tag
XBCXIXSM_KEYUSED_SEGTYPE	B2	8
XBCXIXSM_XCONNECT	88	
XBCXIXSM_XDATA	58	
XBCXIXSM_XDATAALET	78	
XBCXIXSM_XDATALEN	5C	
XBCXIXSM_XECB	80	
XBCXIXSM_XEXIT	84	
XBCXIXSM_XEYECATCH	31	
XBCXIXSM_XGROUPTOKEN	90	
XBCXIXSM_XKEYS	B2	
XBCXIXSM_XKEYS1	B3	
XBCXIXSM_XMBOXNAME	38	
XBCXIXSM_XMEMBER	48	
XBCXIXSM_XMSGATTR	37	
XBCXIXSM_XMSGATTR_EXPRESS	37	40
XBCXIXSM_XMSGATTR_J3CONNECT	37	80
XBCXIXSM_XMSGTOKEN	A4	
XBCXIXSM_XREQMBOX	68	
XBCXIXSM_XREQTOKEN	60	
XBCXIXSM_XREQTYPE	B0	
XBCXIXSM_XREQTYPE_ASYNC	B0	80
XBCXIXSM_XREQTYPE_ASYNCACK	B0	20
XBCXIXSM_XREQTYPE_COMM	B0	10
XBCXIXSM_XREQTYPE_SYNC	B0	40
XBCXIXSM_XRESPDALT	7C	
XBCXIXSM_XRESPDATA	98	
XBCXIXSM_XRESPDLEN	9C	
XBCXIXSM_XRIPSIZE	AC	
XBCXIXSM_XRSV00001	A0	
XBCXIXSM_XSEGTYPE	B1	
XBCXIXSM_XSEGTYPE_ABORT	B1	8
XBCXIXSM_XSEGTYPE_FIRST	B1	40
XBCXIXSM_XSEGTYPE_LAST	B1	10
XBCXIXSM_XSEGTYPE_MIDDLE	B1	20
XBCXIXSM_XSEGTYPE_SINGLE	B1	80
XBCXIXSM_XUSERRC	94	
XBCXIXSM_XVERSION	30	
XBCXIXSML	B3	84
XBCXLIST	B8	30



Table 304. Cross Reference for \$XBCWORK (continued)

Name	Offset	Hex Tag
XBCXLST	30	
XBSNDLOC	5	80
XBXSYGRP	5	40

## \$XCMWORK information

### \$XCMWORK heading information

<b>Common name:</b>	JES2 XCFCMND PCE Work Area
<b>Macro ID:</b>	\$XCMWORK
<b>DSECT name:</b>	PCE (\$XCMWORK is part of the PCE DSECT)
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'PCE ' Offset: PCEEYE-PCE Length: 4
<b>Storage attributes:</b>	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
<b>Size:</b>	See symbol XCMPCWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
<b>Created by:</b>	See \$PCE
<b>Pointed to by:</b>	The \$XCMPCE field of the \$HCT data area See \$PCE for other pointer fields that apply to all PCE types.
<b>Serialization:</b>	Normal PCE dispatch serialization
<b>Function:</b>	The fields in this work area are used by a JES2 XCFCMND Processor and by its support routines and exits. \$XCMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$XCMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEXCMID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

### \$XCMWORK mapping

Table 305. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	CHARACTER	16	XCMMBNAM	XCF CMD Mail box name
352	(160)	SIGNED	4	XCMXCECB(0)	XECB for XCF posts
376	(178)	ADDRESS	4	XCMXBUFA	Address of current XREQ



Table 305. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
380	(17C)	ADDRESS	4	XCMXBUFP	Current data area pointer
384	(180)	SIGNED	4	XCMXBUFL	Current data area length
388	(184)	BITSTRING	8	XCMXTOKN	Current XCF message token
396	(18C)	ADDRESS	4	XCMACKPT	Acknowledgement XREQ ptr
400	(190)	SIGNED	4	XCMERRCT	ABEND count
List form macros for JESXCF services					
408	(198)	DBL WORD	8	(0)	
408	(198)	BITSTRING	160	XCMIXLST	JESXCF list form macros
568	(238)	DBL WORD	8	XCMIXEND(0)	End of list form area
----- IXZXIXAC MF=(L,XCMIXAC) Acknowledge message MACDATE -11/12/03-<1>					
0	(0)	X'198'	0	M00M1604	"XCMIXAC" ++ IXZXIXAC NAME
408	(198)	DBL WORD	8	XCMIXAC(0)	++ IXZXIXAC PARM LIST
408	(198)	BITSTRING	1	XCMIXAC_XVERSION	++ INPUT XVERSION
409	(199)	CHARACTER	6	XCMIXAC_XEYECATCH	++ CONSTANT XEYECATCH
415	(19F)	BITSTRING	1	XCMIXAC_XSTB	++ INPUT
		1... ....		XCMIXAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1.. ....		XCMIXAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
416	(1A0)	BITSTRING	8	XCMIXAC_XMSGTOKEN	++ XMSGTOKEN
424	(1A8)	ADDRESS	4	XCMIXAC_XDATA	++ XDATA
428	(1AC)	SIGNED	4	XCMIXAC_XDATALEN	++ XDATALEN
432	(1B0)	SIGNED	4	XCMIXAC_XUSERRC	++ XUSERRC
436	(1B4)	SIGNED	4	XCMIXAC_XGROUPTOKEN	++ XGROUPTOKEN
440	(1B8)	SIGNED	4	XCMIXAC_XSYSRC	++ XSYSRC
444	(1BC)	SIGNED	4	XCMIXAC_XSYSRSN	++ XSYSRSN
448	(1C0)	BITSTRING	1	XCMIXAC_XKEYS	++ FIELD_LABEL
		1... ....		XCMIXAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1.. ....		XCMIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1. ....		XCMIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1 ....		XCMIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		XCMIXAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
449	(1C1)	BITSTRING	1	XCMIXAC_XMSGATTR	++ INPUT
		1... ....		XCMIXAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1.. ....		XCMIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
449	(1C1)	X'2A'	0	XCMIXACL	"*-XCMIXAC" ++ LENGTH OF PLIST
IXZXIXAC-1					
450	(1C2)	ADDRESS	2	(0)	Ensure area fits



Table 305. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
----- IXZXIXMB MF=(L,XCMXIXMB) Create mailbox MACDATE -93/05/10-<1>					
408	(198)	SIGNED	2	M00M1606(0)	IXZXIXMB-1
408	(198)	DBL WORD	8	XCMXIXMB(0)	++ IXZXIXMB PARM LIST
408	(198)	BITSTRING	1	XCMXIXMB_XVERSION	++ INPUT XVERSION
409	(199)	CHARACTER	6	XCMXIXMB_XEYECATCH	++ CONSTANT XEYECATCH
415	(19F)	CHARACTER	1	XCMXIXMB_XRSV0001	++ RESERVED XRSV0001
416	(1A0)	CHARACTER	16	XCMXIXMB_XMBOXNAME	++ XMBOXNAME
432	(1B0)	ADDRESS	4	XCMXIXMB_XPOSTXIT	++ XPOSTXIT
436	(1B4)	ADDRESS	4	XCMXIXMB_XPOSTDATA	++ XPOSTDATA
440	(1B8)	SIGNED	4	XCMXIXMB_XPOSTALET	++ XPOSTALET
444	(1BC)	SIGNED	4	XCMXIXMB_XGROUPTOKEN	++ XGROUPTOKEN
448	(1C0)	BITSTRING	1	XCMXIXMB_XSYSEVENTS	++ FIELD_LABEL
		1... ....		XCMXIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1.. ....		XCMXIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
448	(1C0)	X'29'	0	XCMXIXMBL	"*-XCMXIXMB" ++ LENGTH OF PLIST
IXZXIXMB-1					
450	(1C2)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXMD MF=(L,XCMXIXMD) Delete mailbox MACDATE -93/05/10-<1>					
408	(198)	SIGNED	2	M00M1607(0)	IXZXIXMD-1
408	(198)	DBL WORD	8	XCMXIXMD(0)	++ IXZXIXMD PARM LIST
408	(198)	BITSTRING	1	XCMXIXMD_XVERSION	++ INPUT XVERSION
409	(199)	CHARACTER	6	XCMXIXMD_XEYECATCH	++ CONSTANT XEYECATCH
415	(19F)	BITSTRING	1	XCMXIXMD_XSTB	++ INPUT
		1... ....		XCMXIXMD_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1.. ....		XCMXIXMD_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
416	(1A0)	CHARACTER	16	XCMXIXMD_XMBOXNAME	++ XMBOXNAME
432	(1B0)	SIGNED	4	XCMXIXMD_XGROUPTOKEN	++ XGROUPTOKEN
432	(1B0)	X'1C'	0	XCMXIXMDL	"*-XCMXIXMD" ++ LENGTH OF PLIST
IXZXIXMD-1					
436	(1B4)	ADDRESS	2	(0)	Ensure area fits
----- IXZXIXRM MF=(L,XCMXIXRM) Receive message MACDATE -93/05/10-<1>					
408	(198)	SIGNED	2	M00M1608(0)	IXZXIXRM-1
408	(198)	DBL WORD	8	XCMXIXRM(0)	++ IXZXIXRM PARM LIST
408	(198)	BITSTRING	1	XCMXIXRM_XVERSION	++ INPUT XVERSION
409	(199)	CHARACTER	6	XCMXIXRM_XEYECATCH	++ CONSTANT XEYECATCH
415	(19F)	CHARACTER	1	XCMXIXRM_XRSV0001	++ RESERVED XRSV0001
416	(1A0)	CHARACTER	16	XCMXIXRM_XMBOXNAME	++ XMBOXNAME
432	(1B0)	ADDRESS	4	XCMXIXRM_XDATA	++ XDATA



Table 305. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
436	(1B4)	SIGNED	4	XCMXIXRM_XDATALEN	++ XDATALEN
440	(1B8)	BITSTRING	8	XCMXIXRM_XMSGTOKEN	++ XMSGTOKEN
448	(1C0)	SIGNED	4	XCMXIXRM_XGROUPTOKEN	++ XGROUPTOKEN
452	(1C4)	BITSTRING	1	XCMXIXRM_XMSGFETCH	++ INPUT
		1... ....		XCMXIXRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1.. ....		XCMXIXRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1. ....		XCMXIXRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1 ....		XCMXIXRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
453	(1C5)	BITSTRING	1	XCMXIXRM_XKEYS	++ FIELD_LABEL
		1... ....		XCMXIXRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
453	(1C5)	X'2E'	0	XCMXIXRML	"*-XCMXIXRM" ++ LENGTH OF PLIST
IXZXIXRM-1					
454	(1C6)	ADDRESS	2	(0)	Ensure area fits
\$SCAN output work area					
568	(238)	CHARACTER	1024	XCMSCANW	SCAN message work area
1592	(638)	ADDRESS	4	XCMXSJBQ	Address of current SJB queue head
1600	(640)	DBL WORD	8	(0)	Force double-word alignment
1600	(640)	X'4F0'	0	XCMPCEWS	"*-PCEWORK" Length of work area

Table 306. Cross Reference for \$XCMWORK

Name	Offset	Hex Tag
M00M1604	0	198
M00M1606	198	
M00M1607	198	
M00M1608	198	
PCE	0	
XCMACKPT	18C	
XCMERRCT	190	
XCMIXEND	238	
XCMIXLST	198	
XCMMBNAM	150	E2E8E2D1
XCMPCEWS	640	4F0
XCMSCANW	238	
XCMXBUFA	178	
XCMXBUFL	180	
XCMXBUFP	17C	



Table 306. Cross Reference for \$XCMWORK (continued)

Name	Offset	Hex Tag
XCMXCECB	160	
XCMXIXAC	198	
XCMXIXAC_KEYUSED_DATA	1C0	80
XCMXIXAC_KEYUSED_DATALEN	1C0	40
XCMXIXAC_KEYUSED_SYSRC	1C0	10
XCMXIXAC_KEYUSED_SYSRSN	1C0	8
XCMXIXAC_KEYUSED_USERRC	1C0	20
XCMXIXAC_XDATA	1A8	
XCMXIXAC_XDATALEN	1AC	
XCMXIXAC_XEYECATCH	199	
XCMXIXAC_XGROUPTOKEN	1B4	
XCMXIXAC_XKEYS	1C0	
XCMXIXAC_XMSGATTR	1C1	
XCMXIXAC_XMSGATTR_EXPRESS	1C1	40
XCMXIXAC_XMSGATTR_J3CONNECT	1C1	80
XCMXIXAC_XMSGTOKEN	1A0	
XCMXIXAC_XSTB	19F	
XCMXIXAC_XSTB_NO	19F	80
XCMXIXAC_XSTB_YES	19F	40
XCMXIXAC_XSYSRC	1B8	
XCMXIXAC_XSYSRSN	1BC	
XCMXIXAC_XUSERRC	1B0	
XCMXIXAC_XVERSION	198	
XCMXIXACL	1C1	2A
XCMXIXMB	198	
XCMXIXMB_XEYECATCH	199	
XCMXIXMB_XGROUPTOKEN	1BC	
XCMXIXMB_XMBOXNAME	1A0	
XCMXIXMB_XPOSTALET	1B8	
XCMXIXMB_XPOSTDATA	1B4	
XCMXIXMB_XPOSTXIT	1B0	
XCMXIXMB_XRSV0001	19F	
XCMXIXMB_XSYSEVENT_NO	1C0	40
XCMXIXMB_XSYSEVENT_YES	1C0	80
XCMXIXMB_XSYSEVENTS	1C0	
XCMXIXMB_XVERSION	198	
XCMXIXMBL	1C0	29
XCMXIXMD	198	
XCMXIXMD_XEYECATCH	199	



Table 306. Cross Reference for \$XCMWORK (continued)

Name	Offset	Hex Tag
XCMXIXMD_XGROUPTOKEN	1B0	
XCMXIXMD_XMBOXNAME	1A0	
XCMXIXMD_XSTB	19F	
XCMXIXMD_XSTB_NO	19F	80
XCMXIXMD_XSTB_YES	19F	40
XCMXIXMD_XVERSION	198	
XCMXIXMDL	1B0	1C
XCMXIXRM	198	
XCMXIXRM_KEYUSED_MSGFETCH	1C5	80
XCMXIXRM_XDATA	1B0	
XCMXIXRM_XDATALEN	1B4	
XCMXIXRM_XEYECATCH	199	
XCMXIXRM_XGROUPTOKEN	1C0	
XCMXIXRM_XKEYS	1C5	
XCMXIXRM_XMBOXNAME	1A0	
XCMXIXRM_XMSGFETCH	1C4	
XCMXIXRM_XMSGFETCH_ACKS	1C4	10
XCMXIXRM_XMSGFETCH_ALL	1C4	80
XCMXIXRM_XMSGFETCH_MESSAGES	1C4	40
XCMXIXRM_XMSGFETCH_SYSEVENT	1C4	20
XCMXIXRM_XMSGTOKEN	1B8	
XCMXIXRM_XRSV0001	19F	
XCMXIXRM_XVERSION	198	
XCMXIXRML	1C5	2E
XCMXSJBQ	638	
XCMXTOKN	184	

## \$XECB information

### \$XECB programming interface information

\$XECB is a programming interface.

### \$XECB heading information

<b>Common name:</b>	JES2 Extended event control block
<b>Macro ID:</b>	\$XECB
<b>DSECT name:</b>	XECB
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	None



<b>Storage attributes:</b>	Subpool: Any Key: Any system key (0-7) Residency: Anywhere in the private address space
<b>Size:</b>	See XECBLEN
<b>Created by:</b>	Generally part of other data areas
<b>Pointed to by:</b>	\$EXTECBQ field of the \$HCT data area \$XECBQ field of the \$HCT data area XECBCHNS field of the \$XECB data area XECBPSTC field of the \$XECB data area
<b>Serialization:</b>	The XECBCHNS field may only be changed by the JES2 main task. The XECBPSTC field must be updated via compare and swap logic. Standard ECB serialization techniques must be used to update the XECBECB field. These include owning the local lock to update an initialized ECB (X'80000000' of the XECBECB field) and compare and swap if not.
<b>Function:</b>	XECBs are used for 2 purposes depending on the environment. In the JES2 main task, they are used to ensure a PCE is \$POSTed when an ECB is posted. This uses the first mapping of the XECB and the \$WAIT, \$XECBSRV, and MVS post service. The second use of XECBs can occur in any environment. This function allows for a processing routine to get control when the ECB is posted. In this case, the \$XECBSRV service is used to set up the XECB, identify the processing routine and the parameter to pass to the processing routine. The processing routine can get control in task or SRB mode. See \$XECBSRV for more information.

## \$XECB mapping

Table 307. Structure XECB

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	XECB	XECB DSECT
0	(0)	SIGNED	4	XECBECB	EXTENDED EVENT CONTROL BLOCK
4	(4)	SIGNED	4	XECBPCE	PCE to dispatch on MVS POST (high bit off)
8	(8)	BITSTRING	12	XECBCHNS(0)	NEXT 3 FIELDS STAY TOGETHER
8	(8)	SIGNED	4	XECBQNX	A(NEXT XECB) ON \$XECBQ
12	(C)	SIGNED	4	XECBPSTC	POSTED ECB CHAINING FIELD
16	(10)	SIGNED	4	XECBQPRV	A(PREVIOUS XECB) ON \$XECBQ
20	(14)	BITSTRING	1	XECBFLG1	General flag byte
		1... ....		XECB1CNV	"B'10000000'" ECB has been converted
		.1... ....		XECB1PRI	"B'01000000'" High priority PCE waiting
21	(15)	BITSTRING	3		Reserved
21	(15)	X'18'	0	XECBLEN	"*-XECB" EXTENDED ECB STRUCTURE LENGTH

Extended ECB for non-main task services



Table 307. Structure XECB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
4	(4)	ADDRESS	4	XECBRTN	Processing routine address (high bit on)
8	(8)	DBL WORD	8	XECBPRM0	Register 0 on entry
16	(10)	DBL WORD	8	XECBPRM1	Register 1 on entry
16	(10)	X'18'	0	XECBULEN	"*-XECB" Length of XECB
24	(18)	ADDRESS	2	(0)	Ensure both XECBs
24	(18)	ADDRESS	2	(0)	are the same length

Table 308. Cross Reference for \$XECB

Name	Offset	Hex Tag
XECB	0	
XECBCHNS	8	
XECBECB	0	
XECBFLG1	14	
XECBLEN	15	18
XECBPCE	4	
XECBPRM0	8	
XECBPRM1	10	
XECBPSTC	C	
XECBQNXT	8	
XECBQPRV	10	
XECBRTN	4	
XECBULEN	10	18
XECB1CNV	14	80
XECB1PRI	14	40

## \$XEQWORK information

### \$XEQWORK programming interface information

\$XEQWORK is a programming interface.

### \$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 PCSEXQID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

## \$XEQWORK mapping

Table 309. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
336	(150)	SIGNED	4	XEQOFFST	SJB QUEUE TABLE OFFSET
340	(154)	SIGNED	4	XEQXPARM(0)	EXIT PARM LIST
340	(154)	SIGNED	4	XEQXSJB	EXIT PARM ONE
344	(158)	SIGNED	4	XEQNXTTK	NEXT CKPT TOKEN TO \$CHECK
348	(15C)	SIGNED	4	XEQLSTTK	LAST CKPT TOKEN \$CHECKED
352	(160)	SIGNED	4	XEQTOPST	CKPT TOKEN TO BE POSTED
356	(164)	SIGNED	4	XEQXECB(0)	HASPXEQ SVJ lock ENQ ECB and jobgroup logging termination
380	(17C)	SIGNED	4	XEQENQST(0)	True start of ENQ list
MACRO-DATE = 03/16/15					
380	(17C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
380	(17C)	ADDRESS	4		PREFIX - ECB ADDRESS
380	(17C)	X'180'	0	XEQENQPL	"*" X02113
384	(180)	ADDRESS	1		PELLAST flag byte. X02113
385	(181)	ADDRESS	1		PELMILEN - RNAME length.
386	(182)	BITSTRING	1		
PELFLAG - flag byte 2.					
387	(183)	ADDRESS	1		PELRET - return code byte.
388	(184)	ADDRESS	4		QNAME ADDRESS
392	(188)	ADDRESS	4		RNAME ADDRESS



Table 309. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
392	(188)	X'17C'	0	XEQENQL	"XEQENQST,*-XEQENQST" ENQ parm length, IPCS use
396	(18C)	SIGNED	4	XEQDEQST(0)	True start of DEQ list
MACRO-DATE = 03/16/2015					
396	(18C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
396	(18C)	X'18C'	0	XEQDEQPL	"*" X02113
396	(18C)	ADDRESS	1		PELLAST flag byte. X02113
397	(18D)	ADDRESS	1		PELMILEN - RNAME length.
398	(18E)	BITSTRING	1		
PELFLAG - flag byte 2.					
399	(18F)	ADDRESS	1		PELRET - return code byte.
400	(190)	ADDRESS	4		QNAME ADDRESS
404	(194)	ADDRESS	4		RNAME ADDRESS
404	(194)	X'18C'	0	XEQDEQL	"XEQDEQST,*-XEQDEQST" DEQ parm length, IPCS use
408	(198)	CHARACTER	108	XEQMSGWA	\$WTO work area
516	(204)	ADDRESS	4	XEQPARM	NODE TABLE ADDRESS
520	(208)	ADDRESS	4		CONTROL BLOCK ADDRESS
524	(20C)	ADDRESS	4		ADDRESS OF JQE
528	(210)	ADDRESS	1		QUEUE TYPE SPECIFIED
529	(211)	ADDRESS	1		WORK SELECTION TYPE FLAG
530	(212)	ADDRESS	1		Response byte flags
531	(213)	ADDRESS	1		Reserved
531	(213)	X'204'	0	XEQLST	"XEQPARM,*-XEQPARM" QGET PARAMETER LIST STORAGE
532	(214)	BITSTRING	1	XEQSJBF1	SJBFLG1 after SJB is freed
533	(215)	BITSTRING	1	XEQSJBF2	SJBFLG2 after SJB is freed
534	(216)	BITSTRING	1	XEQFLAG1	Flags
		1... ..		XEQ1NDUP	"B'10000000'" Skip release of jobs with duplicate jobnames
		.1.. ..		XEQ1SCAN	"B'01000000'" Do scan of inits
		..1. ....		XEQ1X14	"B'00100000'" Exit 14 enabled
		...1 ....		XEQ1NOPT	"B'00010000'" Don't optimize class list/ service class list
		.... 1...		XEQ1714I	"B'00001000'" 714 message issued at least once
		.... .1..		XEQ1PHDT	"B'00000100'" Dump taken at \$PJES2 time for outstanding AS's
		.... ..1.		XEQ1PHDS	"B'00000010'" Conditions ripe to take HASP714 dump
		.... ...1		XEQ1PHNR	"B'00000001'" No more room in ASID list supplied to SDUMPX
535	(217)	BITSTRING	1	XEQSJBFB	SJBFLGB after SJB is freed
536	(218)	CHARACTER	4	XEQRSV1	Reserved for future use
540	(21C)	SIGNED	4	XEQHSBCT	Current count of HASB's
544	(220)	SIGNED	4	XEQHSBCP	Previous count of HASB's
548	(224)	SIGNED	4		Reserved



Table 309. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
552	(228)	DBL WORD	8		Reserved
560	(230)	BITSTRING	4	XEQLDVID	Last used psuedo-device id
564	(234)	SIGNED	4		Reserved
568	(238)	DBL WORD	8	XEQPHWAI	TOD when last exit from \$PHASP
576	(240)	CHARACTER	8	XEQJNAME	Jobname from job card
584	(248)	BITSTRING	1	XEQJQEF7	Copy of JQEF7
585	(249)	BITSTRING	1	XEQFLAG2	Flags
		1... ....		XEQ2WITH	"B'10000000'" Unmatched WITH= jobs
		.1.. ....		XEQ2SVJL	"B'01000000'" SVJ lock is held
586	(24A)	BITSTRING	2		Reserved for future use
588	(24C)	ADDRESS	4	XEQXWM	Queue head for sevice class optimization elements
592	(250)	SIGNED	4	XEQPTIME	TOD \$PJES2 process'g began wait-a-bit loop
596	(254)	SIGNED	4	XEQDIME	TOD \$PJES2 processing began interval to HASP714 dump
600	(258)	SIGNED	2	XEQASIDL(5)	ASID list for SDUMPX and HASP715
600	(258)	X'5'	0	XEQASDNO	"(*-XEQASIDL)/2" Number of ASIDs allowed
610	(262)	BITSTRING	2		Reserved for future use
612	(264)	SIGNED	4	XEQDOMID	DOMID for \$HASP714
616	(268)	BITSTRING	12	XEQTQE	XEQ TQE for \$STIMER
628	(274)	SIGNED	1	XEQSJBPR	Priority of job from SJB
629	(275)	BITSTRING	1	XEQSJFN1	Request type from SJB
630	(276)	BITSTRING	2		Reserved for future use
632	(278)	SIGNED	4	XEQ715DM	DOMID for \$HASP715
636	(27C)	CHARACTER	8	XEQJBNML(5)	JOBNAME list for HASP715
636	(27C)	X'5'	0	XEQJBNMN	"(*-XEQJBNML)/8" Number of JOBNAMEs allowed
676	(2A4)	BITSTRING	1	XEQWLMIS	WLM Init ASDS ent stat updt
677	(2A5)	BITSTRING	11	XEQRSV2	Reserved for future use
688	(2B0)	SIGNED	4	(0)	
688	(2B0)	BITSTRING	32	XEQSVJET	SVJLOCK ENQ token
720	(2D0)	DBL WORD	8	XEQPLIST(0)	
ISGENQ PLISTVER=1,MF=(L,XEQXENQ) MACDATE -01/23/13-<2>					
		.... ...1		XEQXENQ_XCOND_NO	"X'01' "
		.... ..1.		XEQXENQ_XCOND_YES	"X'02' "
		.... ...1		XEQXENQ_XREQUEST_OBTAIN	"X'01' "
		.... ..1.		XEQXENQ_XREQUEST_CHANGE	"X'02' "
		.... ...11		XEQXENQ_XREQUEST_RELEASE	"X'03' "
0	(0)	X'2D0'	0	M00M1616	"XEQXENQ" ++ ISGENQ NAME
720	(2D0)	DBL WORD	8	XEQXENQ(0)	++ ISGENQ PARM LIST
720	(2D0)	BITSTRING	1	XEQXENQ_XVERSION	++ INPUT XVERSION
721	(2D1)	CHARACTER	1	XEQXENQ_XRSV0000	++ RESERVED
722	(2D2)	BITSTRING	1	XEQXENQ_XSCOPE	++ XSCOPE
722	(2D2)	X'1'	0	XEQXENQ_XSCOPE_STEP	"1" ++ XSCOPE.STEP KEYWORD



Table 309. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
722	(2D2)	X'2'	0	XEQXENQ_XSCOPE_SYSTEM	"2" ++ XSCOPE.SYSTEM KEYWORD
722	(2D2)	X'3'	0	XEQXENQ_XSCOPE_SYSTEMS	"3" ++ XSCOPE.SYSTEMS KEYWORD
722	(2D2)	X'3'	0	XEQXENQ_XSCOPE_SYSPLEX	"3" ++ XSCOPE.SYSPLEX KEYWORD
723	(2D3)	BITSTRING	1	XEQXENQ_XCONTROL	++ XCONTROL
723	(2D3)	X'1'	0	XEQXENQ_XCONTROL_SHARED	"1" ++ XCONTROL.SHARED KEYWORD
723	(2D3)	X'2'	0	XEQXENQ_XCONTROL_EXCLUSIVE	"2" ++ XCONTROL.EXCLUSIVE KEYWORD
724	(2D4)	BITSTRING	1	XEQXENQ_XFLAGS1	++ FIELD_LABEL
		.1.. ....		XEQXENQ_XTEST_YES	"B'01000000'" ++ XTEST.YES KEYWORD
		..1. ....		XEQXENQ_XCONTENTIONACT_FAIL	"B'00100000'" ++ XCONTENTIONACT.FAIL KEYWORD
		...1 ....		XEQXENQ_XWAITTYPE_ECB	"B'00010000'" ++ XWAITTYPE.ECB KEYWORD
		.... 1...		XEQXENQ_XRESLIST_YES	"B'00001000'" ++ XRESLIST.YES KEYWORD
		.... .1..		XEQXENQ_XENQMAX_NO	"B'00000100'" ++ XENQMAX.NO KEYWORD
		.... ..1.		XEQXENQ_XRNL_NO	"B'00000010'" ++ XRNL.NO KEYWORD
		.... ...1		XEQXENQ_XQNAME_DO_NOT_OVERRIDE	"B'00000001'" ++ XQNAME.DO_NOT_OVERRIDE KEYWORD
725	(2D5)	BITSTRING	1	XEQXENQ_XFLAGS2	++ FIELD_LABEL
		1... ....		XEQXENQ_XRESERVEVOLUME_YES	"B'10000000'" ++ XRESERVEVOLUME.YES KEYWORD
		.1.. ....		XEQXENQ_XSYNCHRES_YES	"B'01000000'" ++ XSYNCHRES.YES KEYWORD
		..1. ....		XEQXENQ_XSYNCHRES_NO	"B'00100000'" ++ XSYNCHRES.NO KEYWORD
		...1 ....		XEQXENQ_XCONTROL_DO_NOT_OVERRIDE	"B'00010000'" ++ XCONTROL.DO_NOT_OVERRIDE KEYWORD
		.... 1...		XEQXENQ_XSCOPE_DO_NOT_OVERRIDE	"B'00001000'" ++ XSCOPE.DO_NOT_OVERRIDE KEYWORD
		.... .1..		XEQXENQ_XRNL_DO_NOT_OVERRIDE	"B'00000100'" ++ XRNL.DO_NOT_OVERRIDE KEYWORD
		.... ..1.		XEQXENQ_XSYNCHRES_DO_NOT_OVERRIDE	"B'00000010'" ++ XSYNCHRES.DO_NOT_OVERRIDE KEYWORD
		.... ...1		XEQXENQ_XRNAME_DO_NOT_OVERRIDE	"B'00000001'" ++ XRNAME.DO_NOT_OVERRIDE KEYWORD
726	(2D6)	BITSTRING	1	XEQXENQ_XFLAGS3	++ FIELD_LABEL
		1... ....		XEQXENQ_KEYUSED_CONTROL	"B'10000000'" ++ KEYUSED.CONTROL KEYWORD
		.... ...1		XEQXENQ_XRNAMELEN_DO_NOT_OVERRIDE	"B'00000001'" ++ XRNAMELEN.DO_NOT_OVERRIDE KEYWORD
727	(2D7)	BITSTRING	1	XEQXENQ_XFLAGS4	++ FIELD_LABEL
		.... ...1		XEQXENQ_XUCB@_DO_NOT_OVERRIDE	"B'00000001'" ++ XUCB@.DO_NOT_OVERRIDE KEYWORD
728	(2D8)	ADDRESS	8	XEQXENQ_XRESTABLE_ADDR3164	++ ADDR3164



Table 309. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
736	(2E0)	ADDRESS	8	XEQXENQ_XENQTOKEN_ADDR3164	++ ADDR3164
744	(2E8)	ADDRESS	8	XEQXENQ_XRETURNTABLE_ADDR3164	
752	(2F0)	ADDRESS	8	XEQXENQ_XENQTOKEN_TBL_ADDR3164	
760	(2F8)	ADDRESS	8	XEQXENQ_XRNAME_ADDR3164	++ ADDR3164
768	(300)	ADDRESS	8	XEQXENQ_XANSAREA_ADDR3164	++ ADDR3164
776	(308)	CHARACTER	8	XEQXENQ_XQNAME	++
784	(310)	CHARACTER	16	XEQXENQ_XOWNINGTTOKEN	++
800	(320)	SIGNED	4	XEQXENQ_XRESTABLE_ALET	++ ALET
804	(324)	SIGNED	4	XEQXENQ_XENQTOKEN_ALET	++ ALET
808	(328)	SIGNED	4	XEQXENQ_XRETURNTABLE_ALET	++ ALET
812	(32C)	SIGNED	4	XEQXENQ_XENQTOKEN_TBL_ALET	++ ALET
816	(330)	SIGNED	4	XEQXENQ_XRNAME_ALET	++ ALET
820	(334)	SIGNED	4	XEQXENQ_XANSAREA_ALET	++ ALET
824	(338)	SIGNED	4	XEQXENQ_XANSLEN	++
828	(33C)	ADDRESS	4	XEQXENQ_XECB@	++
832	(340)	ADDRESS	4	XEQXENQ_XUCB@	++
836	(344)	BITSTRING	2	XEQXENQ_XNUMRES	++
838	(346)	BITSTRING	1	XEQXENQ_XRNAMELEN	++
839	(347)	CHARACTER	1	XEQXENQ_XRSV0001	++ RESERVED
840	(348)	CHARACTER	8	XEQXENQ_XRSVNNNN	++ RESERVED
840	(348)	X'350'	0	XEQXENQ_PL_END	"*" ++ END OF BASE PLIST
722	(2D2)	BITSTRING	1	XEQXENQ_XSCOPEVAL	++
723	(2D3)	BITSTRING	1	XEQXENQ_XCONTROLVAL	++
848	(350)	X'80'	0	XEQXENQL	"*-XEQXENQ" ++ LENGTH OF PLIST
ISGENQ-2					
IARV64 MF=(L,XEQIARV),PLISTVER=MAX IARV64 list form MACDATE -02/08/21-<6>					
0	(0)	X'2D0'	0	M00M1617	"XEQIARV" ++ IARV64 NAME
720	(2D0)	DBL WORD	8	XEQIARV(0)	++ IARV64 PARM LIST
720	(2D0)	BITSTRING	1	XEQIARV_XVERSION	++ INPUT XVERSION
721	(2D1)	BITSTRING	1	XEQIARV_XREQUEST	++ XREQUEST
721	(2D1)	X'1'	0	XEQIARV_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
721	(2D1)	X'2'	0	XEQIARV_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
721	(2D1)	X'3'	0	XEQIARV_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
721	(2D1)	X'4'	0	XEQIARV_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
721	(2D1)	X'5'	0	XEQIARV_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
721	(2D1)	X'6'	0	XEQIARV_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
721	(2D1)	X'7'	0	XEQIARV_XREQUEST_DISCARDATA	"7" ++ XREQUEST.DISCARDATA KEYWORD
721	(2D1)	X'8'	0	XEQIARV_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
721	(2D1)	X'9'	0	XEQIARV_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
721	(2D1)	X'A'	0	XEQIARV_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
721	(2D1)	X'B'	0	XEQIARV_XREQUEST_CHANGEACCESS	



Table 309. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
					"11" ++ XREQUEST.CHANGEACCESS KEYWORD
721	(2D1)	X'C'	0	XEQIARV_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
721	(2D1)	X'D'	0	XEQIARV_XREQUEST_CHANGEGUARD	"13" ++ XREQUEST.CHANGEGUARD KEYWORD
721	(2D1)	X'E'	0	XEQIARV_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
721	(2D1)	X'F'	0	XEQIARV_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
721	(2D1)	X'10'	0	XEQIARV_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
721	(2D1)	X'11'	0	XEQIARV_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD
721	(2D1)	X'12'	0	XEQIARV_XREQUEST_PCIEUNFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD
721	(2D1)	X'13'	0	XEQIARV_XREQUEST_CHANGEATTRIBUTE	"19" ++ XREQUEST.CHANGEATTRIBUTE KEYWORD
722	(2D2)	BITSTRING	1	XEQIARV_XFLAGS0	++ FIELD_LABEL
		1... ....		XEQIARV_XMOTKNSOURCE_SYSTEM	"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1.. ....		XEQIARV_XMOTKNCREATOR_SYSTEM	"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1. ....		XEQIARV_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
723	(2D3)	BITSTRING	1	XEQIARV_XKEY	++
724	(2D4)	BITSTRING	1	XEQIARV_XFLAGS1	++ FIELD_LABEL
		1... ....		XEQIARV_KEYUSED_KEY	"B'10000000'" ++ KEYUSED.KEY KEYWORD
		.1.. ....		XEQIARV_KEYUSED_USERTKN	"B'01000000'" ++ KEYUSED.USERTKN KEYWORD
		..1. ....		XEQIARV_KEYUSED_TTOKEN	"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
		...1 ....		XEQIARV_KEYUSED_CONVERTSTART	"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD
		.... 1...		XEQIARV_KEYUSED_GUARDSIZE64	"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD
		.... .1..		XEQIARV_KEYUSED_CONVERTSIZE64	"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
		.... ..1.		XEQIARV_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		.... ...1		XEQIARV_KEYUSED_OWNERJOBNAME	"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
725	(2D5)	BITSTRING	1	XEQIARV_XFLAGS2	++ FIELD_LABEL
		1... ....		XEQIARV_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
		.1.. ....		XEQIARV_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
		..1. ....		XEQIARV_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1 ....		XEQIARV_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		XEQIARV_XCHANGEACCESS_GLOBAL	



Table 309. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
					"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		XEQIARV_XPAGEFRAMESIZE_1MEG	
					"B'00000100'" ++ XPAGEFRAMESIZE.1MEG KEYWORD
		.... ..1.		XEQIARV_XPAGEFRAMESIZE_MAX	"B'00000010'" ++ XPAGEFRAMESIZE.MAX KEYWORD
		.... ...1		XEQIARV_XPAGEFRAMESIZE_ALL	"B'00000001'" ++ XPAGEFRAMESIZE.ALL KEYWORD
726	(2D6)	BITSTRING	1	XEQIARV_XFLAGS3	++ FIELD_LABEL
		1... ....		XEQIARV_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1.. ....		XEQIARV_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1. ....		XEQIARV_XUSE2GT032G_YES	"B'00100000'" ++ XUSE2GT032G.YES KEYWORD
		...1 ....		XEQIARV_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD
		.... 1...		XEQIARV_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		XEQIARV_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		XEQIARV_XV64SHARED_NO	"B'00000010'" ++ XV64SHARED.NO KEYWORD
		.... ...1		XEQIARV_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
727	(2D7)	BITSTRING	1	XEQIARV_XFLAGS4	++ FIELD_LABEL
		1... ....		XEQIARV_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD
		.1.. ....		XEQIARV_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1. ....		XEQIARV_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1 ....		XEQIARV_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		XEQIARV_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		XEQIARV_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		XEQIARV_XCONVERT_FROMGUARD	"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD
		.... ...1		XEQIARV_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
728	(2D8)	DBL WORD	8	XEQIARV_XSEGMENTS	++
736	(2E0)	CHARACTER	16	XEQIARV_XTTOKEN	++
752	(2F0)	DBL WORD	8	XEQIARV_XUSERTKN	++
760	(2F8)	ADDRESS	8	XEQIARV_XORIGIN	++
768	(300)	ADDRESS	8	XEQIARV_XRANGLIST	++
776	(308)	ADDRESS	8	XEQIARV_XMEMOBJSTART	++
784	(310)	SIGNED	4	XEQIARV_XGUARDSIZE	++
788	(314)	SIGNED	4	XEQIARV_XCONVERTSIZE	++
792	(318)	SIGNED	4	XEQIARV_XALETVALUE	++
796	(31C)	SIGNED	4	XEQIARV_XNUMRANGE	++
800	(320)	ADDRESS	4	XEQIARV_XV64LISTPTR	++
804	(324)	SIGNED	4	XEQIARV_XV64LISTLENGTH	++
808	(328)	DBL WORD	8	XEQIARV_XCONVERTSTART	++



Table 309. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
816	(330)	DBL WORD	8	XEQIARV_XCONVERTSIZE64	++
824	(338)	DBL WORD	8	XEQIARV_XGUARDSIZE64	++
832	(340)	CHARACTER	8	XEQIARV_XUSERTOKEN	++
840	(348)	BITSTRING	1	XEQIARV_XDUMPPRIORITY	++
841	(349)	BITSTRING	1	XEQIARV_XFLAGS5	++ FIELD_LABEL
		1... ....		XEQIARV_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1.. ....		XEQIARV_XORDER_DUMPPRIORITY	"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1. ....		XEQIARV_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1 ....		XEQIARV_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD
		.... 1...		XEQIARV_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		XEQIARV_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		XEQIARV_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		.... ...1		XEQIARV_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
842	(34A)	BITSTRING	1	XEQIARV_XFLAGS6	++ FIELD_LABEL
		1... ....		XEQIARV_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1.. ....		XEQIARV_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1. ....		XEQIARV_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1 ....		XEQIARV_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		XEQIARV_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		XEQIARV_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		XEQIARV_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		.... ...1		XEQIARV_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD
843	(34B)	BITSTRING	1	XEQIARV_XFLAGS7	++ FIELD_LABEL
		1... ....		XEQIARV_KEYUSED_DUMP	"B'10000000'" ++ KEYUSED.DUMP KEYWORD
		.1.. ....		XEQIARV_KEYUSED_OPTIONVALUE	"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1. ....		XEQIARV_KEYUSED_SVCDUMPRGN	"B'00100000'" ++ KEYUSED.SVCDUMPRGN KEYWORD
		...1 ....		XEQIARV_XATTRIBUTE_DEFS	"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		XEQIARV_XATTRIBUTE_OWNERGONE	"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		XEQIARV_XATTRIBUTE_NOTOWNERGONE	"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD



Table 309. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... ..1.		XEQIARV_XTRACKINFO_YES	"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		.... ...1		XEQIARV_XUNLOCKED_YES	"B'00000001'" ++ XUNLOCKED.YES KEYWORD
844	(34C)	BITSTRING	1	XEQIARV_XDUMP	++ XDUMP
844	(34C)	X'0'	0	XEQIARV_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD
844	(34C)	X'1'	0	XEQIARV_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD
844	(34C)	X'2'	0	XEQIARV_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
844	(34C)	X'3'	0	XEQIARV_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
844	(34C)	X'20'	0	XEQIARV_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
844	(34C)	X'21'	0	XEQIARV_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
844	(34C)	X'FF'	0	XEQIARV_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
845	(34D)	BITSTRING	1	XEQIARV_XFLAGS8	++ FIELD_LABEL
		1... ....		XEQIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	"B'10000000'" ++ XPAGEFRAMESIZE.PAGEABLE1MEG KEYWOR
		.1.. ....		XEQIARV_XPAGEFRAMESIZE_DREF1MEG	"B'01000000'" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
		..1. ....		XEQIARV_XSADMP_YES	"B'00100000'" ++ XSADMP.YES KEYWORD
		...1 ....		XEQIARV_XSADMP_NO	"B'00010000'" ++ XSADMP.NO KEYWORD
		.... 1...		XEQIARV_XUSE2GT064G_YES	"B'00001000'" ++ XUSE2GT064G.YES KEYWORD
		.... .1..		XEQIARV_XDISCARDPAGES_YES	"B'00000100'" ++ XDISCARDPAGES.YES KEYWORD
		.... ..1.		XEQIARV_XEXECUTABLE_YES	"B'00000010'" ++ XEXECUTABLE.YES KEYWORD
		.... ...1		XEQIARV_XEXECUTABLE_NO	"B'00000001'" ++ XEXECUTABLE.NO KEYWORD
846	(34E)	BITSTRING	2	XEQIARV_XOWNERASID	++
848	(350)	BITSTRING	1	XEQIARV_XOPTIONVALUE	++
849	(351)	CHARACTER	8	XEQIARV_XRSV0001	++ RESERVED
857	(359)	CHARACTER	8	XEQIARV_XOWNERJOBNAME	++
865	(361)	CHARACTER	7	XEQIARV_XRSV0004	++ RESERVED
872	(368)	ADDRESS	8	XEQIARV_XDMPAGETABLE	++
880	(370)	DBL WORD	8	XEQIARV_XUNITS	++
888	(378)	BITSTRING	1	XEQIARV_XFLAGS9	++ FIELD_LABEL
		1... ....		XEQIARV_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1.. ....		XEQIARV_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1. ....		XEQIARV_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1 ....		XEQIARV_XPAGEFRAMESIZE_1M	"B'00010000'" ++ XPAGEFRAMESIZE.1M KEYWORD
		.... 1...		XEQIARV_XPAGEFRAMESIZE_2G	"B'00001000'" ++ XPAGEFRAMESIZE.2G KEYWORD
		.... .1..		XEQIARV_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
889	(379)	BITSTRING	1	XEQIARV_XFLAGS10	++ FIELD_LABEL
		1... ....		XEQIARV_KEYUSED_INORIGIN	"B'10000000'" ++ KEYUSED.INORIGIN KEYWORD
		.1.. ....		XEQIARV_XSENSITIVE_YES	"B'01000000'" ++ XSENSITIVE.YES KEYWORD



Table 309. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		..1. ....		XEQIARV_XSENSITIVE_NO	"B'00100000'" ++ XSENSITIVE.NO KEYWORD
		...1 ....		XEQIARV_KEYUSED_SENSITIVE	"B'00010000'" ++ KEYUSED.SENSITIVE KEYWORD
890	(37A)	BITSTRING	1	XEQIARV_XFLAGS11	++ FIELD_LABEL
		1... ....		XEQIARV_KEYUSED_OBJECTTYPE	"B'10000000'" ++ KEYUSED.OBJECTTYPE KEYWORD
		.1.. ....		XEQIARV_XOBJECTTYPE_POOL	"B'01000000'" ++ XOBJECTTYPE.POOL KEYWORD
		..1. ....		XEQIARV_XOBJECTTYPE_RSMINTERNAL	"B'00100000'" ++ XOBJECTTYPE.RSMINTERNAL KEYWORD
891	(37B)	CHARACTER	5	XEQIARV_XRSV0005	++ RESERVED
891	(37B)	X'380'	0	XEQIARV_PL_END	"*" ++ END OF BASE PLIST
752	(2F0)	DBL WORD	8	XEQIARV_XOUTMOTKN	++
752	(2F0)	DBL WORD	8	XEQIARV_XMOTKN	++
776	(308)	ADDRESS	8	XEQIARV_XINORIGIN	++
776	(308)	ADDRESS	8	XEQIARV_XINADDR	++
896	(380)	X'B0'	0	XEQIARVL	"*-XEQIARV" ++ LENGTH OF PLIST
IARV64-6					
896	(380)	DBL WORD	8	XEQI640R	Ptr to allocated area
904	(388)	DBL WORD	8	XEQI64SG	Number of segments
912	(390)	ADDRESS	2	(0)	Ensure area fits
912	(390)	DBL WORD	8	(0)	ALIGN XEQ WORK
912	(390)	X'240'	0	XEQPCEWS	"*-PCEWORK" XEQ PCE WORK AREA LENGTH

Table 310. Cross Reference for \$XEQWORK

Name	Offset	Hex Tag
M00M1616	0	2D0
M00M1617	0	2D0
PCE	0	
XEQASDNO	258	5
XEQASIDL	258	
XEQDEQL	194	18C
XEQDEQPL	18C	18C
XEQDEQST	18C	
XEQDOMID	264	
XEQDIME	254	
XEQENQL	188	17C
XEQENQPL	17C	180
XEQENQST	17C	
XEQFLAG1	216	
XEQFLAG2	249	



Table 310. Cross Reference for \$XEQWORK (continued)

Name	Offset	Hex Tag
XEQHSBCP	220	
XEQHSBCT	21C	
XEQIARV	2D0	
XEQIARV_KEYUSED_CONVERTSIZE64	2D4	4
XEQIARV_KEYUSED_CONVERTSTART	2D4	10
XEQIARV_KEYUSED_DUMP	34B	80
XEQIARV_KEYUSED_GUARDSIZE64	2D4	8
XEQIARV_KEYUSED_INORIGIN	379	80
XEQIARV_KEYUSED_KEY	2D4	80
XEQIARV_KEYUSED_MOTKN	2D4	2
XEQIARV_KEYUSED_OBJECTTYPE	37A	80
XEQIARV_KEYUSED_OPTIONVALUE	34B	40
XEQIARV_KEYUSED_OWNERJOBNAME	2D4	1
XEQIARV_KEYUSED_SENSITIVE	379	10
XEQIARV_KEYUSED_SVCDUMPRGN	34B	20
XEQIARV_KEYUSED_TTOKEN	2D4	20
XEQIARV_KEYUSED_UNITS	378	80
XEQIARV_KEYUSED_USERTKN	2D4	40
XEQIARV_PL_END	37B	380
XEQIARV_XAFFINITY_SYSTEM	2D6	40
XEQIARV_XALETVALUE	318	
XEQIARV_XAMOUNTSIZE_1MEG	34A	2
XEQIARV_XAMOUNTSIZE_4K	34A	4
XEQIARV_XATTRIBUTE_DEFS	34B	10
XEQIARV_XATTRIBUTE_NOTOWNERGONE	34B	4
XEQIARV_XATTRIBUTE_OWNERGONE	34B	8
XEQIARV_XCHANGEACCESS_GLOBAL	2D5	8
XEQIARV_XCLEAR_NO	2D7	40
XEQIARV_XCOND_YES	2D5	80
XEQIARV_XCONTROL_AUTH	2D5	20
XEQIARV_XCONVERT_FROMGUARD	2D7	2
XEQIARV_XCONVERT_TOGUARD	2D7	4
XEQIARV_XCONVERTSIZE	314	
XEQIARV_XCONVERTSIZE64	330	
XEQIARV_XCONVERTSTART	328	
XEQIARV_XDETACHFIXED_YES	34A	20
XEQIARV_XDISCARDPAGES_YES	0	4
XEQIARV_XDMPAGETABLE	368	
XEQIARV_XDOAUTHCHECKS_YES	34A	10



Table 310. Cross Reference for \$XEQWORK (continued)

Name	Offset	Hex Tag
XEQIARV_XDUMP	34C	
XEQIARV_XDUMP_ALL	34C	FF
XEQIARV_XDUMP_LIKECSA	34C	3
XEQIARV_XDUMP_LIKELSQA	34C	21
XEQIARV_XDUMP_LIKERGN	34C	20
XEQIARV_XDUMP_LIKESQA	34C	2
XEQIARV_XDUMP_NO	34C	1
XEQIARV_XDUMP_NONE	34C	0
XEQIARV_XDUMPPRIORITY	348	
XEQIARV_XDUMPPROTOCOL_YES	349	80
XEQIARV_XEXECUTABLE_NO	0	1
XEQIARV_XEXECUTABLE_YES	0	2
XEQIARV_XFLAGS0	2D2	
XEQIARV_XFLAGS1	2D4	
XEQIARV_XFLAGS10	379	
XEQIARV_XFLAGS11	37A	
XEQIARV_XFLAGS2	2D5	
XEQIARV_XFLAGS3	2D6	
XEQIARV_XFLAGS4	2D7	
XEQIARV_XFLAGS5	349	
XEQIARV_XFLAGS6	34A	
XEQIARV_XFLAGS7	34B	
XEQIARV_XFLAGS8	34D	
XEQIARV_XFLAGS9	378	
XEQIARV_XFPROT_NO	2D5	40
XEQIARV_XGUARDLOC_HIGH	2D5	10
XEQIARV_XGUARDSIZE	310	
XEQIARV_XGUARDSIZE64	338	
XEQIARV_XINADDR	308	
XEQIARV_XINORIGIN	308	
XEQIARV_XKEEPREAL_NO	2D7	1
XEQIARV_XKEY	2D3	
XEQIARV_XLOCALSYSAREA_YES	34A	8
XEQIARV_XLONG_NO	2D7	80
XEQIARV_XMATCH_MOTOKEN	2D2	20
XEQIARV_XMATCH_USERTOKEN	2D6	80
XEQIARV_XMEMLIMIT_COND	34A	1
XEQIARV_XMEMLIMIT_NO	34A	40
XEQIARV_XMEMOBJSTART	308	



Table 310. Cross Reference for \$XEQWORK (continued)

Name	Offset	Hex Tag
XEQIARV_XMOTKN	2F0	
XEQIARV_XMOTKNCREATOR_SYSTEM	2D2	40
XEQIARV_XMOTKNSOURCE_SYSTEM	2D2	80
XEQIARV_XNUMRANGE	31C	
XEQIARV_XOBJECTTYPE_POOL	37A	40
XEQIARV_XOBJECTTYPE_RSMINTERNAL	37A	20
XEQIARV_XOPTIONVALUE	350	
XEQIARV_XORDER_DUMPRIORITY	349	40
XEQIARV_XORIGIN	2F8	
XEQIARV_XOUTMOTKN	2F0	
XEQIARV_XOWNER_NO	2D6	10
XEQIARV_XOWNERASID	34E	
XEQIARV_XOWNERCOM_BYASID	349	1
XEQIARV_XOWNERCOM_HOME	349	8
XEQIARV_XOWNERCOM_PRIMARY	349	4
XEQIARV_XOWNERCOM_SYSTEM	349	2
XEQIARV_XOWNERJOBNAME	359	
XEQIARV_XPAGEFRAMESIZE_ALL	2D5	1
XEQIARV_XPAGEFRAMESIZE_DREF1MEG	0	40
XEQIARV_XPAGEFRAMESIZE_MAX	2D5	2
XEQIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	34D	80
XEQIARV_XPAGEFRAMESIZE_1M	378	10
XEQIARV_XPAGEFRAMESIZE_1MEG	2D5	4
XEQIARV_XPAGEFRAMESIZE_2G	378	8
XEQIARV_XRANGLIST	300	
XEQIARV_XREQUEST	2D1	
XEQIARV_XREQUEST_CHANGEACCESS	2D1	B
XEQIARV_XREQUEST_CHANGEATTRIBUTE	2D1	13
XEQIARV_XREQUEST_CHANGEGUARD	2D1	D
XEQIARV_XREQUEST_COUNTPAGES	2D1	10
XEQIARV_XREQUEST_DETACH	2D1	3
XEQIARV_XREQUEST_DISCARDATA	2D1	7
XEQIARV_XREQUEST_GETCOMMON	2D1	F
XEQIARV_XREQUEST_GETSHARED	2D1	2
XEQIARV_XREQUEST_GETSTOR	2D1	1
XEQIARV_XREQUEST_LIST	2D1	E
XEQIARV_XREQUEST_PAGEFIX	2D1	4
XEQIARV_XREQUEST_PAGEIN	2D1	8
XEQIARV_XREQUEST_PAGEOUT	2D1	6



Table 310. Cross Reference for \$XEQWORK (continued)

Name	Offset	Hex Tag
XEQIARV_XREQUEST_PAGEUNFIX	2D1	5
XEQIARV_XREQUEST_PCIEFIX	2D1	11
XEQIARV_XREQUEST_PCIEUNFIX	2D1	12
XEQIARV_XREQUEST_PROTECT	2D1	9
XEQIARV_XREQUEST_SHAREMEMOBJ	2D1	A
XEQIARV_XREQUEST_UNPROTECT	2D1	C
XEQIARV_XRSV0001	351	
XEQIARV_XRSV0004	361	
XEQIARV_XRSV0005	37B	
XEQIARV_XSADMP_NO	0	10
XEQIARV_XSADMP_YES	0	20
XEQIARV_XSEGMENTS	2D8	
XEQIARV_XSENSITIVE_NO	379	20
XEQIARV_XSENSITIVE_YES	379	40
XEQIARV_XSVCDUMPRGN_ALL	2D6	1
XEQIARV_XSVCDUMPRGN_NO	2D6	4
XEQIARV_XTRACKINFO_YES	34B	2
XEQIARV_XTTOKEN	2E0	
XEQIARV_XTYPE_DREF	349	10
XEQIARV_XTYPE_FIXED	378	4
XEQIARV_XTYPE_PAGEABLE	349	20
XEQIARV_XUNITS	370	
XEQIARV_XUNITSIZE_1M	378	40
XEQIARV_XUNITSIZE_2G	378	20
XEQIARV_XUNLOCKED_YES	34B	1
XEQIARV_XUSERTKN	2F0	
XEQIARV_XUSERTOKEN	340	
XEQIARV_XUSE2GT032G_YES	2D6	20
XEQIARV_XUSE2GT064G_YES	0	8
XEQIARV_XVERSION	2D0	
XEQIARV_XVIEW_HIDDEN	2D7	8
XEQIARV_XVIEW_READONLY	2D7	20
XEQIARV_XVIEW_SHAREDWRITE	2D7	10
XEQIARV_XV64COMMON_NO	34A	80
XEQIARV_XV64LISTLENGTH	324	
XEQIARV_XV64LISTPTR	320	
XEQIARV_XV64SELECT_NO	2D6	8
XEQIARV_XV64SHARED_NO	2D6	2
XEQIARVL	380	B0



Table 310. Cross Reference for \$XEQWORK (continued)

Name	Offset	Hex Tag
XEQI640R	380	
XEQI64SG	388	
XEQJBNML	27C	
XEQJBNMN	27C	5
XEQJNAME	240	
XEQJQEF7	248	
XEQLDVID	230	
XEQLST	213	204
XEQLSTTK	15C	
XEQMSGWA	198	
XEQNXTTK	158	
XEQOFFST	150	
XEQPARM	204	
XEQPCEWS	390	240
XEQPHWAI	238	
XEQPLIST	2D0	
XEQPTIME	250	
XEQRSV1	218	
XEQRSV2	2A5	
XEQSJBFB	217	
XEQSJBFB1	214	
XEQSJBFB2	215	
XEQSJBPR	274	
XEQSJFN1	275	
XEQSVJET	2B0	
XEQTOPST	160	
XEQTQE	268	
XEQWLMIS	2A4	
XEQXECB	164	
XEQXENQ	2D0	
XEQXENQ_KEYUSED_CONTROL	2D6	80
XEQXENQ_PL_END	348	350
XEQXENQ_XANSAREA_ADDR3164	300	
XEQXENQ_XANSAREA_ALET	334	
XEQXENQ_XANSLEN	338	
XEQXENQ_XCOND_NO	0	1
XEQXENQ_XCOND_YES	0	2
XEQXENQ_XCONTENTIONACT_FAIL	2D4	20
XEQXENQ_XCONTROL	2D3	



Table 310. Cross Reference for \$XEQWORK (continued)

Name	Offset	Hex Tag
XEQXENQ_XCONTROL_DO_NOT_OVERRIDE	2D5	10
XEQXENQ_XCONTROL_EXCLUSIVE	2D3	2
XEQXENQ_XCONTROL_SHARED	2D3	1
XEQXENQ_XCONTROLVAL	2D3	
XEQXENQ_XECB@	33C	
XEQXENQ_XENQMAX_NO	2D4	4
XEQXENQ_XENQTOKEN_ADDR3164	2E0	
XEQXENQ_XENQTOKEN_ALET	324	
XEQXENQ_XENQTOKENTBL_ADDR3164	2F0	
XEQXENQ_XENQTOKENTBL_ALET	32C	
XEQXENQ_XFLAGS1	2D4	
XEQXENQ_XFLAGS2	2D5	
XEQXENQ_XFLAGS3	2D6	
XEQXENQ_XFLAGS4	2D7	
XEQXENQ_XNUMRES	344	
XEQXENQ_XOWNINGTTOKEN	310	
XEQXENQ_XQNAME	308	
XEQXENQ_XQNAME_DO_NOT_OVERRIDE	2D4	1
XEQXENQ_XREQUEST_CHANGE	0	2
XEQXENQ_XREQUEST_OBTAIN	0	1
XEQXENQ_XREQUEST_RELEASE	0	3
XEQXENQ_XRESERVEVOLUME_YES	2D5	80
XEQXENQ_XRESLIST_YES	2D4	8
XEQXENQ_XRESTABLE_ADDR3164	2D8	
XEQXENQ_XRESTABLE_ALET	320	
XEQXENQ_XRETURNTABLE_ADDR3164	2E8	
XEQXENQ_XRETURNTABLE_ALET	328	
XEQXENQ_XRNAME_ADDR3164	2F8	
XEQXENQ_XRNAME_ALET	330	
XEQXENQ_XRNAME_DO_NOT_OVERRIDE	2D5	1
XEQXENQ_XRNAMELEN	346	
XEQXENQ_XRNAMELEN_DO_NOT_OVERRIDE	2D6	1
XEQXENQ_XRNL_DO_NOT_OVERRIDE	2D5	4
XEQXENQ_XRNL_NO	2D4	2
XEQXENQ_XRSVNNNN	348	
XEQXENQ_XRSV0000	2D1	
XEQXENQ_XRSV0001	347	
XEQXENQ_XSCOPE	2D2	
XEQXENQ_XSCOPE_DO_NOT_OVERRIDE	2D5	8



Table 310. Cross Reference for \$XEQWORK (continued)

Name	Offset	Hex Tag
XEQXENQ_XSCOPE_STEP	2D2	1
XEQXENQ_XSCOPE_SYSPLEX	2D2	3
XEQXENQ_XSCOPE_SYSTEM	2D2	2
XEQXENQ_XSCOPE_SYSTEMS	2D2	3
XEQXENQ_XSCOPEVAL	2D2	
XEQXENQ_XSYNCHRES_DO_NOT_OVERRIDE	2D5	2
XEQXENQ_XSYNCHRES_NO	2D5	20
XEQXENQ_XSYNCHRES_YES	2D5	40
XEQXENQ_XTEST_YES	2D4	40
XEQXENQ_XUCB@	340	
XEQXENQ_XUCB@_DO_NOT_OVERRIDE	2D7	1
XEQXENQ_XVERSION	2D0	
XEQXENQ_XWAITTYPE_ECB	2D4	10
XEQXENQL	350	80
XEQXPARM	154	
XEQXSJB	154	
XEQXWM	24C	
XEQ1NDUP	216	80
XEQ1NOPT	216	10
XEQ1PHDS	216	2
XEQ1PHDT	216	4
XEQ1PHNR	216	1
XEQ1SCAN	216	40
XEQ1X14	216	20
XEQ1714I	216	8
XEQ2SVJL	249	40
XEQ2WITH	249	80
XEQ715DM	278	

## \$XFMWORK information

### \$XFMWORK programming interface information

\$XFMWORK is a programming interface.

### \$XFMWORK heading information

**Common name:** SPOOL Transfer I/O Manager Work Area  
**Macro ID:** \$XFMWORK  
**DSECT name:** PCE (\$XFMWORK is part of the PCE DSECT)



**Owning component:** JES2 (SC1BH)

**Eye-catcher ID:** 'PCE '  
Offset: PCEEYE-PCE  
Length: 4

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

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

**Created by:** See \$PCE

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

**Serialization:** Normal PCE dispatch serialization

**Function:** The fields in this PCE work area are used by the SPOOL offload manager PCE. \$XFMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$XFMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCExFMID in the second byte of field PCEID.  
This PCE is not device related. Field PCEDCT is zero.

## \$XFMWORK mapping

Table 311. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP SPOOL TRANSFER I/O MANAGER
336	(150)	BITSTRING	12	XFMSCQTQE	TQE FOR TERMIN. INTERVAL SCANS
348	(15C)	ADDRESS	4	XFMSCPTR	POINTER TO NEXT SCAN ELEMENT
352	(160)	ADDRESS	4	XFMBUFQ	QUEUE FOR REORDERED COMPLETE BUFFERS
356	(164)	ADDRESS	4	XFMSCDCT	SAVE AREA FOR SUBT SCAN DCT PNTR
360	(168)	DBL WORD	8	XFMCTIME	WORK AREA FOR TERM INTERVL SCAN
368	(170)	BITSTRING	1	XFMMASK	COPY OF LOW ORDER BYTE OF \$STIMASK
369	(171)	BITSTRING	1	XFMFLAG1	TIMER ACTIVE FLAG
		1111 1111		XFM1TACT	"X'FF'" TIMER IS ACTIVE
		.... ....		XFM1EXP	"X'00'" TIMER IS EXPIRED
370	(172)	BITSTRING	1	XFMFLAG2	SECOND FLAG BYTE
		1... ....		XFM2STRT	"B'10000000'" TRANS/RECEIVER BEEN STARTED
371	(173)	CHARACTER	125	XFMMSG	AREA FOR BUILDING MESSAGES
371	(173)	X'A0'	0	XFMLEN	"*-PCEWORK" JOB RECEIVER PCE WORK AREA LENGTH



Table 312. Cross Reference for \$XFMWORK

Name	Offset	Hex Tag
PCE	0	
XFMBUFQ	160	
XFMCTIME	168	
XFMFLAG1	171	
XFMFLAG2	172	
XFMLEN	173	A0
XFMMASK	170	
XFMMSG	173	
XFMSCDCT	164	
XFMSCPTR	15C	
XFMSCTQE	150	
XFM1EXP	171	0
XFM1TACT	171	FF
XFM2STRT	172	80

## \$XIT information

### \$XIT heading information

<b>Common name:</b>	Exit information table
<b>Macro ID:</b>	\$XIT
<b>DSECT name:</b>	XIT
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'XIT ' Offset: -8 (prefix field \$CSPID, before all XITs) Length: 4
<b>Storage attributes:</b>	Subpool: 241 Key: 1 Residency: Virtual and real storage are anywhere, above or below 16M, in common storage.
<b>Size:</b>	See the XITLNGTH equate.
<b>Created by:</b>	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.
<b>Pointed to by:</b>	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 mapping

Table 313. Structure XIT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	XIT	HASP EXIT INFO TABLE DSECT
0	(0)	BITSTRING	1	XITFLAGS	EXIT FLAGS
		1... ....		XITENBLD	"B'10000000" Exit is enabled
		.1.. ....		XITTRACE	"B'01000000" Exit is tracing
0	(0)	X'C0'	0	XITEBLTR	"XITENBLD+XITTRACE" Enabled and tracing
		..1. ....		XITENTDS	"B'00100000" Exit was entered while it was disabled
		...1 ....		XITRFRSH	"B'00010000" Refresh routine list
		.... 1...		XITBPD	"B'00001000" Bypass Exit point defined check for Exit point in HASPFSSM
		.... ..1.		XITCMN	"B'00000010" Exit must be in CSA/LPA
		.... ...1		XITDEF	"B'00000001" Exit is defined
0	(0)	X'81'	0	XITDENBL	"XITDEF+XITENBLD" EXIT IS DEFINED AND ENABLED
1	(1)	ADDRESS	1	XITNUMBR	Exit number
2	(2)	BITSTRING	2		Reserved
4	(4)	ADDRESS	4	XITXRTAD	Address of the first XRT entry for this exit point
8	(8)	CHARACTER	1	XITENVIR	Assembly environment(s) for the exit, see MITENVIR
9	(9)	BITSTRING	2		Reserved for future use
11	(B)	BITSTRING	1	XITFDIAG	Flags for internal testing
		1... ....		XITFWTO	"B'10000000" WTO
		.1.. ....		XITFWTOL	"B'01000000" WTO (long)
		..1. ....		XITFWTOR	"B'00100000" WTOR
		...1 ....		XITFWTOS	"B'00010000" WTOR (special)
		.... 1...		XITFWAIT	"B'00001000" WTOR (MVS WAIT)
		.... .1..		XITFLOOP	"B'00000100" LOOP
		.... ..1.		XITFEXIT	"B'00000010" EXIT
		.... ...1		XITF\$AIT	"B'00000001" \$WAIT
11	(B)	X'C'	0	XITLNPTH	"*-XIT" LENGTH OF DSECT
0	(0)	CHARACTER	12	XITE	XIT entry



Table 314. Cross Reference for \$XIT

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

## \$XMAS information

### \$XMAS programming interface information

\$XMAS is a programming interface.

### \$XMAS heading information

<b>Common name:</b>	JES2 Cross MAS Coupling Block and XCF MAS Member Status Block
<b>Macro ID:</b>	\$XMAS
<b>DSECT name:</b>	XMA, XMAQENT
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	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 mapping

Table 315. Structure XMA

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	XMA	Cross MAS Coupling DSECT
0	(0)	CHARACTER	4	XMAID	XMAS Identifier
4	(4)	BITSTRING	1	XMAVRSN	XMAS Version
4	(4)	X'2'	0	XMAVNUM	"2" Version Number
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	DBL WORD	8	XMAMEMDT	MEMDATA passed on join Reserved for IBM use
16	(10)	BITSTRING	8		Reserved for future use
24	(18)	BITSTRING	16	XMAMEMNM	XCF member name consists of node name and SID with blanks removed
40	(28)	SIGNED	4	XMARTN	XCF return code
44	(2C)	SIGNED	4	XMARSN	XCF reason code
48	(30)	CHARACTER	8	XMASERV	JESXCF service name
56	(38)	BITSTRING	1	XMAFLAG1	Footprint flag
		1... ....		XMA1JOIN	"B'10000000" Join complete
		.1.. ....		XMA1INIT	"B'01000000" XCF processor initialized
		...1 ....		XMA1AXMA	"B'00010000" This is an alternate XMAS
57	(39)	BITSTRING	1	XMAFLAG2	FRR flag
		1... ....		XMA2FRR	"B'10000000" Group exit FRR entered once



Table 315. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1... ....		XMA2CDEL	"B'01000000'" Cell to delete in XCFGEX
58	(3A)	BITSTRING	1	XMAMODE	Sysplex mode FLAG
		.... ...1		XMAMLOCL	"B'00000001'" Local mode
59	(3B)	BITSTRING	1	XMAFLAG3	Flag is used for footprint
		1... ....		XMA3INIT	"B'10000000'" In XCFINIT code
		.1... ....		XMA3SYSG	"B'01000000'" In XCFSGONE routine
		..1. ....		XMA3MEMS	"B'00100000'" In XCFEMEMS routine
		...1 ....		XMA3USRS	"B'00010000'" In XCFEUSRS routine
		.... 1...		XMA3JOIN	"B'00001000'" In XCFJOIN routine
		.... .1..		XMA3USTA	"B'00000100'" In XCFUSTAT routine
		.... ..1.		XMA3LEAV	"B'00000010'" In XCFLEAVE routine
		.... ...1		XMA3QUER	"B'00000001'" In XCFQSTAT routine
60	(3C)	BITSTRING	1	XMAFLAG4	Flag is used for footprint
		1... ....		XMA4DQ	"B'10000000'" XCFMAIN process requests
		.1... ....		XMA4MAPE	"B'01000000'" XCFMAPEV maps event to QSE XCFDQ thru XCFDOR labels
		..1. ....		XMA4PURG	"B'00100000'" XCFPURG delete old members
		...1 ....		XMA4DELT	"B'00010000'" XCFDELET delete old members
		.... 1...		XMA4MQER	"B'00001000'" In XCFMSTAT routine
		.... .1..		XMA4MEMN	"B'00000100'" In XCFMEMN routine
		.... ..1.		XMA4XMQU	"B'00000010'" In XCFXMAQU routine
61	(3D)	BITSTRING	1	XMAFLAG5	Flag for service routines
		1... ....		XMA5ESYS	"B'10000000'" XCFMAPEV has updated a QSE for automatic ESYS
62	(3E)	BITSTRING	1	XMAFLAG6	Flag marks blocks in error
		1... ....		XMA6XMAS	"B'10000000'" \$XMAS has error fields
63	(3F)	BITSTRING	1		Reserved for IBM use
64	(40)	SIGNED	4	(0)	
64	(40)	BITSTRING	24	XMAXECB	XECB POSTed on events sent from group exit.
88	(58)	SIGNED	4		Reserved for IBM use
92	(5C)	SIGNED	4		Reserved for IBM use
92	(5C)	X'60'	0	XMAVRALN	"*-XMA" Size of area of XMAS to be included in VRA
96	(60)	SIGNED	4		Reserved for IBM use
100	(64)	BITSTRING	4	XMASYTOK(0)	System id/token for MVS
100	(64)	BITSTRING	1	XMASNUM	System slot number
101	(65)	BITSTRING	3		System number
104	(68)	CHARACTER	8	XMASYSNM	System name except in the event of IXCJOIN failure (XMA1JOIN off ) then null
112	(70)	CHARACTER	8	XMAPLXNM	Sysplex name except in the event of IXCJOIN failure (XMA1JOIN off ) then null
120	(78)	SIGNED	4	XMAPTIME	Last entry to XCFPURG
124	(7C)	SIGNED	4		Reserved for IBM use



Table 315. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
128	(80)	CHARACTER	4	XMASIDNM	SID name work area for messages
132	(84)	SIGNED	4	XMAMADDR	Message address
136	(88)	SIGNED	4	XMAMLEN	Message length
140	(8C)	SIGNED	4	XMAMTOKE(2)	JESXCF Message token
152	(98)	DBL WORD	8	XMAMTOKN	XCF Member token
160	(A0)	BITSTRING	4	XMAMEMUP	MAS member up table
164	(A4)	BITSTRING	4	XMAMEMAT	MAS member active table (XMAMEMUP + hot-startable)
168	(A8)	BITSTRING	4	XMANPMUP	NPM member up table
172	(AC)	BITSTRING	4	XMACDCUP	CDC member up table
176	(B0)	SIGNED	4	XMAAXRQ	Active XRQ being processed
180	(B4)	BITSTRING	200	XMAQDATA	Work area for XMAQENT
380	(17C)	SIGNED	4	XMADIAG	JESXCF Diagnostic area
384	(180)	DBL WORD	8	(0)	
384	(180)	CHARACTER	8	XMAJNNM	Node name use to join XCF (part of XCF member name)

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

392	(188)	SIGNED	4	XMABLDLDM(0)	Control block ID
396	(18C)	BITSTRING	4		Console ID
400	(190)	ADDRESS	4		Address of the CART
404	(194)	ADDRESS	4		Pointer for JOBID
408	(198)	ADDRESS	4		Control block address
412	(19C)	ADDRESS	4		Display routine address
416	(1A0)	ADDRESS	4	(6)	6 word work area
440	(1B8)	ADDRESS	4		Caller's R11 value
444	(1BC)	BITSTRING	2		ROUT code for Message
446	(1BE)	BITSTRING	2		Not used
448	(1C0)	CHARACTER	4		Message ID
452	(1C4)	CHARACTER	1		Separator character
453	(1C5)	ADDRESS	1		Flag byte 1
454	(1C6)	ADDRESS	1		'DISPER'
455	(1C7)	ADDRESS	1		Flag byte 2
456	(1C8)	ADDRESS	1		Flag byte 3
457	(1C9)	ADDRESS	1		Severity of message
458	(1CA)	CHARACTER	8		Symbolic name of dest.
466	(1D2)	BITSTRING	14		Not used
480	(1E0)	ADDRESS	4	(0)	Ensure multiple of 4
480	(1E0)	ADDRESS	2	(0)	
0	(0)	X'58'	0	XMABLDLML	"*-XMABLDLDM" Size of \$BLDMSGGL expansion

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.



Table 315. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
480	(1E0)	DBL WORD	8	(0)	
480	(1E0)	BITSTRING	1	XMAXUSST	HASPCXF USER STATE FIELD
End of the XMAXUS field.					
512	(200)	SIGNED	4	XMEMEMST	Anchor for answer area obtained to IXCQUERY all members in SYSZJES2 group
516	(204)	SIGNED	4	XMAOXMAS	Original XMAS. Invalid XMAS found in recovery
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.					
520	(208)	BITSTRING	16	XMAOTHMN	Work area to build and contain other member names
536	(218)	BITSTRING	8	XMAPLIWK	Sysplex id work area
544	(220)	SIGNED	4	XMAIFALN	Length of answer area
548	(224)	ADDRESS	4	XMAIFAA	IXZXIXIF answer area pointer
552	(228)	DBL WORD	8	(0)	Double word alignment
IXCQUERY MF=(L,XMAMFLQR) IXCQUERY list area MACDATE -12/13/22-<2>					
0	(0)	X'228'	0	M00M1613	"XMAMFLQR" ++ IXCQUERY NAME
552	(228)	DBL WORD	8	XMAMFLQR(0)	++ IXCQUERY PARM LIST
552	(228)	BITSTRING	1	XMAMFLQR_XVERSION	++ INPUT XVERSION
553	(229)	BITSTRING	1	XMAMFLQR_XREQTYPE	++ XREQTYPE
553	(229)	X'10'	0	XMAMFLQR_XREQTYPE_IMMEDIATE	"16" ++ XREQTYPE.IMMEDIATE KEYWORD
553	(229)	X'5'	0	XMAMFLQR_XREQTYPE_DEFER	"5" ++ XREQTYPE.DEFER KEYWORD
554	(22A)	BITSTRING	1	XMAMFLQR_XREQINFO	++ XREQINFO
554	(22A)	X'80'	0	XMAMFLQR_XREQINFO_GROUP	"128" ++ XREQINFO.GROUP KEYWORD
554	(22A)	X'40'	0	XMAMFLQR_XREQINFO_SYSPLEX	"64" ++ XREQINFO.SYSPLEX KEYWORD
554	(22A)	X'3F'	0	XMAMFLQR_XREQINFO_CDS	"63" ++ XREQINFO.CDS KEYWORD
554	(22A)	X'3E'	0	XMAMFLQR_XREQINFO_CDS_ALLDATA	"62" ++ XREQINFO.CDS_ALLDATA KEYWORD
554	(22A)	X'20'	0	XMAMFLQR_XREQINFO_CF	"32" ++ XREQINFO.CF KEYWORD
554	(22A)	X'10'	0	XMAMFLQR_XREQINFO_STR	"16" ++ XREQINFO.STR KEYWORD
554	(22A)	X'8'	0	XMAMFLQR_XREQINFO_CF_ALLDATA	"8" ++ XREQINFO.CF_ALLDATA KEYWORD
554	(22A)	X'4'	0	XMAMFLQR_XREQINFO_STR_ALLDATA	"4" ++ XREQINFO.STR_ALLDATA KEYWORD
554	(22A)	X'2'	0	XMAMFLQR_XREQINFO_ARMSTATUS	"2" ++ XREQINFO.ARMSTATUS KEYWORD
554	(22A)	X'1'	0	XMAMFLQR_XREQINFO_ARMS_ALLDATA	"1" ++ XREQINFO.ARMS_ALLDATA KEYWORD
555	(22B)	BITSTRING	1	XMAMFLQR_XQUAALEVEL	++



Table 315. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
556	(22C)	ADDRESS	4	XMAMFLQR_XANSAREA_ADDR	++ ADDR
560	(230)	SIGNED	4	XMAMFLQR_XANSAREA_ALET	++ ALET
564	(234)	SIGNED	4	XMAMFLQR_XANSLEN	++
568	(238)	CHARACTER	8	XMAMFLQR_XGRPNAME	++
576	(240)	CHARACTER	16	XMAMFLQR_XMEMNAME	++
576	(240)	X'250'	0	XMAMFLQR_PL_END	"*" ++ END OF BASE PLIST
576	(240)	BITSTRING	8	XMAMFLQR_XMEMTOKEN	++
568	(238)	CHARACTER	8	XMAMFLQR_XCFNAME	++
576	(240)	CHARACTER	16	XMAMFLQR_XSTRNAME	++
568	(238)	CHARACTER	8	XMAMFLQR_XCDSTYPE	++
592	(250)	X'28'	0	XMAMFLQRL	"*-XMAMFLQR" ++ LENGTH OF PLIST
IXCQUERY-2					
592	(250)	DBL WORD	8	(0)	Double word alignment
IXZXIXAT MF=(L, XMAMFLAT) IXZXIXAT list area MACDATE -00/01/11-<6>					
0	(0)	X'250'	0	M00M1615	"XMAMFLAT" ++ IXZXIXAT NAME
592	(250)	DBL WORD	8	XMAMFLAT(0)	++ IXZXIXAT PARM LIST
592	(250)	BITSTRING	1	XMAMFLAT_XVERSION	++ INPUT XVERSION
593	(251)	CHARACTER	6	XMAMFLAT_XEYECATCH	++ CONSTANT
599	(257)	CHARACTER	1	XMAMFLAT_XRSV0001	++ RESERVED
600	(258)	CHARACTER	8	XMAMFLAT_XGROUP	++
608	(260)	CHARACTER	16	XMAMFLAT_XMEMBER	++
624	(270)	CHARACTER	8	XMAMFLAT_XRELEASE	++
632	(278)	SIGNED	4	XMAMFLAT_XMAINTLVL	++ CONSTANT
636	(27C)	SIGNED	4	XMAMFLAT_XGROUPTOKEN	++
640	(280)	BITSTRING	1	XMAMFLAT_XFLAG1	++ FIELD_LABEL
		1... ....		XMAMFLAT_XWHICHJES_JES2	"B'10000000'" ++ XWHICHJES.JES2 KEYWORD
		.1.. ....		XMAMFLAT_XWHICHJES_JES3	"B'01000000'" ++ XWHICHJES.JES3 KEYWORD
		..1. ....		XMAMFLAT_XWHICHJES_J3FSS	"B'00100000'" ++ XWHICHJES.J3FSS KEYWORD
		...1 ....		XMAMFLAT_XWHICHJES_INIT	"B'00010000'" ++ XWHICHJES.INIT KEYWORD
		.... 1...		XMAMFLAT_XWHICHJES_COMMON	"B'00001000'" ++ XWHICHJES.COMMON KEYWORD
		.... .1..		XMAMFLAT_XWHICHJES_J3CIFSS	"B'00000100'" ++ XWHICHJES.J3CIFSS KEYWORD
		.... ..1.		XMAMFLAT_XWHICHJES_J2SPOOL	"B'00000010'" ++ XWHICHJES.J2SPOOL KEYWORD
641	(281)	BITSTRING	1	XMAMFLAT_XFLAG2	++ FIELD_LABEL
		1... ....		XMAMFLAT_XJ3CONNECT_NO	"B'10000000'" ++ XJ3CONNECT.NO KEYWORD
		.1.. ....		XMAMFLAT_XJ3CONNECT_YES	"B'01000000'" ++ XJ3CONNECT.YES KEYWORD
642	(282)	CHARACTER	2	XMAMFLAT_XRSV0002	++ RESERVED
644	(284)	SIGNED	4	XMAMFLAT_XDIAG	++



Table 315. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
648	(288)	CHARACTER	8	XMAMFLAT_XLINKPARMS	++ FIELD_LABEL
648	(288)	X'40'	0	XMAMFLATL	"*-XMAMFLAT" ++ LENGTH OF PLIST
IXZXIXAT-6					
656	(290)	DBL WORD	8	(0)	Double word alignment
IXZXIXDT MF=(L, XMAMFLDT) IXZXIXDT list area MACDATE -00/02/02-<1>					
0	(0)	X'290'	0	M00M1616	"XMAMFLDT" ++ IXZXIXDT NAME
656	(290)	DBL WORD	8	XMAMFLDT(0)	++ IXZXIXDT PARM LIST
656	(290)	BITSTRING	1	XMAMFLDT_XVERSION	++ INPUT XVERSION
657	(291)	CHARACTER	6	XMAMFLDT_XEYECATCH	++ CONSTANT XEYECATCH
663	(297)	CHARACTER	1	XMAMFLDT_XRSV0001	++ RESERVED XRSV0001
664	(298)	ADDRESS	4	XMAMFLDT_XGROUPTOKEN	++ XGROUPTOKEN
668	(29C)	CHARACTER	8	XMAMFLDT_XLINKPARMS	++ FIELD_LABEL XLINKPARMS
668	(29C)	X'14'	0	XMAMFLDTL	"*-XMAMFLDT" ++ LENGTH OF PLIST
IXZXIXDT-1					
680	(2A8)	DBL WORD	8	(0)	Double word alignment
IXZXIXMB MF=(L, XMAMFLMB) IXZXIXMB list area MACDATE -93/05/10-<1>					
680	(2A8)	SIGNED	2	M00M1617(0)	IXZXIXMB-1
680	(2A8)	DBL WORD	8	XMAMFLMB(0)	++ IXZXIXMB PARM LIST
680	(2A8)	BITSTRING	1	XMAMFLMB_XVERSION	++ INPUT XVERSION
681	(2A9)	CHARACTER	6	XMAMFLMB_XEYECATCH	++ CONSTANT XEYECATCH
687	(2AF)	CHARACTER	1	XMAMFLMB_XRSV0001	++ RESERVED XRSV0001
688	(2B0)	CHARACTER	16	XMAMFLMB_XMBOXNAME	++ XMBOXNAME
704	(2C0)	ADDRESS	4	XMAMFLMB_XPOSTXIT	++ XPOSTXIT
708	(2C4)	ADDRESS	4	XMAMFLMB_XPOSTDATA	++ XPOSTDATA
712	(2C8)	SIGNED	4	XMAMFLMB_XPOSTALET	++ XPOSTALET
716	(2CC)	SIGNED	4	XMAMFLMB_XGROUPTOKEN	++ XGROUPTOKEN
720	(2D0)	BITSTRING	1	XMAMFLMB_XSYSEVENTS	++ FIELD_LABEL
		1... ....		XMAMFLMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1.. ....		XMAMFLMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
720	(2D0)	X'29'	0	XMAMFLMBL	"*-XMAMFLMB" ++ LENGTH OF PLIST
IXZXIXMB-1					
724	(2D4)	SIGNED	4		Reserved for IBM use
728	(2D8)	DBL WORD	8	(0)	Double word alignment
IXZXIXUS MF=(L, XMAMFLUS) IXZXIXUS list area MACDATE -93/05/10-<1>					
728	(2D8)	SIGNED	2	M00M1618(0)	IXZXIXUS-1
728	(2D8)	DBL WORD	8	XMAMFLUS(0)	++ IXZXIXUS PARM LIST
728	(2D8)	BITSTRING	1	XMAMFLUS_XVERSION	++ INPUT XVERSION



Table 315. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
729	(2D9)	CHARACTER	6	XMAMFLUS_XEYECATCH	++ CONSTANT XEYECATCH
735	(2DF)	CHARACTER	1	XMAMFLUS_XRSV0001	++ RESERVED XRSV0001
736	(2E0)	CHARACTER	32	XMAMFLUS_XUSTATE	++ XUSTATE
768	(300)	SIGNED	4	XMAMFLUS_XGROUPTOKEN	++ XGROUPTOKEN
772	(304)	BITSTRING	1	XMAMFLUS_XUPDTYPE	++ INPUT
		1... ....		XMAMFLUS_XUPDTYPE_REPLACE	"B'10000000'" ++ XUPDTYPE.REPLACE KEYWORD
		.1.. ....		XMAMFLUS_XUPDTYPE_AND	"B'01000000'" ++ XUPDTYPE.AND KEYWORD
		..1. ....		XMAMFLUS_XUPDTYPE_OR	"B'00100000'" ++ XUPDTYPE.OR KEYWORD
772	(304)	X'2D'	0	XMAMFLUSL	"*-XMAMFLUS" ++ LENGTH OF PLIST
IXZXIXUS-1					
776	(308)	SIGNED	4		Reserved for IBM use
784	(310)	DBL WORD	8	(0)	Double word alignment
IXZXIXIF MF=(L, XMAMFLIF) IXZXIXIF list area MACDATE -11/12/03-<2>					
0	(0)	X'310'	0	M00M1619	"XMAMFLIF" ++ IXZXIXIF NAME
784	(310)	DBL WORD	8	XMAMFLIF(0)	++ IXZXIXIF PARM LIST
784	(310)	BITSTRING	1	XMAMFLIF_XVERSION	++ INPUT XVERSION
785	(311)	CHARACTER	6	XMAMFLIF_XEYECATCH	++ CONSTANT XEYECATCH
791	(317)	CHARACTER	1	XMAMFLIF_XRSV0001	++ RESERVED XRSV0001
792	(318)	SIGNED	4	XMAMFLIF_XGROUPTOKEN	++ XGROUPTOKEN
796	(31C)	CHARACTER	16	XMAMFLIF_XREQMBOX	++ XREQMBOX
812	(32C)	CHARACTER	8	XMAMFLIF_XREQTOKEN	++ XREQTOKEN
820	(334)	ADDRESS	4	XMAMFLIF_XANSAREA	++ XANSAREA
824	(338)	SIGNED	4	XMAMFLIF_XANSLEN	++ XANSLEN
828	(33C)	BITSTRING	1	XMAMFLIF_XINFOLVL	++ INPUT
		1... ....		XMAMFLIF_XINFOLVL_GROUP	"B'10000000'" ++ XINFOLVL.GROUP KEYWORD
		.1.. ....		XMAMFLIF_XINFOLVL_MEMBER	"B'01000000'" ++ XINFOLVL.MEMBER KEYWORD
829	(33D)	BITSTRING	1	XMAMFLIF_XKEYS	++ FIELD_LABEL
		1... ....		XMAMFLIF_KEYUSED_REQMBOX	"B'10000000'" ++ KEYUSED.REQMBOX KEYWORD
		.1.. ....		XMAMFLIF_KEYUSED_ANSAREA	"B'01000000'" ++ KEYUSED.ANSAREA KEYWORD
		..1. ....		XMAMFLIF_KEYUSED_GROUPTOKEN	"B'00100000'" ++ KEYUSED.GROUPTOKEN KEYWORD
		...1 ....		XMAMFLIF_KEYUSED_GROUPNAME	"B'00010000'" ++ KEYUSED.GROUPNAME KEYWORD
830	(33E)	BITSTRING	1	XMAMFLIF_XSTATE	++ INPUT
		1... ....		XMAMFLIF_XSTATE_ANY	"B'10000000'" ++ XSTATE.ANY KEYWORD
		.1.. ....		XMAMFLIF_XSTATE_ACTIVE	"B'01000000'" ++ XSTATE.ACTIVE KEYWORD
831	(33F)	BITSTRING	1	XMAMFLIF_XSYSTEM	++ INPUT
		1... ....		XMAMFLIF_XSYSTEM_ANY	"B'10000000'" ++ XSYSTEM.ANY KEYWORD



Table 315. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1... ....		XMAMFLIF_XSYSTEM_CURRENT	"B'01000000'" ++ XSYSTEM.CURRENT KEYWORD
832	(340)	BITSTRING	1	XMAMFLIF_XPOLYJES	++ INPUT
		1... ....		XMAMFLIF_XPOLYJES_YES	"B'10000000'" ++ XPOLYJES.YES KEYWORD
		.1... ....		XMAMFLIF_XPOLYJES_NO	"B'01000000'" ++ XPOLYJES.NO KEYWORD
833	(341)	BITSTRING	2	XMAMFLIF_XFUNCTION	++ INPUT
833	(341)	BITSTRING	0	XMAMFLIF_XFUNCTION_ARM	"B'1000000000000000'" ++ XFUNCTION.ARM KEYWORD
835	(343)	CHARACTER	8	XMAMFLIF_XGROUPNAME	++ XGROUPNAME
835	(343)	X'3B'	0	XMAMFLIFL	"*-XMAMFLIF" ++ LENGTH OF PLIST
IXZXIXIF-2					
844	(34C)	SIGNED	4		Reserved for IBM use
848	(350)	DBL WORD	8	(0)	Double word alignment
IXZXIXAC MF=(L, XMAMFLAC) IXZXIXAC list area MACDATE -11/12/03-<1>					
0	(0)	X'350'	0	M00M1620	"XMAMFLAC" ++ IXZXIXAC NAME
848	(350)	DBL WORD	8	XMAMFLAC(0)	++ IXZXIXAC PARM LIST
848	(350)	BITSTRING	1	XMAMFLAC_XVERSION	++ INPUT XVERSION
849	(351)	CHARACTER	6	XMAMFLAC_XEYECATCH	++ CONSTANT XEYECATCH
855	(357)	BITSTRING	1	XMAMFLAC_XSTB	++ INPUT
		1... ....		XMAMFLAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1... ....		XMAMFLAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
856	(358)	BITSTRING	8	XMAMFLAC_XMSGTOKEN	++ XMSGTOKEN
864	(360)	ADDRESS	4	XMAMFLAC_XDATA	++ XDATA
868	(364)	SIGNED	4	XMAMFLAC_XDATALEN	++ XDATALEN
872	(368)	SIGNED	4	XMAMFLAC_XUSERRC	++ XUSERRC
876	(36C)	SIGNED	4	XMAMFLAC_XGROUPTOKEN	++ XGROUPTOKEN
880	(370)	SIGNED	4	XMAMFLAC_XSYSRC	++ XSYSRC
884	(374)	SIGNED	4	XMAMFLAC_XSYSRSN	++ XSYSRSN
888	(378)	BITSTRING	1	XMAMFLAC_XKEYS	++ FIELD_LABEL
		1... ....		XMAMFLAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1... ....		XMAMFLAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1. ....		XMAMFLAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1 ....		XMAMFLAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		XMAMFLAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
889	(379)	BITSTRING	1	XMAMFLAC_XMSGATTR	++ INPUT
		1... ....		XMAMFLAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1... ....		XMAMFLAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
889	(379)	X'2A'	0	XMAMFLACL	"*-XMAMFLAC" ++ LENGTH OF PLIST



Table 315. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
IXZXIXAC-1					
896	(380)	DBL WORD	8	(0)	Double word alignment
IXZXIXRM MF=(L,XMAMFLRM) IXZXIXRM list area MACDATE -93/05/10-<1>					
896	(380)	SIGNED	2	M00M1621(0)	IXZXIXRM-1
896	(380)	DBL WORD	8	XMAMFLRM(0)	++ IXZXIXRM PARM LIST
896	(380)	BITSTRING	1	XMAMFLRM_XVERSION	++ INPUT XVERSION
897	(381)	CHARACTER	6	XMAMFLRM_XKEYECATCH	++ CONSTANT XKEYECATCH
903	(387)	CHARACTER	1	XMAMFLRM_XRSV0001	++ RESERVED XRSV0001
904	(388)	CHARACTER	16	XMAMFLRM_XMBOXNAME	++ XMBOXNAME
920	(398)	ADDRESS	4	XMAMFLRM_XDATA	++ XDATA
924	(39C)	SIGNED	4	XMAMFLRM_XDATALEN	++ XDATALEN
928	(3A0)	BITSTRING	8	XMAMFLRM_XMSGTOKEN	++ XMSGTOKEN
936	(3A8)	SIGNED	4	XMAMFLRM_XGROUPTOKEN	++ XGROUPTOKEN
940	(3AC)	BITSTRING	1	XMAMFLRM_XMSGFETCH	++ INPUT
		1... ..		XMAMFLRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1... ..		XMAMFLRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1. ....		XMAMFLRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1 ....		XMAMFLRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
941	(3AD)	BITSTRING	1	XMAMFLRM_XKEYS	++ FIELD_LABEL
		1... ..		XMAMFLRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
941	(3AD)	X'2E'	0	XMAMFLRML	"*-XMAMFLRM" ++ LENGTH OF PLIST
IXZXIXRM-1					
944	(3B0)	DBL WORD	8	(0)	Double word alignment
IXZXIXCL MF=(L,XMAMFLCL) IXZXIXCL list area MACDATE -11/12/03-<1>					
0	(0)	X'3B0'	0	M00M1622	"XMAMFLCL" ++ IXZXIXCL NAME
944	(3B0)	DBL WORD	8	XMAMFLCL(0)	++ IXZXIXCL PARM LIST
944	(3B0)	BITSTRING	1	XMAMFLCL_XVERSION	++ INPUT XVERSION
945	(3B1)	CHARACTER	6	XMAMFLCL_XKEYECATCH	++ CONSTANT XKEYECATCH
951	(3B7)	CHARACTER	1	XMAMFLCL_XRSV0001	++ RESERVED XRSV0001
952	(3B8)	SIGNED	4	XMAMFLCL_XFAILED SYS	++ XFAILED SYS
956	(3BC)	SIGNED	4	XMAMFLCL_XGROUPTOKEN	++ XGROUPTOKEN
956	(3BC)	X'10'	0	XMAMFLCLL	"*-XMAMFLCL" ++ LENGTH OF PLIST
IXZXIXCL-1					
960	(3C0)	DBL WORD	8	(0)	Double word alignment



Table 315. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
IXZXIXMC MF=(L,XMAMFLMC) IXZXIXMC list area MACDATE -93/05/10-<1>					
960	(3C0)	SIGNED	2	M00M1623(0)	IXZXIXMC-1
960	(3C0)	DBL WORD	8	XMAMFLMC(0)	++ IXZXIXMC PARM LIST
960	(3C0)	BITSTRING	1	XMAMFLMC_XVERSION	++ INPUT XVERSION
961	(3C1)	CHARACTER	6	XMAMFLMC_XEYECATCH	++ CONSTANT XEYECATCH
967	(3C7)	BITSTRING	1	XMAMFLMC_XSTB	++ INPUT
		1... ....		XMAMFLMC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1.. ....		XMAMFLMC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
968	(3C8)	CHARACTER	16	XMAMFLMC_XMBOXNAME	++ XMBOXNAME
984	(3D8)	SIGNED	4	XMAMFLMC_XGROUPTOKEN	++ XGROUPTOKEN
984	(3D8)	X'1C'	0	XMAMFLMCL	"*-XMAMFLMC" ++ LENGTH OF PLIST
IXZXIXMC-1 End of fields used within MVS macros.					
992	(3E0)	DBL WORD	8	(0)	Ensure double word aligned
992	(3E0)	X'3E0'	0	XMALEN	"*-XMA" Size of XMAS DSECT

Table 316. Structure XMAQENT

Offset Dec	Offset Hex	Type	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
The following fields are used to communicate \$ESYS requests to HASPWARM.					
8	(8)	BITSTRING	8	XMAQETIM	Time of event (STCK format)
16	(10)	CHARACTER	8	XMAQESYS	MVS System name.
24	(18)	BITSTRING	4	XMAQESYT	System id / token for MVS
28	(1C)	BITSTRING	1	XMAQEFL1	Member action request
		.... ...1		XMAQE1JR	"B'00000001'" Job restart required-\$ESYS
		.... ...1.		XMAQE1AE	"B'00000010'" AUTOESYS=ON on MASDEF
		.... .1..		XMAQE1VR	"B'00000100'" Verify ARM registrations
29	(1D)	BITSTRING	1		Reserved for future use
30	(1E)	SIGNED	2	XMAQSIZE	Length of XMAQENT
The remaining fields contain member status information.					
32	(20)	DBL WORD	8	XMAQUTIM	Event time causing latest status update (STCK)
40	(28)	DBL WORD	8	XMAQITIM	TOD of last CKPT access for this member
48	(30)	BITSTRING	1	XMAQMEMB	Member number



Table 316. Structure XMAQENT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
<p>XMAQSTAT is the current member status based on QSE and XCF status fields. XMAQSTAT is never set to MEMDORM. MEMDORM must be determined by the user based on the current TOD clock, XMAQITIM and \$SYNCTOL. A member is MEMDORM if XMAQSTAT indicates MEMACTIV, but XMAQITIM is more than \$SYNCTOL seconds ago. Update XCFDSTAT (in HASPXCF) if XMAQSTAT definition changes.</p>					
49	(31)	BITSTRING	1	XMAQSTAT	Current state of member
		1... ....		MEMDOWN	"B'10000000'" DOWN filter
		.1.. ....		MEMDEF	"B'01000000'" DEFINED filter
		..1. ....		MEMINU	"B'00100000'" INUSE filter
		...1 ....		MEMFAIL	"B'00010000'" FAILED filter
		1111 ....		MEMFILTR	"B'11110000'" Filter mask
		.... ...1		MEMUNDEF	"X'01'" Member UNDEFINED
		.... ...1.		MEMUPEND	"X'02'" Member UNDEFINED-PENDING
49	(31)	X'63'	0	MEMACTIV	"MEMDEF+MEMINU+X'03'" Member ACTIVE
49	(31)	X'C4'	0	MEMINACT	"MEMDEF+MEMDOWN+X'04'" Member TERMINATED
49	(31)	X'65'	0	MEMINIT	"MEMDEF+MEMINU+X'05'" Member INITIALIZING
49	(31)	X'66'	0	MEMTERM	"MEMDEF+MEMINU+X'06'" Member TERMINATING
49	(31)	X'D7'	0	MEMJESF	"MEMDEF+MEMDOWN+MEMFAIL+X'07'" Memb JES2-FAILED
49	(31)	X'D8'	0	MEMXCFF	"MEMDEF+MEMDOWN+MEMFAIL+X'08'" Memb JESXCF-FAILED
49	(31)	X'D9'	0	MEMMVSG	"MEMDEF+MEMDOWN+MEMFAIL+X'09'" Memb MVS-GONE
49	(31)	X'6A'	0	MEMDORM	"MEMDEF+MEMINU+X'0A'" Member DORMANT (Never set)
49	(31)	X'CB'	0	MEMDRAIN	"MEMDEF+MEMDOWN+X'0B'" Member DRAINED
49	(31)	X'DC'	0	MEMALICE	"MEMDEF+MEMDOWN+MEMFAIL+X'0C'" Member awaiting ALICE processing
50	(32)	BITSTRING	1	XMAQUFLG	Local copy of XMAUSFLG
51	(33)	BITSTRING	1	XMAUFL1	Local copy of XMAUSFL1
52	(34)	BITSTRING	1	XMAQNEWS	Latest member state
52	(34)	X'1'	0	XMANSACT	"1" Member is active
52	(34)	X'2'	0	XMANSFLD	"2" JESXCF has terminated
52	(34)	X'3'	0	XMANSRON	"3" MVS is no longer active
52	(34)	X'4'	0	XMANSJES	"4" JES2 ABENDED
53	(35)	BITSTRING	1	XMAQCRF1	CKPT reconfiguration status (see XMAUCRF1 for bit definitions)
54	(36)	BITSTRING	1	XMAQJXF1	JESXCF member status
55	(37)	BITSTRING	1	XMAQEFL2	Status flag byte 2
		1... ....		XMAQ2PRS	"B'10000000'" MVS Gone status in XMAQNEWS was inferred and cannot be confirmed
56	(38)	SIGNED	4	XMAQHOLD	Hold value
60	(3C)	SIGNED	4	XMAAHOLD	Actual HOLD value
64	(40)	SIGNED	4	XMAADORM	Actual dormancy value



Table 316. Structure XMAQENT (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
68	(44)	BITSTRING	4	XMAQXSYS	MAS member supports cross system data rttrvl table
72	(48)	CHARACTER	4	XMAQSNAM	Subsystem name. Shadowed from QSESSNAM
76	(4C)	CHARACTER	4	XMAQVSID	MVS System SMF I. D. Shadow of QSEMVSID
80	(50)	BITSTRING	2		Reserved
82	(52)	SIGNED	1	XMAQ2PLV	JES2 Product level. Shadow of QSEJ2PLV
83	(53)	SIGNED	1	XMAQ2SLV	Service level. Shadow of QSEJ2SLV
84	(54)	CHARACTER	8	XMAQ2VRN	Shadow of QSEJ2VRN
92	(5C)	BITSTRING	1	XMAQSTYP	Type of last start Shadowed from QSESTYPE
93	(5D)	BITSTRING	1	XMAQSEST	Shadow of QSESTAT
94	(5E)	BITSTRING	1	XMAQSES2	Shadow of QSESTAT2
95	(5F)	BITSTRING	1	XMAQSTA3	Third status byte
96	(60)	BITSTRING	1		Reserved
97	(61)	SIGNED	1	XMAQ2VR2	JES2 version last active on this member
98	(62)	CHARACTER	1	XMAQCOM	Command Prefix character Shadow of QSECCHAR
99	(63)	BITSTRING	1	XMAQRSID	ID of member doing reset (Shadow of QSERSTID)
100	(64)	SIGNED	4	XMAQMIND	Minimum Dormancy (Shadow of QSEMIND)
104	(68)	SIGNED	4	XMAQMAXD	Maximum Dormancy (Shadow QSEMAXD)
108	(6C)	SIGNED	4	XMAQSYNC	Current SYNC value (Shadow QSESYNC)
112	(70)	SIGNED	4	XMAQSTIM	STCK TOD of last start
116	(74)	CHARACTER	8	XMAQXNOD	Node name when XCF member did JESXCF attach
124	(7C)	SIGNED	4	XMAQSYSL	Current SYSLOG JQE index
XMAQPSEQ is the same format as ECVTPSEQ. Byte one is OS type (00 - OS/390 01-z/OS). Bytes 2-4 are VRM - VVRRMM. So for z/OS 1.13 you get 01010D00.					
128	(80)	SIGNED	4	XMAQPSEQ	z/OS product sequence numb.
132	(84)	CHARACTER	16	XMAQMNAM	XCF member name for normal JESXCF group (\$XCFGPNM)
XMAQTMOF allows to calculate local times for MAS members (shadow of QSEGMTOF). XMAQTMOF - left 4 bytes of TOD format. XMAQTMOF = CVTDLO minus CVTL50 Local time = STCK time plus XMAQTMOF UTC time = STCK time minus CVTL50 Local time = UTC time plus CVTLDTO					
148	(94)	SIGNED	4	XMAQTMOF	Time offset of this member
152	(98)	CHARACTER	4	XMAQEMGN	Emergency subsystem name
156	(9C)	SIGNED	4	(3)	Reserved
156	(9C)	X'A8'	0	XMAQECLR	"*-XMAQENT" Length that can be cleared
168	(A8)	ADDRESS	8	XMAQCDCQ	Pointer to CDCTQS for this member (64-bit address)
176	(B0)	ADDRESS	8	XMAQCNIT	Ptr to NIT array for this member (64- bit addr)



Table 316. Structure XMAQENT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
184	(B8)	SIGNED	4	XMAQCNIA	ALET for NIT array
188	(BC)	BITSTRING	1	XMAQCNIV	NIT data version
189	(BD)	BITSTRING	1	XMAQCNIP	Nr of paths in each NIT entry
190	(BE)	BITSTRING	2		Reserved
192	(C0)	ADDRESS	8		Reserved
200	(C8)	DBL WORD	8	(0)	Insure double word aligned
200	(C8)	X'C8'	0	XMAQELEN	"*-XMAQENT" Length of XMAQENT element

Table 317. Structure XMAXUS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XMAXUS	HASP XCF USER STATE FIELD
0	(0)	BITSTRING	4	XMAJXCF(0)	JESXCF user state information
0	(0)	BITSTRING	1	XMAJXFL1	JESXCF status
		1... ....		XMAATTCH	"B'10000000" JES2 is attached to JESXCF
		.1.. ....		XMAAJES2	"B'01000000" Subsystem is running JES2
		..1. ....		XMAAJES3	"B'00100000" Subsystem is running JES3
		...1 ....		XMAACON	"B'00010000" Subsystem is connected to other members
		.... 1...		XMAAFSS3	"B'00001000" JES3 FSS subsystem
		.... .1..		XMAACONS	"B'00000100" Consoles function active
1	(1)	BITSTRING	1		Release level of the JES
2	(2)	CHARACTER	2	XMASSIN1	First 2 chars of SSNAME
4	(4)	BITSTRING	8	XMACOLDT	Cold start date and time (\$COLDDTM)
12	(C)	BITSTRING	8	XMAPLXID	First system IPLed in this current IPL of the sysplex (SYSPLEXID in the IXCQUERY)
20	(14)	BITSTRING	1	XMAUSFLG	User state flag
		1... ....		XMAUINIT	"B'10000000" JES2 initializing
		.1.. ....		XMAUTERM	"B'01000000" JES2 terminating
		..1. ....		XMAUACTN	"B'00100000" JES2 NPM PCE initialized
		...1 ....		XMAUNUTS	"B'00010000" JES2 NPM PCE in HASPNUTS
		.... 1...		XMAUXCMA	"B'00001000" JES2 XCM PCE initialized
		.... .1..		XMAUCDCA	"B'00000100" JES2 CDC PCE initialized
		.... ..1.		XMAUDLSM	"B'00000010" JES2 DLS PCE on this mbr is MAS master
21	(15)	BITSTRING	1	XMAUSFL1	Member options flag
		1... ....		XMA1AON	"B'10000000" AUTOESYS=ON specified
		.1.. ....		XMA1AOFF	"B'01000000" AUTOESYS=OFF specified
22	(16)	ADDRESS	1	XMAUSMID	Member number (\$SIDBUSY)
23	(17)	BITSTRING	1	XMAUCRF1	CKPT reconfiguration status
		1... ....		XMAUC1RC	"B'10000000" - Reconfiguration capable



Table 317. Structure XMAXUS (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.1... ....		XMAUC1ST	"B'01000000'" - Reconfiguration started
		..1. ....		XMAUC1MD	"B'00100000'" - This member MUST drive
		...1 ....		XMAUC1CO	"B'00010000'" - Reconfig is committed (First driving member committed)
		.... 1...		XMAUC1DR	"B'00001000'" - This member is driver
		.... .1..		XMAUC1DL	"B'00000100'" - This member has detected a delayed XCF msg, ack, or user state update
		.... ..1.		XMAUC1CF	"B'00000010'" - This member is committed to fail
		.... ...1		XMAUC1IO	"B'00000001'" - CKPTn I/O error on member
23	(17)	X'3F'	0	XMAUC1SC	"XMAUC1MD+XMAUC1CO+XMAUC1DR+XMAUC1DL+XMAUC1C F+XMAUC1IO" - Flags to clear when a reconfig starts
23	(17)	X'7F'	0	XMAUC1DC	"XMAUC1SC+XMAUC1ST" - Flags to clear when a reconfig completes
24	(18)	BITSTRING	5	XMAUCRLV	Member's CKPT level number (Low-order 5 bytes)
The last byte of the user state are shared between JES2, JES3, and JESXCF. There offsets must not change.					
29	(1D)	BITSTRING	1	XMAFEAT(0)	Functions that this JES supports
29	(1D)	BITSTRING	1	XMAFEAT1	Feature byte 1
		1... ....		XMAARM	"B'10000000'" This JES supports ARM
30	(1E)	BITSTRING	2	XMAJXC2(0)	JESXCF user state information
30	(1E)	CHARACTER	2	XMASSIN2	Last 2 chars of SSINAME
30	(1E)	X'20'	0	XMAUSED	"*-XMAXUS" Amount of user state in use
32	(20)	ADDRESS	2	(0)	Ensure length
32	(20)	ADDRESS	2	(0)	is 32 bytes
32	(20)	X'20'	0	XMAUSLEN	"*-XMAXUS" LENGTH OF XUS USER STATE

Table 318. Cross Reference for \$XMAS

Name	Offset	Hex Tag
MEMACTIV	31	63
MEMALICE	31	DC
MEMDEF	31	40
MEMDORM	31	6A
MEMDOWN	31	80
MEMDRAIN	31	CB
MEMFAIL	31	10
MEMFILTR	31	F0
MEMINACT	31	C4
MEMINIT	31	65
MEMINU	31	20



Table 318. Cross Reference for \$XMAS (continued)

Name	Offset	Hex Tag
MEMJESF	31	D7
MEMMVSG	31	D9
MEMTERM	31	66
MEMUNDEF	31	1
MEMUPEND	31	2
MEMXCFF	31	D8
M00M1613	0	228
M00M1615	0	250
M00M1616	0	290
M00M1617	2A8	
M00M1618	2D8	
M00M1619	0	310
M00M1620	0	350
M00M1621	380	
M00M1622	0	3B0
M00M1623	3C0	
XMA	0	
XMAACON	0	10
XMAACONS	0	4
XMAADORM	40	
XMAAFSS3	0	8
XMAAHOLD	3C	
XMAAJES2	0	40
XMAAJES3	0	20
XMAARM	1D	80
XMAATTCH	0	80
XMAAXRQ	B0	
XMABLDM	188	C2D3C440
XMABLDML	0	58
XMACDCUP	AC	
XMACOLDT	4	
XMADIAG	17C	
XMAFEAT	1D	
XMAFEAT1	1D	
XMAFLAG1	38	
XMAFLAG2	39	
XMAFLAG3	3B	
XMAFLAG4	3C	
XMAFLAG5	3D	



Table 318. Cross Reference for \$XMAS (continued)

Name	Offset	Hex Tag
XMAFLAG6	3E	
XMAID	0	
XMAIFAA	224	
XMAIFALN	220	
XMAJNNM	180	
XMAJXCF	0	
XMAJXC2	1E	
XMAJXFL1	0	
XMALEN	3E0	3E0
XMAMADDR	84	
XMAMEMAT	A4	
XMAMEMDT	8	
XMAMEMNM	18	
XMAMEMST	200	
XMAMEMUP	A0	
XMAMFLAC	350	
XMAMFLAC_KEYUSED_DATA	378	80
XMAMFLAC_KEYUSED_DATALEN	378	40
XMAMFLAC_KEYUSED_SYSRC	378	10
XMAMFLAC_KEYUSED_SYSRSN	378	8
XMAMFLAC_KEYUSED_USERRC	378	20
XMAMFLAC_XDATA	360	
XMAMFLAC_XDATALEN	364	
XMAMFLAC_XEYECATCH	351	
XMAMFLAC_XGROUPTOKEN	36C	
XMAMFLAC_XKEYS	378	
XMAMFLAC_XMSGATTR	379	
XMAMFLAC_XMSGATTR_EXPRESS	379	40
XMAMFLAC_XMSGATTR_J3CONNECT	379	80
XMAMFLAC_XMSGTOKEN	358	
XMAMFLAC_XSTB	357	
XMAMFLAC_XSTB_NO	357	80
XMAMFLAC_XSTB_YES	357	40
XMAMFLAC_XSYSRC	370	
XMAMFLAC_XSYSRSN	374	
XMAMFLAC_XUSERRC	368	
XMAMFLAC_XVERSION	350	
XMAMFLACL	379	2A
XMAMFLAT	250	



Table 318. Cross Reference for \$XMAS (continued)

Name	Offset	Hex Tag
XMAMFLAT_XDIAG	284	
XMAMFLAT_XEYECATCH	251	
XMAMFLAT_XFLAG1	280	
XMAMFLAT_XFLAG2	281	
XMAMFLAT_XGROUP	258	
XMAMFLAT_XGROUPTOKEN	27C	
XMAMFLAT_XJ3CONNECT_NO	281	80
XMAMFLAT_XJ3CONNECT_YES	281	40
XMAMFLAT_XLINKPARMS	288	
XMAMFLAT_XMAINTLVL	278	
XMAMFLAT_XMEMBER	260	
XMAMFLAT_XRELEASE	270	
XMAMFLAT_XRSV0001	257	
XMAMFLAT_XRSV0002	282	
XMAMFLAT_XVERSION	250	
XMAMFLAT_XWHICHJES_COMMON	280	8
XMAMFLAT_XWHICHJES_INIT	280	10
XMAMFLAT_XWHICHJES_JES2	280	80
XMAMFLAT_XWHICHJES_JES3	280	40
XMAMFLAT_XWHICHJES_J2SP00L	280	2
XMAMFLAT_XWHICHJES_J3CIFSS	280	4
XMAMFLAT_XWHICHJES_J3FSS	280	20
XMAMFLATL	288	40
XMAMFLCL	3B0	
XMAMFLCL_XEYECATCH	3B1	
XMAMFLCL_XFAILED SYS	3B8	
XMAMFLCL_XGROUPTOKEN	3BC	
XMAMFLCL_XRSV0001	3B7	
XMAMFLCL_XVERSION	3B0	
XMAMFLCLL	3BC	10
XMAMFLDT	290	
XMAMFLDT_XEYECATCH	291	
XMAMFLDT_XGROUPTOKEN	298	
XMAMFLDT_XLINKPARMS	29C	
XMAMFLDT_XRSV0001	297	
XMAMFLDT_XVERSION	290	
XMAMFLDTL	29C	14
XMAMFLIF	310	
XMAMFLIF_KEYUSED_ANSAREA	33D	40



Table 318. Cross Reference for \$XMAS (continued)

Name	Offset	Hex Tag
XMAMFLIF_KEYUSED_GROUPNAME	33D	10
XMAMFLIF_KEYUSED_GROUPTOKEN	33D	20
XMAMFLIF_KEYUSED_REQMBOX	33D	80
XMAMFLIF_XANSAREA	334	
XMAMFLIF_XANSLEN	338	
XMAMFLIF_XEYECATCH	311	
XMAMFLIF_XFUNCTION	341	
XMAMFLIF_XFUNCTION_ARM	341	8000
XMAMFLIF_XGROUPNAME	343	
XMAMFLIF_XGROUPTOKEN	318	
XMAMFLIF_XINFOLVL	33C	
XMAMFLIF_XINFOLVL_GROUP	33C	80
XMAMFLIF_XINFOLVL_MEMBER	33C	40
XMAMFLIF_XKEYS	33D	
XMAMFLIF_XPOLYJES	340	
XMAMFLIF_XPOLYJES_NO	340	40
XMAMFLIF_XPOLYJES_YES	340	80
XMAMFLIF_XREQMBOX	31C	
XMAMFLIF_XREQTOKEN	32C	
XMAMFLIF_XRSV0001	317	
XMAMFLIF_XSTATE	33E	
XMAMFLIF_XSTATE_ACTIVE	33E	40
XMAMFLIF_XSTATE_ANY	33E	80
XMAMFLIF_XSYSTEM	33F	
XMAMFLIF_XSYSTEM_ANY	33F	80
XMAMFLIF_XSYSTEM_CURRENT	33F	40
XMAMFLIF_XVERSION	310	
XMAMFLIFL	343	3B
XMAMFLMB	2A8	
XMAMFLMB_XEYECATCH	2A9	
XMAMFLMB_XGROUPTOKEN	2CC	
XMAMFLMB_XMBOXNAME	2B0	
XMAMFLMB_XPOSTALET	2C8	
XMAMFLMB_XPOSTDATA	2C4	
XMAMFLMB_XPOSTXIT	2C0	
XMAMFLMB_XRSV0001	2AF	
XMAMFLMB_XSYSEVENT_NO	2D0	40
XMAMFLMB_XSYSEVENT_YES	2D0	80
XMAMFLMB_XSYSEVENTS	2D0	



Table 318. Cross Reference for \$XMAS (continued)

Name	Offset	Hex Tag
XMAMFLMB_XVERSION	2A8	
XMAMFLMBL	2D0	29
XMAMFLMC	3C0	
XMAMFLMC_XEYECATCH	3C1	
XMAMFLMC_XGROUPTOKEN	3D8	
XMAMFLMC_XMBOXNAME	3C8	
XMAMFLMC_XSTB	3C7	
XMAMFLMC_XSTB_NO	3C7	80
XMAMFLMC_XSTB_YES	3C7	40
XMAMFLMC_XVERSION	3C0	
XMAMFLMCL	3D8	1C
XMAMFLQR	228	
XMAMFLQR_PL_END	240	250
XMAMFLQR_XANSAREA_ADDR	22C	
XMAMFLQR_XANSAREA_ALET	230	
XMAMFLQR_XANSLEN	234	
XMAMFLQR_XCDSTYPE	238	
XMAMFLQR_XCFNAME	238	
XMAMFLQR_XGRPNAME	238	
XMAMFLQR_XMEMNAME	240	
XMAMFLQR_XMEMTOKEN	240	
XMAMFLQR_XQUAALEVEL	22B	
XMAMFLQR_XREQINFO	22A	
XMAMFLQR_XREQINFO_ARMS_ALLDATA	22A	1
XMAMFLQR_XREQINFO_ARMSTATUS	22A	2
XMAMFLQR_XREQINFO_CDS	22A	3F
XMAMFLQR_XREQINFO_CDS_ALLDATA	22A	3E
XMAMFLQR_XREQINFO_CF	22A	20
XMAMFLQR_XREQINFO_CF_ALLDATA	22A	8
XMAMFLQR_XREQINFO_GROUP	22A	80
XMAMFLQR_XREQINFO_STR	22A	10
XMAMFLQR_XREQINFO_STR_ALLDATA	22A	4
XMAMFLQR_XREQINFO_SYSPLEX	22A	40
XMAMFLQR_XREQTYPE	229	
XMAMFLQR_XREQTYPE_DEFER	229	5
XMAMFLQR_XREQTYPE_IMMEDIATE	229	10
XMAMFLQR_XSTRNAME	240	
XMAMFLQR_XVERSION	228	
XMAMFLQRL	250	28



Table 318. Cross Reference for \$XMAS (continued)

Name	Offset	Hex Tag
XMAMFLRM	380	
XMAMFLRM_KEYUSED_MSGFETCH	3AD	80
XMAMFLRM_XDATA	398	
XMAMFLRM_XDATALEN	39C	
XMAMFLRM_XEYECATCH	381	
XMAMFLRM_XGROUPTOKEN	3A8	
XMAMFLRM_XKEYS	3AD	
XMAMFLRM_XMBOXNAME	388	
XMAMFLRM_XMSGFETCH	3AC	
XMAMFLRM_XMSGFETCH_ACKS	3AC	10
XMAMFLRM_XMSGFETCH_ALL	3AC	80
XMAMFLRM_XMSGFETCH_MESSAGES	3AC	40
XMAMFLRM_XMSGFETCH_SYSEVENT	3AC	20
XMAMFLRM_XMSGTOKEN	3A0	
XMAMFLRM_XRSV0001	387	
XMAMFLRM_XVERSION	380	
XMAMFLRML	3AD	2E
XMAMFLUS	2D8	
XMAMFLUS_XEYECATCH	2D9	
XMAMFLUS_XGROUPTOKEN	300	
XMAMFLUS_XRSV0001	2DF	
XMAMFLUS_XUPDTYPE	304	
XMAMFLUS_XUPDTYPE_AND	304	40
XMAMFLUS_XUPDTYPE_OR	304	20
XMAMFLUS_XUPDTYPE_REPLACE	304	80
XMAMFLUS_XUSTATE	2E0	
XMAMFLUS_XVERSION	2D8	
XMAMFLUSL	304	2D
XMAMLEN	88	
XMAMLOCL	3A	1
XMAMODE	3A	
XMAMTOKE	8C	
XMAMTOKN	98	
XMANPMUP	A8	
XMANSACT	34	1
XMANSFLD	34	2
XMANSRON	34	3
XMANSJES	34	4
XMAOTHMN	208	



Table 318. Cross Reference for \$XMAS (continued)

Name	Offset	Hex Tag
XMAOXMAS	204	
XMAPLIWK	218	
XMAPLXID	C	
XMAPLXNM	70	
XMAPTIME	78	
XMAQCDCQ	A8	
XMAQCNIA	B8	
XMAQCNIP	BD	
XMAQCNIT	B0	
XMAQCNIV	BC	
XMAQCOM	62	5B
XMAQCRF1	35	
XMAQDATA	B4	
XMAQECLR	9C	A8
XMAQEFL1	1C	
XMAQEFL2	37	
XMAQELEN	C8	C8
XMAQEMGN	98	
XMAQENT	0	
XMAQESYS	10	
XMAQESYT	18	
XMAQETIM	8	
XMAQE1AE	1C	2
XMAQE1JR	1C	1
XMAQE1VR	1C	4
XMAQHOLD	38	
XMAQITIM	28	
XMAQJXF1	36	
XMAQMAXD	68	
XMAQMEMB	30	
XMAQMIND	64	
XMAQMNAM	84	
XMAQNEWS	34	
XMAQPSEQ	80	
XMAQRSID	63	
XMAQSEST	5D	
XMAQSES2	5E	
XMAQSID	0	
XMAQSIZE	1E	



Table 318. Cross Reference for \$XMAS (continued)

Name	Offset	Hex Tag
XMAQSNAM	48	
XMAQSTAT	31	
XMAQSTA3	5F	
XMAQSTIM	70	
XMAQSTYP	5C	
XMAQSYNC	6C	
XMAQSYSL	7C	
XMAQTM0F	94	
XMAQUFLG	32	
XMAQUFL1	33	
XMAQUTIM	20	
XMAQVSID	4C	
XMAQXNOD	74	
XMAQXSYS	44	
XMAQ2PLV	52	
XMAQ2PRS	37	80
XMAQ2SLV	53	
XMAQ2VRN	54	
XMAQ2VR2	61	
XMARSN	2C	
XMARTN	28	
XMASERV	30	
XMASIDNM	80	
XMASNUM	64	
XMASSIN1	2	
XMASSIN2	1E	
XMASYSNM	68	
XMASYTOK	64	
XMAUACTN	14	20
XMAUCDCA	14	4
XMAUCRF1	17	
XMAUCRLV	18	
XMAUC1CF	17	2
XMAUC1C0	17	10
XMAUC1DC	17	7F
XMAUC1DL	17	4
XMAUC1DR	17	8
XMAUC1IO	17	1
XMAUC1MD	17	20



Table 318. Cross Reference for \$XMAS (continued)

Name	Offset	Hex Tag
XMAUC1RC	17	80
XMAUC1SC	17	3F
XMAUC1ST	17	40
XMAUDLSM	14	2
XMAUINIT	14	80
XMAUNUTS	14	10
XMAUSED	1E	20
XMAUSFLG	14	
XMAUSFL1	15	
XMAUSLEN	20	20
XMAUSMID	16	
XMAUTERM	14	40
XMAUXCMA	14	8
XMAVNUM	4	2
XMAVRALN	5C	60
XMAVRSN	4	
XMAXECB	40	
XMAXUS	0	
XMAXUSST	1E0	
XMA1A0FF	15	40
XMA1A0N	15	80
XMA1AXMA	38	10
XMA1INIT	38	40
XMA1JOIN	38	80
XMA2CDEL	39	40
XMA2FRR	39	80
XMA3INIT	3B	80
XMA3JOIN	3B	8
XMA3LEAV	3B	2
XMA3MEMS	3B	20
XMA3QUER	3B	1
XMA3SYSG	3B	40
XMA3USRS	3B	10
XMA3USTA	3B	4
XMA4DELT	3C	10
XMA4DQ	3C	80
XMA4MAPE	3C	40
XMA4MEMN	3C	4
XMA4MQER	3C	8



Table 318. Cross Reference for \$XMAS (continued)

Name	Offset	Hex Tag
XMA4PURG	3C	20
XMA4XMQU	3C	2
XMA5ESYS	3D	80
XMA6XMAS	3E	80

## \$XPL information

### \$XPL programming interface information

\$XPL is a programming interface.

### \$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 mapping

Table 319. Structure XPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XPL	
0	(0)	CHARACTER	4	XPLID	Eye catcher
4	(4)	ADDRESS	1	XPLLEVEL	Version number for base section
	.... 1			XPLVERN	"X'1" Version 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)
01 NOTES: Do not use the XPLIND, XPLCOND, or XPLRESP fields. Refer to them as XnnnIND, XnnnCOND, or XnnnRESP.					
7	(7)	BITSTRING	1	XPLIND	Indicator byte
8	(8)	BITSTRING	1	XPLCOND	Condition byte
	1... ..			XPLCOB0	"B'10000000" Bit definitions for
	.1.. ..			XPLCOB1	"B'01000000" the condition byte. Each
	..1. ....			XPLCOB2	"B'00100000" specific exit should
	...1 ....			XPLCOB3	"B'00010000" define their own meaning
	.... 1...			XPLCOB4	"B'00001000" to these bits and EQUATE
	.... .1..			XPLCOB5	"B'00000100" them back to these
	.... ..1.			XPLCOB6	"B'00000010" bits.
	.... ...1			XPLCOB7	"B'00000001"
9	(9)	BITSTRING	1	XPLRESP	Response byte (Modifiable by Exit routine)
	1... ..			XPLREB0	"B'10000000" Bit definitions for
	.1.. ..			XPLREB1	"B'01000000" the response byte. Each
	..1. ....			XPLREB2	"B'00100000" specific exit should
	...1 ....			XPLREB3	"B'00010000" define their own meaning
	.... 1...			XPLREB4	"B'00001000" to these bits and EQUATE
	.... .1..			XPLREB5	"B'00000100" them back to these
	.... ..1.			XPLREB6	"B'00000010" bits.
	.... ...1			XPLREB7	"B'00000001"
10	(A)	SIGNED	2	XPLSIZE	Size of parameter list including the base section
12	(C)	SIGNED	4		Reserved
12	(C)	X'10'	0	XPLBLEN	"*-XPL" Length of Base exit parameter list
16	(10)	SIGNED	4	XPLPLUS(0)	Start of parm list contents to the exit
Exit 1 XPL values Print/punch separators					
16	(10)	X'1'	0	X001XID	"1" Exit 1 ID
	.... 1			X001VERN	"X'01" Exit 1 XPL version number



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Indicator byte equates					
16	(10)	X'7'	0	X001IND	"XPLIND" Indicator byte
		1... ....		X001JHDR	"X'80'" Job header call
		.1.. ....		X001JTLR	"X'40'" Job trailer call
		..1. ....		X001JCNT	"X'20'" Job continuation call
Condition byte equates					
16	(10)	X'8'	0	X001COND	"XPLCOND" Condition byte
Response byte equates					
16	(10)	X'9'	0	X001RESP	"XPLRESP" Response byte
16	(10)	X'80'	0	X001DFSP	"XPLREB0" Response bit to surpress the default separator
16	(10)	X'40'	0	X001JNWS	"XPLREB1" Response bit to surpress JESNEWS
16	(10)	X'10'	0	X001PLUS	"XPLPLUS" Exit 1 parameter list
16	(10)	ADDRESS	4	X001DCT	Address of the DCT
20	(14)	ADDRESS	4	X001JCT	Address of the JCT
24	(18)	ADDRESS	4	X001DSCT	Address of DSCT or zeroes
28	(1C)	ADDRESS	4	X001JQE	Address of the JQE
32	(20)	ADDRESS	4	X001JOA	Address of the JOA
36	(24)	SIGNED	4		Reserved for future use
40	(28)	ADDRESS	4	X001PDDB	Address of the first PDDB in the JOE for header call, zero for trailer call
44	(2C)	ADDRESS	4	X001SWBT	Address of the SWBTU pointer list for 1st data set for the current JOE or zero
48	(30)	SIGNED	2	X001NSWB	Number of SWBITs despoiled
50	(32)	SIGNED	2	X001RSVD	Reserved for future use
52	(34)	ADDRESS	4	X001HBUF	Address of a HASP buffer for exit use
52	(34)	X'38'	0	X001SIZE	"*-XPL" Size of XPL for Exit 1
52	(34)	X'20'	0	X001WJOE	"X001JOA" Equate for work JOE.
Exit 2 XPL values JOB JCL statement scan (JES2 main task) The mapping of fields at the start of exits 2, 4, 52 and 54 are the same. Indicator values may vary based on the exit. The mappings of exits 2 and 52 are identical.					
52	(34)	X'2'	0	X002XID	"2" Exit 2 ID
		.... ..11		X002VERN	"X'03'" Exit 2 XPL version number
Indicator byte equates					
52	(34)	X'7'	0	X002IND	"XPLIND" Indicator byte
		.... 1...		X002JOBBC	"X'08'" I.JOB card detected
		.... 1..1		X002JOBG	"X'09'" I.JOBBGROUP card detected
Condition byte equates					



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
52	(34)	X'8'	0	X002COND	"XPLCOND" Condition byte
52	(34)	X'80'	0	X002CONT	"XPLCOB0" I.Card is a continuation
52	(34)	X'10'	0	X002SEC	"XPLCOB3" I.Not first time exit has been passed card
52	(34)	X'8'	0	X002BJQE	"XPLCOB4" I.JQE address in X002JQE is not a real JQE - do not use as input to \$DOGJQE
Response byte equates					
52	(34)	X'9'	0	X002RESP	"XPLRESP" Response byte
52	(34)	X'80'	0	X002XSNC	"XPLREB0" 0.Exit supplied next card
52	(34)	X'40'	0	X002XSEM	"XPLREB1" 0.Exit supplied error msg
52	(34)	X'20'	0	X002JCMT	"XPLREB2" 0.Skip processing card
52	(34)	X'10'	0	X002KILL	"XPLREB3" 0.Kill current job
52	(34)	X'8'	0	X002PURG	"XPLREB4" 0.Purge current job
52	(34)	X'4'	0	X002RLOC	"XPLREB5" 0.Changed/added cards are not to be sent via NJE (set RJCB3LOC in current RJCB)
52	(34)	X'10'	0	X002PLUS	"XPLPLUS" Exit 2 parameter list
16	(10)	ADDRESS	4	X002CARD	I.Address card image
20	(14)	ADDRESS	4	X002FLGX	I.For compatibility, ptr to FLAGX. Exits should use X002IND, X002COND and X002RESP instead.
24	(18)	ADDRESS	4	X002JXWR	I.Pointer to JCTXWRK
28	(1C)	ADDRESS	4	X002JCT	I.Address of JCT
32	(20)	ADDRESS	4	X002JQE	I.Address of JQE
36	(24)	ADDRESS	4	X002AREA	I.Address of JRW
40	(28)	ADDRESS	4	X002STMT	I.Pointer to stmt buffer
44	(2C)	ADDRESS	4	X002STME	I0.Addr 1 byte past end of statement buffer
48	(30)	CHARACTER	8	X002STML	I.Label on statement (JCL)
56	(38)	CHARACTER	8	X002STMV	I.Statement verb
64	(40)	ADDRESS	4	X002RJCP	0.Chain of RJCBs to queue before current statement
68	(44)	ADDRESS	4	X002RJCA	0.Chain of RJCBs to queue after current statement
72	(48)	ADDRESS	4	X002RJCC	0.Chain of RJCBs to queue after current card
76	(4C)	ADDRESS	4	X002RJOB	0.Chain of RJCBs to queue after Job statement, but before first EXEC/INCLUDE
80	(50)	BITSTRING	1	X002FLG1	Statement flag byte
Following bits should be the same as RJCB bits					
	.... 1...			X002LOPR	"B'00001000" I.Last operand is on card
	.... .1..			X002QUOT	"B'00000100" I.Unfinished quote at end of card
	.... ..1.			X002CCMT	"B'00000010" I.Card is a cont comment
	.... ...1			X002LAST	"B'00000001" I.Last card in statement



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Field common to exits 2 and 52					
81	(51)	BITSTRING	1	X002ECLT	I0.Job JECL processing:
		1... ....		X002J2CL	"B'10000000'" Process JES2 JECL
		.1.. ....		X002J3CL	"B'01000000'" Process JES3 JECL
82	(52)	BITSTRING	2		Reserved
End of fields common to exits 2, 4, 52 and 54					
84	(54)	CHARACTER	8	X0020CLS	0.Override job class
92	(5C)	CHARACTER	8	X0020JNM	0.Override job name
Field common to exits 2 and 52					
100	(64)	CHARACTER	32	X002UCOR	I0.User portion of the job correlator
Fields common to exits 2, 4, 52 and 54					
132	(84)	CHARACTER	12	X002ST12	I.Statement verb- length 12
132	(84)	X'90'	0	X002SIZE	"*-XPL" Size of XPL for Exit 2
Exit 3 XPL values JOB statement accounting field scan (main task)					
132	(84)	X'3'	0	X003XID	"3" Exit 3 ID
		.... ..1.		X003VERN	"X'02'" Exit 3 XPL version number
Indicator byte equates					
132	(84)	X'7'	0	X003IND	"XPLIND" Indicator byte
Condition byte equates					
132	(84)	X'8'	0	X003COND	"XPLCOND" Condition byte
Response byte equates					
132	(84)	X'9'	0	X003RESP	"XPLRESP" Response byte
132	(84)	X'80'	0	X003XSEM	"XPLREB0" 0.Exit supplied error msg
132	(84)	X'40'	0	X003SKIP	"XPLREB1" 0.Skip default accounting field scan
132	(84)	X'20'	0	X003KILL	"XPLREB2" 0.Kill current job
132	(84)	X'10'	0	X003PLUS	"XPLPLUS" Exit 3 parameter list
16	(10)	ADDRESS	4	X003ACCT	I.Addr of accounting field
20	(14)	ADDRESS	4	X003FLGX	I.For compatibility, ptr to FLAGX. Exits should use X003IND, X003COND and X003RESP instead.
24	(18)	ADDRESS	4	X003JXWR	I.Pointer to JCTXWRK
28	(1C)	SIGNED	4	X003ACTL	I.Leng of accounting field
32	(20)	ADDRESS	4	X003JCT	I.Address of JCT
36	(24)	ADDRESS	4	X003JQE	I.Address of JQE
40	(28)	ADDRESS	4	X003AREA	I.Address of JRW
44	(2C)	CHARACTER	8	X003JCLS	I0.Current/updated JOBCCLASS
52	(34)	BITSTRING	1	X003ECLT	I0.Job JECL processing:



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1... ..		X003J2CL	"B'10000000'" Process JES2 JECL
		.1.. ..		X003J3CL	"B'01000000'" Process JES3 JECL
53	(35)	BITSTRING	3		Reserved
53	(35)	X'38'	0	X003SIZE	"*-XPL" Size of XPL for Exit 3
Exit 4 XPL values JCL and JES2 control statement scan (main task) The mapping of fields at the start of exits 2, 4, 52 and 54 are the same. Indicator values may vary based on the exit. The mappings of exits 4 and 54 are identical.					
53	(35)	X'4'	0	X004XID	"4" Exit 4 ID
		.... ...1		X004VERN	"X'01'" Exit 4 XPL version number
Indicator byte equates					
53	(35)	X'7'	0	X004IND	"XPLIND" Indicator byte
		.... ..		X004JCL	"X'00'" I.JCL card detected
		.... .1..		X004JECL	"X'04'" I.JECL card detected
Condition byte equates					
53	(35)	X'8'	0	X004COND	"XPLCOND" Condition byte
53	(35)	X'80'	0	X004CONT	"XPLCOB0" I.Card is a continuation
53	(35)	X'40'	0	X004JOBP	"XPLCOB1" I. JOBPARM card detected
53	(35)	X'20'	0	X004CMND	"XPLCOB2" I. \$ command card det
53	(35)	X'10'	0	X004SEC	"XPLCOB3" I.Not first time exit has been passed card
53	(35)	X'1'	0	X004PREJ	"XPLCOB7" I.Card encountered outside a job structure
Response byte equates					
53	(35)	X'9'	0	X004RESP	"XPLRESP" Response byte
53	(35)	X'80'	0	X004XSNC	"XPLREB0" 0.Exit supplied next card
53	(35)	X'40'	0	X004XSEM	"XPLREB1" 0.Exit supplied error msg
53	(35)	X'20'	0	X004JCMT	"XPLREB2" 0.Skip processing card
53	(35)	X'10'	0	X004KILL	"XPLREB3" 0.Kill current job
53	(35)	X'8'	0	X004PURG	"XPLREB4" 0.Purge current job
53	(35)	X'4'	0	X004RLOC	"XPLREB5" 0.Changed/added cards are not to be sent via NJE (set RJC3L0C in current RJC3)
53	(35)	X'10'	0	X004PLUS	"XPLPLUS" Exit 4 parameter list
16	(10)	ADDRESS	4	X004CARD	I.Address card image
20	(14)	ADDRESS	4	X004FLGX	I.For compatibility, ptr to FLAGX. Exits should use X004IND, X004COND and X004RESP instead.
24	(18)	ADDRESS	4	X004JXWR	I.Pointer to JCTXWRK
28	(1C)	ADDRESS	4	X004JCT	I.Address of JCT or zero
32	(20)	ADDRESS	4	X004JQE	I.Address of JQE or zero
36	(24)	ADDRESS	4	X004AREA	I.Address of JRW
40	(28)	ADDRESS	4	X004STMT	I.Pointer to stmt buffer



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
44	(2C)	ADDRESS	4	X004STME	I0.Addr 1 byte past end of statement buffer
48	(30)	CHARACTER	8	X004STML	I.Label on statement (JCL)
56	(38)	CHARACTER	8	X004STMV	I.Statement verb
64	(40)	ADDRESS	4	X004RJCP	O.Chain of RJCBS to queue before current statement
68	(44)	ADDRESS	4	X004RJCA	O.Chain of RJCBS to queue after current statement
72	(48)	ADDRESS	4	X004RJCC	O.Chain of RJCBS to queue after current card
76	(4C)	ADDRESS	4	X004RJOB	O.Chain of RJCBS to queue after Job statement, but before first EXEC/INCLUDE
80	(50)	BITSTRING	1	X004FLG1	Statement flag byte
Following bits should be the same as RJCBS bits					
		.... 1...		X004LOPR	"B'00001000'" I.Last operand is on card
		.... .1..		X004QUOT	"B'00000100'" I.Unfinished quote at end of card
		.... ..1.		X004CCMT	"B'00000010'" I.Card is a cont comment
		.... ...1		X004LAST	"B'00000001'" I.Last card in statement
81	(51)	BITSTRING	3		Reserved
84	(54)	BITSTRING	12	X004ST12	I.Statement verb - length 12
End of fields common to exits 2, 4, 52, and 54					
96	(60)	BITSTRING	48		Reserved
96	(60)	X'90'	0	X004SIZE	"*-XPL" Size of XPL for Exit 4
144	(90)	ADDRESS	2	(0)	Ensure XPL for exits 2
144	(90)	ADDRESS	2	(0)	and 4 are same size
Exit 5 has no XPLs 5 - JES2 command preprocessor Exit 6 XPL values JES2 converter exit (subtask) See exit 60 for USER environment converter exit Note that this maps the same as the exit 59 and 60 XPL					
		.... ...1		X006VERN	"X'01'" Exit 6 XPL version number
144	(90)	X'6'	0	X006XID	"6" Exit 6 id
Indicator byte equates					
144	(90)	X'7'	0	X006IND	"XPLIND" Indicator byte
144	(90)	X'0'	0	X006TEXT	"0" Internal text exit
144	(90)	X'4'	0	X006CEND	"4" End of conversion
Condition byte equates					
144	(90)	X'8'	0	X006COND	"XPLCOND" Condition byte
144	(90)	X'40'	0	X006TSU	"XPLCOB1" TSO user
144	(90)	X'20'	0	X006STC	"XPLCOB2" Started task



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
144	(90)	X'10'	0	X006JOB	"XPLCOB3" Batch job
Response byte equates					
144	(90)	X'9'	0	X006RESP	"XPLRESP" Response byte
144	(90)	X'80'	0	X006HOLD	"XPLREB0" Job should be held
144	(90)	X'10'	0	X006PLUS	"XPLPLUS" Exit 06 parameter list
16	(10)	ADDRESS	4	X006WORK	16 byte work area address
20	(14)	ADDRESS	4	X006ITXT(0)	Internal text image address (X006IND = X006TEXT)
20	(14)	ADDRESS	4	X006CRET	Address of Converter RC (X006IND = X006CEND)
24	(18)	ADDRESS	4	X006CNVW	JES2 DTE work area address
28	(1C)	ADDRESS	4	X006JCT	JCT address
32	(20)	ADDRESS	4	X006CNMB	Address of message buffer
36	(24)	ADDRESS	4	X006CIW	CIWORK data area address
40	(28)	CHARACTER	8	X006JCLS	Current/updated job class
48	(30)	CHARACTER	16	X006SCHE	and scheduling environ
48	(30)	X'40'	0	X006SIZE	"*-XPL" Length of Exit 06 XPL
Exit 7 XPL values Control block I/O (JES2)					
		.... ...1		X007VERN	"X'01'" Exit 07 XPL version number
48	(30)	X'7'	0	X007XID	"7" Exit 07 id
Indicator byte equates					
48	(30)	X'7'	0	X007IND	"XPLIND" Indicator byte equate
Response byte equates					
48	(30)	X'9'	0	X007RESP	"XPLRESP" Response byte equate
48	(30)	X'80'	0	X007IOER	"XPLREB0" Response bit to indicate I/O error
Condition byte equates					
48	(30)	X'8'	0	X007COND	"XPLCOND" Condition byte equate
48	(30)	X'40'	0	X007CBWR	"XPLCOB1" Control block is to be written
48	(30)	X'20'	0	X007CBUN	"XPLCOB2" Unknown control block read
48	(30)	X'10'	0	X007CBIN	"XPLCOB3" Invalid control block read
48	(30)	X'10'	0	X007PLUS	"XPLPLUS" Exit 07 parameter list
16	(10)	CHARACTER	4	X007CBID	Control block ID
Fields common to exits 7 and 51					
20	(14)	BITSTRING	8	X007JBTK	I.Jobtoken value (AIS sym1)
20	(14)	X'1C'	0	X007SIZE	"*-XPL" Length of Exit 07 xpl
Exit 8 XPL values Control block read/write (user, subtask, and FSS)					
		.... ...1		X008VERN	"X'01'" Exit 08 XPL version number



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
20	(14)	X'8'	0	X008XID	"8" Exit 08 id
Indicator byte equates					
20	(14)	X'7'	0	X008IND	"XPLIND" Indicator byte equate
Response byte equates					
20	(14)	X'9'	0	X008RESP	"XPLRESP" Response byte equate
20	(14)	X'80'	0	X008IOER	"XPLREB0" Response bit to indicate I/O error
Condition byte equates					
20	(14)	X'8'	0	X008COND	"XPLCOND" Condition byte equate
20	(14)	X'40'	0	X008CBWR	"XPLCOB1" Control block is to be written
20	(14)	X'20'	0	X008CBUN	"XPLCOB2" Unknown control block read
20	(14)	X'10'	0	X008CBIN	"XPLCOB3" Invalid control block read
20	(14)	X'8'	0	X008FSSM	"XPLCOB4" CBI0 done by FSSM
20	(14)	X'10'	0	X008PLUS	"XPLPLUS" Exit 08 parameter list
16	(10)	CHARACTER	4	X008CBID	Control block ID
16	(10)	X'14'	0	X008SIZE	"*-XPL" Length of Exit 07 xpl
Exit 9 XPL values Output excession options					
		.... ..1.		X009VERN	"X'02'" Exit 9 XPL version number
16	(10)	X'9'	0	X009XID	"9" Exit 9 id
Indicator byte equates					
16	(10)	X'7'	0	X009IND	"XPLIND" Indicator byte
		.... 1...		X009USER	"B'00001000'" Invoked from JES2 address space
		.... .1..		X009CNCL	"B'00000100'" CANCEL on JOB JCL keyword
		.... ..1.		X009DUMP	"B'00000010'" DUMP on JOB JCL keyword
		.... ...1		X009WARN	"B'00000001'" WARNING on JOB JCL keyword
16	(10)	X'F'	0	X009INDX	"X009USER+X009CNCL+X009DUMP+X009WARN" Valid indicator bits
Condition byte equates					
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
Response byte equates					
16	(10)	X'9'	0	X009RESP	"XPLRESP" Response byte



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
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
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.					
16	(10)	X'3'	0	X009RES0	"X009722D+X009722N" Valid options bits
16	(10)	X'10'	0	X009PLUS	"XPLPLUS" Exit 9 parameter list
16	(10)	ADDRESS	4	X009JCT	Address of JCT
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.					
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
Exit 10-14 have no XPLs 10 - \$WTO screen 11 - Spool partitioning allocation (\$TRACK) 12 - Spool partitioning allocation (\$STRAK) 13 - Retired 14 - Job queue work select - \$QGET Exit 15 XPL values Output data set/copy select					
72	(48)	X'F'	0	X015XID	"15" Exit 15 ID
		.... ...1		X015VERN	"X'01'" Exit 15 XPL version number
Indicator byte equates					



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
72	(48)	X'7'	0	X015IND	"XPLIND" Indicator byte equate
		1... ....		X015DSEL	"X'80'" Data set selection call
		.1.. ....		X015DSEP	"X'40'" Separator page call
Condition byte equates					
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
Response byte equates					
72	(48)	X'9'	0	X015RESP	"XPLRESP" Response byte equate
72	(48)	X'80'	0	X015BYPS	"XPLREB0" Response bit to bypass the current PDDB
72	(48)	X'10'	0	X015PLUS	"XPLPLUS" Exit 15 parameter list
16	(10)	ADDRESS	4	X015DCT	Address of the DCT
20	(14)	ADDRESS	4	X015JCT	Address of the JCT
24	(18)	ADDRESS	4	X015DSCT	Address of DSCT or zeroes
28	(1C)	ADDRESS	4	X015JQE	Address of the JQE
32	(20)	ADDRESS	4	X015JOA	Address of the JOA
36	(24)	SIGNED	4		Reserved for future use
40	(28)	ADDRESS	4	X015PDDB	Address of the current PDDB
44	(2C)	ADDRESS	4	X015SWBT	Address of the SWBTU pointer list for 1st data set for the current JOE or zero
48	(30)	SIGNED	2	X015NSWB	Number of SWBITs despoiled
50	(32)	SIGNED	2	X015RSVD	Reserved for future use
52	(34)	ADDRESS	4	X015PRTR	Address of the Print Translate Table
56	(38)	ADDRESS	4	X015CCWT	Address of the CCW Translate Table
60	(3C)	SIGNED	4	X015NCOP	Original number of copies of the data set to be printed
64	(40)	SIGNED	4	X015CPRT	Number of copies currently printed
68	(44)	ADDRESS	4	X015CPGP	Address of the Copy Group
72	(48)	SIGNED	4	X015CGCT	Current Copy Group Count
72	(48)	X'4C'	0	X015SIZE	"*-XPL" Size of XPL for Exit 1
72	(48)	X'20'	0	X015WJOE	"X015JOA" Equate for work JOE.
Exit 16-19 have no XPLs 16 - Notify 17 - BSC RJE SIGNON/SIGNOFF 18 - SNA RJE LOGON/LOGOFF 19 - Initialization statement Exit 20 XPL values End of input					
72	(48)	X'14'	0	X020XID	"20" Exit 20 ID
		.... ..11		X020VERN	"X'03'" Exit 20 XPL version number
Indicator byte equates					



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
72	(48)	X'7'	0	X020IND	"XPLIND" Indicator byte equate
Condition byte equates					
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
Response byte equates					
72	(48)	X'9'	0	X020RESP	"XPLRESP" Response byte equate
72	(48)	X'80'	0	X020NORM	"XPLREB0" Response bit to do normal process
72	(48)	X'40'	0	X020OUTP	"XPLREB1" Response bit to terminate job with output
72	(48)	X'20'	0	X020PURG	"XPLREB2" Response bit to terminate by purge
72	(48)	X'10'	0	X020AVF	"XPLREB3" Response bit to indicate exit's job verify failed
72	(48)	X'10'	0	X020PLUS	"XPLPLUS" Exit 20 parameter list
16	(10)	ADDRESS	4	X020JCT	Address of the JCT
20	(14)	ADDRESS	4	X020JQE	Address of the JQA
24	(18)	ADDRESS	4	X020DCT	Address of the DCT
28	(1C)	ADDRESS	4	X020AREA	Address of JRW
32	(20)	SIGNED	1	X020PRI0	Job priority
33	(21)	BITSTRING	1	X020FLG1	Flags
		1... ....		X0201ARM	"B'10000000" SYSAFF set by MVS ARM
		.1.. ....		X0201IND	"B'01000000" Independent system aff
		..1. ....		X020LOGJ	"B'00100000" Associated job is JOBGROUP logging job
34	(22)	SIGNED	2	X020XNOD	Execution node
36	(24)	BITSTRING	4	X020SAF	Full system affinity mask
40	(28)	CHARACTER	16	X020SENV	SCHENV value
56	(38)	CHARACTER	8	X020JCLS	Job class
64	(40)	BITSTRING	1	X020NEXT	Next job phase
65	(41)	BITSTRING	3		Reserved
68	(44)	CHARACTER	32	X020UCOR	User portion job correlator
100	(64)	ADDRESS	4	(0)	Align to word boundary
100	(64)	X'64'	0	X020SIZE	"*-XPL" Size of XPL for Exit 20
Exit 21 (No XPL for exit) SMF record Exit 22 XPL values Cancel/status					
		.... ...1		X022VERN	"X'01'" Exit 22 XPL version number
100	(64)	X'16'	0	X022XID	"22" Exit 22 id



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Indicator byte equates					
100	(64)	X'7'	0	X022IND	"XPLIND" Indicator byte equate
100	(64)	X'0'	0	X022FRST	"0" First call to exit
100	(64)	X'4'	0	X022MURE	"4" Multiple recall
100	(64)	X'8'	0	X022MUST	"8" Multiple status overflow
Response byte equates					
100	(64)	X'9'	0	X022RESP	"XPLRESP" Response byte equate
100	(64)	X'80'	0	X022IOER	"XPLREB0" Response bit to indicate I/O error
Condition byte equates					
100	(64)	X'8'	0	X022COND	"XPLCOND" Condition Byte
100	(64)	X'10'	0	X022PLUS	"XPLPLUS" Exit 22 parameter list
16	(10)	ADDRESS	4	X022STAC	Address of STAC
20	(14)	SIGNED	4	X022STAA	ALET of STAC
20	(14)	X'18'	0	X022SIZE	"*-XPL" Size of XPL for Exit 20
Exit 23 (No XPL for exit) FSS job separator page (JSPA) processing Exit 24 XPL values Post-initialization					
		.... ...1		X024VERN	"X'01'" Exit 24 XPL version number
20	(14)	X'18'	0	X024XID	"24" Exit 24 id
Indicator Byte Equates					
20	(14)	X'7'	0	X024IND	"XPLIND" Indicator Byte Equate
Condition Byte Equates					
20	(14)	X'8'	0	X024COND	"XPLCOND" Condition Byte - Start Type
20	(14)	X'80'	0	X024WARM	"\$WARM" Single-System Warm Start
20	(14)	X'40'	0	X024HOT	"\$HOT" Hot start
20	(14)	X'20'	0	X024QCK	"\$QUICK" Quick Start
20	(14)	X'10'	0	X024ALLS	"\$CONFIG" All-Systems Warm-Start
20	(14)	X'8'	0	X024ESYS	"\$ESYS" \$E SYS Restart
20	(14)	X'4'	0	X024COLD	"\$COLD" Cold start
20	(14)	X'2'	0	X024IPL	"\$MVS IPL" System was IPLed
20	(14)	X'1'	0	X024COFM	"\$COLD FMT" Cold start with format
20	(14)	X'FF'	0	X024ICLK	"\$INITCHK" Init deck check (all bits off)
Response Byte Equates					
20	(14)	X'9'	0	X024RESP	"XPLRESP" Response Byte
20	(14)	X'80'	0	X024RSSI	"XPLREB0" Exit has built an Information string
20	(14)	X'10'	0	X024PLUS	"XPLPLUS" Exit 24 parameter list
16	(10)	ADDRESS	4	X024SSIA	Address of SSI info area



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
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
Exit 25-30 have no XPLs 25 - JCT read 26 - Termination/resource release 27 - PCE attach/detach 28 - Subsystem interface (SSI) job termination 29 - Subsystem interface (SSI) end-of-memory 30 - Subsystem interface (SSI) data set OPEN/restart Exit 31 XPL values Subsystem interface (SSI) allocation					
		.... ..1		X031VERN	"X'01'" Exit 31 XPL version number
22	(16)	X'1F'	0	X031XID	"31" Exit 31 id
Indicator Byte Equates					
22	(16)	X'7'	0	X031IND	"XPLIND" Indicator Byte Equate
Condition Byte Equates					
22	(16)	X'8'	0	X031COND	"XPLCOND" Condition Byte
22	(16)	X'1'	0	X031ERR	"XPLCOB7" Allocation error
Response Byte Equates					
22	(16)	X'9'	0	X031RESP	"XPLRESP" Response Byte
22	(16)	X'1'	0	X031FAIL	"XPLREB7" Fail allocation request
22	(16)	X'10'	0	X031PLUS	"XPLPLUS" Exit 31 parameter list
16	(10)	BITSTRING	1	X031DSTY	Dataset type
16	(10)	X'0'	0	X031INTR	"0" Internal reader
16	(10)	X'4'	0	X031JSNW	"4" JESNEWS
16	(10)	X'8'	0	X031SYIN	"8" SYSIN
16	(10)	X'C'	0	X031SYSO	"12" SYSOUT
16	(10)	X'10'	0	X031PSPI	"16" PSO or SAPI
16	(10)	X'14'	0	X031SDSB	"20" SPOOL browse
16	(10)	X'18'	0	X031UNK	"24" Unknown
17	(11)	BITSTRING	3		Reserved
20	(14)	ADDRESS	4	X031SDB	Address of SDB/IRWD or zero
24	(18)	ADDRESS	4	X031SJB	Address of SJB or zero
28	(1C)	ADDRESS	4	X031JFCB	Address of JFCB
32	(20)	ADDRESS	4	X031PDDB	Address of PDDB or zero
36	(24)	ADDRESS	4	X031IOT	Address of IOT or zero
36	(24)	X'28'	0	X031SIZE	"*-XPL" Size of XPL for exit 31
Mapping for Exit 32 parameter list					
		.... ..1.		X032VERN	"X'02'" Exit 32 XPL version number
36	(24)	X'20'	0	X032XID	"32" Exit 32 id
7	(7)	BITSTRING	3		Not used
7	(7)	X'10'	0	X032PLUS	"XPLPLUS"



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Indicator Byte Equates					
16	(10)	BITSTRING	1	X032IND	Indicator Byte
16	(10)	X'4'	0	X032IRJI	"4" Request Job ID
16	(10)	X'8'	0	X032IRCL	"8" Request Job by class
16	(10)	X'C'	0	X032ITSU	"12" TSU
16	(10)	X'10'	0	X032ISTC	"16" STC
16	(10)	X'14'	0	X032IWLM	"20" WLM (not demand select)
16	(10)	X'18'	0	X032IWLD	"24" WLM demand select
16	(10)	X'1C'	0	X032ICON	"28" Job within concurrent set
Condition Byte Equates					
17	(11)	BITSTRING	1	X032COND	Condition Byte
17	(11)	X'1'	0	X032CIOE	"XPLC0B7" I/O error during job select (will be terminated or queued)
Response Byte Equates					
18	(12)	BITSTRING	1	X032RESP	Response Byte
EQU B'10000000' Reserved					
18	(12)	X'40'	0	X032RHLD	"XPLREB1" Hold Job (valid only if X032RBEG or X032RVIC on)
18	(12)	X'20'	0	X032RBEG	"XPLREB2" Restart job from first step (valid only if X032RTJB is on)
18	(12)	X'10'	0	X032RVIC	"XPLREB3" Restart job from its eviction point (if any) (valid only if X032RTJB is on)
18	(12)	X'8'	0	X032RTIN	"XPLREB4" Terminate Initiator
18	(12)	X'4'	0	X032RTID	"XPLREB5" Terminate and drain init
18	(12)	X'2'	0	X032RTJB	"XPLREB6" Do not select job
18	(12)	X'1'	0	X032RNMG	"XPLREB7" Suppress job select msg
19	(13)	BITSTRING	1		Reserved
20	(14)	ADDRESS	4	X032SJB	Address of SJB
24	(18)	ADDRESS	4	X032JCT	Address of JCT (or 0)
24	(18)	X'1C'	0	X032SIZE	"*-XPL" Size of parameter list
Exit 33-35 have no XPLs 33 - Subsystem interface (SSI) data set CLOSE 34 - Subsystem interface (SSI) data set unallocation 35 - Subsystem interface (SSI) end-of-task Exit 36 XPL values Pre-security authorization call					
		.... ...1		X036VERN	"X'01" Exit 36 XPL version number
24	(18)	X'24'	0	X036XID	"36" Exit 36 id
Indicator Byte Equates					
24	(18)	X'7'	0	X036IND	"XPLIND" Indicator byte
Condition Byte Equates					
24	(18)	X'8'	0	X036COND	"XPLCOND" Condition byte



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
24	(18)	X'80'	0	X036JES2	"XPLCOB0" JES2 exit caller
24	(18)	X'40'	0	X036USER	"XPLCOB1" User exit caller
Response Byte Equates					
24	(18)	X'9'	0	X036RESP	"XPLRESP" Response byte
24	(18)	X'2'	0	X036NORC	"XPLREB6" Exit-specified return/ reason codes to be used
24	(18)	X'1'	0	X036BYPS	"XPLREB7" Bypass SAF call
24	(18)	X'10'	0	X036PLUS	"XPLPLUS" Exit 36 parameter list
16	(10)	ADDRESS	4	X036PARM	RACROUTE parm list WAVRACRP
20	(14)	ADDRESS	4	X036WAVE	Address of \$WAVE
24	(18)	CHARACTER	4	X036RCBN	Acronym of function related control block
28	(1C)	ADDRESS	4	X036RCBA	Address of function related control block
32	(20)	SIGNED	4	X036RETC	Exit-supplied return code
36	(24)	SIGNED	4	X036RSNC	Exit-supplied reason code
36	(24)	X'28'	0	X036SIZE	"*-XPL" Size of XPL for exit 36
Exit 37 XPL values Post-security authorization call					
		.... ...1		X037VERN	"X'01'" Exit 37 XPL version number
36	(24)	X'25'	0	X037XID	"37" Exit 37 id
Indicator Byte Equates					
36	(24)	X'7'	0	X037IND	"XPLIND" Indicator byte
Condition Byte Equates					
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
Response Byte Equates					
36	(24)	X'9'	0	X037RESP	"XPLRESP" Response byte
36	(24)	X'2'	0	X037NORC	"XPLREB6" Exit-specified return/ reason codes to be used
36	(24)	X'10'	0	X037PLUS	"XPLPLUS" Exit 37 parameter list
16	(10)	ADDRESS	4	X037PARM	RACROUTE parm list WAVRACRP
20	(14)	ADDRESS	4	X037WAVE	Address of \$WAVE
24	(18)	CHARACTER	4	X037RCBN	Acronym of function related control block
28	(1C)	ADDRESS	4	X037RCBA	Address of function related control block
32	(20)	SIGNED	4	X037RETC	Exit-supplied return code
36	(24)	SIGNED	4	X037RSNC	Exit-supplied reason code
36	(24)	X'28'	0	X037SIZE	"*-XPL" Size of XPL for exit 37
Exit 38 XPL values TSO/E receive data set disposition					



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ...1		X038VERN	"X'01'" Exit 38 XPL version number
36	(24)	X'26'	0	X038XID	"38" Exit 38 id
Indicator Byte Equates					
36	(24)	X'7'	0	X038IND	"XPLIND" Indicator byte
Condition Byte Equates					
36	(24)	X'8'	0	X038COND	"XPLCOND" Condition byte
Response Byte Equates					
36	(24)	X'9'	0	X038RESP	"XPLRESP" Response byte
36	(24)	X'80'	0	X038KEEP	"XPLREB0" Keep the JOE
36	(24)	X'10'	0	X038PLUS	"XPLPLUS" Exit 38 parm list additions
16	(10)	ADDRESS	4	X038PS0	Address of PS0
20	(14)	ADDRESS	4	X038JOA	Address of the JOA
20	(14)	X'18'	0	X038SIZE	"*-XPL" Size of XPL for exit 38
20	(14)	X'14'	0	X038JOE	"X038JOA" Equate for work JOE.
Exit 39 XPL values BSC and SNA NJE SYSOUT reception can never receive					
		.... ...1		X039VERN	"X'01'" Exit 39 XPL version number
20	(14)	X'27'	0	X039XID	"39" Exit 39 id
Indicator Byte Equates					
20	(14)	X'7'	0	X039IND	"XPLIND" Indicator byte
Condition Byte Equates					
20	(14)	X'8'	0	X039COND	"XPLCOND" Condition byte
Response Byte Equates					
20	(14)	X'9'	0	X039RESP	"XPLRESP" Response byte
20	(14)	X'80'	0	X039RECV	"XPLREB0" Allow data set receive
20	(14)	X'10'	0	X039PLUS	"XPLPLUS" Exit 39 parm list additions
16	(10)	ADDRESS	4	X039PDDB	PDDB address
20	(14)	ADDRESS	4	X039JCT	JCT address
24	(18)	ADDRESS	4	X039NDH	Data set header address
28	(1C)	ADDRESS	4	X039AREA	SRW address
28	(1C)	X'20'	0	X039SIZE	"*-XPL" Length of Exit 39 parm list
Exit 40 XPL values Modifying SYSOUT characteristics					
		.... ...1		X040VERN	"X'01'" Exit 40 XPL version number
28	(1C)	X'28'	0	X040XID	"40" Exit 40 id
Indicator Byte Equates					
28	(1C)	X'7'	0	X040IND	"XPLIND" Indicator byte



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ....		X040SPIN	"X'80'" This is a spin data set
		.1.. ....		X040NSPN	"X'40'" This is a non-spin data set
		..1. ....		X040UNSP	"X'20'" This is an unspun data set
Condition Byte Equates					
28	(1C)	X'8'	0	X040COND	"XPLCOND" Condition byte equate
Response Byte Equates					
28	(1C)	X'9'	0	X040RESP	"XPLRESP" Response byte
28	(1C)	X'80'	0	X040RFNT	"XPLREB0" Force mail message regardless of NJEDEF MAILMSG= value
28	(1C)	X'40'	0	X040RNNT	"XPLREB1" Suppress mail message regardless of NJEDEF MAILMSG= value
28	(1C)	X'10'	0	X040PLUS	"XPLPLUS" Exit 40 parameter list
16	(10)	ADDRESS	4	X040PDDB	Address of PDDB
20	(14)	ADDRESS	4	X040JQE	Address of JQE
24	(18)	ADDRESS	4	X040JCT	Address of JCT
28	(1C)	ADDRESS	4	X040DSCT	Address of DSCT
32	(20)	CHARACTER	20	X040VTXT	Variable text for \$HASP548
32	(20)	X'34'	0	X040SIZE	"*-XPL" Length of Exit 40 xpl
Exit 41 XPL values Modifying output grouping key selection					
		.... ...1		X041VERN	"X'01'" Exit 41 XPL version number
32	(20)	X'29'	0	X041XID	"41" Exit 41 id
Indicator Byte Equates					
32	(20)	X'7'	0	X041IND	"XPLIND" Indicator byte
Condition Byte Equates					
32	(20)	X'8'	0	X041COND	"XPLCOND" Condition byte
Response byte equates					
32	(20)	X'9'	0	X041RESP	"XPLRESP" Response byte
32	(20)	X'10'	0	X041PLUS	"XPLPLUS" Exit 41 parameter list
16	(10)	ADDRESS	4	X041GGKT	Address of grouping keys table (mapped by the SJTRKEYL DSECT in the IEFSJTRP macro)
20	(14)	SIGNED	2	X041DEFN	Number of defined entries
22	(16)	SIGNED	2	X041TOTN	Total number of entries (including reserved entries)
22	(16)	X'18'	0	X041RSVN	"24" Number of entries reserved for additional keys
24	(18)	CHARACTER	8	X041JDVT	JDVT name
24	(18)	X'20'	0	X041SIZE	"*-XPL" Size of XPL for exit 41
Exit 42 XPL values Modifying a notify user message					
		.... ..1.		X042VERN	"X'02'" Exit 42 XPL version number



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
24	(18)	X'2A'	0	X042XID	"42" Exit 42 id
Indicator Byte Equates					
24	(18)	X'7'	0	X042IND	"XPLIND" Indicator byte
		1... ....		X042UNTK	"B'10000000" User token ignored for unauthorized caller
Condition Byte Equates					
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
EQU XPLCOB7 Obsolete (z9) Response Byte Equates					
24	(18)	X'9'	0	X042RESP	"XPLRESP" Response byte
24	(18)	X'80'	0	X042CANC	"XPLREB0" Send/Cancel indicator
24	(18)	X'40'	0	X042SETR	"XPLREB1" Exit specified reason/RC
24	(18)	X'20'	0	X042NOCH	"XPLREB2" Node has been changed
24	(18)	X'10'	0	X042RMCH	"XPLREB3" Remote has been changed
24	(18)	X'8'	0	X042USCH	"XPLREB4" USERID has been changed
24	(18)	X'4'	0	X042MSGC	"XPLREB5" Msg text has been changed
24	(18)	X'2'	0	X042MEMC	"XPLREB6" Member has been changed
24	(18)	X'1'	0	X042MAIN	"XPLREB7" Queue CMB to main task
24	(18)	X'10'	0	X042PLUS	"XPLPLUS" Exit 42 parameter list
Note that the IAZSSNU storage is in the SSI caller's key. To access the storage, key instructions (e.g. MVCK, MVCDK, etc.) should be used with the SSI caller's key provided in X042CKEY when accessing data in the IAZSSNU.					
16	(10)	ADDRESS	4	X042SNUA	Address of SS0B ext SSNU
20	(14)	SIGNED	2	X042NEWN	Current/updated binary node
22	(16)	SIGNED	2	X042NEWR	Current/updated binary remote
24	(18)	SIGNED	2	X042NWML	Current/updated message length
26	(1A)	SIGNED	2	X042REAS	Exit specified reason code
28	(1C)	SIGNED	4	X042RC	Exit specified return code
32	(20)	CHARACTER	8	X042NEWU	Current/updated userid
40	(28)	ADDRESS	4	X042NEWM	Pointer to current/updated message
44	(2C)	BITSTRING	1	X042CKEY	SSI caller's key
45	(2D)	SIGNED	1	X042MEMB	Current/updated member number
46	(2E)	BITSTRING	2		Reserved
46	(2E)	X'30'	0	X042SIZE	"*-XPL" Length of Exit 42 xpl



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Exit 43 XPL values APPC/MVS TP selection/change/termination					
		.... ...1		X043VERN	"X'01'" Exit 43 XPL version number
46	(2E)	X'2B'	0	X043XID	"43" Exit 43 id
Indicator Byte Equates					
46	(2E)	X'7'	0	X043IND	"XPLIND" Indicator byte in parmlist
		1... ....		X043TPS	"X'80'" This is Transaction Select
		.1.. ....		X043TPT	"X'40'" This is Trans Terminate
		..1. ....		X043CHG	"X'20'" This is Transaction Change
Condition Byte Equates					
46	(2E)	X'8'	0	X043COND	"XPLCOND" Condition byte
Response Byte Equates					
46	(2E)	X'9'	0	X043RESP	"XPLRESP" Response byte
46	(2E)	X'10'	0	X043PLUS	"XPLPLUS" Exit 43 parameter list
16	(10)	ADDRESS	4	X043SJB	Address of SJB
20	(14)	ADDRESS	4	X043JCT	Address of JCT
20	(14)	X'18'	0	X043SIZE	"*-XPL" Length of Exit 43 XPL
Exit 44 XPL values JES2 converter exit (JES2 main task)					
		.... ...11		X044VERN	"X'03'" Exit 44 XPL version number
20	(14)	X'2C'	0	X044XID	"44" Exit 44 id
Indicator byte equates					
20	(14)	X'7'	0	X044IND	"XPLIND" Indicator byte in parmlist
20	(14)	X'0'	0	X044JCLO	"0" JCL Converted without error
20	(14)	X'4'	0	X044JCLE	"4" JCL error detected by converter
20	(14)	X'8'	0	X044CPER	"8" System error encountered during conversion - see condition byte for additional information
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.					
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



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
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.					
20	(14)	X'9'	0	X044RESP	"XPLRESP" Response byte
20	(14)	X'80'	0	X044OUTQ	"XPLREB0" Queue job for output
20	(14)	X'40'	0	X044PURQ	"XPLREB1" Queue job for purge
20	(14)	X'20'	0	X044CNVQ	"XPLREB2" Re-queue job for conversion
20	(14)	X'10'	0	X044PLUS	"XPLPLUS" Exit 44 parameter list
16	(10)	ADDRESS	4	X044JCT	Address of the JCT
20	(14)	ADDRESS	4	X044JQE	Address of the JQE
24	(18)	CHARACTER	8	X044JCLS	Current/updated job class
32	(20)	CHARACTER	16	X044SCHE	and scheduling environ
32	(20)	X'30'	0	X044SIZE	"*-XPL" Size of XPL for Exit 44
Exit 45 XPL values Pre-SJF service request					
		.... ..1.		X045VERN	"X'02'" Exit 45 XPL version number
32	(20)	X'2D'	0	X045XID	"45" Exit 45 id
Indicator byte equates					
32	(20)	X'7'	0	X045IND	"XPLIND" Indicator byte
Condition byte equates					
32	(20)	X'8'	0	X045COND	"XPLCOND" Condition byte These bit definitions reflect the error flags of \$SFSWORK and should maintain the same order as defined.
32	(20)	X'80'	0	X045PCED	"XPLCOB0" Service PCE disabled
32	(20)	X'40'	0	X045JESD	"XPLCOB1" JES2 Main Task is down
32	(20)	X'20'	0	X045NOXT	"XPLCOB2" No extension exists
32	(20)	X'10'	0	X045EXTE	"XPLCOB3" Extension Error
32	(20)	X'8'	0	X045NOAU	"XPLCOB4" Token Extract error
32	(20)	X'4'	0	X045INVF	"XPLCOB5" Function not supported
32	(20)	X'2'	0	X045INVI	"XPLCOB6" Incorrect input to function
Response byte equates					
32	(20)	X'9'	0	X045RESP	"XPLRESP" Response byte
32	(20)	X'80'	0	X045CANC	"XPLREB0" Send/Cancel indicator
32	(20)	X'40'	0	X045SETR	"XPLREB1" Exit specified reason/RC
32	(20)	X'10'	0	X045PLUS	"XPLPLUS" Exit 45 parameter list
Note that the IAZSSSF storage is in the SSI caller's key. To access the storage, key instructions (e.g. MVCK, MVCDK, etc.) should be used with the SSI caller's key provided in X045CKEY when accessing data in the IAZSSSF. Many IAZSSSF fields have been copied to X045xxxxx fields located here, which don't require keyed instructions.					



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
16	(10)	ADDRESS	4	X045SSFA	Address of SS0B ext IAZSSSF
20	(14)	ADDRESS	4	X045SFRB	Address of SFRB
24	(18)	SIGNED	2	X045RSVD	Reserved
26	(1A)	SIGNED	2	X045REAS	Exit specified reason code
28	(1C)	SIGNED	4	X045RC	Exit specified return code
32	(20)	BITSTRING	1	X045CKEY	SSI caller's key
X045FLG1 flag bit definitions must correspond to the ones in SSSFFLG1 (IAZSSSF) and in SFRFFLG (\$SFRB).					
33	(21)	BITSTRING	1	X045FLG1	SSSFFLG1
		1... ....		X045DEST	"B'10000000'" DEST authorization check
		.1.. ....		X045SECL	"B'01000000'" Seclabel dominance check
		..1. ....		X045JSSP	"B'00100000'" JESPOOL check (default)
34	(22)	BITSTRING	2		Reserved
36	(24)	CHARACTER	8	X045JBNM	JOBNAME
44	(2C)	CHARACTER	8	X045JBID	JOBID
52	(34)	CHARACTER	8	X045GRPN	Output group name
60	(3C)	SIGNED	2	X045GRP1	Output group - first ID
62	(3E)	SIGNED	2	X045GRP2	Output group - second ID
64	(40)	CHARACTER	8	X045CART	CART for WTO responses
72	(48)	SIGNED	4	X045CNID	Console ID for WTO response
76	(4C)	ADDRESS	4	X045MDAD	Addr of output descriptor modify list in SWBTU format
80	(50)	ADDRESS	4	X045ERAD	Addr of output descriptor erase list in TU format
84	(54)	SIGNED	2	X045MDLN	Len of Modify list (SWBTU)
86	(56)	SIGNED	2	X045ERLN	Len of Erase list (TU)
86	(56)	X'58'	0	X045SIZE	"*-XPL" Length of Exit 45 xpl
Exit 46 XPL values NJE BSC or SNA header transmit					
		.... ..1.		X046VERN	"X'02'" Exit 46 XPL version number
86	(56)	X'2E'	0	X046XID	"46" Exit 46 id
Indicator byte equates					
86	(56)	X'7'	0	X046IND	"XPLIND" Indicator byte
		1... ....		X046HDR	"B'10000000'" Job Header call
		.1.. ....		X046TRL	"B'01000000'" Job Trailer call
		..1. ....		X046DSH	"B'00100000'" Data Set Header call
		...1 ....		X046RCCS	"B'00010000'" RCCS Data Set Header call
Condition byte equates					
86	(56)	X'8'	0	X046COND	"XPLCOND" Condition byte
86	(56)	X'80'	0	X046R1ST	"XPLCOB0" This RCCS header precedes the first data record



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Response byte equates					
86	(56)	X'9'	0	X046RESP	"XPLRESP" Response byte
86	(56)	X'80'	0	X046TERM	"XPLREB0" Terminate this transmission
86	(56)	X'40'	0	X046BYP	"XPLREB1" Bypass sending Hdr/Trlr
		..11 1111		X046INV	"B'00111111" Invalid response bit map
86	(56)	X'10'	0	X046PLUS	"XPLPLUS" Exit 46 parameter list
16	(10)	ADDRESS	4	X046HADR	Address of Header/Trailer
20	(14)	ADDRESS	4	X046DCT	Address of DCT
24	(18)	ADDRESS	4	X046JQE	Address of JQE
28	(1C)	ADDRESS	4	X046JCT	Address of JCT
32	(20)	ADDRESS	4	X046PDDB	Address of PDDB (SYSOUT)
36	(24)	ADDRESS	4	X046JOA	Address of JOA (SYSOUT)
40	(28)	ADDRESS	4	X046AREA	Address of NJEWORK area
40	(28)	X'2C'	0	X046SIZE	"*-XPL" Length of Exit 46 XPL
40	(28)	X'24'	0	X046JOE	"X046JOA" Equate for work JOE.
Exit 47 XPL values NJE BSC or SNA header receive					
		.... ..1.		X047VERN	"X'02'" Exit 47 XPL version number
40	(28)	X'2F'	0	X047XID	"47" Exit 47 id
Indicator byte equates					
40	(28)	X'7'	0	X047IND	"XPLIND" Indicator byte
		1... ....		X047HDR	"B'10000000" Job Header call
		.1.. ....		X047TRL	"B'01000000" Job Trailer call
		..1. ....		X047DSH	"B'00100000" Data Set Header call
		...1 ....		X047RCCS	"B'00010000" RCCS Data Set Header call
		.... 1...		X047BJQE	"B'00001000" JQE address in X047JQE is not a real JQE; don't use as input to \$D0GJQE
Condition byte equates					
40	(28)	X'8'	0	X047COND	"XPLCOND" Condition byte
Response byte equates					
40	(28)	X'9'	0	X047RESP	"XPLRESP" Response byte
40	(28)	X'80'	0	X047TERM	"XPLREB0" Terminate this reception
		.111 1111		X047INV	"B'01111111" Invalid response bit map
40	(28)	X'10'	0	X047PLUS	"XPLPLUS" Exit 47 parameter list
16	(10)	ADDRESS	4	X047HADR	Address of Header/Trailer
20	(14)	ADDRESS	4	X047JCT	Address of JCT
24	(18)	ADDRESS	4	X047JQE	Address of JQE; see description of related bit X047BJQE in flag X047IND
28	(1C)	ADDRESS	4	X047DCT	Address of DCT



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
32	(20)	ADDRESS	4	X047PDDB	Address of PDDB slot
36	(24)	ADDRESS	4	X047AREA	Address of NJEWORK area
36	(24)	X'28'	0	X047SIZE	"*-XPL" Length of Exit 47 XPL
Exit 48 (No XPL for exit) SSI SYSOUT data set unallocation (unauthorized) Exit 49 XPL values Job queue work select - QGOT					
		.... ...1		X049VERN	"X'01'" Exit 49 XPL version number
36	(24)	X'31'	0	X049XID	"49" Exit 49 id
Indicator byte equates					
36	(24)	X'7'	0	X049IND	"XPLIND" Indicator byte
36	(24)	X'0'	0	X049NORM	"0" Normal job selection
36	(24)	X'4'	0	X049SJOB	"4" \$S job command issued
36	(24)	X'8'	0	X049SJSE	"8" \$S job selection
Condition byte equates					
36	(24)	X'8'	0	X049COND	"XPLCOND" Condition byte
Response byte equates					
36	(24)	X'9'	0	X049RESP	"XPLRESP" Response byte
36	(24)	X'80'	0	X049SKIP	"XPLREB0" Skip this JQE
36	(24)	X'40'	0	X049NOPT	"XPLREB1" Disallow initiator job selection optimization
36	(24)	X'20'	0	X049NDUP	"XPLREB2" Bypass duplicate job name check for this job
36	(24)	X'1F'	0	X049INV	"FF-X049SKIP-X049NOPT-X049NDUP" Invalid response bit map
36	(24)	X'10'	0	X049PLUS	"XPLPLUS" Exit 49 parameter list
16	(10)	ADDRESS	4	X049JQE	Address of JQE
20	(14)	ADDRESS	4	X049QGT	Address of \$QGET parmlist (zero if \$S job)
20	(14)	X'18'	0	X049SIZE	"*-XPL" Length of Exit 49 XPL
Exit 50 XPL values End of input (User env) The mappings of exits 20 and 50 are identical.					
20	(14)	X'32'	0	X050XID	"50" Exit 50 ID
		.... ...1.		X050VERN	"X'02'" Exit 50 XPL version number
Indicator byte equates					
20	(14)	X'7'	0	X050IND	"XPLIND" Indicator byte equate
Condition byte equates					
20	(14)	X'8'	0	X050COND	"XPLCOND" Condition byte
20	(14)	X'80'	0	X050GJOB	"XPLCOB0" Condition bit that specifies a normal job
20	(14)	X'40'	0	X050JECL	"XPLCOB1" Condition bit specifies JECL error



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
20	(14)	X'20'	0	X050BSAF	"XPLCOB2" Condition bit specifies SAF failure
20	(14)	X'10'	0	X050WSEL	"XPLCOB3" Condition bit specifies work selection mismatch
Response byte equates					
20	(14)	X'9'	0	X050RESP	"XPLRESP" Response byte equate
20	(14)	X'80'	0	X050NORM	"XPLREB0" Response bit to do normal process
20	(14)	X'40'	0	X050OUTP	"XPLREB1" Response bit to terminate job with output
20	(14)	X'20'	0	X050PURG	"XPLREB2" Response bit to terminate by purge
20	(14)	X'10'	0	X050AVF	"XPLREB3" Response bit to indicate exit's job verify failed
20	(14)	X'10'	0	X050PLUS	"XPLPLUS" Exit 50 parameter list
16	(10)	ADDRESS	4	X050JCT	Address of the JCT
20	(14)	ADDRESS	4	X050JQE	Address of the JQA
24	(18)	ADDRESS	4	X050DCT	Always zero
28	(1C)	ADDRESS	4	X050AREA	Address of JRW
32	(20)	SIGNED	1	X050PRIO	Job priority
33	(21)	BITSTRING	1	X050FLG1	Flags
		1... ....		X0501ARM	"B'10000000" SYSAFF set by MVS ARM
		.1.. ....		X0501IND	"B'01000000" Independent system aff
34	(22)	SIGNED	2	X050XNOD	Execution node
36	(24)	BITSTRING	4	X050SAF	Full system affinity mask
40	(28)	CHARACTER	16	X050SENV	SCHENV value
56	(38)	CHARACTER	8	X050JCLS	Job class
64	(40)	BITSTRING	1	X050NEXT	Next job phase
65	(41)	BITSTRING	3		Reserved
68	(44)	CHARACTER	32	X050UCOR	User portion job correlator
100	(64)	ADDRESS	4	(0)	Align to word boundary
100	(64)	X'64'	0	X050SIZE	"*-XPL" Size of XPL for Exit 50
100	(64)	ADDRESS	2	(0)	Ensure XPL for exits 20
100	(64)	ADDRESS	2	(0)	and 50 are same size
Exit 51 XPL values Job phase change exit (\$QMOD)					
100	(64)	X'33'	0	X051XID	"51" Exit 51 ID
		.... ...1		X051VERN	"X'01'" Exit 51 XPL version number
Indicator byte equates					
100	(64)	X'7'	0	X051IND	"XPLIND" Indicator byte
Condition byte equates					
100	(64)	X'8'	0	X051COND	"XPLCOND" Condition byte
100	(64)	X'80'	0	X051RBLD	"XPLCOB0" I.Job is on the re-build que and will be purged when no longer busy



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
100	(64)	X'40'	0	X051NOCH	"XPLC0B1" I.Phase change is not allowed (X051RXEQ and X051RQUE ignored)
Response byte equates					
100	(64)	X'9'	0	X051RESP	"XPLRESP" Response byte
100	(64)	X'80'	0	X051RXEQ	"XPLREB0" IO.Job is being/should be requested for execution (only valid if X0510LDQ is X051QXEQ)
To change the next phase of the job, set X051RQUE on and set the next phase in X051NEWQ. You cannot change phase if X051NOCH is on. The new phase must be a later phase than the current phase (X0510LDQ).					
100	(64)	X'40'	0	X051RQUE	"XPLREB1" 0.X051NEWQ has been updated with new phase (X051NEWQ no longer matches X051NEWQ)
100	(64)	X'10'	0	X051PLUS	"XPLPLUS" Area 51 parameter list
16	(10)	ADDRESS	4	X051JQA	I.Address of JQA
Note, the JCT, if passed, will not be written after this call. If updated, the exit must write the JCT and wait for the I/O to complete.					
20	(14)	ADDRESS	4	X051JCT	I.Address of JCT (or zero)
24	(18)	BITSTRING	1	X0510LDQ	I.Current queue job is in
25	(19)	BITSTRING	1	X0510LDT	I.Current JQE type
26	(1A)	BITSTRING	1	X051NEWQ	IO.New que job is moving to
27	(1B)	BITSTRING	1	X051NEWT	I.Proposed new JQE type
X051JOBC, X051SENV, X051SAF, X0511IND are only meaningful if NEWQ is X051QCNV, X051QSET, X051QXEQ					
28	(1C)	CHARACTER	8	X051JOBC	IO.JOB class of the job
36	(24)	CHARACTER	16	X051SENV	IO.SCHENV value
52	(34)	BITSTRING	4	X051SAF	IO.Full sysaff mask
56	(38)	BITSTRING	1	X051FLG1	Flags
		.1.. ....		X0511IND	"B'01000000'" IO.Independent system aff
57	(39)	BITSTRING	3		UF0.Reserved
Queue values for X0510LDQ and X051NEWQ (not same as JQETYPE field in JQE).					
57	(39)	X'1'	0	X051QINP	"1" Input queue
57	(39)	X'2'	0	X051QCNV	"2" Conversion queue
57	(39)	X'3'	0	X051QSET	"3" Setup queue
57	(39)	X'4'	0	X051QXEQ	"4" Execution queue
57	(39)	X'5'	0	X051QSPN	"5" Spin queue
57	(39)	X'6'	0	X051QXMT	"6" XMIT queue
57	(39)	X'7'	0	X051QRCV	"7" Receive queue
57	(39)	X'8'	0	X051QOUT	"8" Output queue
57	(39)	X'9'	0	X051QHRD	"9" Hardcopy queue
57	(39)	X'A'	0	X051QPUR	"10" Purge queue



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
57	(39)	X'A'	0	X051QNUM	"10" Total number of queues
Fields common to exits 7 and 51					
60	(3C)	BITSTRING	8	X051JBTK	I.Jobtoken value (AIS sym1)
60	(3C)	X'44'	0	X051SIZE	"*-XPL" Size of XPL for Exit 51
Exit 52 XPL values JOB JCL statement scan (User env) The mapping of fields at the start of exits 2, 4, 52 and 54 are the same. Indicator values may vary based on the exit. The mappings of exits 2 and 52 are identical.					
60	(3C)	X'34'	0	X052XID	"52" Exit 52 ID
		.... ..11		X052VERN	"X'03'" Exit 52 XPL version number
Indicator byte equates					
60	(3C)	X'7'	0	X052IND	"XPLIND" Indicator byte
60	(3C)	X'8'	0	X052JOBBC	"X002JOBBC" I.JOB card detected
60	(3C)	X'9'	0	X052JOBG	"X002JOBG" I.JOBGROUP card detected
Condition byte equates					
60	(3C)	X'8'	0	X052COND	"XPLCOND" Condition byte
60	(3C)	X'80'	0	X052CONT	"X002CONT" I.Card is a continuation
60	(3C)	X'10'	0	X052SEC	"X002SEC" I.Not first time exit has been passed card
60	(3C)	X'8'	0	X052BJQE	"X002BJQE" I.JQE address in X052JQE is not a real JQE - do not use as input to \$D0GJQE
Response byte equates					
60	(3C)	X'9'	0	X052RESP	"XPLRESP" Response byte
60	(3C)	X'80'	0	X052XSNC	"X002XSNC" 0.Exit supplied next card
60	(3C)	X'40'	0	X052XSEM	"X002XSEM" 0.Exit supplied error msg
60	(3C)	X'20'	0	X052JCMT	"X002JCMT" 0.Skip processing card
60	(3C)	X'10'	0	X052KILL	"X002KILL" 0.Kill current job
60	(3C)	X'8'	0	X052PURG	"X002PURG" 0.Purge current job
60	(3C)	X'4'	0	X052RLOC	"X002RLOC" 0.Changed/added cards are not to be sent via NJE (set RJCB3LOC in current RJCB)
60	(3C)	X'10'	0	X052PLUS	"XPLPLUS" Exit 52 parameter list
16	(10)	ADDRESS	4	X052CARD	I.Address card image
20	(14)	ADDRESS	4	X052FLGX	I.For compatibility, ptr to FLAGX. Exits should use X052IND, X052COND and X052RESP instead.
24	(18)	ADDRESS	4	X052JXWR	I.Pointer to JCTXWRK
28	(1C)	ADDRESS	4	X052JCT	I.Address of JCT
32	(20)	ADDRESS	4	X052JQE	I.Address of JQE
36	(24)	ADDRESS	4	X052AREA	I.Address of JRW
40	(28)	ADDRESS	4	X052STMT	I.Pointer to stmt buffer
44	(2C)	ADDRESS	4	X052STME	I0.Addr 1 byte past end of statement buffer



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
48	(30)	CHARACTER	8	X052STML	I.Label on statement (JCL)
56	(38)	CHARACTER	8	X052STMV	I.Statement verb
64	(40)	ADDRESS	4	X052RJCP	O.Chain of RJBs to queue before current statement
68	(44)	ADDRESS	4	X052RJCA	O.Chain of RJBs to queue after current statement
72	(48)	ADDRESS	4	X052RJCC	O.Chain of RJBs to queue after current card
76	(4C)	ADDRESS	4	X052RJOB	O.Chain of RJBs to queue after Job statement, but before first EXEC/INCLUDE
80	(50)	BITSTRING	1	X052FLG1	Statement flag byte
Following bits should be the same as RJB bits					
80	(50)	X'8'	0	X052LOPR	"X002LOPR" I.Last operand is on card
80	(50)	X'4'	0	X052QUOT	"X002QUOT" I.Unfinished quote at end of card
80	(50)	X'2'	0	X052CCMT	"X002CCMT" I.Card is a cont comment
80	(50)	X'1'	0	X052LAST	"X002LAST" I.Last card in statement
Field common to exits 2 and 52					
81	(51)	BITSTRING	1	X052ECLT	IO.Job JECL processing:
		1... ....		X052J2CL	"B'10000000'" Process JES2 JECL
		.1.. ....		X052J3CL	"B'01000000'" Process JES3 JECL
82	(52)	BITSTRING	2		Reserved
End of fields common to exits 2, 4, 52, and 54					
84	(54)	CHARACTER	8	X052OCLS	O.Override job class
92	(5C)	CHARACTER	8	X052OJNM	O.Override job name
Field common to exits 2 and 52					
100	(64)	CHARACTER	32	X052UCOR	IO.User portion of the job correlator
Field common to exits 2, 4, 52, and 54					
132	(84)	CHARACTER	12	X052ST12	I.Statement verb- length 12
132	(84)	X'90'	0	X052SIZE	"*-XPL" Size of XPL for Exit 52
Exit 53 XPL values JOB statement accounting field scan (User env) The mappings of exits 3 and 53 are identical.					
132	(84)	X'35'	0	X053XID	"53" Exit 53 ID
		.... ..1.		X053VERN	"X'02'" Exit 53 XPL version number
Indicator byte equates					
132	(84)	X'7'	0	X053IND	"XPLIND" Indicator byte
Condition byte equates					
132	(84)	X'8'	0	X053COND	"XPLCOND" Condition byte



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Response byte equates					
132	(84)	X'9'	0	X053RESP	"XPLRESP" Response byte
132	(84)	X'80'	0	X053XSEM	"X003XSEM" 0.Exit supplied error msg
132	(84)	X'40'	0	X053SKIP	"X003SKIP" 0.Skip default accounting field scan
132	(84)	X'20'	0	X053KILL	"X003KILL" 0.Kill current job
132	(84)	X'10'	0	X053PLUS	"XPLPLUS" Exit 53 parameter list
16	(10)	ADDRESS	4	X053ACCT	I.Addr of accounting field
20	(14)	ADDRESS	4	X053FLGX	I.For compatibility, ptr to FLAGX. Exits should use X053IND, X053COND and X053RESP instead.
24	(18)	ADDRESS	4	X053JXWR	I.Pointer to JCTXWRK
28	(1C)	SIGNED	4	X053ACTL	I.Leng of accounting field
32	(20)	ADDRESS	4	X053JCT	I.Address of JCT
36	(24)	ADDRESS	4	X053JQE	I.Address of JQE
40	(28)	ADDRESS	4	X053AREA	I.Address of JRW
44	(2C)	CHARACTER	8	X053JCLS	IO.Current/updated JOBCCLASS
52	(34)	BITSTRING	1	X053ECLT	IO.Job JECL processing:
		1... ....		X053J2CL	"B'10000000'" Process JES2 JECL
		.1.. ....		X053J3CL	"B'01000000'" Process JES3 JECL
53	(35)	BITSTRING	3		Reserved
53	(35)	X'38'	0	X053SIZE	"*-XPL" Size of XPL for Exit 53
56	(38)	ADDRESS	2	(0)	Ensure XPL for exits 3
56	(38)	ADDRESS	2	(0)	and 53 are same size
Exit 54 XPL values JCL and JES2 control statement scan (User env) The mapping of fields at the start of exits 2, 4, 52 and 54 are the same. Indicator values may vary based on the exit. The mappings of exits 4 and 54 are identical.					
56	(38)	X'36'	0	X054XID	"54" Exit 54 ID
		.... ...1		X054VERN	"X'01'" Exit 54 XPL version number
Indicator byte equates					
56	(38)	X'7'	0	X054IND	"XPLIND" Indicator byte
56	(38)	X'0'	0	X054JCL	"X004JCL" I.JCL card detected
56	(38)	X'4'	0	X054JECL	"X004JECL" I.JECL card detected
Condition byte equates					
56	(38)	X'8'	0	X054COND	"XPLCOND" Condition byte
56	(38)	X'80'	0	X054CONT	"X004CONT" I.Card is a continuation
56	(38)	X'40'	0	X054JOBP	"X004JOBP" I. JOBPARM card detected
56	(38)	X'20'	0	X054CMND	"X004CMND" I. \$ command card det
56	(38)	X'10'	0	X054SEC	"X004SEC" I.Not first time exit has been passed card
56	(38)	X'1'	0	X054PREJ	"X004PREJ" I.Card encountered outside a job structure



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
Response byte equates					
56	(38)	X'9'	0	X054RESP	"XPLRESP" Response byte
56	(38)	X'80'	0	X054XSNC	"X004XSNC" 0.Exit supplied next card
56	(38)	X'40'	0	X054XSEM	"X004XSEM" 0.Exit supplied error msg
56	(38)	X'20'	0	X054JCMT	"X004JCMT" 0.Skip processing card
56	(38)	X'10'	0	X054KILL	"X004KILL" 0.Kill current job
56	(38)	X'8'	0	X054PURG	"X004PURG" 0.Purge current job
56	(38)	X'4'	0	X054RLOC	"X004RLOC" 0.Changed/added cards are not to be sent via NJE (set RJCB3LOC in current RJCB)
56	(38)	X'10'	0	X054PLUS	"XPLPLUS" Exit 54 parameter list
16	(10)	ADDRESS	4	X054CARD	I.Address card image
20	(14)	ADDRESS	4	X054FLGX	I.For compatibility, ptr to FLAGX. Exits should use X054IND, X054COND and X054RESP instead.
24	(18)	ADDRESS	4	X054JXWR	I.Pointer to JCTXWRK
28	(1C)	ADDRESS	4	X054JCT	I.Address of JCT or zero
32	(20)	ADDRESS	4	X054JQE	I.Address of JQE or zero
36	(24)	ADDRESS	4	X054AREA	I.Address of JRW
40	(28)	ADDRESS	4	X054STMT	I.Pointer to stmt buffer
44	(2C)	ADDRESS	4	X054STME	IO.Addr 1 byte past end of statement buffer
48	(30)	CHARACTER	8	X054STML	I.Label on statement (JCL)
56	(38)	CHARACTER	8	X054STMV	I.Statement verb
64	(40)	ADDRESS	4	X054RJCP	0.Chain of RJCBs to queue before current statement
68	(44)	ADDRESS	4	X054RJCA	0.Chain of RJCBs to queue after current statement
72	(48)	ADDRESS	4	X054RJCC	0.Chain of RJCBs to queue after current card
76	(4C)	ADDRESS	4	X054RJOB	0.Chain of RJCBs to queue after Job statement, but before first EXEC/INCLUDE
80	(50)	BITSTRING	1	X054FLG1	Statement flag byte
Following bits should be the same as RJCB bits					
80	(50)	X'8'	0	X054LOPR	"X004LOPR" I.Last operand is on card
80	(50)	X'4'	0	X054QUOT	"X004QUOT" I.Unfinished quote at end of card
80	(50)	X'2'	0	X054CCMT	"X004CCMT" I.Card is a cont comment
80	(50)	X'1'	0	X054LAST	"X004LAST" I.Last card in statement
81	(51)	BITSTRING	3		Reserved
End of fields common to exits 2, 4, 52, and 54					
84	(54)	BITSTRING	8		Reserved
92	(5C)	BITSTRING	8		Reserved
100	(64)	BITSTRING	44		Reserved
100	(64)	X'90'	0	X054SIZE	"*-XPL" Size of XPL for Exit 54
144	(90)	ADDRESS	2	(0)	Ensure XPL for exits 52



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
144	(90)	ADDRESS	2	(0)	and 54 are same size
144	(90)	ADDRESS	2	(0)	Ensure XPL for exits 4
144	(90)	ADDRESS	2	(0)	and 54 are same size
Exit 55 XPL values NJE/TCP SYSOUT reception can never receive					
		.... ...1		X055VERN	"X'01'" Exit 55 XPL version number
144	(90)	X'37'	0	X055XID	"55" Exit 55 id
Indicator Byte Equates					
144	(90)	X'7'	0	X055IND	"XPLIND" Indicator byte
Condition Byte Equates					
144	(90)	X'8'	0	X055COND	"XPLCOND" Condition byte
Response Byte Equates					
144	(90)	X'9'	0	X055RESP	"XPLRESP" Response byte
144	(90)	X'80'	0	X055RECV	"XPLREB0" Allow data set receive
144	(90)	X'10'	0	X055PLUS	"XPLPLUS" Exit 55 parm list additions
16	(10)	ADDRESS	4	X055PDDB	PDDB address
20	(14)	ADDRESS	4	X055JCT	JCT address
24	(18)	ADDRESS	4	X055NDH	Data set header address
28	(1C)	ADDRESS	4	X055AREA	SRW address
28	(1C)	X'20'	0	X055SIZE	"*-XPL" Length of Exit 55 parm list
Exit 56 XPL values NJE/TCP header transmit					
		.... ...1		X056VERN	"X'01'" Exit 56 XPL version number
28	(1C)	X'38'	0	X056XID	"56" Exit 56 id
Indicator byte equates					
28	(1C)	X'7'	0	X056IND	"XPLIND" Indicator byte
		1... ....		X056HDR	"B'10000000'" Job Header call
		.1.. ....		X056TRL	"B'01000000'" Job Trailer call
		..1. ....		X056DSH	"B'00100000'" Data Set Header call
		...1 ....		X056RCCS	"B'00010000'" RCCS Data Set Header call
Condition byte equates					
28	(1C)	X'8'	0	X056COND	"XPLCOND" Condition byte
28	(1C)	X'80'	0	X056R1ST	"XPLCOB0" This RCCS header precedes the first data record
Response byte equates					
28	(1C)	X'9'	0	X056RESP	"XPLRESP" Response byte
28	(1C)	X'80'	0	X056TERM	"XPLREB0" Terminate this transmission
28	(1C)	X'40'	0	X056BYP	"XPLREB1" Bypass sending Hdr/Trlr



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		..11 1111		X056INV	"B'00111111'" Invalid response bit map
28	(1C)	X'10'	0	X056PLUS	"XPLPLUS" Exit 56 parameter list
16	(10)	ADDRESS	4	X056HADR	Address of Header/Trailer
20	(14)	ADDRESS	4		Unused (see exit 46)
24	(18)	ADDRESS	4	X056JQE	Address of JQE
28	(1C)	ADDRESS	4	X056JCT	Address of JCT
32	(20)	ADDRESS	4	X056PDDB	Address of PDDB (SYSOUT)
36	(24)	ADDRESS	4	X056JOA	Address of JOA (SYSOUT)
40	(28)	ADDRESS	4	X056AREA	Address of work area
40	(28)	X'2C'	0	X056SIZE	"*-XPL" Length of Exit 56 XPL
40	(28)	X'24'	0	X056JOE	"X056JOA" Equate for work JOE.
Exit 57 XPL values NJE/TCP header receive					
		.... ...1		X057VERN	"X'01'" Exit 57 XPL version number
40	(28)	X'39'	0	X057XID	"57" Exit 57 id
Indicator byte equates					
40	(28)	X'7'	0	X057IND	"XPLIND" Indicator byte
		1... ....		X057HDR	"B'10000000'" Job Header call
		.1.. ....		X057TRL	"B'01000000'" Job Trailer call
		..1. ....		X057DSH	"B'00100000'" Data Set Header call
		...1 ....		X057RCCS	"B'00010000'" RCCS Data Set Header call
		.... 1...		X057BJQE	"B'00001000'" JQE address in X057JQE is not a real JQE; don't use as input to \$D0GJQE
Condition byte equates					
40	(28)	X'8'	0	X057COND	"XPLCOND" Condition byte
Response byte equates					
40	(28)	X'9'	0	X057RESP	"XPLRESP" Response byte
40	(28)	X'80'	0	X057TERM	"XPLREB0" Terminate this reception
		.111 1111		X057INV	"B'01111111'" Invalid response bit map
40	(28)	X'10'	0	X057PLUS	"XPLPLUS" Exit 57 parameter list
16	(10)	ADDRESS	4	X057HADR	Address of Header/Trailer
20	(14)	ADDRESS	4	X057JCT	Address of JCT
24	(18)	ADDRESS	4	X057JQE	Address of JQE; see description of related bit X057BJQE in flag X057IND
28	(1C)	ADDRESS	4		Unused (see exit 47)
32	(20)	ADDRESS	4	X057PDDB	Address of PDDB slot
36	(24)	ADDRESS	4	X057AREA	Address of work area
36	(24)	X'28'	0	X057SIZE	"*-XPL" Length of Exit 57 XPL
Exit 58 XPL values End of step SSI					



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... ...1		X058VERN	"X'01'" Exit 58 XPL version number
36	(24)	X'3A'	0	X058XID	"58" Exit 58 id
Indicator byte equates					
36	(24)	X'7'	0	X058IND	"XPLIND" Indicator byte
Condition byte equates					
36	(24)	X'8'	0	X058COND	"XPLCOND" Condition byte
36	(24)	X'80'	0	X058STAB	"XPLCOB0" Step ABENDed
Response byte equates					
36	(24)	X'9'	0	X058RESP	"XPLRESP" Response byte
36	(24)	X'80'	0	X058SRST	"XPLREB0" Restart job after this step
36	(24)	X'40'	0	X058SRSH	"XPLREB1" Hold job after restart
36	(24)	X'10'	0	X058PLUS	"XPLPLUS" Exit 58 parameter list
16	(10)	ADDRESS	4	X058SJB	Address of SJB
20	(14)	ADDRESS	4	X058JCT	Address of JCT
24	(18)	CHARACTER	8	X058PSN	Name on EXEC PGM=
32	(20)	CHARACTER	8	X058PSS	Name on EXEC PROC=
40	(28)	SIGNED	2		Reserved
42	(2A)	SIGNED	2	X058STPC	Step completion code
44	(2C)	SIGNED	4	X058STPA	Step ABEND code
44	(2C)	X'30'	0	X058SIZE	"*-XPL" Length of Exit 58 XPL
Exit 59 XPL values Post Interpreter exit Note that this maps the same as the exit 6 and 60 XPL.					
		.... ...1		X059VERN	"X'01'" Exit 59 XPL version number
44	(2C)	X'3B'	0	X059XID	"59" Exit 59 id
Indicator byte equates					
44	(2C)	X'7'	0	X059IND	"XPLIND" Indicator byte
Condition byte equates					
44	(2C)	X'8'	0	X059COND	"XPLCOND" Condition byte
44	(2C)	X'80'	0	X059FAIL	"XPLCOB0" Interpreter failed flag
44	(2C)	X'40'	0	X059TSU	"XPLCOB1" TSO user
44	(2C)	X'20'	0	X059STC	"XPLCOB2" Started task
44	(2C)	X'10'	0	X059JOB	"XPLCOB3" Batch job
Response byte equates					
44	(2C)	X'9'	0	X059RESP	"XPLRESP" Response byte
44	(2C)	X'80'	0	X059HOLD	"XPLREB0" Job should be held
44	(2C)	X'10'	0	X059PLUS	"XPLPLUS" Exit 59 parameter list
16	(10)	ADDRESS	4	X059WORK	16 byte work area address
20	(14)	ADDRESS	4	X059IRET	Address of interpreter RC



Table 319. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
24	(18)	ADDRESS	4	X059CNVW	JES2 DTE work area address
28	(1C)	ADDRESS	4	X059JCT	JCT address
32	(20)	SIGNED	4		Reserved (mapped to exit 6)
36	(24)	ADDRESS	4	X059CIW	CIWORK data area address
40	(28)	CHARACTER	8	X059JCLS	Current/updated job class
48	(30)	CHARACTER	16	X059SCHE	and scheduling environ
48	(30)	X'40'	0	X059SIZE	"*-XPL" Length of Exit 59 XPL
Exit 60 XPL values JES2 converter exit (user environment) See exit 6 for SUBTASK environment converter exit Note that this maps the same as the exit 6 and 59 XPL					
	.... ...1			X060VERN	"X'01'" Exit 60 XPL version number
48	(30)	X'3C'	0	X060XID	"60" Exit 60 id
Indicator byte equates					
48	(30)	X'7'	0	X060IND	"XPLIND" Indicator byte
48	(30)	X'0'	0	X060TEXT	"0" Internal text exit
48	(30)	X'4'	0	X060CEND	"4" End of conversion
Condition byte equates					
48	(30)	X'8'	0	X060COND	"XPLCOND" Condition byte
48	(30)	X'40'	0	X060TSU	"XPLCOB1" TSO user
48	(30)	X'20'	0	X060STC	"XPLCOB2" Started task
48	(30)	X'10'	0	X060JOB	"XPLCOB3" Batch job
Response byte equates					
48	(30)	X'9'	0	X060RESP	"XPLRESP" Response byte
48	(30)	X'80'	0	X060HOLD	"XPLREB0" Job should be held
48	(30)	X'10'	0	X060PLUS	"XPLPLUS" Exit 60 parameter list
16	(10)	ADDRESS	4	X060WORK	16 byte work area address
20	(14)	ADDRESS	4	X060ITXT(0)	Internal text image address (X060IND = X060TEXT)
20	(14)	ADDRESS	4	X060CRET	Address of Converter RC (X060IND = X060CEND)
24	(18)	ADDRESS	4	X060CNVW	JES2 DTE work area address
28	(1C)	ADDRESS	4	X060JCT	JCT address
32	(20)	ADDRESS	4	X060CNMB	Address of message buffer
36	(24)	ADDRESS	4	X060CIW	CIWORK data area address
40	(28)	CHARACTER	8	X060JCLS	Current/updated job class
48	(30)	CHARACTER	16	X060SCHE	and scheduling environ
48	(30)	X'40'	0	X060SIZE	"*-XPL" Length of Exit 60 XPL

Table 320. Cross Reference for \$XPL

Name	Offset	Hex Tag
XPL	0	



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
XPLBLEN	C	10
XPLCOB0	8	80
XPLCOB1	8	40
XPLCOB2	8	20
XPLCOB3	8	10
XPLCOB4	8	8
XPLCOB5	8	4
XPLCOB6	8	2
XPLCOB7	8	1
XPLCOND	8	
XPLEXLEV	6	
XPLID	0	5BE7D7D3
XPLIND	7	
XPLLEVEL	4	
XPLPLUS	10	
XPLREB0	9	80
XPLREB1	9	40
XPLREB2	9	20
XPLREB3	9	10
XPLREB4	9	8
XPLREB5	9	4
XPLREB6	9	2
XPLREB7	9	1
XPLRESP	9	
XPLSIZE	A	
XPLVERN	4	1
XPLXITID	5	
X001COND	10	8
X001DCT	10	
X001DFSP	10	80
X001DSCT	18	
X001HBUF	34	
X001IND	10	7
X001JCNT	10	20
X001JCT	14	
X001JHDR	10	80
X001JNWS	10	40
X001JOA	20	
X001JQE	1C	



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X001JTLLR	10	40
X001NSWB	30	
X001PDDB	28	
X001PLUS	10	10
X001RESP	10	9
X001RSVD	32	
X001SIZE	34	38
X001SWBT	2C	
X001VERN	10	1
X001WJOE	34	20
X001XID	10	1
X002AREA	24	
X002BJQE	34	8
X002CARD	10	
X002CCMT	50	2
X002COND	34	8
X002CONT	34	80
X002ECLT	51	
X002FLGX	14	
X002FLG1	50	
X002IND	34	7
X002JCMT	34	20
X002JCT	1C	
X002JOBC	34	8
X002JOBG	34	9
X002JQE	20	
X002JXWR	18	
X002J2CL	51	80
X002J3CL	51	40
X002KILL	34	10
X002LAST	50	1
X002LOPR	50	8
X002OCLS	54	
X002OJNM	5C	
X002PLUS	34	10
X002PURG	34	8
X002QUOT	50	4
X002RESP	34	9
X002RJCA	44	



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X002RJCC	48	
X002RJCP	40	
X002RJ0B	4C	
X002RLOC	34	4
X002SEC	34	10
X002SIZE	84	90
X002STME	2C	
X002STML	30	
X002STMT	28	
X002STMV	38	
X002ST12	84	
X002UCOR	64	
X002VERN	34	3
X002XID	34	2
X002XSEM	34	40
X002XSNC	34	80
X003ACCT	10	
X003ACTL	1C	
X003AREA	28	
X003COND	84	8
X003ECLT	34	
X003FLGX	14	
X003IND	84	7
X003JCLS	2C	
X003JCT	20	
X003JQE	24	
X003JXWR	18	
X003J2CL	34	80
X003J3CL	34	40
X003KILL	84	20
X003PLUS	84	10
X003RESP	84	9
X003SIZE	35	38
X003SKIP	84	40
X003VERN	84	2
X003XID	84	3
X003XSEM	84	80
X004AREA	24	
X004CARD	10	



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X004CCMT	50	2
X004CMND	35	20
X004COND	35	8
X004CONT	35	80
X004FLGX	14	
X004FLG1	50	
X004IND	35	7
X004JCL	35	0
X004JCMT	35	20
X004JCT	1C	
X004JECL	35	4
X004JOBP	35	40
X004JQE	20	
X004JXWR	18	
X004KILL	35	10
X004LAST	50	1
X004LOPR	50	8
X004PLUS	35	10
X004PREJ	35	1
X004PURG	35	8
X004QUOT	50	4
X004RESP	35	9
X004RJCA	44	
X004RJCC	48	
X004RJCP	40	
X004RJOB	4C	
X004RLOC	35	4
X004SEC	35	10
X004SIZE	60	90
X004STME	2C	
X004STML	30	
X004STMT	28	
X004STMV	38	
X004ST12	54	
X004VERN	35	1
X004XID	35	4
X004XSEM	35	40
X004XSNC	35	80
X006CEND	90	4



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X006CIW	24	
X006CNMB	20	
X006CNVW	18	
X006COND	90	8
X006CRET	14	
X006HOLD	90	80
X006IND	90	7
X006ITXT	14	
X006JCLS	28	
X006JCT	1C	
X006JOB	90	10
X006PLUS	90	10
X006RESP	90	9
X006SCHE	30	
X006SIZE	30	40
X006STC	90	20
X006TEXT	90	0
X006TSU	90	40
X006VERN	90	1
X006WORK	10	
X006XID	90	6
X007CBID	10	
X007CBIN	30	10
X007CBUN	30	20
X007CBWR	30	40
X007COND	30	8
X007IND	30	7
X007IOER	30	80
X007JBTK	14	
X007PLUS	30	10
X007RESP	30	9
X007SIZE	14	1C
X007VERN	30	1
X007XID	30	7
X008CBID	10	
X008CBIN	14	10
X008CBUN	14	20
X008CBWR	14	40
X008COND	14	8



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X008FSSM	14	8
X008IND	14	7
X008IOER	14	80
X008PLUS	14	10
X008RESP	14	9
X008SIZE	10	14
X008VERN	14	1
X008XID	14	8
X009BEXC	10	10
X009BINC	28	
X009BVAL	1C	
X009CEXC	10	80
X009CNCL	10	4
X009COND	10	8
X009CONX	10	F0
X009DBYT	40	
X009DLIN	30	
X009DPAG	38	
X009DUMP	10	2
X009IND	10	7
X009INDX	10	F
X009JCT	10	
X009LEXC	10	40
X009LVAL	14	
X009OLIR	10	40
X009PEXC	10	20
X009PINC	24	
X009PLUS	10	10
X009PVAL	18	
X009RES0	10	3
X009RESP	10	9
X009RESX	10	E0
X009RINC	20	
X009SDEM	10	20
X009SIZE	48	48
X009USER	10	8
X009USRB	10	10
X009VERN	10	2
X009WARN	10	1



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X009XID	10	9
X009XOVR	10	80
X009722D	10	2
X009722N	10	1
X015BYP	48	80
X015CCWT	38	
X015CGCT	48	
X015COND	48	8
X015CPGP	44	
X015CPRT	40	
X015DCT	10	
X015DSCT	18	
X015DSEL	48	80
X015DSEP	48	40
X015IND	48	7
X015JCT	14	
X015JOA	20	
X015JQE	1C	
X015NCOP	3C	
X015NSWB	30	
X015PDDB	28	
X015PLUS	48	10
X015PRTR	34	
X015RESP	48	9
X015RFSW	48	80
X015RSVD	32	
X015SEPP	48	40
X015SIZE	48	4C
X015SWBT	2C	
X015VERN	48	1
X015WJOE	48	20
X015XID	48	F
X020AREA	1C	
X020AVF	48	10
X020BSAF	48	20
X020COND	48	8
X020DCT	18	
X020FLG1	21	
X020GJOB	48	80



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X020IND	48	7
X020JCLS	38	
X020JCT	10	
X020JECL	48	40
X020JQE	14	
X020LOGJ	21	20
X020NEXT	40	
X020NORM	48	80
X020OUTP	48	40
X020PLUS	48	10
X020PRIO	20	
X020PURG	48	20
X020RESP	48	9
X020SAF	24	
X020SENV	28	
X020SIZE	64	64
X020UCOR	44	
X020VERN	48	3
X020WSEL	48	10
X020XID	48	14
X020XNOD	22	
X0201ARM	21	80
X0201IND	21	40
X022COND	64	8
X022FRST	64	0
X022IND	64	7
X022IOER	64	80
X022MURE	64	4
X022MUST	64	8
X022PLUS	64	10
X022RESP	64	9
X022SIZE	14	18
X022STAA	14	
X022STAC	10	
X022VERN	64	1
X022XID	64	16
X024ALLS	14	10
X024COFM	14	1
X024COLD	14	4



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X024COND	14	8
X024ESYS	14	8
X024HOT	14	40
X024ICLK	14	FF
X024IND	14	7
X024IPL	14	2
X024PLUS	14	10
X024QCK	14	20
X024RESP	14	9
X024RSSI	14	80
X024SIZE	16	18
X024SSIA	10	
X024SSIL	16	
X024SSWL	14	
X024VERN	14	1
X024WARM	14	80
X024XID	14	18
X031COND	16	8
X031DSTY	10	
X031ERR	16	1
X031FAIL	16	1
X031IND	16	7
X031INTR	10	0
X031IOT	24	
X031JFCB	1C	
X031JSNW	10	4
X031PDDB	20	
X031PLUS	16	10
X031PSPI	10	10
X031RESP	16	9
X031SDB	14	
X031SDSB	10	14
X031SIZE	24	28
X031SJB	18	
X031SYIN	10	8
X031SYSO	10	C
X031UNK	10	18
X031VERN	16	1
X031XID	16	1F



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X032CIOE	11	1
X032COND	11	
X032ICON	10	1C
X032IND	10	
X032IRCL	10	8
X032IRJI	10	4
X032ISTC	10	10
X032ITSU	10	C
X032IWLD	10	18
X032IWLM	10	14
X032JCT	18	
X032PLUS	7	10
X032RBEG	12	20
X032RESP	12	
X032RHLD	12	40
X032RNMG	12	1
X032RTID	12	4
X032RTIN	12	8
X032RTJB	12	2
X032RVIC	12	10
X032SIZE	18	1C
X032SJB	14	
X032VERN	24	2
X032XID	24	20
X036BYPs	18	1
X036COND	18	8
X036IND	18	7
X036JES2	18	80
X036NORC	18	2
X036PARM	10	
X036PLUS	18	10
X036RCBA	1C	
X036RCBN	18	
X036RESP	18	9
X036RETC	20	
X036RSNC	24	
X036SIZE	24	28
X036USER	18	40
X036VERN	18	1



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X036WAVE	14	
X036XID	18	24
X037COND	24	8
X037IND	24	7
X037JES2	24	80
X037NORC	24	2
X037PARM	10	
X037PLUS	24	10
X037RCBA	1C	
X037RCBN	18	
X037RESP	24	9
X037RETC	20	
X037RSNC	24	
X037SIZE	24	28
X037USER	24	40
X037VERN	24	1
X037WAVE	14	
X037XID	24	25
X038COND	24	8
X038IND	24	7
X038JOA	14	
X038JOE	14	14
X038KEEP	24	80
X038PLUS	24	10
X038PS0	10	
X038RESP	24	9
X038SIZE	14	18
X038VERN	24	1
X038XID	24	26
X039AREA	1C	
X039COND	14	8
X039IND	14	7
X039JCT	14	
X039NDH	18	
X039PDDB	10	
X039PLUS	14	10
X039RECV	14	80
X039RESP	14	9
X039SIZE	1C	20



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X039VERN	14	1
X039XID	14	27
X040COND	1C	8
X040DSCT	1C	
X040IND	1C	7
X040JCT	18	
X040JQE	14	
X040NSPN	1C	40
X040PDDB	10	
X040PLUS	1C	10
X040RESP	1C	9
X040RFNT	1C	80
X040RNNT	1C	40
X040SIZE	20	34
X040SPIN	1C	80
X040UNSP	1C	20
X040VERN	1C	1
X040VTXT	20	
X040XID	1C	28
X041COND	20	8
X041DEFN	14	
X041GGKT	10	
X041IND	20	7
X041JDVT	18	
X041PLUS	20	10
X041RESP	20	9
X041RSVN	16	18
X041SIZE	18	20
X041TOTN	16	
X041VERN	20	1
X041XID	20	29
X042CANC	18	80
X042CKEY	2C	
X042COND	18	8
X042DERR	18	2
X042EMSG	18	40
X042EXTE	18	10
X042IND	18	7
X042MAIN	18	1



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X042MEMB	2D	
X042MEMC	18	2
X042MSGC	18	4
X042NEWM	28	
X042NEWN	14	
X042NEWNR	16	
X042NEWU	20	
X042NOAU	18	8
X042NOCH	18	20
X042NOXT	18	20
X042NWML	18	
X042PLUS	18	10
X042RC	1C	
X042REAS	1A	
X042RESP	18	9
X042RMCH	18	10
X042SETR	18	40
X042SIZE	2E	30
X042SNUA	10	
X042UERR	18	4
X042UNTK	18	80
X042USCH	18	8
X042VERN	18	2
X042XID	18	2A
X043CHG	2E	20
X043COND	2E	8
X043IND	2E	7
X043JCT	14	
X043PLUS	2E	10
X043RESP	2E	9
X043SIZE	14	18
X043SJB	10	
X043TPS	2E	80
X043TPT	2E	40
X043VERN	2E	1
X043XID	2E	2B
X044CNVQ	14	20
X044CNWT	14	20
X044COND	14	8



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X044CPER	14	8
X044DLGN	14	80
X044FKOF	14	40
X044IND	14	7
X044JCLE	14	4
X044JCLO	14	0
X044JCLS	18	
X044JCT	10	
X044JQE	14	
X044OUTQ	14	80
X044PLUS	14	10
X044PURQ	14	40
X044RESP	14	9
X044SCHE	20	
X044SIZE	20	30
X044VERN	14	3
X044XID	14	2C
X045CANC	20	80
X045CART	40	
X045CKEY	20	
X045CNID	48	
X045COND	20	8
X045DEST	21	80
X045ERAD	50	
X045ERLN	56	
X045EXTE	20	10
X045FLG1	21	
X045GRPN	34	
X045GRP1	3C	
X045GRP2	3E	
X045IND	20	7
X045INVF	20	4
X045INVI	20	2
X045JBID	2C	
X045JBNM	24	
X045JESD	20	40
X045JSSP	21	20
X045MDAD	4C	
X045MDLN	54	



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X045NOAU	20	8
X045NOXT	20	20
X045PCED	20	80
X045PLUS	20	10
X045RC	1C	
X045REAS	1A	
X045RESP	20	9
X045RSVD	18	
X045SECL	21	40
X045SETR	20	40
X045SFRB	14	
X045SIZE	56	58
X045SSFA	10	
X045VERN	20	2
X045XID	20	2D
X046AREA	28	
X046BYP	56	40
X046COND	56	8
X046DCT	14	
X046DSH	56	20
X046HADR	10	
X046HDR	56	80
X046IND	56	7
X046INV	56	3F
X046JCT	1C	
X046JOA	24	
X046JOE	28	24
X046JQE	18	
X046PDDB	20	
X046PLUS	56	10
X046RCCS	56	10
X046RESP	56	9
X046R1ST	56	80
X046SIZE	28	2C
X046TERM	56	80
X046TRL	56	40
X046VERN	56	2
X046XID	56	2E
X047AREA	24	



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X047BJQE	28	8
X047COND	28	8
X047DCT	1C	
X047DSH	28	20
X047HADR	10	
X047HDR	28	80
X047IND	28	7
X047INV	28	7F
X047JCT	14	
X047JQE	18	
X047PDDB	20	
X047PLUS	28	10
X047RCCS	28	10
X047RESP	28	9
X047SIZE	24	28
X047TERM	28	80
X047TRL	28	40
X047VERN	28	2
X047XID	28	2F
X049COND	24	8
X049IND	24	7
X049INV	24	1F
X049JQE	10	
X049NDUP	24	20
X049NOPT	24	40
X049NORM	24	0
X049PLUS	24	10
X049QGT	14	
X049RESP	24	9
X049SIZE	14	18
X049SJOB	24	4
X049SJSE	24	8
X049SKIP	24	80
X049VERN	24	1
X049XID	24	31
X050AREA	1C	
X050AVF	14	10
X050BSAF	14	20
X050COND	14	8



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X050DCT	18	
X050FLG1	21	
X050GJOB	14	80
X050IND	14	7
X050JCLS	38	
X050JCT	10	
X050JECL	14	40
X050JQE	14	
X050NEXT	40	
X050NORM	14	80
X050OUTP	14	40
X050PLUS	14	10
X050PRIO	20	
X050PURG	14	20
X050RESP	14	9
X050SAF	24	
X050SENV	28	
X050SIZE	64	64
X050UCOR	44	
X050VERN	14	2
X050WSEL	14	10
X050XID	14	32
X050XNOD	22	
X0501ARM	21	80
X0501IND	21	40
X051COND	64	8
X051FLG1	38	
X051IND	64	7
X051JBTK	3C	
X051JCT	14	
X051JOBC	1C	
X051JQA	10	
X051NEWQ	1A	
X051NEWT	1B	
X051NOCH	64	40
X051OLDQ	18	
X051OLDT	19	
X051PLUS	64	10
X051QCNV	39	2



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X051QHRD	39	9
X051QINP	39	1
X051QNUM	39	A
X051QOUT	39	8
X051QPUR	39	A
X051QRCV	39	7
X051QSET	39	3
X051QSPN	39	5
X051QXEQ	39	4
X051QXMT	39	6
X051RBLD	64	80
X051RESP	64	9
X051RQUE	64	40
X051RXEQ	64	80
X051SAF	34	
X051SENV	24	
X051SIZE	3C	44
X051VERN	64	1
X051XID	64	33
X0511IND	38	40
X052AREA	24	
X052BJQE	3C	8
X052CARD	10	
X052CCMT	50	2
X052COND	3C	8
X052CONT	3C	80
X052ECLT	51	
X052FLGX	14	
X052FLG1	50	
X052IND	3C	7
X052JCMT	3C	20
X052JCT	1C	
X052JOBC	3C	8
X052JOBG	3C	9
X052JQE	20	
X052JXWR	18	
X052J2CL	51	80
X052J3CL	51	40
X052KILL	3C	10



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X052LAST	50	1
X052LOPR	50	8
X0520CLS	54	
X0520JNM	5C	
X052PLUS	3C	10
X052PURG	3C	8
X052QUOT	50	4
X052RESP	3C	9
X052RJCA	44	
X052RJCC	48	
X052RJCP	40	
X052RJ0B	4C	
X052RLOC	3C	4
X052SEC	3C	10
X052SIZE	84	90
X052STME	2C	
X052STML	30	
X052STMT	28	
X052STMV	38	
X052ST12	84	
X052UCOR	64	
X052VERN	3C	3
X052XID	3C	34
X052XSEM	3C	40
X052XSNC	3C	80
X053ACCT	10	
X053ACTL	1C	
X053AREA	28	
X053COND	84	8
X053ECLT	34	
X053FLGX	14	
X053IND	84	7
X053JCLS	2C	
X053JCT	20	
X053JQE	24	
X053JXWR	18	
X053J2CL	34	80
X053J3CL	34	40
X053KILL	84	20



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X053PLUS	84	10
X053RESP	84	9
X053SIZE	35	38
X053SKIP	84	40
X053VERN	84	2
X053XID	84	35
X053XSEM	84	80
X054AREA	24	
X054CARD	10	
X054CCMT	50	2
X054CMND	38	20
X054COND	38	8
X054CONT	38	80
X054FLGX	14	
X054FLG1	50	
X054IND	38	7
X054JCL	38	0
X054JCMT	38	20
X054JCT	1C	
X054JECL	38	4
X054JOBP	38	40
X054JQE	20	
X054JXWR	18	
X054KILL	38	10
X054LAST	50	1
X054LOPR	50	8
X054PLUS	38	10
X054PREJ	38	1
X054PURG	38	8
X054QUOT	50	4
X054RESP	38	9
X054RJCA	44	
X054RJCC	48	
X054RJCP	40	
X054RJOB	4C	
X054RLOC	38	4
X054SEC	38	10
X054SIZE	64	90
X054STME	2C	



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X054STML	30	
X054STMT	28	
X054STMV	38	
X054VERN	38	1
X054XID	38	36
X054XSEM	38	40
X054XSNC	38	80
X055AREA	1C	
X055COND	90	8
X055IND	90	7
X055JCT	14	
X055NDH	18	
X055PDDB	10	
X055PLUS	90	10
X055RECV	90	80
X055RESP	90	9
X055SIZE	1C	20
X055VERN	90	1
X055XID	90	37
X056AREA	28	
X056BYP	1C	40
X056COND	1C	8
X056DSH	1C	20
X056HADR	10	
X056HDR	1C	80
X056IND	1C	7
X056INV	1C	3F
X056JCT	1C	
X056JOA	24	
X056JOE	28	24
X056JQE	18	
X056PDDB	20	
X056PLUS	1C	10
X056RCCS	1C	10
X056RESP	1C	9
X056R1ST	1C	80
X056SIZE	28	2C
X056TERM	1C	80
X056TRL	1C	40



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X056VERN	1C	1
X056XID	1C	38
X057AREA	24	
X057BJQE	28	8
X057COND	28	8
X057DSH	28	20
X057HADR	10	
X057HDR	28	80
X057IND	28	7
X057INV	28	7F
X057JCT	14	
X057JQE	18	
X057PDDB	20	
X057PLUS	28	10
X057RCCS	28	10
X057RESP	28	9
X057SIZE	24	28
X057TERM	28	80
X057TRL	28	40
X057VERN	28	1
X057XID	28	39
X058COND	24	8
X058IND	24	7
X058JCT	14	
X058PLUS	24	10
X058PSN	18	
X058PSS	20	
X058RESP	24	9
X058SIZE	2C	30
X058SJB	10	
X058SRSH	24	40
X058SRST	24	80
X058STAB	24	80
X058STPA	2C	
X058STPC	2A	
X058VERN	24	1
X058XID	24	3A
X059CIW	24	
X059CNVW	18	



Table 320. Cross Reference for \$XPL (continued)

Name	Offset	Hex Tag
X059COND	2C	8
X059FAIL	2C	80
X059HOLD	2C	80
X059IND	2C	7
X059IRET	14	
X059JCLS	28	
X059JCT	1C	
X059JOB	2C	10
X059PLUS	2C	10
X059RESP	2C	9
X059SCHE	30	
X059SIZE	30	40
X059STC	2C	20
X059TSU	2C	40
X059VERN	2C	1
X059WORK	10	
X059XID	2C	3B
X060CEND	30	4
X060CIW	24	
X060CNMB	20	
X060CNVW	18	
X060COND	30	8
X060CRET	14	
X060HOLD	30	80
X060IND	30	7
X060ITXT	14	
X060JCLS	28	
X060JCT	1C	
X060JOB	30	10
X060PLUS	30	10
X060RESP	30	9
X060SCHE	30	
X060SIZE	30	40
X060STC	30	20
X060TEXT	30	0
X060TSU	30	40
X060VERN	30	1
X060WORK	10	
X060XID	30	3C



## \$XPWORK information

### \$XPWORK heading information

<b>Common name:</b>	HASP Coupling PCE Work Area
<b>Macro ID:</b>	\$XPWORK
<b>DSECT name:</b>	PCE (\$XPWORK is part of the PCE DSECT)
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	'PCE ' Offset: PCEEYE-PCE Length: 4
<b>Storage attributes:</b>	Subpool: See \$PCE Key: See \$PCE Residency: See \$PCE
<b>Size:</b>	See symbol XPWPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.
<b>Created by:</b>	See \$PCE
<b>Pointed to by:</b>	The \$XCFPCE field of the \$HCT data area. See \$PCE for other pointer fields that apply to all PCE types.
<b>Serialization:</b>	Normal PCE dispatch serialization
<b>Function:</b>	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 mapping

Table 321. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP COUPLING PROCESSOR
336	(150)	SIGNED	4		Reserved
340	(154)	BITSTRING	1		Reserved
341	(155)	BITSTRING	1	XPWFLAG2	Recovery processing flag
		1... ....		XPW2ACTV	"B'10000000" PCE active
		.1.. ....		XPW2RCVY	"B'01000000" Recovery active
		..1. ....		XPW2REC1	"B'00100000" Once through recovery
342	(156)	BITSTRING	2		Reserved for IBM use
344	(158)	ADDRESS	4	XPWNFRQH	Head/Tail of notification
348	(15C)	ADDRESS	4	XPWNFRQT	exit requests
352	(160)	ADDRESS	4	XPWNFXIT	Notification exit chain



Table 321. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
356	(164)	BITSTRING	12	XPWSTQE	\$STIMER queue element
368	(170)	SIGNED	4		Reserved for IBM use
372	(174)	SIGNED	4		Reserved for IBM use
376	(178)	SIGNED	4		Reserved for IBM use
376	(178)	X'2C'	0	XPWPCEWL	"*-PCEWORK" LENGTH OF PCE WORK AREA

Table 322. Structure XNFELEM

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

Table 323. Cross Reference for \$XPWORK

Name	Offset	Hex	Tag
PCE	0		
XNFECBAD	18		
XNFELEM	0		
XNFELMLN	28		28
XNFEYE	0		
XNFFJES2	15		40
XNFFLAG	15		
XNFFSUBT	15		80
XNFLN	4		5
XNFPGMAD	1C		
XNFPRM	20		



Table 323. Cross Reference for \$XPWORK (continued)

Name	Offset	Hex Tag
XNFRQECB	10	
XNFRQNXT	8	
XNFRQPRV	C	
XNFRQTYP	14	
XNFSPLEN	4	
XNFSUBP	4	4
XNFXITID	24	
XNFXITNX	C	8
XPWFLAG2	155	
XPWNFRQH	158	
XPWNFRQT	15C	
XPWNFXIT	160	
XPWPCEWL	178	2C
XPWSTQE	164	
XPW2ACTV	155	80
XPW2RCVY	155	40
XPW2REC1	155	20

## \$XREQ information

### \$XREQ heading information

<b>Common name:</b>	XCF Information Request Message
<b>Macro ID:</b>	\$XREQ
<b>DSECT name:</b>	XREQ
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	XREQ Offset: XREQID-XREQ Length: L'XREQID
<b>Storage attributes:</b>	Subpool: 0 Key: 1 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.
<b>Size:</b>	See XREQLEN
<b>Created by:</b>	HASPXCF
<b>Pointed to by:</b>	XCMXBUFA field of the \$XCMWORK data area XCMACKPT field of the \$XCMWORK data area Expanded in line in HASPIRDA
<b>Serialization:</b>	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 mapping**

Table 324. Structure XREQ

Offset Dec	Offset Hex	Type	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)
Main JES2 XCF intermember command request types Mailbox: SYSJESXCF\$CMD Address space name: JES2 JESXCF group: \$XCFGPNM					
6	(6)	X'1'	0	XREQSCAN	"1" Process \$SCAN request
6	(6)	X'2'	0	XREQSTAT	"2" Update status request
6	(6)	X'3'	0	XREQJOE	"3" Update JWEL/TJEV status
6	(6)	X'4'	0	XREQPJOE	"4" Post JOE without clearing JWELs
6	(6)	X'5'	0	XREQPXEQ	"5" \$POSTXEQ
6	(6)	X'6'	0	XREQRLOG	"6" \$RBLDLOG SYSLOG chain rebuild
6	(6)	X'7'	0	XREQSPIN	"7" SPIN-ANY support
6	(6)	X'8'	0	XREQJQSP	"8" JQA spinnable update
6	(6)	X'9'	0	XREQDCLS	"9" Process JOBCLASS or JOBCLASS GROUP delete
6	(6)	X'A'	0	XREQJMOD	"10" Process Job Modify SSI rq
6	(6)	X'B'	0	XREQCKTR	"11" CKPT tuning request
6	(6)	X'C'	0	XREQDLS	"12" Deadline scheduling request (DLS)
6	(6)	X'D'	0	XREQTMOF	"13" Time offset change event
6	(6)	X'E'	0	XREQZGL	"14" Jobgroup logging request
6	(6)	X'F'	0	XREQRSLR	"15" Reset resource limits
6	(6)	X'F'	0	XREQMXRQ	"15" Highest supported type
Spool migration request types Mailbox: SYSJES2MIGR\$ASST Address space name: JES2 JESXCF group: SYSMGnnn					



Table 324. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
6	(6)	X'1'	0	XREQPHA1	"1" Start phase 1
6	(6)	X'2'	0	XREQPHA2	"2" Start phase 2
6	(6)	X'3'	0	XREQCNCL	"3" Cancel migration
6	(6)	X'4'	0	XREQSTAU	"4" Migration status
6	(6)	X'5'	0	XREQEND	"5" Successful migration end
Spool migration request types Mailbox: SYSJES2RN\$<volser> Address space name: JES2 JESXCF group: SYSMGnnn SPOOL migration mailbox: Runtime sends "IO permission" requests to migrator via this mailbox. Created by migrator subtask. One per migration.					
6	(6)	X'1'	0	XREQIOPE	"1" IO permission message
Multi-system data retrieval request types Mailbox: SYSJES\$XSYSBUF Address space name: JES2 AUX subtask JESXCF group: SYSJ2\$XD					
6	(6)	X'1'	0	XREQXBUF	"1" Retrieve instorage HDB (use PROTSRB service)
6	(6)	X'2'	0	XREQITDT	"2" Retrieve initiator data (initiator SSI)
6	(6)	X'3'	0	XREQMGSW	"3" Migrator switch (spool migration)
6	(6)	X'4'	0	XREQCKPH	"4" CKPTed HCT info (Init deck checker)
Jobgroup logging message request Mailbox: SYSJES\$JOBGRPL0G Address space name: JES2AUX JESXCF group: SYSJ2\$XD					
6	(6)	X'4'	0	XREQZGM	"4" Jobgroup message request
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
112	(70)	DBL WORD	8	(0)	Alignment
112	(70)	X'70'	0	XREQBASE	"*-XREQ" Length of base section
Data area. The contents of the data area depends on the information requested (XREQINFO).					
112	(70)	DBL WORD	8	XREQDATA(0)	Start of data area



Table 324. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>Issue \$SCAN request (XREQINFO = 1)            This request passes as input a series of SCAN processable statements seperated by a X'15'. The first blank delimited word in the request is an action type (this determines the values used for SCAN= and CALLER= for the \$SCAN REQUEST). This is processed on the receiving side by calling \$SCAN for each X'15' delimited statement. A caller ID of IRPL is used and the output of the \$SCAN call is returned to the caller. For each high level SCANTAB processed, a logical line of output is returned. Each logical line will be seperated by a X'15'. The logical line is valid input to a \$SCAN set call. If there is an error on the \$SCAN call, the HASP003 message is returned (with the message id).            Valid action types are:              \$D - Display command              \$DSHORT - Short display command              \$T - Set command              \$S - Start command              \$P - Purge command              \$E - Reset command              \$ADD - Add command              \$DEL - Delete command            Example:            Sending buffer (? = X'15' in example)              \$D CKPTDEF MODE ?\$D SPOOLDEF VOLUME            Response              CKPTDEF MODE=DUAL ?SPOOLDEF VOLUME=SPOL1 ?</p>					
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)	BITSTRING	1	XRESFLA1	Flag1
117	(75)	BITSTRING	3		Reserved
120	(78)	CHARACTER	1	XRESCADA(0)	Start of returned data
<p>Update status request (XREQINFO = 2)            This request passes updated status information to all members. There is no response data.</p>					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	8	XRESTNAM	JES2 member name
128	(80)	DBL WORD	8	XRESTTIM	Time of last CKPT access
136	(88)	SIGNED	4	XREAHOLD	Actual HOLD value
140	(8C)	SIGNED	4	XREADORM	Actual dormancy value
144	(90)	SIGNED	4	XRESCKLV	Last change CKPT level
148	(94)	SIGNED	2	XRESTGSZ	Current TG size
150	(96)	BITSTRING	1	XRESFLG1	Flags:
		1... ..		XRES1FW	"B'10000000" CKPT tuning needed
		.1.. ....		XRES1TCM	"B'01000000" Ckpt tuning changes made
		..1. ....		XRES1EX1	"B'00100000" CKPT1 has been extended
		...1 ....		XRES1EX2	"B'00010000" CKPT2 has been extended
		.... 1...		XRES1RSN	"B'00001000" Ckpt tuning reset needed
		.... .1..		XRES1END	"B'00000100" Member released CKPT (FW) (z/OS 2.4 and later)
151	(97)	BITSTRING	1	XRESFLG2	Additional flags
		1... ..		XRE2TRCK	"B'10000000" A TRACK exists for member



Table 324. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.1... ....		XRE2ALRT	"B'01000000'" An ALERT exists for member
		..1. ....		XRE2NTCE	"B'00100000'" A NOTICE exists for member
		...1 ....		XRE2CRIT	"B'00010000'" at least 1 is critical
152	(98)	CHARACTER	44	XRESDSM	Current SP00L DSN mask
196	(C4)	SIGNED	4	XREZPSEQ	z/OS product sequence numb.
200	(C8)	SIGNED	4	XRESPAIN	Member pain value
204	(CC)	SIGNED	4	XRESPNRT	Member pain rate
208	(D0)	SIGNED	4	XRESOHV	CKPT access overhead (in microsecs)
212	(D4)	SIGNED	4	XRESQSMX	Time between getting CKPT and last \$WAIT by PCE with \$QSUSE (in microsecs)
216	(D8)	SIGNED	4	XRESHOLD	Nominal hold
220	(DC)	SIGNED	4	XRESLDRM	Configured min DORMANCY
224	(E0)	SIGNED	4	XRESHDRM	Configured max DORMANCY
228	(E4)	SIGNED	2	XRESCTSN	Ckpt tuning cycle number
230	(E6)	BITSTRING	2		Reserved
230	(E6)	X'78'	0	XRESCTDL	"*-XREQDATA" Len with CKPT tuning data
232	(E8)	SIGNED	4	XRESCKRT	Avg ckpt request interval (in 1/100s of second)
236	(EC)	CHARACTER	4	XRESEMGN	Emergency subsystem name
236	(EC)	X'80'	0	XRESEMGL	"*-XREQDATA" Len with emergency subsys
240	(F0)	SIGNED	4	XRESCHLD	Configured HOLD
244	(F4)	SIGNED	4	(4)	Reserved
244	(F4)	X'104'	0	XRESTLEN	"*-XREQ" Total length of request
Update JWEL/TJEV status (XREQINFO = 3) Post JOE without clearing JWELs (XREQINFO = 4) or Post JOE with clearing JWELs or synchronize JOECRTME and \$JWECRTM This request passes a JOE offset and JOE creation time. For XREQINFO = 3, this is used to manage the removal of JWELs and TJEVs. There is no response data. For XREQINFO = 4, this is used to \$#POST a JOE without removing the JWELs. There is no response data.					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	ADDRESS	4	XREJOEOF	JOE offset
124	(7C)	SIGNED	4	XREJOECR	JOE creation time
128	(80)	SIGNED	4	XREJOEPR	Prior 'creation' time
132	(84)	BITSTRING	1	XREJFLG1	Flags
		1... ....		XREJ1PST	"B'10000000'" \$#POST needed
		11.. ....		XREJ1KPJ	"B'11000000'" \$#POST and keep JWELs
		..1. ....		XREJ1CRT	"B'00100000'" Ensure JOECRTME=\$JWECRTM
133	(85)	BITSTRING	3		Reserved for future use
133	(85)	X'88'	0	XREJOELN	"*-XREQ" Total length of request
133	(85)	X'22'	0	XREJOELW	"(*-XREQ+3)/4" Total length in words



Table 324. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Perform \$POSTXEQ. (XREQINFO = 5) Perform \$POSTXEQ. There is no response data.					
112	(70)	SIGNED	4	(2)	Reserved
112	(70)	X'78'	0	XREXEQLN	"*-XREQ" Total length of request
112	(70)	X'1E'	0	XREXEQW	"(*-XREQ+3)/4" Total length in words
Rebuild SYSLOG chain. (XREQINFO = 6) Call the HASPJQS routine \$RBLDLOG to rebuild the chain of SYSLOG job JQEs. There is no response data. Passed data is the MVS system name of the member that needs its SYSLOG chain rebuilt, and an indicator whether to check the chain before doing the rebuild.					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	8	XRERLMVS	MVS system name w/bad SYSLOG chain
128	(80)	SIGNED	4	XRERLCHN	Check syslog chain ind
128	(80)	X'84'	0	XRERBLLN	"*-XREQ" Total length of request
128	(80)	X'21'	0	XRERBLLW	"(*-XREQ+3)/4" Total length in words
SPIN-ANY support (XREQINFO = 7) Perform a surrogate WTO with a HASP138 message that in turn precipitates code in the WTO SSI that performs \$SPIN operations.					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	1	XREPDAT(0)	Start of SPIN data
120	(78)	SIGNED	4	XREPJOB	Job number
124	(7C)	SIGNED	2	XREP138	Length of text
126	(7E)	CHARACTER	100	XREPMSG	HASP138 text
228	(E4)	SIGNED	4	XREPCNID	Console id
228	(E4)	X'70'	0	XREPDLN	"*-XREPDAT" Lenth of SPIN data
228	(E4)	X'E8'	0	XREPBLN	"*-XREQ" Total length of request
228	(E4)	X'3A'	0	XREPBLW	"(*-XREQ+3)/4" Total length in words
JQA set spinnable (XREQINFO = 8) Update JQA by turning on JQA1SPIN flag.					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	SIGNED	4	XSPNJOB	Job number
120	(78)	X'7C'	0	XSPNBLLN	"*-XREQ" Total length of request
120	(78)	X'1F'	0	XSPNBLLW	"(*-XREQ+3)/4" Total length in words
Delete JOBCCLASS or CLASS Group (XREQINFO = 9) Update JQA by turning on JQA1SPIN flag.					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	8	XCLSNAME	Class or group name
128	(80)	BITSTRING	1	XCLSTYPE	Type of item being deleted
128	(80)	X'1'	0	XCLSTCLS	"1" JOBCCLASS
128	(80)	X'2'	0	XCLSTGRP	"2" JOBCCLASS GROUP
129	(81)	BITSTRING	3		Reserved
129	(81)	X'84'	0	XCLSBLLN	"*-XREQ" Total length of request
129	(81)	X'21'	0	XCLSBLLW	"(*-XREQ+3)/4" Total length in words



Table 324. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Process Job Modify SSI Request (XREQINFO = 10) Call the appropriate routine to perform the Job Modify SSI request. The response data should indicate the success or failure of the function. Valid action types are: \$T - Set command \$S - Start command \$P - Purge command \$E - Restart command					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	1	XREJDATA(0)	Start of MODJOB req data
120	(78)	ADDRESS	4	XREJMDJQ	Address of associated JQRB
124	(7C)	SIGNED	4	XREJMDJA	ALET of associated JQRB
128	(80)	BITSTRING	1	XREJMDTY	Type of request passed. See field SSJMTYPE in macro IZASSJM for definitions
129	(81)	BITSTRING	1	XREJMDF1	Flags
		1... ....		XREJMD1S	"B'10000000" SYNC request in JQRB
		.1.. ....		XREJMD1X	"B'01000000" Request sent cross member
		..11 ....		XREJMD1R	"B'00110000" Reserved
		.... 1...		XREJCONC	"B'00001000" \$DCONSET versus \$DMNDJOB
130	(82)	BITSTRING	2		Reserved for future use
132	(84)	CHARACTER	64	XREJMDJC	Job correlator, target job
196	(C4)	BITSTRING	1	XREJMDMN	Member number where to send message
197	(C5)	BITSTRING	3		Reserved for future use
200	(C8)	ADDRESS	4	(2)	Reserved for future use
200	(C8)	X'58'	0	XREJMDBL	"*-XREJDATA" Base length of request data
208	(D0)	CHARACTER	1	XREJMDTA(0)	Start of associated data
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	ADDRESS	4	XREJMRJQ	Address of associated JQRB
124	(7C)	SIGNED	4	XREJMRJA	ALET of associated JQRB
128	(80)	BITSTRING	1	XREJMRTY	Type of request passed. See field SSJMTYPE in macro IZASSJM for definitions
129	(81)	BITSTRING	1	XREJMRF1	Flags
		1... ....		XREJMR1S	"B'10000000" SYNC request in JQRB
		.1.. ....		XREJMR1X	"B'01000000" Request sent cross member
		..1. ....		XREJMR1U	"B'00100000" Service got update JQA
		...1 ....		XREJMR1R	"B'00010000" Service got read JQA
130	(82)	BITSTRING	2		Reserved for future use
132	(84)	CHARACTER	64	XREJMRJC	Job correlator, target job
196	(C4)	BITSTRING	1	XREJMRMN	Member number where message sent
197	(C5)	BITSTRING	3		Reserved for future use
200	(C8)	ADDRESS	4	(2)	Reserved for future use
208	(D0)	SIGNED	4	XREJMRRC	RC from MODJOB function
212	(D4)	SIGNED	4	XREJMRIC	Internal code from service
216	(D8)	SIGNED	4		Reserved



Table 324. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
216	(D8)	X'DC'	0	XREJMDRL	"*-XREQ" Total length of response
CKPT tuning request (XREQINFO = 11) Process CKPT tuning request from another member					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	DBL WORD	8	XRECTIME	Message timestamp
128	(80)	BITSTRING	1	XRECREQ	Type of request:
128	(80)	X'1'	0	XRECSTRT	"1" - START CKPT tuning
128	(80)	X'2'	0	XRECSTOP	"2" - STOP CKPT tuning
128	(80)	X'3'	0	XRECOPT	"3" - OPTIMIZE
129	(81)	BITSTRING	1		Reserved
130	(82)	SIGNED	2	XRECSEQN	Ckpt tuning cycle number
132	(84)	SIGNED	4	XRECBCL	Length of basic cycle
136	(88)	SIGNED	4	XRECFHLD	"fair-share" HOLD value
140	(8C)	SIGNED	4	XRECCKRI	Total ckpt request interval (in 1/100s of second)
144	(90)	SIGNED	4	XRECCKRC	Nr of contributors
148	(94)	SIGNED	4	(2)	Reserved
Tuning data for all members. Entries in this array are mapped by XRECMBRE.					
156	(9C)	SIGNED	2	XRECMDEN	Number of entries in array
158	(9E)	SIGNED	2	XRECMDEL	Length of entry in array
160	(A0)	BITSTRING	1	XRECMBRD	Member data
160	(A0)	X'220'	0	XRECSIZE	"*-XREQ" Total length of request
Deadline scheduling request (XREQINFO = 12) Register job for deadline scheduling processing					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	SIGNED	4	XDLSJBX	JQE index
124	(7C)	SIGNED	4	XDLSJBKY	Job key
128	(80)	BITSTRING	1	XDLSFUNC	Function requested:
128	(80)	X'1'	0	XDLSADDH	"1" add HOLDUNTl job
129	(81)	BITSTRING	1	XDLSFLG1	Flags:
		1... ....		XDLS1UTC	"B'10000000" Time is UTC
130	(82)	BITSTRING	6	XDLSIME	Job event timestamp in ETOD format
136	(88)	BITSTRING	1	XDLSMBR	Job input member id
137	(89)	BITSTRING	15		Reserved
137	(89)	X'98'	0	XDLSIZE	"*-XREQ" Total length of request
Time offset change event (XREQINFO = 13) Report local time offset change on a member					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	DBL WORD	8	XTMOTIME	Message timestamp
128	(80)	SIGNED	4	XTMOFFST	New time offset
132	(84)	BITSTRING	1	XTMOMBR	Reporting member id
133	(85)	BITSTRING	3		Reserved



Table 324. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
133	(85)	X'88'	0	XTMOSIZE	"*-XREQ" Total length of request
Reset resource limits (XREQINFO = 15) Reset resource limits of an active job. See \$TJ,RAISE_LIMITS command.					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	SIGNED	4	XRRLJOBN	Job number
124	(7C)	SIGNED	4	XRRLJBKY	Job key
128	(80)	SIGNED	4	XRRLCNID	Console id
132	(84)	CHARACTER	8	XRRLCART	Command And Response Token
140	(8C)	SIGNED	4	(3)	Reserved
140	(8C)	X'98'	0	XRRLBLLN	"*-XREQ" Total length of request
End of definitions for Mailbox name SYSJESXCF\$CMD Perform PROTSRB. Mailbox name = SYSJES\$XSYSBUF This request will pass as input the PROTSRB parm list and return as output a data buffer.					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	SIGNED	4	XRESRBP(0)	-- PROTSRB parm list
120	(78)	ADDRESS	4	XREGTBF	Protected buffer address
124	(7C)	BITSTRING	8	XRESPAD	SPIOSPAD   Spool address to be found
132	(84)	BITSTRING	4	XREJKEY	SPIOJKEY   Job key
136	(88)	SIGNED	4	XREDSKY	SPIODSKY   Dataset key
140	(8C)	SIGNED	2	XREASID	SPIOASID   ASID where job is running
142	(8E)	BITSTRING	1	XREMEMBN	Member number
143	(8F)	BITSTRING	1	XREQFLG1	Flag byte
SBWA2SPB EQU B'10000000'   Spool browse and job log SBWA2JLG EQU B'01000000'   data set flags SBWA2ARQ EQU B'00100000'   and ASINFO data requested/ SBWA2ART EQU B'00010000'   returned flags as defined   in \$SBWA and SIWSRBP SBWA2ATI EQU B'00001000'   SBWA2DTB EQU B'00000100'   SBWA2SPN EQU B'00000010' --					
143	(8F)	X'18'	0	XSRBREQL	"*-XRESRBP" Length of SRB request
143	(8F)	X'90'	0	XREXBFLN	"*-XREQ" Total length of request
112	(70)	SIGNED	4		Reserved
116	(74)	SIGNED	4	XREXDLEN	Data length
120	(78)	BITSTRING	1	XREXDATA(0)	Start of returned data
The following fields are used when a data object is being returned					
120	(78)	SIGNED	8	XREXRBA	MQTR/record # of object
128	(80)	BITSTRING	16		Reserved
144	(90)	BITSTRING	1	XREXROBJ(0)	Start of data object
Request initiator data (XREQINFO = XREQITDT) Mailbox name = SYSJES\$XSYSBUF This request will pass as input appropriate filters and flags and get back initiator data.					
112	(70)	BITSTRING	1	XREIPRCF	Processing flags (copy of ITWPROCF in HASC SIJP)



Table 324. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
113	(71)	BITSTRING	1	XREIFLG1	Init SSI filters (see JPITFLG1 in IAZJPITD)
114	(72)	BITSTRING	1	XREISTAT	Init Status Filter (see JPITSTAT in IAZJPITD)
115	(73)	BITSTRING	1	XREIFLGR	Request restart flags (see ITWFLGR in \$ITWORK)
116	(74)	SIGNED	4	XREIREST	Request restart counter
120	(78)	CHARACTER	8	XREICLAS	Service/Job Class Name (see JPITSCLS in IAZJPITD)
128	(80)	CHARACTER	1	XREISTKN	Caller security token
128	(80)	X'D0'	0	XREIBFLN	"*-XREQ" Total length of request
112	(70)	BITSTRING	4	XREROINJ	Offset to 1st JES2 init (zero if none returned)
116	(74)	BITSTRING	4	XREROINW	Offset to 1st WLM init (zero if none returned)
120	(78)	BITSTRING	2	XRERDVER	Version of data
122	(7A)	BITSTRING	1	XRERFLGR	Response restart flags (see ITWFLGR in \$ITWORK)
123	(7B)	BITSTRING	1		Reserved
124	(7C)	SIGNED	4	XRERREST	Response restart counter
128	(80)	SIGNED	4	XRERDATA(0)	Start of returned data
Migrator switch (XREQINFO = XREQMGSW) Mailbox name = SYSJES\$XSYSEBUF This request will update migrator member id in the specified CSA DAS and reroute all I/O permission messages to new migrator. This request is used by spool migration recovery. (Note that this request is sent as a COMM message and does not have any response.)					
112	(70)	SIGNED	4	XREWDAISI	CSA DAS index
116	(74)	SIGNED	4	XREWMGID	New migrator id
120	(78)	SIGNED	4	(2)	Reserved
120	(78)	X'80'	0	XREWBFLN	"*-XREQ" Total length of request
Request message: Start phase 1 (XREQINFO = XREQPHA1) Start phase 2 (XREQINFO = XREQPHA2) Cancel migration (XREQINFO = XREQCNCL) End migration (XREQINFO = XREQEND) Mailbox name = SYSJES2MIGR\$ASST This request will pass as input source VOLSER and DASEXTNO identifying migration on which to perform the above operations. Spool assistants are required to send response for all of these messages on mailbox MG\$<VOLSER>.					
112	(70)	SIGNED	4		Reserved
116	(74)	SIGNED	4	XRESTRT	Start target TG bit in support of transposer - only in start phase 1 msg
120	(78)	SIGNED	4	XRETIBM	Relative track at which the track level bitmap (TLBM) starts on TARG DS. Value of 0 denotes no TLBM. Only in start phase 1 msg.
124	(7C)	CHARACTER	6	XREVOLSR	Source DAS VOLSER ID
130	(82)	BITSTRING	1	XREEXTNO	Source DAS DASEXTNO
131	(83)	ADDRESS	1	XRMIGTR	SYSID of migrator system where response (ACK) must be sent to
132	(84)	BITSTRING	1		Reserved for future use



Table 324. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
132	(84)	X'85'	0	XREPHELEN	"*-XREQ" Total length of request
Request message Migration status (XREQINFO = XREQSTAU) Mailbox name = SYSJES2MIGR\$ASST This request is broadcast to all spool assistants conveying migration information. Spool assistants need not send a response ACK message.					
112	(70)	SIGNED	4		Reserved for future use
116	(74)	BITSTRING	4	XRMEMACK	Copy of migrator ACK list for start phase 1, start phase 2, end migration and cancel.
120	(78)	BITSTRING	1	XREPERCE	Percent complete
121	(79)	CHARACTER	6	XRERVSR	Source DAS VOLSER ID
127	(7F)	BITSTRING	1	XRERTNO	Source DAS DASEXTNO
128	(80)	SIGNED	4	XRETLBMR	Number of records in TLBM
132	(84)	BITSTRING	1	XRTLBM	TLBM flags
		1... ....		XRTLBMWR	"B'10000000" TLBM has been written to target dataset
133	(85)	BITSTRING	1	XRERSFLG	Status Flag
		1... ....		XRERNCAN	"B'10000000" Migration not cancellable
134	(86)	BITSTRING	1	XRMITGSK	Migrator subtask state
135	(87)	BITSTRING	1		Reserved for future use
135	(87)	X'88'	0	XRERLEN	"*-XREQ" Total length of request
Response message. Phase 1 start complete (XREQINFO = XREQPHA1) for this MAS member. Phase 2 start complete (XREQINFO = XREQPHA2) for this MAS member. Cancel migration complete (XREQINFO = XREQCNCL) for this MAS member. End migration complete (XREQINFO = XREQEND ) for this MAS member. Mailbox name = SYSJES2MG\$VOLSER This is notification of operation completion on a per member basis. Migration spool assistant subtask sends this message.					
112	(70)	BITSTRING	3	XRMEMBR	MAS member affinity token
115	(73)	BITSTRING	1		Reserved for future use
116	(74)	SIGNED	4	(2)	Reserved
116	(74)	X'7C'	0	XRMELEN	"*-XREQ" Total length of request
IO permission request (XREQINFO = XREQIOPE) Mailbox name = SYSJES2RN\$VOLSER Send 'IO permission' request via runtime.					
112	(70)	SIGNED	4	XRETTRAC	Source DAS track
116	(74)	BITSTRING	1	XRETIOTY	IO type
		.... ...1		XRETREAD	"X'01'" Read
		.... ...1.		XRETWRIT	"X'02'" Write
117	(75)	BITSTRING	3		Reserved for future use
120	(78)	DBL WORD	8	XRETCAN(0)	Request chain
120	(78)	ADDRESS	4	XRETCFW	off \$DTEMIGR
124	(7C)	ADDRESS	4	XRETCBK	(managed by \$FIFOENQ)
128	(80)	ADDRESS	4	XRETCN2	Request chain off MGDDBUF



Table 324. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
136	(88)	DBL WORD	8	XRETTOKN	JESXCF message token
144	(90)	SIGNED	4	(2)	Reserved
144	(90)	X'98'	0	XRETTLEN	"*-XREQ" Length of the request
152	(98)	SIGNED	4	XRETDATA(0)	Start of returned data
IO permission response (XREQINFO = XREQIOPE) Mailbox name = SYSJES2RN\$VOLSER "IO permission" request response from migrator.					
112	(70)	BITSTRING	1	XREFLAG	Flags
		1... ....		XREOVRMP	"B'10000000'" Override source DAS mapped value.
		.1.. ....		XREBTOFF	"B'01000000'" Turn off associated track level bitmap - bit
113	(71)	BITSTRING	3		Reserved for future use
116	(74)	SIGNED	4	(2)	Reserved
116	(74)	X'7C'	0	XREQIOLN	"*-XREQ" Total length of request
Jobgroup logging request (XREQINFO = XREQZGL)					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	BITSTRING	1	XZGLFUNC	Function requested:
120	(78)	X'1'	0	XZGLTOVR	"1" logging takeover
121	(79)	BITSTRING	1	XZGLMBR	Requesting member
Array of JQE entries for the jobs affected by the request. Entries are mapped by XZGLENT DSECT. For XZGLSTRT request, XZGLARRN = 0 means that request applies to all jobgroup logging JQEs owned by the requesting member.					
122	(7A)	BITSTRING	2	XZGLARRO	Offset to the 1st element
124	(7C)	BITSTRING	2	XZGLARRN	Number of entries
126	(7E)	BITSTRING	2	XZGLARRL	Length of the entry
128	(80)	BITSTRING	1	XZGLFLG1	Flags:
		1... ....		XZGL1STQ	"B'10000000'" scan SETUP queue
		.1.. ....		XZGL10UQ	"B'01000000'" scan OUTPUT queue
		..1. ....		XZGL1PGQ	"B'00100000'" scan PURGE queue
		...1 ....		XZGL1POU	"B'00010000'" POST OUTPUT processor
		.... 1...		XZGL1PPG	"B'00001000'" POST PURGE processor
129	(81)	BITSTRING	7		Reserved
129	(81)	X'88'	0	XZGLSIZE	"*-XREQ" Length of fixed part of the message request
Jobgroup message request (XREQINFO = XREQZGM)					
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	BITSTRING	1	XZGMFUNC	Function requested:
120	(78)	X'1'	0	XZGLPREQ	"1" pacing request (flush JESXCF data path)
120	(78)	X'2'	0	XZGLPRSP	"2" pacing response
120	(78)	X'3'	0	XZGLMSG	"3" message to log (payload of this message is part of ZGLMSG in \$ZGL starting at ZGMIDX)
121	(79)	BITSTRING	1	XZGMSMBR	Sending member



Table 324. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
122	(7A)	BITSTRING	1	XZGMTMBR	Target member
123	(7B)	BITSTRING	5		Reserved
128	(80)	DBL WORD	8	XZGMTIME	Message timestamp (STCK)
128	(80)	X'88'	0	XZGMPSIZ	"*-XREQ" Length of a pacing message
128	(80)	X'88'	0	XZGMSIZE	"*-XREQ" Length of fixed part of the message request

Table 325. Structure XRECMBRE

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	XRECMBRE	, Member entry
0	(0)	SIGNED	4	XRECMHLD	New value for HOLD
4	(4)	SIGNED	4	XRECMHDR	New value for min DORMANCY
8	(8)	SIGNED	4	XRECMHDR	New value for max DORMANCY
8	(8)	X'C'	0	XRECMESZ	"*-XRECMBRE" Size of member entry

Table 326. Structure XZGLENT

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	XZGLENT	, JQE entry
0	(0)	SIGNED	4	XZGLEJBX	JQE index of a logging job
4	(4)	SIGNED	4	XZGLEJKY	Job key of a logging job
8	(8)	CHARACTER	8	XZGLEJNM	Jobgroup name
8	(8)	X'10'	0	XZGLENSZ	"*-XZGLENT" Size of member entry

Table 327. Structure XREQ

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	XREQ	Back to XREQ
Request CKPT data (XREQINFO = XREQCKPH) Mailbox name = SYSJES\$XSYSBUF This request will pass requested CKPT information and return a data structure with response.					
112	(70)	BITSTRING	1	XCKPREQ	Request type (Same as CKPDREQ)
112	(70)	X'1'	0	XCKPHCTI	"1" Basic CKPT HCT data
113	(71)	BITSTRING	3		Reserved
116	(74)	SIGNED	4	(2)	Reserved
124	(7C)	SIGNED	4	XCKPDATA(0)	Start of returned data
Type 1 (HCT data) return data (XCKPHCTI)					
124	(7C)	SIGNED	4	XCKPJBNF	Free job numbers (JNTFRCNT)
128	(80)	SIGNED	4	XCKPLCMN	Local min job # (JNTLCMIN)
132	(84)	SIGNED	4	XCKPLCMX	Local max job # (JNTLCMAX)
136	(88)	SIGNED	4	XCKPJOEF	Free JOE count (JOTFREC)
140	(8C)	SIGNED	4	XCKPBRTF	Free BERT count (BRTPFNUM)
144	(90)	SIGNED	4	XCKPTGF	Free TG count (\$TGFREEB) (on active volumes)
148	(94)	SIGNED	4	XCKPTGIU	In use TG count (on all non-mapped vols)



Table 327. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
152	(98)	SIGNED	4	(8)	Reserved
184	(B8)	SIGNED	2	XCKPHCTO	Offset to CKPTed HCT info
186	(BA)	SIGNED	2	XCKPHCTL	Length of CKPTed HCT info
188	(BC)	SIGNED	2	XCKPQSEO	Offset to QSE info
190	(BE)	SIGNED	2	XCKPQSEL	Length of a QSE
192	(C0)	SIGNED	2	XCKPQSEN	Number of QSEs
194	(C2)	SIGNED	2	XCKPKITO	Offset to KIT info
196	(C4)	SIGNED	2	XCKPKITL	Length of a KIT
198	(C6)	SIGNED	2	XCKPKITN	Number of KITs

The following maps the fields returned in the usage entry tables for JOEs, BERTs, and ZJCs

198	(C6)	X'0'	0	XCKUSGNA	"0,8,C'C'" Usage entry name
198	(C6)	X'8'	0	XCKUSGCT	"8,4,C'F'" Usage entry count
198	(C6)	X'C'	0	XCKUSGCB	"12,4,C'F'" Usage entry CB count (BERTs/JQEs/TGs only)
198	(C6)	X'C'	0	XCKUSGSZ	"12" Normal entry size
198	(C6)	X'10'	0	XCKUSBSZ	"16" Full entry size (for BERTs, JQEs, and TGs)
200	(C8)	SIGNED	2	XCKPJQUO	Offset to JQE usage info
202	(CA)	SIGNED	2	XCKPJQUL	Length of a JQE usage entry
204	(CC)	SIGNED	2	XCKPJQUN	Number of JQE usage blocks
206	(CE)	SIGNED	2	XCKPJOUO	Offset to JOE usage info
208	(D0)	SIGNED	2	XCKPJOUJ	Length of a JOE usage entry
210	(D2)	SIGNED	2	XCKPJOUN	Number of JOE usage blocks
212	(D4)	SIGNED	2	XCKPZJCO	Offset to ZJC usage info
214	(D6)	SIGNED	2	XCKPZJCL	Length of a ZJC usage entry
216	(D8)	SIGNED	2	XCKPZJCN	Number of ZJC usage entry
218	(DA)	SIGNED	2	XCKPBRT0	Offset to BERT usage info
220	(DC)	SIGNED	2	XCKPBRTL	Length of a BERT use entry
222	(DE)	SIGNED	2	XCKPBRTN	Number of BERT usage entry
224	(E0)	SIGNED	4	XCKP1DAT(0)	Start of variable data

Table 328. Cross Reference for \$XREQ

Name	Offset	Hex Tag
XCKPBRTF	8C	
XCKPBRTL	DC	
XCKPBRTN	DE	
XCKPBRT0	DA	
XCKPDATA	7C	
XCKPHCTI	70	1
XCKPHCTL	BA	
XCKPHCTO	B8	
XCKPJBNF	7C	
XCKPJ0EF	88	



Table 328. Cross Reference for \$XREQ (continued)

Name	Offset	Hex Tag
XCKPJ0UL	D0	
XCKPJ0UN	D2	
XCKPJ0U0	CE	
XCKPJQUL	CA	
XCKPJQUN	CC	
XCKPJQU0	C8	
XCKPKITL	C4	
XCKPKITN	C6	
XCKPKITO	C2	
XCKPLCMN	80	
XCKPLCMX	84	
XCKPQSEL	BE	
XCKPQSEN	C0	
XCKPQSEO	BC	
XCKPREQ	70	
XCKPTGF	90	
XCKPTGIU	94	
XCKPZJCL	D6	
XCKPZJCN	D8	
XCKPZJCO	D4	
XCKP1DAT	E0	
XCKUSBSZ	C6	10
XCKUSGCB	C6	C
XCKUSGCT	C6	8
XCKUSGNA	C6	0
XCKUSGSZ	C6	C
XCLSBLLN	81	84
XCLSBLW	81	21
XCLSNAME	78	
XCLSTCLS	80	1
XCLSTGRP	80	2
XCLSTYPE	80	
XDLSADDH	80	1
XDLSFLG1	81	
XDLSFUNC	80	
XDLSJBKY	7C	
XDLSJBX	78	
XDLSMBR	88	
XDLSIZE	89	98



Table 328. Cross Reference for \$XREQ (continued)

Name	Offset	Hex Tag
XDLSTIME	82	
XDLS1UTC	81	80
XREADORM	8C	
XREAHOLD	88	
XREASID	8C	
XREBTOFF	70	40
XRECBCL	84	
XRECKRC	90	
XRECKRI	8C	
XRECFHLD	88	
XRECMBRD	A0	
XRECMBRE	0	
XRECMDEL	9E	
XRECMDEN	9C	
XRECMESZ	8	C
XRECMHDR	8	
XRECMHLD	0	
XRECMLDR	4	
XRECOPT	80	3
XRECREQ	80	
XRECSEQN	82	
XRECSIZE	A0	220
XRECSTOP	80	2
XRECSTRT	80	1
XRECTIME	78	
XREDSKY	88	
XREEXTNO	82	
XREFLAG	70	
XREGTBF	78	
XREIBFLN	80	D0
XREICLAS	78	
XREIFLGR	73	
XREIFLG1	71	
XREIPRCF	70	
XREIREST	74	
XREISTAT	72	
XREISTKN	80	
XREJCONC	81	8
XREJDATA	78	



Table 328. Cross Reference for \$XREQ (continued)

Name	Offset	Hex Tag
XREJFLG1	84	
XREJKEY	84	
XREJMDBL	C8	58
XREJMDF1	81	
XREJMDJA	7C	
XREJMDJC	84	
XREJMDJQ	78	
XREJMDMN	C4	
XREJMDRL	D8	DC
XREJMDTA	D0	
XREJMDTY	80	
XREJMD1R	81	30
XREJMD1S	81	80
XREJMD1X	81	40
XREJMRF1	81	
XREJMRIC	D4	
XREJMRJA	7C	
XREJMRJC	84	
XREJMRJQ	78	
XREJMRMN	C4	
XREJMRRC	D0	
XREJMRTY	80	
XREJMR1R	81	10
XREJMR1S	81	80
XREJMR1U	81	20
XREJMR1X	81	40
XREJOECR	7C	
XREJOELN	85	88
XREJOELW	85	22
XREJOEOF	78	
XREJOEPR	80	
XREJ1CRT	84	20
XREJ1KPJ	84	C0
XREJ1PST	84	80
XREMELEN	74	7C
XREMEMBN	8E	
XREMEMBR	70	
XREOVRMP	70	80
XREPBLN	E4	E8



Table 328. Cross Reference for \$XREQ (continued)

Name	Offset	Hex Tag
XREPBLLW	E4	3A
XREPCNID	E4	
XREPDATA	78	
XREPDATL	E4	70
XREPERCE	78	
XREPHLEN	84	85
XREPJOB	78	
XREPMMSG	7E	
XREP138	7C	
XREQ	0	
XREQ	0	
XREQBASE	70	70
XREQCKPH	6	4
XREQCKTR	6	B
XREQCNCL	6	3
XREQDATA	70	
XREQDATO	18	
XREQDCLS	6	9
XREQDLS	6	C
XREQEND	6	5
XREQFLG1	8F	
XREQFRC	C	
XREQID	0	E7D9C5D8
XREQINFO	6	
XREQIOLN	74	7C
XREQIOPE	6	1
XREQITDT	6	2
XREQJMOD	6	A
XREQJOE	6	3
XREQJQSP	6	8
XREQLEN	1C	
XREQMGSW	6	3
XREQMSG	5	D9
XREQMXRQ	6	F
XREQPHA1	6	1
XREQPHA2	6	2
XREQPJOE	6	4
XREQPXEQ	6	5
XREQRESP	5	C1



Table 328. Cross Reference for \$XREQ (continued)

Name	Offset	Hex Tag
XREQRLOG	6	6
XREQRSLR	6	F
XREQSCAN	6	1
XREQSPIN	6	7
XREQSTAT	6	2
XREQSTAU	6	4
XREQTMOF	6	D
XREQTOKN	8	
XREQTYPE	5	
XREQVER	4	
XREQVERN	4	1
XREQXBUF	6	1
XREQZGL	6	E
XREQZGM	6	4
XRERBLLN	80	84
XRERBLLW	80	21
XRERDATA	80	
XRERDVER	78	
XRERFLGR	7A	
XRERLCHN	80	
XRERLEN	87	88
XRERLMVS	78	
XRERNCAN	85	80
XREROINJ	70	
XREROINW	74	
XRERREST	7C	
XRERSFLG	85	
XRERVSER	79	
XRERXTNO	7F	
XRESCADA	78	
XRESCARC	70	
XRESCAST	78	
XRESCHLD	F0	
XRESCKLV	90	
XRESCKRT	E8	
XRESCTDL	E6	78
XRESCTSN	E4	
XRESDSM	98	
XRESEMGL	EC	80



Table 328. Cross Reference for \$XREQ (continued)

Name	Offset	Hex Tag
XRESEMGN	EC	
XRESFLA1	74	
XRESFLG1	96	
XRESFLG2	97	
XRESHDRM	E0	
XRESHOLD	D8	
XRESLDRM	DC	
XRESOHV	D0	
XRESPAD	7C	
XRESPAIN	C8	
XRESPNRT	CC	
XRESQSMX	D4	
XRESRBP	78	
XRESTGSZ	94	
XRESTLEN	F4	104
XRESTNAM	78	
XRESTRT	74	
XRESTTIM	80	
XRES1END	96	4
XRES1EX1	96	20
XRES1EX2	96	10
XRES1FW	96	80
XRES1RSN	96	8
XRES1TCM	96	40
XRETCAN	78	
XRETCBK	7C	
XRETCFW	78	
XRETCN2	80	
XRETDATA	98	
XRETIOTY	74	
XRETLBM	78	
XRETLBMR	80	
XRETREAD	74	1
XRETTLEN	90	98
XRETTOKN	88	
XRETTAC	70	
XRETWRIT	74	2
XREVOLSR	7C	
XREWBFLN	78	80



Table 328. Cross Reference for \$XREQ (continued)

Name	Offset	Hex Tag
XREWDASI	70	
XREWMGID	74	
XREXBFLN	8F	90
XREXDATA	78	
XREXDLEN	74	
XREXEQLN	70	78
XREXEQLW	70	1E
XREXRBA	78	
XREXROBJ	90	
XREZPSEQ	C4	
XRE2ALRT	97	40
XRE2CRIT	97	10
XRE2NTCE	97	20
XRE2TRCK	97	80
XRMEMACK	74	
XRMIGTR	83	
XRMIGTSK	86	0
XRRLBLLN	8C	98
XRRLCART	84	
XRRLCNID	80	
XRRLJBKY	7C	
XRRLJOB	78	
XRTLBM	84	
XRTLBMWR	84	80
XSPNBLLN	78	7C
XSPNBLLW	78	1F
XSPNJOB	78	
XSRBREQL	8F	18
XTMOFFST	80	
XTMOMBR	84	
XTMOSIZE	85	88
XTMOTIME	78	
XZGLARRL	7E	
XZGLARRN	7C	
XZGLARRO	7A	
XZGLEJBX	0	
XZGLEJKY	4	
XZGLEJNM	8	
XZGLENSZ	8	10



Table 328. Cross Reference for \$XREQ (continued)

Name	Offset	Hex Tag
XZGLENT	0	
XZGLFLG1	80	
XZGLFUNC	78	
XZGLMSG	78	3
XZGLMBR	79	
XZGLPREQ	78	1
XZGLPRSP	78	2
XZGLSIZE	81	88
XZGLTOVR	78	1
XZGL10UQ	80	40
XZGL1PGQ	80	20
XZGL1POU	80	10
XZGL1PPG	80	8
XZGL1STQ	80	80
XZGMFUNC	78	
XZGMPSIZ	80	88
XZGMSIZE	80	88
XZGMSMBR	79	
XZGMTIME	80	
XZGMTMBR	7A	

## \$XRQ information

### \$XRQ programming interface information

\$XRQ is a programming interface.

### \$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 mapping

Table 329. Structure XRQ

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

Table 330. Cross Reference for \$XRQ

Name	Offset	Hex Tag
XRQ	0	
XRQDOWN	9	80
XRQGEPL	18	
XRQGEPUS	F4	
XRQID	0	
XRQJXCF	9	



Table 330. Cross Reference for \$XRQ (continued)

Name	Offset	Hex Tag
XRQMEMB	A	
XRQNEXT	10	
XRQSID	C	
XRQSIZE	118	11C
XRQTYMEM	8	40
XRQTYPE	8	
XRQTYSG	8	80
XRQTYUSR	8	20
XRQUP	9	40
XRQVNUM	4	2
XRQVRSN	4	

## \$ZJC information

### \$ZJC programming interface information

\$ZJC is a programming interface.

### \$ZJC heading information

<b>Common name:</b>	Zone Job Container and related structures.
<b>Macro ID:</b>	\$ZJC
<b>DSECT name:</b>	ZJC
<b>Owning component:</b>	JES2 (SC1BH)
<b>Eye-catcher ID:</b>	The pool (CTENT) of ZJCs is preceded by an eyecatcher '**ZJC POOL**' in the header of the pool. Offset: HDPID-HDP Length: 13
<b>Storage attributes:</b>	Subpool: 0 for the JES2 main copy; dataspace for the checkpoint version copy. Key: 1 Residency: The ZJC is a checkpoint resident control block. Virtual storage is anywhere (below or above 16M) in the JES2 address space for the JES2 main copy.
<b>Size:</b>	The current size of a ZJC as of the most recent version is ZJCSIZE. However, the size of a ZJC in the checkpoint is the \$ZJCLEN field in \$HCT. Always use \$ZJCLEN for any calculations!



**Created by:**

During the build of a network, storage is temporarily obtained in 64-bit common storage.  
 Once created, the network resides in JES2 private checkpoint storage obtained by HASPIRDA.  
 For the checkpoint versions, storage is obtained by HASPCKVR

**Pointed to by:****Serialization:**

The JES2 checkpoint (\$QSUSE).

**Function:**

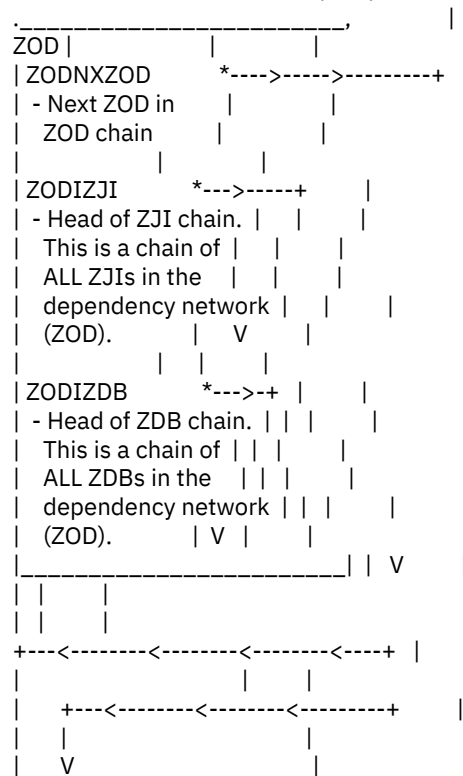
The Zone Job Container (ZJC) is the base object in the ZJC CTENT. Inside of each ZJC can be a Zone Object Definition (ZOD), a Zone Job Identifier (ZJI), or a Zone Job Dependency Block (ZDB).

The ZJCs are checkpointed control blocks. There are at least two copies of each ZJC in storage ( the actual and I/O copies of the ckpt, in subpool 0 ). There also may be 1 or more versions in the ckpt versions dataspace.

The following diagram define the linkages between the various objects.

- A chain of Zone Object Definition (ZOD) objects. Each Zone Object Definition (ZOD) is the base object that describes a job zone.
- Zone Job Identifier (ZJI) objects are chained off each Zone Object Definition (ZOD) object. Each ZJI describes a job within the job zone.
- Finally, Zone Dependency Blocks (ZDBs) are chained off of each Zone Job Identifier (ZJI). Each ZDB describes a dependency between two jobs in the zone.
- NOTE: All 'pointers' in the diagrams below are really ZJC CTENT indexes.

ZONE OBJECT DEFINITION (ZOD) : <-----+ |



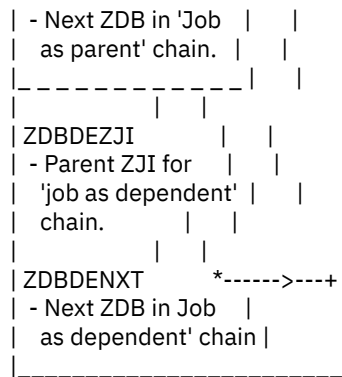


```

| .-----, | |
| ZJI | | |
| | ZJIPZOD *--->---+
| | - Parent ZOD | |
| | ... | |
| | ZJINXZJI *--->---+
V | - Next ZJI in ZJI | |
| | chain. This is a | |
| | chain of ALL ZJIs | |
| | in the dependency | |
| | network (ZOD). | |
| | ... | |
| | ZJINXCON *--->---+
V | - Next ZJI in | |
| | concurrent ZJI chain | |
| | ... | |
| | ZJIJPZDB *--->+ |
| | - Head of 'Job as | |
| | parent' ZDB chain | |
| | | |
V | ZJIJDZDB *--->+ |
| | - Head of 'Job as | |
| | dependent' ZDB | |
| | chain. | |
| | | |
| |----- V |
| | |
V | +---<---<---<---+ |
| | |
| V |
+----->ZONE DEPENDENCY BLOCK (ZDB): <---+ |
.-----, | |
ZDB | | |
| ZDBNXZDB *--->---+ |
| - Next ZDB in ZDB | |
| chain. This is a | |
| chain of ALL ZDBs | |
| in the dependency | |
| network (ZOD). | |
|----- | |
| | |
| ZDBPRZJI *----->---|-->+
| | |
| - Parent ZJI for | |
| 'job as parent' | |
| chain. | |
| | |
| ZDBPRNXT *----->---+

```





## \$ZJC mapping

Table 331. Structure ZJC

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ZJC	Zone Job Container DSECT.
0	(0)	X'1'	0	ZJCVRSN	"1" ZJC control block version
0	(0)	SIGNED	4	ZJCNFREI	Index of next ZJC on free chain (head of free chain is \$ZJCFREI in \$HCT).
4	(4)	SIGNED	4	ZJCINDEX	Index of this ZJC in the ZJC CTENT.
Embedded object types :					
8	(8)	BITSTRING	1	ZJCTYPE	Embedded object type.
		.... ....		ZJCT_FRE	"X'00'" The ZJC is unallocated and is on the free chain.
		.... ...1		ZJCT_ZOD	"X'01'" ZJC contains a Zone Object Definition (ZOD).
		.... ...1.		ZJCT_ZJI	"X'02'" ZJC contains a Zone Job Identifier (ZJI).
		.... ...11		ZJCT_ZDB	"X'03'" ZJC contains a Zone Dependency Block (ZDB).
9	(9)	BITSTRING	3	ZJCERSVD1	Reserved
Beginning of embedded object. The object can be determined from ZJCTYPE (see above). NOTE: - The current maximum size of an embedded object is defined by \$ZJC0BJM.					
9	(9)	X'94'	0	\$ZJC0BJM	"148" Max embedded object size
12	(C)	CHARACTER	1	ZJC0BJCT	Start of embedded object
12	(C)	X'A0'	0	ZJCSIZE	"*-ZJC" Size of the Zone Job Container (ZJC) object.

Table 332. Structure ZJC

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ZJC	, ORG to the ZJC embedded
12	(C)	SIGNED	4	ZOD(0)	Zone Object Definition.



Table 332. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Linkage Pointers/Indexes : NOTE: - When the dependency network is being built, the pointers are used. The network is then instantiated in the checkpoint and the pointers are changed to indexes. - ZODNXZOD is a single chain of ALL ZOD objects. The queue head is \$ZODHEAD in the \$HCT. - ZODIZJI is a single chain through ALL ZJI objects. Subsequent objects are chained via the ZJINXZJI field. - ZODIZDB is a single chain through ALL ZDB objects. Subsequent objects are chained via the ZJINXZJI field.					
12	(C)	BITSTRING	4	ZODTSMP2	Timestamp used to measure time ZOD is in pending or suspended state.
16	(10)	ADDRESS	8	ZODNXZOD	Ptr/Index of next Zone Object Definition (ZOD).
24	(18)	ADDRESS	8	ZODIZJI	Ptr/Index of first object in Zone Job Identifier (ZJI) chain. Subsequent ZJIs are chained via the ZJINXZJI field.
32	(20)	ADDRESS	8	ZODIZDB	Ptr/Index of first object in Zone Dependency Block (ZDB) chain. Subsequent ZDBs are chained via the ZDBNXZDB field.
ZJI counts - used in some cases to avoid a scan of ZODIZJI chain.					
40	(28)	SIGNED	2	ZODNZJI	Number of ZJIs in ZODIZJI chain ( set when built ).
42	(2A)	SIGNED	2	ZODNRZJI	Number of ZJIs in ZODIZJI that are associated with a job ( maintained at runtime ).
44	(2C)	SIGNED	2	ZODNCZJI	Number of ZJIs in ZODIZJI that are COMPLETE or FLUSHED ( maintained at runtime ).
46	(2E)	SIGNED	2	ZODNPURG	Number of ZJIs in ZODIZJI that are PURGED or FLUSHED ( maintained at runtime ).
Timestamp - Set when we checkpoint the ZOD. NOTE: - Occupies the same 8 bytes as ZODBLDWK. This is OK because the ZODTSMP is only used in checkpointed ZODs and ZODBLDWK is only used for in-memory (build time) ZODs.					
48	(30)	DBL WORD	8	ZODTSMP	USED AT RUNTIME : Time when the job zone became 'active' (checkpointed).
Pointer to ZOD build-time work area used to track Jobsets, unresolved dependencies, unresolved concurrent dependencies, etc... NOTE: - Occupies the same 8 bytes as ZODTSMP. This is OK because the ZODTSMP is only used in checkpointed ZODs and ZODBLDWK is only used for in-memory (build time) ZODs. - See structure JDBLDWRK in HASCJZDN to see what this pointer addresses.					
48	(30)	X'30'	0	ZODBLDWK	"ZODTSMP,8,C'D'" USED AT BUILD TIME: Pointer to temporary ZOD build-time work area.
Zone Object identification :					
56	(38)	CHARACTER	8	ZODNAME	Job Zone name.



Table 332. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
64	(40)	SIGNED	4	ZODLJNUM	Job number and job key of
68	(44)	BITSTRING	4	ZODLJKEY	associated log job JQE.
Job Zone Error expression : - When one of the jobs in the Job Zone results in an error, the ERROR= expression in ZODERREX is evaluated with the job's error information to determine if the job zone should stopped, suspended, or flushed. A boolean result is produced. - If boolean result is TRUE, the ONERROR= action (ZODONERR) is taken (see below). ZODERRA is set to the ZODONERR value. - If boolean result is FALSE, no action is taken.					
72	(48)	BITSTRING	64	ZODERREX	ERROR= RPN (Reverse Polish Notation) list Evaluated when one of the jobs in the network is in error.
136	(88)	BITSTRING	1	ZODERREL	ERROR= actual size of RPN (Reverse polish notation) list
137	(89)	BITSTRING	1	ZODONERR	ONERROR= value. This is set to one of the ZODERRA values (STOP, SUSPEND, or FLUSH) when the ZOD is built.
137	(89)	X'40'	0	ZODERMAX	"64" ERROR= RPN list max size.
Job Zone error action : - ZODERRA is set to the value of the ZODONERR ONERROR= value (STOP/SUSPEND/FLUSH) when : o The evaluation of the ZODERREX ERROR= expression is TRUE ( see ZODERREX description above ). o The result of a dependency ZDBWHENT WHEN= expression is FAIL ( see ZDBWHENT description below ). - The action taken in each case is : o If ZODERRA = ZODENOER (NOT IN ERROR): - The ZOD does not currently have an error condition. The network is running normally. o If ZODERRA = ZODESTOP (STOP) : - The ZOD is to be stopped. No new jobs in the network are allowed to run. Currently active jobs in the network are allowed to complete. o If ZODERRA = ZODESUSP (SUSPEND) : - The ZOD is to be suspended. New jobs that have their dependencies satisfied are allowed to continue. Jobs determined to be in error are considered to have NOT run. These jobs can be resubmitted, and the error state is cleared if they run successfully. o If ZODERRA = ZODEFLSH (FLUSH) : - The ZOD is to be flushed. Currently executing jobs are cancelled, and no new jobs are started. Once there are no longer any jobs running, the network is marked complete.					
138	(8A)	BITSTRING	1	ZODERRA	ZOD error action.
	.... ..			ZODENOER	"X'00'" Error Action = NOT IN ERROR
	.... ..1			ZODESTOP	"X'01'" Error Action = STOP
	.... ..1.			ZODESUSP	"X'02'" Error Action = SUSPEND
	.... ..11			ZODEFLSH	"X'03'" Error Action = FLUSH
Zone Object Status :					
139	(8B)	BITSTRING	1	ZODSTAT	Status of the Job Zone
	.... ..			ZOD_PEND	"X'00'" Job Zone Stat = PENDING
	.... ..1			ZOD_ACTI	"X'01'" Job Zone Stat = ACTIVE,INIT
	.... ..1.			ZOD_ACT	"X'02'" Job Zone Stat = ACTIVE
	.... ..11			ZOD_SUSI	"X'03'" Job Zone Stat = SUSPENDING
	.... ..1..			ZOD_SUSD	"X'04'" Job Zone Stat = SUSPENDED



Table 332. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1.1		ZOD_HELD	"X'05'" Job Zone Stat = HELD
		.... .11.		ZOD_FLSH	"X'06'" Job Zone Stat = FLUSHING
		.... .111		ZOD_CANI	"X'07'" Job Zone Stat = CANCELLING
		.... 1...		ZOD_COMP	"X'08'" Job Zone Stat = COMPLETE
		1111 1111		ZOD_NOTF	"X'FF'" Job Zone Stat = ZOD_NOT_FND
Indicators :					
140	(8C)	BITSTRING	1	ZODJQEF3	JQEFLAG3 (job type) of associated logging job.
141	(8D)	BITSTRING	1		Reserved
ZJI 'in error' list head and count :					
144	(90)	SIGNED	4	ZODERZJI	Ptr/Index of first ZJI that that is curently 'in error'. Subsequent ZJIs are chained via the ZJIERZJI field. ( maintained at runtime )
148	(94)	SIGNED	2	ZODNUMER	Number of ZJIs in the ZODERZJI chain. ( maintained at runtime )
150	(96)	BITSTRING	1	ZODFLAG1	ZOD indicators:
		1... ....		ZOD1RGBL	"B'10000000'" Registration blocked
		.1.. ....		ZOD1ORIG	"B'01000000'" ZOD origin indicator : 0 = JOBGROUP ZOD origin. 1 = / NET ZOD origin.
		..1. ....		ZOD1NETC	"B'00100000'" If this is a / NET ZOD (ZOD1ORIG=ON), and this bit is ON, the logging job corresponging to this ZOD has not been created yet.
		...1 ....		ZOD1CANF	"B'00010000'" JOBGROUP CANCEL failed to cancel all jobs (\$JCAN failed for at least 1 job)
151	(97)	BITSTRING	1	ZODRSVD	Reserved area (length of rest of ZJC object area)
151	(97)	X'9'	0	ZODRSVSZ	"*-ZODRSVD" Size of ZODRSVD.
151	(97)	X'A0'	0	ZODSIZE	"*-ZJC" Size of entire Zone Object Definition (ZOD) object - including ZJC header.

Table 333. Structure ZJC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ZJC	, ORG to the ZJC embedded
12	(C)	SIGNED	4	ZJI(0)	Job Zone Identifier object.
Linkage Pointers/Indexes : NOTE: - When the dependency network is being built, the pointers are used. The network is then instantiated in the checkpoint and the pointers are changed to indexes.					
16	(10)	ADDRESS	8	ZJINXZJI	Ptr/Index of next ZJI in list of ALL ZJI objects. The chain head is field ZODIZJI in the ZOD object
24	(18)	ADDRESS	8	ZJIPZOD	Ptr/Index of the 'parent' Zone Job Definition (ZOD) object.
32	(20)	ADDRESS	8	ZJIJPZDB	Ptr/Index of first Zone Dependency Block (ZDB) in 'Job as Parent' chain.



Table 333. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	ADDRESS	8	ZJIJDZDB	Ptr/Index of first Zone Dependency Block (ZDB) in 'Job as Dependent' chain.
48	(30)	ADDRESS	8	ZJINXCON	Ptr/Index of next concurrent Zone Job Identifier (ZJI) object.
Build only Linkage Pointers/Indexes :					
56	(38)	ADDRESS	8	ZJINJSET	Ptr/Index of next Zone Job Identifier (ZJI) object. in a JOBSET chain.
Associated job information :					
64	(40)	CHARACTER	8	ZJIJNAME	Job name.
72	(48)	SIGNED	4	ZJIJBNUM	Job number (JQEJBNUM) of associated job ( zero if no JQE is registered to this ZJI yet ).
76	(4C)	BITSTRING	4	ZJIJBKEY	Job key (JQEJBKEY) of associated job ( zero if no JQE is registered to this ZJI yet ).
Associated jobset information (if any) :					
80	(50)	CHARACTER	8	ZJIJSNAM	Associated jobset name, if any ( zero if none )
Indicators :					
88	(58)	BITSTRING	1	ZJIFLAG1	General Indicators :
		1... ..		ZJI1ELIG	"B'10000000" Job Eligibility Indicator : 0 = Job not eligible to be selected. 1 = Job eligible to be selected.
		.1.. ..		ZJI1FACT	"B'01000000" Flush Action Indicator : 0 = ALLFLUSH 1 = ANYFLUSH
		..1. ....		ZJI1PURG	"B'00100000" Purge indicator : 0 = The ZJI has not been purged. 1 = The ZJI has been purged.
		...1 ....		ZJI1RESU	"B'00010000" Resubmit indicator : 0 = The associated job is not a resubmit. 1 = The associated job is a resubmit
		.... 1...		ZJI1JREG	"B'00001000" Register indicator : 0 = JQE was never registered 1 = JQE was at some time registered
		.... .1..		ZJI1STRT	"B'00000100" Warm start indicator : Only pertinent during warm start. 0 = Corresponding job within concurrent set found not re-startable 1 = Corresponding job within concurrent set found to be re-startable
		.... ..1.		ZJI1DEFE	"B'00000010" Warm start indicator : Only pertinent during warm start. 0 = Warm start has not been deferred for this job. 1 = Warm start has been deferred for this start
		.... ...1		ZJI1ORIG	"B'00000001" Origin Indicator : 0 = JOBGROUP ZJI origin. 1 = / NET ZJI origin.
89	(59)	BITSTRING	1	ZJIJQEF3	JQEFLAG3 (job type) of associated job. Only valid when a JQE has been registered to this ZJI (ZJIJBNUM is not zero).



Table 333. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Job completion status :					
90	(5A)	BITSTRING	1	ZJISTAT	Zone Job Identifier status
		.... ....		ZJI_PEND	"X'00'" ZJI Status = PENDING
		.... ...1		ZJI_ACTI	"X'01'" ZJI Status = ACTIVE
		.... ..1.		ZJI_COMP	"X'02'" ZJI Status = COMPLETE
		.... ...11		ZJI_FLSH	"X'03'" ZJI Status = FLUSHED
		.... .1..		ZJI_INER	"X'04'" ZJI Status = IN_ERROR
Next in ZJI 'in error' list :					
92	(5C)	SIGNED	4	ZJIERZJI	Ptr/Index of next ZJI that is currently 'in error'. The chain head is field ZODERZJI in the ZOD object.
Logging job info. Note that this info also exists in the ZOD (ZODLJNUM/ZODLJKEY) but is also put here for convenience.					
96	(60)	SIGNED	4	ZJILJNUM	Job number and job key of
100	(64)	BITSTRING	4	ZJILJKEY	associated log job JQE.
<p>'Concurrent Set Primary Job' processing fields  THE FOLLOWING FIELDS ARE ONLY RELEVANT IF THIS ZJI  IS THE 'PRIMARY ZJI' IN A CONCURRENT SET ( THAT IS,  THE ZJI2JGCM BIT IS SET ).</p> <ul style="list-style-type: none"> <li>o ZJIMCJTS - 'Primary Concurrent Job' Timestamp : <ul style="list-style-type: none"> <li>- Set when WLM tells us that a 'concurrent set' of jobs CANNOT be processed. When this happens the 'primary ZJI' will have this timestamp set and the corresponding JQE will reside on the \$SETUP queue. In effect, the entire set will 'wait' until the MISC PCE, as part of it's normal processing, makes the decision whether or not to retry. It does this by simply comparing this value to the current time to see if a pre-determined interval has been exceeded. If so, WLM is queried again to see what (if any) member the set can execute on.</li> </ul> </li> <li>o ZJIMCMID - 'concurrent set' job execution member. <ul style="list-style-type: none"> <li>- The member that WLM informed us where all jobs in the 'concurrent set' can execute. A \$SJ request was sent to this member and has not yet been serviced. MISC performs recovery processing should this member go down. A ZERO if not assigned yet or no qualified member currently exists.</li> </ul> </li> <li>o ZJI2JGCM - 'concurrent set' primary job indicator. <ul style="list-style-type: none"> <li>- If ON, this ZJI informs us when all jobs in the 'concurrent set' can execute.</li> </ul> </li> <li>o ZJI2JWLM - Concurrent job was sent to WLM. <ul style="list-style-type: none"> <li>- If ON, this job associated with this ZJI (which is part of a 'concurrent set'), has a WLM initiator requested (via IWMBREQ ), to be selected by job id.</li> </ul> </li> <li>o ZJIJSRET - Concurrent Set selection failure return code (ZERO IF NONE). <ul style="list-style-type: none"> <li>- If set, selection processing rejected the set</li> </ul> </li> </ul>					
and this return code denotes why. Used by internal processing to generate messages, etc..					
104	(68)	DBL WORD	8	ZJIMCJTS	USED AT RUNTIME : Time when the 'primary concurrent job' was placed back on \$SETUP.
112	(70)	BITSTRING	1	ZJIMCMID	USED AT RUNTIME : WLM-assigned member where the 'concurrent set' can execute. A \$SJ has been sent to this member - MISC performs recovery processing.



Table 333. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
113	(71)	BITSTRING	1	ZJIFLAG2	Concurrent Set Indicators :
		1... ....		ZJI2JGCM	"B'10000000" Concurrent set Primary ZJI: 1 = ZJI is the primary ZJI in a concurrent set of jobs ( the set is defined by the ZJINXCON chain ).
		.1.. ....		ZJI2JWLM	"B'01000000" Concurrent job sent to WLM: 1 = The associated job was sent to WLM via a IWMBREQ ( select by job ID ) request.
		..1. ....		ZJI2JCAN	"B'00100000" Concurrent job set cancel: 1 = The associated job was scheduled to be cancelled as part of a concurrent set cancel
		...1 ....		ZJI2POST	"B'00010000" Corresponding job is in post execution
		.... 1...		ZJI2ABND	"B'00001000" Concurrent job set abend: 1 = The associated job abend represents the set
114	(72)	BITSTRING	1	ZJIJSRET	Saved 'return code' that denotes why this job set cannot execute (ZERO IF NONE). Used by internal processing to generate messages. See routine JDNPCON in HASCJZDN and relevant \$CONSE__ codes in \$ZJC.
<p>'Concurrent Set Job' processing fields :</p> <p>THE FOLLOWING FIELDS ARE ONLY RELEVANT IF THIS ZJI IS A JOB IN A CONCURRENT SET ( THAT IS, THE ZJINXCON CHAIN IS SET ).</p> <ul style="list-style-type: none"> <li>o ZJISTOK/ZJIWSCN - Service class name and token.</li> <li>- Set when a job in a concurrent set is initially registered. We initially 'force' the service class of ALL jobs in the set to the class of the first job to be registered. As a side effect, we also save the service class/token here in the ZJI.</li> </ul>					
115	(73)	BITSTRING	1	ZJISYSID	System ID of where associated concurrent WLM initiators were scheduled via \$DCONSET and IWMBREQ.
116	(74)	BITSTRING	1	ZJIFLAG3	More indicators:
		1... ....		ZJI3TSRV	"B'10000000" For jobs in concurrent set service class was set by operator
Indicators :					
117	(75)	BITSTRING	1	ZJIFLAG4	More indicators:
		1... ....		ZJI4TCAN	"B'10000000" For jobs in / NET who have been \$C/\$P
		.1.. ....		ZJI4TMVS	"B'01000000" For jobs in / NET who have been MVS Canceled
118	(76)	BITSTRING	2		Reserved
120	(78)	CHARACTER	8	ZJIWSCN	Service class Queue Name
<p>JQXMAXRC value the last time an associated job 'completed'.</p> <p>- NOTES : - Could also be a default MAXRC value if the job was flushed and never ran.</p>					
128	(80)	BITSTRING	4	ZJIMAXRC	MAXRC of associated 'completed' job ( or default MAXRC if the job was flushed ).
132	(84)	SIGNED	4	ZJIMASZJ	Ptr/Index of Primary ZJI if this ZJI contained within a concurrent set.



Table 333. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>This section is only defined when the associated job is involved in a / NET dependency network.  NOTE: - These fields are propagated to the ZJI from the JQA that corresponds to this job  Field propagation is as follows :</p> <ul style="list-style-type: none"> <li>o JDNNHOLD --&gt; JQAOHOLD --&gt; ZJICHOLD</li> <li>o JDNRELID --&gt; JQARELID --&gt; ZJIRELID</li> <li>o JDNRELJB --&gt; JQARELJB --&gt; ZJIRELJB</li> <li>o JDNNORMA --&gt; JQANORMA --&gt; ZJINORMA</li> <li>o JDNABNOR --&gt; JQAABNOR --&gt; ZJIABNOR</li> <li>o JDNABCMP --&gt; JQAABCMP --&gt; ZJIABCMP</li> <li>o JDNNRCMP --&gt; JQANRCMP --&gt; ZJINRCMP</li> <li>o JDNPHOLD --&gt; JQAPHOLD --&gt; ZJIPHOLD</li> </ul>					
136	(88)	SIGNED	2	ZJICHOLD	Current NHOLD=N value. N = The number (0 to 32767) of previous jobs that must complete before releasing job specified on the job card. This is the 'live' value that is decremented as jobs complete ( original value is the JQAOHOLD field ).
138	(8A)	CHARACTER	8	ZJIRELID	NETID value from : NETREL=(NETID,.....)
146	(92)	CHARACTER	8	ZJIRELJB	JOBNAME value from : NETREL=(.....,JOBNAME)
154	(9A)	BITSTRING	1	ZJINORMA	NORMAL=(D,F or R) (See JDNNORMA in \$ZJC)
155	(9B)	BITSTRING	1	ZJIABNOR	ABNORMAL=(D,F or R) (See JDNABNOR in \$ZJC)
156	(9C)	BITSTRING	1	ZJIABCMP	ABCMPI=(KEEP or NOKP) (See JDNABCMPI in \$ZJC)
157	(9D)	BITSTRING	1	ZJINRCMP	NRCMP=(HOLD,NOHO or FLSH) (See JDNNRCMP in \$ZJC)
158	(9E)	BITSTRING	1	ZJIPHOLD	OPHOLD=(NO or YES) (See JDNPHOLD in \$ZJC)
159	(9F)	BITSTRING	1	ZJIRSVD	Reserved area (length of rest of ZJC object area)
159	(9F)	X'1'	0	ZJIRSVSZ	"*-ZJIRSVSD" Size of ZJIRSVSD.
159	(9F)	X'A0'	0	ZJISIZE	"*-ZJC" Size of entire Zone Job Identifier (ZJI) object - including ZJC header.

Table 334. Structure ZJC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ZJC	, ORG to the ZJC embedded
12	(C)	SIGNED	4	ZDB(0)	Zone Dep Block object.
<p>Dependency Status. The dependency can have the following states :</p> <ul style="list-style-type: none"> <li>- UNDEFINED - The ZDB has been created but has not been fully defined. The WHEN= statement cannot be executed until the dependency moves to PENDING.</li> <li>- PENDING - The ZDB is ready to be examined. The WHEN= statement can be executed when the parent job completes or is being flushed.</li> <li>- COMPLETE - The WHEN= statement has been executed and an action has been determined for the dependency ( see ZDBDEPEA ).</li> </ul>					
12	(C)	BITSTRING	1	ZDBSTAT	Zone Dep Block status.
	.... ..			ZDB_PEND	"X'00'" ZDB Status = PENDING
	.... ...1			ZDB_COMP	"X'01'" ZDB Status = COMPLETE



Table 334. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	.... ..1.			ZDB_UDEF	"X'02'" ZDB Status = UNDEFINED
<p>Dependent Job end action :</p> <ul style="list-style-type: none"> <li>- ZDBDEPEA is set to SATISFY/FLUSH/FAIL as the result of evaluating WHEN=/ENDACTION=/OTHERWISE= (see ZDBWHENT and description below) : <ul style="list-style-type: none"> <li>o If ZDBDEPEA = ZDBDSAT (SATISFY) : <ul style="list-style-type: none"> <li>- The dependency is satisfied. The dependent job can run.</li> </ul> </li> <li>o If ZDBDEPEA = ZDBDFLSH (FLUSH) : <ul style="list-style-type: none"> <li>- The dependent job should be flushed.</li> </ul> </li> <li>o If ZDBDEPEA = ZDBDFAIL (FAIL) : <ul style="list-style-type: none"> <li>- The execution zone (ZOD) error action is taken ( see ZODERRA ).</li> </ul> <p>Note that if ANY of the dependencies under a job evaluate to FAIL, NONE of those jobs are run.</p> <ul style="list-style-type: none"> <li>o EXAMPLE: A - If dependency A-&gt;B, A-&gt;C, / \ or A-&gt;D evaluate to FAIL, / \ jobs B/C/D will not run.</li> </ul> <pre>       B C D       </pre> <p>If the network (ZOD) error action is STOP/SUSPEND, job A is put IN ERROR. A resubmit of job A can then be done to evaluate the dependencies again.</p> </li> <li>o If ZDBDEPEA = ZDBDDEFER (DEFER) : <ul style="list-style-type: none"> <li>- The dependent job is NOT run and the dependency stays in a PENDING state. The parent job is put IN ERROR and the network (ZOD) goes into a SUSPENDED state (ZOD_SUSPD) state.</li> </ul> <p>In other words, the dependent job is deferred in anticipation of a resubmit of the parent job.</p> <p>However, other dependencies ARE processed and the dependent jobs of those dependencies may run.</p> <ul style="list-style-type: none"> <li>o EXAMPLE: A - If dependency A-&gt;B is / \ evaluated to DEFER, job B / \ is not run.</li> </ul> <pre>       B C D       </pre> <p>However, dependencies A-&gt;C and A-&gt;D ARE evaluated and may run.</p> <p>Job A is then put IN ERROR and the network (ZOD) is put into a SUSPENDED state. A resubmit of job A can then be done to evaluate any pending dependencies again ( i.e. - A-&gt;B )</p> </li> </ul> </li> </ul>					
13	(D)	BITSTRING	1	ZDBDEPEA	Dependency complete action.
	.... ..			ZDBDSAT	"X'00'" Complete Action = SATISFY
	.... ..1			ZDBDFLSH	"X'01'" Complete Action = FLUSH
	.... ..1.			ZDBDFAIL	"X'02'" Complete Action = FAIL
	.... ..11			ZDBDDEFER	"X'03'" Complete Action = DEFER
14	(E)	BITSTRING	2	ZDBRSVD1	Reserved
<p>Linkage indexes :</p> <p>NOTE: - When the dependency network is being built, the pointers are used. The network is then instantiated in the checkpoint and the pointers are changed to indexes.</p>					
16	(10)	ADDRESS	8	ZDBNXZDB	Ptr/Index of next ZDB in list of ALL ZDB objects. The chain head is field ZODIZDB in the ZOD object
<p>Linkage indexes and info for parent job :</p> <p>NOTE: - When the dependency network is being built, the pointers are used. The network is then instantiated in the checkpoint and the pointers are changed to indexes.</p>					



Table 334. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	CHARACTER	8	ZDBPRNAM	Parent job name.
32	(20)	ADDRESS	8	ZDBPRZJI	Ptr/Index of parent Zone Job Identifier (ZJI) for 'job as parent' chain.
40	(28)	ADDRESS	8	ZDBPRNXT	Ptr/Index of next Zone Dependency Block (ZDB) in 'Job as Parent' chain (could be zero).
Linkage indexes and info for dependent job : NOTE: - When the dependency network is being built, the pointers are used. The network is then instantiated in the checkpoint and the pointers are changed to indexes.					
48	(30)	CHARACTER	8	ZDBDENAM	Dependent job name.
56	(38)	ADDRESS	8	ZDBDEZJI	Ptr/Index of dependent Zone Job Identifier (ZJI) for 'job as dependent' chain.
64	(40)	ADDRESS	8	ZDBDENXT	Ptr/Index of next Zone Dependency Block (ZDB) in 'Job as dependent' chain (could be zero).
WHEN= parent end job boolean expression : - Once the dependency is marked complete ( that is, the parent job has been run/flushed and ZDBSTAT is set to ZDB_COMP ), the WHEN= expression is evaluated with the parent job's return code and/or ABEND code to determine a boolean result. - If boolean result is TRUE, the ENDACTION= action (ZDBENDA) is taken (see below). ZDBDEPEA is set to the ZDBENDA value. - If boolean result is FALSE, the OTHERWISE= action (ZDBOTHA) is taken (see below). ZDBDEPEA is set to the ZDBOTHA value.					
72	(48)	BITSTRING	64	ZDBWHENT	WHEN= text string - Evaluated when the parent job completes.
136	(88)	BITSTRING	1	ZDBWHENL	WHEN= actual size of RPN (Reverse polish notation) list.
137	(89)	BITSTRING	1	ZDBENDA	ENDACTION= value. This is set to one of the ZDBDEPEA values (SATISFY, FLUSH, or FAIL) when the dependency is built. Default is SATISFY
138	(8A)	BITSTRING	1	ZDBOTHA	OTHERWISE= value. This is set to one of the ZDBDEPEA values (SATISFY, FLUSH, or FAIL) when the dependency is built. Default is FLUSH.
138	(8A)	X'40'	0	ZDBWHMAX	"64" WHEN= RPN list max size.
Logging job info. Note that this info also exists in the ZOD (ZODLJNUM/ZODLJKEY) but is also put here for convenience.					
140	(8C)	SIGNED	4	ZDBLJNUM	Job number and job key of
144	(90)	BITSTRING	4	ZDBLJKEY	associated log job JQE.
Indicators :					
148	(94)	BITSTRING	1	ZDBFLAG1	ZDB indicators:
		1... ....		ZDB1DECH	"B'10000000" HOLD count decrement indicator (only applies to / NET networks) 0 = This dependency has not decremented the dependent job's HOLD count (ZJICHOLD) yet. 1 = This dependency has decremented the dependent job's HOLD count (ZJICHOLD).



Table 334. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
149	(95)	BITSTRING	1	ZDBRSVD	Reserved area (length of rest of ZJC object area)
149	(95)	X'B'	0	ZDBRSVSZ	"*-ZDBRSVD" Size of ZDBRSVD.
149	(95)	X'A0'	0	ZDBSIZE	"*-ZJC" Size of entire Zone Dependency) Block (ZDB) object - including ZJC header.

Table 335. Structure JDBLDWRK

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JDBLDWRK	, ZOD build work area.
0	(0)	ADDRESS	8	JDWURCON	Ptr to first dependency (ZDB) in the unresolved concurrent dependency list.
8	(8)	ADDRESS	8	JDWURDEP	Ptr to first dependency (ZDB) in the unresolved dependency list.
16	(10)	ADDRESS	8	JDWCIFST	Ptr to first parent/child pair in the circular dependency resolution array.
24	(18)	ADDRESS	8	JDWCILST	Ptr to last parent/child pair in the circular dependency resolution
32	(20)	SIGNED	4	JDWCIRNM	Number of entries in circular dependency resolution array.
36	(24)	BITSTRING	1	JDWFLAG1	Flag bits.
	1... ....			JDF1JMAX	"B'10000000'" The number of jobs in this ZOD exceeded the defined maximum (\$ZODJNUM).
	.1... ....			JDF1CMAX	"B'01000000'" At least one concurrent set of jobs in this ZOD exceeded the defined maximum (\$CONJNUM).
40	(28)	DBL WORD	8	(0)	Force double word alignment
40	(28)	BITSTRING	0	JDWJBSET(0)	Job set array. An array of JDJSETEL elements (see below).
1576	(628)	BITSTRING	0	JDWUNRER(0)	Unresolved dependency error array. An array of JDWERROR elements (see below).
1832	(728)	BITSTRING	0	JDWDUPER(0)	Duplicate dependency error array. An array of JDWERROR elements (see below).
2088	(828)	BITSTRING	0	JDWCIRER(0)	Circular dependency error array. An array of JDWERROR elements (see below).
2344	(928)	SIGNED	8	JDWSAVR1(16)	64 bit GPR save area 1
2472	(9A8)	SIGNED	8	JDWSAVR2(16)	64 bit GPR save area 2
2600	(A28)	DBL WORD	8	(0)	Force double word alignment
2600	(A28)	BITSTRING	392	JDWWHEN	WHEN= work area
2992	(BB0)	DBL WORD	8	(0)	Force double word alignment
2992	(BB0)	BITSTRING	1	JDWNET	/ NET - definition area



Table 335. Structure JDBLDWRK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>Max sized backout array of ZJC indexes used when inserting a / NET definition ( described by JDWNET and JDNETDEF ) and an error occurs. This array is always terminated by an index of ZERO.</p> <ul style="list-style-type: none"> <li>- One potential ZOD for the NETID (JDNNETID).</li> <li>- One potential ZJI for the parent job (JDNJBNAM).</li> <li>- A potential of one ZJI and one ZDB for each item in the release array (JDNELNUM).</li> <li>- One for a zero 'array terminator' for the worst case scenario when all array entrires are used.</li> </ul> <p>o For example, for this JDNETDEF :</p> <ul style="list-style-type: none"> <li>- JDNNETID = MYNET</li> <li>- JDNJBNAM = JOBA</li> <li>- JDNRELAR = JOBB,JOBC,JOBD</li> </ul> <p>The following would potentially be inserted if no objects currently exist :</p> <ul style="list-style-type: none"> <li>- MYNET(ZOD) : JOBA(ZJI)</li> </ul> <pre>       /  \  \      /    \  \     /      \  \    /        \  \   /          \  \  /            \  \ /              \  \ (ZDB)          \  \  /  \          \  \ /    \          \  \ /      \          \  \ JOBB(ZJI) JOBC(ZJI) JOBD(ZJI) </pre> <p>And up to 8 objects could be referenced (via index) by JDNBKNET (1 ZOD, 4 ZJIs, 3 ZDBs).</p>					
3556	(DE4)	ADDRESS	4	JDNBKZOD	ZOD address to backout from (the elements in JDNBKNET correspond to this ZOD).
3560	(DE8)	SIGNED	4	JDNBKNET(0)	/ NET ZJC backout array.
3972	(F84)	SIGNED	2	JDNBKNEC	Number of used entries in JDNBKNET.
3972	(F84)	X'F86'	0	JDWLEN	"*-JDBLDWRK" Length ZOD build work area.

Table 336. Structure JDJSETEL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDJSETEL	, Job Set work element
0	(0)	CHARACTER	8	JDJSNAME	Job Set Name
8	(8)	BITSTRING	1	JDJSSTAT	Job Set Status :
		.... ....		JDJS_INT	"X'00'" Job set not created yet.
		.... ...1		JDJS_CRE	"X'01'" Job Set is created
		.... ..1.		JDJS_END	"X'02'" Job Set is complete.
9	(9)	BITSTRING	7		Reserved
16	(10)	ADDRESS	8	JDJSZJIP	Pointer to first job (ZJI) in the job list for this Job Set. The ZJIs in this chain use field ZJINJSET.
16	(10)	X'18'	0	JDJSETLN	"*-JDJSETEL" Length of JDJSETEL element.
16	(10)	X'40'	0	JDJSNUME	"64" Number of JDJSETEL elements in JDWJBSET jobset array.

Table 337. Structure JDWERROR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDWERROR	, Job Set work element
0	(0)	CHARACTER	8	JDERPARN	Parent job name
8	(8)	CHARACTER	8	JDERDEPN	Dependent job name
8	(8)	X'10'	0	JDWERRLN	"*-JDWERROR" Length of JDWERROR element.



Table 337. Structure JDWERROR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	X'10'	0	JDERUNRN	"16" Number of JDWERROR elements in JDWUNRER error array.
8	(8)	X'10'	0	JDERDUPN	"16" Number of JDWERROR elements in JDWDUPER error array.
8	(8)	X'10'	0	JDERCIRN	"16" Number of JDWERROR elements in JDWCIRER error array.

Table 338. Structure JDWHENWK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDWHENWK	, When work area
Following ptrs related to WHEN= ERROR= processing. Operation stack and RPN -> Reverse polish notation list. Also addr of last byte in WHEN= ERROR string. Note: in comments WHEN also denotes ERROR.					
0	(0)	ADDRESS	8	JDCURPTR	Ptr to current WHEN=/ERROR= char being processed
8	(8)	ADDRESS	8	JDSTKTOP	Pointer to stack top
16	(10)	ADDRESS	8	JDSTKSTR	Ptr to start of operator stack
24	(18)	ADDRESS	8	JDSTKEND	Ptr to last enrtly possible in operator stack
32	(20)	ADDRESS	8	JDRPNFST	Ptr to start of when=/ERROR RPN list being built
40	(28)	ADDRESS	8	JDRPNNXT	Ptr to next byte to populate in RPN list
48	(30)	ADDRESS	8	JDRPLAST	Ptr to last byte in RPN list
56	(38)	ADDRESS	8	JDWHFRST	Ptr to first character in WHEN= or ERROR= string
64	(40)	ADDRESS	8	JDWHLAST	Ptr to last byte in WHEN= or ERROR= string
72	(48)	DBL WORD	8	JDWDBONE	Dword work area 1 PACK etc.
80	(50)	DBL WORD	8	JDWDBTWO	Dword work area 2
88	(58)	BITSTRING	1	JDWHFLG1	Flag 1
		1... ....		JRONLYOP	"B'10000000'" Since last '(' only operators encountered. Anything - other than an operator will negate this condition. Used to catch (!)RUN - we must avoid pushing (!) to RPN list prematurely.
89	(59)	BITSTRING	1	JDWHFLG2	Flag 2
		1... ....		JDW2SECJ	"B'10000000'" Caller supports both SECERR and JCLERR values
90	(5A)	BITSTRING	6		Reserved
96	(60)	BITSTRING	16	JDPARSE	Structure used to parse WHEN= and ERROR=
112	(70)	BITSTRING	16	JDWELEME	Work area used to build RPN list
128	(80)	CHARACTER	64	JDRPNLST	Built RPN list - eventually stored in checkpoint
192	(C0)	SIGNED	4	JDRPNSIZ	Number of bytes in built RPN list
196	(C4)	BITSTRING	1	JLASTPRO	Last processed (Successfully)
196	(C4)	X'1'	0	JLOGICAL	"x'01'" Logical operator
196	(C4)	X'2'	0	JDIGIT	"x'02'" Digit
196	(C4)	X'3'	0	JJCLVAR	"x'03'" JCLVAR



Table 338. Structure JDWHENWK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
196	(C4)	X'4'	0	JABENCOD	"x'04'" ABENDCC code
196	(C4)	X'5'	0	JLEFTPAR	"x'05'" Left paren
196	(C4)	X'6'	0	JRIGHPAR	"x'06'" Right paren
196	(C4)	X'7'	0	JUNDEFIN	"x'07'" Undefined
197	(C5)	BITSTRING	1	JWHSTK	Operator stack
197	(C5)	X'C0'	0	JWSTKLEN	"(96*JOSTELLN)" Stack length
389	(185)	BITSTRING	1	JWORKSTK	Work stack entry
389	(185)	X'187'	0	JDWHLEN	"*-JDWHENWK" Length of WHEN=/ERROR= work area

Table 339. Structure JDNETDEF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDNETDEF	
This structure communicates to maintask / NET specifics for a job. At input processing time there can be at most one / NET per job. It is assumed that the / NET STMT has been verified to be syntactially correct.					
0	(0)	CHARACTER	8	JDNJBNAM	Name of job on associated job card
8	(8)	CHARACTER	8	JDNNETID	NETID= This becomes logging job name
16	(10)	BITSTRING	0	JDNRELAR(0)	Release= job name array. Jobs in network that run after the job on assoc job card runs.
Following two lines define NETREL=(netid,jobname) Job in another network that can run after the job on associated job card runs. One NETREL allowed per / NET statement - I think!!					
416	(1A0)	CHARACTER	8	JDNRELID	NETREL=(netid,
424	(1A8)	CHARACTER	8	JDNRELJB	NETREL=( ,jobname)
432	(1B0)	ADDRESS	4	JDNRLJQA	NETREL=(netid logging job - update or read mode JQA
436	(1B4)	SIGNED	2	JDNNHOLD	NHOLD=N - The number (0 to 32767) of previous jobs that must complete before releasing job specified on the job card.
NORMAL=(D or F or R) - Indicates action to take for this job (specified on Job Card) when any predecessor job completes execution normally. Normal is defined as (RUN & !ABEND). If NORMAL not specified then default is D.					
438	(1B6)	BITSTRING	1	JDNNORMA	NORMAL=(D or F or R)
		.... ....		JDNNODEC	"X'00'" NORMAL=D - Decrease this job's hold count
		.... ...1		JDNNOFLU	"X'01'" NORMAL=F - Flush this job and its successor jobs from the system
		.... ...1.		JDNNORET	"X'02'" NORMAL=R - Retain this job in the system and do NOT decrease NHOLD count.
ABNORMAL=(D or F or R) - Indicates action to take for this job (specified on Job Card) when any predecessor job completes execution abnormally. Abnormal is defined as !(RUN & !ABEND). If ABNORMAL is not specified then default is D.					



Table 339. Structure JDNETDEF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
439	(1B7)	BITSTRING	1	JDNABNOR	ABNORMAL=(D or F or R)
		.... ....		JDNABDEC	"X'00'" ABNORMAL=D - Decrease this job's hold count
		.... ...1		JDNABFLU	"X'01'" ABNORMAL=F - Flush this job and its successor jobs from the system
		.... ...1.		JDNABRET	"X'02'" ABNORMAL=R - Retain this job in the system and do not decrease NHOLD count.
ABCMP=(KEEP or NOKP) - Indicates action to if job specified on the job card abnormally terminates. Abnormally terminate is defined as !(RUN & !ABEND). NOKP is the default.					
440	(1B8)	BITSTRING	1	JDNABCMP	ABCMF
		.... ....		JDNOKKEEP	"X'00'" ABCMP=NOKP - Purge the network
		.... ...1		JDNAKEEP	"X'01'" ABCMP=KEEP - Indicates that the network is to be kept in the system until the job (on job card) is resubmitted and completes normally OR the operator forces the network from the system.
NRCMP=(HOLD or NOHO or FLSH) - Indicates that that network job that completed normally is being resubmitted and all references must be erase before job reenters the network.					
441	(1B9)	BITSTRING	1	JDNNRCMP	NRCMP
		.... ....		JDNHOLD	"X'00'" NRCMP=HOLD
		.... ...1		JDNNOHO	"X'01'" NRCMP=NOHO
		.... ...1.		JDNFLSH	"X'02'" NRCMP=FLSH
OPHOLD=(NO or YES)					
442	(1BA)	BITSTRING	1	JDNPHOLD	OPHOLD
		.... ....		JDNOPNO	"X'00'" OPHOLD=NO
		.... ...1		JDNOPYES	"X'01'" OPHOLD=YES
444	(1BC)	SIGNED	4	(0)	Force word alignment
444	(1BC)	ADDRESS	4	JDNLGJQE	Logging job JQE
448	(1C0)	SIGNED	4	JDNZJCIX	Index of associated groups ZJC -> ZOD
Other information needed by JQANETGR to create a / NET logging job. These values are obtained from the job card associated with the / NET STMT.					
452	(1C4)	BITSTRING	80	JDNTOKA	Security token for job on associated job card
532	(214)	CHARACTER	10	JDNDEVN	Device name associated with job on job card
542	(21E)	BITSTRING	1	JDNDEVTP	Device type
543	(21F)	BITSTRING	3	JDNDEVID	Device ID
Next 16 bytes is a work area for subroutine JQANETGR					
546	(222)	CHARACTER	16	JDNJQWRK	JQANETGR work area



Table 339. Structure JDNETDEF (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
546	(222)	BITSTRING	1	JDNJQANE	JQANETGR flag bits
		1... ....		JDNCRNET	"B'10000000" This JQANETGR invocation has created NETID logging job
		.1.. ....		JDNCRREL	"B'01000000" This JQANETGR invocation has created RELID logging job
548	(224)	ADDRESS	4	JDNETZOD	Created NETID ZOD address
552	(228)	ADDRESS	4	JDRELZOD	Created RELID ZOD address
556	(22C)	BITSTRING	7		Reserved
556	(22C)	X'233'	0	JDNETLEN	"*-JDNETDEF" Length of / NET area
		1... ....		HOLDPLUS	"B'10000000" Equates used by SCAN to
		.1.. ....		HOLDMINU	"B'01000000" increment/decrement and
		..1. ....		HOLDZERO	"B'00100000" ZERO NHOLD value
556	(22C)	X'63'	0	HOLDOVER	"99" Largest NHOLD number displayable on \$DG,JOBS panel
556	(22C)	X'FFFFFF7'	0	HOLDNEGA	"-9" Smallest NHOLD number displayable on \$DG,JOBS panel

Table 340. Structure JDNELELM

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JDNELELM	, Array element definition
0	(0)	CHARACTER	8	JDNELJOB	Name of job to release
0	(0)	X'8'	0	JDNELLEN	"*-JDNELELM" Length of array element
0	(0)	X'32'	0	JDNELNUM	"50" Number of elements in release= array

## WLM constants

0	(0)	X'1E'	0	JDWLMTIM	"30" Number of seconds concurrent-set sits on SETUP queue before being re-evaluated from a WLM perspective.
---	-----	-------	---	----------	---

Table 341. Structure JPARSEST

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JPARSEST	, Parsing structure
0	(0)	CHARACTER	8	JDJCLVAR	BDY(DWORD) JCLVAR parse buffer
8	(8)	BITSTRING	1	JDWCUTYP	JCLVAR type
8	(8)	X'0'	0	JDNOJCLV	"x'00'" No JCLVAR active
8	(8)	X'4'	0	JCRC	"x'04'" RC
8	(8)	X'8'	0	JCRUN	"x'08'" RUN
8	(8)	X'C'	0	JCABENCC	"x'0C'" ABENDCC
8	(8)	X'10'	0	JCABEND	"x'10'" ABEND
		.1.1 .1..		JCJCLERR	"X'54'" JCLERR JCLVAR (JCL error)
		.1.1 1...		JCSECERR	"X'58'" SECERR JCLVAR (Security error)
		.1.1 11..		JCFAIL	"X'5C'" FAIL
9	(9)	BITSTRING	1	JDWOPRTY	Operator last encountered See equates below - range NOTOPER to OROPER
		.... ....		JDWNOOPR	"X'00'" No operator active



Table 341. Structure JPARSEST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
10	(A)	BITSTRING	1	JDVARSTS	JCLVAR status
10	(A)	X'0'	0	JDNOCOMP	"X'00'" JCLVAR not complete
10	(A)	X'1'	0	JDVCOMPL	"X'01'" JCLVAR is valid and complete
11	(B)	CHARACTER	3	JDWOPER	Operator parse buffer
14	(E)	BITSTRING	2		QWORD alignment
14	(E)	X'10'	0	JPARSLNG	"*-JDJCLVAR" Parse structure length

Table 342. Structure JDPERTSK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDPERTSK	, Operation stack element
0	(0)	BITSTRING	1	JDPTYPE	Operation type - see above
1	(1)	BITSTRING	1	JOPPREC	Operator precedence
1	(1)	X'2'	0	JOSTELLN	"*-JDPERTSK" Length of stack element

Table 343. Structure JRPNELEM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JRPNELEM	, RPN list element
0	(0)	BITSTRING	1	JDELEMID	RPN element identifier
		.... .1..		JDWRC	"X'04'" RC JCLVAR
		.... 1...		JDWRUN	"X'08'" RUN JCLVAR
		.... 11..		JDABENCC	"X'0C'" ABENDCC JCLVAR
		...1 ....		JDWABEND	"X'10'" ABEND JCLVAR
		...1 .1..		JDSYSID	"X'14'" Sys abend code for ABENDCC
		...1 1...		JDUSRID	"X'18'" USER abend code - ABENDCC
		...1 11..		JDNUMID	"X'1C'" Integer for RC
		..1. ....		NOTOPER	"X'20'" !
		..1. .1..		GTOPER	"X'24'" >
		..1. 1...		LTOOPER	"X'28'" <
		..1. 11..		NGTOOPER	"X'2C'" !>
		..11 ....		NLTOOPER	"X'30'" !<
		..11 .1..		EQOPER	"X'34'" =
		..11 1...		NEQOPER	"X'38'" !=
		..11 11..		GTEOPER	"X'3C'" >=
		.1.. ....		LTEOPER	"X'40'" <=
		.1.. .1..		ANDOPER	"X'44'" & and
		.1.. 1...		OROPER	"X'48'"   or
		.1.. 11..		LEFTPAR	"X'4C'" Left paren - not in RPN list - but could be in operation stack when building RPN. Also used for RPN -> INFIX notation
		.1.1 ....		RIGHTPAR	"X'50'" Right paren - not in RPN. Used for RPN -> INFIX notation.
		.1.1 .1..		JDWAJCLE	"X'54'" JCLERR JCLVAR (JCL error)
		.1.1 1...		JDWASECE	"X'58'" SECERR JCLVAR (Security error)
		.1.1 11..		JDWAFAIL	"X'5C'" FAIL JCLVAR



Table 343. Structure JRPNELEM (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		.... ....		HEXZERO	"X'00'" Used only for processing INFIX stack elements
		.111 ....		JENDMARK	"X'70'" End of list marker
0	(0)	X'1'	0	JENDLLEN	"*-JDELEMID" Length of end list elem
0	(0)	X'1'	0	JDJCLLEN	"*-JDELEMID" Length of JCLVAR element
0	(0)	X'1'	0	JOPELLEN	"*-JDELEMID" Length of operator list element
1	(1)	BITSTRING	2	JADDINFO	Additional data for element IDs - JDSYSID, JDUSRID and JDNUMID
1	(1)	BITSTRING	1	JDSYSCOD	Actual system abend code
1	(1)	X'3'	0	JDSYSLN	"*-JDELEMID" Length of system abend elem
1	(1)	BITSTRING	1	JDUSRCOD	User abend code
1	(1)	X'3'	0	JDUSRLN	"*-JDELEMID" Length of user abend elem
1	(1)	BITSTRING	1	JDNUMVAL	Integer for RC=
1	(1)	X'3'	0	JDNUMLEN	"*-JDELEMID" Length of integer elem
1	(1)	X'4'	0	JXMAXRL	"4" Maximum number of digits for RC= integer

Table 344. Structure JRMARXRC

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JRMARXRC	, MAXRC dsect
0	(0)	BITSTRING	4	JDMARXRC(0)	Maximum Job Return Code
0	(0)	BITSTRING	1	JDMXIND	Job completion indicator
1	(1)	BITSTRING	3	JDMARXCC	Completion code
1	(1)	X'4'	0	JDMARXLN	"*-JRMARXRC" Length of MARXRC
Character type returned via TRT in support of WHEN= and ERROR=. See WHENTRAN translate table in HASCJZDN.					
1	(1)	X'0'	0	INVALID	"0" Invalid character
1	(1)	X'1'	0	DIGIT	"1" 0-9
1	(1)	X'2'	0	LETTER	"2" Upper case alphabetic character: A .. Z
1	(1)	X'3'	0	OPERATOR	"3" Operator character: !, <, >, =, &,
1	(1)	X'4'	0	LFTPA	"4" Left paren
1	(1)	X'5'	0	RGHPA	"5" Right paren

Table 345. Structure JDINWRKA

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JDINWRKA	, INFIX work area
0	(0)	ADDRESS	8	JDINBUF@	Ptr to caller buffer
8	(8)	ADDRESS	8	JDISKSTR	Ptr to start of stack
16	(10)	ADDRESS	8	JDISTEND	Addr of last possible elem
24	(18)	ADDRESS	8	JDISTFND	Addr of last stack element found
32	(20)	ADDRESS	8	JDISTTOP	Ptr to stack top
40	(28)	ADDRESS	8	JDPOPELM	Ptr to POP'ed stack element



Table 345. Structure JDINWRKA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	ADDRESS	8	JDPUSHEL	Ptr to element to push
56	(38)	ADDRESS	8	JDELEME@	Input element - ELEPREND
64	(40)	DBL WORD	8	JRWRDWRD	Double word - work area #1
72	(48)	BITSTRING	16	JRWORK16	Double word - work area #2
88	(58)	CHARACTER	128	JDWKENT1	Work stack entry #1
216	(D8)	CHARACTER	128	JDWKENT2	Work stack entry #2
344	(158)	SIGNED	4	JDLOWPRE	Lowest operator precedence found in supplied stack element. (1,2,3) with 3 the highest
348	(15C)	SIGNED	4	JDELMBYT	Number of bytes (of tokens) within element passed to subroutine ELEPREND
352	(160)	SIGNED	4	JDEL1LEN	Length of element #1
356	(164)	SIGNED	4	JDEL2LEN	Length of element #2
360	(168)	BITSTRING	1	JDNFLAG1	Flag1
		1... ....		JDPAREN	"B'10000000'" Parenthesis is required
		.1.. ....		JDFNDAND	"B'01000000'" Routi ELEPREND found AND(&)
		..1. ....		JDFNDOR	"B'00100000'" Routi ELEPREND found OR( )
361	(169)	BITSTRING	1	JDINSTK	INFIX stack
361	(169)	X'3000'	0	JDSTLEN	"(96*JDSTELN)"
361	(169)	X'80'	0	JDEMLLEN	"128" Length of stack element
361	(169)	X'3169'	0	JDIWRLN	"*-JDINWRKA" INFIX work area length

Table 346. Structure JDINSTKE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDINSTKE	, INFIX stack element defined
0	(0)	CHARACTER	1	JDINENT	Actual element
0	(0)	X'80'	0	JDSTELN	"*-JDINSTKE" Length of stack element

Table 347. Structure JDCIRENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDCIRENT	, Circular dependency array element
0	(0)	CHARACTER	8	JDCIRPAR	Parent JOB name
8	(8)	CHARACTER	8	JDCIRDEP	Dependent JOB name
0	(0)	CHARACTER	16	JDCIRZAP	to allow zapping both
16	(10)	BITSTRING	1	JDCFLAG1	Circular FLAG1
		1... ....		JDCNOMSG	"B'10000000'" This dependency - even though left in circular dependency array - must not generate a message.
16	(10)	X'11'	0	JDCIRLEN	"*-JDCIRENT" Bytes in array entry
16	(10)	X'1388'	0	JDCARRYN	"5000" Number of initial elements within circular dependency detection array
16	(10)	X'14C08'	0	JDARRYLN	"(JDCARRYN*JDCIRLEN)" Number of bytes within initial circular depend detection array



Table 348. Structure JDPDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDPDATA	, Affinity - WLM job tokens
0	(0)	BITSTRING	4	JDPCCAFF	Composite affinity mask for ALL jobs in the concurrent set. If ZERO, no members exist that can run ALL of the jobs.
4	(4)	SIGNED	4	JDPCRTCD	RETURN CODE : If non-zero, denotes why this job set cannot execute. See routine JDNPCON in HASCJZDN, and relevant SCONSE__ codes in \$ZJC.
8	(8)	SIGNED	4	JDPCJBTK	Total number of WLM job tokens (JDPWLMT) in the token array ( starting at JDPCTOKA ).
12	(C)	SIGNED	4	JDPCTLEN	Total size of the structure (for \$FREMAIN).
16	(10)	SIGNED	4	JDPCCURT	SHOULD NOT BE USED. The current number of WLM job tokens. Used while building this structure.
20	(14)	SIGNED	2	JDPCTOKA(0)	Start of the 'WLM job token' (JDPWLMT) array. There are JDPJBTK elements in the array.
20	(14)	X'14'	0	JDPCFLEN	"*-JDPDATA" Length of fixed portion of structure ( what follows is the JDPCTOKA 'WLM job token' array ).

Table 349. Structure JDPWLMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDPWLMT	, WLM job token
0	(0)	SIGNED	4	JDPJNUM	JQE Job Number (JQEJBNUM)
4	(4)	BITSTRING	4	JDPJKEY	JQE Job ID (JQEJBKEY)
4	(4)	X'8'	0	JDPWLEN	"*-JDPWLMT" Length of WLM job token

Table 350. Structure MZODHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MZODHDR	, MZOD header data
0	(0)	CHARACTER	4	MZDEYEC	Eyecatcher for MZOD
4	(4)	CHARACTER	8	MZDZODNM	Job group name
12	(C)	CHARACTER	11	MZDZODST(0)	Job group status fields
12	(C)	BITSTRING	1	MZDSTAT	Job group status
13	(D)	BITSTRING	1	MZDFLAG1	MZOD Flag byte
		1... ....		MZD1MAX0	"B'10000000" MZOD storage full cond
		.1.. ....		MZD1ERIN	"B'01000000" ERROR= is INFIX format
		..1. ....		MZD1RDJC	"B'00100000" Job Group is DJC type
14	(E)	BITSTRING	1		Reserved
15	(F)	CHARACTER	8	MZDSTABN	STABNAME from scantab entry requesting MZOD data
23	(17)	BITSTRING	1	MZDZODOE	Job group ONERROR ind
24	(18)	BITSTRING	0	MZDERREX(0)	ERROR= expression text - Evaluated when one of the jobs in the network is in error.
24	(18)	SIGNED	4	MZDERRLN	ERROR= buffer length
28	(1C)	BITSTRING	0	MZDERRBF(0)	ERROR= buffer



Table 350. Structure MZODHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	ADDRESS	4	MZDERRBA	ERROR= address of INFIX notation storage
32	(20)	ADDRESS	4	MZDIFCHN	Address of INFIX notation storage block chain
36	(24)	ADDRESS	4	MZDSCWA	Address of SCWA, if any
Parameter list for DISGETIF routine					
40	(28)	BITSTRING	16	MZDIFPAR(0)	PRINT_RPN parameter list
40	(28)	ADDRESS	4	MZDIFRPN	Address of input RPN
44	(2C)	SIGNED	4	MZDIFRPL	Length of input RPN
48	(30)	ADDRESS	4	MZDIFBUF	Address of output INFIX notation buffer
52	(34)	SIGNED	4	MZDIFBFL	Length of output INFIX notation buffer
56	(38)	BITSTRING	1		Reserved for ERROR=
50 characters is the max size hex conv SCAN can do					
72	(48)	SIGNED	4	MZDERREL	ERROR= text actual size in MZDERREX.
76	(4C)	BITSTRING	4		Reserved
80	(50)	SIGNED	2	MZDZODEN(0)	Start of job info entries
80	(50)	X'50'	0	MZODHDL	"*-MZODHDR" Length of MZOD header data

Table 351. Structure MZODJOB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MZODJOB	, MZOD network job data
0	(0)	BITSTRING	1	MZDJOBTY	Job info record type
		1... ....		MZODJOBNA	"B'10000000'" Network job record type
		.1.. ....		MZODJOBNC	"B'01000000'" Concurrent job record typ
		..1. ....		MZODJOBPA	"B'00100000'" Parent job record type
		...1 ....		MZODJOBPE	"B'00010000'" Dependent job record type through job entries
		.... 1...		MZODJOBPD	"B'00001000'" Dependent job record type through dependency ent
		.... .1..		MZODJOBPI	"B'00000100'" Job in error record type
		.... ..1.		MZODDJC	"B'00000010'" Job associated with DJC
		.... ...1		MZODOVER	"B'00000001'" Jobs NHOLD value will overflow \$DG,JOBS HC field
		.... ....		MZODDUPE	"B'00000000'" Duplicate entry - no dsp
1	(1)	BITSTRING	1	MZDENDAC	End action
2	(2)	BITSTRING	1	MZDOTHWS	Otherwise action
3	(3)	BITSTRING	1	MZDWHNLN	WHEN= text length
4	(4)	CHARACTER	8	MZDJOBNM	Network job name
12	(C)	CHARACTER	8	MZDJOBID	Network job ID (or NONE)
20	(14)	CHARACTER	8	MZDJOBST(0)	Network job status
20	(14)	BITSTRING	1	MZDJBST1	Status Indicator Flag 1



Table 351. Structure MZODJOB (continued)

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
		1... ..		MZDJBNRG	"B'10000000'" Job not registered yet
		.1.. ..		MZDJBACT	"B'01000000'" ACTIVE, executing
		..1. ....		MZDJBRDY	"B'00100000'" QUEUED, ready to run
		...1 ....		MZDJBNEL	"B'00010000'" NOT ELIG to run
		.... 1...		MZDJBDEP	"B'00001000'" PEND DEP on other jobs
		.... .1..		MZDJBHLD	"B'00000100'" HELD in some manner
		.... ..1.		MZDJBPLY	"B'00000010'" DELAYED in some manner
		.... ...1		MZDJBPRG	"B'00000001'" PURGED, job was purged
21	(15)	BITSTRING	1	MZDJBST2	Status Indicator Flag 2
		1... ..		MZDJBQJE	"B'10000000'" No QJE found
22	(16)	BITSTRING	1	MZDJBQUE	Job's QJETYPE
23	(17)	BITSTRING	1	MZDJBFG1	Job's Flag 1
24	(18)	BITSTRING	1	MZDJBSTC	Job's Completion Status (ZJISTAT) or Dependent Job Action (ZDBDEPEA)
25	(19)	BITSTRING	1	MZDJBSTD	Job's Dependency Status
26	(1A)	BITSTRING	1	MZDENTF1	MZOD Entry Flag 1
		1... ..		MZD1WHIN	"B'10000000'" WHEN= is INFIX format
27	(1B)	BITSTRING	1	MZDJBSTR	Reserved
28	(1C)	BITSTRING	1	MZDNHOLD	NHOLD value if job is part of DJC and value does not overflow DG,jobs display field.
29	(1D)	BITSTRING	1		Reserved.
30	(1E)	SIGNED	2	MZDAHOLD	Actual current NHOLD value (used for DG,JOBF)
32	(20)	CHARACTER	8	MZDJOBAN	Associated job name. Can be Concurrent job name, or Child job name, or Parent job name, or Job set name, depending on record type
40	(28)	ADDRESS	4	MZDALIGN(0)	Force minimal alignment.
40	(28)	BITSTRING	0	MZDWHNEX(0)	WHEN= expression text - Evaluated when the parent job completes.
40	(28)	SIGNED	4	MZDWHNLE	WHEN= buffer length
44	(2C)	ADDRESS	4	MZDWHNBA	WHEN= address of INFIX notation storage
40	(28)	BITSTRING	4	MZDMAXRC	MAXRC value
44	(2C)	BITSTRING	4		Reserved
44	(2C)	X'30'	0	MZODJOBL	"*-MZODJOB" Length of MZOD network job data
44	(2C)	X'552'	0	MZODJOBM	"(((65535-8-8)-MZODHDRL)/ MZODJOBL)-1)" Maximum number of MZOD entries. x'FFFF'-8 for temp cb hdr minus 8 more for rounding minus MZOD header divided by MZOD entry len minus 1 entry fudge
44	(2C)	X'FFB0'	0	MZODFULL	"MZODHDRL+(MZODJOBL*MZODJOBM)" Size of full MZOD
44	(2C)	X'FFF7'	0	MZODSIZE	"(65535-8)" Size of temp CB allocated by SCAN

Table 352. Structure MZDERROR

Offset Dec	Offset Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MZDERROR	, MZOD ERROR entry



Table 352. Structure MZDERROR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	1	MZDERRTX	ERROR= expression text - Evaluated when one of the jobs in the network is in error.

Table 353. Structure MZDWHEN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MZDWHEN	, MZOD WHEN entry
0	(0)	BITSTRING	1	MZDWHNTX	WHEN= expression text - Evaluated when one of the jobs in the network is in error.

Table 354. Structure MZDINFIX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MZDINFIX	, MZOD INFIX storage block
0	(0)	CHARACTER	4	MZDINEYE	Eyecatcher for MZOD INFIX
4	(4)	SIGNED	4	MZDINLEN	Size of MZIF block
8	(8)	ADDRESS	4	MZDINNXT	Address of next MZIF block
12	(C)	ADDRESS	4	MZDINOFF	Offset in this MZIF to free storage
16	(10)	SIGNED	4	MZDINREM	Size of remaining free storage in this MZIF blk
20	(14)	BITSTRING	12		Reserved
20	(14)	X'20'	0	MZDINHLN	"*-MZDINFIX" Length of MZIF header data
32	(20)	SIGNED	4	MZDINDTA(0)	Start of INFIX notation data

Table 355. Structure CONC1201

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CONC1201	, HASP1201 parms
0	(0)	CHARACTER	8	CONCNAM	Job name associated with concurrent set
8	(8)	CHARACTER	8	CONCGRP	Associated job group
16	(10)	BITSTRING	1	CONTYPE	Message type to cut
		1... ....		CONEXEC	"B'10000000'" Concurrent set queued for execution
		.1.. ....		CONDELAY	"B'01000000'" Concurrent set delayed for user correctable reason
		..1. ....		CONERROR	"B'00100000'" Concurrent set delayed due to APARable situation
17	(11)	BITSTRING	1	CONREASO	Reason for delay
17	(11)	X'12'	0	CONLENGT	"*-CONC1201" Length of CONC1201

Return codes for selection/non-selection of a concurrent set of jobs for execution. See routine \$DCONSET in HASPXEQ. For any ID marked INTERNAL ERROR - a DISTERR has been cut and the corresponding message will denote internal error.

17	(11)	X'0'	0	SCONSE00	"0" Success no wait
17	(11)	X'1'	0	SCONSE01	"1" WITH= selection failed for a job in the set
17	(11)	X'2'	0	SCONSE02	"2" INTERNAL ERROR: Input primary JQA is not valid



Table 355. Structure CONCL201 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
17	(11)	X'3'	0	SCONSE03	"3" All jobs not within same service class
17	(11)	X'4'	0	SCONSE04	"4" INTERNAL ERROR: Job key of ZJI in set does not match corresponding JQA
17	(11)	X'5'	0	SCONSE05	"5" INTERNAL ERROR: JQA or CAT could not be created for a job in the set
17	(11)	X'6'	0	SCONSE06	"6" INTERNAL ERROR: Job within set is not a batch job
17	(11)	X'7'	0	SCONSE07	"7" INTERNAL ERROR: Job within set is held for ARM
17	(11)	X'8'	0	SCONSE08	"8" Job in set is held
17	(11)	X'9'	0	SCONSE09	"9" Job within set is marked BUSY
17	(11)	X'A'	0	SCONSE10	"10" INTERNAL ERROR: Non-primary job in the set not on the \$SETUP queue
17	(11)	X'B'	0	SCONSE11	"11" No active members available to select
17	(11)	X'C'	0	SCONSE12	"12" A job in the set is marked as 'not eligible to be selected' (the job group is most likely 'stopped').
17	(11)	X'D'	0	SCONSE13	"13" Reserved for future use.
17	(11)	X'E'	0	SCONSE14	"14" Reserved for future use.
17	(11)	X'F'	0	SCONSE15	"15" Set cannot run due to job affinity (JQESAF)
17	(11)	X'10'	0	SCONSE16	"16" Set cannot run due to SECLABEL affinity (JQASCLAF)
17	(11)	X'11'	0	SCONSE17	"17" Set cannot run due to scheduling environ affinity (JQASCHAF)
17	(11)	X'12'	0	SCONSE18	"18" Set cannot run due to spools used mask (JQASUMSK)
17	(11)	X'13'	0	SCONSE19	"19" One of the jobs is locked
17	(11)	X'14'	0	SCONSE20	"20" No members available to select work based on associated job class member affinity
17	(11)	X'15'	0	SCONSE21	"21" No members available to select work based on associated job class MAX job limits
17	(11)	X'16'	0	SCONSE22	"22" Reserved for future use.
17	(11)	X'17'	0	SCONSE23	"23" INTERNAL ERROR: Input Primary does not have a ZJI index
17	(11)	X'18'	0	SCONSE24	"24" Member(s) not selectable due to \$P or non-boss status
17	(11)	X'19'	0	SCONSE25	"25" INTERNAL ERROR: Could not obtain a WSC
17	(11)	X'1A'	0	SCONSE26	"26" Minimum BCP level not avail
17	(11)	X'1B'	0	SCONSE27	"27" INTERNAL ERROR: IWMBLOC parameter error
17	(11)	X'1C'	0	SCONSE28	"28" INTERNAL ERROR: IWMBLOC environmental error
17	(11)	X'1D'	0	SCONSE29	"29" INTERNAL ERROR: IWMBLOC unexpected WLM response
17	(11)	X'1E'	0	SCONSE30	"30" No capacity to run at this time
17	(11)	X'1F'	0	SCONSE31	"31" INTERNAL ERROR: IWMBREQ parameter error
17	(11)	X'20'	0	SCONSE32	"32" INTERNAL ERROR: IWMBREQ unexpected WLM response



Table 355. Structure CONCL201 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
17	(11)	X'21'	0	SCONSE33	"33" A ZJI in the set is not ACTIVE ( it is FLUSHED or IN_ERROR ).
17	(11)	X'22'	0	SCONSE34	"34" Initiators all ready started - NOOP \$DCONSET - no HASP1201 message
17	(11)	X'23'	0	SCONSE35	"35" INTERNAL ERROR: bad return code from PROCESS_CONCUR_JOBS
17	(11)	X'24'	0	SCONSE36	"36" No BOSS member up to handle concurrent set
17	(11)	X'25'	0	SCONSE37	"37" \$DCONSET request sent to another member
17	(11)	X'26'	0	SCONSE38	"38" All jobs in set are independent mode but no independent members available.
17	(11)	X'27'	0	SCONSE39	"39" Set contains jobs running independent and non- independent mode.
17	(11)	X'28'	0	SCONSE40	"40" All jobs in set are non-independent mode but no non-independent members available
17	(11)	X'48'	0	SCONSE72	"72" \$DCONSET request sent to another member

Table 356. Structure GRP1210

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GRP1210	, HASP1210 parms
0	(0)	CHARACTER	8	GRPGROUP	Associated job group name
8	(8)	ADDRESS	4	GRPJQE@	Address of a JQE related to job group. May be logging job.
12	(C)	BITSTRING	1	GRPREASO	Reason for error
12	(C)	X'D'	0	GRPLENGT	"*-GRP1210" Length of GRP1210

Table 357. Structure ZJCCNT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ZJCCNT	, ZJC count array
0	(0)	CHARACTER	8	ZJCCNM1	ZJC type 1 (free)
8	(8)	SIGNED	4	ZJCCNR1	Number of ZJCs of this type
8	(8)	X'C'	0	ZJCCLEN	"*-ZJCCNT" Size of one entry
12	(C)	CHARACTER	8	ZJCCNM2	ZJC type 2 (Z0D)
20	(14)	SIGNED	4	ZJCCNR2	Number of ZJCs of this type
24	(18)	CHARACTER	8	ZJCCNM3	ZJC type 3 (ZJI)
32	(20)	SIGNED	4	ZJCCNR3	Number of ZJCs of this type
36	(24)	CHARACTER	8	ZJCCNM4	ZJC type 4 (ZDB)
44	(2C)	SIGNED	4	ZJCCNR4	Number of ZJCs of this type
48	(30)	CHARACTER	8	ZJCCNM5	ZJC type 5 (invalid)
56	(38)	SIGNED	4	ZJCCNR5	Number of ZJCs of this type
56	(38)	X'3C'	0	ZJCCARSZ	"*-ZJCCNT" Size of a full array



Table 358. Cross Reference for \$ZJC

Name	Offset	Hex Tag
\$ZJCOBJM	9	94
ANDOPER	0	44
CONCGRP	8	
CONCNAM	0	
CONC1201	0	
CONDELAY	10	40
CONERROR	10	20
CONEXEC	10	80
CONLENGT	11	12
CONREASO	11	
CONTYPE	10	
DIGIT	1	1
EQOPER	0	34
GRPGROUP	0	
GRPJQE@	8	
GRPLENGT	C	D
GRPREASO	C	
GRP1210	0	
GTEOPER	0	3C
GTOPER	0	24
HEXZERO	0	0
HOLDMINU	22C	40
HOLDNEGA	22C	FFFFFF7
HOLDOVER	22C	63
HOLDPLUS	22C	80
HOLDZERO	22C	20
INVALID	1	0
JABENCOD	C4	4
JADDINFO	1	
JCABENCC	8	C
JCABEND	8	10
JCFAIL	8	5C
JCJCLERR	8	54
JCRC	8	4
JCRUN	8	8
JCSECERR	8	58
JDABENCC	0	C
JDARRYLN	10	14C08
JDBLDWRK	0	



Table 358. Cross Reference for \$ZJC (continued)

Name	Offset	Hex Tag
JDCARRYN	10	1388
JDCFLAG1	10	
JDCIRDEP	8	
JDCIRENT	0	
JDCIRLEN	10	11
JDCIRPAR	0	
JDCIRZAP	0	
JDCNOMSG	10	80
JDCURPTR	0	
JDELEME@	38	
JDELEMID	0	
JDELMBYT	15C	
JDELMLEN	169	80
JDEL1LEN	160	
JDEL2LEN	164	
JDERCIRN	8	10
JDERDEPN	8	
JDERDUPN	8	10
JDERPARN	0	
JDERUNRN	8	10
JDFNDAND	168	40
JDFNDOR	168	20
JDF1CMAX	24	40
JDF1JMAX	24	80
JDIGIT	C4	2
JDINBUF@	0	
JDINENT	0	
JDINSTK	169	
JDINSTKE	0	
JDINWRKA	0	
JDISKSTR	8	
JDISTEND	10	
JDISTFND	18	
JDISTTOP	20	
JDIWRLN	169	3169
DDJCLLEN	0	1
DDJCLVAR	0	
DDJS_CRE	8	1
DDJS_END	8	2



Table 358. Cross Reference for \$ZJC (continued)

Name	Offset	Hex Tag
JDJS_INT	8	0
JDJSETEL	0	
JDJSETLN	10	18
JDJSNAME	0	
JDJSNUME	10	40
JDJSSTAT	8	
JDJSZJIP	10	
JDLWPPE	158	
JDMAXCC	1	
JDMAXLN	1	4
JDMAXRC	0	
JDMXIND	0	
JDNABCMP	1B8	
JDNABDEC	1B7	0
JDNABFLU	1B7	1
JDNABNOR	1B7	
JDNABRET	1B7	2
JDNAKEEP	1B8	1
JDNBKNEC	F84	
JDNBKNET	DE8	
JDNBKZOD	DE4	
JDNCRNET	222	80
JDNCRREL	222	40
JDNDEVID	21F	
JDNDEVN	214	
JDNDEVTP	21E	
JDNELELM	0	
JDNELJOB	0	
JDNELLEN	0	8
JDNELNUM	0	32
JDNETDEF	0	
JDNETLEN	22C	233
JDNETZOD	224	
JDNFLAG1	168	
JDNFLSH	1B9	2
JDNHOLD	1B9	0
JDNJBNAM	0	
JDNJQANE	222	
JDNJQWRK	222	



Table 358. Cross Reference for \$ZJC (continued)

Name	Offset	Hex Tag
JDNLGJQE	1BC	
JDNNETID	8	
JDNNHOLD	1B4	
JDNNODEC	1B6	0
JDNNOFLU	1B6	1
JDNNOHO	1B9	1
JDNNORET	1B6	2
JDNNORMA	1B6	
JDNNRCMP	1B9	
JDNOCOMP	A	0
JDNOJCLV	8	0
JDNOKEEP	1B8	0
JDNOPNO	1BA	0
JDNOPYES	1BA	1
JDNPHOLD	1BA	
JDNRELAR	10	
JDNRELID	1A0	
JDNRELJB	1A8	
JDNRLJQA	1B0	
JDNTOKA	1C4	
JDNUMID	0	1C
JDNUMLEN	1	3
JDNUMVAL	1	
JDNZJCIX	1C0	
JDPAREN	168	80
JDPARSE	60	
JDPCCAFF	0	
JDPCCURT	10	
JDPCDATA	0	
JDPCFLEN	14	14
JDPCJBTK	8	
JDPCJKEY	4	
JDPCJNUM	0	
JDPCRTCD	4	
JDPCTLEN	C	
JDPCTOKA	14	
JDPCWLEN	4	8
JDPCWLMT	0	
JDPERTSK	0	



Table 358. Cross Reference for \$ZJC (continued)

Name	Offset	Hex Tag
JDPOPELM	28	
JDPTYPE	0	
JDPUSHEL	30	
JDRELZOD	228	
JDRPLAST	30	
JDRPNFST	20	
JDRPNLST	80	
JDRPNNXT	28	
JDRPNSIZ	C0	
JDSTELLN	0	80
JDSTKEND	18	
JDSTKSTR	10	
JDSTKTOP	8	
JDSTLEN	169	3000
JDSYSCOD	1	
JDSYSID	0	14
JDSYSLEN	1	3
JDUSRCOD	1	
JDUSRID	0	18
JDUSRLEN	1	3
JDVARSTS	A	
JDVCOMPL	A	1
JDWABEND	0	10
JDWAFAIL	0	5C
JDWAJCLE	0	54
JDWASECE	0	58
JDWCIFST	10	
JDWCILST	18	
JDWCIRER	828	
JDWCIRNM	20	
JDWCUTYP	8	
JDWDBONE	48	
JDWDBTWO	50	
JDWDUPER	728	
JDWELEME	70	
JDWERRLN	8	10
JDWERROR	0	
JDWFLAG1	24	
JDWHENWK	0	



Table 358. Cross Reference for \$ZJC (continued)

Name	Offset	Hex Tag
JDWHFLG1	58	
JDWHFLG2	59	
JDWHFRST	38	
JDWHLAST	40	
JDWHLEN	185	187
JDWJBSET	28	
JDWKENT1	58	
JDWKENT2	D8	
JDWLEN	F84	F86
JDWLMTIM	0	1E
JDWNET	BB0	
JDWNOOPR	9	0
JDWOPER	B	
JDWOPRTY	9	
JDWRC	0	4
JDWRUN	0	8
JDWSAVR1	928	
JDWSAVR2	9A8	
JDWUNRER	628	
JDWURCON	0	
JDWURDEP	8	
JDWWHEN	A28	
JDW2SECJ	59	80
JENDLLEN	0	1
JENDMARK	0	70
JJCLVAR	C4	3
JLASTPRO	C4	
JLEFTPAR	C4	5
JLOGICAL	C4	1
JOPELLEN	0	1
JOPPREC	1	
JOSTELLN	1	2
JPARSEST	0	
JPARSLNG	E	10
JRIGHPAR	C4	6
JRMXRC	0	
JRONLYOP	58	80
JRPNELEM	0	
JRWORK16	48	



Table 358. Cross Reference for \$ZJC (continued)

Name	Offset	Hex Tag
JRWRDWRD	40	
JUNDEFIN	C4	7
JWHSTK	C5	
JWORKSTK	185	
JWSTKLEN	C5	C0
JXMAXRL	1	4
LEFTPAR	0	4C
LETTER	1	2
LFTPA	1	4
LTEOPER	0	40
LTOPER	0	28
MZDAHOLD	1E	
MZDALIGN	28	
MZDENDAC	1	
MZDENTF1	1A	
MZDERRBA	1C	
MZDERRBF	1C	
MZDERREL	48	
MZDERREX	18	
MZDERRLN	18	
MZDERROR	0	
MZDERRTX	0	
MZDEYEC	0	
MZDFLAG1	D	
MZDIFBFL	34	
MZDIFBUF	30	
MZDIFCHN	20	
MZDIFPAR	28	
MZDIFRPL	2C	
MZDIFRPN	28	
MZDINDTA	20	
MZDINEYE	0	
MZDINFIX	0	
MZDINHLN	14	20
MZDINLEN	4	
MZDINNXT	8	
MZDINOFF	C	
MZDINREM	10	
MZDJBACT	14	40



Table 358. Cross Reference for \$ZJC (continued)

Name	Offset	Hex Tag
MZDJBDEP	14	8
MZDJBPLY	14	2
MZDJBFG1	17	
MZDJBHLD	14	4
MZDJBQJE	15	80
MZDJBNEL	14	10
MZDJBNRG	14	80
MZDJBPRG	14	1
MZDJBQUE	16	
MZDJBBDY	14	20
MZDJBSTC	18	
MZDJBSTD	19	
MZDJBSTR	1B	
MZDJBST1	14	
MZDJBST2	15	
MZDJOBAN	20	
MZDJOBID	C	
MZDJOBNM	4	
MZDJOBST	14	
MZDJOBTY	0	
MZDMAXRC	28	
MZDNHOLD	1C	
MZDOTHWS	2	
MZDSCWA	24	
MZDSTABN	F	
MZDSTAT	C	
MZDWHEN	0	
MZDWHNBA	2C	
MZDWHNEX	28	
MZDWHNLE	28	
MZDWHNLN	3	
MZDWHNTX	0	
MZDZODEN	50	
MZDZODNM	4	
MZDZODOE	17	
MZDZODST	C	
MZD1ERIN	D	40
MZD1MAXO	D	80
MZD1RDJC	D	20



Table 358. Cross Reference for \$ZJC (continued)

Name	Offset	Hex Tag
MZD1WHIN	1A	80
MZODDJC	0	2
MZODDUPE	0	0
MZODFULL	2C	FFB0
MZODHDR	0	
MZODHDRL	50	50
MZODJOB	0	
MZODJOBC	0	40
MZODJOB0	0	8
MZODJOBE	0	10
MZODJOBI	0	4
MZODJOBL	2C	30
MZODJOBM	2C	552
MZODJOBN	0	80
MZODJOBP	0	20
MZODOVER	0	1
MZODSIZE	2C	FFF7
NEQOPER	0	38
NGTOPER	0	2C
NLTOPER	0	30
NOTOPER	0	20
OPERATOR	1	3
OROPER	0	48
RGHPA	1	5
RIGHPAR	0	50
SCONSE00	11	0
SCONSE01	11	1
SCONSE02	11	2
SCONSE03	11	3
SCONSE04	11	4
SCONSE05	11	5
SCONSE06	11	6
SCONSE07	11	7
SCONSE08	11	8
SCONSE09	11	9
SCONSE10	11	A
SCONSE11	11	B
SCONSE12	11	C
SCONSE13	11	D



Table 358. Cross Reference for \$ZJC (continued)

Name	Offset	Hex Tag
SCONSE14	11	E
SCONSE15	11	F
SCONSE16	11	10
SCONSE17	11	11
SCONSE18	11	12
SCONSE19	11	13
SCONSE20	11	14
SCONSE21	11	15
SCONSE22	11	16
SCONSE23	11	17
SCONSE24	11	18
SCONSE25	11	19
SCONSE26	11	1A
SCONSE27	11	1B
SCONSE28	11	1C
SCONSE29	11	1D
SCONSE30	11	1E
SCONSE31	11	1F
SCONSE32	11	20
SCONSE33	11	21
SCONSE34	11	22
SCONSE35	11	23
SCONSE36	11	24
SCONSE37	11	25
SCONSE38	11	26
SCONSE39	11	27
SCONSE40	11	28
SCONSE72	11	48
ZDB	C	
ZDB_COMP	C	1
ZDB_PEND	C	0
ZDB_UDEF	C	2
ZDBDDEFR	D	3
ZDBDENAM	30	
ZDBDENXT	40	
ZDBDEPEA	D	
ZDBDEZJI	38	
ZBDBFAIL	D	2
ZBDBFLSH	D	1



Table 358. Cross Reference for \$ZJC (continued)

Name	Offset	Hex Tag
ZDBDSAT	D	0
ZDBENDA	89	
ZDBFLAG1	94	
ZDBLJKEY	90	
ZDBLJNUM	8C	
ZDBNXZDB	10	
ZDBOTHA	8A	
ZDBPRNAM	18	
ZDBPRNXT	28	
ZDBPRZJI	20	
ZDBRSVD	95	
ZDBRSVD1	E	
ZDBRSVSZ	95	B
ZDBSIZE	95	A0
ZDBSTAT	C	
ZDBWHENL	88	
ZDBWHENT	48	
ZDBWHMAX	8A	40
ZDB1DECH	94	80
ZJC	0	
ZJC	0	
ZJC	0	
ZJC	0	
ZJCCARSZ	38	3C
ZJCCLEN	8	C
ZJCCNM1	0	
ZJCCNM2	C	
ZJCCNM3	18	
ZJCCNM4	24	
ZJCCNM5	30	
ZJCCNR1	8	
ZJCCNR2	14	
ZJCCNR3	20	
ZJCCNR4	2C	
ZJCCNR5	38	
ZJCCNT	0	
ZJCINDEX	4	
ZJCNFREI	0	
ZJC0BJCT	C	



Table 358. Cross Reference for \$ZJC (continued)

Name	Offset	Hex Tag
ZJCRSVD1	9	
ZJCSIZE	C	A0
ZJCT_FRE	8	0
ZJCT_ZDB	8	3
ZJCT_ZJI	8	2
ZJCT_ZOD	8	1
ZJCTYPE	8	
ZJCVRSN	0	1
ZJI	C	
ZJI_ACTI	5A	1
ZJI_COMP	5A	2
ZJI_FLSH	5A	3
ZJI_INER	5A	4
ZJI_PEND	5A	0
ZJIABCMP	9C	
ZJIABNOR	9B	
ZJICHOLD	88	
ZJIERZJI	5C	
ZJIFLAG1	58	
ZJIFLAG2	71	
ZJIFLAG3	74	
ZJIFLAG4	75	
ZJIJBKEY	4C	
ZJIJBNUM	48	
ZJIJDZDB	28	
ZJIJNAME	40	
ZJIJPZDB	20	
ZJIJQEF3	59	
ZJIJSNAM	50	
ZJIJSRET	72	
ZJILJKEY	64	
ZJILJNUM	60	
ZJIMASZJ	84	
ZJIMAXRC	80	
ZJIMCJTS	68	0
ZJIMCMID	70	
ZJINJSET	38	
ZJINORMA	9A	
ZJINRCMP	9D	



Table 358. Cross Reference for \$ZJC (continued)

Name	Offset	Hex Tag
ZJINXCON	30	
ZJINXZJI	10	
ZJIPHOLD	9E	
ZJIPZOD	18	
ZJIRELID	8A	
ZJIRELJB	92	
ZJIRSVD	9F	
ZJIRSVSZ	9F	1
ZJISIZE	9F	A0
ZJISTAT	5A	
ZJISYSID	73	
ZJIWSCN	78	
ZJI1DEFE	58	2
ZJI1ELIG	58	80
ZJI1FACT	58	40
ZJI1JREG	58	8
ZJI1ORIG	58	1
ZJI1PURG	58	20
ZJI1RESU	58	10
ZJI1STRT	58	4
ZJI2ABND	71	8
ZJI2JCAN	71	20
ZJI2JGCM	71	80
ZJI2JWLM	71	40
ZJI2POST	71	10
ZJI3TSRV	74	80
ZJI4TCAN	75	80
ZJI4TMVS	75	40
ZOD	C	
ZOD_ACT	8B	2
ZOD_ACTI	8B	1
ZOD_CANI	8B	7
ZOD_COMP	8B	8
ZOD_FLSH	8B	6
ZOD_HELD	8B	5
ZOD_NOTF	8B	FF
ZOD_PEND	8B	0
ZOD_SUSD	8B	4
ZOD_SUSI	8B	3



Table 358. Cross Reference for \$ZJC (continued)

Name	Offset	Hex Tag
ZOBLDWK	30	30
ZODEFLSH	8A	3
ZODENOER	8A	0
ZODERMAX	89	40
ZODERRA	8A	
ZODERREL	88	
ZODERREX	48	
ZODERZJI	90	
ZODESTOP	8A	1
ZODESUSP	8A	2
ZODFLAG1	96	
ZODIZDB	20	
ZODIZJI	18	
ZODJQEF3	8C	
ZODLJKEY	44	
ZODLJNUM	40	
ZODNAME	38	
ZODNCZJI	2C	
ZODNPURG	2E	
ZODNRZJI	2A	
ZODNUMER	94	
ZODNXZOD	10	
ZODNZJI	28	
ZODONERR	89	
ZODRSVD	97	
ZODRSVSZ	97	9
ZODSIZE	97	A0
ZODSTAT	8B	
ZODTSMP	30	0
ZODTSMP2	C	
ZOD1CANF	96	10
ZOD1NETC	96	20
ZOD1ORIG	96	40
ZOD1RBL	96	80







---

## Appendix A. Accessibility

Accessible publications for this product are offered through [IBM Documentation for z/OS \(www.ibm.com/docs/en/zos\)](http://www.ibm.com/docs/en/zos).

If you experience difficulty with the accessibility of any z/OS documentation see [How to Send Feedback to IBM](#) to leave documentation feedback.







## Notices

---

This information was developed for products and services that are offered in the USA or elsewhere.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

*IBM Director of Licensing  
IBM Corporation  
North Castle Drive, MD-NC119  
Armonk, NY 10504-1785  
United States of America*

For license inquiries regarding double-byte character set (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

*Intellectual Property Licensing  
Legal and Intellectual Property Law  
IBM Japan Ltd.  
19-21, Nihonbashi-Hakozakicho, Chuo-ku  
Tokyo 103-8510, Japan*

**The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law:** INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

This information could include missing, incorrect, or broken hyperlinks. Hyperlinks are maintained in only the HTML plug-in output for IBM Documentation. Use of hyperlinks in other output formats of this information is at your own risk.

Any references in this information to non-IBM websites are provided for convenience only and do not in any manner serve as an endorsement of those websites. The materials at those websites are not part of the materials for this IBM product and use of those websites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

*IBM Corporation  
Site Counsel  
2455 South Road*



Poughkeepsie, NY 12601-5400  
USA

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

All statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

#### COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. The sample programs are provided "AS IS", without warranty of any kind. IBM shall not be liable for any damages arising out of your use of the sample programs.

## Terms and conditions for product documentation

---

Permissions for the use of these publications are granted subject to the following terms and conditions.

### **Applicability**

These terms and conditions are in addition to any terms of use for the IBM website.

### **Personal use**

You may reproduce these publications for your personal, noncommercial use provided that all proprietary notices are preserved. You may not distribute, display or make derivative work of these publications, or any portion thereof, without the express consent of IBM.

### **Commercial use**

You may reproduce, distribute and display these publications solely within your enterprise provided that all proprietary notices are preserved. You may not make derivative works of these publications, or



reproduce, distribute or display these publications or any portion thereof outside your enterprise, without the express consent of IBM.

## **Rights**

Except as expressly granted in this permission, no other permissions, licenses or rights are granted, either express or implied, to the publications or any information, data, software or other intellectual property contained therein.

IBM reserves the right to withdraw the permissions granted herein whenever, in its discretion, the use of the publications is detrimental to its interest or, as determined by IBM, the above instructions are not being properly followed.

You may not download, export or re-export this information except in full compliance with all applicable laws and regulations, including all United States export laws and regulations.

IBM MAKES NO GUARANTEE ABOUT THE CONTENT OF THESE PUBLICATIONS. THE PUBLICATIONS ARE PROVIDED "AS-IS" AND WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT, AND FITNESS FOR A PARTICULAR PURPOSE.

## **IBM Online Privacy Statement**

---

IBM Software products, including software as a service solutions, ("Software Offerings") may use cookies or other technologies to collect product usage information, to help improve the end user experience, to tailor interactions with the end user, or for other purposes. In many cases no personally identifiable information is collected by the Software Offerings. Some of our Software Offerings can help enable you to collect personally identifiable information. If this Software Offering uses cookies to collect personally identifiable information, specific information about this offering's use of cookies is set forth below.

Depending upon the configurations deployed, this Software Offering may use session cookies that collect each user's name, email address, phone number, or other personally identifiable information for purposes of enhanced user usability and single sign-on configuration. These cookies can be disabled, but disabling them will also eliminate the functionality they enable.

If the configurations deployed for this Software Offering provide you as customer the ability to collect personally identifiable information from end users via cookies and other technologies, you should seek your own legal advice about any laws applicable to such data collection, including any requirements for notice and consent.

For more information about the use of various technologies, including cookies, for these purposes, see IBM's Privacy Policy at [ibm.com/privacy](http://ibm.com/privacy) and IBM's Online Privacy Statement at [ibm.com/privacy/details](http://ibm.com/privacy/details) in the section entitled "Cookies, Web Beacons and Other Technologies," and the "IBM Software Products and Software-as-a-Service Privacy Statement" at [ibm.com/software/info/product-privacy](http://ibm.com/software/info/product-privacy).

## **Policy for unsupported hardware**

---

Various z/OS elements, such as DFSMSdfp, JES2, and MVS, contain code that supports specific hardware servers or devices. In some cases, this device-related element support remains in the product even after the hardware devices pass their announced End of Service date. z/OS may continue to service element code; however, it will not provide service related to unsupported hardware devices. Software problems related to these devices will not be accepted for service, and current service activity will cease if a problem is determined to be associated with out-of-support devices. In such cases, fixes will not be issued.

## **Minimum supported hardware**

---

The minimum supported hardware for z/OS releases identified in z/OS announcements can subsequently change when service for particular servers or devices is withdrawn. Likewise, the levels of other software products supported on a particular release of z/OS are subject to the service support lifecycle of those



products. Therefore, z/OS and its product publications (for example, panels, samples, messages, and product documentation) can include references to hardware and software that is no longer supported.

- For information about software support lifecycle, see: [IBM Lifecycle Support for z/OS \(www.ibm.com/software/support/systemsz/lifecycle\)](http://www.ibm.com/software/support/systemsz/lifecycle)
- For information about currently-supported IBM hardware, contact your IBM representative.

## Trademarks

---

IBM, the IBM logo, and ibm.com are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at [Copyright and Trademark information \(www.ibm.com/legal/copytrade.shtml\)](http://www.ibm.com/legal/copytrade.shtml).

Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

Java™ and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.

The registered trademark Linux® is used pursuant to a sublicense from the Linux Foundation, the exclusive licensee of Linus Torvalds, owner of the mark on a worldwide basis.

UNIX is a registered trademark of The Open Group in the United States and other countries.



---

# Index

## A

- accessibility
  - contact IBM [1027](#)
- assistive technologies [1027](#)

## C

- contact
  - z/OS [1027](#)

## K

- keyboard
  - navigation [1027](#)
  - PF keys [1027](#)
  - shortcut keys [1027](#)

## N

- navigation
  - keyboard [1027](#)

## S

- shortcut keys [1027](#)

## T

- trademarks [1032](#)

## U

- user interface
  - ISPF [1027](#)
  - TSO/E [1027](#)













Product Number: 5655-ZOS

GA32-1014-70

