z/OS V2R2 MVS Data Areas Volume 1 (ABE - IAX)

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Before using this information and the product it supports, be sure to read the general information under “Notices” on page 1749.

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Contents

How to send your comments to IBM xxv
If you have a technical problem xxv

Chapter 1. ABEP Information 1
ABEP Programming Interface Information 1
ABEP Heading Information 1
ABEP mapping 1

Chapter 2. ACA Information 3
ACA Heading Information 3
ACA mapping 3

Chapter 3. ACE Information 5
ACE Heading Information 5
ACE mapping 5

Chapter 4. ADB Information 9
ADB Heading Information 9
ADB mapping 9

Chapter 5. ADSR Information 11
ADSR Programming Interface Information 11
ADSR Heading Information 11
ADSR mapping 11

Chapter 6. ADYENF Information 15
ADYENF Programming Interface Information 15
ADYENF Heading Information 15
ADYENF mapping 15

Chapter 7. ADYEVENT Information 19
ADYEVENT Heading Information 19
ADYEVENT mapping 19

Chapter 8. AE Information 21
AE Heading Information 21
AE mapping 21

Chapter 9. AHLMCWRC Information 23
AHLMCWRC Programming Interface Information 23
AHLMCWRC Heading Information 23
AHLMCWRC mapping 23

Chapter 10. AIA Information 29
AIA Heading Information 29
AIA mapping 29

Chapter 11. AMDDATA Information 37
AMDDATA Programming Interface Information 37
AMDDATA Heading Information 37
AMDDATA mapping 37

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Chapter 12. AQAT Information . . . 63
AQAT Heading Information . . . 63
AQAT mapping . . . 63

Chapter 13. AQST Information . . . 65
AQST Heading Information . . . 65
AQST mapping . . . 65

Chapter 14. ASASYMBP Information . . . 67
ASASYMBP Programming Interface Information . . . 67
ASASYMBP Heading Information . . . 67
ASASYMBP mapping . . . 68

Chapter 15. ASBEXSCH Information . . . 83
ASBEXSCH Programming Interface Information . . . 83
ASBEXSCH Heading Information . . . 83
ASBEXSCH mapping . . . 83

Chapter 16. ASCB Information . . . 87
ASCB Programming Interface Information . . . 87
ASCB Heading Information . . . 87
ASCB mapping . . . 88

Chapter 17. ASEO Information . . . 107
ASEO Programming Interface Information . . . 107
ASEO Heading Information . . . 107
ASEO mapping . . . 107

Chapter 18. ASMHD Information . . . 109
ASMHD Heading Information . . . 109
ASMHD mapping . . . 109

Chapter 19. ASMVT Information . . . 113
ASMVT Heading Information . . . 113
ASMVT mapping . . . 113

Chapter 20. ASPCT Information . . . 127
ASPCT Heading Information . . . 127
ASPCT mapping . . . 127

Chapter 21. ASREPL Information . . . 133
ASREPL Programming Interface Information . . . 133
ASREPL Heading Information . . . 133
ASREPL mapping . . . 133

Chapter 22. ASSB Information . . . 135
ASSB Programming Interface Information . . . 135
ASSB Heading Information . . . 136
ASSB mapping . . . 136

Chapter 23. ASTE Information . . . 157
ASTE Heading Information . . . 157
ASTE mapping . . . 157

Chapter 24. ASVT Information . . . 161
ASVT Programming Interface Information . . . 161
ASVT Heading Information . . . 161
ASVT mapping . . . 161

Chapter 25. ASWA Information . . . 165
ASWA Heading Information . . . 165
ASWA mapping . . . 165

Chapter 26. ASXB Information . . . 169
ASXB Programming Interface Information . . . 169
ASXB Heading Information. . . . 169
ASXB mapping . . . 169

Chapter 27. ATA Information . . . 175
ATA Heading Information . . . 175
ATA mapping . . . 175

Chapter 28. ATBAPPCA Information . . . 179
ATBAPPCA Programming Interface Information. . . . 179
ATBAPPCA Heading Information . . . 179
ATBAPPCA mapping. . . . 179

Chapter 29. ATBASASM Information . . . 181
ATBASASM Programming Interface Information . . . 181
ATBASASM Heading Information . . . 181
ATBASASM mapping . . . 181

Chapter 30. ATBCSASM Information . . . 185
ATBCSASM Programming Interface Information . . . 185
ATBCSASM Heading Information . . . 185
ATBCSASM mapping . . . 185

Chapter 31. ATBCTASM Information . . . 195
ATBCTASM Programming Interface Information . . . 195
ATBCTASM Heading Information . . . 195
ATBCTASM mapping . . . 195

Chapter 32. ATBDFTP Information . . . 199
ATBDFTP Programming Interface Information . . . 199
ATBDFTP Heading Information . . . 199
ATBDFTP mapping . . . 199

Chapter 33. ATBDFTPE Information . . . 203
ATBDFTPE Programming Interface Information . . . 203
ATBDFTPE Heading Information . . . 203
ATBDFTPE mapping . . . 203

Chapter 34. ATBEXCON Information. . . . 205
ATBEXCON Programming Interface Information . . . 205
ATBEXCON Heading Information . . . 205
ATBEXCON mapping . . . 205

Chapter 35. ATBEXCOS Information. . . . 207
ATBEXCOS Programming Interface Information . . . 207
ATBEXCOS Heading Information. . . . 207
ATBEXCOS mapping . . . 207

Chapter 36. ATBSECB Information . . . 211
ATBSECB Programming Interface Information . . . 211
ATBSECB Heading Information . . . 211
ATBSECB mapping . . . 211

Chapter 37. ATBSERV Information . . . 215
ATBSERV Programming Interface Information . . . 215
ATBSERV Heading Information . . . 215
ATBSERV mapping . . . 215

Chapter 38. ATBXCFMS Information . . . 221
ATBXCFMS Programming Interface Information . . . 221
ATBXCFMS Heading Information . . . 221
ATBXCFMS mapping . . . 221

Chapter 39. ATRFZQRY Information . . . 227
ATRFZQRY Programming Interface Information . . . 227
ATRFZQRY Heading Information . . . 227
ATRFZQRY mapping . . . 227

Chapter 40. ATRFZSRV Information . . . 237
ATRFZSRV Programming Interface Information . . . 237
ATRFZSRV Heading Information . . . 237
ATRFZSRV mapping . . . 237

Chapter 41. ATRRASM Information . . . 243
ATRRASM Programming Interface Information . . . 243
ATRRASM Heading Information . . . 243
ATRRASM mapping . . . 245

Chapter 42. ATRSASM Information . . . 329
ATRSASM Programming Interface Information . . . 329
ATRSASM Heading Information . . . 329
ATRSASM mapping . . . 329

Chapter 43. ATRSZAUR Information . . . 331
ATRSZAUR Programming Interface Information . . . 331
ATRSZAUR Heading Information . . . 331
ATRSZAUR mapping . . . 333

Chapter 44. ATRSZPUR Information . . . 337
ATRSZPUR Programming Interface Information . . . 337
ATRSZPUR Heading Information . . . 337
ATRSZPUR mapping . . . 339

Chapter 45. ATRTZRMD Information . . . 345
ATRTZRMD Programming Interface Information . . . 345
ATRTZRMD Heading Information . . . 345
ATRTZRMD mapping . . . 345

Chapter 46. ATTCH Information . . . 349
ATTCH Heading Information . . . 349
ATTCH mapping . . . 349

Chapter 47. AXAT Information . . . 353
AXAT Heading Information . . . 353
AXAT mapping . . . 353

Chapter 48. AXRZARG Information . . . 355
AXRZARG Programming Interface Information . . . 355
AXRZARG Heading Information . . . 355
AXRZARG mapping . . . 355

Chapter 49. BASEA Information 381
BASEA Heading Information 381
BASEA mapping 381

Chapter 50. BEB Information 391
BEB Heading Information 391
BEB mapping 391

Chapter 51. BLSABDPL Information 395
BLSABDPL Programming Interface Information 395
BLSABDPL Heading Information 395
BLSABDPL mapping 396

Chapter 52. BLSACBSP Information 411
BLSACBSP Programming Interface Information 411
BLSACBSP Heading Information 411
BLSACBSP mapping 411

Chapter 53. BLSADSY Information 419
BLSADSY Programming Interface Information 419
BLSADSY Heading Information 419
BLSADSY mapping 419

Chapter 54. BLSAPCQE Information 421
BLSAPCQE Programming Interface Information 421
BLSAPCQE Heading Information. 421
BLSAPCQE mapping 421

Chapter 55. BLSQEXTP Information 429
BLSQEXTP Programming Interface Information 429
BLSQEXTP Heading Information 429
BLSQEXTP mapping 429

Chapter 56. BLSQFXL Information 431
BLSQFXL Programming Interface Information 431
BLSQFXL Heading Information 431
BLSQFXL mapping 431

Chapter 57. BLSQNTKP Information. 435
BLSQNTKP Programming Interface Information. 435
BLSQNTKP Heading Information 435
BLSQNTKP mapping. 435

Chapter 58. BLSRDATC Information 439
BLSRDATC Programming Interface Information 439
BLSRDATC Heading Information. 439
BLSRDATC mapping 439

Chapter 59. BLSRDATS Information 443
BLSRDATS Programming Interface Information 443
BLSRDATS Heading Information 443
BLSRDATS mapping 443

Chapter 60. BLSRDATT Information 447
BLSRDATT Programming Interface Information 447
BLSRDATT Heading Information 447
BLSRDATT mapping 447

Chapter 61. BLSRDA64 Information . . . 449
BLSRDA64 Programming Interface Information . . . 449
BLSRDA64 Heading Information . . . 449
BLSRDA64 mapping . . . 449

Chapter 62. BLSRDRPX Information. . . . 453
BLSRDRPX Programming Interface Information . . . 453
BLSRDRPX Heading Information . . . 453
BLSRDRPX mapping . . . 453

Chapter 63. BLSRDR64 Information . . . 461
BLSRDR64 Programming Interface Information . . . 461
BLSRDR64 Heading Information . . . 461
BLSRDR64 mapping . . . 461

Chapter 64. BLSRESSY Information . . . 469
BLSRESSY Programming Interface Information . . . 469
BLSRESSY Heading Information . . . 469
BLSRESSY mapping . . . 469

Chapter 65. BLSRES64 Information . . . 477
BLSRES64 Programming Interface Information . . . 477
BLSRES64 Heading Information . . . 477
BLSRES64 mapping . . . 477

Chapter 66. BLSRNAMP Information . . . 485
BLSRNAMP Programming Interface Information . . . 485
BLSRNAMP Heading Information . . . 485
BLSRNAMP mapping . . . 485

Chapter 67. BLSRPRD Information . . . 489
BLSRPRD Programming Interface Information . . . 489
BLSRPRD Heading Information . . . 489
BLSRPRD mapping . . . 489

Chapter 68. BLSRPWHS Information . . . 515
BLSRPWHS Programming Interface Information. . . . 515
BLSRPWHS Heading Information . . . 515
BLSRPWHS mapping. . . . 515

Chapter 69. BLSRPW64 Information. . . . 523
BLSRPW64 Programming Interface Information . . . 523
BLSRPW64 Heading Information . . . 523
BLSRPW64 mapping . . . 523

Chapter 70. BLSRSASY Information. . . . 531
BLSRSASY Programming Interface Information . . . 531
BLSRSASY Heading Information . . . 531
BLSRSASY mapping . . . 531

Chapter 71. BLSRSA64 Information . . . 539
BLSRSA64 Programming Interface Information . . . 539
BLSRSA64 Heading Information . . . 539
BLSRSA64 mapping . . . 539

Chapter 72. BLSRXMSP Information . . . 547
BLSRXMSP Programming Interface Information . . . 547
BLSRXMSP Heading Information . . . 547

BLSRXMSP mapping 547

Chapter 73. BLSRXSSP Information 551
BLSRXSSP Programming Interface Information 551
BLSRXSSP Heading Information 551
BLSRXSSP mapping 551

Chapter 74. BLSUPPR2 Information 555
BLSUPPR2 Programming Interface Information 555
BLSUPPR2 Heading Information 555
BLSUPPR2 mapping 555

Chapter 75. BPXYOSMF Information 559
BPXYOSMF Programming Interface Information. 559
BPXYOSMF Heading Information 559
BPXYOSMF mapping. 559

Chapter 76. BPXYPEDB Information. 563
BPXYPEDB Programming Interface Information 563
BPXYPEDB Heading Information. 563
BPXYPEDB mapping 563

Chapter 77. BPXZOAPB Information 569
BPXZOAPB Programming Interface Information. 569
BPXZOAPB Heading Information 569
BPXZOAPB mapping. 569

Chapter 78. BPXZODMV Information 571
BPXZODMV Programming Interface Information 571
BPXZODMV Heading Information 571
BPXZODMV mapping 572

Chapter 79. CAFM Information 617
CAFM Heading Information 617
CAFM mapping 617

Chapter 80. CBDZCIP Information. 621
CBDZCIP Programming Interface Information 621
CBDZCIP Heading Information 621
CBDZCIP mapping 621

Chapter 81. CBDZDCP Information 631
CBDZDCP Programming Interface Information 631
CBDZDCP Heading Information 631
CBDZDCP mapping 631

Chapter 82. CBDZDEVL Information. 635
CBDZDEVL Programming Interface Information 635
CBDZDEVL Heading Information 635
CBDZDEVL mapping 635

Chapter 83. CBDZDFP Information 639
CBDZDFP Programming Interface Information 639
CBDZDFP Heading Information 639
CBDZDFP mapping 639

Chapter 84. CBDZGETM Information 647
CBDZGETM Programming Interface Information 647

CBDZGETM Heading Information 647
CBDZGETM mapping 647

Chapter 85. CBDZGIP Information 651
CBDZGIP Programming Interface Information 651
CBDZGIP Heading Information 651
CBDZGIP mapping 652

Chapter 86. CBDZHCEX Information 657
CBDZHCEX Programming Interface Information 657
CBDZHCEX Heading Information 657
Constants for CBDZHCEX 657

Chapter 87. CBDZHIEX Information 663
CBDZHIEX Programming Interface Information 663
CBDZHIEX Heading Information. 663
CBDZHIEX mapping 663

Chapter 88. CBDZHOEX Information 665
CBDZHOEX Programming Interface Information 665
CBDZHOEX Heading Information 665
CBDZHOEX mapping 665

Chapter 89. CBDZHRB Information 677
CBDZHRB Programming Interface Information 677
CBDZHRB Heading Information 677
CBDZHRB mapping 677

Chapter 90. CBDZIODV Information 683
CBDZIODV Programming Interface Information. 683
CBDZIODV Heading Information 683
CBDZIODV mapping. 683

Chapter 91. CBDZITRH Information 695
CBDZITRH Programming Interface Information 695
CBDZITRH Heading Information. 695
CBDZITRH mapping 695

Chapter 92. CBDZMSG Information 697
CBDZMSG Programming Interface Information 697
CBDZMSG Heading Information 697
CBDZMSG mapping 697

Chapter 93. CBDZSIP Information. 703
CBDZSIP Programming Interface Information 703
CBDZSIP Heading Information 703
CBDZSIP mapping 703

Chapter 94. CBDZUCA Information 709
CBDZUCA Programming Interface Information 709
CBDZUCA Heading Information 709
CBDZUCA mapping 709

Chapter 95. CBDZUIP Information. 713
CBDZUIP Programming Interface Information 713
CBDZUIP Heading Information 713
CBDZUIP mapping 713

Chapter 96. CBLS Information . . . 721
CBLS Heading Information . . . 721
CBLS mapping . . . 721

Chapter 97. CDE Information . . . 727
CDE Programming Interface Information . . . 727
CDE Heading Information . . . 727
CDE mapping . . . 727

Chapter 98. CIB Information . . . 733
CIB Programming Interface Information . . . 733
CIB Heading Information . . . 733
CIB mapping . . . 733

Chapter 99. CISP Information . . . 737
CISP Heading Information . . . 737
CISP mapping . . . 737

Chapter 100. CLTE Information . . . 739
CLTE Heading Information . . . 739
CLTE mapping . . . 739

Chapter 101. CMB Information . . . 743
CMB Programming Interface Information . . . 743
CMB Heading Information . . . 743
CMB mapping . . . 743

Chapter 102. CMCT Information . . . 745
CMCT Programming Interface Information . . . 745
CMCT Heading Information . . . 745
CMCT mapping . . . 746

Chapter 103. CMDX Information . . . 753
CMDX Programming Interface Information . . . 753
CMDX Heading Information . . . 753
CMDX mapping . . . 753

Chapter 104. CNMB Information . . . 759
CNMB Programming Interface Information . . . 759
CNMB Heading Information . . . 759
CNMB mapping . . . 759

Chapter 105. CNZMYLGN Information . . . 761
CNZMYLGN Programming Interface Information . . . 761
CNZMYLGN Heading Information . . . 761
CNZMYLGN mapping . . . 761

Chapter 106. CNZMYM2S Information . . . 763
CNZMYM2S Programming Interface Information . . . 763
CNZMYM2S Heading Information . . . 763
CNZMYM2S mapping . . . 763

Chapter 107. CNZMYQUA Information . . . 765
CNZMYQUA Programming Interface Information . . . 765
CNZMYQUA Heading Information . . . 765
CNZMYQUA mapping . . . 765

Chapter 108. CNZMYSMF Information . . . 769
CNZMYSMF Programming Interface Information . . . 769
CNZMYSMF Heading Information . . . 769
CNZMYSMF mapping . . . 769

Chapter 109. CNZMYWMX Information . . . 771
CNZMYWMX Programming Interface Information . . . 771
CNZMYWMX Heading Information . . . 771
CNZMYWMX mapping . . . 771

Chapter 110. CNZTRPL Information . . . 775
CNZTRPL Programming Interface Information . . . 775
CNZTRPL Heading Information . . . 775
CNZTRPL mapping . . . 775

Chapter 111. COM Information . . . 779
COM Programming Interface Information . . . 779
COM Heading Information . . . 779
COM mapping . . . 779

Chapter 112. CONV Information . . . 781
CONV Programming Interface Information . . . 781
CONV Heading Information . . . 781
CONV mapping . . . 781

Chapter 113. CPAB Information . . . 791
CPAB Heading Information . . . 791
CPAB mapping . . . 791

Chapter 114. CPMT Information . . . 795
CPMT Heading Information . . . 795
CPMT mapping . . . 795

Chapter 115. CQE Information . . . 797
CQE Heading Information . . . 797
CQE mapping . . . 797

Chapter 116. CRGASM Information . . . 799
CRGASM Programming Interface Information . . . 799
CRGASM Heading Information . . . 799
CRGASM mapping . . . 799

Chapter 117. CRW Information . . . 805
CRW Heading Information . . . 805
CRW mapping . . . 805

Chapter 118. CRWQ Information . . . 807
CRWQ Heading Information . . . 807
CRWQ mapping . . . 807

Chapter 119. CSCB Information . . . 811
CSCB Heading Information . . . 811
CSCB mapping . . . 811

Chapter 120. CSD Information . . . 823
CSD Programming Interface Information . . . 823
CSD Heading Information . . . 823
CSD mapping . . . 823

Chapter 121. CSRBPASM Information 833
CSRBPASM Programming Interface Information 833
CSRBPASM Heading Information 833
CSRBPASM mapping 833

Chapter 122. CSRCPASM Information 835
CSRCPASM Programming Interface Information. 835
CSRCPASM Heading Information 835
CSRCPASM mapping. 835

Chapter 123. CSRC4ASM Information 839
CSRC4ASM Programming Interface Information. 839
CSRC4ASM Heading Information 839
CSRC4ASM mapping. 839

Chapter 124. CSRLJASM Information 841
CSRLJASM Programming Interface Information 841
CSRLJASM Heading Information 841
CSRLJASM mapping 841

Chapter 125. CSRSIIDF Information 843
CSRSIIDF Programming Interface Information 843
CSRSIIDF Heading Information 843
CSRSIIDF mapping 844

Chapter 126. CSRYCMPD Information 869
CSRYCMPD Programming Interface Information 869
CSRYCMPD Heading Information 869
CSRYCMPD mapping 869

Chapter 127. CSRYCMPS Information 873
CSRYCMPS Programming Interface Information. 873
CSRYCMPS Heading Information 873
CSRYCMPS mapping. 873

Chapter 128. CSRYL16J Information 879
CSRYL16J Programming Interface Information 879
CSRYL16J Heading Information 879
CSRYL16J mapping 879

Chapter 129. CSRYUNIC Information 883
CSRYUNIC Programming Interface Information 883
CSRYUNIC Heading Information. 883
CSRYUNIC mapping 883

Chapter 130. CSVAPFAA Information 901
CSVAPFAA Programming Interface Information 901
CSVAPFAA Heading Information. 901
CSVAPFAA mapping 901

Chapter 131. CSVDLAA Information 905
CSVDLAA Programming Interface Information 905
CSVDLAA Heading Information 905
CSVDLAA mapping 906

Chapter 132. CSVDLCB Information 915
CSVDLCB Programming Interface Information 915
CSVDLCB Heading Information 915

CSVDLCB mapping 915

Chapter 133. CSVDLENF Information 917
CSVDLENF Programming Interface Information 917
CSVDLENF Heading Information 917
CSVDLENF mapping 917

Chapter 134. CSVEXAA Information 919
CSVEXAA Programming Interface Information 919
CSVEXAA Heading Information 919
CSVEXAA mapping 919

Chapter 135. CSVEXRET Information 929
CSVEXRET Programming Interface Information 929
CSVEXRET Heading Information 929
CSVEXRET mapping 929

Chapter 136. CSVEXTI Information 939
CSVEXTI Programming Interface Information 939
CSVEXTI Heading Information 939
CSVEXTI mapping 939

Chapter 137. CSVFTCHX Information 941
CSVFTCHX Programming Interface Information 941
CSVFTCHX Heading Information 941
CSVFTCHX mapping 941

Chapter 138. CSVLPRET Information 949
CSVLPRET Programming Interface Information 949
CSVLPRET Heading Information 949
CSVLPRET mapping 949

Chapter 139. CSVMODI Information 965
CSVMODI Programming Interface Information 965
CSVMODI Heading Information 965
CSVMODI mapping 965

Chapter 140. CSVRTAA Information 977
CSVRTAA Programming Interface Information 977
CSVRTAA Heading Information 977
CSVRTAA mapping 978

Chapter 141. CSVTTEST Information 993
CSVTTEST Programming Interface Information 993
CSVTTEST Heading Information 993
CSVTTEST mapping 993

Chapter 142. CSVXMENV Information 995
CSVXMENV Programming Interface Information 995
CSVXMENV Heading Information 995
CSVXMENV mapping 995

Chapter 143. CTSS Information 997
CTSS Programming Interface Information 997
CTSS Heading Information 997
CTSS mapping 997

Chapter 144. CTXASM Information 1007
CTXASM Programming Interface Information 1007
CTXASM Heading Information 1007
CTXASM mapping 1007

Chapter 145. CTXI Information 1017
CTXI Programming Interface Information 1017
CTXI Heading Information 1017
CTXI mapping 1017

Chapter 146. CTXT Information 1021
CTXT Programming Interface Information 1021
CTXT Heading Information 1021
CTXT mapping 1021

Chapter 147. CVT Information 1045
CVT Programming Interface Information 1045
CVT Heading Information 1046
CVT mapping 1047

Chapter 148. CXSA Information 1093
CXSA Heading Information 1093
CXSA mapping 1093

Chapter 149. CXT Information 1097
CXT Programming Interface Information 1097
CXT Heading Information 1097
CXT mapping 1097

Chapter 150. DAIT Information 1105
DAIT Heading Information 1105
DAIT mapping 1105

Chapter 151. DALT Information 1107
DALT Heading Information 1107
DALT mapping 1107

Chapter 152. DCCB Information 1109
DCCB Heading Information 1109
DCCB mapping 1109

Chapter 153. DCCD Information 1113
DCCD Programming Interface Information 1113
DCCD Heading Information 1113
DCCD mapping 1113

Chapter 154. DCQ Information 1123
DCQ Heading Information 1123
DCQ mapping 1123

Chapter 155. DDRCOM Information 1125
DDRCOM Heading Information 1125
DDRCOM mapping 1125

Chapter 156. DDT Information 1139
DDT Heading Information 1139
DDT mapping 1139

Chapter 157. DEIB Information 1143
DEIB Heading Information 1143
DEIB mapping 1143

Chapter 158. DFE Information 1145
DFE Heading Information 1145
DFE mapping 1145

Chapter 159. DFLM Information 1147
DFLM Heading Information 1147
DFLM mapping 1147

Chapter 160. DMDT Information 1151
DMDT Heading Information 1151
DMDT mapping 1151

Chapter 161. DOCNP Information 1157
DOCNP Programming Interface Information 1157
DOCNP Heading Information 1157
DOCNP mapping 1157

Chapter 162. DOMC Information 1159
DOMC Programming Interface Information 1159
DOMC Heading Information 1159
DOMC mapping 1159

Chapter 163. DOMPL Information 1165
DOMPL Heading Information 1165
DOMPL mapping 1165

Chapter 164. DQE Information 1167
DQE Heading Information 1167
DQE mapping 1167

Chapter 165. DSAB Information 1169
DSAB Programming Interface Information 1169
DSAB Heading Information 1169
DSAB mapping 1169

Chapter 166. DSABQDB Information 1175
DSABQDB Heading Information 1175
DSABQDB mapping 1175

Chapter 167. DSCA Information 1179
DSCA Heading Information 1179
DSCA mapping 1179

Chapter 168. DSD Information 1185
DSD Programming Interface Information 1185
DSD Heading Information 1185
DSD mapping 1185

Chapter 169. DSERV Information 1187
DSERV Programming Interface Information 1187
DSERV Heading Information 1187
DSERV mapping 1187

Chapter 170. DSNT Information . . . 1193
DSNT Heading Information . . . 1193
DSNT mapping . . . 1193

Chapter 171. DSPD Information . . . 1195
DSPD Heading Information . . . 1195
DSPD mapping . . . 1195

Chapter 172. DSTAT Information . . . 1199
DSTAT Programming Interface Information . . . 1199
DSTAT Heading Information . . . 1199
DSTAT mapping . . . 1199

Chapter 173. DSVCB Information . . . 1203
DSVCB Heading Information . . . 1203
DSVCB mapping . . . 1203

Chapter 174. EAECB Information . . . 1211
EAECB Programming Interface Information . . . 1211
EAECB Heading Information . . . 1211
EAECB mapping . . . 1211

Chapter 175. ECB Information . . . 1213
ECB Programming Interface Information . . . 1213
ECB Heading Information . . . 1213
ECB mapping . . . 1214

Chapter 176. ECVT Information . . . 1219
ECVT Programming Interface Information . . . 1219
ECVT Heading Information . . . 1220
ECVT mapping . . . 1221

Chapter 177. EDT Information . . . 1249
EDT Heading Information . . . 1249
EDT mapping . . . 1249

Chapter 178. EED Information . . . 1261
EED Heading Information . . . 1261
EED mapping . . . 1261

Chapter 179. EMPARMS Information . . . 1273
EMPARMS Programming Interface Information . . . 1273
EMPARMS Heading Information . . . 1273
EMPARMS mapping . . . 1273

Chapter 180. ENFCT Information . . . 1277
ENFCT Programming Interface Information . . . 1277
ENFCT Heading Information . . . 1277
ENFCT mapping . . . 1277

Chapter 181. ENFDS Information . . . 1281
ENFDS Heading Information . . . 1281
ENFDS mapping . . . 1281

Chapter 182. ENFLS Information . . . 1283
ENFLS Heading Information . . . 1283
ENFLS mapping . . . 1283

Chapter 183. ENFPM Information 1287
ENFPM Programming Interface Information. 1287
ENFPM Heading Information 1287
ENFPM mapping. 1287

Chapter 184. ENFVT Information. 1295
ENFVT Heading Information. 1295
ENFVT mapping 1295

Chapter 185. ENV Information 1297
ENV Heading Information 1297
ENV mapping. 1297

Chapter 186. EPAL Information 1299
EPAL Programming Interface Information 1299
EPAL Heading Information 1299
EPAL mapping 1299

Chapter 187. EPAM Information 1301
EPAM Programming Interface Information 1301
EPAM Heading Information 1301
EPAM mapping 1301

Chapter 188. EPCB Information 1303
EPCB Heading Information 1303
EPCB mapping 1303

Chapter 189. EPIE Information 1305
EPIE Programming Interface Information. 1305
EPIE Heading Information 1305
EPIE mapping. 1305

Chapter 190. EQSRD Information 1313
EQSRD Heading Information. 1313
EQSRD mapping 1313

Chapter 191. ERPMSG Information. 1317
ERPMSG Heading Information 1317
ERPMSG mapping 1317

Chapter 192. ESA Information 1323
ESA Heading Information 1323
ESA mapping 1323

Chapter 193. ESPI Information 1327
ESPI Heading Information. 1327
ESPI mapping 1327

Chapter 194. ESTA Information 1329
ESTA Heading Information 1329
ESTA mapping 1329

Chapter 195. ESW Information 1331
ESW Heading Information 1331
ESW mapping. 1331

Chapter 196. ESWL Information . . . 1335
ESWL Heading Information . . . 1335
ESWL mapping . . . 1335

Chapter 197. ETD0 Information . . . 1339
ETD0 Programming Interface Information . . . 1339
ETD0 Heading Information . . . 1339
ETD0 mapping . . . 1339

Chapter 198. ETD1 Information . . . 1343
ETD1 Programming Interface Information . . . 1343
ETD1 Heading Information . . . 1343
ETD1 mapping . . . 1343

Chapter 199. ETE Information . . . 1349
ETE Heading Information . . . 1349
ETE mapping . . . 1349

Chapter 200. ETIB Information . . . 1353
ETIB Heading Information . . . 1353
ETIB mapping . . . 1353

Chapter 201. ETIORB Information . . . 1357
ETIORB Heading Information . . . 1357
ETIORB mapping . . . 1357

Chapter 202. EVNT Information . . . 1361
EVNT Heading Information . . . 1361
EVNT mapping . . . 1361

Chapter 203. EWA Information . . . 1363
EWA Heading Information . . . 1363
EWA mapping . . . 1363

Chapter 204. FBQE Information . . . 1371
FBQE Heading Information . . . 1371
FBQE mapping . . . 1371

Chapter 205. FFAP Information . . . 1373
FFAP Programming Interface Information . . . 1373
FFAP Heading Information . . . 1373
FFAP mapping . . . 1373

Chapter 206. FIB Information . . . 1377
FIB Heading Information . . . 1377
FIB mapping . . . 1377

Chapter 207. FIX Information . . . 1387
FIX Heading Information . . . 1387
FIX mapping . . . 1388

Chapter 208. FMLE Information . . . 1391
FMLE Heading Information . . . 1391
FMLE mapping . . . 1391

Chapter 209. FMTB Information . . . 1393
FMTB Programming Interface Information . . . 1393

FMTB Heading Information 1393
FMTB mapping 1393

Chapter 210. FQE Information 1397
FQE Heading Information 1397
FQE mapping 1397

Chapter 211. FRRS Information 1399
FRRS Programming Interface Information 1399
FRRS Heading Information 1399
FRRS mapping 1400

Chapter 212. FSIP Information. 1405
FSIP Programming Interface Information 1405
FSIP Heading Information. 1405
FSIP mapping 1405

Chapter 213. FTPT Information 1425
FTPT Heading Information 1425
FTPT mapping 1425

Chapter 214. FUNCFLGS Information. 1429
FUNCFLGS Programming Interface Information 1429
FUNCFLGS Heading Information 1429
FUNCFLGS mapping 1429

Chapter 215. GDA Information. 1435
GDA Programming Interface Information 1435
GDA Heading Information 1436
GDA mapping 1436

Chapter 216. GRPL Information 1451
GRPL Heading Information 1451
GRPL mapping 1451

Chapter 217. GSDA Information 1453
GSDA Heading Information 1453
GSDA mapping 1453

Chapter 218. GTD Information. 1459
GTD Heading Information 1459
GTD mapping. 1459

Chapter 219. GTO Information. 1461
GTO Programming Interface Information. 1461
GTO Heading Information 1461
GTO mapping. 1461

Chapter 220. GTS Information 1467
GTS Programming Interface Information 1467
GTS Heading Information. 1467
GTS mapping 1467

Chapter 221. GTW Information 1469
GTW Heading Information 1469
GTW mapping 1469

Chapter 222. GTZZCNI Information 1475
GTZZCNI Programming Interface Information 1475
GTZZCNI Heading Information 1475
GTZZCNI mapping 1475

Chapter 223. GTZZPRT Information 1479
GTZZPRT Programming Interface Information 1479
GTZZPRT Heading Information 1479
GTZZPRT mapping 1479

Chapter 224. GTZZQRY Information 1483
GTZZQRY Programming Interface Information 1483
GTZZQRY Heading Information 1483
GTZZQRY mapping 1483

Chapter 225. GTZZSMFU Information 1505
GTZZSMFU Programming Interface Information 1505
GTZZSMFU Heading Information 1505
GTZZSMFU mapping 1505

Chapter 226. GTZZTRK Information 1511
GTZZTRK Programming Interface Information 1511
GTZZTRK Heading Information 1511
GTZZTRK mapping 1511

Chapter 227. GVT Information 1519
GVT Programming Interface Information 1519
GVT Heading Information 1519
GVT mapping 1520

Chapter 228. GWT Information 1543
GWT Heading Information 1543
GWT mapping 1543

Chapter 229. HCL Information 1545
HCL Programming Interface Information 1545
HCL Heading Information 1545
HCL mapping 1545

Chapter 230. HIDT Information 1553
HIDT Heading Information 1553
HIDT mapping 1556

Chapter 231. HISYCTRS Information 1559
HISYCTRS Programming Interface Information 1559
HISYCTRS Heading Information 1559
HISYCTRS mapping 1559

Chapter 232. HISYMT Information 1579
HISYMT Programming Interface Information 1579
HISYMT Heading Information 1579
HISYMT mapping 1579

Chapter 233. HMAA Information 1587
HMAA Programming Interface Information 1587
HMAA Heading Information 1587
HMAA mapping 1587

Chapter 234. HMPL Information 1595
HMPL Heading Information 1595
HMPL mapping 1595

Chapter 235. HWICIASM Information 1599
HWICIASM Programming Interface Information 1599
HWICIASM Heading Information 1599
HWICIASM mapping 1599

Chapter 236. HWIC2ASM Information. 1623
HWIC2ASM Programming Interface Information 1623
HWIC2ASM Heading Information 1623
HWIC2ASM mapping 1623

Chapter 237. HZSDPQE Information 1637
HZSDPQE Programming Interface Information. 1637
HZSDPQE Heading Information 1637
HZSDPQE mapping. 1637

Chapter 238. HZSMGB Information. 1643
HZSMGB Programming Interface Information 1643
HZSMGB Heading Information 1643
HZSMGB mapping 1643

Chapter 239. HZSPQE Information 1647
HZSPQE Programming Interface Information 1647
HZSPQE Heading Information 1647
HZSPQE mapping 1647

Chapter 240. HZSQUAA Information 1671
HZSQUAA Programming Interface Information 1671
HZSQUAA Heading Information 1671
HZSQUAA mapping 1671

Chapter 241. HZSZCONS Information. 1683
HZSZCONS Programming Interface Information 1683
HZSZCONS Heading Information 1683
HZSZCONS mapping 1683

Chapter 242. HZSZCPAR Information. 1715
HZSZCPAR Programming Interface Information 1715
HZSZCPAR Heading Information 1715
HZSZCPAR mapping 1715

Chapter 243. HZSZENF Information 1721
HZSZENF Programming Interface Information. 1721
HZSZENF Heading Information. 1721
HZSZENF mapping. 1721

Chapter 244. HZSZHCKL Information. 1725
HZSZHCKL Programming Interface Information 1725
HZSZHCKL Heading Information 1725
HZSZHCKL mapping 1725

Chapter 245. IARDRL Information 1733
IARDRL Programming Interface Information 1733
IARDRL Heading Information 1733
IARDRL mapping 1733

Chapter 246. IARDSD Information 1735
IARDSD Heading Information 1735
IARDSD mapping 1736

Chapter 247. IARRAX64 Information 1739
IARRAX64 Programming Interface Information 1739
IARRAX64 Heading Information 1739
IARRAX64 mapping. 1739

Chapter 248. IARRCE64 Information 1741
IARRCE64 Programming Interface Information. 1741
IARRCE64 Heading Information 1741
IARRCE64 mapping. 1741

Chapter 249. IARVRL Information 1743
IARVRL Programming Interface Information 1743
IARVRL Heading Information 1743
IARVRL mapping 1743

Chapter 250. IAXCNTPL Information 1745
IAXCNTPL Heading Information 1745
IAXCNTPL mapping 1745

Notices 1749
Policy for unsupported hardware 1750
Minimum supported hardware 1751

Trademarks. 1753

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Chapter 1. ABEP Information

ABEP Programming Interface Information

ABEP is a programming interface.

ABEP Heading Information

Common Name:	ABDUMP Exit Parameter List
Macro ID:	IHAABEPL
DSECT Name:	IHAABEPL
Owning Component:	ABDUMP (SCDMP)
Eye-Catcher ID:	ABEP Offset: 0 Length: 4
Storage Attributes:	Subpool: Caller-supplied Key: Caller-supplied Residency: Caller-supplied
Size:	IHAABEPL -- 36 bytes
Created by:	IEAVTABD (ABDUMP)
Pointed to by:	Register 1 on entry to pre-dump exit.
Serialization:	None required
Function:	This macro is the mapping for the predump exit parameter list of ABDUMP predump exits. It can be used to determine the abending jobname, module name, abend code, effective dump options. This information will aid in determining if the dump options should be changed or left as they are, or if the dump should be suppressed.

ABEP mapping

Table 1. Structure IHAABEPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IHAABEPL	G860P33
0	(0)	CHARACTER	4	ABEPID	PARMLIST ID G860P33
4	(4)	CHARACTER	8	ABEPJOBN	JOB NAME G860P33
12	(C)	CHARACTER	4	ABEPABND(0)	G860P33
12	(C)	CHARACTER	3	ABEPABC	ABEND CODE G860P33
15	(F)	CHARACTER	1	ABEPRES	RESERVED G860P33
16	(10)	SIGNED	4	ABEPSDWA	ADDRESS OF SDWA G860P33
20	(14)	CHARACTER	8	ABEPMODN	MODULE NAME G860P33
28	(1C)	SIGNED	4	ABEPSNAP	ADDRESS OF SNAP PARMLIST G860P33
32	(20)	SIGNED	4	ABEPLVRC(0)	G860P33
32	(20)	SIGNED	2	ABEPLVL	LEVEL INDICATOR G860P33
34	(22)	SIGNED	2	ABEPRTN	RETURN CODE FROM PREVIOUS INDICATOR G860P33

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ABEP mapping

Table 2. Cross Reference for ABEP

Name	Offset	Hex Tag
ABEPABC	C	
ABEPABND	C	
ABEPID	0	
ABEPJOBN	4	
ABEPLVL	20	
ABEPLVRC	20	
ABEPMODN	14	
ABEPRES	F	
ABEPRTN	22	
ABEPSDWA	10	
ABEPSNAP	1C	
IHAABEPL	0	

Chapter 2. ACA Information

ACA Heading Information

Common Name:	Auxiliary Storage Management Control Area
Macro ID:	ILRACA
DSECT Name:	ACA
Owning Component:	Aux Storage Manager (SC1CW)
Eye-Catcher ID:	None
Storage Attributes:	Virtual Storage: YES Subpool: Nucleus or 236 or 237 Key: 0
Size:	28 Bytes
Created by:	User (RSM or VBP)
Pointed to by:	Register 1 on entry to ASM
Serialization:	None
Function:	The ACA is initialized as the result of ASM function operators in anticipation of the input/output requests for pages of the logical group that is being established.

ACA mapping

Table 3. Structure ACA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	28	ACA	ASM Control Area
0	(0)	UNSIGNED	1	ACAOP	Operation flag field. This field is set by the ILRCALL macro. Transfer page decimal '04', Assign LGN decimal '08', Release LG decimal '12', Save LG/LGN decimal '16', Activate LG decimal '20', XM assign LG decimal '24'
1	(1)	BITSTRING	1	ACAFLG1	Flag field
		1...		ACANOGTM	No getmains allowed
		.1..		ACARSV5	Reserved
		..1.		ACARSV7	Reserved
		...1		ACARSV8	Reserved
		.... 1...		ACAFSYM	If on, indicates storage locator symbol ('S' symbol) identifies the logical group being released, in ACASYM. If off, an LGN is provided in ACALGN.
		.... .1..		ACAIOER	ACA I/O error - TRPAG
		.... ..1.		ACAVRCT	Vio in Real Cache Transfer
		1		ACATRLH	Indicate that the ASM locks are held for this transfer page request
2	(2)	SIGNED	2	ACAASID	ASID of the memory associated with the logical group

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Table 3. Structure ACA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	CHARACTER	4	ACARSV4	Reserved
8	(8)	CHARACTER	8	ACALGN	Logical group number
8	(8)	CHARACTER	8	ACALPID	LPID of page
8	(8)	SIGNED	4	ACALGID	Logical group ID
8	(8)	SIGNED	4	ACAVRCTK	Vio Real Cache Token
8	(8)	CHARACTER	4	ACAFLSID	Source LSID for page
12	(C)	UNSIGNED	4	ACARPN	Relative page number
12	(C)	ADDRESS	4	ACAAIAP	AIA address for special use when the ACA is for transfer page request.
16	(10)	CHARACTER	8	ACASYM	Locator symbol of group
16	(10)	CHARACTER	8	ACATOLP	Target LPID associated with the target page
16	(10)	SIGNED	4	ACATOLGI	Logical group ID
16	(10)	SIGNED	4	ACAMAXPN	Largest relative page number to be allowed for the group
20	(14)	UNSIGNED	4	ACATORPN	Relative page number
24	(18)	ADDRESS	4	ACAASCB	ASCB for a transfer page request

Table 4. Cross Reference for ACA

Name	Offset	Hex Tag
ACA	0	
ACAAIAP	C	
ACAASCB	18	
ACAASID	2	
ACAFLG1	1	
ACAFLSID	8	
ACAFSYM	1	08
ACAIOER	1	04
ACALGID	8	
ACALGN	8	
ACALPID	8	
ACAMAXPN	10	
ACANOGTM	1	80
ACAOP	0	
ACARPN	C	
ACARSV4	4	
ACARSV5	1	40
ACARSV7	1	20
ACARSV8	1	10
ACASYM	10	
ACATOLGI	10	
ACATOLP	10	
ACATORPN	14	
ACATRLH	1	01
ACAVRCT	1	02
ACAVRCTK	8	

Chapter 3. ACE Information

ACE Heading Information

Common Name:	Auxiliary Storage Management Control Element
Macro ID:	ILRACE
DSECT Name:	ACE
Owning Component:	Aux Storage Manager (SC1CW)
Eye-Catcher ID:	ACE Offset: 0 Length: 4
Storage Attributes:	Virtual Storage: YES Subpool: 245 Key: 0 Data Space: NO Residency: Above 16M
Size:	56 Bytes
Created by:	ILRASRIM, ILRPEX
Pointed to by:	ASMACEPC field of the ASMVT data area LGEPROCQ field of the LGE data area ASMGOSWT field of the ASMVT data area ASMGOSWK field of the ASMVT data area ASMRLGRQ field of the ASMVT data area ASMRLGWQ field of the ASMVT data area
Serialization:	The ASMGL lock is used to serialize those fields used by the transfer page operation. The ASM class lock is used to serialize the process queue pointer. The LGE process queue serializes group operation fields.
Function:	The ACE is used by the VIO controller to track non-page operations for VIO data set logical groups.

ACE mapping

Table 5. Structure ACE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	56	ACE	ASM Control Element
0	(0)	CHARACTER	4	ACEID	ACE control block ID C'ACE ' (COMMON)
4	(4)	CHARACTER	52	ACEBODY	Body of the ACE, omitting the control block ID
4	(4)	ADDRESS	4	ACEFQPA	Forward queue pointer for VIO process queue (COMMON)
8	(8)	ADDRESS	4	ACEBQPA	Back queue pointer for VIO process queue (COMMON)
12	(C)	UNSIGNED	1	ACEOP	Operation code (COMMON)
13	(D)	BITSTRING	1	ACEFLG1	First flag field
		1...		ACEUSYM	Release 'S' symbol flag. 1 = 'S' symbol in ACE for release group, 0 = LGN in ACE for release LG

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Table 5. Structure ACE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		ACETRPWT	Transfer page waiting flag. 1 = Transfer page operation waiting for paging I/O to complete, 0 = Operation not waiting on paging I/O
		..1.		ACEOVRID	Transfer page override flag. 1 = Ignore LPME in progress flag, 0 = No override in effect
		...1		ACENOACT	No active ASPCT flag. 1 = No active ASPCT exists for release LG request, 0 = Active ASPCT exists for release LG request
		.... 1...		ACEIOER	I/O error flag
		.... .1..		ACESTGER	Storage error flag
		.... ..1.		ACEVRCT	Vio in Real Cache Transfer
		1		ACETRLH	Indicate that the ASM locks are held for this transfer page request
14	(E)	BITSTRING	1	ACEFLG2	Reserved
15	(F)	BITSTRING	1	ACEFLG3	Primary status flags. These flags correspond to flags in AIAFLG3, any changes should be made in both control blocks at the same time
		1...		ACEGRPRQ	Group request flag. 1 = ACE is for a group request, 0 = ACE is for transfer page request
		.1..		ACEPRINO	Process in operation flag. 1 = Process requested has been started, 0 = Request has not been started
		..1.		ACERSV6	Reserved, used in AIA
		...1		ACERSV7	Reserved, used in AIA
		.... 1...		ACELPMEC	Auxiliary locator status flag. 1 = LPID converted to LPME LPME in ACE, 0 = LPID in ACE
		.... .1..		ACERSV8	Reserved, used in AIA
		.... ..1.		ACERSV9	Reserved, used in AIA
		1		ACERSV10	Reserved, used in AIA
16	(10)	ADDRESS	4	ACELGE	Address of LGE whose process queue this ACE resides on
20	(14)	CHARACTER	8	ACELGN	LGN of logical group to be processed if a group operation, the RPN portion should always be zero in this case
20	(14)	SIGNED	4	ACELGID	The LG identifier of the logical group
24	(18)	UNSIGNED	4	ACERPN	The relative page number portion of the LGN, should always be 0 if ACEGRPRQ=1
24	(18)	ADDRESS	4	ACETLPME	Target LPME address for transfer page ACE
28	(1C)	SIGNED	4	ACERSV11	Reserved
32	(20)	ADDRESS	4	ACEASCB	ASCB for a transfer page request (COMMON)

Table 5. Structure ACE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	CHARACTER	8	ACESYM	Storage locator 'S' symbol for saved VIO logical group
36	(24)	SIGNED	4	ACESRCID	Source LSID for transfer page operation or source Vio in Real Cache Token for transfer page operation
36	(24)	CHARACTER	4	ACEVLSID	VIO reference to source LSID
36	(24)	UNSIGNED	1	ACEVLSNN	LSID NN number
40	(28)	ADDRESS	4	ACEAIAPT	Pointer to AIA for page-out operation that will create source LSID if none already exists
44	(2C)	SIGNED	4	ACEECB	ECB that ILRGOS uses to wait for other operations on a logical group to complete before starting requested save or activate request
48	(30)	SIGNED	4	ACESRBWK	SRB controller work word
52	(34)	CHARACTER	4	ACERSV1	Reserved
56	(38)	CHARACTER	0	*	For alignment

Table 6. Constants for ACE

Len	Type	Value	Name	Description
1	HEX	00	ACEIO	Page I/O request
1	HEX	04	ACETRPAG	Transfer page request
1	HEX	08	ACEASGN	Assign LG
1	HEX	0C	ACERELLG	Release LG
1	HEX	10	ACESVLGN	Save LG and LGN
1	HEX	14	ACEACT	Activate
1	HEX	1C	ACEDEACT	Deactivate
1	HEX	20	ACEPD	Page delete
1	HEX	24	ACEESQRY	Query-Real (AIA only)
1	HEX	28	ACEMOVES	Moveout-Real (AIA only)

Table 7. Cross Reference for ACE

Name	Offset	Hex Tag
ACE	0	
ACEAIAPT	28	
ACEASCB	20	
ACEBODY	4	
ACEBQPA	8	
ACEECB	2C	
ACEFLG1	D	
ACEFLG2	E	
ACEFLG3	F	
ACEFQPA	4	
ACEGRPRQ	F	80
ACEID	0	
ACEIOER	D	08
ACELGE	10	

Table 7. Cross Reference for ACE (continued)

Name	Offset	Hex Tag
ACELGID	14	
ACELGN	14	
ACELPMEC	F	08
ACENOACT	D	10
ACEOP	C	
ACEOVRID	D	20
ACEPRINO	F	40
ACERPN	18	
ACERSV1	34	
ACERSV10	F	01
ACERSV11	1C	
ACERSV6	F	20
ACERSV7	F	10
ACERSV8	F	04
ACERSV9	F	02
ACESRBWK	30	
ACESRCID	24	
ACESTGER	D	04
ACESYM	24	
ACETLPME	18	
ACETRLH	D	01
ACETRPWT	D	40
ACEUSYM	D	80
ACEVLSID	24	
ACEVLSNN	24	
ACEVRCT	D	02

Chapter 4. ADB Information

ADB Heading Information

Common Name: Allocation Descriptor Block (ADB)
Macro ID: IEFZB4H1
DSECT Name: ADB
Owning Component: Allocation (SC1B4)
Eye-Catcher ID: ADB
Offset: 0
Length: 4
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: 230
Key: 1
Data Space: No
Residency: Any
Size: 72 decimal bytes
Created by: IEFHB4I1
Pointed to by: JESALLOP in IEFJESCT
Serialization: Each field is serialized individually.
Function: This macro provides a symbolic mapping of the anchor of all other control blocks in the allocation address space and contains data pertaining to Shared tape structure IEFAUTOS

ADB mapping

Table 8. Structure ADB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	72	ADB	ALLOCATION DESCRIPTOR BLOCK
0	(0)	CHARACTER	4	ADBID	ACRONYM: ADB
4	(4)	ADDRESS	4	ADBDAIT	POINTER TO DAIT
8	(8)	CHARACTER	4	*	Reserved. Was DVT ptr
12	(C)	SIGNED	4	ADBDUECB	DISPLAY ALLOCATION SDUMP ECB
16	(10)	ADDRESS	4	ADBHB410	STARTING ADDR OF IEFHB410
20	(14)	ADDRESS	4	ADB410LN	LENGTH OF IEFHB410
24	(18)	ADDRESS	4	ADBHB420	Starting addr of IEFHB420
28	(1C)	ADDRESS	4	ADB420LN	Length of IEFHB420
32	(20)	ADDRESS	4	ADB_IEFALPCE_EP	The generalized estae recovery routine entry point used by the ALLOC xes modules
36	(24)	ADDRESS	4	ADB_IEFALFRR_EP	The generalized FRR recovery routine entry point used by the ALLOC xes modules
40	(28)	ADDRESS	4	ADB_IEFHIPVT@	
44	(2C)	ADDRESS	4	ADB_IEFHIPVTEND@	
48	(30)	CHARACTER	16	*	
48	(30)	CHARACTER	16	*	
64	(40)	CHARACTER	8	*	

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ADB mapping

Table 9. Constants for ADB

Len	Type	Value	Name	Description
Related declares				
4	CHARACTER ADB		ADBACRO	ADB acronym value
4	DECIMAL	230	DISPSUBP	Storage subpool for display allocation tables
4	DECIMAL	1	DISPKEY	Storage key for display allocation tables
4	DECIMAL	72	ADBLEN	LENGTH OF THE ADB

Table 10. Cross Reference for ADB

Name	Offset	Hex Tag
ADB	0	
ADB_IEFALFRR_EP	24	
ADB_IEFALPCE_EP	20	
ADB_IEFHIPVT@	28	
ADB_IEFHIPVTEND@	2C	
ADBDAIT	4	
ADBDUECB	C	
ADBHB410	10	
ADBHB420	18	
ADBID	0	
ADB410LN	14	
ADB420LN	1C	

Chapter 5. ADSR Information

ADSR Programming Interface Information

ADSR is a programming interface.

ADSR Heading Information

Common Name:	Symptom Record
Macro ID:	ADSR
DSECT Name:	ADSR, ADSRCMPS, ADSRDBST, ADSRROSD, ADSR5ST
Owning Component:	Symptom Record Services (SCASR)
Eye-Catcher ID:	SR Offset: 0 Length: 2
Storage Attributes:	Subpool: Any Key: Any
Size:	Variable up to 1900 bytes
Created by:	Any routine which is creating a symptom record to be logged using the SYMREC executable macro.
Pointed to by:	Addressability to the symptom record is managed by the routine that creates it.
Serialization:	None
Function:	A symptom record is a data record containing a description of a programming event or failure and its environment.

ADSR mapping

Table 11. Structure ADSR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ADSR	- DSECT name for sections 1 & 2
0	(0)	CHARACTER	2	ADSRID	'SR' symptom record id
2	(2)	CHARACTER	4	ADSRCPM	CPU model number
6	(6)	CHARACTER	6	ADSRCPS	CPU serial number
12	(C)	BITSTRING	4	ADSRGMT	Local time zone conversion factor
16	(10)	BITSTRING	4	ADSRTIME	Time stamp
20	(14)	CHARACTER	8	ADSRTOD	Time stamp (HHMMSSTH)
28	(1C)	CHARACTER	6	ADSRDATE	Date (YYMMDD)
34	(22)	CHARACTER	8	ADSRSID	Customer assigned system/node name
42	(2A)	CHARACTER	4	ADSRSYS	Product id of BCP
46	(2E)	CHARACTER	8	ADSRCML	Feature and level of SYMREC service
54	(36)	BITSTRING	1	ADSRFL1	Record status flags
		.1..		ADSRTRNC	"X'40'" Symptom record was truncated
		..1.		ADSRPMOD	"X'20'" The section 3 symptom string has been modified
		...1		ADSRSGEN	"X'10'" No record from component

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Table 11. Structure ADSR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		ADSRSMOD	"X'08'" The section 4 symptom string has been modified
		.... .1..		ADSRDAEN	"X'04'" DAE is not to use this symptom record for dump suppression
55	(37)	BITSTRING	1	ADSRFL2	Record status flags
		1...		ADSRNOTD	"X'80'" ADSRTOD & ADSRDATE have not been computed
		.1..		ADSRASYN	"X'40'" Record was created asynchronously from the error
		..1.		ADSRNALT	"X'20'" Network notification (e.g., an alert or alarm) is not required
56	(38)	CHARACTER	8	ADSRDTP	Type of dump taken for this event
Section 2 of the symptom record					
64	(40)	CHARACTER	2	ADSRARID	Architectural level of the symptom record
66	(42)	SIGNED	2	ADSRL	Length of section 2
68	(44)	SIGNED	2	ADSRCSL	Length of section 2.1 (ADSRCMPS)
70	(46)	SIGNED	2	ADSRCSO	Offset of section 2.1 (ADSRCMPS)
72	(48)	SIGNED	2	ADSRDBL	Length of section 3 (ADSRDBST)
74	(4A)	SIGNED	2	ADSRDBO	Offset of section 3 (ADSRDBST)
76	(4C)	SIGNED	2	ADSRROSL	Length of section 4 (ADSRROSD)
78	(4E)	SIGNED	2	ADSRROSA	Offset of section 4 (ADSRROSD)
80	(50)	SIGNED	2	ADSRRONL	Length of section 5 (ADSR5ST)
82	(52)	SIGNED	2	ADSRRONA	Offset of section 5 (ADSR5ST)
84	(54)	SIGNED	2	ADSRRISL	Length of section 6
86	(56)	SIGNED	2	ADSRRISA	Offset of section 6
88	(58)	CHARACTER	8	ADSRSRES	System data
96	(60)	CHARACTER	16		Reserved

Table 12. Structure ADSRCMPS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ADSRCMPS	- DSECT name for section 2.1
0	(0)	CHARACTER	4	ADSRC	Identifier for section 2.1
4	(4)	CHARACTER	2	ADSRCRL	Architectural level of the symptom record
6	(6)	CHARACTER	9	ADSRCID	Component identifier
15	(F)	BITSTRING	1	ADSRFLC	Component status flags
		1...		ADSRNIBM	"X'80'" Non-IBM program
16	(10)	CHARACTER	4	ADSRLVL	Component level
20	(14)	CHARACTER	8	ADSRPTF	PTF level
28	(1C)	CHARACTER	8	ADSRPID	PID level
36	(24)	CHARACTER	8	ADSRPIDL	PID release level
44	(2C)	CHARACTER	32	ADSRCDSC	Text description
76	(4C)	BITSTRING	4	ADSRRET	Return code
80	(50)	BITSTRING	4	ADSRREA	Reason code
84	(54)	CHARACTER	8	ADSRPRID	Problem identifier
92	(5C)	CHARACTER	8	ADSRSSID	Subsystem identifier

Table 13. Structure ADSRDBST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ADSRDBST	- Primary symptom string

Table 14. Structure ADSRROSD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ADSRROSD	- Secondary symptom string

Table 15. Structure ADSR5ST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ADSR5ST	- Free Format Data

Table 16. Cross Reference for ADSR

Name	Offset	Hex Tag
ADSR	0	
ADSRARID	40	
ADSRASYN	37	40
ADSRC	0	
ADSRCDSC	2C	
ADSRCID	6	
ADSRCML	2E	
ADSRCMPS	0	
ADSRCPM	2	
ADSRCPS	6	
ADSRCRL	4	
ADSRCSL	44	
ADSRCSO	46	
ADSRDAEN	36	4
ADSRDATE	1C	
ADSRDBL	48	
ADSRDBO	4A	
ADSRDBST	0	
ADSRDTP	38	
ADSRFLC	F	
ADSRFL1	36	
ADSRFL2	37	
ADSRGMT	C	
ADSRID	0	
ADSRL	42	
ADSRLVL	10	
ADSRNALT	37	20
ADSRNIBM	F	80
ADSRNOTD	37	80
ADSRPID	1C	
ADSRPIDL	24	
ADSRPMOD	36	20

Table 16. Cross Reference for ADSR (continued)

Name	Offset	Hex Tag
ADSRPRID	54	
ADSRPTF	14	
ADSRREA	50	
ADSRRET	4C	
ADSRRISA	56	
ADSRRISL	54	
ADSRRONA	52	
ADSRRONL	50	
ADSRROSA	4E	
ADSRROSD	0	
ADSRROSL	4C	
ADSRSGEN	36	10
ADSRSID	22	
ADSRSMOD	36	8
ADSRSRES	58	
ADSRSSID	5C	
ADSRSYS	2A	
ADSRTIME	10	
ADSRTOD	14	
ADSRTRNC	36	40
ADSR5ST	0	

Chapter 6. ADYENF Information

ADYENF Programming Interface Information

ADYENF is a programming interface.

ADYENF Heading Information

Common Name:	DAE ENF Parameter List
Macro ID:	ADYENF
DSECT Name:	ADYENF
Owning Component:	Dump Analysis and Elimination (SC143)
Eye-Catcher ID:	ENFD Offset: 0 Length: 4
Storage Attributes:	Subpool: 0 (252) Key: Key 0 Residency: Extended Private in the DUMPSRV Address Space.
Size:	ADYENF -- X'0110' bytes
Created by:	ADYTRNS - DAE Post Dump Processing
Pointed to by:	Passed as a formal Parameter to Listen Exit for ENF Event 47 Dynamic Area of ADYTRNS.
Serialization:	None required.
Function:	This data area maps the information presented to ENF exits listening for ENF signal 47 (decimal). This event will be signalled when the installation-defined threshold for SVC Dump requests is exceeded. Subsequent notifications will not be made until the amount of time specified by the installation has been exceeded.

ADYENF mapping

Table 17. Structure ADYENF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ADYENF	DAE Event Notification Parameter List
0	(0)	CHARACTER	4	ADYENFACRONYM	Eyecatcher C'ENFD'
4	(4)	CHARACTER	5	ADYENFCOMPONENT	DAE Component 'SC143'
9	(9)	SIGNED	1	ADYENFVERSION	Version (1,2,3...)
10	(A)	CHARACTER	2	ADYENFQUAL(0)	ENF Qualifier
10	(A)	SIGNED	1	ADYENFEVENT	Event Number - 47.
11	(B)	SIGNED	1	ADYENFRECTYPE	Function code, listed below.
12	(C)	CHARACTER	260	ADYENFDATA(0)	The following data has been taken from the dump and/or the system in general. If a field is 0, it was not available.
12	(C)	SIGNED	2	ADYENFTIME	NOTIFY Time interval
14	(E)	SIGNED	2	ADYENFCOUNT	NOTIFY Event Threshold
16	(10)	SIGNED	4	ADYENFREQ	Actual Number of Dumps Requested since the last time a Notify was issued.

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Table 17. Structure ADYENF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	CHARACTER	8	ADYENFTIMESTAMPF	Timestamp of the first event in this interval. This field is produced using STCK when the event (either Suppressed Dump or Complete Dump) completes. It has NOT been adjusted to local time.
28	(1C)	CHARACTER	8	ADYENFTIMESTAMPL	Timestamp of the last event in this interval. This field is produced using STCK, and has NOT been adjusted to local time.
36	(24)	CHARACTER	10	ADYENFERRORID(0)	Original ErrorID
36	(24)	SIGNED	2	ADYENFERSEQ	Errorid sequence number
38	(26)	SIGNED	2	ADYENFERCPU	
40	(28)	SIGNED	2	ADYENFERAS	Errorid ASID
42	(2A)	SIGNED	4	ADYENFTIMES	
46	(2E)	BITSTRING	2	ADYENFFLAGS(0)	Flags
		1...		ADYENFFLAGSTRUNCATED	"X'80'" Symptom String was truncated to 150 Characters.
46	(2E)	BITSTRING	1		Reserved
48	(30)	CHARACTER	44	ADYENFDSNAME	Dump Data Set Name
92	(5C)	SIGNED	2	ADYENFSYMPTOMSTRINGLEN	Symptom String length. Length of the symptom string includes one blank at the end of the string.
94	(5E)	SIGNED	2	ADYENFSYMPTOMCOUNT	Count of number of symptoms in the symptom string.
96	(60)	CHARACTER	150	ADYENFSYMPTOMSTRING	Symptom String generated by DAE based on either input from the SDWA, or the symptom record passed to SVC Dump. Padded on the right with blanks.
246	(F6)	CHARACTER	26	ADYENFXXX	Reserved
272	(110)	CHARACTER	1	ADYENFEND(0)	The End
		1		ADYENFRECTYPETHRESHOLD	"X'01'" Threshold exceeded
272	(110)	X'D5C6C4'	0	ADYENFEYECATCHER	"C'ENFD'" String to be placed in ADYENFAcronym
272	(110)	X'96'	0	ADYENFMAXSYMPTOMSTRING	"150" The maximum length of the symptom string (which contains a blank at the end) is 150 Characters.
272	(110)	X'1'	0	ADYENFVERSION1	"1" Version 1
272	(110)	X'1'	0	ADYENFVERSIONCURRENT	"1" Current Version.
272	(110)	X'110'	0	ADYENF_LEN	"*-ADYENF"

Table 18. Cross Reference for ADYENF

Name	Offset	Hex Tag
ADYENF	0	
ADYENF_LEN	110	110
ADYENFACRONYM	0	
ADYENFCOMPONENT	4	
ADYENFCOUNT	E	
ADYENFDATA	C	
ADYENFDSNAME	30	

Table 18. Cross Reference for ADYENF (continued)

Name	Offset	Hex Tag
ADYENFEND	110	
ADYENFERAS	28	
ADYENFERCPU	26	
ADYENFERRORID	24	
ADYENFERSEQ	24	
ADYENFEVENT	A	
ADYENFEYECATCHER	110	D5C6C4
ADYENFFLAGS	2E	
ADYENFFLAGSTRUNCATED	2E	80
ADYENFMAXSYMPTOMSTRING	110	96
ADYENFQUAL	A	
ADYENFRECTYPE	B	
ADYENFRECTYPETHRESHOLD	110	1
ADYENFREQ	10	
ADYENFSYMPTOMCOUNT	5E	
ADYENFSYMPTOMSTRING	60	
ADYENFSYMPTOMSTRINGLEN	5C	
ADYENFTIME	C	
ADYENFTIMES	2A	
ADYENFTIMESTAMPF	14	
ADYENFTIMESTAMPL	1C	
ADYENFVERSION	9	
ADYENFVERSIONCURRENT	110	1
ADYENFVERSION1	110	1
ADYENFXXX	F6	

ADYENF mapping

Chapter 7. ADYEVENT Information

ADYEVENT Heading Information

Common Name: DAE Event List Mapping
Macro ID: ADYEVENT
DSECT Name: EVENTLIST
Owning Component: Dump Analysis and Elimination (SC143)
Eye-Catcher ID: EVEN
Offset: 0
Length: 4
Storage Attributes: Subpool: 225
Key: Key 0
Residency: Extended Private in the DUMPSRV Address Space.
Size: ADYEVENT -- 84 bytes + (8 * DFLNOTDN bytes)
Created by: ADYTRNS - DAE Transaction Processing
Pointed to by: SYMPFREQ
Serialization: Same as for Symptom Queue.
Function: This data area maps the information kept to determine if a specified number of DAE Events have taken place in a given time.

ADYEVENT mapping

Table 19. Structure EVENTLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	EVENTLIST	Event List for a Symptom
0	(0)	CHARACTER	84	EVENTHEADER	Header
0	(0)	CHARACTER	4	EVENTID	Event ID 'EVEN'
4	(4)	CHARACTER	4	EVENTFLAGS	Flags
		1...		EVENTOWED	A Notify is eventually Owed
8	(8)	CHARACTER	44	EVENTDATASETNAME	Event Dump Dataset Name
52	(34)	UNSIGNED	4	EVENTCOUNT	Count of Events
56	(38)	UNSIGNED	4	EVENTINDEX	Index of Events
60	(3C)	CHARACTER	8	EVENTFIRST	First Event in this interval
60	(3C)	UNSIGNED	4	EVENTFIRSTL	Left hand part
64	(40)	UNSIGNED	4	EVENTFIRSTR	Right hand part
68	(44)	CHARACTER	12	EVENTLAST	
68	(44)	UNSIGNED	4	EVENTLASTCOUNT	Count of Events at last notify
72	(48)	CHARACTER	8	EVENTLASTNOTIFYTIME	Last Notify Time (or 0)
72	(48)	UNSIGNED	4	EVENTLASTNOTIFYTIMEL	Left Word
80	(50)	UNSIGNED	2	EVENTSUBPOOL	Subpool of this Control Block
82	(52)	UNSIGNED	2	EVENTSIZE	Size of this entire Control Block
84	(54)	CHARACTER	8	EVENTTIMESTAMP(*)	Event TimeStamps (number of entries contained in field DFLNOTDN)
84	(54)	UNSIGNED	4	EVENTTIMESTAMPL	Time Stamp Left Half

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ADYEVENT mapping

Table 20. Constants for ADYEVENT

Len	Type	Value	Name	Description
4	DECIMAL	225	EVENTSPCONST	Subpool

Table 21. Cross Reference for ADYEVENT

Name	Offset	Hex Tag
EVENTCOUNT	34	
EVENTDATASETNAME	8	
EVENTFIRST	3C	
EVENTFIRSTL	3C	
EVENTFIRSTR	40	
EVENTFLAGS	4	
EVENTHEADER	0	
EVENTID	0	
EVENTINDEX	38	
EVENTLAST	44	
EVENTLASTCOUNT	44	
EVENTLASTNOTIFYTIME	48	
EVENTLASTNOTIFYTIMEL	48	
EVENTLIST	0	
EVENTOWED	4	80
EVENTSIZE	52	
EVENTSUBPOOL	50	
EVENTTIMESTAMP	54	
EVENTTIMESTAMPL	54	

Chapter 8. AE Information

AE Heading Information

Common Name:	VSM Allocated Element
Macro ID:	IHAAE
DSECT Name:	AE
Owning Component:	Virtual Storage Manager (SC1CH)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 255 Key: 0 Residency: Above 16M line
Size:	18 bytes
Created by:	IGVGLSQA, IGVFLSQA
Pointed to by:	TCBAE, TCBEAE, AENEXT, AEPREV
Serialization:	LOCAL lock
Function:	Describes TASK and JOB related LSQA space. Freed automatically at the end of task or job step.

AE mapping

Table 22. Structure AE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	18	AE	ALLOCATED ELEMENT
0	(0)	ADDRESS	4	AENEXT	ADDRESS OF NEXT AE
4	(4)	ADDRESS	4	AEPREV	ADDRESS OF PREVIOUS AE
8	(8)	ADDRESS	4	AEAREA	ADDRESS OF ALLOCATED AREA
12	(C)	UNSIGNED	4	AESIZE	SIZE OF ALLOCATED AREA
16	(10)	UNSIGNED	1	AESP	Subpool of allocated area
17	(11)	UNSIGNED	1	AERLOC	Real LOC of allocated area

Table 23. Constants for AE

Len	Type	Value	Name	Description
1	DECIMAL	49	AER31	R31 real LOC indicator
1	DECIMAL	100	AER64	R64 real LOC indicator

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AE mapping

Chapter 9. AHLMCWRC Information

AHLMCWRC Programming Interface Information

AHLMCWRC is a programming interface.

AHLMCWRC Heading Information

Common Name:	CCW trace entry segments.
Macro ID:	AHLMCWRC
DSECT Name:	MCWRC
Owning Component:	Generalized Trace Facility (SC111)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 239 Key: 0
Size:	256 bytes FREQUENCY: 1/CPU
Created by:	Within field MCAWORK in MCAWSA and typically written to a GTF external trace data set
Pointed to by:	N/A
Serialization:	Disablement
Function:	Maps CCW trace entry segments.

AHLMCWRC mapping

Table 24. Structure MCWRC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MCWRC	, CCW TRACE ENTRY
0	(0)	ADDRESS	4	MCWASCB	ADDRESS SPACE CAUSING INTERRUPT
4	(4)	BITSTRING	2	MCWCPUID	CPU CAUSING INTERRUPT
6	(6)	CHARACTER	8	MCWJOB	JOBNAME CAUSING TRACE FROM FROM ASCBJBNS OR ASCBJBNI
14	(E)	BITSTRING	2	MCWDEVAD	DEVICE ADDR CAUSING TRACE
16	(10)	SIGNED	2	MCWDATAL	MAX AMOUNT OF DATA TO FOLLOW
18	(12)	BITSTRING	1	MCWFLG1	ID FOR CCWTRACE FORMATTER
EQU BIT0 Reserved					
	.1..			MCWEIDAW	"BIT1" 64 bit IDAWs are being traced
	..1.			MCWFMT	"BIT2" FORMAT OF CCWS. 0 IMPLIES FORMAT ZERO CCWS ARE BEING TRACED. 1 IMPLIES FORMAT ONE CCWS ARE BEING TRACED.
	...1			MCWEWA	"BIT3" RECORD CONTAINS A EWA
	.... 1...			MCWIOSB	"BIT4" RECORD CONTAINS A IOSB
	.... .1..			MCWLAST	"BIT5" THIS IS THE LAST RECORD FOR THIS EVENT (EG: SIO)
	.... ..1.			MCWMSG	"BIT6" RECORD CONTAINS A MESSAGE
	1			MCWLOST	"BIT7" END OF CHAIN NOT FOUND

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Table 24. Structure MCWRC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
19	(13)	SIGNED	2	MCWRECNO	SEQUENTIAL RECORD COUNT FOR PRINT DUMP OF THIS EVENT (EG: SIO)
21	(15)	SIGNED	1	MCWTVSN	CCW record version
21	(15)	X'0'	0	MCWVERSIONNUMBER0	"0,1,C'F'" Pre V1R6 MCW Version
21	(15)	X'1'	0	MCWVERSIONNUMBER1	"1,1,C'F'" V1R6 Version of the MCW with PAV support.
21	(15)	X'2'	0	MCWVERSIONNUMBER2	"2,1,C'F'" V1R6 Version of the MCW with MIDAW support.
21	(15)	X'3'	0	MCWVERSIONNUMBER3	"3,1,C'F'" V1R7 Version of the MCW with SubChannel Set Support
21	(15)	X'3'	0	MCWCURRVERSIONNUMBER	"MCWVERSIONNUMBER3,1,C'F'" The current version of the MCW
22	(16)	BITSTRING	1	MCWSSID	SubChannel set ID
23	(17)	SIGNED	1	MCWUCBWGT	From UCB, has UCBMTPXP
24	(18)	BITSTRING	2	MCWBASE	Device no. for a PAV
26	(1A)	BITSTRING	1	MCWBSSID	Base subchannel set ID
27	(1B)	BITSTRING	2	MCWRSVD2	Reserved
29	(1D)	CHARACTER	0	MCWREC(0)	Variable Data Area
29	(1D)	CHARACTER	235	MCWREC1(0)	Variable data area
29	(1D)	SIGNED	1	MCWTRTID	TRANSLATE TABLE ID FOR FORMATTER
30	(1E)	CHARACTER	234	MCWCCWA	START CCW AND DATA FIELD

Table 25. Structure MCWCCWA1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MCWCCWA1	
0	(0)	BITSTRING	2	MCWFLG2(0)	
0	(0)	BITSTRING	1	MCWFLG2A	Byte 1 of MCWFLG2
		1...		MCWMOD	"BIT0" CCW HAS MODIFY ABILITY
		.1..		MCWNODAT	"BIT1" NO DATA TRACED FOR THIS CCW
		..1.		MCWCMCDS	"BIT2" COMMAND CODE SAVED
		...1		MCWRDBKW	"BIT3" COMMAND CODE IS READ BACKWARD
		 1111		MCWCMDCD	"BIT4+BIT5+BIT6+BIT7" SAVE AREA FOR CCW COMD CODE
1	(1)	BITSTRING	1	MCWFLG2B	Byte 2 of MCWFLG2
		1...		MCWDATA1	"BIT0" RECORD CONTAINS CONTINUATION OF DATA FROM PREVIOUS RECORD
		.1..		MCWCDBIT	"BIT1" THIS CCW DOES A CHAIN DATA
		..1.		MCWIDAW1	"BIT2" IDAW INDICATOR FLAG FOR PRINTDUMP FORMATTER
		...1		MCWDATER	"BIT3" ERROR IN DATA TRACED-NO DATA FORMATTED
		.... 1...		MCWSPLIT	"BIT4" MORE DATA AVAILABLE THAN FORMATTED
		.... .1..		MCWLAST1	"BIT5" LAST CCW TO BE EXECUTED
		.... ..1.		MCWTIC	"BIT6" TIC INST NO DATA TRANSFERRED

Table 25. Structure MCWCCWA1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		MCWLOST1	"BIT7" CCW CHAIN LOST AT THIS POINT
2	(2)	SIGNED	2	MCWDALNH	LENGTH OF DATA IN THIS CCW. FOR DATA CONTINUATION, IT IS THE RESIDUAL COUNT
4	(4)	SIGNED	1	MCWDATLN	LENGTH OF DATA IN THIS REC
5	(5)	CHARACTER	1	MCWOLDCCWB(0)	Location of the Format 0 MCW's CCWB
5	(5)	BITSTRING	1	MCWFLG3	MCW FLAG 3
		1...		MCWMIDAW1	"BIT0" MIDAWs ARE ASSOCIATED WITH WITH THIS RECORD.
6	(6)	BITSTRING	2		RESERVED
8	(8)	SIGNED	4	MCWCCWB(0)	AREA FOR CCW ADDR,CCW & CNT also IDAW and MIDAWs
8	(8)	ADDRESS	4	MCWCCWAD	VIRTUAL ADDRESS OF CCW
12	(C)	BITSTRING	8	MCWCCW	CCW BEING TRACED
20	(14)	BITSTRING	4		Extra Area for MIDAW
24	(18)	CHARACTER	1	MCWCCWL(0)	AREA FOR LENGTH AND DATA
MCWFmt0CCWB is defined on MCWOldCCWB and overlays MCWFLG3 to MCWCCWL					
5	(5)	CHARACTER	1	MCWFMT0CCWB(0)	AREA FOR CCW ADDR,CCW CNT and IDAWs
5	(5)	ADDRESS	4	MCWFMT0CCWAD	VIRTUAL ADDRESS OF CCW
9	(9)	BITSTRING	8	MCWFMT0CCW	CCW BEING TRACED
17	(11)	CHARACTER	1	MCWFMT0CCWL(0)	AREA FOR LENGTH AND DATA
8	(8)	CHARACTER	1	MCWIDAW(0)	MAPPING FOR INDIRECT DATA ADDRESS WORD ENTRY
8	(8)	ADDRESS	8	MCWIDAW64(0)	64 bit pointer to IDAW
8	(8)	ADDRESS	4	MCWIDADH(0)	High order 32 bits of IDA data address when MCWEIDAW is On.
8	(8)	CHARACTER	4	MCWIDAWA	'IDAW' when MCWEIDAW is Off
12	(C)	ADDRESS	4	MCWIDADA	IDA data address (low order 32 bits when MCWEIDAW is On)
16	(10)	SIGNED	2	MCWIDACT	ACTUAL IDAW LENGTH
18	(12)	SIGNED	2		UNUSED

Table 26. Structure MCWCCWB1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MCWCCWB1	
0	(0)	CHARACTER	256	MCWDATA	DATA AREA FOR CCWS

Table 27. Structure MCWRC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MCWRC	, CCW TRACE ENTRY
29	(1D)	BITSTRING	235	MCWREC2	
264	(108)	BITSTRING	10	MCWBLKHD(0)	HEADER GROUP
264	(108)	BITSTRING	4	MCWBLKID	TYPE OF RECORD
268	(10C)	ADDRESS	4	MCWBLKAD	ADDR OF EWA,IOSB OR ZEROS

Table 27. Structure MCWRC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
272	(110)	SIGNED	2	MCWBLKLN	LENGTH OF EWA,IOSB OR MSG
274	(112)	BITSTRING	225	MCWTRC	DATA OR MESSAGE

Table 28. Structure MCWCCWA1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MCWCCWA1	
8	(8)	BITSTRING	1	MCWMIDAW(0)	MAPPING FOR MODIFIED INDIRECT DATA ADDRESS WORD ENTRY
8	(8)	BITSTRING	5		RESERVED IN THE MIDAW
13	(D)	BITSTRING	1	MCWMIDAFLG1	FLAGS
		1...		MCWMIDALAST	"BIT0" THIS IS THE LAST MIDAW IN A CONTIGUOUS LIST OF MIDAWS
		.1..		MCWMIDASKIP	"BIT1" SKIP THE TRANSFER OF INFORMATION TO MAIN STORAGE DURING A READ, READ BACKWARDS, SENSE ID OR SENSE OPERATION.
14	(E)	SIGNED	2	MCWMIDACNT	COUNT
16	(10)	ADDRESS	8	MCWMIDAADDR(0)	DATA ADDRESS (64 BIT)
16	(10)	ADDRESS	4	MCWMIDAAH	HIGH ORDER WORD OF ADDR
20	(14)	ADDRESS	4	MCWMIDAAL	LOW ORDER WORD OF ADDR

Table 29. Structure AHLUCBWGT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	AHLUCBWGT	, MAP THE ...WGT FIELD
0	(0)	BITSTRING	1		
		1...		AHLUCBWGTR0	"BIT0" Reserved
		.1..		AHLUCBWGTR1	"BIT1" Reserved
		..1.		AHLUCBWGTR2	"BIT2" Reserved
		...1		AHLUCBWGTR3	"BIT3" Reserved
		.... 1...		AHLPAV	"BIT4" Reflects UCB PAV device
		.... .1..		AHLUCBWGTR5	"BIT5" Reserved
		.... ..1.		AHLUCBWGTR6	"BIT6" Reserved
		1		AHLUCBWGTR7	"BIT7" Reserved

Table 30. Cross Reference for AHLMCWRC

Name	Offset	Hex Tag
AHLPAV	0	8
AHLUCBWGT	0	
AHLUCBWGTR0	0	80
AHLUCBWGTR1	0	40
AHLUCBWGTR2	0	20
AHLUCBWGTR3	0	10
AHLUCBWGTR5	0	4
AHLUCBWGTR6	0	2
AHLUCBWGTR7	0	1
MCWASCB	0	
MCWBASE	18	

Table 30. Cross Reference for AHLMCWRC (continued)

Name	Offset	Hex Tag
MCWBLKAD	10C	
MCWBLKHD	108	
MCWBLKID	108	
MCWBLKLN	110	
MCWBSSID	1A	
MCWCCW	C	
MCWCCWA	1E	
MCWCCWAD	8	
MCWCCWA1	0	
MCWCCWA1	0	
MCWCCWB	8	
MCWCCWB1	0	
MCWCCWL	18	
MCWCDBIT	1	40
MCWCMCDS	0	20
MCWCMDCD	0	F
MCWCPUID	4	
MCWCURRVERSIONNUMBER	15	3
MCWDALNH	2	
MCWDATA	0	
MCWDATAL	10	
MCWDATA1	1	80
MCWDATER	1	10
MCWDATLN	4	
MCWDEVAD	E	
MCWEIDAW	12	40
MCWEWA	12	10
MCWFLG1	12	
MCWFLG2	0	
MCWFLG2A	0	
MCWFLG2B	1	
MCWFLG3	5	
MCWFMT	12	20
MCWFMT0CCW	9	
MCWFMT0CCWAD	5	
MCWFMT0CCWB	5	
MCWFMT0CCWL	11	
MCWIDACT	10	
MCWIDADA	C	
MCWIDADH	8	
MCWIDAW	8	
MCWIDAWA	8	
MCWIDAW1	1	20
MCWIDAW64	8	
MCWIOSB	12	8
MCWJOB	6	
MCWLAST	12	4
MCWLAST1	1	4
MCWLOST	12	1

Table 30. Cross Reference for AHLMCWRC (continued)

Name	Offset	Hex Tag
MCWLOST1	1	1
MCWMIDAADDR	10	
MCWMIDAAH	10	
MCWMIDAAL	14	
MCWMIDACNT	E	
MCWMIDAFLG1	D	
MCWMIDALAST	D	80
MCWMIDASKIP	D	40
MCWMIDAW	8	
MCWMIDAW1	5	80
MCWMOD	0	80
MCWMSG	12	2
MCWNODAT	0	40
MCWOLDCCWB	5	
MCWRC	0	
MCWRC	0	
MCWRDBKW	0	10
MCWREC	1D	
MCWRECNO	13	
MCWREC1	1D	
MCWREC2	1D	
MCWRSVD2	1B	
MCWSPLIT	1	8
MCWSSID	16	
MCWTIC	1	2
MCWTRC	112	
MCWTRTID	1D	
MCWTVSN	15	
MCWUCBWGT	17	
MCWVERSIONNUMBER0	15	0
MCWVERSIONNUMBER1	15	1
MCWVERSIONNUMBER2	15	2
MCWVERSIONNUMBER3	15	3

Chapter 10. AIA Information

AIA Heading Information

Common Name:	Auxiliary Storage Management I/O Request Area
Macro ID:	ILRAIA
DSECT Name:	AIA
Owning Component:	Auxiliary Storage Manager (SC1CW)
Eye-Catcher ID:	AIA Offset: 0 Length: 4
Storage Attributes:	Virtual Storage: YES Subpool: 245 Key: 0
Size:	60 Bytes
Created by:	User (RSM), see PCB data area
Pointed to by:	Register 1 on entry to ASM LGEPROCQ field of the LGE data area PCCWAIA field of the PCCW data area ASHSWAPQ field of the ASMHD data area PARTNPCW field of the PART data area AIAFQPA field of the AIA data area AIABQPA field of the AIA data area PCBAIA field of the PCB data area AIANXAIA feld of the AIA data area
Serialization:	The ASMGL lock is used to serialize the AIA except for the VIO-related flags, the process queue pointers, and the LPID fields which are serialized by the ASM class lock of the owning address space.
Function:	The AIA is the mechanism for identifying the input/output of a single page to ASM.

AIA mapping

Table 31. Structure AIA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	60	AIA	ASM I/O Area
0	(0)	CHARACTER	4	AIACBID	AIA control block ID C'AIA ' (COMMON)
4	(4)	ADDRESS	4	AIAFQPA	Forward queue pointer of VIO process queue (COMMON)
8	(8)	ADDRESS	4	AIABQPA	Back queue pointer for VIO process queue (COMMON)
12	(C)	UNSIGNED	1	AIAOP	Operation code field. Corresponds to ACEOP in ACE. (COMMON)
13	(D)	BITSTRING	1	AIAFLG1	I/O control flags
		1...		AIAWRITE	Read/write flag. 1 = Write operation, 0 = Read operation
		.1..		AIAPRIV	Page type flag. 1 = Private area flag, 0 = Common area flag

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Table 31. Structure AIA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		AIAVIO	VIO page flag. 1 = Page I/O operation for VIO page, 0 = Normal virtual page
		...1		AIAPGSCM	
		The following flags are used to control a swap-out or swap-in operation.			
		.... 1...		AIALSQA	Swap LSQA or working set flag. 1 = Page is an LSQA page, 0 = Page is not an LSQA page
		.... .1..		AIAPAGDS	LSQA page location flag, set only if LSQA flag is set. 1 = LSQA page on a page data set, 0 = LSQA page on a swap data set
		.... ..1.		AIASTGER	Storage error indicator - request failed due to bad storage in the frame being written or read
		1		AIASCMREQD	
14	(E)	BITSTRING	1	AIAFLG2	I/O disposition flag. The first several flags direct ASM action on I/O completion events
		1...		AIAIOCMP	I/O completed flag. 1 = This I/O request has been completed and handed to RSM, 0 = This I/O request is not yet completed.
		.1..		AIATERMR	Address space termination flag. 1 = Address space this AIA is associated with has been terminated, 0 = Address space still active
		..1.		AIAIORTY	I/O retry flag. 1 = I/O operation must be retried, 0 = Don't retry I/O operation
		...1		AIASWAP	1 = Request is a swap request - set by RSM
		The following flags are I/O error flags. Normal I/O completion is signaled if all flags are off. Only one flag will be set at a time to indicate the error encountered by ASM to RSM.			
		.... 1...		AIAPRIER	Permanent I/O error has occurred for the requested operation. This flag will be on only for read operations. At the time the AIA is returned to RSM, ASM uses the flag internally for both read and write operations. If duplexed write operation, error occurred for primary write operation.
		.... .1..		AIAOFFLN	Frame is going offline at I/O completion
		.... ..1.		AIAERROR	Logical AIA error flag. 1 = AIA contains data inconsistent with previous AIAs in input chain

Table 31. Structure AIA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		AIABADID	Invalid auxiliary storage location flag. 1 = The LSID or LPID in the XPTE is invalid or the LSID in the AIA is incorrect
15	(F)	BITSTRING	1	AIAFLG3	VIO controller flags. Used only for VIO controller processing, AIAVIO must be set on, flags in this byte correspond to flags in ACEFLG3
		1...		AIARSV5	Reserved, used in ACE
		.1..		AIAPRINO	Process in operation flag. 1 = Page I/O operation started but not complete, 0 = Page I/O operation has not been started
		..1.		AIATRPSP	Transfer page flag. 1 = AIACEPTR contains address of transfer page ACE, 0 = Non-special AIA
		...1		AIANPCW	Request could not be started because of a lack of PCCWs
		.... 1...		AIALPMEC	Auxiliary locator status flag. 1 = LPID converted to LPME address, address of fixed LPME in AIA, 0 = LPID in AIA
The following flags support directed VIO.					
		.... .1..		AIAPGVIO	VIO flag. 1 = Page is part of a VIO window, 0 = Page is not VIO
		.... ..1.		AIASPILL	VIO spill flag - valid only when AIAVIO or AIAPGVIO = 1. 1 = This VIO page allowed on non-VIO data sets, 0 = This VIO page allowed only on VIO data sets
		1		AIARREC	Recovery recursion flag. 1 = AIA has been processed by recovery, 0 = AIA has not been processed by recovery.
16	(10)	ADDRESS	4	AIANXAIA	Chain pointer for single threaded queues used to pass AIA between RSM and ASM and between different ASM modules
20	(14)	CHARACTER	8	AIAID	Contents of this double word depend on the type of page being moved to or from auxiliary storage. This name is used to reference both LSIDs for a duplexed page.
20	(14)	CHARACTER	8	AIALPID	Field contains an LPID if AIAVIO = 1, and AIALPMEC =
20	(14)	UNSIGNED	4	AIALGID	The logical group ID or LGN makes up the first word of the LPID
20	(14)	UNSIGNED	4	AIAAUXID	Page Aux ID.

Table 31. Structure AIA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	UNSIGNED	4	AIALSID	The logical slot identifier (LSID) for the auxiliary storage location of a virtual page (if AIAVIO = 0, or AIAVIO = 1 and AIALPMEC = AIAPRINO = 1)
20	(14)	UNSIGNED	1	AIAPNDX	Index into the PART for this request's primary page data set
21	(15)	CHARACTER	3	AIASLOT	Relative slot number of the primary LSID
21	(15)	UNSIGNED	2	AIAPROW	Row number for indexing the conversion table
23	(17)	UNSIGNED	1	AIAPCOL	Column number for indexing the conversion table
20	(14)	UNSIGNED	4	AIASCMBLOCKID	
24	(18)	UNSIGNED	4	AIARPN	The relative page number (RPN) portion of an LPID
24	(18)	ADDRESS	4	AIALPMEP	The address of the LPME in the ASPCT for a VIO page, if AIALPMEC is on
24	(18)	ADDRESS	4	AIACEPTR	Address of transfer page ACE requiring LSID from write operation in progress
24	(18)	SIGNED	4	AIASCMPR	Area to save return code to be passed to IARSCOMP - used by ILRPAGCM
28	(1C)	SIGNED	4	*	Reserved - AIAGRPSZ
28	(1C)	ADDRESS	4	AIALGE	The address of the LGE for the logical group owning the VIO page being processed
28	(1C)	SIGNED	4	AIAVRCTK	VIO real cache token
28	(1C)	SIGNED	4	AIAESTE	ESTE address
32	(20)	ADDRESS	4	AIAASCB	ASCB for this request, if it is for the private area (COMMON)
36	(24)	BITSTRING	1	AIAFLG4	Page delete and miscellaneous flags
		1...		AIAPDDEL	Page delete 1:N migration
		.1..		AIAPDRPL	Page delete 1:1 migration
		..1.		AIAIONST	Swap I/O not started flag. 1 = I/O not started, 0 = I/O started.
		...1		AIACNVRT	LSID conversion flag. 1 = LSID has been converted, 0 = LSID not converted.
		.... 1...		AIAFREE	RSM free flag. 1 = RSM intends to free this page, 0 = page will not be freed.
		.... .1..		AIAPURGE	1 = Query and Purge request, valid only for Query-Real
		.... ..1.		AIADNFLS	1 = Do not free LSID, valid only for Moveout-Real
		1		AIA1MPAG	Request is for 1M page
37	(25)	BITSTRING	3	AIATRACE	AIA Trace footprints
		1...		AIAIODRV	ILRIODRV: Entry to ILRIODRV
		.1..		AIAREDRV	ILRIODRV: Entry to ILREDRV

Table 31. Structure AIA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		AIASWIO	ILRIODRV: Entry to ILRSWLIO, ILRSWAPO, or ILRSWPIN
		...1		AIAVIODR	ILRIODRV: Entry to ILRVIODR
		.... 1...		AIAPRCPR	ILRIODRV: PROCPARE processed
		.... .1..		AIAPSLTF	ILRIODRV: Primary slot freed
		.... ..1.		AIAPGFLT	ILRPGFLT: Entry to ILRPGFLT
		1		AIAPRSCM	ILRIODRV: Processed by ProcPareScm
38	(26)	1...		*	Reserved
		.1..		*	Reserved
		..1.		*	Reserved
		...1		AIASWPDR	ILRSWPDR: Entry to ILRSWPDR
		.... 1...		AIAPRCCW	ILRCMP: PROCCCWS processed
		.... .1..		AIABDSLT	ILRCMP: BADSLOT processed
		.... ..1.		AIAABNMT	ILRCMP: ABNMTERM processed
		1		AIAPCISR	ILRCMP: PCI single read processing
39	(27)	1...		AIAPCISP	ILRCMP: PCI suspend processing
		.1..		AIAPAGCM	ILRPAGCM: Entry to ILRPAGCM
		..1.		AIASWCMP	ILRPAGCM: Swap AIA processing completed
		...1		AIAVIOCM	ILRVIOCM: Entry to ILRVIOCM
		 1111		*	Reserved
40	(28)	CHARACTER	8	AIARSA64	
Real address of page frame					
40	(28)	UNSIGNED	4	*	Reserved in S/390 mode
44	(2C)	ADDRESS	4	AIARSA	Real address of page frame in S/390 mode
48	(30)	SIGNED	4	AIAOLDLS	Input LSID received from RSM, if the LSID was converted
48	(30)	UNSIGNED	1	AIAOLDNN	Old LSID NN
49	(31)	CHARACTER	3	AIAOLDSL	Old LSID slot number
49	(31)	UNSIGNED	2	AIAOLDRW	Old LSID row number
51	(33)	UNSIGNED	1	AIAOLDCL	Old LSID column number
52	(34)	ADDRESS	4	AIAMSBPTR	
56	(38)	BITSTRING	1	AIAFLG5	Flag 5
		1...		AIASCMPREF	
		.1..		AIADASDREQD	Data must be paged to DASD. Currently this is only honored for common area pages
		..11 1111		*	Unused flags
57	(39)	CHARACTER	3	AIARSVD1	Reserved

Table 32. Cross Reference for AIA

Name	Offset	Hex Tag
AIA	0	
AIAABNMT	26	02
AIAASCB	20	
AIAAUXID	14	
AIABADID	E	01

Table 32. Cross Reference for AIA (continued)

Name	Offset	Hex Tag
AIABDSLT	26	04
AIABQPA	8	
AIACBID	0	
AIACEPTR	18	
AIACNVRT	24	10
AIADASDREQD	38	40
AIADNFLS	24	02
AIAERROR	E	02
AIAESTE	1C	
AIAFLG1	D	
AIAFLG2	E	
AIAFLG3	F	
AIAFLG4	24	
AIAFLG5	38	
AIAFQPA	4	
AIAFREE	24	08
AIAID	14	
AIAIOCMP	E	80
AIAIODRV	25	80
AIAIONST	24	20
AIAIORTY	E	20
AIALGE	1C	
AIALGID	14	
AIALPID	14	
AIALPMEC	F	08
AIALPMEP	18	
AIALSID	14	
AIALSQA	D	08
AIAMSBPTR	34	
AIANPCW	F	10
AIANXAIA	10	
AIAOFFLN	E	04
AIAOLDCL	33	
AIAOLDLS	30	
AIAOLDNN	30	
AIAOLDRW	31	
AIAOLDSL	31	
AIAOP	C	
AIAPAGCM	27	40
AIAPAGDS	D	04
AIAPCISP	27	80
AIAPCISR	26	01
AIAPCOL	17	
AIAPDDEL	24	80
AIAPDRPL	24	40
AIAPGFLT	25	02
AIAPGSCM	D	10
AIAPGVIO	F	04
AIAPNDX	14	

Table 32. Cross Reference for AIA (continued)

Name	Offset	Hex Tag
AIAPRCCW	26	08
AIAPRCPR	25	08
AIAPRIER	E	08
AIAPRINO	F	40
AIAPRIV	D	40
AIAPROW	15	
AIAPRSCM	25	01
AIAPSLTF	25	04
AIAPURGE	24	04
AIAREDRV	25	40
AIARPN	18	
AIARREC	F	01
AIARSA	2C	
AIARSA64	28	
AIARSVD1	39	
AIARSV5	F	80
AIASCMBLOCKID	14	
AIASCMPR	18	
AIASCMPREF	38	80
AIASCMREQD	D	01
AIASLOT	15	
AIASPILL	F	02
AIASTGER	D	02
AIASWAP	E	10
AIASWCMP	27	20
AIASWIO	25	20
AIASWPDR	26	10
AIATERMR	E	40
AIATRACE	25	
AIATRPSP	F	20
AIAVIO	D	20
AIAVIOCM	27	10
AIAVIODR	25	10
AIAVRCTK	1C	
AIAWRITE	D	80
AIA1MPAG	24	01

Chapter 11. AMDDATA Information

AMDDATA Programming Interface Information

AMDDATA is a programming interface.

AMDDATA Heading Information

Common Name:	Dump Records Mapping
Macro ID:	AMDDATA
DSECT Name:	ADSSRNSD - Symptom String Data for MVS ADSSRCRS - Symptom String Data for RETAIN PRDINPUT - Common dumping parameters PRDSDOPS - SDUMP Options PRDSDPMS - SDUMP Parameter List PRDSDSM - SDUMP/SYSMDUMP Section PRDSDWA - SDWA PRDSLIP - SLIP Section PRDSYSMD - SYSMDUMP Section
Owning Component:	Dump Analysis and Elimination (SC143)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 239 Key: 0
Size:	AMDDATA -- 4160 bytes
Created by:	IEAVTSDI - does the getmain for storage IEAVTSDH, AMDSADM2, ADYPRED - initialize the data area
Pointed to by:	Not applicable
Serialization:	None required
Function:	This macro defines dump header records, central processing unit status records, symptom records or dump data records created bybending jobname, module name, stand-alone, SVC, or slip dumps, or SYSMDUMPs.

AMDDATA mapping

Table 33. Structure PRDINPUT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDINPUT	, Main DSECT for dump record
0	(0)	CHARACTER	64	PRDPREF	Dump record prefix
64	(40)	CHARACTER	4096	PRDDATA	Dump record body
0	(0)	X'80'	0	BIT0	"128"
0	(0)	X'40'	0	BIT1	"64"
0	(0)	X'20'	0	BIT2	"32"
0	(0)	X'10'	0	BIT3	"16"
0	(0)	X'8'	0	BIT4	"8"
0	(0)	X'4'	0	BIT5	"4"
0	(0)	X'2'	0	BIT6	"2"
0	(0)	X'1'	0	BIT7	"1"
0	(0)	X'40'	0	PRDSIZ	"64" Length of dump record prefix
0	(0)	SIGNED	4	(0)	Align on fullword boundary
0	(0)	CHARACTER	1	PRD(0)	Dump prefix
Dump record prefix #MD07340					
0	(0)	CHARACTER	3	PRDID(0)	Dump record prefix identifier
0	(0)	CHARACTER	2	PRDIDC	Dump record prefix eye-catcher

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Table 33. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'C4D9'	0	PRDIDCV	"C'DR',2,C'C'" Dump record prefix eye-catcher
2	(2)	CHARACTER	1	PRDIDV	Dump record prefix version
2	(2)	X'F1'	0	PRDIDV31	"C'1',1,C'C'" 31-bit support levels
2	(2)	X'F2'	0	PRDIDV64	"C'2',1,C'C'" 64-bit support levels
3	(3)	ADDRESS	1	PRDLEN	Dump record prefix length

An IPCS address space is specified by three values:
(1) A two-character code identifying the type of address space:
- Letter code A indicates that the file contains an MVS high-speed dump and that absolute main storage of the dumped system is being referenced (ABSOLUTE)
- Code BL indicates that a physical block in a file is being referenced using a relative block number (BLOCK)
- Code BS indicates that a relative byte address group in the file is being referenced (RBA)
- Code BT indicates that a physical block in a file is being referenced using a relative track address (TTR)
- Letter code C indicates that the file contains an MVS high-speed dump and that the CPU status data for one dumped CPU is being referenced (CPU STATUS)
- Code CE indicates that the file contains an MVS high-speed dump and that vector registers for one CPU are being referenced (CPU DOMAIN(VECTOR))
- Code CR indicates that the file contains an MVS high-speed dump and that real main storage seen by one CPU is being referenced (CPU REAL)
- Code CT indicates that the file contains an MVS high-speed dump and that a console loop trace for one CPU is being referenced (CPU DOMAIN(CPUTRACE))
- Code CV indicates that the file contains an MVS high-speed dump and that virtual main storage seen by one MVS address space dispatched on a designated CPU is being referenced (CPU ASID)
- Code DS indicates that the file contains an MVS high-speed dump and that a data space is being referenced (ASID DSPNAME)
- Letter code H indicates that the file contains an MVS

Table 33. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		high-speed dump and that the header data for the dump is being referenced (HEADER) - Code LI refers to a literal value associated with a symbol (LITERAL) - Code SB indicates that the file contains an MVS high-speed dump and that the SDUMP 4K buffer is being referenced (DOMAIN(SDUMPBUFFER)) - Code SC indicates that the file contains an MVS high-speed dump and that component data is being referenced (COMPDATA) - Code SD indicates that the file contains an MVS high-speed dump and that the SDUMP summary dump records are being referenced (DOMAIN(SUMDUMP)) - Code SS indicates that the file contains an MVS high-speed dump and that the portion of a data space represented in summary dump records is being referenced (ASID DSPNAME SUMDUMP) - Code SV indicates that the file contains an MVS high-speed dump and that the portion of one MVS address space represented in summary dump records is being referenced (ASID SUMDUMP) (2) A binary integer whose interpretation depends on the preceding code: - For code BL this integer should be the relative block number - For code BS this integer should be the relative byte address group number - For code BT this integer should be the relative track address - For codes DS and SS this integer contains the address space identification (ASID) for the address space that owns the referenced data space. - For code LI this integer is an arbitrary number that IPCS associates with the symbolic literal. Zero is used for literals when no storage is available. - For codes beginning with the letter C this integer contains the System/370 CPU address (STAP instruction) for the referenced			
		CPU or X'FFFFFFFF'. - For other codes this integer has no meaning and should be set to X'FFFFFFFF'. (3) A doubleword whose interpretation depends on the preceding code: - For code A the first fullword contains zero normally. A non-zero associated ASID may appear in the first fullword in the dump header of records written by SADUMP. The second fullword contains binary zeroes in all cases. - For codes CV and SV the first fullword is interpreted as a binary integer that contains the address space identification (ASID) for the referenced address space, and the second fullword contains binary zeroes. - For codes DS and SS the doubleword is interpreted as the DSPNAME for the referenced data space. - For code SC the doubleword is interpreted as a component identifier. - For other codes this doubleword has no meaning and should be set to zero.			
4	(4)	SIGNED	4	(0)	Align on word boundary
4	(4)	CHARACTER	16	PRDAS(0)	IPCS address space descriptor
4	(4)	CHARACTER	1	PRDAS0(0)	Begin BLSRDATS #MD03009
4	(4)	CHARACTER	2	PRDAST(0)	Address space type code
4	(4)	ADDRESS	2		Address space type code
4	(4)	X'C140'	0	ZZZASTA	"C'A '" ABSOLUTE
4	(4)	X'C2D3'	0	ZZZASTBL	"C'BL'" BLOCK
4	(4)	X'C2E2'	0	ZZZASTBS	"C'BS'" RBA

Table 33. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'C2E3'	0	ZZZASTBT	"C'BT'" TTR
4	(4)	X'C340'	0	ZZZASTC	"C'C '" CPU STATUS
4	(4)	X'C3C5'	0	ZZZASTCE	"C'CE'" CPU DOMAIN(VECTOR)
4	(4)	X'C3D9'	0	ZZZASTCR	"C'CR'" CPU REAL
4	(4)	X'C3E3'	0	ZZZASTCT	"C'CT'" CPU DOMAIN(CPUTRACE)
4	(4)	X'C3E5'	0	ZZZASTCV	"C'CV'" CPU ASID
4	(4)	X'C4E2'	0	ZZZASTDS	"C'DS'" ASID DSPNAME
4	(4)	X'C840'	0	ZZZASTH	"C'H '" HEADER
4	(4)	X'D3C9'	0	ZZZASTLI	"C'LI'" LITERAL
4	(4)	X'4040'	0	ZZZASTNO	"C' '" No address space type code
4	(4)	X'E2C2'	0	ZZZASTSB	"C'SB'" DOMAIN(SDUMPBUFFER)
4	(4)	X'E2C3'	0	ZZZASTSC	"C'SC'" COMPDATA
4	(4)	X'E2C4'	0	ZZZASTSD	"C'SD'" DOMAIN(SUMDUMP)
4	(4)	X'E2E2'	0	ZZZASTSS	"C'SS'" ASID DSPNAME SUMDUMP
4	(4)	X'E2E5'	0	ZZZASTSV	"C'SV'" ASID SUMDUMP
6	(6)	BITSTRING	2	PRDASH	Reserved
8	(8)	SIGNED	4	PRDAS1(0)	Integer 1
8	(8)	SIGNED	4		Integer 1
12	(C)	CHARACTER	8	PRDASC(0)	Second qualifier
12	(C)	SIGNED	4	PRDAS2(0)	Integer 2
12	(C)	SIGNED	4		Integer 2
16	(10)	BITSTRING	4	PRDAS3	Reserved
20	(14)	CHARACTER	1	PRDAS9(0)	End BLSRDATS #MD03009
20	(14)	ADDRESS	4	PRDLAD	Logical address
24	(18)	SIGNED	4	PRDSEQ	Sequence number used to prevent dumps from merging
28	(1C)	SIGNED	4	(2)	Reserved for data common to all types of dump records
36	(24)	BITSTRING	28	PRDTYPD	Record type specific data
64	(40)	CHARACTER	1	PRD999(0)	End BLSRDRPX #MD07340
Store Status Record (type C) Data					
36	(24)	BITSTRING	1	PRDFLAGS	Store status flags
		1...		PRDSSINV	"BIT0" Store status may be invalid
		.1..		PRDSIGPF	"BIT1" SIGP Stop and Store Status failed. The GPR designated by the R1 field of the SIGP instruction is stored at offset X'110' (PRDSIGPS) of the CPU status record.
		..1.		PRDGPRVL	"BIT2" GPRs valid despite invalid Store Status.
		...1		PRDBFP	"BIT3" OS/390 R6 or later - BFP support
		.... 1...		PRDBFPV	"BIT4" FPRs valid in extended status
		.... .1..		PRDBFPH	"BIT5" Not used
		.... ..1.		PRDZ1V	"BIT6"
		1		PRDZARCH	"BIT7" Status in z/Architecture format

Table 33. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		PRDESAME	"BIT7" Status in z/Architecture format
37	(25)	BITSTRING	27		Reserved
Dump Header Record (type H) Data					
36	(24)	BITSTRING	1	PRDDUMPT	Dump type
36	(24)	X'1'	0	PRDSADP	"1" Stand alone dump
36	(24)	X'2'	0	PRDSVCDP	"2" SVC dump
36	(24)	X'3'	0	PRDSMDP	"3" SYSMDUMP
36	(24)	X'4'	0	PRDSLPDP	"4" SLIP dump
36	(24)	X'5'	0	PRDBLSDP	"5" IPCS active
37	(25)	BITSTRING	27		Reserved
Storage Record (types A, CV, DS, SS, SV) Data					
36	(24)	BITSTRING	1	PRDKEY	Storage key for page
		1111 1111		PRDKEYQ	"X'FF'" Storage key not known
		1111		PRDKEYA	"BIT0+BIT1+BIT2+BIT3" Access-control code
		.... 1...		PRDKEYF	"BIT4" Fetch-protection indicator
		.... .11.		PRDKEYU	"BIT5+BIT6" Page usage indicators
		.... .1..		PRDKEYR	"BIT5" Page referenced
		.... ..1.		PRDKEYC	"BIT6" Page changed
37	(25)	BITSTRING	5		Reserved for common fields
42	(2A)	BITSTRING	22	PRDTYPS	Record type specific data
Data Space Storage Record (type DS, SS) Data.					
42	(2A)	SIGNED	2		Reserved
The following supplements the ASID and Data Space information.					
44	(2C)	ADDRESS	4	PRDASTE	Absolute address of ASTE
48	(30)	BITSTRING	8	PRDSTOKN	STOKEN
56	(38)	BITSTRING	8		Reserved
Storage Record (types CV, SV and SC) data. Note: The only COMPDATA record for which this information is regarded as present is COMPDATA(IARHVSHR) at this time.					
42	(2A)	BITSTRING	1	PRDSTYP	System area type
		1...		PRDCOMM	"BIT0" Common area
		.1..		PRDAAF	"BIT1" Absolute address given
		..1.		PRDSHARE	"BIT2" Shared
43	(2B)	BITSTRING	1		Reserved
44	(2C)	ADDRESS	4	PRDAAP	Absolute address
48	(30)	BITSTRING	16		Reserved
0	(0)	X'40'	0	PRD64SIZ	"64" Length of dump record prefix
0	(0)	SIGNED	4	(0)	Align on fullword boundary
0	(0)	CHARACTER	1	PRD64(0)	Dump prefix
Dump record prefix #MD07340					
0	(0)	CHARACTER	3	PRD64ID(0)	Dump record prefix identifier
0	(0)	CHARACTER	2	PRD64IDC	Dump record prefix eye-catcher

Table 33. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'C4D9'	0	PRD64IDCV	"C'DR',2,C'C'" Dump record prefix eye-catcher
2	(2)	CHARACTER	1	PRD64IDV	Dump record prefix version
2	(2)	X'F1'	0	PRD64IDV31	"C'1',1,C'C'" 31-bit support levels
2	(2)	X'F2'	0	PRD64IDV64	"C'2',1,C'C'" 64-bit support levels
3	(3)	ADDRESS	1	PRD64LEN	Dump record prefix length
4	(4)	SIGNED	4	(0)	Align on word boundary
4	(4)	CHARACTER	16	PRD64AS(0)	IPCS address space descriptor
4	(4)	CHARACTER	1	PRD64AS0(0)	Begin BLSRDATS #MD03009
4	(4)	CHARACTER	2	PRD64AST(0)	Address space type code
4	(4)	ADDRESS	2		Address space type code
6	(6)	BITSTRING	2	PRD64ASH	Reserved
8	(8)	SIGNED	4	PRD64AS1(0)	Integer 1
8	(8)	SIGNED	4		Integer 1
12	(C)	CHARACTER	8	PRD64ASC(0)	Second qualifier
12	(C)	SIGNED	4	PRD64AS2(0)	Integer 2
12	(C)	SIGNED	4		Integer 2
16	(10)	BITSTRING	4	PRD64AS3	Reserved
20	(14)	CHARACTER	1	PRD64AS9(0)	End BLSRDATS #MD03009
20	(14)	BITSTRING	8	PRD64LAD	Logical address
28	(1C)	SIGNED	4	PRD64SEQ	Sequence number used to prevent dumps from merging
32	(20)	BITSTRING	2		Reserved for data common to all types of dump records
34	(22)	ADDRESS	1	PRD64MSN	Merge sequence number
35	(23)	ADDRESS	1	PRD64PHASE	Phase of dumping program
35	(23)	X'0'	0	PRD64PHASE0	"0" No phase recorded
35	(23)	X'1'	0	PRD64PHASESADMPA	"1" SADMP early real data collection
35	(23)	X'2'	0	PRD64PHASESADMPB	"2" SADMP virtual data collection
35	(23)	X'3'	0	PRD64PHASESADMPC	"3" SADMP added real data collection
35	(23)	X'4'	0	PRD64PHASESADMPPFT	"4" SADMP - PFT
35	(23)	X'5'	0	PRD64PHASESADMPMINI	"5" SADMP - Minimal ASID real
35	(23)	X'6'	0	PRD64PHASESADMPSUMI	"6" SADMP - Summary ASID real
35	(23)	X'7'	0	PRD64PHASESADMPIN	"7" SADMP - Swapped-in ASID real
35	(23)	X'8'	0	PRD64PHASESADMPUSED	"8" SADMP - In-use real
35	(23)	X'9'	0	PRD64PHASESADMPMINO	"9" SADMP - Minimal ASID virtual
35	(23)	X'A'	0	PRD64PHASESADMPSUMO	"10" SADMP - Summary ASID virtual
35	(23)	X'B'	0	PRD64PHASESADMPPAGED	"11" SADMP - Swapped-in ASID virtual
35	(23)	X'C'	0	PRD64PHASESADMPSWAP	"12" SADMP - Swapped-out ASID virtual
35	(23)	X'D'	0	PRD64PHASESADMPRSRV	"13" SADMP - Available real
35	(23)	X'FF'	0	PRD64MAXMSN	"255" Maximum DrpxMSN
36	(24)	BITSTRING	28	PRD64TYPD	Record type specific data
64	(40)	CHARACTER	1	PRD64999(0)	End BLSRDRPX #MD07340

Store Status Record (type C) Data

Table 33. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	BITSTRING	1	PRD64FLAGS	Store status flags
		1...		PRD64SSINV	"BIT0" Store status may be invalid
		.1..		PRD64SIGPF	"BIT1" SIGP Stop and Store Status failed. The GPR designated by the R1 field of the SIGP instruction is stored at offset X'110' (PRDSIGPS) of the CPU status record.
		..1.		PRD64GPRVL	"BIT2" GPRs valid despite invalid Store Status.
		...1		PRD64BFP	"BIT3" OS/390 R6 or later - BFP support
		.... 1...		PRD64BFPV	"BIT4" FPRs valid in extended status
		.... .1..		PRD64BFPH	"BIT5" Not used
		.... ..1.		PRD64Z1V	"BIT6"
		1		PRD64ZARCH	"BIT7" Status in z/Architecture format
		1		PRD64ESAME	"BIT7" Status in z/Architecture format
37	(25)	BITSTRING	27		Reserved
Dump Header Record (type H) Data					
36	(24)	BITSTRING	1	PRD64DUMPT	Dump type
36	(24)	X'1'	0	PRD64SADP	"1" Stand alone dump
36	(24)	X'2'	0	PRD64SVCDP	"2" SVC dump
36	(24)	X'3'	0	PRD64SMDP	"3" SYSMDUMP
36	(24)	X'4'	0	PRD64SLPDP	"4" SLIP dump
36	(24)	X'5'	0	PRD64BLSDP	"5" IPCS active
37	(25)	BITSTRING	27		Reserved
Storage Record (types A, CV, DS, SS, SV) Data					
36	(24)	BITSTRING	1	PRD64KEY	Storage key for page
		1111 1111		PRD64KEYQ	"X'FF'" Storage key not known
		1111		PRD64KEYA	"BIT0+BIT1+BIT2+BIT3" Access-control code
		.... 1...		PRD64KEYF	"BIT4" Fetch-protection indicator
		.... .11.		PRD64KEYU	"BIT5+BIT6" Page usage indicators
		.... .1..		PRD64KEYR	"BIT5" Page referenced
		.... ..1.		PRD64KEYC	"BIT6" Page changed
37	(25)	BITSTRING	5		Reserved for common fields
42	(2A)	BITSTRING	22	PRD64TYPS	Record type specific data
Data Space Storage Record (type DS, SS) Data.					
42	(2A)	SIGNED	2		Reserved
44	(2C)	BITSTRING	20		Reserved
Storage Record (types CV, SV and SC) data. Note: The only COMPDATA record for which this information is regarded as present is COMPDATA(IARHVSHR) at this time.					

Table 33. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
42	(2A)	BITSTRING	1	PRD64STYP	System area type
		1...		PRD64COMM	"BIT0" Common area
		.1..		PRD64AAF	"BIT1" Absolute address given
		..1.		PRD64SHARE	"BIT2" Shared
43	(2B)	BITSTRING	1		Reserved
44	(2C)	BITSTRING	8	PRD64AAP	Absolute address
52	(34)	BITSTRING	12		Reserved

Table 34. Structure PRDINPUT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDINPUT	
64	(40)	CHARACTER	8	PRDMODNM	NAME OF PGM REQUESTING DUMP
72	(48)	CHARACTER	8	PRDTODVL	CLOCK VALUE AT TIME OF DUMP
80	(50)	CHARACTER	8	PRDCPU(0)	PROCESSOR IDENTIFICATION
80	(50)	CHARACTER	1	PRDPVRSN	PROCESSOR VERSION CODE IN HEX
81	(51)	CHARACTER	3	PRDPSERL	PROCESSOR SERIAL NUMBER IN HEX
84	(54)	CHARACTER	2	PRDPMODL	PROCESSOR MODEL NUMBER IN HEX
86	(56)	CHARACTER	2	PRDPCPU@	PHYSICAL CPU ADDRESS IN HEX
88	(58)	CHARACTER	100	PRDTITLE	TITLE FROM DUMP
188	(BC)	CHARACTER	8	PRDDSPB	TIME SYSTEM SET NON-DISPATCHABLE
196	(C4)	CHARACTER	8	PRDDSPE	TIME SYSTEM RESET DISPATCHABLE
204	(CC)	CHARACTER	8	PRDSNAME	SYSTEM NAME
212	(D4)	CHARACTER	12		RESERVED - Aligns PRDSDRSN
224	(E0)	CHARACTER	16	PRDSDRSN	SVC Dump reason code (only for SVC dump captured dumps)
240	(F0)	SIGNED	4	PRDSDBLK	Number of blocks in a captured dump (est. for auto alloc)
244	(F4)	CHARACTER	16	PRDPRODN	Product name
260	(104)	CHARACTER	2	PRDPRODV	Product version
262	(106)	CHARACTER	2	PRDPRODR	Product release
264	(108)	CHARACTER	2	PRDPRODM	Product modification
266	(10A)	CHARACTER	1	PRDPRODD	Product development level
267	(10B)	CHARACTER	1		RESERVED
268	(10C)	CHARACTER	8	PRDBEA	Breaking Event Address Register
276	(114)	CHARACTER	46		RESERVED
322	(142)	SIGNED	2	PRDADSS0	Offset of ADSS
324	(144)	CHARACTER	16	PRDXMP16	16-byte analog of PRDXMPSW
340	(154)	CHARACTER	16	PRDPSW16	16-byte analog of PRDPSW
356	(164)	SIGNED	4	PRDSDFWD	POINTER USED FOR HEADER CHAIN
THE FOLLOWING FIELDS ARE OFFSETS TO OTHER SECTIONS OF THE HEADER ALONG WITH THE LENGTHS. IF THE OFFSET FIELD IS ZERO THEN THE CORRESPONDING SECTION DOES NOT EXIST					
360	(168)	CHARACTER	16	PRDOFSET(0)	OFFSETS
360	(168)	SIGNED	2	PRDSDMPO	OFFSET OF SDUMP/SYSMDUMP COMMON SECTION
362	(16A)	SIGNED	2	PRDSDMPL	LENGTH OF COMMON SECTION
364	(16C)	SIGNED	2	PRDSLIPO	OFFSET OF SLIP SECTION
366	(16E)	SIGNED	2	PRDSLIPL	LENGTH OF SLIP SECTION
368	(170)	SIGNED	2	PRDSYSMO	OFFSET OF SYSMDUMP SECTION
370	(172)	SIGNED	2	PRDSYSML	LENGTH OF SYSMDUMP SECTION

Table 34. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
372	(174)	SIGNED	2	PRDSDWAO	OFFSET OF SDWA FOR THIS DUMP
374	(176)	SIGNED	2	PRDSDWAL	LENGTH OF SDWA
376	(178)	CHARACTER	50	PRDCID	CALLER'S ID
426	(1AA)	SIGNED	2	PRDINTKO	Offset of incident token If 0, no incident token exists

Table 35. Structure PRDSDWA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDSDWA	, SDWA FOR THIS DUMP

Table 36. Structure PRDSDSM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDSDSM	
0	(0)	CHARACTER	4	PRDCVT	VIRTUAL ADDRESS OF CVT
4	(4)	CHARACTER	1	PRDFLG1	Flag byte
		1...		PRDME	"BIT0" ESAME mode
		.1..		PRDVGPRF	"BIT1" 64-bit SVC Dump regs on entry
		.1..		PRDMESET	"BIT1" For SADMP, on if dump was taken by a level of SADMP which sets PRDME
		..1.		PRDLGPRF	"BIT2" 64-bit SLIP regs on entry
		...1		PRDMGPRF	"BIT3" 64-bit SYSMDUMP regs at error
5	(5)	CHARACTER	1		RESERVED
6	(6)	CHARACTER	10	PRDERRID	ERRORID ASSOCIATED WITH DUMP
16	(10)	CHARACTER	44	PRDDSNAM	DSN TO WHICH DUMP WAS TAKEN
60	(3C)	CHARACTER	18	PRDXM(0)	CROSS MEMORY STATUS INFO WHEN SDUMP WAS INVOKED
60	(3C)	CHARACTER	4	PRDCML	ASCB ADDRESS OF CML ASID
64	(40)	CHARACTER	8	PRDXMPSW	PSW WHEN SDUMP WAS INVOKED
72	(48)	SIGNED	2	PRDPASID	PRIMARY ASID
74	(4A)	SIGNED	2	PRDSASID	SECONDARY ASID
76	(4C)	SIGNED	2	PRDHASID	HOME ASID
78	(4E)	SIGNED	2	PRDWASID	SDWA OWNERS ASID
80	(50)	SIGNED	4	PRDSADDR	ADDRESS WHERE SDWA EXISTED
84	(54)	SIGNED	4	PRDTTCH(0)	POINTER TO TRACE TABLE CONTROL HDR
84	(54)	SIGNED	4	PRDPSAAD	If non-zero, the absolute address of an MVS PSA which SADMP used to locate other MVS control blocks.
88	(58)	SIGNED	2	PRDSDPO	OFFSET OF SVC DUMP PARM LIST
90	(5A)	SIGNED	2	PRDSDPL	LENGTH OF SVC DUMP PARM LIST
92	(5C)	SIGNED	2	PRDSDOPO	OFFSET OF SDUMP OPTIONS LIST
94	(5E)	SIGNED	2	PRDSDOPL	LENGTH OF SDUMP OPTIONS LIST
96	(60)	SIGNED	4	PRDTCB	POINTER TO TCB OF TASK WHICH REQUESTED THE DUMP

Table 36. Structure PRDSDSM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
100	(64)	CHARACTER	3	PRDDIDCO	DUMP ID USED FOR MESSAGES AND TO IDENTIFY THE DUMP TO THE OPERATOR
103	(67)	CHARACTER	1		RESERVED
104	(68)	CHARACTER	428	PRDCPUST(0)	CPU STATUS SECTION
104	(68)	CHARACTER	428	PRDREGS(0)	REGISTERS
104	(68)	CHARACTER	32		Unused
136	(88)	CHARACTER	64	PRDGPR	GPR'S UPON ENTERING SDUMP
200	(C8)	CHARACTER	64	PRDCR	Used only in special IPCS code
264	(108)	CHARACTER	8	PRDPSW	CALLERS PSW BEFORE SDUMP
272	(110)	CHARACTER	64	PRDAR	ACCESS REGS UPON ENTERING SDUMP
336	(150)	CHARACTER	128	PRDFPR	FPR'S UPON ENTERING SDUMP
464	(1D0)	CHARACTER	4	PRDFPCR	FPCR
468	(1D4)	CHARACTER	4		RESERVED
472	(1D8)	SIGNED	4	(0)	
472	(1D8)	CHARACTER	64	PRDG64H	G64H UPON ENTERING SDUMP
536	(218)	CHARACTER	128	PRDC64S	ESAME CRs at SDUMP entry
664	(298)	SIGNED	4	PRDCSA	START OF COMMON STORAGE
668	(29C)	SIGNED	4	PRDEPVT	END OF COMMON STORAGE
672	(2A0)	CHARACTER	8	PRDHJOBN	PRDHASID JOBNAME
680	(2A8)	CHARACTER	8	PRDHVSS	START OF HIGH VIRTUAL SHARED AREA
688	(2B0)	CHARACTER	8	PRDHVHP	START OF HIGH VIRTUAL HIGH PRIVATE AREA
696	(2B8)	CHARACTER	8	PRDHVCO	High Virtual Common Origin
704	(2C0)	SIGNED	4	PRDTTCH2	Pointer to the trace table control header of the SNAPTRC which was issued by SDUMP when the system is reset to dispatchable prematurely

Table 37. Structure PRDSDPM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDSDPM	, SDUMP PARM LIST IN BITS

Table 38. Structure PRDSDOPS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDSDOPS	, SDUMP OPTIONS IN BITS

Table 39. Structure PRDSLIP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDSLIP	
0	(0)	CHARACTER	8	PRDSLPSW	PSW WHEN SLIP WAS ENTERED
8	(8)	CHARACTER	8	PRDSLBEA	BEAR when SLIP was Entered
16	(10)	CHARACTER	64	PRDSLGPR	GPR'S WHEN SLIP WAS ENTERED
80	(50)	CHARACTER	64	PRDSLAR	ACCESS REGISTERS WHEN SLIP WAS ENTERED

Table 39. Structure PRDSLIP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
144	(90)	CHARACTER	64	(0)	Was PRDSLCR
144	(90)	DBL WORD	8	PRDSLPC3	CONTROL REG 3
152	(98)	DBL WORD	8	PRDSLPC4	CONTROL REG 4
160	(A0)	CHARACTER	16	PRDSLP16	16-byte PSW
176	(B0)	CHARACTER	32		Reserved
208	(D0)	CHARACTER	64	PRDSLG6H	High halves of GPRs when SLIP was entered
272	(110)	CHARACTER	128	PRDSLC64	ESAME CRs when SLIP WAS ENTERED

Table 40. Structure PRDSYSMD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDSYSMD	
0	(0)	CHARACTER	4	PRDSMABD	ABEND CODE FOR THE ERROR
4	(4)	CHARACTER	8	PRDSMPSW	PSW AT ENTRY TO ABEND
12	(C)	CHARACTER	8	PRDSMLMN	NAME OF ACTIVE LOAD MODULE AT TIME OF ERROR
20	(14)	SIGNED	4	PRDSMLMA	@ OF ACTIVE LOAD MODULE
24	(18)	SIGNED	4	PRDSMLMO	OFFSET INTO ACTIVE LOAD MODULE POINTED TO BY PSW
28	(1C)	CHARACTER	12	PRDSMPDA	DATA AT PSW @ (6+ 6-)
40	(28)	CHARACTER	64	PRDSMGPR	GPR'S AT TIME OF ERROR
104	(68)	CHARACTER	4	PRDSMRSN	REASON CODE FOR THE ERROR
108	(6C)	CHARACTER	64	PRDSMAR	AR'S AT TIME OF ERROR
172	(AC)	CHARACTER	8	PRDSMBEA	BEAR AT TIME OF ERROR
180	(B4)	CHARACTER	40		Unused
220	(DC)	CHARACTER	16	PRDSMPSW16	PSW AT ENTRY TO ABEND
236	(EC)	CHARACTER	64	PRDSMG6H	High halves of GPRs at time of error
300	(12C)	CHARACTER	128	PRDSMC64	ESAME CRs

Table 41. Structure PRDINTKD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDINTKD	
0	(0)	CHARACTER	32	PRDINTKN	Incident token

Table 42. Structure PRDINPUT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDINPUT	
64	(40)	SIGNED	4	PRDCPURC(0)	
64	(40)	CHARACTER	4096	PRDSTATS(0)	STORE STATUS DATA.
64	(40)	CHARACTER	212		PAD.
276	(114)	ADDRESS	4	PRDXADDR	EXTENDED-SAVE-AREA ADDRESS
280	(118)	CHARACTER	296	PRDSTST(0)	STORE STATUS DATA
280	(118)	CHARACTER	40	PRDSTST1(0)	
280	(118)	CHARACTER	8	PRDTIMER	CPU TIMER.
288	(120)	CHARACTER	8	PRDCLKCP	CPU CLOCK COMPARATOR.

Table 42. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
296	(128)	CHARACTER	24		PAD.
320	(140)	CHARACTER	256	PRDSTST2(0)	
320	(140)	CHARACTER	8	PRDPSW2	CURRENT PSW.
328	(148)	SIGNED	4	PRDPSA	PREFIX VALUE.
332	(14C)	CHARACTER	4	PRDMDF	MODEL DEPENDENT FIELD.
336	(150)	CHARACTER	4	PRDSIGPS	SENSE INFORMATION RETURNED WHEN THE SIGP STOP AND STORE STATUS ORDER IN AMDSADIP FAILED
340	(154)	CHARACTER	4	PRDSIGP2	STATUS INFORMATION RETURNED WHEN THE SIGP STOP AND STORE STATUS ORDER IN AMDSACPU FAILED
344	(158)	CHARACTER	8		PAD.
352	(160)	CHARACTER	64	PRDARSA(0)	ACCESS REGISTERS SAVE AREA
352	(160)	CHARACTER	4	PRDAREGS(16)	ACCESS REGISTERS 0-15.
416	(1A0)	CHARACTER	32	PRDFPRSA(0)	FLOATING POINT REGISTERS SAVE AREA
416	(1A0)	CHARACTER	8	PRDFLPT(4)	FLOATING POINT REGISTERS 0,2,4,6
448	(1C0)	CHARACTER	64	PRDGPRSA(0)	GENERAL PURPOSE REGISTERS SAVE AREA
448	(1C0)	CHARACTER	4	PRDGREGS(16)	GENERAL PURPOSE REGISTERS 0-15.
512	(200)	CHARACTER	64	PRDCRSA(0)	CONTROL REGISTERS SAVE AREA
512	(200)	CHARACTER	4	PRDCTL(16)	CONTROL REGISTERS 0-15.
576	(240)	CHARACTER	256	PRDSTSTX(0)	EXTENDED STATUS DATA.
576	(240)	CHARACTER	16		PAD.
592	(250)	CHARACTER	4	PRDFPCTL	FLOATING POINT CONTROL.
596	(254)	CHARACTER	108		PAD.
704	(2C0)	CHARACTER	128	PRDFPRSX(0)	FLOATING POINT REGISTER SAVE AREA (EXTENDED)
704	(2C0)	CHARACTER	8	PRDFLPTX(16)	FLOATING POINT REGISTERS 0-15.
832	(340)	CHARACTER	3328		PAD.

Table 43. Structure PRDINPUT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDINPUT	
64	(40)	CHARACTER	4096	PRXSTATS(0)	ESAME STORE STATUS DATA.
64	(40)	CHARACTER	448		PAD.
512	(200)	CHARACTER	64	(0)	Reserved for programming
512	(200)	CHARACTER	16	PRXRELPSW	Related PSW
528	(210)	BITSTRING	1	PRXFLAGS	Flags
		1...		PRXRELPSWVALID	"X'80'" PrxRelPsw contains a PSW
		.1..		PRXPSWFROMLSCA	"X'40'" 0 - PrxPsw is from store status, and PrxRelPsw is from LSCA. 1- PrxPsw is from LSCA, and PrxRelPsw is from store status. SADMP puts what it thinks is the more relevant PSW into PrxPsw.
529	(211)	CHARACTER	47		Reserved
576	(240)	CHARACTER	512	PRXSTST(0)	
576	(240)	CHARACTER	256	PRXSTST1(0)	

Table 43. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
576	(240)	CHARACTER	128	PRXFPRSA(0)	FLOATING POINT REGISTER SAVE AREA.
576	(240)	CHARACTER	8	PRXFLPTR(16)	FLOATING POINT REGISTERS 0-15.
704	(2C0)	CHARACTER	128	PRXGPRSA(0)	GENERAL PURPOSE REGISTERS SAVE AREA.
704	(2C0)	CHARACTER	8	PRXGREGS(16)	GENERAL PURPOSE REGISTERS 0-15.
832	(340)	CHARACTER	256	PRXSTST2(0)	
832	(340)	CHARACTER	16	PRXPSW	CURRENT PSW.
848	(350)	CHARACTER	1	PRXARCID	ARCHITECTURE ID.
		1		PRXESAME	"X'01'"
849	(351)	CHARACTER	3		PAD.
852	(354)	CHARACTER	4	PRXSIGPS	SIGP SENSE INFORMATION.
856	(358)	CHARACTER	4	PRXPSA	PREFIX VALUE.
860	(35C)	CHARACTER	4	PRXFPCTL	FLOATING POINT CONTROL.
864	(360)	CHARACTER	8	PRXTIMER	CPU TIMER.
872	(368)	CHARACTER	8	PRXCLKCP	CPU CLOCK COMPARATOR.
880	(370)	CHARACTER	16		PAD.
896	(380)	CHARACTER	64	PRXARSA(0)	ACCESS REGISTER SAVE AREA.
896	(380)	CHARACTER	4	PRXAREGS(16)	ACCESS REGISTERS 0-15.
960	(3C0)	CHARACTER	128	PRXCRSA(0)	CONTROL REGISTERS SAVE AREA.
960	(3C0)	CHARACTER	8	PRXCTL(16)	CONTROL REGISTERS 0-15.
1088	(440)	CHARACTER	512	PRXZ1	
1600	(640)	CHARACTER	2560		PAD.

Table 44. Structure IATB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IATB	INSTRUCTION ADDRESS TRACE BUFFER.
0	(0)	CHARACTER	160	IATBFRN(0)	FRONT DATA.
0	(0)	CHARACTER	6	IATBTM1	BYTES 0-5 OF THE TOD CLOCK ASSOCIATED WITH THE SPECIFIED CPU WHEN THE TRACE WAS LAST ACTIVATED.
6	(6)	CHARACTER	2		RESERVED.
8	(8)	CHARACTER	8	IATBPSW(0)	PSW.
8	(8)	CHARACTER	4	IATBPSW1	PSW FIRST WORD.
12	(C)	CHARACTER	4	IATBPSW2	PSW SECOND WORD.
16	(10)	CHARACTER	4	IATBGPR(16)	GENERAL PURPOSE REGISTERS 0-15.
80	(50)	CHARACTER	4	IATBCR(16)	CONTROL REGISTERS 0-15.
144	(90)	CHARACTER	6		RESERVED - ZEROS.
150	(96)	CHARACTER	1	IATBTFM	TIMESTAMP FORMAT ('02'X).
151	(97)	CHARACTER	1		RESERVED - ZERO.
152	(98)	CHARACTER	2	IATBICN	NUMBER OF INSTRUCTION ADDRESS TRACE ENTRIES RECORDED.
154	(9A)	CHARACTER	6		RESERVED.
160	(A0)	CHARACTER	4	IATBCTR(214)	INSTRUCTION ADDRESS TRACE ENTRIES (MAXIMUM NUMBER OF ENTRIES IS 982, EACH ENTRY IS FOUR BYTES LONG).

Table 45. Structure PRDINPUT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDINPUT	
PRINT DUMP SYMPTOM AREA FORMAT THIS AREA IS DEFINED ON PRDSR WHICH BEGINS 2048 INTO THE HEADER RECORD BUILT BY SDUMP. THERE IS A REQUIREMENT THAT THE SYMPTOM STRING HEADER RECORD BEGIN AT THAT OFFSET.					
2112	(840)	CHARACTER	2048	PRDSR(0)	PRINT DUMP SYMTOM RECORD AREA
2112	(840)	CHARACTER	2	SR	'SR' SYMPTOM AREA ID
2112	(840)	X'E2D9'	0	SRECID	"C'SR'" 'SR' IDENTIFIER
2114	(842)	CHARACTER	40		RESERVED FOR FUTURE USE
2154	(86A)	CHARACTER	9	SRID	SYSTEM IDENTIFIER (DERIVED FROM FESN SYSTEM IDENTIFIER) OS/VS2(MVS) C'5752 '
2163	(873)	CHARACTER	5		RESERVED FOR FUTURE USE
2168	(878)	CHARACTER	8	SRDTYPE	TYPE OF DUMP, SUCH AS C'SVC DUMP'
2176	(880)	CHARACTER	8		RESERVED FOR FUTURE USE
2184	(888)	SIGNED	2	SRSLEN	LENGTH OF BASIC SYSTEM STRING IN SYSTEM DATA BASE (SDB) FORMAT FOR APARS
2186	(88A)	SIGNED	2	SRSOFF	OFFSET TO BASIC SYMPTOM STRING
2188	(88C)	SIGNED	2	SROLEN1	LENGTH OF OPTIONAL SYMPTOM STRING IN SDB FMT
2190	(88E)	SIGNED	2	SROFF1	OFFSET TO OPTIONAL SYMPTOM STRING IN SDB FORMAT
2192	(890)	SIGNED	2	SROLEN2	LENGTH OF OPTIONAL SYMP STRING 2, MAY OR MAY NOT BE IN SDB FORMAT. MAY BE CLUES THAT ARE NOT REPEATABLE, SO THEY MAY NOT BE USEFUL FOR DUPLICATE PROBLEM RECOGNITION
2194	(892)	SIGNED	2	SROFF2	OFFSET TO OPTIONAL SYMPTOM STRING 2
2196	(894)	SIGNED	2	SRLENCS	LENGTH OF COMPONENT SYMPTOM AREA. ZERO IF NOT SUPPLIED.
2198	(896)	SIGNED	2	SROFFCS	OFFSET TO COMPONENT SYMPTOM AREA. ZERO IF NOT IN SYMPTOM AREA. SRADDRCS CAN BE SUPPLIED IF THIS FIELD IS ZERO.
2200	(898)	SIGNED	4	SRADDRCS	VIRTUAL ADDRESS OF COMPONENT SYMPTOM AREA
2204	(89C)	CHARACTER	4	SRASID	SYSTEM DEPENDENT FIELD (ASID FOR MVS)
2208	(8A0)	CHARACTER	16		RESERVED FOR FUTURE USE
2224	(8B0)	SIGNED	4	SRHDEND(0)	END OF HEADER RECORD
2224	(8B0)	CHARACTER	112	SRBASIC(0)	BASIC SYMPTOM STRING
2224	(8B0)	CHARACTER	8	SRABD	ABEND CODE IN SDB FORMAT EX. AB/SC0D
2232	(8B8)	CHARACTER	16	SRRC	REASON CODE (IF EXISTS) EX. PRCS/1C08
2248	(8C8)	CHARACTER	16	SRCID	COMPONENT ID EX. PIDS/5752SC1C3
2264	(8D8)	CHARACTER	16	SRLM	LOAD MODULE NAME EX.RIDS/IECIOSAM#L
2280	(8E8)	CHARACTER	16	SRCSECT	CSECT NAME EX. RIDS/IECIOSCN

Table 45. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2296	(8F8)	CHARACTER	16	SRFRR	RECOVERY ROUTINE NAME EX.RIDS/IECIOFRR#R
2312	(908)	CHARACTER	24	SREGPSW	REGISTER/PSW DIFFERENCES EX. REGS/0C01B REGS/FFFFF
2336	(920)	SIGNED	4	SRBASEND(0)	END OF BASIC SYMPTOM STRING
2336	(920)	CHARACTER	1	SROPT1(0)	OPTIONAL STRING 1 STRING - SDB FMT
2336	(920)	SIGNED	4	SROP1END(0)	END OF OPTIONAL STRING 1
2336	(920)	CHARACTER	84	SROPT2(0)	OPTIONAL STRING 2 STRING 2 - NON-SDB
2336	(920)	CHARACTER	16	SRPGM	ABENDING PROGRAM NAME EX. PGM=IEFBR14
2352	(930)	CHARACTER	24	SRLVL	ASSEMBLY MODULE LEVEL EX. MODLVL=09/10/80UZ19271
2376	(948)	CHARACTER	28	SRSC	COMPONENT/SUBCOMPONENT/ SUBFUNCTION DESCRIPTION EX. SC=IOS-EXCP
2404	(964)	CHARACTER	16	SRRRL	RECOVERY ROUTINE LABEL EX. RRL=ESTAERTN
2420	(974)	SIGNED	4	SROP2END(0)	END OF OPTIONAL STRING 2

Table 46. Structure ADSSRCRS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ADSSRCRS	PRIMARY SYMPTOM STRING, RETAIN X FORMAT
0	(0)	CHARACTER	150	RETANPSS	RETAIN FORMAT PRIMARY SYMPTOM STRING. THIS MUST END WITH AT LEAST ONE BLANK.

Table 47. Structure ADSSRCSS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ADSSRCSS	SECONDARY SYMPTOM STRING
0	(0)	CHARACTER	1	RETANSSS(0)	RETAIN FORMAT SECONDARY SYMPTOM STRING. THIS MUST END WITH AT LEAST ONE BLANK.

Table 48. Structure ADSSRNSD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ADSSRNSD	OPTIONAL SYMPTOM DATA, NONRETAIN FORMAT
0	(0)	CHARACTER	291	ADSSDAE(0)	DUMP ANALYSIS AND ELIMINATION (DAE) SECTION
0	(0)	CHARACTER	2	DAESSHDR(0)	HEADER TO MVS FORMAT SYMPTOM STRING
0	(0)	CHARACTER	1	DAESSHT	DATA TYPE. 'F0'X FOR PRINTABLE
1	(1)	SIGNED	1	DAESSHL	DATA LENGTH EQUAL TO LENGTH(DAESSMVS)
2	(2)	CHARACTER	150	DAESSMVS	MVS FORMAT SYMPTOM STRING

Table 48. Structure ADSSRNSD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
152	(98)	CHARACTER	2	DAENSHDR(0)	HEADER TO NONSYMPTOM STRING DATA
152	(98)	CHARACTER	1	DAENSHT	DATA TYPE. 'FF'X FOR NONPRINTABLE
153	(99)	BITSTRING	1	DAENSHL	DATA LENGTH EQUAL TO LENGTH(DAEDATA)
154	(9A)	CHARACTER	137	DAEDATA(0)	NONSYMPTOM STRING DATA
154	(9A)	CHARACTER	4	DAELVL	DAE LEVEL WHICH CREATED THIS DATA. (ACRONYM AND VERSION NUMBER FROM ADYDFLM).
158	(9E)	CHARACTER	84	DAECRIT(0)	CRITERIA FOR SYMPTOM STRING TO BE CONSIDERED AS A UNIQUE IDENTIFIER BY DAE
158	(9E)	SIGNED	2	DAEMINC	MINIMUM NUMBER OF SYMPTOMS IN THE SYMPTOM STRING FOR IT TO BE CONSIDERED UNIQUE.
160	(A0)	SIGNED	2	DAEMINL	MINIMUM LENGTH OF THE SYMPTOM STRING TO BE CONSIDERED UNIQUE.
162	(A2)	CHARACTER	40	DAEREQ	KEYS REQUIRED FOR MATCHING
202	(CA)	CHARACTER	40	DAEOPT	KEYS WHICH ARE OPTIONAL
242	(F2)	CHARACTER	4	DAESSACT(0)	ACTUAL VALUES USED TO DETERMINE IF THE SYMPTOM STRING MAY BE CONSIDERED UNIQUE.
242	(F2)	SIGNED	2	DAESLN	ACTUAL NUMBER OF BYTES OF UNIQUE.
244	(F4)	SIGNED	2	DAESCNT	ACTUAL COUNT OF THE NUMBER OF SYMPTOM STRINGS TO BE CONSIDERED UNIQUE.
246	(F6)	CHARACTER	8	DAESTAT	ADYDSTAT
254	(FE)	CHARACTER	6		RESERVED FOR EXPANSION OF DAESTAT
260	(104)	CHARACTER	21	DAEORIG(0)	IDENTIFICATION OF THE ORIGINAL OCCURRENCE OF THIS PROBLEM
260	(104)	CHARACTER	10	DAEERID(0)	ERROR ID
260	(104)	SIGNED	2	DAEERSEQ	ERROR ID SEQUENCE NUMBER
262	(106)	SIGNED	2	DAEERCPU	ERROR ID CPU ID
264	(108)	SIGNED	2	DAEERAS	ERROR ID ADDRESS SPACE ID
266	(10A)	SIGNED	4	DAETIME	ORIGINAL TIME-(BINARY NUMBER TENTHS OF A SECOND SINCE MIDNIGHT.)
270	(10E)		4	DAEDATE	ORIGINAL DATE (PACKED DECIMAL JULIAN-00YYDDDF)
274	(112)	CHARACTER	6	DAECPUO	CPUID FROM STIDP INSTRUCTION
280	(118)	BITSTRING	1	DAEFLG	FLAGS
		1...		DAESVCD	"BIT0" AN SVC DUMP CREATED THE ORIGINAL DOCUMENTATION
		.1..		DAESYSMD	"BIT1" A SYSMDUMP CREATED THE ORIGINAL DOCUMENTATION
		..1.		DAETRUM	"BIT2" ORIGINAL MVS SYMPTOM STRING WAS TRUNCATED
		...1		DAERCDA	"BIT3" Entry was recorded because of RECORDALL
281	(119)	CHARACTER	10	DAECURR(0)	IDENTIFICATION OF THE CURRENT PROBLEM

Table 48. Structure ADSSRNSD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
281	(119)	SIGNED	4	DAEDTIM	TIME OF CURRENT PROBLEM (BINARY NUMBER, TENTHS OF A SECOND SINCE MIDNIGHT
285	(11D)		4	DAEDDAT	DATE OF CURRENT PROBLEM (PACKED DECIMAL JULIAN-00YYDDDF)
289	(121)	SIGNED	2	DAEDCNT	NUMBER OF OCCURRENCES
291	(123)	CHARACTER	8	DAESNAMO	SYSNAME - ORIGINAL
299	(12B)	CHARACTER	8	DAESNAML	SYSNAME - LAST OCCUR
	CONSTANT VALUES FOR VARIABLE DATA AREAS				
	1111	1111		ADSSTPNP	"X'FF'" DATA TYPE IS NOT PRINTABLE
	1111	....		ADSSTPPR	"X'F0'" DATA TYPE IS PRINTABLE
299	(12B)	X'F'	0	SRSYMML	"15" SYMPTOM MAXIMUM LENGTH

Table 49. Cross Reference for AMDDATA

Name	Offset	Hex Tag
ADSSDAE	0	
ADSSRCRS	0	
ADSSRCSS	0	
ADSSRNSD	0	
ADSSTPNP	12B	FF
ADSSTPPR	12B	F0
BIT0	0	80
BIT1	0	40
BIT2	0	20
BIT3	0	10
BIT4	0	8
BIT5	0	4
BIT6	0	2
BIT7	0	1
DAECPUO	112	
DAECRIT	9E	
DAECURR	119	
DAEDATA	9A	
DAEDATE	10E	
DAEDCNT	121	
DAEDDAT	11D	
DAEDTIM	119	
DAEERAS	108	
DAEERCPU	106	
DAEERID	104	
DAEERSEQ	104	
DAEFLG	118	
DAELVL	9A	
DAEMINC	9E	
DAEMINL	A0	
DAENSHDR	98	
DAENSHL	99	

Table 49. Cross Reference for AMDDATA (continued)

Name	Offset	Hex Tag
DAENSHT	98	
DAEOPT	CA	
DAEORIG	104	
DAERCDA	118	10
DAEREQ	A2	
DAESCNT	F4	
DAESLN	F2	
DAESNAML	12B	
DAESNAMO	123	
DAESSACT	F2	
DAESSHDR	0	
DAESSHL	1	
DAESSHT	0	
DAESSMVS	2	
DAESTAT	F6	
DAESVCD	118	80
DAESYSMD	118	40
DAETIME	10A	
DAETRUM	118	20
IATB	0	
IATBCR	50	
IATBCTR	A0	
IATBFRN	0	
IATBGPR	10	
IATBICN	98	
IATBPSW	8	
IATBPSW1	8	
IATBPSW2	C	
IATBTFM	96	
IATBTM1	0	
PRD	0	
PRDAAF	2A	40
PRDAAP	2C	
PRDADSS0	142	
PRDAR	110	
PRDAREGS	160	
PRDARSA	160	
PRDAS	4	
PRDASC	C	
PRDASH	6	0
PRDAST	4	
PRDASTE	2C	
PRDAS0	4	
PRDAS1	8	
PRDAS2	C	
PRDAS3	10	0
PRDAS9	14	
PRDBEA	10C	
PRDBFP	24	10

Table 49. Cross Reference for AMDDATA (continued)

Name	Offset	Hex Tag
PRDBFPH	24	4
PRDBFPV	24	8
PRDBLSDP	24	5
PRDCID	178	
PRDCLKCP	120	
PRDCML	3C	
PRDCOMM	2A	80
PRDCPU	50	
PRDCPURC	40	
PRDCPUST	68	
PRDCR	C8	
PRDCRSA	200	
PRDCSA	298	
PRDCTL	200	
PRDCVT	0	
PRDC64S	218	
PRDDATA	40	
PRDDIDCO	64	
PRDDSNAM	10	
PRDDSPB	BC	
PRDDSPE	C4	
PRDDUMPT	24	
PRDEPVT	29C	
PRDERRID	6	
PRDESAME	24	1
PRDFLAGS	24	
PRDFLG1	4	
PRDFLPT	1A0	
PRDFLPTX	2C0	
PRDFPCR	1D0	
PRDFPCTL	250	
PRDFPR	150	
PRDFPRSA	1A0	
PRDFPRSX	2C0	
PRDGPR	88	
PRDGPRSA	1C0	
PRDGPRVL	24	20
PRDGREGS	1C0	
PRDG64H	1D8	
PRDHASID	4C	
PRDHJOBN	2A0	
PRDHVCO	2B8	
PRDHVHP	2B0	
PRDHVSS	2A8	
PRDID	0	
PRDIDC	0	C4D9
PRDIDCV	0	C4D9
PRDIDV	2	F1
PRDIDV31	2	F1

Table 49. Cross Reference for AMDDATA (continued)

Name	Offset	Hex Tag
PRDIDV64	2	F2
PRDINPUT	0	
PRDINPUT	0	
PRDINPUT	0	
PRDINPUT	0	
PRDINPUT	0	
PRDINTKD	0	
PRDINTKN	0	
PRDINTKO	1AA	
PRDKEY	24	
PRDKEYA	24	F0
PRDKEYC	24	2
PRDKEYF	24	8
PRDKEYQ	24	FF
PRDKEYR	24	4
PRDKEYU	24	6
PRDLAD	14	
PRDLEN	3	
PRDLGPRF	4	20
PRDMDF	14C	
PRDME	4	80
PRDMESET	4	40
PRDMGPRF	4	10
PRDMODNM	40	
PRDOFSET	168	
PRDPASID	48	
PRDPCPU@	56	
PRDPMODL	54	
PRDPREF	0	
PRDPRODD	10A	
PRDPRODM	108	
PRDPRODN	F4	
PRDPRODR	106	
PRDPRODV	104	
PRDPSA	148	
PRDPSAAD	54	
PRDPSERL	51	
PRDPSW	108	
PRDPSW16	154	
PRDPSW2	140	
PRDPVRSN	50	
PRDREGS	68	
PRDSADDR	50	
PRDSADP	24	1
PRDSASID	4A	
PRDSDBLK	F0	
PRDSDFWD	164	
PRDSDMPL	16A	
PRDSDMPO	168	

Table 49. Cross Reference for AMDDATA (continued)

Name	Offset	Hex Tag
PRDSDOPL	5E	
PRDSDOPO	5C	
PRDSDOPS	0	
PRDSDPL	5A	
PRDSDPM	0	
PRDSDPO	58	
PRDSDRSN	E0	
PRDSDSM	0	
PRDSDWA	0	
PRDSDWAL	176	
PRDSDWAO	174	
PRDSEQ	18	0
PRDSHARE	2A	20
PRDSIGPF	24	40
PRDSIGPS	150	
PRDSIGP2	154	
PRDSIZ	0	40
PRDSLAR	50	
PRDSLBEA	8	
PRDSLC64	110	
PRDSLGPR	10	
PRDSLG6H	D0	
PRDSLIP	0	
PRDSLIPL	16E	
PRDSLIPO	16C	
PRDSLPC3	90	
PRDSLPC4	98	
PRDSLPDP	24	4
PRDSLPSW	0	
PRDSLP16	A0	
PRDSMABD	0	
PRDSMAR	6C	
PRDSMBEA	AC	
PRDSMC64	12C	
PRDSMDP	24	3
PRDSMGPR	28	
PRDSMG6H	EC	
PRDSMLMA	14	
PRDSMLMN	C	
PRDSMLMO	18	
PRDSMPDA	1C	
PRDSMPSW	4	
PRDSMPSW16	DC	
PRDSMRSN	68	
PRDSNAME	CC	
PRDSR	840	
PRDSSINV	24	80
PRDSTATS	40	
PRDSTOKN	30	

Table 49. Cross Reference for AMDDATA (continued)

Name	Offset	Hex Tag
PRDSTST	118	
PRDSTSTX	240	
PRDSTST1	118	
PRDSTST2	140	
PRDSTYP	2A	
PRDSVCDP	24	2
PRDSYSMD	0	
PRDSYSML	172	
PRDSYSMO	170	
PRDTCB	60	
PRDTIMER	118	
PRDTITLE	58	
PRDTODVL	48	
PRDTTCH	54	
PRDTTCH2	2C0	
PRDTYPD	24	0
PRDTYPS	2A	
PRDVGPRF	4	40
PRDWASID	4E	
PRDXADDR	114	
PRDXM	3C	
PRDXMPSW	40	
PRDXMP16	144	
PRDZARCH	24	1
PRDZ1V	24	2
PRD64	0	
PRD64AAF	2A	40
PRD64AAP	2C	
PRD64AS	4	
PRD64ASC	C	
PRD64ASH	6	0
PRD64AST	4	
PRD64AS0	4	
PRD64AS1	8	
PRD64AS2	C	
PRD64AS3	10	0
PRD64AS9	14	
PRD64BFP	24	10
PRD64BFPH	24	4
PRD64BFPV	24	8
PRD64BLSDP	24	5
PRD64COMM	2A	80
PRD64DUMPT	24	
PRD64ESAME	24	1
PRD64FLAGS	24	
PRD64GPRVL	24	20
PRD64ID	0	
PRD64IDC	0	C4D9
PRD64IDCV	0	C4D9

Table 49. Cross Reference for AMDDATA (continued)

Name	Offset	Hex Tag
PRD64IDV	2	F2
PRD64IDV31	2	F1
PRD64IDV64	2	F2
PRD64KEY	24	
PRD64KEYA	24	F0
PRD64KEYC	24	2
PRD64KEYF	24	8
PRD64KEYQ	24	FF
PRD64KEYR	24	4
PRD64KEYU	24	6
PRD64LAD	14	0
PRD64LEN	3	
PRD64MAXMSN	23	FF
PRD64MSN	22	
PRD64PHASE	23	
PRD64PHASESADMPA	23	1
PRD64PHASESADMPB	23	2
PRD64PHASESADMPC	23	3
PRD64PHASESADMPIN	23	7
PRD64PHASESADMPMINI	23	5
PRD64PHASESADMPMINO	23	9
PRD64PHASESADMPPAGED	23	B
PRD64PHASESADMPPFT	23	4
PRD64PHASESADMPRSRV	23	D
PRD64PHASESADMPSUMI	23	6
PRD64PHASESADMPSUMO	23	A
PRD64PHASESADMPSWAP	23	C
PRD64PHASESADMPUSED	23	8
PRD64PHASE0	23	0
PRD64SADP	24	1
PRD64SEQ	1C	0
PRD64SHARE	2A	20
PRD64SIGPF	24	40
PRD64SIZ	0	40
PRD64SLPDP	24	4
PRD64SMDP	24	3
PRD64SSINV	24	80
PRD64STYP	2A	
PRD64SVCDP	24	2
PRD64TYPD	24	0
PRD64TYPS	2A	
PRD64ZARCH	24	1
PRD64Z1V	24	2
PRD64999	40	
PRD999	40	
PRXARCID	350	
PRXAREGS	380	
PRXARSA	380	
PRXCLKCP	368	

Table 49. Cross Reference for AMDDATA (continued)

Name	Offset	Hex Tag
PRXCRSA	3C0	
PRXCTL	3C0	
PRXESAME	350	1
PRXFLAGS	210	
PRXFLPTR	240	
PRXFPCTL	35C	
PRXFPRSA	240	
PRXGPRSA	2C0	
PRXGREGS	2C0	
PRXPSA	358	
PRXPSW	340	
PRXPSWFROMLSCA	210	40
PRXRELPSW	200	
PRXRELPSWVALID	210	80
PRXSIGPS	354	
PRXSTATS	40	
PRXSTST	240	
PRXSTST1	240	
PRXSTST2	340	
PRXTIMER	360	
PRXZ1	440	
RETANPSS	0	
RETANSSS	0	
SR	840	
SRABD	8B0	
SRADDRCS	898	
SRASID	89C	
SRBASEND	920	
SRBASIC	8B0	
SRCID	8C8	
SRCSECT	8E8	
SRDTYPE	878	
SRECID	840	E2D9
SREGPSW	908	
SRFRR	8F8	
SRHDEND	8B0	
SRID	86A	
SRLENCS	894	
SRLM	8D8	
SRLVL	930	
SROFFCS	896	
SROFF1	88E	
SROFF2	892	
SROLEN1	88C	
SROLEN2	890	
SROPT1	920	
SROPT2	920	
SROP1END	920	
SROP2END	974	

Table 49. Cross Reference for AMDDATA (continued)

Name	Offset	Hex Tag
SRPGM	920	
SRRC	8B8	
SRRRL	964	
SRSC	948	
SRSLEN	888	
SRSOFF	88A	
SRSYMML	12B	F
ZZZASTA	4	C140
ZZZASTBL	4	C2D3
ZZZASTBS	4	C2E2
ZZZASTBT	4	C2E3
ZZZASTC	4	C340
ZZZASTCE	4	C3C5
ZZZASTCR	4	C3D9
ZZZASTCT	4	C3E3
ZZZASTCV	4	C3E5
ZZZASTDS	4	C4E2
ZZZASTH	4	C840
ZZZASTLI	4	D3C9
ZZZASTNO	4	4040
ZZZASTSB	4	E2C2
ZZZASTSC	4	E2C3
ZZZASTSD	4	E2C4
ZZZASTSS	4	E2E2
ZZZASTSV	4	E2E5

Chapter 12. AQAT Information

AQAT Heading Information

Common Name:	VSM Address Queue Anchor Table
Macro ID:	IGVAQAT
DSECT Name:	AQAT
Owning Component:	Virtual Storage Manager (SC1CH)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 255 Key: 0 Residency: Above 16M line
Size:	AQATITBL is 1024 bytes; AQAT is 772 bytes
Created by:	IGVGCAS, IEAIPL04, IGVAAQAT
Pointed to by:	LDAAQAT, LDAEAQAT, GDAAQAT5, GDAEAQT5, GDAAQAT6, GDAAQAT9, and GDAEAQT9
Serialization:	VSMFIX or LOCAL lock
Function:	Array of queue headers into the SQA and LSQA address queues for allocation of virtual storage.

AQAT mapping

Table 50. Structure AQATITBL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	4	AQATITBL(0:255)	AQAT INDEX TABLE
0	(0)	ADDRESS	4	AQATINDX	ADDRESS OF AQAT TABLE

Table 51. Structure AQAT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	772	AQAT	ADDRESS QUEUE ANCHOR TABLE
0	(0)	CHARACTER	4	AQATID	CONTROL BLOCK IDENTIFIER
4	(4)	CHARACTER	6	AQATNTRY(0:127)	BEGINNING OF QUEUE HEADER ENTRIES

Table 52. Structure AQATENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	6	AQATENT	ADDRESS QUEUE ANCHOR TABLE ENTRY
0	(0)	ADDRESS	4	AQATDFE	ADDRESS OF THE FIRST DFE WHOSE FREE SPACE ADDRESS IS WITHIN THE AQAT ENTRY BOUNDS
4	(4)	BITSTRING	2	AQATALOC	PAGE ALLOCATION BIT MAP

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AQAT mapping

Chapter 13. AQST Information

AQST Heading Information

Common Name:	Address Queue anchor table Stack
Macro ID:	IGVAQST
DSECT Name:	AQST
Owning Component:	Virtual Storage Manager (SC1CH)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 255 Key: 0 Residency: Above 16M line
Size:	208K bytes
Created by:	IEAIPL04, IGVGCAS, IGVAAQAT
Pointed to by:	LDAAQTAD, AQSTNEXT, AQSTPREV
Serialization:	Local lock (for private area)
Function:	Area in which AQATs are built.

AQST mapping

Table 53. Structure AQST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	AQST	Address Queue Anchor (AQAT) stack.
0	(0)	CHARACTER	16	AQSTHEAD	AQAT stack header information.
0	(0)	CHARACTER	4	AQSTID	AQAT stack ID.
4	(4)	ADDRESS	4	AQSTNEXT	Address of next AQAT stack on the AQAT Q-Stack.
8	(8)	ADDRESS	4	AQSTPREV	Address of previous AQAT stack on the AQAT Q-Stack.
12	(C)	UNSIGNED	4	AQSTSIZE	Size of the AQAT stack in bytes.
16	(10)	CHARACTER	*	AQSTACK	AQAT stack proper.

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AQST mapping

Chapter 14. ASASYMBP Information

ASASYMBP Programming Interface Information

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

- Symbt1JesSymbols

ASASYMBP Heading Information

Common Name:	ASASYMBM parameter area and symbol table
Macro ID:	ASASYMBP
DSECT Name:	SYMBP SYMBFP SYMBT SYMBT1 SYMBTE SYMBTH
Owning Component:	MVS Reuse (SCASA)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: Caller-supplied Key: Caller-supplied Residency: Caller-supplied
Size:	Variable SYMBP -- X'001C' bytes SYMBFP -- X'0020' bytes SYMBT -- X'0004' bytes + one SYMBTE for each symbol indicated by the SymbtNumberOfSymbols field. SYMBT1 -- X'0010' bytes + one SYMBTE for each symbol indicated by the SymbtNumberOfSymbols field. SYMBTE -- X'0010' bytes SYMBTH -- X'0008' bytes
Created by:	Caller and provided as input to ASASYMBM
Pointed to by:	Not applicable
Serialization:	None required

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ASASYMBP Heading Information

Function: Maps the data provided to ASASYMBM / ASASYMBF.
For ASASYMBM: A parameter area (SYMBP) is provided.
For ASASYMBF: A parameter area (SYMBFP) is provided.
You can build SYMBFP on all supported releases, but do not call or LINK to ASASYMBF unless running on z/OS V2R2 or later, or with a tasklib/steplib/joblib to the MIGLIB of a z/OS V2R2 or later system.
Optionally, the parameter area can point to a symbol table (SYMBT / SYMBT1) which consists of the SYMBT / SYMBT1 header plus SYMBTE entries (which immediately follow the header, or are pointed to by a field which immediately follows the header).
The system symbol table pointed to by ECVTSYMT is preceded by an area mapped by the SYMBTH DSECT.
Return information is provided in the fullword pointed to by field SymbpReturnCode@/SymbfpReturnCode@. Possible values are:
0
Meaning: Successful Completion. All requested substitution was performed.
Action: None required.
4
Meaning: Warning. When Substring was specified, a substring that exceeded the bounds of the substitution text, or a substring in which the length was specified as 0, was found.
Substitution continues.
Action: None required.
8
Meaning: Warning. Target buffer was too small to contain all of the substitution text.
Action: Specify a larger target buffer, or continue processing using the value returned in the fullword pointed to by field SymbpTargetLength@/SymbpfTargetLength@ to determine how much data was placed into the target buffer.
12
Meaning: Error. When CheckNull was specified, a substitution text length of 0 was encountered when performing substitution. Substitution continues.
Action: None required. The system informs the program of the situation in which it was interested. It is up to the program to determine the necessary course of action.
16
Meaning: Warning. When WarnNoSub was specified, the substitution process encountered no symbols for which to substitute.
The substitution processing completed normally.
Action: None required.

ASASYMBP mapping

Table 54. Structure SYMBP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SYMBP	

Table 54. Structure SYMBP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	ADDRESS	4	SYMBPPATTERN@	Address of input pattern containing symbols to be resolved
0	(0)	ADDRESS	4	SYMBPPATTERNADDR	Same as SymbpPattern@
4	(4)	SIGNED	4	SYMBPPATTERNLENGTH	Length of input pattern
8	(8)	ADDRESS	4	SYMBPTARGET@	Address of output target area. The target, for the length specified in the word pointed to by SymbpTargetLength@, is initialized to blanks before substitution processing begins.
8	(8)	ADDRESS	4	SYMBPTARGETADDR	Same as SymbpTarget@
12	(C)	ADDRESS	4	SYMBPTARGETLENGTH@	Address of input output fullword field containing length of target area. On input, it contains the length provided. On output, it contains the actual length of the target resulting from the symbolic substitution. If the target buffer did not have room for the substituted pattern, the maximum value returned is the input value, unless "ContinueAfterFull" is in effect, either via Symbt1ContinueAfterFull, Symbt1PreserveAlignment, Symbt1NoDoubleAmpersand, or Symbt1JesSymbols.
12	(C)	ADDRESS	4	SYMBPTARGETLENGTHADDR	Same as SymbpTargetLength
16	(10)	ADDRESS	4	SYMBPSYMBOLTABLE@	Address of symbol table mapped by SYMBT DSECT. If only the default set of symbols are wanted, and none of the functions indicated by the flags in SymbtFlags are needed, then this field should be 0.
16	(10)	ADDRESS	4	SYMBPSYMBOLTABLEADDR	Same as SymbpSymbolTable
20	(14)	ADDRESS	4	SYMBPTIMESTAMP@	Address of 8-character area containing the time stamp to use. If this field is hexadecimal zeroes, the system will obtain the current time stamp for use in evaluating symbolics related to time or date.
20	(14)	ADDRESS	4	SYMBPTIMESTAMPADDR	Same as SymbpTimeStamp@
24	(18)	SIGNED	4	SYMBPRETURNCODE@	Address of fullword which is to contain the return code
24	(18)	ADDRESS	4	SYMBPRETURNCODEADDR	Same as SymbpReturnCode
24	(18)	X'1C'	0	SYMBP_LEN	"*-SYMBP"

Table 55. Structure SYMBFP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SYMBFP	
0	(0)	ADDRESS	4	SYMBFPPATTERN@	Address of input pattern containing symbols to be resolved
0	(0)	ADDRESS	4	SYMBFPPATTERNADDR	Same as SymbfpPattern@
4	(4)	SIGNED	4	SYMBFPPATTERNLENGTH	Length of input pattern
8	(8)	ADDRESS	4	SYMBFPTARGET@	Address of output target area. The target, for the length specified in the word pointed to by SymbfpTargetLength@, is initialized to blanks before substitution processing begins.
8	(8)	ADDRESS	4	SYMBFPTARGETADDR	Same as SymbfpTarget@
12	(C)	ADDRESS	4	SYMBFPTARGETLENGTH@	Address of input output fullword field containing length of target area. On input, it contains the length provided. On output, it contains the actual length of the target resulting from the symbolic substitution.
12	(C)	ADDRESS	4	SYMBFPTARGETLENGTHADDR	Same as SymbfpTargetLength@
16	(10)	ADDRESS	4	SYMBFPSYMBOLTABLE@	Address of symbol table mapped by SYMBT DSECT. If only the default set of symbols are wanted, and none of the functions indicated by the flags in SymbtFlags are needed, then this field should be 0.
16	(10)	ADDRESS	4	SYMBFPSYMBOLTABLEADDR	Same as SymbfpSymbolTable
20	(14)	ADDRESS	4	SYMBFPTIMESTAMP@	Address of 8-character area containing the time stamp to use. If this field is hexadecimal zeroes, the system will obtain the current time stamp for use in evaluating symbolics related to time or date.
20	(14)	ADDRESS	4	SYMBFPTIMESTAMPADDR	Same as SymbfpTimeStamp
24	(18)	ADDRESS	4	SYMBFPRETURNCODE@	Address of fullword which is to contain the return code
24	(18)	ADDRESS	4	SYMBFPRETURNCODEADDR	Same as SymbfpReturnCode
28	(1C)	ADDRESS	4	SYMBFPWORKAREAADDR	Address of 1024-byte work area on a doubleword boundary
28	(1C)	X'20'	0	SYMBFP_LEN	"*-SYMBFP"

Table 56. Structure SYMBT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SYMBT	Symbol table
0	(0)	CHARACTER	4	SYMBTHEADER	
0	(0)	BITSTRING	2	SYMBTFLAGS	
0	(0)	BITSTRING	1	SYMBTFLAG0	Byte 0 of SymbtFlags
Bit definitions:					

Table 56. Structure SYMBT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		SYMBTNODEFAULTSYMBOLS	"X'80'" Avoid using the default symbol set
		.1..		SYMBTONLYSTATICSYMBOLS	"X'40'" Allow only static symbols
		..1.		SYMBTTIMESTAMPISGMT	"X'20'" The input timestamp is GMT-time, not Local. Note that the value from STCK or STCKSYNC is not GMT. It needs to be corrected by subtracting CVTLSO. This bit need not be set as it is the default. Do not also specify SymbtTimeStampIsLocal or SymbtTimeStampIsStck.
		...1		SYMBTTIMESTAMPISLOCAL	"X'10'" The input timestamp is Local-Time, not GMT. Do not also specify SymbtTimeStampIsGMT or SymbtTimeStampIsStck.
		.... 1...		SYMBTWARNSUBSTRINGS	"X'08'" When a substring problem is encountered, produce a warning return code. The substring is fixed irregardless.
		.... .1..		SYMBTCHECKNULLSUBTEXT	"X'04'" The presence of null sub-text will be flagged via non-zero return code.
		.... ..1.		SYMBTPTRSAREOFFSETS	"X'02'" The pointer fields within the user-provided symbol area are offsets. The processing code will add the offset and the symbol area address to get the actual address of the operand. Note that this does not apply to field SymbteSymbolAreaAddr - it is always a pointer. Note also that when bit SymbtIndrectSymbolArea is on, the symbol area address is the address contained in SymbteSymbolAreaAddr. When bit SymbtIndirectSymbolArea is off, the symbol area address is the address of SymbtTableEntries.
		1		SYMBTONLYDYNAMICSYMBOLS	"X'01'" Allow only dynamic symbols. This should be used only when passing in as a user symbol table the static symbol table of another system.
1	(1)	BITSTRING	1	SYMBTFLAG1	Byte 1 of SymbtFlags
Bit definitions:					
		1...		SYMBTFLAG1RSV1	"X'80'" Reserved. Must be zero. Do not use.
		.1..		SYMBTTIMESTAMPISSTCK	"X'40'" The input timestamp is from the STCK instruction or the STCKSYNC service. Do not also specify SymbtTimeStampIsGMT or SymbtTimeStampIsLocal.

Table 56. Structure SYMBT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		SYMBTWARNNOSUB	"X'20'" When no substitution at all has occurred, produce a warning return code.
		...1		SYMBTINDIRECTSYMBOLAREA	"X'10'" Indicates that the symbol area is not contiguous but rather is pointed to by SymbteSymbolAreaAddr.
		.... 1...		SYMBTMIXEDCASESYMBOLS	"X'08'" Indicates that the input may have non-uppercase symbols. The processing will obtain an additional area to copy the input pattern in order to make recognition of these symbols possible.
		.... .11.		SYMBTFLAG1RSV2	"X'06'" Unused. Must be zero.
		1		SYMBTSYMBT1	"X'01'" When this bit is off, the SYMBT DSECT applies to the fields that follow. Otherwise, the SYMBT1 DSECT applies. See Symbt1Symbt1 for more information.
2	(2)	SIGNED	2	SYMBTNUMBEROFSYMBOLS	Number of entries in symbol table. Can be 0.
4	(4)	CHARACTER	1	SYMBTTABLEENTRIES(0)	Symbol table entries. One for each indicated by the NumberOfSymbols field. Mapped by SYMBTE DSECT. Note that when SymbtIndirectSymbolArea is specified, this area consists only of field SymbteSymbolAreaAddr. In that case, it is the area pointed to by that pointer that is mapped by SYMBTE DSECT.
The static symbol table is pointed to by ECVTSYMT and is mapped by the SYMBT DSECT. In the 4-bytes preceding this table is a fullword which specifies the length of the contiguous area that follows which contains the table plus the symbol names plus the substitution text values.					
4	(4)	X'10'	0	SYMBTMAXSTATICSYMBOLLENGTHZOSV2R2	"16" The max length of a static symbol, not counting the "&" and the "."
4	(4)	X'8'	0	SYMBTMAXSTATICSYMBOLLENGTH	"8" The max length of a static symbol, not counting the "&" and the "."
4	(4)	X'67'	0	SYMBTMAXSTATICENTRIESPREZOSR4	"103" The max number of full-sized entries. This provides for the 5 z/OS-defined symbols plus 98 user-provided symbols
4	(4)	X'65F'	0	SYMBTMAXSTATICENTRIESZOSV2R2_8	

Table 56. Structure SYMBT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"1631" The max number of 8-byte-name 9-byte value entries. This provides for the 6 z/OS-defined symbols plus 1625 user-provided symbols
4	(4)	X'45F'	0	SYMBTMAXSTATICENTRIESZOSV2R2_16	"1119" The max number of 16-byte-name 17-byte value entries. This provides for the 6 z/OS-defined symbols plus 1113 user-provided symbols
4	(4)	X'2DB'	0	SYMBTMAXSTATICENTRIESZOSV2R2_44	"731" The max number of 16-byte-name 44-byte value entries. This provides for the 6 z/OS-defined symbols plus 725 user-provided symbols
4	(4)	X'3A0'	0	SYMBTMAXSTATICENTRIESZOSR4	"928" The max number of full-sized entries. This provides for the 6 z/OS-defined symbols plus 922 user-provided symbols
4	(4)	X'3E'	0	SYMBTMAXSTATICENTRYDATALENGTHZOSV2R2	"62" Name with "&" and "."
4	(4)	X'3A0'	0	SYMBTMAXSTATICENTRIES	"928" The max number of pre-z/OS2.2 full-sized entries. This provides for the 6 z/OS-defined symbols plus 922 user-provided symbols
4	(4)	X'11'	0	SYMBTMAXSTATICSUBTEXTLENGTHZOSV2R2	"17" The max length of substitution text for a "normal" static symbol (does not end with underscore)
4	(4)	X'2C'	0	SYMBTMAXSTATICLONGSUBTEXTLENGTHZOSV2R2	"44" The max length of substitution text for a static symbol that ends with an underscore and thus can have long substitution text
4	(4)	X'9'	0	SYMBTMAXSTATICSUBTEXTLENGTH	"9" The max length of substitution text for a static symbol
4	(4)	X'E19'	0	SYMBTMAXSTATICTABLESIZEPREZOSR4	"3609" Name with "&" and "." The max table size, taking into account that each symbol is preceded by "&" and followed by "."
4	(4)	X'DF00'	0	SYMBTMAXSTATICTABLESIZEZOSV2R2	"57088" The max table size, taking into account that each symbol is preceded by "&" and followed by "."

Table 56. Structure SYMBT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'7F00'	0	SYMBTMAXSTATICTABLESIZEPREZOSV2R2	"32512" The max table size, taking into account that each symbol is preceded by "&" and followed by "."
4	(4)	X'7F00'	0	SYMBTMAXSTATICTABLESIZEZOSR4	"32512" The max table size, taking into account that each symbol is preceded by "&" and followed by "."
4	(4)	X'7F00'	0	SYMBTMAXSTATICTABLESIZE	"32512"
4	(4)	X'4'	0	SYMBT_LEN	"*-SYMBT" The max table size prior to z/OS V2R2 taking into account that each symbol is preceded by "&" and followed by "."

Table 57. Structure SYMBT1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SYMBT1	Symbol table, format 1
0	(0)	CHARACTER	16	SYMBT1HEADER	
0	(0)	BITSTRING	2	SYMBT1FLAGS	
0	(0)	BITSTRING	1	SYMBT1FLAG0	Byte 0 of Symbt1Flags
Bit definitions:					
		1...		SYMBT1NODEFAULTSYMBOLS	"X'80'" Avoid using the default symbol set. If there are multiple user-provided symbol tables, this is honored for the first SYMBT1 only.
		.1..		SYMBT1ONLYSTATICSYMBOLS	"X'40'" Allow only static symbols. If there are multiple user-provided symbol tables, this is honored for the first SYMBT1 only.
		..1.		SYMBT1TIMESTAMPISGMT	"X'20'" The input timestamp is GMT-time, not Local. Note that the value from STCK or STCKSYNC is not GMT. It needs to be corrected by subtracting CVTLSO. This bit need not be set as it is the default. Do not also specify Symbt1TimeStampIsLocal or Symbt1TimeStampIsStck. If there are multiple user-provided symbol tables, this is honored for the first SYMBT1 only.

Table 57. Structure SYMBT1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		SYMBT1TIMESTAMPISLOCAL	"X'10'" The input timestamp is Local-Time, not GMT. Do not also specify Symbt1TimeStampIsGMT or Symbt1TimeStampIsStck. If there are multiple user-provided symbol tables, this is honored for the first SYMBT1 only.
		.... 1...		SYMBT1WARNSUBSTRINGS	"X'08'" When a substring problem is encountered, produce a warning return code. The substring is fixed irregardless. If there are multiple user-provided symbol tables, this is honored for the first SYMBT1 only.
		.... .1..		SYMBT1CHECKNULLSUBTEXT	"X'04'" The presence of null sub-text will be flagged via non-zero return code. If there are multiple user-provided symbol tables, this is honored for the first SYMBT1 only.
		.... ..1.		SYMBT1PTRSAREOFFSETS	"X'02'" The pointer fields within the user-provided symbol area are offsets. The processing code will add the offset and the symbol area address to get the actual address of the operand. Note that this does not apply to field Symbt1eSymbolAreaAddr - it is always a pointer. Note also that when bit Symbt1IndrectSymbolArea is on, the symbol area address is the address contained in Symbt1eSymbolAreaAddr. When bit Symbt1IndirectSymbolArea is off, the symbol area address is the address of Symbt1TableEntries.
		1		SYMBT1ONLYDYNAMICSYMBOLS	"X'01'" Allow only dynamic symbols. This should be used only when passing in as a user symbol table the static symbol table of another system. If there are multiple user-provided symbol tables, this is honored for the first SYMBT1 only.
1	(1)	BITSTRING	1	SYMBT1FLAG1	Byte 1 of Symbt1Flags
Bit definitions:					
		1...		SYMBT1FLAG1RSV1	"X'80'" Reserved. Must be zero. Do not use.

Table 57. Structure SYMBT1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		SYMBT1TIMESTAMPISSTCK	"X'40'" The input timestamp is from the STCK instruction or the STCKSYNC service. Do not also specify Symbt1TimeStampIsGMT or Symbt1TimeStampIsLocal. If there are multiple user-provided symbol tables, this is honored for the first SYMBT1 only.
		..1.		SYMBT1WARNNOSUB	"X'20'" When no substitution at all has occurred, produce a warning return code. If there are multiple user-provided symbol tables, this is honored for the first SYMBT1 only.
		...1		SYMBT1INDIRECTSYMBOLAREA	"X'10'" Indicates that the symbol area is not contiguous but rather is pointed to by Symbt1eSymbolAreaAddr.
		.... 1...		SYMBT1MIXEDCASESYMBOLS	"X'08'" Indicates that the input may have non-uppercase symbols. The processing will obtain an additional area to copy the input pattern in order to make recognition of these symbols possible. If there are multiple user-provided symbol tables, this is honored for the first SYMBT1 only.
		.... .11.		SYMBT1FLAG1RSV2	"X'06'" Unused. Must be zero.
		1		SYMBT1SYMBT1	"X'01'" When this bit is on, the SYMBT1 DSECT applies to the fields that follow. Otherwise, the SYMBT DSECT applies. When this bit is on several things are implied. All caller-provided symbols (in all symbol areas identified on this call) are assumed to start with an "&" and end with a ".", use the same character set defined for system symbols, and be no longer than 18 characters (including the leading "&" and trailing "."). When Symbt1IEFSJSYM is on, the "&" and "." are not physically present in the data. Two symbols are not both allowed in a symbol table if the beginning of the longer one is the shorter one followed by an underscore, and the shorter one has no underscore. This does not apply to JES symbols. Symbol matching will use the upper-case of the input string.
2	(2)	BITSTRING	1	SYMBT1FLAG2	

Table 57. Structure SYMBT1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Bit definitions:					
		1...		SYMBT1PRESERVEALIGNMENT	"X'80'" Indicates that an attempt is to be made to preserve alignment following a symbol of items separated from the symbol by 1 or more blanks. This is not possible to achieve in all cases, specifically some situations when the symbol value is longer than the symbol name plus one. This follows the rules by which JES processes instream data sets. If the symbol value is shorter than the name, blanks will be added to pad the value to match If the symbol value is longer than the name, blanks latter will be removed (never removing the last blank between two tokens) so that the token following will, when possible, remain in the same position. If there are multiple user-provided symbol tables, the value for this option is captured from the first SYMBT1. The value is then used for all the symbol tables.
		.1..		SYMBT1NODOUBLEAMPERSAND	"X'40'" Indicates that &&symbol in the pattern is not to be changed - the target is to contain &&symbol. This differs from the default processing which changes &&symbol in the pattern to &symbol in the target. If there are multiple user-provided symbol tables, the value for this option is captured from the first SYMBT1. The value is then used for all the symbol tables.
		..1.		SYMBT1IEFSJSYM	"X'20'" The symbol table area is an area returned by the IEFSJSYM service, the beginning of which is mapped by DSECT SYDHDR in macro IEFSJSYD. When bit Symbt1IndirectSymbolArea is off this is the area located at Symbt1TableEntries, otherwise it is the area located by SymbteSymbolAreaAddr. The number of entries is identified by the SYDEntryCount field.

Table 57. Structure SYMBT1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		SYMBT1CONTINUEAFTERFULL	"X'10'" If the target buffer does not have room for the substituted pattern (this could occur when a symbol value is longer than the symbol name), continue processing in order that the truly needed buffer length can be determined.
3	(3)	BITSTRING	1	SYMBT1FLAG3	
Bit definitions:					
		1		SYMBT1JESSYMBOLS	"X'01'" This bit is intended for IBM use only. When on, the caller must hold the LOCAL lock (this, in turn, implies that LINK must not be used). If there are multiple user-provided symbol tables, the value for this option is captured from the first SYMBT1. The value is then used for all the symbol tables.
4	(4)	ADDRESS	4	SYMBT1NEXTSYMBTADDR	Address of next SYMBT1 or SYMBT so that the user can provide multiple symbol tables. A value of 0 indicates that this is the last SYMBT1.
8	(8)	CHARACTER	6		Reserved, must be 0
14	(E)	SIGNED	2	SYMBT1NUMBEROFSYMBOLS	Number of entries in symbol table. Can be 0. Ignored when Symbt1IEFSJSYM
16	(10)	CHARACTER	1	SYMBT1TABLEENTRIES(0)	Symbol table entries. One for each indicated by the NumberOfSymbols field. Mapped by SYMBTE DSECT. Note that when Symbt1IndirectSymbolArea is specified, this area consists only of field SymbteSymbolAreaAddr. In that case, it is the area located by that address that is mapped by SYMBTE DSECT. When bit Symbt1IEFSJSYM is on, the area is mapped by SYDHDR DSECT in IEFSJSYD rather than SYMBTE.
16	(10)	X'10'	0	SYMBT1_LEN	"*-SYMBT1"

Table 58. Structure SYMBTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SYMBTE	Symbol table entry
0	(0)	CHARACTER	16	SYMBTETABLEENTRIES	Symbol table entry. One such entry for each indicated by the SymbtNumberOfSymbols / Symbt1NumberOfSymbols field.

Table 58. Structure SYMBTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	ADDRESS	4	SYMBTESYMBOLPTR	Address of symbol. Do not use when bit SymbtPtrsAreOffsets is on. Note that the symbol must include the preceding "&" and the trailing "."
0	(0)	SIGNED	4	SYMBTESYMBOLOFFSET	Offset to symbol from start of symbol area. Only use if bit SymbtPtrsAreOffsets / Symbt1PtsAreOffsets is on. Note that the symbol must include the preceding "&" and the trailing "."
0	(0)	ADDRESS	4	SYMBTESYMBOLAREAADDR	Address of symbol area when SymbtIndirectSymbolArea / Symbt1IndirectSymbolArea is set. In that case, this is the only word needed in the SYMBTE area. When bit Symbt1IEFSJSYM is off, the area located by this pointer is mapped by the "regular" SYMBTE DSECT (for which SymbteSymbolAreaAddr is not relevant). When bit Symbt1IEFSJSYM is on, the area located by this address was returned by the IEFSJSYM service and the beginning of the area is mapped by the SYDHDR DSECT in macro IEFSJSYD.
4	(4)	SIGNED	4	SYMBTESYMBOLLENGTH	Length of symbol (includes preceding "&" and trailing ".")
8	(8)	ADDRESS	4	SYMBTESUBTEXTPTR	Address of substitution text. Do not use when bit SymbtPtrsAreOffsets / Symbt1PtrsAreOffsets is on.
8	(8)	SIGNED	4	SYMBTESUBTEXTOFFSET	Offset to substitution text from start of symbol area. Only use if bit SymbtPtrsAreOffsets / Symbt1PtrsAreOffsets is on.
12	(C)	SIGNED	4	SYMBTESUBTEXTLENGTH	Length of substitution text
12	(C)	X'10'	0	SYMBTE_LEN	"*-SYMBTE"

ASASYMBP mapping

Table 59. Structure SYMBTH

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SYMBTH	Symbol table Header. This applies to the symbol table pointed to by ECVTSYMT only. Its address should be calculated by subtracting SYMBTH_LEN from the address in ECVTSYMT. Any new fields in the future would be at the beginning (not the end) of the header. Use both the equate SYMBTH_LEN and the field SymbthSymbolTableLen to pick up the length of the symbol table. This approach makes sure that your code will continue to work upon re-assembly.
0	(0)	CHARACTER	4	SYMBTHNOTINTERFACE	
4	(4)	SIGNED	4	SYMBTHSYMBOLTABLELEN	The length of the symbol table (not including the length of this header). This will always be the last field of the header.
4	(4)	X'8'	0	SYMBTH_LEN	"*-SYMBTH"

Table 60. Cross Reference for ASASYMBP

Name	Offset	Hex Tag
SYMBFP	0	
SYMBFP_LEN	1C	20
SYMBFPPATTERN@	0	
SYMBFPPATTERNADDR	0	
SYMBFPPATTERNLENGTH	4	
SYMBFPRETURNCODE@	18	
SYMBFPRETURNCODEADDR	18	
SYMBFPSYMBOLTABLE@	10	
SYMBFPSYMBOLTABLEADDR	10	
SYMBFPTARGET@	8	
SYMBFPTARGETADDR	8	
SYMBFPTARGETLENGTH@	C	
SYMBFPTARGETLENGTHADDR	C	
SYMBFPTIMESTAMP@	14	
SYMBFPTIMESTAMPADDR	14	
SYMBFPWORKAREAADDR	1C	
SYMBP	0	
SYMBP_LEN	18	1C
SYMBPPATTERN@	0	
SYMBPPATTERNADDR	0	
SYMBPPATTERNLENGTH	4	
SYMBPRETURNCODE@	18	
SYMBPRETURNCODEADDR	18	
SYMBPSYMBOLTABLE@	10	
SYMBPSYMBOLTABLEADDR	10	
SYMBPTARGET@	8	

Table 60. Cross Reference for ASASYMBP (continued)

Name	Offset	Hex Tag
SYMBPTARGETADDR	8	
SYMBPTARGETLENGTH@	C	
SYMBPTARGETLENGTHADDR	C	
SYMBPTIMESTAMP@	14	
SYMBPTIMESTAMPADDR	14	
SYMBT	0	
SYMBT_LEN	4	4
SYMBTCHECKNULLSUBTEXT	0	4
SYMBTE	0	
SYMBTE_LEN	C	10
SYMBTESUBTEXTLENGTH	C	
SYMBTESUBTEXTOFFSET	8	
SYMBTESUBTEXTPTR	8	
SYMBTESYMBOLAREAADDR	0	
SYMBTESYMBOLLENGTH	4	
SYMBTESYMBOLOFFSET	0	
SYMBTESYMBOLPTR	0	
SYMBTETABLEENTRIES	0	
SYMBTFLAGS	0	
SYMBTFLAG0	0	
SYMBTFLAG1	1	
SYMBTFLAG1RSV1	1	80
SYMBTFLAG1RSV2	1	6
SYMBTH	0	
SYMBTH_LEN	4	8
SYMBTHEADER	0	
SYMBTHNOTINTERFACE	0	
SYMBTHSYMBOLTABLELEN	4	
SYMBTINDIRECTSYMBOLAREA	1	10
SYMBTMAXSTATICENTRIES	4	3A0
SYMBTMAXSTATICENTRIESPREZOSR4	4	67
SYMBTMAXSTATICENTRIESZOSR4	4	3A0
SYMBTMAXSTATICENTRIESZOSV2R2_16	4	45F
SYMBTMAXSTATICENTRIESZOSV2R2_44	4	2DB
SYMBTMAXSTATICENTRIESZOSV2R2_8	4	65F
SYMBTMAXSTATICENTRYDATALENGTHZOSV2R2	4	3E
SYMBTMAXSTATICLONGSUBTEXTLENGTHZOSV2R2	4	2C
SYMBTMAXSTATICSUBTEXTLENGTH	4	9
SYMBTMAXSTATICSUBTEXTLENGTHZOSV2R2	4	11
SYMBTMAXSTATICSYMBOLLENGTH	4	8
SYMBTMAXSTATICSYMBOLLENGTHZOSV2R2	4	10
SYMBTMAXSTATICTABLESIZE	4	7F00
SYMBTMAXSTATICTABLESIZEPREZOSR4	4	E19
SYMBTMAXSTATICTABLESIZEPREZOSV2R2	4	7F00
SYMBTMAXSTATICTABLESIZEZOSR4	4	7F00
SYMBTMAXSTATICTABLESIZEZOSV2R2	4	DF00
SYMBTMIXEDCASESYMBOLS	1	8
SYMBTNODEFAULTSYMBOLS	0	80
SYMBTNUMBEROFSYMBOLS	2	

Table 60. Cross Reference for ASASYMBP (continued)

Name	Offset	Hex Tag
SYMBTONLYDYNAMICSYMBOLS	0	1
SYMBTONLYSTATICSYMBOLS	0	40
SYMBTPTRSAREOFFSETS	0	2
SYMBTSYMBT1	1	1
SYMBTTABLEENTRIES	4	
SYMBTTIMESTAMPISGMT	0	20
SYMBTTIMESTAMPISLOCAL	0	10
SYMBTTIMESTAMPISSTCK	1	40
SYMBTWARNNOSUB	1	20
SYMBTWARNSUBSTRINGS	0	8
SYMBT1	0	
SYMBT1_LEN	10	10
SYMBT1CHECKNULLSUBTEXT	0	4
SYMBT1CONTINUEAFTERFULL	2	10
SYMBT1FLAGS	0	
SYMBT1FLAG0	0	
SYMBT1FLAG1	1	
SYMBT1FLAG1RSV1	1	80
SYMBT1FLAG1RSV2	1	6
SYMBT1FLAG2	2	
SYMBT1FLAG3	3	
SYMBT1HEADER	0	
SYMBT1IEFSJSYM	2	20
SYMBT1INDIRECTSYMBOLAREA	1	10
SYMBT1JESSYMBOLS	3	1
SYMBT1MIXEDCASESYMBOLS	1	8
SYMBT1NEXTSYMBTADDR	4	
SYMBT1NODEFAULTSYMBOLS	0	80
SYMBT1NODOUBLEAMPERSAND	2	40
SYMBT1NUMBEROFSYMBOLS	E	
SYMBT1ONLYDYNAMICSYMBOLS	0	1
SYMBT1ONLYSTATICSYMBOLS	0	40
SYMBT1PRESERVEALIGNMENT	2	80
SYMBT1PTRSAREOFFSETS	0	2
SYMBT1SYMBT1	1	1
SYMBT1TABLEENTRIES	10	
SYMBT1TIMESTAMPISGMT	0	20
SYMBT1TIMESTAMPISLOCAL	0	10
SYMBT1TIMESTAMPISSTCK	1	40
SYMBT1WARNNOSUB	1	20
SYMBT1WARNSUBSTRINGS	0	8

Chapter 15. ASBEXSCH Information

ASBEXSCH Programming Interface Information

ASBEXSCH is a programming interface.

ASBEXSCH Heading Information

Common Name:	APPC Extract Scheduler Information Control Block Mapping
Macro ID:	ASBEXSCH
DSECT Name:	ASBEXSCH
Owning Component:	APPC Component (SCACB)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: Determined by caller Key: Determined by caller Residency: Determined by caller
Size:	Up to 204 bytes (=length of the type0 mapping)
Created by:	Any caller of ATBEXAI running under APPC scheduler
Pointed to by:	Local pointer
Serialization:	None
Function:	The ASBEXSCH is used to map the information returned in the buffer area passed to ATBEXAI when: o ATBEXAI is called with an Extract_Code requesting that scheduler information should be returned, and o The associated scheduler is the APPC scheduler. This buffer area is filled-in by the APPC Scheduler Extract Exit. Various possible mapping formats of the ASBEXSCH are defined by the 'Extract_code' passed to the APPC Scheduler Extract Exit. Shown below is the mapping to use with each of the currently supported Extract_code values. o '1000'X: Asbexsch_type0 - the type0 mapping o '1001'X: Asbexsch_type1 - the type1 mapping

ASBEXSCH mapping

Table 61. Structure ASBEXSCH

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ASBEXSCH	Extract Scheduler Information Control Block
0	(0)	DBL WORD	8	(0)	Align on doubleword boundary
The following structure maps the information returned by the APPC Information Extract Exit when an Extract_code of '1000'X is specified. This is referred to as the type0 mapping.					
0	(0)	DBL WORD	8	ASBEXSCH_TYPE0(0)	Extract Scheduler Information Control Block mapping for an Extract_code of '1000'X
0	(0)	CHARACTER	8	EXSCH_SCHNAME	Scheduler name
8	(8)	SIGNED	4	EXSCH_TPNAME_LEN	Length of Transaction Program Name
12	(C)	CHARACTER	64	EXSCH_TPNAME	Transaction Program Name
76	(4C)	CHARACTER	8	EXSCH_LOCAL_LUNAME	LU name

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Table 61. Structure ASBEXSCH (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
84	(54)	CHARACTER	17	EXSCH_PARTNER_LUNAME	Partner LU name in the form node.luname
101	(65)	CHARACTER	3		Reserved
104	(68)	CHARACTER	8	EXSCH_FMH5_PROF	FMH5 profile name
112	(70)	CHARACTER	8	EXSCH_APPCCLASS	Transaction Initiator Class (i.e. class in which TP runs)
120	(78)	SIGNED	4	EXSCH_TPTYPE	TP Schedule type: 0 = STANDARD, 1 = MULTI-TRANS
124	(7C)	CHARACTER	80	EXSCH_TOD_INFO(0)	Various date and time of day information in the form: 1) Date (0CYYDDDF - Packed, where C is the century with 0 = 1900 - 1999, 1 = 2000 - 2099) 2) Time (HHMMSSth miju0000 - packed, where HH = hours, MM = minutes, SS = seconds, t = tenths-of-sec, h = hundreths-of-sec,m=millisecs, i = ten-thousandths-sec, j = hundred-thousandths-sec, and u = microseconds.) 3) Time (0mmmmmm) in milliseconds from the beginning of the day, where 00000001 = 1 millisecond.
124	(7C)	CHARACTER	20	EXSCH_FMH5_TIME(0)	Date and Time TP was first recognized by FMH5
124	(7C)	CHARACTER	4	EXSCH_FMH5_PDATE	Date recognized by FMH5
128	(80)	CHARACTER	8	EXSCH_FMH5_PTIME	Time recognized by FMH5 in the form HHMMSSTH miju0000 - packed
136	(88)	SIGNED	4	EXSCH_FMH5_MTIME	Time recognized by FMH5 expressed in millisec from the beginning of the day
140	(8C)	CHARACTER	4		Reserved
144	(90)	CHARACTER	20	EXSCH_ON_Q_TIME(0)	Date and Time TP was placed on the scheduler work queue
144	(90)	CHARACTER	4	EXSCH_ON_Q_PDATE	Date placed on queue
148	(94)	CHARACTER	8	EXSCH_ON_Q_PTIME	Time placed on queue in the form HHMMSSTH miju0000 - packed
156	(9C)	SIGNED	4	EXSCH_ON_Q_MTIME	Time placed on queue expressed in millisec from beginning of day
160	(A0)	CHARACTER	4		Reserved
164	(A4)	CHARACTER	20	EXSCH_START_TIME(0)	Date and Time TP started execution
164	(A4)	CHARACTER	4	EXSCH_START_PDATE	Date TP started execution
168	(A8)	CHARACTER	8	EXSCH_START_PTIME	Time TP started execution in the form HHMMSSTH miju0000 - packed
176	(B0)	SIGNED	4	EXSCH_START_MTIME	Start time expressed in millisec from beginning of day
180	(B4)	CHARACTER	4		Reserved
184	(B8)	CHARACTER	20	EXSCH_CALL_TIME(0)	Date and Time of this call to Extract Service for information. (Represents current date/time this information was obtained.)
184	(B8)	CHARACTER	4	EXSCH_CALL_PDATE	Date of call ...

Table 61. Structure ASBEXSCH (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
188	(BC)	CHARACTER	8	EXSCH_CALL_PTIME	Time of call in the form HHMMSSTH miju0000 - packed
196	(C4)	SIGNED	4	EXSCH_CALL_MTIME	Call time expressed in millisec from beginning of day
200	(C8)	CHARACTER	4		Reserved
200	(C8)	X'CC'	0	ASBEXSCH_LEN0	"*-ASBEXSCH_TYPE0" Length of the type0 ASBEXSCH control block mapping
200	(C8)	X'CC'	0	ASBEXSCH_LEN	"ASBEXSCH_LEN0" Length of the type0 ASBEXSCH control block mapping. This is a synonym of ASBEXSXH_LEN0
The following structure maps the information returned by the APPC Information Extract Exit when an Extract_code of '1001'X is specified. This is referred to as the type1 mapping.					
0	(0)	DBL WORD	8	ASBEXSCH_TYPE1(0)	Extract Scheduler Information Control Block mapping for an Extract_code of '1001'X
0	(0)	CHARACTER	8	EXSCH_SCHNAME1	Scheduler name
8	(8)	SIGNED	4	EXSCH_TPTYPE1	TP Schedule type: 0 = STANDARD, 1 = MULTI-TRANS
8	(8)	X'C'	0	ASBEXSCH_LEN1	"*-ASBEXSCH_TYPE1" Length of the type1 ASBEXSCH control block mapping
Other Constants Declarations					
8	(8)	X'0'	0	APPC_STANDARD_TPTYPE	"0" Constant used to identify the APPC TP_schedule_type of STANDARD
8	(8)	X'1'	0	APPC_MULTITRANS_TPTYPE	"1" Constant used to identify the APPC TP_schedule_type of MULTI_TRANS

Table 62. Cross Reference for ASBEXSCH

Name	Offset	Hex Tag
APPC_MULTITRANS_TPTYPE	8	1
APPC_STANDARD_TPTYPE	8	0
ASBEXSCH	0	
ASBEXSCH_LEN	C8	CC
ASBEXSCH_LEN0	C8	CC
ASBEXSCH_LEN1	8	C
ASBEXSCH_TYPE0	0	
ASBEXSCH_TYPE1	0	
EXSCH_APPCCLASS	70	
EXSCH_CALL_MTIME	C4	
EXSCH_CALL_PDATE	B8	
EXSCH_CALL_PTIME	BC	
EXSCH_CALL_TIME	B8	
EXSCH_FMH5_MTIME	88	
EXSCH_FMH5_PDATE	7C	
EXSCH_FMH5_PROF	68	

Table 62. Cross Reference for ASBEXSCH (continued)

Name	Offset	Hex Tag
EXSCH_FMH5_PTIME	80	
EXSCH_FMH5_TIME	7C	
EXSCH_LOCAL_LUNAME	4C	
EXSCH_ON_Q_MTIME	9C	
EXSCH_ON_Q_PDATE	90	
EXSCH_ON_Q_PTIME	94	
EXSCH_ON_Q_TIME	90	
EXSCH_PARTNER_LUNAME	54	
EXSCH_SCHNAME	0	
EXSCH_SCHNAME1	0	
EXSCH_START_MTIME	B0	
EXSCH_START_PDATE	A4	
EXSCH_START_PTIME	A8	
EXSCH_START_TIME	A4	
EXSCH_TOD_INFO	7C	
EXSCH_TPNAME	C	
EXSCH_TPNAME_LEN	8	
EXSCH_TPTYPE	78	
EXSCH_TPTYPE1	8	

Chapter 16. ASCB Information

ASCB Programming Interface Information

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

- ASCBASID
- ASCBASSB
- ASCBASXB
- ASCBDCTI
- ASCBEJST
- ASCBFW3
- ASCBJBNI
- ASCBJBNS
- ASCBLSQE
- ASCBLSQT
- ASCBNOFT
- ASCBOUCB
- ASCBOUXB
- ASCBPO1M
- ASCBP1M0
- ASCBRSME
- ASCBSDBF
- ASCBSRBT
- ASCBTCBE
- ASCBTCBS
- ASCBXTCB

ASCB Heading Information

Common Name:	ADDRESS SPACE CONTROL BLOCK
Macro ID:	IHAASCB
DSECT Name:	ASCB
Owning Component:	SUPERVISOR CONTROL (SC1C5)
Eye-Catcher ID:	ASCB Offset: 0 Length: 4
Storage Attributes:	Subpool: 245 Key: 0 Residency: Below 16M
Size:	384 bytes
Created by:	IEAMSWCB, IEAVEMRQ

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ASCB Heading Information

Pointed to by: CVTASCBH and CVTASCBL fields of the CVT data area
PSAANEW field of the PSA data area
PSAAOLD field of the PSA data area (Master's ASCB)
ASVTENTY field of the ASVT data area
ASCBFWDP, ASCBBWDP and ASCBTRQP fields of the ASCB data area
ASMASCBP field of the ASMVT data area
JSELASCB field of the JSEL data area
LCTASCBA field of the LCT data area
LDAASCB field of the LDA data area
LWAPASCB field of the LWA data area
PCBASCB field of the PCB data area
RSMASCB field of the RSMHD data area
SMCAASCB field of the SMCA data area
SRBASCB field of the SRB data area
SSENASCB and SSETASCB fields of the SSOB data area
TCASASCB field of the TCAST data area
TQEASCB field of the TQE data area
TSBASCBA field of the TSB data area
TVCSASCB field of the TVCS data area
TWAASCB field of the TWAR data area
UCMASCB field of the UCM data area
OUCBASCB field of the OUCB data area
WEBHASCB field of the WEB data area
WEBLSQP field of the WEB data area

Serialization: Serialization of the ASCB is dependent on the field being referenced. Some serialization techniques used here are local lock, compare and swap (CS), compare double and swap, and global intersect.

Function: Contain information and pointers needed for Address Space Control. The ASCB is non-swappable.

ASCB mapping

Table 63. Structure ASCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ASCB	
0	(0)	DBL WORD	8	ASCBEGIN(0)	- BEGINNING OF ASCB
0	(0)	CHARACTER	4	ASCBASCB	- ACRONYM IN EBCDIC -ASCB-
4	(4)	ADDRESS	4	ASCBFWDP	- ADDRESS OF NEXT ASCB ON ASCB READY QUEUE
8	(8)	ADDRESS	4	ASCBBWDP	- ADDRESS OF PREVIOUS ASCB ON ASCB READY QUEUE
12	(C)	ADDRESS	4	ASCBLTCS	- TCB and preemptable-class SRB Local lock suspend service queue. Serialization: ASCB CML promotion WEB lock.
16	(10)	DBL WORD	8	ASCBR010(0)	Reserved as of z/OS 1.12
16	(10)	DBL WORD	8	ASCBSUPC_PREZOS12(0)	- SUPERVISOR CELL FIELD
16	(10)	ADDRESS	4	ASCBSVRB_PREZOS12	- SVRB POOL ADDRESS.
20	(14)	SIGNED	4	ASCBSYNC_PREZOS12	- COUNT USED TO SYNCHRONIZE SVRB POOL.
24	(18)	ADDRESS	4	ASCBIOSP	- POINTER TO IOS PURGE INTERFACE CONTROL BLOCK (IPIB) (MDC308)
28	(1C)	BITSTRING	4	ASCBWQLK(0)	WEB QUEUE LOCK WORD SERIALIZATION: COMPARE AND SWAP OWNERSHIP: SUPERVISOR CONTROL

Table 63. Structure ASCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	BITSTRING	2	ASCBR01C	RESERVED, MUST BE ZERO
30	(1E)	SIGNED	2	ASCBWQID	LOGICAL CPU ID OF THE PROCESSOR HOLDING THE WEB QUEUE LOCK OWNERSHIP: SUPERVISOR CONTROL
32	(20)	ADDRESS	4	ASCBR020(0)	Reserved as of z/OS 1.11
32	(20)	ADDRESS	4	ASCBSAWQ_PREZOS11	- ADDRESS OF ADDRESS SPACE SRB WEB QUEUE SERIALIZATION: WEB QUEUE LOCK OWNERSHIP: SUPERVISOR CONTROL Not set as of z/OS 1.11
		1...		ASCBURRQ_PREZOS11	"X'80'" - SYSEVENT USER READY REQUIRED SERIALIZATION: WEB QUEUE LOCK OWNERSHIP: SUPERVISOR CONTROL Not set as of z/OS 1.11
36	(24)	SIGNED	2	ASCBASN(0)	- SAME AS ASCBASID
36	(24)	SIGNED	2	ASCBASID	- ADDRESS SPACE IDENTIFIER FOR THE ASCB
38	(26)	BITSTRING	1	ASCBR026	- RESERVED
39	(27)	BITSTRING	1	ASCBSRMFLAGS	- SRM flags Ownership: SRM Serialization: SRMLOCK
		1...		ASCBVCMOVERRIDE	"X'80'" - This bit indicates that this address space should not follow the standard SRM management in an VCM=on environment. Instead of trying to assign the work this address space to the same affinity node for cache efficiency concerns, assign this work to any affinity node, ignore any cache concerns. Ownership: SRM
		.1..		ASCBBROKENUP	"X'40'" - This bit indicates that this address space has been broken up by SRM. Ownership: SRM
		..1.		ASCBVCMGIVEPREEMPTION	"X'20'" - This bit indicates that this address space should get full preemption. Ownership: SRM
		...1		ASCBVCMGIVESIGPANY	"X'10'" - This bit indicates that this address space can SIGP any waiting CPUs to process its work. Ownership: SRM
40	(28)	BITSTRING	1	ASCBLL5	- FLAGS. SERIALIZATION - LOCAL LOCK
		..1.		ASCBS3S	"X'20'" - STAGE II EXIT EFECTOR HAS SCHEDULED AN RQE OR IQE AND STAGE III EXIT EFFECTOR SHOULD BE INVOKED
41	(29)	SIGNED	1	ASCBHLHI	- INDICATION OF SUSPEND LOCKS HELD AT TASK SUSPENSION
42	(2A)	SIGNED	2	ASCBDPH(0)	- HALFWORD DISPATCHING PRIORITY
42	(2A)	SIGNED	1	ASCBDPHI	- HIGH ORDER BYTE OF HALFWORD DISPATCHING PRIORITY
43	(2B)	SIGNED	1	ASCBDP	- DISPATCHING PRIORITY RANGE FROM 0-255

Table 63. Structure ASCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
44	(2C)	SIGNED	4	ASCBTCBE	- Count of ready tcbs in the space that are in an enclave. Ownership: Task Management Serialization: Compare and Swap and WEB Lock of TCB for which this count is being manipulated.
48	(30)	ADDRESS	4	ASCBLDA	- POINTER TO LOCAL DATA AREA PART OF LSQA FOR VSM
52	(34)	BITSTRING	1	ASCBRSMF	- RSM ADDRESS SPACE FLAGS (MDC368)
		1...		ASCB2LPU	"X'80'" - SECOND LEVEL PREFERRED USER. THIS OFFSET FIXED BY ARCHITECTURE. (MDC369)
		.1..		ASCB1LPU	"X'40'" - FIRST LEVEL PREFERRED USER (MDC370)
		..1.		ASCBN2LP	"X'20'" - SRM IN SYSEVENT TRANSWAP SHOULD NOT SET ASCB2LPU BIT - HOWEVER IT MAY ALREADY BE ON AND WILL STAY ON (MDC371)
		...1		ASCBVEQR	"X'10'" - V=R ADDRESS SPACE (MDC372)
53	(35)	BITSTRING	1	ASCBFLG3	- Flags needing no serialization
		1...		ASCBCNIP	"X'80'" - Address space created during NIP
		.1..		ASCBREUS	"X'40'" - This is a reusable ASID. It may be given out only to a reusable ASID requestor
54	(36)	SIGNED	2	ASCBR036(0)	Reserved as of z/OS 1.11
54	(36)	SIGNED	2	ASCBHASI_PREZOS11	- Local lock owning ASID. Not set as of z/OS 1.11
56	(38)	ADDRESS	4	ASCBCSCB	- ADDRESS OF CSCB
60	(3C)	ADDRESS	4	ASCBTSB	- ADDRESS OF TSB
64	(40)	DBL WORD	8	ASCBEJST	- ELAPSED JOB STEP TIMING UNSIGNED 64 BIT BINARY NUMBER
72	(48)	DBL WORD	8	ASCBEWST	- TIME OF DAY WHENEVER I-STREAM IS SWITCHED FROM A MEMORY
80	(50)	SIGNED	4	ASCBJSTL	- CPU TIME LIMIT FOR THE JOB STEP UNSIGNED 32 BIT BINARY NUMBER
84	(54)	SIGNED	4	ASCBECB	- RCT'S WORK ECB
88	(58)	SIGNED	4	ASCBUBET	- TIME STAMP WHEN USER BECOMES READY
92	(5C)	ADDRESS	4	ASCBTLCH	- CHAIN FIELD FOR TIME LIMIT EXCEEDED QUEUE (MDC329)
96	(60)	ADDRESS	4	ASCBDUMP	- SVC DUMP TASK TCB ADDRESS
100	(64)	SIGNED	4	ASCBFW1(0)	- FULL-WORD LABEL TO BE USED FOR COMPARE AND SWAP FOR ANY BIT IN THIS WORD MDC026
100	(64)	SIGNED	2	ASCBAFFN	- CPU AFFINITY INDICATOR
102	(66)	BITSTRING	1	ASCBRCTF	- FLAGS FOR RCT SERIALIZED BY COMPARE AND SWAP
		1...		ASCBTMNO	"X'80'" - MEMORY IS BEING QUIESCED, IS QUIESCED, OR IS BEING RESTORED

Table 63. Structure ASCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		ASCBFRS	"X'40'" - RESTORE REQUEST
		..1.		ASCBFQU	"X'20'" - QUIESCE REQUEST
		...1		ASCBJSTE	"X'10'" - JOB STEP TIME EXCEEDED. NOT USED BY RCT
		.... 1...		ASCBWAIT	"X'08'" - LONG WAIT INDICATOR
		.... .1..		ASCBOUT	"X'04'" - ADDRESS SPACE CONSIDERED SWAPPED OUT
		.... ..1.		ASCBTMLW	"X'02'" - MEMORY IS IN A LONG WAIT
		1		ASCBTOFF	"X'01'" - MEMORY SHOULD NOT BE CHECKED FOR JOB STEP TIMING. NOT USED BY RCT
103	(67)	BITSTRING	1	ASCBFLG1	- FLAG FIELD
		1...		ASCBLSAS	"X'80'" - ADDRESS SPACE IS LOGICALLY SWAPPED OUT SERIALIZATION - WHEN SETTING, CPU LOCK, AND THE SWAP INTERSECT - WHEN RESETTING, NONE REQUIRED
		.1..		ASCBDSTK	"X'40'" - SRM REQUIRES A TIME STAMP TO DETERMINE WHEN THE ADDRESS SPACE GOES INTO LONG WAIT. ASCBEWST WILL BE UPDATED WHEN THIS BIT IS ON. NOTE: If this bit moves position the bit constant ASCBDSTZ must also be changed.
		.1..		ASCBDSTZ	"X'40'" - Bit constant for bit position ASCBDSTK. PL/X cannot map bit positions in generated code, so this bit constant allows PL/X to set the bit in generated assembler.
		...1		ASCBTERM	"X'10'" - ADDRESS SPACE TERMINATING NORMALLY
		.... 1...		ASCBABNT	"X'08'" - ADDRESS SPACE TERMINATING ABNORMALLY
		.... .1..		ASCBMEMP	"X'04'" - Memory Termination PURGEDQ flag Serialization: none
104	(68)	SIGNED	4	ASCBTMCH	- TERMINATION QUEUE CHAIN
108	(6C)	ADDRESS	4	ASCBASXB	- POINTER TO ADDRESS SPACE EXTENSION CONTROL BLOCK (ASXB)
112	(70)	SIGNED	4	ASCBFW2(0)	- FULLWORD LABEL TO ADDRESS BITS IN THIS WORD (MDC330)
112	(70)	SIGNED	2	ASCBSWCT	- NUMBER OF TIMES MEMORY ENTERS SHORT WAIT
114	(72)	BITSTRING	1	ASCBDSP1	- NONDISPATCHABILITY FLAGS. SERIALIZATION - GLOBAL INTERSECT. (MDC388)
		1...		ASCBSSND	"X'80'" - SYSTEM SET NONDISPATCHABLE AND THIS ASCB IS NOT EXEMPT (MDC331)
		.1..		ASCBFAIL	"X'40'" - A FAILURE HAS OCCURRED WITHIN THE ADDRESS SPACE. THE MEMORY IS NONDISPATCHABLE

Table 63. Structure ASCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		ASCBSNQS	"X'20'" - STATUS STOP NON-QUIESCABLE LEVEL SRB'S (MDC323)
		...1		ASCBSSSS	"X'10'" - STATUS STOP SRB SUMMARY (MDC332)
		.... 1...		ASCBSTND	"X'08'" - TCB'S NONDISPATCHABLE (MDC322)
		.... .1..		ASCBUWND	"X'04'" - STATUS SET UNLOCKED WORKUNITS NONDISPATCHABLE.
		.... ..1.		ASCBNOQ	"X'02'" - ASCB NOT ON SWAPPED IN QUEUE
115	(73)	BITSTRING	1	ASCBFLG2	- FLAG BYTE. SERIALIZATION - GLOBAL INTERSECT (MDC387)
		1...		ASCBXMPT	"X'80'" - ASCB EXEMPT FROM SYSTEM NONDISPATCHABLE MDC013
		.1..		ASCBPXMT	"X'40'" - ASCB PERMANENTLY EXEMPT FROM SYSTEM NONDISPATCHABLE MDC014
		..1.		ASCBCEXT	"X'20'" - CANCEL TIMER EXTENSION BECAUSE EOT PROCESSING IS STARTED FOR THE JOB STEP TCB MDC021
		...1		ASCBS2S	"X'10'" - FOR LOCK MANAGER, ENTRY MADE TO STAGE II EXIT EFFECTOR WITHOUT CORRESPONDING ENTRY TO STAGE III EXIT EFFECTOR MDC020
		.... 1...		ASCBNCML	"X'08'" - ASCB NOT ELIGIBLE FOR CML LOCK REQUESTS
		.... .1..		ASCBNOMT	"X'04'" - ADDRESS SPACE MUST NOT BE MEMTERMED UNLESS A DAT ERROR HAS OCCURRED. IF A DAT ERROR HAS OCCURRED, ACTION IS CONTROLLED BY ASCBNOMD. OWNERSHIP - SCHEDULER (MDC387)
		.... ..1.		ASCBNOMD	"X'02'" - IF ON,ADDRESS SPACE CANNOT BE MEMTERMED ON A DAT ERROR. IF OFF, PROCESS MEMTERM ON A DAT ERROR. OWNERSHIP - SCHEDULER (MDC387)
116	(74)	SIGNED	4	ASCBSCNT(0)	- FULLWORD LABEL FOR COMPARE AND SWAP (CS) (MDC333)
116	(74)	SIGNED	2		- FIRST HALFWORD OF ASCBSCNT MUST BE ZERO (MDC387)
118	(76)	SIGNED	2	ASCBSRBS	- COUNT OF SRB'S SUSPENDED IN THIS MEMORY (MDC325)
120	(78)	ADDRESS	4	ASCBLLWQ	- ADDRESS SPACE LOCAL LOCK SUSPEND SERVICE WEB QUEUE SERIALIZATION: WEB QUEUE LOCK OWNERSHIP: SUPERVISOR CONTROL
124	(7C)	ADDRESS	4	ASCBRCTP	- POINTER TO REGION CONTROL TASK (RCT) TCB (MDC334)
128	(80)	DBL WORD	8	ASCBLKGP(0)	- LOCK GROUP (MDC306)
128	(80)	SIGNED	4	ASCBLOCK	- LOCAL LOCK. THIS OFFSET FIXED BY ARCHITECTURE. (MDC305)

Table 63. Structure ASCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
132	(84)	ADDRESS	4	ASCBLSWQ	- ADDRESS SPACE LOCAL LOCK WEB SUSPEND QUEUE THIS OFFSET FIXED BY ARCHITECTURE. (MDC307) SERIALIZATION: CDS WITH ASCBLOCK OWNERSHIP: SUPERVISOR CONTROL
		1...		ASCBS3NL	"X'80'" - THE LOCAL LOCK IS NEEDED BY THE STAGE 3 EXIT EFFECTOR TO QUEUE ASYNCHRONOUS EXITS E SERIALIZATION: CDS WITH ASCBLOCK OWNERSHIP: SUPERVISOR CONTROL
		1		ASCBLTCL	"X'01'" - THE LOCAL LOCK IS NEEDED BY SOME TCB or preemptable-class SRB WHEN SET IN BIT 31 OF ASCBLSWQ.
136	(88)	SIGNED	4	ASCBQECB	- QUIESCE ECB
140	(8C)	SIGNED	4	ASCBMECB	- MEMORY CREATE/DELETE ECB
144	(90)	ADDRESS	4	ASCBOUCB	- SYSTEM RESOURCES MANAGER (SRM) USER CONTROL BLOCK POINTER
148	(94)	ADDRESS	4	ASCBOUXB	- SYSTEM RESOURCES MANAGER (SRM) USER EXTENSION BLOCK POINTER
152	(98)	SIGNED	4	ASCBFW2A(0)	- FULLWORD LABEL TO ADDRESS BITS IN THIS WORD. SERIALIZATION - CS.
152	(98)	SIGNED	2	ASCBFMCT	- RESERVED. ALLOCATED PAGE FRAME COUNT NOW RESIDES IN THE RAX (MAPPING MACRO IARRAX).
154	(9A)	BITSTRING	1	ASCBLEVL	- LEVEL NUMBER OF ASCB
		....		ASCBVS00	"X'00'" - HBB2102 (NOT IN BASE)
		1		ASCBVS01	"X'01'" - JBB2110
		.... ..1.		ASCBVS02	"X'02'" - JBB2133
		11		ASCBVS03	"X'03'" - HBB4410
		11		ASCBVERS	"X'03'" - LEVEL OF THIS MAPPING
155	(9B)	BITSTRING	1	ASCBFL2A	- FLAG BYTE.
		1...		ASCBNOPR	"X'80'" - NO PREEMPTION FLAG 1=DO NOT SIGP ANOTHER PROCESSOR TO EXECUTE READY WORK IN THIS SPACE 0=DO SIGP ANOTHER PROCESSOR OWNERSHIP: SRM SERIALIZATION: CS ON ASCBFW2A
156	(9C)	ADDRESS	4	ASCBR09C(0)	Reserved as of z/OS 1.11
156	(9C)	ADDRESS	4	ASCBHREQ_PREZOS11	- Local lock requestor address. Not set as of z/OS 1.11
160	(A0)	ADDRESS	4	ASCBIQEA	- POINTER TO IQE FOR ATCAM ASYNCHRONOUS PROCESSING MDC010
164	(A4)	ADDRESS	4	ASCBRTMC	- ANCHOR FOR SQA SDWA QUEUE (MDC388)
168	(A8)	CHARACTER	4	ASCBMCC	- USED TO HOLD A MEMORY TERMINATION COMPLETION CODE ON ABNORMAL MEMORY TERMINATION MDC012
172	(AC)	ADDRESS	4	ASCBJBNI	- POINTER TO JOBNAME FIELD FOR INITIATED PROGRAMS OR ZERO MDC018

Table 63. Structure ASCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
176	(B0)	ADDRESS	4	ASCBJBNS	- POINTER TO JOBNAME FIELD FOR START/MOUNT/LOGON OR ZERO MDC019
180	(B4)	SIGNED	4	ASCBSRQ(0)	- DISPATCHER SERIALIZATION REQUIRED (MDC312)
180	(B4)	BITSTRING	1	ASCBSRQ1	- FIRST BYTE OF ASCBSRQ (MDC313)
		1...		ASCBDSG4	"X'80'" - SIGNAL WAITING PROCESSORS WHEN INTERSECT IS RESET (MDC335)
		.1..		ASCBDFLT	"X'40'" - DEFAULT LOCAL INTERSECT (MDC336)
181	(B5)	BITSTRING	1	ASCBSRQ2	- SECOND BYTE OF ASCBSRQ (MDC315)
		1...		ASCBDSG3	"X'80'" - SIGNAL WAITING PROCESSORS WHEN INTERSECT IS RESET (MDC337)
		.... ..1.		ASCBSRM1	"X'02'" - SYSTEM RESOURCE MANAGER (SRM) INTERSECTING (MDC338)
		1		ASCBQVER	"X'01'" - QUEUE VERIFICATION INTERSECTING (MDC339)
182	(B6)	BITSTRING	1	ASCBSRQ3	- THIRD BYTE OF ASCBSRQ (MDC316)
		1...		ASCBDSG2	"X'80'" - SIGNAL WAITING PROCESSORS WHEN INTERSECT IS RESET (MDC340)
		.1..		ASCBRCTI	"X'40'" - REGION CONTROL TASK (RCT) INTERSECTING (MDC381)
		..1.		ASCBTCBV	"X'20'" - TCB VERIFICATION INTERSECTING (MDC342)
		...1		ASCBACHA	"X'10'" - ASCB CHAP INTERSECTING (MDC343)
		.... .1..		ASCBMTER	"X'04'" - MEMORY TERMINATION INTERSECTING (MDC345)
		.... ..1.		ASCBMINI	"X'02'" - MEMORY INITIALIZATION INTERSECTING (MDC346)
		1		ASCBCBVE	"X'01'" - CONTROL BLOCK VERIFICATION INTERSECTING (MDC347)
183	(B7)	BITSTRING	1	ASCBSRQ4	- FOURTH BYTE OF ASCBSRQ (MDC317)
		1...		ASCBDSG1	"X'80'" - SIGNAL WAITING PROCESSORS WHEN INTERSECT IS RESET (MDC348)
		.1..		ASCBDETA	"X'40'" - DETACH INTERSECTING (MDC349)
		..1.		ASCBATTA	"X'20'" - ATTACH INTERSECTING (MDC350)
		...1		ASCBRTM2	"X'10'" - RTM2 INTERSECTING (MDC351)
		.... 1...		ASCBRTM1	"X'08'" - RTM1 INTERSECTING (MDC352)
		.... .1..		ASCBCHAP	"X'04'" - CHAP INTERSECTING (MDC353)
		.... ..1.		ASCBSTAT	"X'02'" - STATUS INTERSECTING (MDC354)

Table 63. Structure ASCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		ASCBPURD	"X'01'" - PURGEDQ INTERSECTING (MDC355)
184	(B8)	ADDRESS	4	ASCBVGTT	- ADDRESS OF VSAM GLOBAL TERMINATION TABLE (VGTT) MDC024
188	(BC)	ADDRESS	4	ASCBPCTT	- ADDRESS OF PRIVATE CATALOG TERMINATION TABLE (PCTT) MDC025
192	(C0)	SIGNED	2	ASCBSSRB	- COUNT OF STATUS STOP SRB'S (MDC324)
194	(C2)	SIGNED	1	ASCBSMCT	- NUMBER OF OUTSTANDING STEP MUST COMPLETE REQUESTS IN ADDRESS SPACE MDC016
195	(C3)	BITSTRING	1	ASCBSRBM	- MODEL PSW BYTE 0 USED BY SRB DISPATCHER (MDC379)
		.1..		ASCBPER	"X'40'" - PER BIT IN ASCBSRBM - ALSO USED TO SHOW PER STATUS FOR THE ADDRESS SPACE (MDC380)
196	(C4)	SIGNED	4	ASCBSWTL	- STEP WAIT TIME LIMIT MDC029
200	(C8)	DBL WORD	8	ASCBSRBT	- ACCUMULATED SRB TIME MDC030
208	(D0)	ADDRESS	4	ASCBLTCB	- TCB and preemptable-class SRB Local lock suspend queue. Serialization: Adding, CS. Deleting, ASCB CML promotion WEB lock and CS.
212	(D4)	SIGNED	4	ASCBLTCN	- Count of TCB and preemptable-class SRB (local and CML) requestors needing this local lock. Serialization: CS
216	(D8)	SIGNED	4	ASCBTCBS	- NUMBER OF READY TCB'S. THE ACTUAL NUMBER OF READY TCBS IS ASCBTCBS-ASCBLSQT. SERIALIZATION: CS OWNERSHIP: TASK MANAGEMENT
220	(DC)	SIGNED	4	ASCBLSQT	- NUMBER OF TCBS ON A LOCAL LOCK SUSPEND QUEUE. SERIALIZATION: CS OWNERSHIP: TASK MANAGEMENT
224	(E0)	ADDRESS	4	ASCBWPRB	- ADDRESS OF WAIT POST REQUEST BLOCK (MDC362)
228	(E4)	SIGNED	4	ASCBSRDP(0)	- SYSTEM RESOURCE MANAGER (SRM) DISPATCHING PRIORITY (MDC363)
228	(E4)	SIGNED	1	ASCBNDP	- NEW DISPATCHING PRIORITY (MDC364)
229	(E5)	SIGNED	1	ASCBTNDP	- NEW TIME SLICE DISPATCHING PRIORITY (MDC365)
230	(E6)	SIGNED	1	ASCBNTSG	- NEW TIME SLICE GROUP (MDC366)
231	(E7)	SIGNED	1	ASCBIODP	- I/O PRIORITY (MDC374)
232	(E8)	ADDRESS	4	ASCBLOCI	- LOCK IMAGE, ADDRESS OF ASCB HOLDING THIS ASCB'S LOCAL LOCK AS A CML LOCK. SERIALIZATION - LOCAL LOCK. OWNERSHIP - SUPERVISOR. (MDC384)

Table 63. Structure ASCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
236	(EC)	ADDRESS	4	ASCBCMLW	- ADDRESS OF THE WEB REPRESENTING THE WORKUNIT THAT IS HOLDING THIS ASCB'S LOCAL LOCK AS A CML OR LOCAL LOCK. SERIALIZATION - LOCAL LOCK. OWNERSHIP - SUPERVISOR CONTROL
240	(F0)	SIGNED	4	ASCBR0F0(0)	Reserved as of z/OS 1.12
240	(F0)	SIGNED	4	ASCBCMLC_PREZOS12	- COUNT OF CML LOCKS HELD BY THIS ADDRESS SPACE. SERIALIZATION - CS. OWNERSHIP - SUPERVISOR.
244	(F4)	SIGNED	4	ASCBSSOM(0)	- SPACE SWITCH EVENT OWNER MASK. SERIALIZATION - CS. OWNERSHIP - SUPERVISOR.
244	(F4)	BITSTRING	3	ASCBSSO1	- SPACE SWITCH EVENT OWNER MASK BYTES 1 - 3. (MDC389)
247	(F7)	BITSTRING	1	ASCBSSO4	- SPACE SWITCH EVENT OWNER MASK BYTE 4. (MDC389)
		.... ..1.		ASCBSSSP	"X'02'" - SLIP/PER REQUESTED NOTIFICATION ON SPACE SWITCH EVENTS. (MDC389)
		1		ASCBSSJS	"X'01'" - JOB STEP TERMINATION REQUESTED SPACE SWITCH EVENTS FOR BREAKING LATENT ADDRESSING BINDS (MDC389)
248	(F8)	ADDRESS	4	ASCBASTE	- VIRTUAL ADDRESS OF ADDRESS SPACE SECOND TABLE ENTRY (ASTE). SERIALIZATION - N/A. OWNERSHIP - SUPERVISOR. (MDC384)
252	(FC)	ADDRESS	4	ASCBLTOV	- VIRTUAL ADDRESS OF THE LINKAGE TABLE ORIGIN. (LOCATED IN PC/AUTH ADDRESS SPACE LSQA). SERIALIZATION - PC/AUTH ADDRESS SPACE LOCAL LOCK. OWNERSHIP - XM SERVICES. (MDC384)
256	(100)	ADDRESS	4	ASCBATOV	- VIRTUAL ADDRESS OF AUTHORIZATION TABLE (LOCATED IN PC/AUTH ADDRESS SPACE LSQA). SERIALIZATION: PC/AUTH, ADDRESS SPACE LOCAL LOCK. OWNERSHIP: XM SERVICES (MDC384)
260	(104)	SIGNED	2	ASCBETC	- NUMBER OF ENTRY TABLES CURRENTLY OWNED BY THIS ADDRESS SPACE. SERIALIZATION - PC/AUTH ADDRESS SPACE LOCAL LOCK. OWNERSHIP - XM SERVICES. (MDC384)
262	(106)	SIGNED	2	ASCBETCN	- NUMBER OF CONNECTIONS TO ENTRY TABLES IN THIS ADDRESS SPACE CONTAINING ANY SPACE SWITCH ENTRIES. SERIALIZATION - PC/AUTH ADDRESS SPACE LOCAL LOCK. OWNERSHIP - XM SERVICES. (MDC387)

Table 63. Structure ASCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
264	(108)	SIGNED	2	ASCBLXR	- NUMBER OF LINKAGE INDEXES RESERVED BY THIS ADDRESS SPACE. SERIALIZATION - PC/AUTH ADDRESS SPACE LOCAL LOCK. OWNERSHIP - XM SERVICES. (MDC384)
266	(10A)	SIGNED	2	ASCBAXR	- NUMBER OF AUTHORIZATION INDEXES RESERVED BY THIS ADDRESS SPACE. SERIALIZATION - PC/AUTH ADDRESS SPACE LOCAL LOCK. OWNERSHIP - XM SERVICES. (MDC384)
268	(10C)	ADDRESS	4	ASCBSTKH	- ADDRESS OF LOCAL STACK POOL HEADER FOR PCLINK SERVICE. SERIALIZATION - N/A. OWNERSHIP - XM SERVICES. (MDC383)
272	(110)	BITSTRING	8	ASCBR110	Reserved.
280	(118)	ADDRESS	4	ASCBJAFBADDR	- Address of the JAFB
284	(11C)	ADDRESS	4	ASCBXTCB	- ADDRESS OF THE JOB STEP @G381P9A TASK TCB WHICH OWNS THE CROSS MEMORY RESOURCES IN THIS ADDRESS SPACE. SERIALIZATION - LOCAL LOCK. OWNERSHIP - SUPERVISOR. (MDC384)
288	(120)	SIGNED	4	ASCBFW3(0)	- Fullword label to address bits in this word. Serialization - CS. This word is a programming interface only for bits ASCBSDBF, ASCBNOFT, ASCBPO1M, ASCBP1M0
288	(120)	BITSTRING	1	ASCBCS1	- FIRST BYTE OF COMPARE AND SWAP FLAGS. (MDC384)
		1...		ASCBXMET	"X'80'" - IF ONE, THE ADDRESS SPACE IS NON-REUSABLE BECAUSE OF CROSS MEMORY CONNECTIONS TO IT. THIS CONDITION MAY NOT BE PERMANENT. SERIALIZATION - CS AND PC/AUTH ADDRESS SPACE LOCAL LOCK. OWNERSHIP - XM SERVICES.
		.1..		ASCBXMEC	"X'40'" - CROSS MEMORY ENTRY TABLES CONTAINING SPACE SWITCH ENTRIES HAVE BEEN CREATED BY THIS ADDRESS SPACE. SERIALIZATION - CS AND PC/AUTH ADDRESS SPACE LOCAL LOCK. OWNERSHIP - XM SERVICES. (MDC390)
		..1.		ASCBXMPA	"X'20'" - IF ONE, THE ADDRESS SPACE IS PERMANENTLY NON-REUSABLE BECAUSE OF INCOMPLETE TERMINATION PROCESSING OF PC/AUTH RESOURCE MANAGER. SERIALIZATION - CS AND PC/AUTH ADDRESS SPACE LOCAL LOCK. OWNERSHIP - XM SERVICES.

Table 63. Structure ASCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		ASCBXMLK	"X'10'" - IF ONE, THE ADDRESS SPACE IS PERMANENTLY NON-REUSABLE BECAUSE OF A CML BIND. SERIALIZATION - CS AND PC/AUTH ADDRESS SPACE LOCAL LOCK. OWNERSHIP - XM SERVICES.
		.... 1...		ASCBPERS	"X'08'" - COMMUNICATION BIT FOR SLIP/PER SRB ROUTINES. IF 1, THE LOCAL SRB ROUTINE WILL ACTIVATE PER FOR THE SPECIFIED ADDRESS SPACE/JOB/CROSS MEMORY REFERENCES. IF 0, THE LOCAL SRB ROUTINE WILL DEACTIVATE PER FOR THE ADDRESS SPACE. SERIALIZATION - CS AND SLIP SERIALIZATION WORD, SHDRSEQ. OWNERSHIP - SLIP/PER. (MDC390)
		.... .1..		ASCBDTER	"X'04'" - A DAT ERROR HAS OCCURRED FOR THIS ADDRESS SPACE. SERIALIZATION - CS. OWNERSHIP - RTM. (MDC390)
		.... ..1.		ASCBPERO	"X'02'" - PER PROCESSING NEEDS TO BE DONE WHEN ADDRESS SPACE IS SWAPPED IN. SERIALIZATION - CS. OWNERSHIP - SLIP.
		1		ASCBSWOP	"X'01'" - ADDRESS SPACE IS SWAPPED OUT WITH RESPECT TO PER PROCESSING BEING DONE. SERIALIZATION - CS. OWNERSHIP - RCT.
289	(121)	BITSTRING	1	ASCBCS2	- SECOND BYTE OF COMPARE AND SWAP FLAGS.
		1...		ASCBSAS	"X'80'" - INDICATES THAT STORAGE ALTERATION SELECTION (PER 2) IS ON FOR EITHER A DATA SPACE ASSOCIATED WITH THE ADDRESS SPACE, OR THE ADDRESS SPACE ITSELF.
		.1..		ASCBSMGR	"X'40'" - This space is or has been associated with the session manager
		..1.		ASCBDTIN	"X'20'" - This space is or has been associated with ISPF
		...1		ASCBXMNR	"X'10'" - The address space is permanently non-reusable because of cross memory connections to a system LX. Serialization - CS and PC/AUTH address space Local lock. Ownership - XM services

Table 63. Structure ASCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		ASCBSDBF	"X'08'" - A work unit in this address space has set CVTSDBF bit 0 to 1. If this address space is memtermed when this bit is on, the system will reset CVTSDBF. ASCBSDBF must be set on only by the work unit that has just set CVTSDBF bit 0 to 1. ASCBSDBF must be reset just prior to resetting CVTSDBF. ASCBSDBF must be set in the home address space. The SVC Dump request must properly indicate BUFFER=YES. Serialization: CS
		.... .1..		ASCBNOFT	"X'04'" - Set this to exempt all tasks in this address space from being affected by the FORCE TCB command. Serialization: CS
		.... ..1.		ASCBPO1M	"X'02'" - Set this to indicate that the RMODE 31 portion of program objects is to be backed by 1M pages (when available). The bit is reset at jobstep start. It applies only to modules loaded into private storage. Serialization: CS
		1		ASCBP1M0	"X'01'" - Set this to indicate that the RMODE 31 portion of program objects is to be backed by 1M pages (when available), but only when the module will be placed into SP252. The bit is reset at jobstep start. It applies only to modules loaded into private storage. Do not also set ASCBPO1M. Serialization: CS
290	(122)	BITSTRING	2	ASCBR122	- RESERVED. SERIALIZATION- CS. (MDC389)
292	(124)	ADDRESS	4	ASCBGXL	- ADDRESS OF GLOBALLY LOADED MODULE EXTENT INFORMATION CONTROL BLOCK. SERIALIZATION - LOCAL LOCK. OWNERSHIP - CONTENTS SUPERVISION (MDC389)
296	(128)	DBL WORD	8	ASCBEATT	- EXPENDED AND ACCOUNTED TASK TIME. SERIALIZATION - N/A. OWNERSHIP - SCHEDULER. (MDC387)
304	(130)	DBL WORD	8	ASCBINTS	- JOB SELECTION TIME STAMP. SERIALIZATION - N/A. OWNERSHIP - SCHEDULER. (MDC387)
312	(138)	SIGNED	4	ASCBFW4(0)	- FULLWORD LABEL TO ADDRESS BITS IN THIS WORD. SERIALIZATION - LOCAL LOCK. (MDC389)
312	(138)	BITSTRING	1	ASCBLL1	- FIRST BYTE OF FLAGS. SERIALIZATION - LOCAL LOCK. (MDC389)

Table 63. Structure ASCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		ASCBSSPC	"X'80'" - STATUS STOP TASKS PENDING A CML LOCK RELEASE. (MDC389)
313	(139)	BITSTRING	1	ASCBLL2	- SECOND BYTE OF FLAGS. SERIALIZATION - LOCAL LOCK. (MDC389)
314	(13A)	BITSTRING	1	ASCBLL3	- THIRD BYTE OF FLAGS. SERIALIZATION - LOCAL LOCK. (MDC389)
315	(13B)	BITSTRING	1	ASCBLL4	- FOURTH BYTE OF FLAGS. SERIALIZATION - LOCAL LOCK. (MDC389)
		1...		ASCBNRLL	"X'80'" - No release of Local Lock OK. Set only after obtaining LL.
		.... ..1.		ASCBTYP1	"X'02'" - TYPE 1 SVC HAS CONTROL. THIS OFFSET FIXED BY ARCHITECTURE.
316	(13C)	ADDRESS	4	ASCBRCMS	ADDRESS OF THE REQUESTED CMS CLASS LOCK FOR WHICH THE LOCAL LOCK HOLDER IS SUSPENDED. SERIALIZATION - LOCAL LOCK. OWNERSHIP - SUPERVISOR. (MDC391)
320	(140)	SIGNED	4	ASCBIOSC	- I/O SERVICE MEASURE. SERIALIZATION - CS. UPDATED BY JES2,JES3,SMF. READ BY RMF,SMF,SRM.
324	(144)	SIGNED	2	ASCBPKML	- PKM OF LAST TASK DISPATCHED IN THIS ADDRESS SPACE. SERIALIZATION - NONE. OWNERSHIP - DISPATCHER.
326	(146)	SIGNED	2	ASCBXCNT	- EXCP COUNT FIELD. SERIALIZATION - LOCAL LOCK. OWNERSHIP - EXCP.
328	(148)	ADDRESS	4	ASCBNSQA	- ADDRESS OF THE SQA RESIDENT NSSA CHAIN. SERIALIZATION - DISPATCHER LOCK. OWNERSHIP - DISPATCHER.
332	(14C)	ADDRESS	4	ASCBASM	- ADDRESS OF THE ASM HEADER. SERIALIZATION - NONE. OWNERSHIP - ASM.
336	(150)	ADDRESS	4	ASCBASSB	- POINTER TO ADDRESS SPACE SECONDARY BLOCK (ASSB).
340	(154)	ADDRESS	4	ASCBTCME	- POINTER TO TCXTB. OWNERSHIP - TCAM.
344	(158)	ADDRESS	4	ASCBGQIR(0)	- ISGQSCAN INFORMATION ROUTINE ADDRESS. SERIALIZATION - COMPARE AND SWAP. OWNERSHIP - GRS
344	(158)	BITSTRING	1		- BYTE 0 OF ASCBGQIR
		1...		ASCBGQAB	"X'80'" - ISGQSCAN INFORMATION ROUTINE ABENDED FLAG. IF ON, ISGQSCAN INFORMATION ROUTINE UNEXPECTEDLY ABENDED.
345	(159)	BITSTRING	2		- BYTE 1 AND 2 OF ASCBGQIR
347	(15B)	BITSTRING	1	ASCBGQI3	- BYTE 3 OF ASCBGQIR

Table 63. Structure ASCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		ASCBGQDS	"X'01'" - ISGQSCAN INFORMATION ROUTINE DISABLED FLAG. IF ON, ISGQSCAN WILL NOT INVOKE THE ISGQSCAN INFORMATION ROUTINE.
348	(15C)	SIGNED	4	ASCBLSQE	- Number of Enclave TCBs that are on a Local Lock Suspend Queue. Ownership: Task Management Serialization: Compare and Swap
352	(160)	DBL WORD	8	ASCBIOSX	- I/O service measure extended. This is like ASCBIOSC but it is extended to 8 bytes, so its value continuestto grow past the 4GB ASCBIOSC maximum capacity. Serialization - CSG.
360	(168)	BITSTRING	2	ASCBR168	- RESERVED.
362	(16A)	BITSTRING	2	ASCBSVCN	- SVC Number for type-1 SVC Serialization - local lock
364	(16C)	ADDRESS	4	ASCBRSME	- POINTER TO RSM ADDRESS SPACE BLOCK EXTENSION. SERIALIZATION: RSMAD LOCK OWNERSHIP: RSM
368	(170)	SIGNED	4	ASCBAVM(0)	- AVAILABILITY MANAGER ADDRESS SPACE RELATED DATA. SERIALIZATION: CS. OWNERSHIP: AVM.
368	(170)	BITSTRING	1	ASCBAVM1	- FIRST BYTE OF ASCBAVM. RESERVED.
369	(171)	BITSTRING	1	ASCBAVM2	- SECOND BYTE OF ASCBAVM. RESERVED.
370	(172)	SIGNED	2	ASCBAGEN	- AVM ASID REUSE GENERATION NUMBER.
372	(174)	SIGNED	4	ASCBARC	- REASON CODE ON MEMTERM. SERIALIZATION - N/A. OWNERSHIP - RTM.
376	(178)	ADDRESS	4	ASCBRSM(0)	- ADDRESS OF RSM'S CONTROL BLOCK HEADER.
376	(178)	ADDRESS	4	ASCBRSMA	- ADDRESS OF RSM'S CONTROL BLOCK HEADER.
380	(17C)	SIGNED	4	ASCBDCTI	- ACCUMULATED CHANNEL CONNECT TIME INCURRED BY THIS MEMORY
384	(180)	DBL WORD	8	ASCBEND(0)	- END OF ASCB

Table 64. Cross Reference for ASCB

Name	Offset	Hex Tag
ASCB	0	
ASCBABNT	67	8
ASCBACHA	B6	10
ASCBAFFN	64	
ASCBAGEN	172	
ASCBARC	174	
ASCBASCB	0	
ASCBASID	24	

Table 64. Cross Reference for ASCB (continued)

Name	Offset	Hex Tag
ASCBASM	14C	
ASCBASN	24	
ASCBASSB	150	
ASCBASTE	F8	
ASCBASXB	6C	
ASCBATOV	100	
ASCBATTA	B7	20
ASCBAVM	170	
ASCBAVM1	170	
ASCBAVM2	171	
ASCBAXR	10A	
ASCBBROKENUP	27	40
ASCBBWDP	8	
ASCBCBVE	B6	1
ASCBCEXT	73	20
ASCBCHAP	B7	4
ASCBCMLC_PREZOS12	F0	
ASCBCMLW	EC	
ASCBCNIP	35	80
ASCBCSCB	38	
ASCBCS1	120	
ASCBCS2	121	
ASCBDCTI	17C	
ASCBDETA	B7	40
ASCBDFLT	B4	40
ASCBDP	2B	
ASCBDPH	2A	
ASCBDPHI	2A	
ASCBDSG1	B7	80
ASCBDSG2	B6	80
ASCBDSG3	B5	80
ASCBDSG4	B4	80
ASCBDSP1	72	
ASCBDSTK	67	40
ASCBDSTZ	67	40
ASCBDTER	120	4
ASCBDTIN	121	20
ASCBDUMP	60	
ASCBEATT	128	
ASCBECB	54	
ASCBEGIN	0	
ASCBEJST	40	
ASCBEND	180	
ASCBETC	104	
ASCBETCN	106	
ASCBEWST	48	
ASCBFAIL	72	40
ASCBFLG1	67	
ASCBFLG2	73	

Table 64. Cross Reference for ASCB (continued)

Name	Offset	Hex Tag
ASCBFLG3	35	
ASCBFL2A	9B	
ASCBFMCT	98	
ASCBFQU	66	20
ASCBFRS	66	40
ASCBFWDP	4	
ASCBFW1	64	
ASCBFW2	70	
ASCBFW2A	98	
ASCBFW3	120	
ASCBFW4	138	
ASCBGQAB	158	80
ASCBGQDS	15B	1
ASCBGQIR	158	
ASCBGQI3	15B	
ASCBGXL	124	
ASCBHASI_PREZOS11	36	
ASCBHLHI	29	
ASCBHREQ_PREZOS11	9C	
ASCBINTS	130	
ASCBIODP	E7	
ASCBIOSC	140	
ASCBIOSP	18	
ASCBIOSX	160	
ASCBIQEA	A0	
ASCBJAFBADDR	118	
ASCBJBNI	AC	
ASCBJBNS	B0	
ASCBJSTE	66	10
ASCBJSTL	50	
ASCBLDA	30	
ASCBLEVL	9A	
ASCBLKGP	80	
ASCBLLWQ	78	
ASCBLL1	138	
ASCBLL2	139	
ASCBLL3	13A	
ASCBLL4	13B	
ASCBLL5	28	
ASCBLOCI	E8	
ASCBLOCK	80	
ASCBLSAS	67	80
ASCBLSQE	15C	
ASCBLSQT	DC	
ASCBLSWQ	84	
ASCBLTCB	D0	
ASCBLTCL	84	1
ASCBLTCN	D4	
ASCBLTCS	C	

Table 64. Cross Reference for ASCB (continued)

Name	Offset	Hex Tag
ASCBLTOV	FC	
ASCBLXR	108	
ASCBMCC	A8	
ASCBMECB	8C	
ASCBMEMP	67	4
ASCBMINI	B6	2
ASCBMTER	B6	4
ASCBNCML	73	8
ASCBNDP	E4	
ASCBNOFT	121	4
ASCBNOMD	73	2
ASCBNOMT	73	4
ASCBNOPR	9B	80
ASCBNOQ	72	2
ASCBNRLL	13B	80
ASCBNSQA	148	
ASCBNTSG	E6	
ASCBN2LP	34	20
ASCBOUCB	90	
ASCBOUT	66	4
ASCBOUXB	94	
ASCBPCTT	BC	
ASCBPER	C3	40
ASCBPERO	120	2
ASCBPERS	120	8
ASCBPKML	144	0
ASCBPO1M	121	2
ASCBPURD	B7	1
ASCBPXMT	73	40
ASCBP1M0	121	1
ASCBQECB	88	
ASCBQVER	B5	1
ASCBRCMS	13C	
ASCBRCTF	66	
ASCBRCTI	B6	40
ASCBRCTP	7C	
ASCBREUS	35	40
ASCBRSM	178	
ASCBRSMA	178	
ASCBRSME	16C	
ASCBRSMF	34	
ASCBRTMC	A4	
ASCBRTM1	B7	8
ASCBRTM2	B7	10
ASCBR0F0	F0	
ASCBR01C	1C	
ASCBR010	10	
ASCBR020	20	
ASCBR026	26	

Table 64. Cross Reference for ASCB (continued)

Name	Offset	Hex Tag
ASCBR036	36	
ASCBR09C	9C	
ASCBR110	110	
ASCBR122	122	
ASCBR168	168	
ASCBSAS	121	80
ASCBSAWQ_PREZOS11	20	
ASCBSCNT	74	
ASCBSDBF	121	8
ASCBSMCT	C2	
ASCBSMGR	121	40
ASCBSNQS	72	20
ASCBSRBM	C3	
ASCBSRBS	76	
ASCBSRBT	C8	
ASCBSRDP	E4	
ASCBSRMFLAGS	27	
ASCBSRM1	B5	2
ASCBSRQ	B4	
ASCBSRQ1	B4	
ASCBSRQ2	B5	
ASCBSRQ3	B6	
ASCBSRQ4	B7	
ASCBSSJS	F7	1
ASCBSSND	72	80
ASCBSSOM	F4	
ASCBSSO1	F4	
ASCBSSO4	F7	
ASCBSSPC	138	80
ASCBSSRB	C0	
ASCBSSSP	F7	2
ASCBSSSS	72	10
ASCBSTAT	B7	2
ASCBSTKH	10C	
ASCBSTND	72	8
ASCBSUPC_PREZOS12	10	
ASCBSVCN	16A	
ASCBSVRB_PREZOS12	10	
ASCBSWCT	70	
ASCBSWOP	120	1
ASCBSWTL	C4	
ASCBSYNC_PREZOS12	14	
ASCBS2S	73	10
ASCBS3NL	84	80
ASCBS3S	28	20
ASCBTCBE	2C	
ASCBTCBS	D8	
ASCBTCBV	B6	20
ASCBTCME	154	

Table 64. Cross Reference for ASCB (continued)

Name	Offset	Hex Tag
ASCBTERM	67	10
ASCBTLCH	5C	
ASCBTMCH	68	
ASCBTMLW	66	2
ASCBTMNO	66	80
ASCBTNDP	E5	
ASCBTOFF	66	1
ASCBTSB	3C	
ASCBTYP1	13B	2
ASCBUBET	58	
ASCBURRQ_PREZOS11	20	80
ASCBUWND	72	4
ASCBVCMGIVEPREEMPTION	27	20
ASCBVCMGIVESIGPANY	27	10
ASCBVCMOVERRIDE	27	80
ASCBVEQR	34	10
ASCBVERS	9A	3
ASCBVGTT	B8	
ASCBVS00	9A	0
ASCBVS01	9A	1
ASCBVS02	9A	2
ASCBVS03	9A	3
ASCBWAIT	66	8
ASCBWPRB	E0	
ASCBWQID	1E	
ASCBWQLK	1C	
ASCBXCNT	146	
ASCBXMEC	120	40
ASCBXMET	120	80
ASCBXMLK	120	10
ASCBXMNR	121	10
ASCBXMPA	120	20
ASCBXMPT	73	80
ASCBXTCB	11C	
ASCB1LPU	34	40
ASCB2LPU	34	80

Chapter 17. ASEO Information

ASEO Programming Interface Information

ASEO is a programming interface.

ASEO Heading Information

Common Name:	ASCRE Create Output data area
Macro ID:	IHAASEO
DSECT Name:	ASEO
Owning Component:	Address Space Services (SCASE)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: N/A, user-provided
Size:	24 bytes
Created by:	User of ASCRE in user-provided storage
Pointed to by:	N/A
Serialization:	N/A
Function:	Maps the output data area that the system provides at the location specified by the ODA parameter on the address space creation macro, ASCRE. The area contains the ASID and STOKEN of the created address space and the ECBs that the ASCRE issuer can use in initializing the address space.

ASEO mapping

Table 65. Structure ASEO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ASEO	
0	(0)	BITSTRING	8	ASEOSTKN	64-bit stoken of new ASCB
8	(8)	ADDRESS	4	ASEOASCB	ASCB of new address space
12	(C)	ADDRESS	4	ASEOECB	ECBs, basing for IEZEAECB
16	(10)	BITSTRING	8	ASEORSV1	Reserved

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Chapter 18. ASMHD Information

ASMHD Heading Information

Common Name:	Auxiliary Storage Management Header
Macro ID:	ILRASMHD
DSECT Name:	ASMHD
Owning Component:	Auxiliary Storage Manager (SC1CW)
Eye-Catcher ID:	None
Storage Attributes:	Virtual Storage: YES Subpool: 245 Key: 0 Data Space: NO Residency: Above 16 Megabytes virtual
Size:	112 bytes
Created by:	ILRASHCD
Pointed to by:	ASCBASM field of ASCB data area
Serialization:	The ASMGL lock is used to serialize: I/O control flags, swap and page counters, and the swap queues. The ASM class lock of the owning address space is used to serialize the VIO control flags and LGE queue base pointer.
Function:	ASMHD is used by ASM to manage paging I/O and swap operations for each private address space. ASM also uses ASMHD to control all operations for VIO data sets owned by a private address space.

ASMHD mapping

Table 66. Structure ASMHD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	112	ASMHD	ASM Header
0	(0)	BITSTRING	1	ASHFLAG1	I/O control flags
		1...		ASHSWPOT	Swap-out flag. 1 = Swap-out operation in progress, 0 = No swap-out in progress
		.1..		ASHCAPER	Swap capture queue error. 1 = One or more swap-out AIAs on swap capture queue has suffered an I/O error, 0 = All AIAs on swap capture queue have completed successfully
		..1.		ASHPERME	Permanent software error flag. 1 = One or more swap-out AIAs on the swap capture queue has a non-restartable soft error, 0 = All AIAs on the swap capture queue have no logical errors
		...1		ASHRSV2	Reserved
		.... 1...		ASHRSV3	Reserved
		.... .1..		ASHRSV4	Reserved
		.... ..1.		ASHRSV5	Reserved
		1		ASHRSV6	Reserved

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Table 66. Structure ASMHD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1	(1)	BITSTRING	1	ASHFLAG2	VIO control flags
		1...		ASHSCHED	SRB controller scheduled flag. 1 = SRB controller has been scheduled, but not dispatched SRB for address space not available, 0 = SRB for address space available
		.1..		ASHRSV13	Reserved
		..1.		ASHRSV7	Reserved
		...1		ASHRSV8	Reserved
		.... 1...		ASHRSV9	Reserved
		.... .1..		ASHRSV10	Reserved
		.... ..1.		ASHRSV11	Reserved
		1		ASHRSV12	Reserved
2	(2)	SIGNED	2	ASHRSV15	Reserved
4	(4)	SIGNED	4	ASHSWPCT	Count of started/not complete LSQA swap-out AIAs
8	(8)	SIGNED	4	ASHRSV14	Reserved
12	(C)	ADDRESS	4	ASHSWAPQ	Swap queue for AIAs, this queue is a hold queue for LSQA AIAs during swap-out processing of non-LSQA I/O
16	(10)	ADDRESS	4	ASHCAPQ	Swap capture queue used to collect I/O complete AIAs during LSQA swap-out processing
20	(14)	SIGNED	4	ASHLOCK	Lock word for ASM class lock, used by VIO control processing
24	(18)	ADDRESS	4	ASHVSRBP	Address of SRB used by VIO control to dispatch the SRB controller. This pointer is zero if no VIO data sets have ever been used by the address space. Once created, the SRB is not freed until address space termination.
28	(1C)	ADDRESS	4	ASHLGEQ	Address of first LGE in queue of LGEs for VIO data sets
32	(20)	UNSIGNED	4	ASHNSWRR	Count of non-swap write request AIAs received by I/O control for this address space. This does not include swap that spills to paging data sets or migration I/O.
36	(24)	UNSIGNED	4	ASHNSWRC	Count of non-swap write request AIAs completed and returned to RSM for this address space. This does not include swap that spills to paging data sets or migration I/O.
40	(28)	UNSIGNED	8	ASHSCMIORQR	
48	(30)	UNSIGNED	8	ASHSCMIORQC	
56	(38)	UNSIGNED	8	ASHSCMNSWRR	
64	(40)	UNSIGNED	8	ASHSCMNSWRC	
72	(48)	UNSIGNED	8	ASHSCM1MRQR	

Table 66. Structure ASMHD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
80	(50)	UNSIGNED	8	ASHSCM1MRQC	
88	(58)	UNSIGNED	8	ASHSCM1MWRR	
96	(60)	UNSIGNED	8	ASHSCM1MWRC	
104	(68)	UNSIGNED	4	ASHACTIVEREQS	Count of active I/O requests / for this address space.
108	(6C)	UNSIGNED	4	ASHRSVD1	Reserved

Table 67. Cross Reference for ASMHD

Name	Offset	Hex Tag
ASHACTIVEREQS	68	
ASHCAPER	0	40
ASHCAPQ	10	
ASHFLAG1	0	
ASHFLAG2	1	
ASHLGEQ	1C	
ASHLOCK	14	
ASHNSWRC	24	
ASHNSWRR	20	
ASHPERME	0	20
ASHRSVD1	6C	
ASHRSV10	1	04
ASHRSV11	1	02
ASHRSV12	1	01
ASHRSV13	1	40
ASHRSV14	8	
ASHRSV15	2	
ASHRSV2	0	10
ASHRSV3	0	08
ASHRSV4	0	04
ASHRSV5	0	02
ASHRSV6	0	01
ASHRSV7	1	20
ASHRSV8	1	10
ASHRSV9	1	08
ASHSCHED	1	80
ASHSCMIORQC	30	
ASHSCMIORQR	28	
ASHSCMNSWRC	40	
ASHSCMNSWRR	38	
ASHSCM1MRQC	50	
ASHSCM1MRQR	48	
ASHSCM1MWRC	60	
ASHSCM1MWRR	58	
ASHSWAPQ	C	
ASHSWPCT	4	
ASHSWPOT	0	80
ASHVSRBP	18	
ASMHD	0	

Chapter 19. ASMVT Information

ASMVT Heading Information

Common Name:	ASM Vector Table
Macro ID:	ILRASMVT
DSECT Name:	ASMVT
Owning Component:	Auxiliary Storage Manager (SC1CW)
Eye-Catcher ID:	None
Storage Attributes:	Main Storage: Nucleus Key: 0 Residency: Below 16M
Size:	1280 bytes
Created by:	ILRASRIM
Pointed to by:	CVTASMVT
Serialization:	The ASM global lock. Compare and swap logic is used to serialize group operator sections and the pool controller queues.
Function:	The ASMVT is a collection of general ASM information to be used by most ASM functions.

ASMVT mapping

Table 68. Structure ASMVT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	1280	ASMVT	ASM Vector Table
0	(0)	BITSTRING	1	ASMFLAG1	ASM global flag field 1
		1...		ASMCOMMONDSEXISTS	1=Common page data set exists
		.1..		ASMNPRIM	No primary page data set flag. 1 = Do not write to the primary page data set, 0 = Process common pages normally
		..1.		ASMNOLCL	No local data paging flag. 1 = All writes must be sent to the primary page data set, 0 = Write private pages normally
		...1		ASMPGDEL	PAGEDEL in progress flag. 1 = PAGEDEL is currently in process, 0 = PAGEDEL not active.
		.... 1...		ASMPLPADSEXISTS	1=PLPA page data set exists
		.... .1..		ASMPLPAF	PLPA data set full flag. 1 = PLPA data set full, 0 = PLPA data set not full
		.... ..1.		ASMCOMMF	Common data set full flag. 1 = Common data set full, 0 = Common data set not full
		1		ASMPLPAS	PLPA data set spill flag. 1 = PLPA data set spilled to common data set during PLPA build at NIP time, 0 = PLPA data set not full after PLPA build

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Table 68. Structure ASMVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1	(1)	BITSTRING	1	ASMFLAG2	ASM global flag field 2
		1...		ASMDSRO	Data sets made read-only flag. 1 = ILRPGDEL has made data sets read-only on a delete request, 0 = ILRPGDEL has not made data sets read-only.
		.1..		ASMNOSAV	No save flag. 1 = VIO journaling data set unavailable or full, save requests not done, 0 = VIO journaling data set available for use
		..1.		ASMNOTMR	No task mode release flag. 1 = Task mode release (ILRTMRLG) has suffered indeterminate errors, do not post its ECB, 0 = ILRTMRLG running normally
		...1		ASMNOTPT	No TPARTBLE flag. 1 = A read or write of TPARTBLE has failed, it is not up to date, 0 = TPARTBLE available and correct
		.... 1...		ASMQUICK	Quick start IPL flag. 1 = ASM initialization processed PLPA in quick start mode (not CLPA), 0 = ASM initialization processed PLPA in cold start mode (CLPA), or was forced to convert to cold start mode
		.... .1..		ASMWARM	Warm start IPL flag. 1 = ASM initialization processed VIO data sets in warm start mode (not CVIO), 0 = ASM initialization processed VIO data sets in CVIO mode, or was forced to convert a warm start request to CVIO
		.... ..1.		ASMSPILL	VIO overflow flag. 1 = Message issued indicating VIO spilled to non-VIO data sets, 0 = No message issued yet for VIO spill
		1		ASMNOWM	No warm start flag. 1 = Message issued indicating a VIO journaling data set failure, future warm starts will fail, 0 = no warm start failure message yet
2	(2)	CHARACTER	2	ASMRSV2	Reserved
4	(4)	ADDRESS	4	ASMTDVT	DEVTAB address during NIP
8	(8)	ADDRESS	4	ASMPART	Address of paging activity reference table - PART
12	(C)	ADDRESS	4	ASMGOS	Address of ILRGOS, used by ILRCALL macro. AMODE in high order bit
16	(10)	ADDRESS	4	ASMTRPAG	Address of ILRTRPAG, entry point in ILRPOS, used by ILRCALL macro. AMODE in high order bit

Table 68. Structure ASMVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	ADDRESS	4	ASMEREC	Address of bad slot error record maintained by ILRCMP
24	(18)	ADDRESS	4	ASMMSGBF	Address of message buffer used by ASM message routine
28	(1C)	UNSIGNED	1	ASMCOMDS	Index into the PART to the page data set to receive PLPA and common area writes
29	(1D)	BITSTRING	1	ASMSECP	NOP flags to be copied into the NOP CCW of each channel program
30	(1E)	BITSTRING	1	ASMFLAG3	ASM global flag field 3
		1...		ASMWTO5E	1 = ILR005E was issued during this IPL. 0 = ILR005E has not been issued during this IPL.
		.1..		ASMCINIT	1 = Post-MSI cache initialization has been completed
		..1.		ASMPREFERSCM	1 = For testing purposes - Make SCM always look fastest
		...1		ASMPREFERDASD	1 = For testing purposes - Make SCM always look slowest
		.... 1...		ASMSCMWRITESPROHIBITED	1 = Writes are temporarily prohibited.
		.... .1..		ASMSCMRBSCHEDULED	1 = SCMRB scheduled
		11		*	Unused
31	(1F)	CHARACTER	1	ASMRSV5	Reserved
32	(20)	ADDRESS	4	ASMDSECB	Dataset ENQ ECB
36	(24)	SIGNED	4	ASMGLLOK	ASM global lock word
The following section of the ASMVT is used primarily by the I/O control modules of ASM.					
40	(28)	SIGNED	4	ASMIORQR	Count of I/O requests (AIAs) received by I/O control, this does not include LSQA swap AIAs
44	(2C)	SIGNED	4	ASMIORQC	Count of I/O requests (AIAs) completed and returned to RSM
48	(30)	SIGNED	4	ASMSWRQR	Count of LSQA swap AIAs received by I/O control
52	(34)	SIGNED	4	ASMSWRQC	Count of LSQA swap AIAs completed and returned to RSM
56	(38)	ADDRESS	4	ASMPATOF	Address of ILRPATOF
60	(3C)	SIGNED	4	ASMOFFLN	Count of the number frames that will go offline after I/O completion
64	(40)	ADDRESS	4	ASMPCCWQ	Queue of available PCCWs
68	(44)	ADDRESS	4	ASMMIGRT	Address of ILRMIGRT
72	(48)	SIGNED	4	ASMPCCWN	Number of PCCWs built by RIM
76	(4C)	ADDRESS	4	ASMCVRTV	Address of ILRCVRTV
80	(50)	ADDRESS	4	ASMSCMMGPTR	
84	(54)	SIGNED	4	ASM0PCCW	Count of times no PCCWs were available
88	(58)	ADDRESS	4	ASMPSRB	Address of SRB used to schedule ILREDRV from ILRPAGCM
92	(5C)	ADDRESS	4	ASMSWSRB	Address of SRB used to schedule ILRSWLIO from ILRSLSQA

Table 68. Structure ASMVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
96	(60)	ADDRESS	4	ASMPGSRB	Address of SRB used to schedule ILRCMSRB from recovery
100	(64)	ADDRESS	4	ASMRSRB	Address of SRB used to pass error AIAs to RSM
104	(68)	ADDRESS	4	ASMPTERM	Address of ILRPREAD I/O termination exit
108	(6C)	ADDRESS	4	ASMFRSRB	ILRFRSRB SRB address
The following section of the ASMVT is used for page data set slot accounting.					
112	(70)	UNSIGNED	4	ASMSLOTS	Count of total local slots in all open local page data sets
116	(74)	UNSIGNED	4	ASMVSC	Count of total local slots allocated to VIO private area pages
120	(78)	UNSIGNED	4	ASMNVSC	Count of total local slots allocated to non-VIO private area pages
124	(7C)	UNSIGNED	4	ASMERRS	Count of bad slots found on local data sets during normal operations
The following section of the ASMVT is used primarily by the VIO controller and the group operator modules.					
128	(80)	ADDRESS	4	ASMFRSEP	ILRFRSRB entry point
132	(84)	ADDRESS	4	ASMLGVT	Address of the logical group vector table
136	(88)	ADDRESS	4	ASMSTGXA	Address of the ACB for VIO journaling data set
140	(8C)	SIGNED	4	ASMCINV	Number of control intervals in the VIO journaling data set
144	(90)	CHARACTER	8	ASMLSAI	ASM storage locator 'S' symbol generator, last 'S' symbol assigned
144	(90)	SIGNED	4	ASMLSAIL	Low word of 'S' symbol generator
148	(94)	SIGNED	4	ASMLSAIH	High word of 'S' symbol generator
152	(98)	CHARACTER	8	ASMGOSQS	Double word reference for ILRGOS work queues
152	(98)	SIGNED	4	ASMGOSWT	Queue of elements for ACEs waiting for VSAM buffer to become available, used by ILRGOS
156	(9C)	SIGNED	4	ASMGOSWK	FIFO work queue of elements for ACEs, used by ILRGOS to start operations waiting for VSAM buffers
160	(A0)	SIGNED	4	ASMREQCT	Number of simultaneous requests that can be made to VSAM, this number (minus one for ILRTMRLG's use) corresponds to the string number parameter on the open for the VIO journaling data set
164	(A4)	ADDRESS	4	ASMTCBPT	Address of ASM TCB

Table 68. Structure ASMVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
164	(A4)	ADDRESS	4	ASMDSTPT	DSTBL address. Used by ILRASRIM and ILRASRM1 before the ASM TCB is attached.
168	(A8)	SIGNED	4	ASMTMECB	ECB used by ILRTMRLG to wait for work, this ECB is posted by ILRRLG
172	(AC)	SIGNED	4	ASMRLGRQ	Request queue for ILRTMRLG consisting of ACEs queued by ILRRLG, queue is serialized by compare and swap logic
176	(B0)	SIGNED	4	ASMRLGWQ	Work queue for ILRTMRLG to hold ACEs moved from request queues
180	(B4)	ADDRESS	4	ASMTASCB	Address of ASCB for address space in which ILRTMRLG is running
184	(B8)	SIGNED	4	ASMVSAMW	Queue of elements for ACEs waiting for a particular record on the VIO journaling data set to become available, used by ILRVSAMI
188	(BC)	CHARACTER	4	ASMVIO	VIO global flags. Updated by compare and swap
188	(BC)	BITSTRING	1	ASMVIOF1	First flag byte
		1...		ASMDVIO	Global switch for directed VIO function. 1 = Directed VIO operational, 0 = Directed VIO function off. Updated by SRM.
		.1..		ASMNFVIO	VIO conversion free flag. 1 = Do not free entry after VIO conversion, 0 = Free entry after VIO conversion
		..1.		ASMTRPLF	When set, indicates that TERMRPL for VSAM resources has failed. Later processing cannot count on those resources being available.
		...1		ASMVIOJ	1 = VIO journaling is active 0 = Installation has indicated that VIO journaling not needed via VIODSN parameter or by response to message IEA377D during IPL. Is not reset if dynamic allocation or OPEN of the dataset fails (ASMSTGXA will be set to zero, instead).
		 1111		ASMRSV8	Reserved
189	(BD)	CHARACTER	3	ASMRSV9	Reserved
The following section of the ASMVT contains entry point addresses of those ASM routines or subroutines that are called by more than one module, or that reside in LPA. LPA routine entry points are determined at task mode initialization.					
192	(C0)	ADDRESS	4	ASMSWEP	Address of ILRSWLIO, LSQA driver entry point of ILRIODRV
196	(C4)	ADDRESS	4	ASMPFRSL	Address of ILRFRSL1, entry point of ILRFRSLT
200	(C8)	ADDRESS	4	*	Reserved

Table 68. Structure ASMVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
204	(CC)	ADDRESS	4	ASMPEDRV	Address of ILREDRV, redrive entry point of ILRIODRV
208	(D0)	ADDRESS	4	*	Reserved
212	(D4)	ADDRESS	4	ASMPSRMT	Address of ILRPSRMT, (ILREDRV, ILRSWLIO, and resume RMTR)
216	(D8)	ADDRESS	4	ASMPSRBC	Address of ILRSRBC
220	(DC)	ADDRESS	4	ASMVRMTR	Address of ILRSRBRM, entry point of ILRSRBC for VIO RMTR
224	(E0)	ADDRESS	4	ASMPEX	Address of ILRPEX
228	(E4)	ADDRESS	4	ASMPCMPD	Address of ILRCMPDI, entry point of ILRCMP. AMODE in high order bit.
232	(E8)	ADDRESS	4	ASMPCMPN	Address of ILRCMPNE, entry point of ILRCMP. AMODE in high order bit.
236	(EC)	ADDRESS	4	ASMPCMPA	Address of ILRCMPAE, entry point of ILRCMP. AMODE in high order bit.
240	(F0)	ADDRESS	4	ASMPCMP	Address of ILRCMP. AMODE in high order bit
244	(F4)	ADDRESS	4	ASMPSAV	Address of ILRSAV
248	(F8)	ADDRESS	4	ASMPACT	Address of ILRACT
252	(FC)	ADDRESS	4	ASMPRLG	Address of ILRRLG
256	(100)	ADDRESS	4	ASMPFRLG	Address of ILRFRELG, entry point of ILRGOS
260	(104)	ADDRESS	4	ASMPMSG0	Address of ILRMSG00
264	(108)	ADDRESS	4	ASMPMSGS	Address of ILRMSGSP, entry point of ILRMSG00
268	(10C)	ADDRESS	4	ASMPVACQ	Address of ILRVACQ2, entry point of ILRFRR01
272	(110)	ADDRESS	4	ASMPIOFR	Address of ILRIOFRR, I/O control recovery routine
276	(114)	ADDRESS	4	ASMPVACE	Address of ILRVACE, entry point of ILRFRR01
280	(118)	ADDRESS	4	ASMPCMRB	Address of ILRCMSRB, routine to handle completed I/O from recovery
284	(11C)	ADDRESS	4	ASMPRSRB	Address of ILRRSMRB, SRB routine used to pass error AIAs to IARGIOCM
288	(120)	ADDRESS	4	ASMPFRSU	Address of ILRFRSLU, entry point of ILRFRSLT for unlocked routines
The following section of the ASMVT is used by PAGEDEL processing.					
292	(124)	ADDRESS	4	ASMPDAIA	Queue header for migration AIAs
296	(128)	CHARACTER	4	ASMPDECB	Migration ECB
300	(12C)	ADDRESS	4	ASMXARTE	Address of replacement XARTE
304	(130)	SIGNED	2	ASMPDCNT	Count of outstanding migration I/O requests
306	(132)	UNSIGNED	2	ASMXSPCW	Count of excess PCCWs
308	(134)	UNSIGNED	2	ASMXSSCW	Count of excess SCCWs
310	(136)	CHARACTER	2	ASMRSV10	Reserved

Table 68. Structure ASMVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		The following section of the ASMVT contains the pool controllers that are used by the GMA macro to obtain and release cells for those routines requiring one of these control blocks. The pool controller mapping appears at the end of the ASMVT.			
312	(138)	CHARACTER	16	ASMBWKPC	320 byte workarea pool controller
328	(148)	CHARACTER	16	ASMSWKPC	576 byte workarea pool controller, used exclusively by ILRVSAMI
344	(158)	CHARACTER	24	ASMACEPC	ACE pool controller
		The following section of the ASMVT contains work-save areas used by the ASM routines that run with the ASMGL lock.			
368	(170)	CHARACTER	160	ASMWKSA2	Used by ILRPOS
528	(210)	CHARACTER	80	ASMWKSA3	Used by ILRFRSLT
608	(260)	CHARACTER	160	ASMWKSAR	Used by ILRDRV01
768	(300)	CHARACTER	80	ASMWKSA6	Used by ILRVIOCM
848	(350)	CHARACTER	80	ASMWKSA7	Used by ILRPEX and ILRMSG00
928	(3A0)	CHARACTER	72	ASMSAVE	Standard register save area used by ASM when calling other routines
		The following section contains PAGEDEL tuning parameters.			
1000	(3E8)	BITSTRING	4	ASMWTTM1	Wait interval for aging pages off of read-only data sets
1004	(3EC)	BITSTRING	4	ASMWTTM2	Wait interval for quiescing data set I/O activity
1008	(3F0)	SIGNED	4	ASMCONT1	Contingency factor for deciding whether or not to make all data sets read-only
1012	(3F4)	SIGNED	4	ASMCONT2	Contingency factor for deciding whether or not to begin migrating a particular data set
1016	(3F8)	ADDRESS	4	ASMCVRTP	Address of ILRCVRTP
1020	(3FC)	ADDRESS	4	*	Reserved
1024	(400)	CHARACTER	80	ASMWKSA5	Used by ILRSWAP and SWP01
1104	(450)	ADDRESS	4	ASMRDSNL	Replacement DSNLIST used by PAGEADD and PAGEDEL.
1108	(454)	SIGNED	4	ASMPDACT	Active/queued PAGEDEL count
		The following section contains SRM large job management counts			
1112	(458)	UNSIGNED	4	ASMNSWRR	Count of non-swap write requests (AIAs) received by I/O control. This does not include swap that spills to paging data sets, or migration I/O.
1116	(45C)	UNSIGNED	4	ASMNSWRC	Count of non-swap write requests (AIAs) completed and returned to RSM. This does not include swap that spills to paging data sets, or migration I/O.
1120	(460)	CHARACTER	20	ASMWKSA1	Work-save area used by ILRPOS

Table 68. Structure ASMVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1140	(474)	UNSIGNED	4	ASMVIOMX	Largest VIO dataset which ASM is prepared to support (i.e. ASM's limit on VIO dataset), this field is in pages and zero-origin. Note: this limitation can be known by DADSM and proper actions can be taken in the allocation time.
1144	(478)	ADDRESS	4	ASMPCMPP	Address of ILRCMPCI, entry point of ILRCMP. AMODE in high order bit.
1148	(47C)	ADDRESS	4	ASMUPDAC	Address of ILRUPDAC, entry point in ILRFRSLT.
1152	(480)	ADDRESS	4	ASMCTBDV	Address of ILRCTBDV
1156	(484)	ADDRESS	4	ASMVDSN	Address of VIO journaling data set name in the data set name list. This is the list of page/swap data set names built during NIP. When VIO journaling is active, its data set name is added to the data set name list.
The following section contains page dataset protection data					
1160	(488)	BITSTRING	8	ASMIPLTM	Time that first page dataset was processed during IPL - this value must not change for the life of IPL
1168	(490)	CHARACTER	52	ASMLSYSI	System token for last dataset that protection was bypassed for during IPL
1220	(4C4)	SIGNED	4	ASMPPRCT	Count of ILRPPROT retries
Data related to the input I/O PCCW queue					
1224	(4C8)	ADDRESS	4	ASMIPCCW	Queue of PCCWs reserved for input I/O
1228	(4CC)	SIGNED	4	ASM0IPCW	Number of times no PCCWs were available on ASMIPCCW
Misc fields					
1232	(4D0)	SIGNED	2	ASMPGTHRESH	Usage threshold
1234	(4D2)	CHARACTER	2	ASMRSV4	Reserved
1236	(4D4)	ADDRESS	4	ASMXPTR	Pointer to ASMVX (ILRASMVX)
1240	(4D8)	UNSIGNED	4	ASMACTRQ	Count of active I/O requests
1244	(4DC)	CHARACTER	36	ASMRSV3	Reserved

Table 69. Structure ASM5WKSV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1024	(400)	STRUCTURE	80	ASM5WKSV	Mapping of work-save area used by ILRSWAP and SWP01
1024	(400)	CHARACTER	52	ASM5RGSV	Input register save area
1024	(400)	ADDRESS	4	ASM5RG2	Save area for reg 2
1028	(404)	CHARACTER	48	*	Save area for reg 3 to reg 14
1076	(434)	ADDRESS	4	ASM5SR14	Save area for reg 14

Table 69. Structure ASM5WKSV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1080	(438)	SIGNED	4	ASM5GCTR	Counter for grouping AIAs
1084	(43C)	SIGNED	4	ASM5SWCT	Count of LSQA AIAs to be swapped
1088	(440)	ADDRESS	4	ASM5AIA	Temporary save area for AIA pointer
1092	(444)	BITSTRING	1	ASM5FLGS	Internal flags
1093	(445)	BITSTRING	1	ASM5CHCK	SARTE status check
1094	(446)	SIGNED	2	ASM5NDEX	Index for looping
1096	(448)	ADDRESS	4	ASM5R14S	Secondary procedure save of register 14
1100	(44C)	SIGNED	2	ASM5RC	Return code
1102	(44E)	CHARACTER	2	ASM5RSVD	Reserved

Table 70. Structure ASMPOOLS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	24	ASMPOOLS	Cell pool controller mapping
0	(0)	CHARACTER	4	ASMCPID	Cell pool identifier
4	(4)	SIGNED	2	ASMCPSIZ	Size of each cell in pool
6	(6)	SIGNED	2	ASMCPEXT	Number of cells in pool extension
8	(8)	CHARACTER	8	ASMCPAVQ	Available cell pool control
8	(8)	ADDRESS	4	ASMCPAVL	Address of first available cell in pool
12	(C)	SIGNED	4	ASMCPCNT	Count for synchronization of this pool, decremented when removing a cell from pool, unchanged when placing a cell back in the pool
16	(10)	CHARACTER	8	ASMCPRSQ	ACE pool only, ACE reserve cell pool control
16	(10)	SIGNED	4	ASMCPTAK	ACE pool only, number of cells taken from reserve queue
20	(14)	ADDRESS	4	ASMCPRES	ACE pool only, reserve queue of ACE cells used only when ACE required by routines running with the ASMGL lock

Table 71. Structure ASMDOPTS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	1	ASMDOPTS	
		1...		ASMDFULL	Full report requested or defaulted to.
		.1..		ASMDSUMM	Summary report requested
		..1.		ASMDVIOO	VIO report requested
		...1		ASMDPERR	Parse service error
		 1111		*	Reserved

ASMVT mapping

Table 72. Constants for ASMVT

Len	Type	Value	Name	Description
	Health checker entry codes.			
4	DECIMAL	1	ASMHC_NUMLOCALSCHECK	
4	DECIMAL	2	ASMHC_PAGEADD	
4	DECIMAL	3	ASMHC_PLPA_COMMON_SIZE	
4	DECIMAL	4	ASMHC_LOCALSLOTUSAGE	
4	DECIMAL	5	ASMHC_PLPA_COMMON_USAGE	
	Constant for maximum number of aux slots. This constant is based on the maximum number of local page data sets (253), and the maximum number of slots per data set (16777215 = 'FFFFFF'x).			
4	DECIMAL	-50331901	ASMMAXSLOTS	
6	CHARACTER	*NONE*	KASMNOPAGEDATASET	Used in parsing the PAGE= parm
4	NUMB HEX	7FFFFBAD	KASMUBSVSA	
	Misc Constants			
4	DECIMAL	1	KASM_SCMRB_RESUMEACCESS	SCMRB - access resumed
4	DECIMAL	2	KASM_SCMRB_ACCESSPROHIBITED	SCMRB - access prohibited

Table 73. Cross Reference for ASMVT

Name	Offset	Hex Tag
ASMACEPC	158	
ASMACTRQ	4D8	
ASMBWKPC	138	
ASMCINIT	1E	40
ASMCINV	8C	
ASMCOMDS	1C	
ASMCOMMF	0	02
ASMCOMMONDSEXISTS	0	80
ASMCONT1	3F0	
ASMCONT2	3F4	
ASMCPAVL	8	
ASMCPAVQ	8	
ASMCPCNT	C	
ASMCPEXT	6	
ASMCPID	0	
ASMCPRES	14	
ASMCPRSQ	10	
ASMCPSIZ	4	
ASMCPTAK	10	
ASMCTBDV	480	
ASMCVRTP	3F8	
ASMCVRTV	4C	
ASMDFULL	0	80
ASMDOPTS	0	
ASMDPERR	0	10
ASMDSECB	20	
ASMDSRO	1	80
ASMDSTPT	A4	
ASMDSUMM	0	40

Table 73. Cross Reference for ASMVT (continued)

Name	Offset	Hex Tag
ASMDVIO	BC	80
ASMDVIOO	0	20
ASMEREC	14	
ASMERRS	7C	
ASMFLAG1	0	
ASMFLAG2	1	
ASMFLAG3	1E	
ASMFRSEP	80	
ASMFRSRB	6C	
ASMGLLOK	24	
ASMGOS	C	
ASMGOSQS	98	
ASMGOSWK	9C	
ASMGOSWT	98	
ASMIORQC	2C	
ASMIORQR	28	
ASMIPCCW	4C8	
ASMIPLTM	488	
ASMLGVT	84	
ASMLSAI	90	
ASMLSAIH	94	
ASMLSAIL	90	
ASMLSYSI	490	
ASMMIGRT	44	
ASMMSGBF	18	
ASMNFVIO	BC	40
ASMNOLCL	0	20
ASMNOSAV	1	40
ASMNOTMR	1	20
ASMNOTPT	1	10
ASMNOWM	1	01
ASMNPRIM	0	40
ASMNSWRC	45C	
ASMNSWRR	458	
ASMNVSC	78	
ASMOFFLN	3C	
ASMPACT	F8	
ASMPART	8	
ASMPATOF	38	
ASMPCCWN	48	
ASMPCCWQ	40	
ASMPCMP	F0	
ASMPCMPA	EC	
ASMPCMPD	E4	
ASMPCMPN	E8	
ASMPCMPP	478	
ASMPCMRB	118	
ASMPDACT	454	
ASMPDAIA	124	

Table 73. Cross Reference for ASMVT (continued)

Name	Offset	Hex Tag
ASMPDCNT	130	
ASMPDECB	128	
ASMPEDRV	CC	
ASMPEX	E0	
ASMPFRLG	100	
ASMPFRSL	C4	
ASMPFRSU	120	
ASMPGDEL	0	10
ASMPGSRB	60	
ASMPGTHRESH	4D0	
ASMPIOFR	110	
ASMPLPADSEXISTS	0	08
ASMPLPAF	0	04
ASMPLPAS	0	01
ASMPMSGS	108	
ASMPMSG0	104	
ASMPOOLS	0	
ASMPPRCT	4C4	
ASMPREFERDASD	1E	10
ASMPREFERSCM	1E	20
ASMPRLG	FC	
ASMPRSRB	11C	
ASMPSAV	F4	
ASMPSRB	58	
ASMPSRBC	D8	
ASMPSRMT	D4	
ASMPTERM	68	
ASMPVACE	114	
ASMPVACQ	10C	
ASMQUICK	1	08
ASMRDSNL	450	
ASMREQCT	A0	
ASMRLGRQ	AC	
ASMRLGWQ	B0	
ASMRSRB	64	
ASMRSV10	136	
ASMRSV2	2	
ASMRSV3	4DC	
ASMRSV4	4D2	
ASMRSV5	1F	
ASMRSV8	BC	0F
ASMRSV9	BD	
ASMSAVE	3A0	
ASMSCMMGPTR	50	
ASMSCMRBSCHEDULED	1E	04
ASMSCMWRITESPROHIBITED	1E	08
ASMSECP	1D	
ASMSLOTS	70	
ASMSPILL	1	02

Table 73. Cross Reference for ASMVT (continued)

Name	Offset	Hex Tag
ASMSTGXA	88	
ASMSWEP	C0	
ASMSWKPC	148	
ASMSWRQC	34	
ASMSWRQR	30	
ASMSWSRB	5C	
ASMTASCB	B4	
ASMTCBPT	A4	
ASMTDVT	4	
ASMTMECB	A8	
ASMTRPAG	10	
ASMTRPLF	BC	20
ASMUPDAC	47C	
ASMVDSN	484	
ASMVIO	BC	
ASMVIOF1	BC	
ASMVIOJ	BC	10
ASMVIOMX	474	
ASMVRMTR	DC	
ASMVSAMW	B8	
ASMVSC	74	
ASMVT	0	
ASMWARM	1	04
ASMWKSAR	260	
ASMWKSA1	460	
ASMWKSA2	170	
ASMWKSA3	210	
ASMWKSA5	400	
ASMWKSA6	300	
ASMWKSA7	350	
ASMWTO5E	1E	80
ASMWTTM1	3E8	
ASMWTTM2	3EC	
ASMXARTE	12C	
ASMXPTR	4D4	
ASMXSPCW	132	
ASMXSSCW	134	
ASM0IPCW	4CC	
ASM0PCCW	54	
ASM5AIA	440	
ASM5CHCK	445	
ASM5FLGS	444	
ASM5GCTR	438	
ASM5NDEX	446	
ASM5RC	44C	
ASM5RGSV	400	
ASM5RG2	400	
ASM5RSVD	44E	
ASM5R14S	448	

Table 73. Cross Reference for ASMVT (continued)

Name	Offset	Hex Tag
ASM5SR14	434	
ASM5SWCT	43C	
ASM5WKSV	400	

Chapter 20. ASPCT Information

ASPCT Heading Information

Common Name: ASM Page Correspondence Table
Macro ID: ILRASPCT
DSECT Name: ASPCT
Owning Component: Auxiliary Storage Manager (SC1CW)
Eye-Catcher ID: ASPC
Offset: 0
Length: 4
Storage Attributes: Virtual Storage: YES
Subpool: 255
Key: 0
Data Space: NO
Residency: Above 16 megabytes
Size: Base segment =
1600 bytes + number of LPME and ASST extensions added at 1600 bytes each
Created by: ILRGOS
Pointed to by: LGEASPCT field of the LGE data area
Serialization: ASM class lock of the owning address space when paging operations are being performed.
When a group operation is in progreee, ASPCT serialization is maintained by the ACE for the group operation that is on the LGE process queue. The LGE process queue insures that page and group operations are not performed in parallel for a given logical group and its ASPCT.
Function: Describes portions of a logical group where pages have been written to auxiliary storage and contains additional information essential to a logical group.

ASPCT mapping

Table 74. Structure ASPCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	1600	ASPCT	
0	(0)	CHARACTER	48	ASPHDR	Header fields
0	(0)	CHARACTER	4	ASPIDENT	Base ASPCT identifier 'ASPC'
4	(4)	SIGNED	4	ASPLGID	Logical group identifier for this ASPCT
8	(8)	CHARACTER	12	ASPBKEY	VSAM imbedded key for SYS1.STGINDEX
8	(8)	CHARACTER	8	ASPSSYM	Storage locator 'S' symbol. Contents valid only after an ASPCT has been saved at least once.
16	(10)	SIGNED	4	*	Extension number - zero in base ASPCT
20	(14)	ADDRESS	4	ASPASCB	Address of ASCB for address space owning this LG

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Table 74. Structure ASPCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	ADDRESS	4	ASPLGE	Address of LGE for LG this ASPCT represents.
28	(1C)	BITSTRING	1	ASPFLAG	ASPCT flags
		1...		ASPSAVED	Saved flag. 1=ASPCT has been saved at least once, 0=ASPCT has not been saved
		.1..		ASPSAVRP	Released after save flag. 1=at least one saved page has been rewritten under new LSID since the last save of this ASPCT, 0=no released after save pages
		..11 1111		*	Reserved
29	(1D)	UNSIGNED	1	ASPAEXCT	Total number of ASST extensions built for this ASPCT
30	(1E)	SIGNED	2	ASPXEXCT	Total number of ASSX extensions built for this ASPCT
32	(20)	UNSIGNED	4	ASPMAXPN	Maximum RPN specified at Assign LGN time
36	(24)	CHARACTER	4	ASPRSV1	Reserved
40	(28)	SIGNED	4	ASPSAVCT	Number of slots (LSIDs) saved by save operator for this LG. This count is only valid in the saved copy of the ASPCT
44	(2C)	SIGNED	4	ASPLEXCT	Number of LPME extensions built for this ASPCT
48	(30)	ADDRESS	4	ASPASSTP(4)	Table of 4 pointers to ASST extensions
64	(40)	CHARACTER	6	ASPLPMES(256)	LPME section
1600	(640)	CHARACTER	0	*	

Table 75. Structure ASPEXTSN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	1600	ASPEXTSN	
0	(0)	CHARACTER	64	ASPEHDR	Header fields
0	(0)	CHARACTER	4	ASPEIDNT	ASPCT extension identifier. 'ASST' indicates ASST extension, 'ASSX' indicates ASSX extension, 'LPME' indicates LPME extension.
4	(4)	CHARACTER	4	*	Reserved
8	(8)	CHARACTER	12	ASPEXKEY	Full VSAM key for this ASPCT extension
8	(8)	CHARACTER	8	ASPESSYM	Storage locator symbol. This value corresponds to and will be equal to the 'S' symbol in base ASPCT
16	(10)	SIGNED	4	ASPEXTNM	Extension number of this extension

Table 75. Structure ASPEXTSN (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	ADDRESS	1	ASPASSTN	ASST extension index for this extension. If extension is an ASST, this number indicates ASSTP entry in base ASPCT containing address of this ASST. If extension is an ASSX extension, this number indicates the ASST containing the address of this ASSX extension. If extension is an LPME extension, this number indicates the ASST containing the address of the ASSX extension containing the address of this LPME extension.
21	(15)	CHARACTER	1	*	Reserved
22	(16)	SIGNED	2	ASPASSXN	ASSX extension index for this extension. This field is not used for ASST extension. For ASSX extension, this number identifies the entry in the ASST identified by ASSTN that contains the pointer to this ASSX extension. For LPME extension, this number identifies the entry in the ASST identified by ASSTN that contains the pointer to the ASSX extension containing the address of this LPME extension.
24	(18)	SIGNED	2	ASPLPMEN	LPME extension index for this extension. This field is not used for ASST or ASSX extension. For LPME extension, this number identifies the entry in the ASSX identified by ASSXN which contains the pointer to this LPME extension.
26	(1A)	CHARACTER	38	*	Reserved
64	(40)	CHARACTER	6	ASPSECTA(256)	Table of 256 ASST or ASSX entries. Each entry is mapped by the ASPASST or ASPASSX structure declared below.
1600	(640)	CHARACTER	0	*	

Table 76. Structure ASPASST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
64	(40)	STRUCTURE	*	ASPASST	ASST mapping
64	(40)	CHARACTER	6	*(*)	6-byte ASST entry
64	(40)	CHARACTER	2	*	2-byte spacer
66	(42)	ADDRESS	4	ASPASSTE	Address Space Sector Table entry

ASPCT mapping

Table 77. Structure ASPASSX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
64	(40)	STRUCTURE	*	ASPASSX	ASSX mapping
64	(40)	CHARACTER	6	*(*)	6-byte ASSX entry
64	(40)	CHARACTER	2	*	2-byte spacer
66	(42)	ADDRESS	4	ASPASSXE	Address Space Sector Table entry

Table 78. Structure ASPLPME

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	6	ASPLPME	Logical page map entry. This describes each 6-byte area in a LPME section.
0	(0)	BITSTRING	2	ASPLPFLG	LPME flags
		1...		ASPLVALD	LSID valid flag. 1=page valid on auxiliary storage, 0=no valid LSID in LPME
		.1..		ASPLSAVE	Saved flag. 1=this page has slot saved 0=page not saved
		..1.		ASPLOPIN	Process in operation flag. 1=an operation for page has been started and is not complete, 0=no operation in process
		...1		ASPLIOER	Read I/O error flag. 1=permanent read I/O error has occurred for page 0=no I/O error for page
		.... 1...		ASPLSVRP	Released after save flag. 1=page has been written since last save, using a different LSID 0=page has not been written since last save
		.... .1..		ASPLSTER	Storage error flag. 1 = storage error occurred for this page
		.... ..1.		ASPLES	Page location flag. 1 = page is in real cache, LPME contains a token. 0 = page is on aux, LPME contains an LSID
0	(0)	BITSTRING	1	*	Reserved
2	(2)	SIGNED	4	ASPLVRCTK	Real cache token
2	(2)	CHARACTER	4	ASPVLSID	VIO logical slot identifier
2	(2)	UNSIGNED	1	ASPPRTNN	PART number. Index into PART, identifying the page data set on which this page resides
3	(3)	UNSIGNED	3	ASPSLOT	Relative slot number identifying slot within page data set

Table 79. Constants for ASPCT

Len	Type	Value	Name	Description
2	DECIMAL	256	ASPNLPME	Number LPMEs in base or extension
2	DECIMAL	256	ASPNASSX	Number of ASSX in extension
2	DECIMAL	256	ASPNASST	Number of ASST in extension
2	DECIMAL	4	ASPNASPCT	Number of ASST extensions anchored in the base

Table 80. Cross Reference for ASPCT

Name	Offset	Hex Tag
ASPAEXCT	1D	
ASPASCB	14	
ASPASST	40	
ASPASSTE	42	
ASPASSTN	14	
ASPASSTP	30	
ASPASSX	40	
ASPASSXE	42	
ASPASSXN	16	
ASPBKEY	8	
ASPCT	0	
ASPEHDR	0	
ASPEIDNT	0	
ASPESSYM	8	
ASPEXKEY	8	
ASPEXTNM	10	
ASPEXTSN	0	
ASPFLAG	1C	
ASPHDR	0	
ASPIDENT	0	
ASPLES	0	02
ASPLEXCT	2C	
ASPLGE	18	
ASPLGID	4	
ASPLIOER	0	10
ASPLOPIN	0	20
ASPLPFLG	0	
ASPLPME	0	
ASPLPMEN	18	
ASPLPMES	40	
ASPLSAVE	0	40
ASPLSTER	0	04
ASPLSVRP	0	08
ASPLVALD	0	80
ASPLVRCTK	2	
ASPMAXPN	20	
ASPPRTNN	2	
ASPRSV1	24	
ASPSAVCT	28	
ASPSAVED	1C	80
ASPSAVRP	1C	40
ASPSECTA	40	
ASPSLOT	3	
ASPSSYM	8	
ASPVLSID	2	
ASPXEXCT	1E	

Chapter 21. ASREPL Information

ASREPL Programming Interface Information

ASREPL is a programming interface.

ASREPL Heading Information

Common Name:	Authorization Exit Parameter List
Macro ID:	ASREPL
DSECT Name:	EPL
Owning Component:	Symptom record services (SCASR)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: Any Key: 0
Size:	40 bytes
Created by:	ASRSERVP, Symptom Record Macro Service Routine
Pointed to by:	The EPL is passed as a formal parameter
Serialization:	None
Function:	The ASREPL macro defines the parameter list passed by SYMREC to ASREXIT, the SYMREC Authorization Exit.

ASREPL mapping

Table 81. Structure EPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EPL	- DSECT NAME
0	(0)	CHARACTER	8	EPLPNAME	PROGRAM NAME
8	(8)	CHARACTER	8	EPLJNAME	JOB STEP NAME
16	(10)	BITSTRING	4	EPLSRPTR	SYMPTOM RECORD ADDRESS
20	(14)	BITSTRING	4	EPLPATTR	SYMREC CALLER'S ATTRIBUTES
		1...		EPLAPFL	"X'80'" PROGRAM ORIGINATED FROM AN APF AUTHORIZED LIBRARY
24	(18)	BITSTRING	4	EPLRETC	RETURN CODE FROM EXIT ROUTINE
28	(1C)	CHARACTER	12	EPL00028	RESERVED

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Chapter 22. ASSB Information

ASSB Programming Interface Information

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

- ASSB_ASST_TIME_ON_CP
- ASSB_CMS_LockInst_Addr
- ASSB_ENCT
- ASSB_ENCT_PREZOS11
- ASSB_ENQDEQ_CMS_LockInst_Addr
- ASSB_IFA_ENCT
- ASSB_IFA_ENCT_PREZOS11
- ASSB_IFA_ON_CP_ENCT
- ASSB_IFA_PHTM
- ASSB_LATCH_CMS_LockInst_Addr
- ASSB_Local_LockInst_Addr
- ASSB_SMFCMS_LockInst_Addr
- ASSB_SRB_TIME_ON_CP
- ASSB_SUP_ON_CP_ENCT
- ASSB_TASK_TIME_ON_CP
- ASSB_TIME_IFA_ON_CP
- ASSB_TIME_ON_IFA
- ASSB_TIME_ON_zIIP
- ASSB_TIME_zIIP_ON_CP
- ASSB_zIIP_ENCT
- ASSB_zIIP_PHTM
- ASSB_zIIP_PHTM_BASE
- ASSBASST
- ASSBDLCB
- ASSBISQN
- ASSBJBNI
- ASSBJBNS
- ASSBLDAX
- ASSBMQMA
- ASSBOASB
- ASSBOSDB
- ASSBPHTM
- ASSBPHTM_BASE
- ASSBSTKN
- ASSBTASB
- ASSBVAB
- ASSBVFAT

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ASSB Heading Information

Common Name: Address Space Secondary Block
Macro ID: IHAASSB
DSECT Name: ASSB
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: ASSB
Offset: 0
Length: 4
Storage Attributes: Subpool: 245
Key: 0
Residency: Above 16M line
Size: OFFSET OF ASSBEND MINUS THE OFFSET OF ASSB
Created by: IEAMSWCB
IEAVEMRQ
Pointed to by: ASCBASSB
Serialization: Dependent on the specific field
Function: Allows address space related information to be maintained above 16 megabytes.

ASSB mapping

Table 82. Structure ASSB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ASSB	
0	(0)	DBL WORD	8	ASSBEGIN(0)	BEGINNING OF ASSB.
0	(0)	CHARACTER	4	ASSBASSB	ACRONYM IN EBCDIC - ASSB.
4	(4)	SIGNED	4	ASSBSMFL	Lock word for BMFLSD lock for TCTIOT serialization
8	(8)	DBL WORD	8	ASSBR008	RESERVED, WAS ASSBEVST
16	(10)	DBL WORD	8	ASSBR010	RESERVED, WAS ASSBVFAT
24	(18)	BITSTRING	1	ASSBXMF1	CROSS MEMORY FLAGS 1 OWNERSHIP: PC/AUTH SERIALIZATION: PC/AUTH ADDRESS SPACE LOCAL LOCK.
		1...		ASSBXEAX	"X'80'" ADDRESS SPACE OWNS ENTRY TABLES CONTAINING NON-ZERO EAX VALUES
25	(19)	BITSTRING	1	ASSBXMF2	CROSS MEMORY FLAGS 2 OWNERSHIP: PC/AUTH SERIALIZATION: PC/AUTH ADDRESS SPACE LOCAL LOCK.
26	(1A)	SIGNED	2	ASSBXMCC	CROSS MEMORY CONNECTIONS COUNT. NUMBER OF SPACE SWITCHING CONNECTIONS DONE TO THIS SPACE. OWNERSHIP: PC/AUTH SERIALIZATION: PC/AUTH ADDRESS SPACE LOCAL LOCK.
28	(1C)	ADDRESS	4	ASSBCBTP	POINTER TO IHAACBT SERIALIZATION: CMS LOCK
32	(20)	SIGNED	4	ASSBVSC	VIO SLOT ALLOCATED COUNT. OWNERSHIP: ASM. SERIALIZATION: ASM ADDRESS SPACE RELATED CLASS LOCK.
36	(24)	SIGNED	4	ASSBNVSC	NON-VIO SLOT ALLOCATED COUNT. OWNERSHIP: ASM. SERIALIZATION: ASMGL LOCK.

Table 82. Structure ASSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	SIGNED	4	ASSBASRR	ADDRESS SPACE RE-READS TO BE REPORTED IN THE TYPE 30 SMF RECORD.
44	(2C)	ADDRESS	4	ASSBDEXP	POINTER TO IHADEXP SERIALIZATION: LOCAL LOCK
48	(30)	DBL WORD	8	ASSBSTKN(0)	STOKEN. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: NONE. As with other ASCB/ASSB fields, serialization may be required when accessing something other than your address space's data.
48	(30)	SIGNED	4	ASSBSTW1	FIRST WORD OF ASSBSTKN.
		1111		ASSBSTYP	"X'F0'" FIRST 4 BITS REPRESENT STOKEN TYPE INFORMATION. ALWAYS ZERO FOR ADDRESS SPACE STOKENS.
52	(34)	SIGNED	4	ASSBISQN	Initial address space sequence number / instance number. It can be used with ASCBASID for the SSAIR instruction
56	(38)	ADDRESS	4	ASSBBPSA	IBMPM ANCHOR BLOCK. OWNERSHIP: IBM PRESENTATION MANAGER. SERIALIZATION: NONE.
60	(3C)	SIGNED	4	ASSBCSCT	CACHING FACILITY STOP COUNT OWNERSHIP: DFP SERIALIZATION: LOCAL LOCK
64	(40)	ADDRESS	4	ASSBBALV	VIRTUAL ADDRESS OF THE BASIC ACCESS LIST. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: LOCAL LOCK.
68	(44)	ADDRESS	4	ASSBBALD	BASIC ACCESS LIST DESIGNATOR. BITS 1-24 WITH SEVEN ZEROES APPENDED ON THE RIGHT FORM THE 31-BIT REAL ADDRESS OF THE BASIC ACCESS LIST. BITS 25-31 REPRESENT THE NUMBER OF 128 BYTE ACCESS LISTS, MINUS ONE. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: LOCAL LOCK.
72	(48)	ADDRESS	4	ASSBXMSE	ADDRESS OF XMSE FOR THIS ADDRESS SPACE
76	(4C)	SIGNED	4	ASSBTSQN	NEXT TTOKEN SEQUENCE NUMBER. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: LOCAL LOCK.
80	(50)	SIGNED	4	ASSBVCNT	COUNT OF CURRENT TASKS WITH VECTOR AFFINITY. SERIALIZED WITH SRM VIA COMPARE AND SWAP
84	(54)	ADDRESS	4	ASSBPALV	PASN ACCESS LIST VIRTUAL OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: LOCAL LOCK.
88	(58)	ADDRESS	4	ASSBASEI	ADDRESS OF ADDRESS SPACE RELATED INFORMATION. OWNERSHIP: ADDRESS SPACE SERVICES. SERIALIZATION: NONE.

Table 82. Structure ASSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
92	(5C)	ADDRESS	4	ASSBRMA	ADDRESS OF ADDRESS SPACE RELATED RESOURCE MANAGER CONTROL STRUCTURE. OWNERSHIP: RTM. SERIALIZATION: NONE.
96	(60)	DBL WORD	8	ASSBHST	CPU time for Hiperspace reads and writes. This CPU time is "normalized" to standard CP time. Ownership: RSM. Serialization: CSG
104	(68)	DBL WORD	8	ASSBIIPT	CPU time for I/O interrupt processing. This CPU time is "normalized" to standard CP time. Ownership: IOS. Serialization: CSG
112	(70)	SIGNED	4	ASSBANEC	ALESERV ADD WITH NO EAX COUNT. OWNERSHIP: PC/AUTH. SERIALIZATION: COMPARE AND SWAP (CS).
116	(74)	ADDRESS	4	ASSBSDOV	ADDRESS OF SHARED DATA OBJECT MANAGER VECTOR TABLE OWNERSHIP: VLF SERIALIZATION: CS
120	(78)	SIGNED	4	ASSBMCSO	NUMBER OF CONSOLE IDS ACTIVATED BY THIS ADDRESS SPACE. OWNERSHIP: CONSOLE SERVICES. SERIALIZATION: COMPARE AND SWAP.
		1...		ASSBEMCS_ACTIVATED	"X'80'" At least one EMCS console was activated by this address space.
124	(7C)	ADDRESS	4	ASSBDFAS	ADDRESS OF DFP=SMSX STRUCTURE FOR THE ADDRESS SPACE. OWNERSHIP: DFP. SERIALIZATION: NONE.
128	(80)	BITSTRING	4	ASSBFLGS(0)	ASSB FLAGS.
128	(80)	BITSTRING	1	ASSBFLG0	ASSB FLAG BYTE 0. SERIALIZATION: COMPARE AND SWAP.
		1...		ASSBBSDN	"X'80'" BYPASS SVC DUMP NON-DISPATCHABILITY. OWNERSHIP: SDUMP.
		.1..		ASSBCDSI	"X'40'" CDSI Resources Held or signalling resources held. Once set, must stay set. OWNERSHIP: XCF.
		..1.		ASSBPSCH	"X'20'" Parallel Detach SRB scheduled to this address space Ownership: RTM
		...1		ASSBPNSW	"X'10'" If on, this space is declared by the setter to be permanently non-swappable. The validity is not checked. System routines may rely on the space being non-swappable if the bit is on. Must be set by CS
		.... 1...		ASSBNOML	"X'08'" NoML used internally Ownership: RTM Must be set by CS
The following 3 bits are OWNERSHIP: SDUMP / and Must be set via C/S					

Table 82. Structure ASSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		ASSBSDUMPAS	"X'04'" SDUMP is dumping this address space
		.... ..1.		ASSBSDUMPND	"X'02'" SDUMP set the tasks in this space non-dispatchable
		1		ASSBSDUMPRESETND	"X'01'" Request SDUMP to set tasks dispatchable
The previous 3 bits are OWNERSHIP: SDUMP / and Must be set via C/S					
129	(81)	BITSTRING	1	ASSBFLG1	ASSB FLAG BYTE 1 OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: COMPARE AND SWAP.
EQU X'80' Available EQU X'40' Available					
		..1.		ASSBNTSL	"X'20'" JOB STEP HAS CREATED SYSTEM LEVEL NAME/TOKEN PAIRS.
		...1		ASSBFRST	"X'10'" The first pool of SVRBs has been obtained.
130	(82)	BITSTRING	1	ASSBFLG2	ASSB FLAG BYTE 2.
		1...		ASSBENFL	"X'80'" IF ON, INDICATES ADDRESS SPACE ISSUED ENF LISTEN REQUEST. OWNERSHIP: ENF. SERIALIZATION: NONE.
		.1..		ASSBNSWF	"X'40'" If on, indicates IEAVEGR found a WEB on the TAWQ, not marked SWAP. The TCBs in this space must be examined. Ownership: Supervisor Control Serialization: IEAVEGR
		..1.		ASSBPRAN	"X'20'" No longer set - kept for compatibility. Ownership: RTM. Serialization: Local lock.
131	(83)	BITSTRING	1	ASSBFLG3	ASSB FLAG BYTE 3
		1...		ASSBARM	"X'80'" The job or STC running in this address space is registered with the Automatic Restart Manager (ARM). Serialization: Compare and Swap. Ownership: XCF (ARM)
		.1..		ASSBNRST	"X'40'" The Automatic Restart Manager (ARM) should not restart the job or STC running in this address space even if it is registered with ARM. Serialization: Compare and Swap. Ownership: XCF (ARM)
		..1.		ASSBGDPS	"X'20'" If on, indicates this is the Geographically Dispersed Parallel Sysplex (GDPS) service address space. Ownership: GDPS Serialization: Compare and Swap
		...1		ASSBMDIP	"X'10'" If on, indicates that a Memterm dump is in progress. Ownership: RTM Serialization: Compare and Swap

Table 82. Structure ASSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		ASSBBCPIIUSED	"X'08'" If on, indicates this space has used BCPii services Ownership: BCPii Serialization: Compare and swap
		.... .1..		ASSB_INITIALLY_ZAAP_ON_ZIIP	"X'04'" Indicates that zAAP on zIIP was active when this job started. Ownership: SUP Serialization: Compare and swap
		.... ..1.		ASSBMTDC	"X'02'" If on, indicates that Memterm dump has completed Ownership: RTM Serialization: Compare and Swap
132	(84)	ADDRESS	4	ASSBASCB	ADDRESS OF ASCB.
136	(88)	ADDRESS	4	ASSBASRF	CREATED ASSB FORWARD POINTER.
140	(8C)	ADDRESS	4	ASSBASRB	CREATED ASSB BACKWARD POINTER.
144	(90)	ADDRESS	4	ASSBSSD	ADDRESS OF THE SUSPENDED SRB DESCRIPTOR (SSD) QUEUE. SERIALIZATION: DISPATCHER LOCK. OWNERSHIP: SUPERVISOR CONTROL.
148	(94)	ADDRESS	4	ASSBMQMA	CONTROL BLOCK ANCHOR FOR MQM MVS/ESA. SERIALIZATION: NONE. OWNERSHIP: MQSERIES
152	(98)	DBL WORD	8	ASSBLASB	TOKEN INDICATING IF MVS/APPC RESOURCES ARE ASSOCIATED WITH THIS ADDRESS SPACE. IF 0, THEN NONE ARE ASSOCIATED. OWNERSHIP: MVS/APPC. SERIALIZATION: NONE.
160	(A0)	ADDRESS	4	ASSBSCH	POINTER TO APPC SCHEDULER ADDRESS SPACE BLOCK. OWNERSHIP: MVS/APPC. SERIALIZATION: NONE.
164	(A4)	SIGNED	4	ASSBFSC	COUNT ACCUMULATED BY IEAMFCNT FOR THIS ADDRESS SPACE. SERIALIZATION: CS.
168	(A8)	ADDRESS	4	ASSBJSAB	ADDRESS OF JOB SCHEDULER ADDRESS SPACE BLOCK. OWNERSHIP: CONTROLLING JOB SCHEDULER. SERIALIZATION: SEE IAZXJSAB MACRO
172	(AC)	ADDRESS	4	ASSBRCTW	ADDRESS OF RCT's WEB. OWNERSHIP: Supervisor Control. SERIALIZATION: Disablement.
176	(B0)	BITSTRING	8	ASSBLDAX	Address of LDAX for this space
184	(B8)	ADDRESS	4	ASSBTLMI	ADDRESS OF TAILORED LOCK MANAGER INFORMATION BLOCK. OWNERSHIP: SYSTEM LOCK MANAGER. SERIALIZATION: LOCAL LOCK.
188	(BC)	ADDRESS	4	ASSBSDAS	POINTER TO WORKING STORAGE OBTAINED BY THE DUMP TASK. OWNERSHIP: SVC DUMP. SERIALIZATION: SVC DUMP.

Table 82. Structure ASSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
192	(C0)	SIGNED	4	ASSBTPIN	THE COUNT OF UCB PIN REQUESTS ISSUED IN TASK MODE OUTSTANDING FOR THE ADDRESS SPACE. SERIALIZATION: COMPARE AND SWAP. OWNERSHIP: IOS.
196	(C4)	SIGNED	4	ASSBSPIN	THE COUNT OF UCB PIN REQUESTS ISSUED IN SRB MODE OUTSTANDING FOR THE ADDRESS SPACE. SERIALIZATION: COMPARE AND SWAP. OWNERSHIP: IOS.
200	(C8)	SIGNED	4	ASSBECT1	THE COUNT OF ALLOCATION REQUESTS IN THIS ADDRESS SPACE CURRENTLY BOUND ON EDT NUMBER ONE. SERIALIZATION: COMPARE AND SWAP. OWNERSHIP: ALLOCATION.
204	(CC)	SIGNED	4	ASSBECT2	THE COUNT OF ALLOCATION REQUESTS IN THIS ADDRESS SPACE CURRENTLY BOUND ON EDT NUMBER TWO. SERIALIZATION: COMPARE AND SWAP. OWNERSHIP: ALLOCATION.
208	(D0)	SIGNED	4	ASSBMT#	MEMTERM DISABLE COUNT. WHEN NON-ZERO, ONLY DATERR MEMTERMS ARE PROCESSED. SERIALIZATION: COMPARE AND SWAP. OWNERSHIP: RTM
		1...		ASSBMTP	"X'80'" MEMTERM PENDING. TURNED ON WHEN A MEMTERM IS RECEIVED FOR A MEMTERMABLE ADDRESS SPACE. PREVENTS FURTHER DISABLEMENT.
212	(D4)	BITSTRING	4	ASSBDFP	RESERVED FOR USE BY DFP. OWNERSHIP: DFP. SERIALIZATION: LOCAL LOCK.
		1...		ASSBOAM	"X'80'" ADDRESS SPACE IS A USER OF OAM RESOURCES.
216	(D8)	SIGNED	2	ASSBR0D8	Reserved
218	(DA)	SIGNED	2	ASSBSNEW	Count of SASN=NEW connections included in ASCBETCN SERIALIZATION - PC/AUTH Address space Local Lock. OWNERSHIP - XM Services.
220	(DC)	ADDRESS	4	ASSBNTTP	ADDRESS OF ADDRESS SPACE LEVEL NAME/TOKEN HEADER. SERIALIZATION: LOCAL LOCK. OWNERSHIP: SUPERVISOR CONTROL.
224	(E0)	ADDRESS	4	ASSBOECB(0)	ECB WHICH IS WAITED ON BY THE INITIATOR FOR AN OpenMVS EVENT. SERIALIZATION: POST AND WAIT. OWNERSHIP: OpenMVS.
224	(E0)	BITSTRING	1	ASSBOEPC	POST CODE: '81'X=>BPX1EXC '82'X=>BPX1EXI
225	(E1)	BITSTRING	3	ASSBOECD(0)	OpenMVS completion codes.
225	(E1)	BITSTRING	2		Unused.
227	(E3)	BITSTRING	1	ASSBOEES	Exit Status passed on BPX1EXI.

Table 82. Structure ASSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
228	(E4)	ADDRESS	4	ASSBOASB	OpenMVS ADDRESS SPACE BLOCK. SERIALIZATION: ENQ MAJOR=SYSZBPX MINOR=PROCESS_INIT. OWNERSHIP: OpenMVS.
232	(E8)	ADDRESS	4	ASSBXSBA	XSB POOL QUEUE. SERIALIZATION: COMPARE-AND-SWAP WHEN RETURNING XSBS. : COMPARE-AND-SWAP AND THE LOCAL LOCK WHEN REMOVING XSBS OWNERSHIP: SUPERVISOR CONTROL.
236	(EC)	ADDRESS	4	ASSBDLCB	Contains the address of the Dynamic LNKLST Control Block (DLCB) mapped by CSVDLCB. Ownership: CSV Serialization: ENQ
240	(F0)	ADDRESS	4	ASSBVAB	ADDRESS OF VSM ADDRESS SPACE BLOCK (VAB), WHICH ANCHORS SOME OF THE VSM CONTROL BLOCKS THAT DESCRIBE COMMON STORAGE. SERIALIZATION: NONE. OWNERSHIP: VIRTUAL STORAGE MANAGER.
244	(F4)	ADDRESS	4	ASSBLMAB	LATCH MANAGER ADDRESS SPACE BLOCK. SERIALIZATION: CMSEQDQ LOCK. OWNERSHIP: GRS.
248	(F8)	SIGNED	4	ASSBIOCT	DIV/IO count
252	(FC)	ADDRESS	4	ASSBCTT	CTT field
256	(100)	SIGNED	4	ASSBXRCT	XES REQUEST COUNT SERIALIZATION: COMPARE AND SWAP. OWNERSHIP: XES.
260	(104)	SIGNED	4	ASSBR104(0)	Reserved as of z/OS 1.11
260	(104)	SIGNED	4	ASSBETSC_PREZOS11	Enclave TCB Summary Count SERIALIZATION: CS OWNERSHIP: SUPERVISOR CONTROL Not set as of z/OS 1.11
264	(108)	ADDRESS	4	ASSBTASB	TCPIP ASSB Extension Ownership: TCPIP Serialization: Compare and Swap when first TCPIP client is initialized in this space.
268	(10C)	SIGNED	4	ASSBTPMA	OWNER: IOS.
272	(110)	SIGNED	4	ASSBROSU	OWNER: IOS.
276	(114)	SIGNED	4	ASSBTPMT	OWNER: IOS.
280	(118)	BITSTRING	4	ASSBSSDT	SSD Trailer
284	(11C)	ADDRESS	4	ASSBTAWQ	ADDRESS OF TASK WEB QUEUE. SERIALIZATION: WEB QUEUE LOCK OWNERSHIP: SUPERVISOR CONTROL
288	(120)	ADDRESS	4	ASSBWCML	ADDRESS OF CML PROMOTION WEB. SERIALIZATION: NONE OWNERSHIP: SUPERVISOR CONTROL
292	(124)	ADDRESS	4	ASSBWS3S	ADDRESS OF ASYNCHRONOUS EXIT WEB. SERIALIZATION: NONE OWNERSHIP: SUPERVISOR CONTROL
296	(128)	ADDRESS	4	ASSBWSSS	ADDRESS OF SUSPENDED STATUS WEB. SERIALIZATION: GLOBAL INTERSECT OWNERSHIP: SUPERVISOR CONTROL

Table 82. Structure ASSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
300	(12C)	ADDRESS	4	ASSBCAPQ	ADDRESS OF FIRST WEB ON THE CAP QUEUE. SERIALIZATION: DISPATCHER ACTIVE AND COMPARE AND SWAP TO ENQUEUE, GLOBAL INTERSECT TO DEQUEUE. OWNERSHIP: SUPERVISOR CONTROL
304	(130)	ADDRESS	4	ASSBPTAR	Pointer used by RTM processing to control task structure terminations. Ownership: RTM2. Serialization: Local lock.
308	(134)	SIGNED	4	ASSBWTCT	When this counter is non-zero, a recovery routine has requested temporary deferral of Parallel Detach trigger detection. Ownership: RTM Serialization: Compare and Swap.
312	(138)	SIGNED	4	ASSBSBCT	XES-owned count of requests with storage binds, incremented in the ASSB of the storage owner. Ownership: XES Serialization: Compare and Swap
316	(13C)	ADDRESS	4	ASSBARBP	ARM (Automatic Restart Manager) Resource Block. Serialization: Local Lock Ownership: XCF (ARM)
320	(140)	ADDRESS	4	ASSBRCTR	ADDRESS OF RCT's RB OWNERSHIP: Region Control Task SERIALIZATION: None
324	(144)	ADDRESS	4	ASSBSCAH	Address of the SCA (SPIE/ESPIE Control Area) chain Ownership: RTM Serialization: Local Lock
328	(148)	BITSTRING	1	ASSBTTFL	Transaction Trace flags. Serialization: None Ownership: Transaction Trace
		1...		ASSBTTRC	"X'80'" Transaction Trace has been used.
329	(149)	BITSTRING	1	ASSBWMF1	WLM flags SERIALIZATION: none
		1...		ASSBWINI	"X'80'" WLM Managed Batch initiator
		.1..		ASSBFSAS	"X'40'" WLM Managed OE Forked/Spawned address space
330	(14A)	SIGNED	2	ASSBPSWC	Preemptable-class SRB short wait count. OWNERSHIP: Supervisor control SERIALIZATION: none
332	(14C)	ADDRESS	4	ASSBIXGA	Pointer to SLC address space related information. Serialization: Local Lock and CMS Lock Ownership: System Logger
336	(150)	DBL WORD	8	ASSBJBNI	Jobname for the Initiated Program that is associated with this Address Space. If 0, then none is associated. OWNERSHIP: Initiator. SERIALIZATION: None.

Table 82. Structure ASSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
344	(158)	DBL WORD	8	ASSBJBNS	Jobname for the START/MOUNT/ LOGON that is associated with this Address Space. If 0, then none is associated. OWNERSHIP: Console Services. SERIALIZATION: None.
352	(160)	DBL WORD	8	ASSBASST	Additional SRB Service Time. CPU time is accumulated here for this address space's Preemptable SRBs and for Client Related SRBs for which this address space is the client. Format: TOD Clock Format Ownership: Supervisor Control Serialization: CS
360	(168)	DBL WORD	8	ASSBPHTM	Preemptable-class SRB Time. The CPU time for all types of preemptable SRBs (PSRB, CRSRB, ESRB) executing with this address space as their home space is accumulated here. This value is not used in SMF or SRM calculations. Format: TOD Clock Format Ownership: Supervisor Control Serialization: CS
368	(170)	ADDRESS	4	ASSBCRWQ	Client Related WEB Queue. Address of the first WEB on the queue. WEBs on this queue are client SRBs for which this space is the client. Ownership: Supervisor Control Serialization: AWQ Lock
372	(174)	ADDRESS	4	ASSBSCWQ	Suspended Client related WEB Queue. Address of the first WEB on the queue. WEBs on this queue are suspended client SRBs for which this space is the client. Ownership: Supervisor Control Serialization: AWQ Lock
376	(178)	SIGNED	4	ASSBLCNT	Number of latched operations in progess for System Logger in an address space. Ownership: System Logger Serialization: CS
380	(17C)	SIGNED	4	ASSBACNT	Number of asynchronous requests in progress in System. This infomrmation will be used by TSO during 'Authorized' command processing Ownership: System Logger Serialization: CS
384	(180)	SIGNED	4	ASSBLCPD	CPOOLID of the cpool created by system logger
388	(184)	SIGNED	4	ASSBSLSC(0)	Slip serialization counts. Ownership: SLIP Serialization: CS
388	(184)	SIGNED	2	ASSBSLPC	Slip PER serialization count
390	(186)	SIGNED	2	ASSBSLNC	Slip Non-PER serialization count

Table 82. Structure ASSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
392	(188)	ADDRESS	4	ASSBPVTC	Queue of privately managed contexts for this address space Ownership: Context Services Serialization: Local lock
396	(18C)	SIGNED	4	ASSBCTX(0)	Context Services Word
396	(18C)	BITSTRING	1	ASSBCTXF	Context Services flags Ownership: Context Services Serialization: Local lock
		1...		ASSBNCL	"X'80'" There is no limit to the number of private contexts in this space
		.1..		ASSBMSGI	"X'40'" The message to relax the above limit has been issued and rejected
		..1.		ASSBURMX	"X'20'" There is no limit to the number of unauthorized resource managers in this space.
		...1		ASSBURMM	"X'10'" The message to relax the above limit has been issued for this space.
397	(18D)	BITSTRING	3	ASSBCTX2	Reserved context services.
400	(190)	BITSTRING	16	ASSBHALE	Copy of Home ALE
416	(1A0)	BITSTRING	4	ASSBR1A0	Reserved
420	(1A4)	SIGNED	4	ASSBSRSN	Suspend/Resume sequence number Ownership: Supervisor Control Serialization: CS
424	(1A8)	ADDRESS	4	ASSBWLMS	Address of WLM managed server SERIALIZATION: WLMQ lock
428	(1AC)	ADDRESS	4	ASSBBCBA	Address of SOMObjects data structure Ownership: SOMObjects for OS/390 Serialization: CS
432	(1B0)	BITSTRING	4	ASSBCSM	CSM user bitmap Ownership: VTAM
436	(1B4)	SIGNED	4	ASSBPECT	Number of Pause elements allocated by unauthorized programs Ownership: Supervisor Control Serialization: Dispatcher lock
440	(1B8)	ADDRESS	4	ASSBRRSA	RRS data area pointer
444	(1BC)	BITSTRING	2	ASSBOFLG(0)	ASSB USS flags Ownership: USS Serialization: None
444	(1BC)	BITSTRING	1	ASSBOFL0	ASSB USS flag byte 0
		1...		ASSBOMSC	"X'80'" USS address space must remain program controlled.
		.1..		ASSBODWT	"X'40'" USS process awaiting dub.
		..1.		ASSBOSDB	"X'20'" Allow address space to dub at same time as superusers
		...1		ASSBTDAFF	"X'10'" CInet Addr Sp Transport Dr Affinity has been setup
445	(1BD)	BITSTRING	1	ASSBOFL1	ASSB USS flag byte 1
446	(1BE)	BITSTRING	2	ASSBSCAF	CPU affinity indicator associated with SRM. Serialization: SRM spin lock

Table 82. Structure ASSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
448	(1C0)	SIGNED	4	ASSBCTXC	Number of private contexts owned by PKM 8 to 15 resource managers in this space. Ownership: Context Services Serialization: C&S
452	(1C4)	SIGNED	4	ASSBRMCT	Number of PKM 8 to 15 resource managers. Ownership: Registration Services Serialization: C&S
456	(1C8)	ADDRESS	4	ASSBLRBA	License manager resource block
460	(1CC)	ADDRESS	4	ASSBSLFA	Shadow LFT address
464	(1D0)	BITSTRING	1	ASSBR1D0	Reserved
465	(1D1)	BITSTRING	1	ASSBFABRICPRIORITY	Fabric I/O Priority. Will be zero if the system does not support Fabric I/O Priority. Owner: WLM/SRM Serialization: SRM Lock
466	(1D2)	BITSTRING	2	ASSBIOMS	I/O Management Support Data. Serialization: SRM lock Owner: SRM
468	(1D4)	SIGNED	2	ASSBPROMOTIONCOUNT	Number of WEBs to promote. Serialization: None, this count does not need to be exact
470	(1D6)	SIGNED	1	ASSBTIOP	Tape I/O Priority
471	(1D7)	SIGNED	1	ASSBCSDP	Channel Subsystem I/O Priority. Will be zero if the system does not support channel subsystem priority. Ownership: SRM Serialization: SRM lock
472	(1D8)	BITSTRING	16	ASSB_IFA_TIME_AREA(0)	
472	(1D8)	DBL WORD	8	ASSB_TIME_IFA_ON_CP	
480	(1E0)	DBL WORD	8	ASSB_TIME_ON_IFA	
488	(1E8)	DBL WORD	8	ASSB_TASK_TIME_ON_CP(0)	Time on CP in task mode for this space. Valid only when zAAPs or SUPs are installed
488	(1E8)	DBL WORD	8	ASSB_TIME_ON_CP	Synonym for ASSB_TASK_TIME_ON_CP
496	(1F0)	CHARACTER	5	ASSBMTCI	Memterm component ID. Set only when sdump needs to be taken
501	(1F5)	SIGNED	1	ASSBFLG4	Flags Ownership: LE Serialization: none
		1...		ASSB_AUTHLE	"X'80'" Resources have been allocated.
502	(1F6)	SIGNED	1	ASSBQIOP	Queued Director I/O Priority Owner: WLM/SRM Serialization: SRM lock
503	(1F7)	BITSTRING	1	ASSBCRYP	Crypto flags. Serialization: none.
		1...		ASSBSODS	"X'80'" If set to '1'b, the address space is using an ICSF session object data space.
		.1..		ASSBCRNQ	"X'40'" If set to '1'b, the address space has done key data set serialization.

Table 82. Structure ASSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
504	(1F8)	DBL WORD	8	ASSBPHTM_BASE	Value in ASSBPHTM at the end of the previous jobstep. Serialization: none
512	(200)	ADDRESS	4	ASSBEARLYMEMTERMRM	Address of Early Memterm Resource Manager
516	(204)	SIGNED	4	ASSB_LAA_CPID	Anchor for LAA CPOOL Ownership: LE
520	(208)	DBL WORD	8	ASSB_IFA_PHTM	IFA-only equivalent of ASSBPHTM This is "normalized" time
528	(210)	DBL WORD	8	ASSBR210(0)	Reserved as of z/OS 1.11
528	(210)	DBL WORD	8	ASSB_ENCT_PREZOS11	Enclave time in an address space on a standard CP Not set as of z/OS 1.11
536	(218)	DBL WORD	8	ASSB_IFA_ENCT_PREZOS11	Enclave IFA time in an address space. This is "normalized" time Not set as of z/OS 1.11
544	(220)	DBL WORD	8	ASSB_BASE_PHTM	Base value, set by WLM
552	(228)	DBL WORD	8	ASSB_IFA_BASE_PHTM	Base value, set by WLM
560	(230)	DBL WORD	8	ASSB_BASE_ENCT	Base value, set by WLM
568	(238)	DBL WORD	8	ASSB_IFA_BASE_ENCT	Base value, set by WLM
576	(240)	ADDRESS	4	ASSB_CP_AFFINITY_NODE	WUQ for CP affinity
	1...			ASSB_ENTITLE_NOMINEE	"X'80'" Entitle nominee
580	(244)	ADDRESS	4	ASSB_IFA_AFFINITY_NODE	WUQ for IFA affinity
584	(248)	ADDRESS	4	ASSB_ZIIP_AFFINITY_NODE(0)	WUQ for zIIP affinity
584	(248)	ADDRESS	4	ASSB_SUP_AFFINITY_NODE	
588	(24C)	SIGNED	4	ASSBSRBCPOOLPMECOUNT	Count of active SRB CPOOL PMEs in the Home address space Serialization: Compare and Swap
592	(250)	DBL WORD	8	ASSB_TIME_ON_ZIIP(0)	zIIP time. Enclave time not included
592	(250)	DBL WORD	8	ASSB_TIME_ON_SUP	
600	(258)	DBL WORD	8	ASSB_TIME_ZIIP_ON_CP(0)	zIIP time on CP. Enclave time not included. When zAAPzIIP=YES is in effect, zAAP-eligible work running on a CP is included.
600	(258)	DBL WORD	8	ASSB_TIME_SUP_ON_CP	
608	(260)	DBL WORD	8	ASSB_ZIIP_PHTM(0)	zIIP-only equivalent of ASSBPHTM This is "normalized" time
608	(260)	DBL WORD	8	ASSB_SUP_PHTM	
616	(268)	DBL WORD	8	ASSB_SRB_TIME_ON_CP	Time on CP in SRB mode for this space. Valid only when zAAPs or SUPs are installed
624	(270)	DBL WORD	8	ASSB_ZIIP_ENCT(0)	Enclave zIIP time in an address space. This is "normalized" time
624	(270)	DBL WORD	8	ASSB_SUP_ENCT	
632	(278)	DBL WORD	8	ASSB_IFA_ON_CP_ENCT	Enclave time for IFA on CP in an address space
640	(280)	ADDRESS	4	ASSBSOWN	Address of the Suspended SRB Descriptor (SSD) static queue. Serialization: Dispatcher Lock. Ownership: Supervisor Control.
644	(284)	ADDRESS	4	ASSBSOWT	SSD Static Ownership queue trailer.

Table 82. Structure ASSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
648	(288)	DBL WORD	8	ASSB_IFA_ON_CP_BASE_ENCT	Enclave base time for IFA on CP in an address space
656	(290)	DBL WORD	8	ASSB_TIME_AT_PDP	Trickle promotion CPU time (PDP means Promotion Dispatch Priority) Owner: Supervisor Control Serialization: Compare and Swap
664	(298)	DBL WORD	8	ASSB_SRBT_BASE	BASE TIME FOR ASCBSRBT Ownership: SRM Serialization: SRMLOCK
672	(2A0)	ADDRESS	4	ASSBCASC	Address of the Console Address Space Control block. Ownership: Console Services Serialization: Compare and Swap
676	(2A4)	SIGNED	4	ASSBNUMBERUNAUTHPETS	Number of unauthorized PETs currently in use in the Home address space Serialization: DISP lock
680	(2A8)	DBL WORD	8	ASSB_ASST_TIME_ON_CP	Additional SRB Service Time on a standard CP. CPU time is accumulated here for this address space's Preemptable SRBs and for Client Related SRBs for which this address space is the client. Valid only when zAAPs or zIIPs are installed Format: TOD Clock Format Ownership: Supervisor Control Serialization: CS
688	(2B0)	DBL WORD	8	ASSB_SWITCH_TO_ZAAPZIIP_COUNT	When not zAAP_On_zIIP initially, this is incremented on switches to zAAP. When zAAP_On_zIIP initially, this is incremented on switches to both zAAP and zIIP
696	(2B8)	DBL WORD	8	ASSBASAB	Address of IQP ASAB Owner: IQP Serialization: local lock
704	(2C0)	DBL WORD	8	ASSB_SUP_BASE_ENCT	Base value, set by WLM
712	(2C8)	DBL WORD	8	ASSB_SUP_ON_CP_ENCT	Enclave time for SUP on CP in an address space. When zAAPzIIP=YES is in effect, zAAP-eligible work running on a CP is included.
720	(2D0)	DBL WORD	8	ASSB_SUP_ON_CP_BASE_ENCT	Enclave base time for SUP on CP in an address space. When zAAPzIIP=YES is in effect, zAAP-eligible work running on a CP is included.
728	(2D8)	ADDRESS	4	ASSBRMIN	Address of RTM's reserved RMPL and associated storage - this will always be below the 16M line Ownership: RTM Serialization: Local lock

Table 82. Structure ASSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		ASSBRTMI	"X'80'" When on, the reserved RMPL pointed to by ASSBRMIN and the reserved RTM2WA pointed to by ASSBRTMA are in use
732	(2DC)	ADDRESS	4	ASSBRTMA	Address of RTM's reserved RTM2WA and associated storage Ownership: RTM Serialization: Local lock
736	(2E0)	DBL WORD	8	ASSB_HDLOCKPROMOTION_TIME_AT_PDP	HiperDispatch=YES lock promotion CPU time (PDP means Promotion Dispatch Priority).
744	(2E8)	SIGNED	4	ASSB_LOCKINST_PTRS(0)	
744	(2E8)	ADDRESS	4	ASSB_SMFCMS_LOCKINST_ADDR	Address of the SMF CMS instrumentation data for this address space
748	(2EC)	ADDRESS	4	ASSB_ENQDEQ_CMS_LOCKINST_ADDR	Address of the ENQ/DEQ CMS instrumentation data for this address space
752	(2F0)	ADDRESS	4	ASSB_LATCH_CMS_LOCKINST_ADDR	Address of the Latch CMS instrumentation data for this address space
756	(2F4)	ADDRESS	4	ASSB_CMS_LOCKINST_ADDR	Address of the CMS instrumentation data for this address space
760	(2F8)	ADDRESS	4	ASSB_LOCAL_LOCKINST_ADDR	Address of the local and CML lock instrumentation data for this address space
764	(2FC)	BITSTRING	4	ASSBR2FC	Reserved
Start of x'300' primarily write cache line					
768	(300)	BITSTRING	256	ASSB_300(0)	
768	(300)	ADDRESS	4	ASSBSAWQ	- ADDRESS OF ADDRESS SPACE SRB WEB QUEUE SERIALIZATION: WEB QUEUE LOCK OWNERSHIP: SUPERVISOR CONTROL
		1...		ASSBURRQ	"X'80'" - SYSEVENT USER READY REQUIRED SERIALIZATION: WEB QUEUE LOCK OWNERSHIP: SUPERVISOR CONTROL
772	(304)	BITSTRING	252	ASSBR304	Reserved. DO NOT USE
Start of x'400' primarily write cache line					
1024	(400)	BITSTRING	256	ASSB_400(0)	
1024	(400)	ADDRESS	4	ASSBHREQ	- Local lock requestor address
1028	(404)	SIGNED	2	ASSBHASI	- Local lock owning ASID
1030	(406)	BITSTRING	250	ASSBR406	Reserved. DO NOT USE
Start of x'500' primarily write cache line					
1280	(500)	BITSTRING	256	ASSB_500(0)	
1280	(500)	DBL WORD	8	ASSB_ENCT	Enclave time in an address space on a standard CP
1288	(508)	BITSTRING	248	ASSBR508	Reserved. DO NOT USE

Table 82. Structure ASSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Start of x'600' primarily write cache line					
1536	(600)	BITSTRING	256	ASSB_600(0)	
1536	(600)	DBL WORD	8	ASSB_IFA_ENCT	Enclave IFA time in an address space space. This is "normalized" time
1544	(608)	BITSTRING	248	ASSBR608	Reserved. DO NOT USE
Start of x'700' primarily write cache line					
1792	(700)	BITSTRING	256	ASSB_700(0)	
1792	(700)	SIGNED	4	ASSBETSC	Enclave TCB Summary Count SERIALIZATION: CS OWNERSHIP: SUPERVISOR CONTROL
1796	(704)	BITSTRING	252	ASSBR704	Reserved. DO NOT USE
Start of x'800' primarily write cache line					
2048	(800)	BITSTRING	256	ASSB_800(0)	
We considered putting ASSBCMLC and ASSBSUPC into separate cache lines as opposed to a single cache line. The performance people said to put then into the same cache line.					
2048	(800)	SIGNED	4	ASSBCMLC	- Count of CML locks held by this address space. Serialization - CS. Ownership - Supervisor.
2052	(804)	BITSTRING	4	ASSBR804	Reserved.
2056	(808)	DBL WORD	8	ASSBSUPC(0)	SVRB pool header
2056	(808)	ADDRESS	4	ASSBSVRB	Address of first available SVRB
2060	(80C)	SIGNED	4	ASSBSYNC	Synchronization count
2064	(810)	BITSTRING	240	ASSBR810	Reserved. DO NOT USE
End of cache line Start of x'900' Miscellaneous fields					
2304	(900)	BITSTRING	48	ASSB_900(0)	
2304	(900)	DBL WORD	8	ASSB_VARTIME_AT_PDP	Total time promoted to a variable dispatch priority
2312	(908)	DBL WORD	8	ASSB_VARWEIGHTED_TIME_AT_PDP	Time promoted to a variable dispatch priority weighted by the dispatch priority
2320	(910)	BITSTRING	8	ASSB_HCWA	HCW
2328	(918)	DBL WORD	8	ASSB_SCMBC	Storage Class Memory (SCM) block count Ownership: ASM Serialization: ASMGL lock
2336	(920)	DBL WORD	8	ASSB_ZIIP_PHTM_BASE	Value in ASSB_zIIP_PHTM at the end of the previous jobstep.
2344	(928)	BITSTRING	8	ASSBR928	Reserved for future use.
2352	(930)	DBL WORD	8	ASSBEND(0)	END OF ASSB.

Table 83. Cross Reference for ASSB

Name	Offset	Hex Tag
ASSB	0	
ASSB_ASST_TIME_ON_CP	2A8	

Table 83. Cross Reference for ASSB (continued)

Name	Offset	Hex Tag
ASSB_AUTHLE	1F5	80
ASSB_BASE_ENCT	230	
ASSB_BASE_PHTM	220	
ASSB_CMS_LOCKINST_ADDR	2F4	
ASSB_CP_AFFINITY_NODE	240	
ASSB_ENCT	500	
ASSB_ENCT_PREZOS11	210	
ASSB_ENQDEQ_CMS_LOCKINST_ADDR	2EC	
ASSB_ENTITLE_NOMINEE	240	80
ASSB_HCWA	910	
ASSB_HDLOCKPROMOTION_TIME_AT_PDP	2E0	
ASSB_IFA_AFFINITY_NODE	244	
ASSB_IFA_BASE_ENCT	238	
ASSB_IFA_BASE_PHTM	228	
ASSB_IFA_ENCT	600	
ASSB_IFA_ENCT_PREZOS11	218	
ASSB_IFA_ON_CP_BASE_ENCT	288	
ASSB_IFA_ON_CP_ENCT	278	
ASSB_IFA_PHTM	208	
ASSB_IFA_TIME_AREA	1D8	
ASSB_INITIALLY_ZAAP_ON_ZIIP	83	4
ASSB_LAA_CPID	204	
ASSB_LATCH_CMS_LOCKINST_ADDR	2F0	
ASSB_LOCAL_LOCKINST_ADDR	2F8	
ASSB_LOCKINST_PTRS	2E8	
ASSB_SCMBC	918	
ASSB_SMFCMS_LOCKINST_ADDR	2E8	
ASSB_SRB_TIME_ON_CP	268	
ASSB_SRBT_BASE	298	
ASSB_SUP_AFFINITY_NODE	248	
ASSB_SUP_BASE_ENCT	2C0	
ASSB_SUP_ENCT	270	
ASSB_SUP_ON_CP_BASE_ENCT	2D0	
ASSB_SUP_ON_CP_ENCT	2C8	
ASSB_SUP_PHTM	260	
ASSB_SWITCH_TO_ZAAPZIIP_COUNT	2B0	
ASSB_TASK_TIME_ON_CP	1E8	
ASSB_TIME_AT_PDP	290	
ASSB_TIME_IFA_ON_CP	1D8	
ASSB_TIME_ON_CP	1E8	
ASSB_TIME_ON_IFA	1E0	
ASSB_TIME_ON_SUP	250	
ASSB_TIME_ON_ZIIP	250	
ASSB_TIME_SUP_ON_CP	258	
ASSB_TIME_ZIIP_ON_CP	258	
ASSB_VARTIME_AT_PDP	900	
ASSB_VARWEIGHTED_TIME_AT_PDP	908	
ASSB_ZIIP_AFFINITY_NODE	248	
ASSB_ZIIP_ENCT	270	

Table 83. Cross Reference for ASSB (continued)

Name	Offset	Hex Tag
ASSB_ZIIP_PHTM	260	
ASSB_ZIIP_PHTM_BASE	920	
ASSB_300	300	
ASSB_400	400	
ASSB_500	500	
ASSB_600	600	
ASSB_700	700	
ASSB_800	800	
ASSB_900	900	
ASSBACNT	17C	
ASSBANEC	70	
ASSBARBP	13C	
ASSBARM	83	80
ASSBASAB	2B8	
ASSBASCB	84	
ASSBASEI	58	
ASSBASRB	8C	
ASSBASRF	88	
ASSBASRR	28	
ASSBASSB	0	
ASSBASST	160	
ASSBBALD	44	
ASSBBALV	40	
ASSBBCBA	1AC	
ASSBBCPIIUSED	83	8
ASSBBPSA	38	
ASSBBSDN	80	80
ASSBCAPQ	12C	
ASSBCASC	2A0	
ASSBCBTP	1C	
ASSBCDSI	80	40
ASSBCMLC	800	
ASSBCRNQ	1F7	40
ASSBCRWQ	170	
ASSBCRYP	1F7	
ASSBCSCT	3C	
ASSBCSDP	1D7	
ASSBCSM	1B0	
ASSBCTT	FC	
ASSBCTX	18C	
ASSBCTXC	1C0	
ASSBCTXF	18C	
ASSBCTX2	18D	
ASSBDEXP	2C	
ASSBDFAS	7C	
ASSBDFP	D4	
ASSBDLCB	EC	
ASSBEARLYMEMTERMRM	200	
ASSBECT1	C8	

Table 83. Cross Reference for ASSB (continued)

Name	Offset	Hex Tag
ASSBECT2	CC	
ASSBEGIN	0	
ASSBEMCS_ACTIVATED	78	80
ASSBEND	930	
ASSBENFL	82	80
ASSBETSC	700	
ASSBETSC_PREZOS11	104	
ASSBFABRICPRIORITY	1D1	
ASSBFLGS	80	
ASSBFLG0	80	
ASSBFLG1	81	
ASSBFLG2	82	
ASSBFLG3	83	
ASSBFLG4	1F5	
ASSBFRST	81	10
ASSBFSAS	149	40
ASSBFSC	A4	
ASSBGDPS	83	20
ASSBHALE	190	
ASSBHASI	404	
ASSBHREQ	400	
ASSBHST	60	
ASSBIIPT	68	
ASSBIOCT	F8	
ASSBIOMS	1D2	
ASSBISQN	34	
ASSBIXGA	14C	
ASSBJBNI	150	
ASSBJBNS	158	
ASSBJSAB	A8	
ASSBLASB	98	
ASSBLCNT	178	
ASSBLCPD	180	
ASSBLDAX	B0	
ASSBLMAB	F4	
ASSBLRBA	1C8	
ASSBMCSO	78	
ASSBMDIP	83	10
ASSBMQMA	94	
ASSBMSGI	18C	40
ASSBMT#	D0	
ASSBMTCI	1F0	
ASSBMTDC	83	2
ASSBMTP	D0	80
ASSBNCL	18C	80
ASSBNOML	80	8
ASSBNRST	83	40
ASSBNSWF	82	40
ASSBNTSL	81	20

Table 83. Cross Reference for ASSB (continued)

Name	Offset	Hex Tag
ASSBNTTP	DC	
ASSBNUMBERUNAUTHPETS	2A4	
ASSBNVSC	24	
ASSBOAM	D4	80
ASSBOASB	E4	
ASSBODWT	1BC	40
ASSBOECB	E0	
ASSBOECD	E1	
ASSBOEES	E3	
ASSBOEPC	E0	
ASSBOFLG	1BC	
ASSBOFL0	1BC	
ASSBOFL1	1BD	
ASSBOMSC	1BC	80
ASSBOSDB	1BC	20
ASSBPALV	54	
ASSBPECT	1B4	
ASSBPHTM	168	
ASSBPHTM_BASE	1F8	
ASSBPNSW	80	10
ASSBPRAN	82	20
ASSBPROMOTIONCOUNT	1D4	
ASSBPSCH	80	20
ASSBPSWC	14A	
ASSBPTAR	130	
ASSBPVTC	188	
ASSBQIOP	1F6	
ASSBRCTR	140	
ASSBRCTW	AC	
ASSBRMA	5C	
ASSBRMCT	1C4	
ASSBRMIN	2D8	
ASSBROSU	110	
ASSBRRSA	1B8	
ASSBRTMA	2DC	
ASSBRTMI	2D8	80
ASSBR0D8	D8	
ASSBR008	8	
ASSBR010	10	
ASSBR1A0	1A0	
ASSBR1D0	1D0	
ASSBR104	104	
ASSBR2FC	2FC	
ASSBR210	210	
ASSBR304	304	
ASSBR406	406	
ASSBR508	508	
ASSBR608	608	
ASSBR704	704	

Table 83. Cross Reference for ASSB (continued)

Name	Offset	Hex Tag
ASSBR804	804	
ASSBR810	810	
ASSBR928	928	
ASSBSAWQ	300	
ASSBSBCT	138	
ASSBSCAF	1BE	
ASSBSCAH	144	
ASSBSCH	A0	
ASSBSCWQ	174	
ASSBSDAS	BC	
ASSBSDOV	74	
ASSBSDUMPAS	80	4
ASSBSDUMPND	80	2
ASSBSDUMPRESETND	80	1
ASSBSLFA	1CC	
ASSBSLNC	186	
ASSBSLPC	184	
ASSBSLSC	184	
ASSBSMFL	4	
ASSBSNEW	DA	
ASSBSODS	1F7	80
ASSBSOWN	280	
ASSBSOWT	284	
ASSBSPIN	C4	
ASSBSRBCPOOLPMECOUNT	24C	
ASSBSRSN	1A4	
ASSBSSD	90	
ASSBSSDT	118	
ASSBSTKN	30	
ASSBSTW1	30	
ASSBSTYP	30	F0
ASSBSUPC	808	
ASSBSVRB	808	
ASSBSYNC	80C	
ASSBTASB	108	
ASSBTAWQ	11C	
ASSBTDAFF	1BC	10
ASSBTIOP	1D6	
ASSBTLMI	B8	
ASSBTPIN	C0	
ASSBTPMA	10C	
ASSBTPMT	114	
ASSBTSQN	4C	
ASSBTTFL	148	
ASSBTTRC	148	80
ASSBURMM	18C	10
ASSBURMX	18C	20
ASSBURRQ	300	80
ASSBVAB	F0	

Table 83. Cross Reference for ASSB (continued)

Name	Offset	Hex Tag
ASSBVCNT	50	
ASSBVSC	20	
ASSBWCML	120	
ASSBWINI	149	80
ASSBWLMS	1A8	
ASSBWMF1	149	
ASSBWSSS	128	
ASSBWS3S	124	
ASSBWTCT	134	
ASSBXEAX	18	80
ASSBXMCC	1A	
ASSBXMF1	18	
ASSBXMF2	19	
ASSBXMSE	48	
ASSBXRCT	100	
ASSBXSBA	E8	

Chapter 23. ASTE Information

ASTE Heading Information

Common Name:	ADDRESS SPACE SECOND TABLE ENTRY (ASTE)
Macro ID:	IHAASTE1
DSECT Name:	ASTE1
Owning Component:	SUPERVISOR CONTROL (SC1C5)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: 245 Key: 0
Size:	64 BYTES. THERE IS ONE ASTE PER ADDRESS SPACE.
Created by:	IEAVNP09 (SUBPOOL 245 - COMMON SQA/ESQA)
Pointed to by:	ASCBASTE (VIRTUAL ADDRESS)
Serialization:	FIELDS ARE SERIALIZED BY THE PC/AUTH ADDRESS SPACE LOCAL LOCK AND BY COMPARE AND SWAP.
Function:	MAPS THE ASTE. THE ASTE CONTAINS THE REAL ADDRESS AND LENGTH OF THE LT, THE REAL ADDRESS AND LENGTH OF THE AT, AND OTHER ADDRESS SPACE ORIENTED CROSS MEMORY INFORMATION.

ASTE mapping

Table 84. Structure ASTE1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	64	ASTE1	ADDRESS SPACE SECOND TABLE ENTRY.
0	(0)	ADDRESS	4	ASTE1ATO	AUTHORIZATION TABLE ORIGIN. CONTAINS REAL ADDRESS OF THE AT FOR THIS ADDRESS SPACE. BITS 1-29 OF ASTE1ATO, WITH TWO LOW ORDER ZEROS APPENDED, FORM THE AUTHORIZATION TABLE REAL ADDRESS. SERIALIZED BY THE PC/AUTH ADDRESS SPACE LOCAL LOCK AND CS
		1...		ASTE1ICMA	INVALID CROSS MEMORY ACCESS INDICATOR. IF 1, THE ADDRESS SPACE ASSOCIATED WITH THIS ASTE1 IS NOT AVAILABLE FOR CROSS MEMORY FUNCTIONS.
4	(4)	UNSIGNED	2	ASTE1AX	AUTHORIZATION INDEX. SERIALIZED BY THE PC/AUTH ADDRESS SPACE LOCAL LOCK.
6	(6)	UNSIGNED	2	ASTE1ATL	AUTHORIZATION TABLE LENGTH. BITS 0-11 CONTAIN THE NUMBER OF WORDS, MINUS ONE, IN THE AT. BITS 12-13 ARE ZERO. BITS 14-15 ARE INDICATORS. SERIALIZED BY THE PC/AUTH ADDRESS SPACE LOCAL LOCK.

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Table 84. Structure ASTE1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
6	(6)	BITSTRING	1	ASTE1ATL0	
7	(7)	BITSTRING	1	ASTE1ATL1	
		1111		*	
		.... 11..		ASTE1RV01	RESERVED BITS - ZERO
		.... ..1.		ASTE1CA	CONTROLLED ASID
		1		ASTE1RA	REUSABLE ASID
8	(8)	BITSTRING	8	ASTE1ASCE	SEGMENT/REGION TABLE DESCRIPTOR AND LENGTH IN FORMAT OF CRS 1 AND 7. SERIALIZED BY CS.
8	(8)	CHARACTER	8	ASTE1TA	TABLE ADDRESS. 0-51 OF THE ASCE, WITH 12 ZEROS APPENDED, FORM THE 64 BIT REAL ADDRESS OF THE SEGMENT/REGION TABLE.
8	(8)	BITSTRING	6	*	BYTES 0-5 OF THE ASCE
14	(E)	BITSTRING	1	ASTE1TFL	TABLE FLAGS
		1111		*	PART OF REAL ADDRESS
		.... 11..		ASTE1ASCEBITS52AND53	ASCE.52/53
		.... ..1.		ASTE1SUBSP	SUBSPACE-GROUP CONTROL (ONLY IN PSTD AND SSTD)
		1		ASTE1PVT	PRIVATE-SPACE CONTROL
15	(F)	BITSTRING	1	ASTE1TL	TABLE LENGTH (IN BITS 62-63), MINUS ONE, IN UNITS OF 4096 BYTES.
		1...		ASTE1SAEM	STORAGE ALTERATION EVENT MASK. IF ON, A STORAGE ALTERATION PER EVENT CAN OCCUR WITHIN THE DESIGNATED SPACE. SERIALIZED BY COMPARE AND SWAP.
		.1..		ASTE1SSEM	SPACE SWITCH EVENT MASK. IF 1, A PROGRAM INTERRUPT WILL BE PRESENTED ON COMPLETION OF A PC OR PT THAT CAUSES A SPACE SWITCH. SERIALIZED BY COMPARE AND SWAP.
		..1.		ASTE1REAL	REAL-SPACE CONTROL
		...1		*	UNUSED
		.... 11..		ASTE1DTYPE	DESIGNATION TYPE SEE CONSTANT ASTE1DTYPE_XXX. '00' = SEGMENT TABLE '01' = REGION 3RD TABLE '10' = REGION 2ND TABLE '11' = REGION 1ST TABLE. NOT USED WHEN REAL-SPACE
		11		ASTE1TLEN	TABLE LENGTH. NOT USED WHEN REAL-SPACE
16	(10)	ADDRESS	4	ASTE1PALD	PASN ACCESS LIST DESIGNATOR. BITS 1-24 WITH SEVEN ZEROES APPENDED ON THE RIGHT FORM THE 31-BIT REAL ADDRESS OF THE PASN ACCESS LIST. BITS 25-31 REPRESENT THE NUMBER OF 128 BYTE ACCESS LISTS, MINUS ONE.
20	(14)	UNSIGNED	4	ASTE1SQN	ASTE1 SEQUENCE NUMBER. (UNSIGNED)
24	(18)	CHARACTER	4	*	

Table 84. Structure ASTE1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	ADDRESS	4	ASTE1LTD	LINKAGE TABLE DESIGNATOR. BITS 1-24, WITH SEVEN LOW ORDER ZEROS APPENDED, FORM THE LINKAGE TABLE REAL ADDRESS. BITS 25-31 CONTAIN THE NUMBER OF 128 BYTE EXTENTS, MINUS ONE, IN THE LINKAGE TABLE. SERIALIZED BY THE PC/AUTH ADDRESS SPACE LOCAL LOCK.
		1...		ASTE1LTV	LINKAGE TABLE VALID FLAG. IF 1, LT IS VALID, IF 0, LT IS INVALID.
24	(18)	ADDRESS	4	ASTE1LFTD	LINKAGE FIRST TABLE DESIGNATOR. BITS 1-23, WITH EIGHT LOW ORDER ZEROS APPENDED, FORM THE LINKAGE FIRST TABLE REAL ADDRESS. BITS 24-31 CONTAIN THE NUMBER OF 256 BYTE EXTENTS, MINUS ONE, IN THE LINKAGE FIRST TABLE. SERIALIZED BY THE PC/AUTH ADDRESS SPACE LOCAL LOCK.
		1...		ASTE1LFTV	LINKAGE FIRST TABLE VALID FLAG. IF 1, LFT IS VALID, IF 0, LFT IS INVALID.
28	(1C)	ADDRESS	4	ASTE1PROG	ASTE1 PROGRAMMING WORD IF ADDRESS SPACE - CONTAINS ASCB ADDRESS.
		1111		ASTE1TYPE	ASTE1PROG TYPE INFORMATION: '0000'B - ADDRESS SPACE ASTE1 '1000'B - DATA SPACE ASTE1 '0100'B - SUBSPACE ASTE1
32	(20)	CHARACTER	12	ASTE1R020	RESERVED
44	(2C)	UNSIGNED	4	ASTE1IN	INSTANCE NUMBER
48	(30)	CHARACTER	16	ASTE1R030	RESERVED
64	(40)	CHARACTER	0	ASTE1END	END OF ASTE1.

Table 85. Constants for ASTE

Len	Type	Value	Name	Description
CONSTANTS FOR ASTE1DTYPE				
0	BIT	00	ASTE1DTYPE_ST	SEGMENT TABLE
0	BIT	01	ASTE1DTYPE_R3T	REGION 3RD TABLE
0	BIT	10	ASTE1DTYPE_R2T	REGION 2ND TABLE
0	BIT	11	ASTE1DTYPE_R1T	REGION 1ST TABLE
CONSTANTS FOR ASTE1TYPE				
0	BIT	1000	ASTE1DS	DATA SPACE ASTE1
0	BIT	0100	ASTE1SS	SUBSPACE ASTE1
0	BIT	0000	ASTE1AS	ADDRESS SPACE ASTE1
Constants for ASTE1ATL				
2	HEX	FFF0	ASTE1ATLMASK	Mask for obtaining ATL*16 from ASTE1ATL
2	HEX	0001	ASTE1ATLNONATLMASK	Mask for obtaining non-ATL bits used by MVS from ASTE1ATL

Table 86. Cross Reference for ASTE

Name	Offset	Hex Tag
ASTE1	0	
ASTE1ASCE	8	
ASTE1ASCEBITS52AND53	E	0C
ASTE1ATL	6	
ASTE1ATL0	6	
ASTE1ATL1	7	
ASTE1ATO	0	
ASTE1AX	4	
ASTE1CA	7	02
ASTE1DTYPE	F	0C
ASTE1END	40	
ASTE1ICMA	0	80
ASTE1IN	2C	
ASTE1LFTD	18	
ASTE1LFTV	18	80
ASTE1LTD	18	
ASTE1LTV	18	80
ASTE1PALD	10	
ASTE1PROG	1C	
ASTE1PVT	E	01
ASTE1RA	7	01
ASTE1REAL	F	20
ASTE1RV01	7	0C
ASTE1R020	20	
ASTE1R030	30	
ASTE1SAEM	F	80
ASTE1SQN	14	
ASTE1SSEM	F	40
ASTE1SUBSP	E	02
ASTE1TA	8	
ASTE1TFL	E	
ASTE1TL	F	
ASTE1TLEN	F	03
ASTE1TYPE	1C	F0

Chapter 24. ASVT Information

ASVT Programming Interface Information

ASVT is a programming interface.

ASVT Heading Information

Common Name:	Address Space Vector Table
Macro ID:	IHAASVT
DSECT Name:	ASVT
Owning Component:	Supervisor Control (SC1C5)
Eye-Catcher ID:	ASVTASVT Offset: 512 Length: 4
Storage Attributes:	Subpool: 245 Key: 0 Residency: Below 16M
Size:	Offset of ASVTEND minus offset of ASVTBEGN plus four times the value of ASVTMAXU.
Created by:	IEAVNP09
Pointed to by:	CVTASVT field of the CVT data area
Serialization:	General CMS lock and dispatcher lock
Function:	Mapping for the Address Space Vector Table

ASVT mapping

Table 87. Structure ASVT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ASVT	
0	(0)	CHARACTER	472	ASVTPRFX	RESERVED FOR FUTURE EXPANSION
472	(1D8)	DBL WORD	8	ASVTBEGN(0)	- BEGINNING OF ASVT
472	(1D8)	ADDRESS	4	ASVTREUA	ADDRESS OF ASVTREUS BITS
476	(1DC)	ADDRESS	4	ASVTRAVL	ADDRESS OF FIRST AVAILABLE REUSABLE ASID SLOT
480	(1E0)	SIGNED	4	ASVTAAV	NUMBER OF FREE SLOTS ON THE ASVT AVAILABLE QUEUE.
484	(1E4)	SIGNED	4	ASVTAST	NUMBER OF FREE SLOTS ON THE START/SASI QUEUE.
488	(1E8)	SIGNED	4	ASVTANR	NUMBER OF FREE SLOTS ON THE NON-REUSABLE REPLACEMENT QUEUE.
492	(1EC)	SIGNED	4	ASVTSTRT	ORIGINAL SIZE OF START/SASI QUEUE.
496	(1F0)	SIGNED	4	ASVTNONR	ORIGINAL SIZE OF NON-REUSABLE REPLACEMENT QUEUE.
500	(1F4)	SIGNED	4	ASVTMAXI	- ORIGINAL MAX USERS COUNT AS INPUT TO IEAVNP09. OWNERSHIP - SUPERVISOR CONTROL SERIALIZATION - NIP RIM PROCESS
504	(1F8)	BITSTRING	8		- RESERVED. WAS ASVTRSHD/DSHD
512	(200)	CHARACTER	4	ASVTASVT	- ACRONYM IN EBCDIC -ASVT-

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Table 87. Structure ASVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
516	(204)	SIGNED	4	ASVTMAXU	- MAXIMUM NUMBER OF ADDRESS SPACES
520	(208)	SIGNED	4	ASVTMDSC	- MAXUSER DEFICIT SLOT COUNT. ASVTMDSC = ASVTMAXI - ASVTAAV - NUMBER OF ACTIVE A.S. INCREMENTED WHEN WE TRY TO TAKE A REPLACEMENT SLOT BUT THERE AREN'T ANY. DECREMENTED WHEN NON-ZERO AND A NONREUSEABLE ASID BECOMES REUSEABLE AND WE ADD A SLOT TO THE MAXUSER POOL WHEN AN ADDRESS SPACE BECOMES REUSEABLE.
524	(20C)	ADDRESS	4	ASVTFRST	- ADDRESS OF FIRST AVAILABLE ASVT ENTRY (MDC300)
		1...		ASVTAVAI	"X'80'" - BIT ONE IF ASID IS AVAILABLE AND ZERO IF ASID IS ASSIGNED MDC002
528	(210)	ADDRESS	4	ASVTENTY	- ENTRY FOR EACH POSSIBLE ASID. IF ADDRESS SPACE ASSIGNED, ENTRY CONTAINS ADDRESS OF ASCB. IF NOT ASSIGNED, ENTRY CONTAINS EITHER ADDRESS OF NEXT AVAILABLE ASID OR ZEROS WITH HIGH-ORDER BIT ON IF LAST ENTRY. (MDC301) IF THE ADDRESS SPACE IS MARKED NON-REUSABLE, THE ENTRY CONTAINS THE ADDRESS OF MASTER'S ASVT ENTRY WITH THE HIGH BIT ON.
		1...		ASVTAVAL	"X'80'" - BIT ONE IF ASID IS AVAILABLE AND ZERO IF ASID IS ASSIGNED
528	(210)	X'214'	0	ASVTEND	"*" - END OF ASVT MDC003
528	(210)	X'214'	0	ASVTLEN	"ASVTEND-ASVT" - LENGTH OF ASVT INCLUDING RESERVED FIELDS MDC004
528	(210)	X'3C'	0	ASVTULEN	"ASVTEND-ASVTBEGN" - LENGTH OF USED FIELDS IN ASVT MDC005

Table 88. Cross Reference for ASVT

Name	Offset	Hex Tag
ASVT	0	
ASVTAAV	1E0	
ASVTANR	1E8	
ASVTAST	1E4	
ASVTASVT	200	
ASVTAVAI	20C	80
ASVTAVAL	210	80
ASVTBEGN	1D8	
ASVTEND	210	214
ASVTENTY	210	
ASVTFRST	20C	
ASVTLEN	210	214
ASVTMAXI	1F4	

Table 88. Cross Reference for ASVT (continued)

Name	Offset	Hex Tag
ASVTMAXU	204	
ASVTMDSC	208	
ASVTNONR	1F0	
ASVTPRFX	0	
ASVTRAVL	1DC	
ASVTREUA	1D8	
ASVTSTRT	1EC	
ASVTULEN	210	3C

Chapter 25. ASWA Information

ASWA Heading Information

Common Name:	Allocation STAE Work Area
Macro ID:	IEFZB453
DSECT Name:	ASWA
Owning Component:	Allocation (SC1B4)
Eye-Catcher ID:	ASWA Offset: 0 Length: 4
Storage Attributes:	Main Storage: NO Virtual Storage: YES Auxiliary Storage: YES Subpool: 230 Key: 1 Data Space: NO Residency: Any
Size:	80 decimal bytes
Created by:	IEFAB401, IEFAB4A0, IEFAB4EC, IEFAB4F4, IEFAB4F5, IEFAB421, IEFAB451, IEFAB493, IEFBB401, IEFBB410, IEFDB400
Pointed to by:	STCBAlcArea points to the last ASWA on chain.
Serialization:	None
Function:	Maps the Allocation STAE Work Area (ASWA), which is used in Allocation's recovery processing.

ASWA mapping

Table 89. Structure ASWA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	104	ASWA	ALOC STAE WORK AREA
0	(0)	CHARACTER	4	ASWAID	EBCDIC ID OF 'ASWA'
4	(4)	CHARACTER	8	ASWACSCT	EBCDIC NAME OF REC RTN TO GET CONTROL FOR THIS WORK AREA
12	(C)	ADDRESS	4	ASWARTNP	ADDRESS OF ABOVE CSECT
16	(10)	ADDRESS	4	ASWAPRMS	PTR TO PARMS IT SHOULD GET
20	(14)	ADDRESS	4	ASWASCBP	PTR TO STAE CONTROL BLOCK FOR ESTAE IN EFFECT WHEN THIS ASWA WAS BUILT
24	(18)	ADDRESS	4	ASWAOLDP	PTR TO LAST ASWA FOR A PRIOR ALLOC ESTAE - IF ANY
28	(1C)	CHARACTER	4	ASWAFLGS	FLAGS FOR SPECIAL PROCESSING
28	(1C)	BITSTRING	1	ASWADSWS	SPECIAL CHECKS FOR SDUMP
		1...		ASWADYNF	CHECK SVC99 FRR PERCOLATION
		.1..		ASWACOMF	CHECK COMMON FRR PERCOLATION
		..1.		ASWAVMVF	CHECK VM&V FRR PERCOLATION
		...1		ASWADYUE	CHECK DYNAMIC USER ERROR

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Table 89. Structure ASWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		ASWANOCH	THIS ASWA NOT CHAINED TO ASWA chain. PROCESS THIS ONE ESTAE EXIT ONLY
		.... .1..		ASWABND	CHECK IF EDT IS BOUND
		.... ..1.		*	Reserved (formerly ASWAALLO)
		1		*	RESERVED 3@01D
29	(1D)	BITSTRING	3	*	RESERVED
32	(20)	ADDRESS	4	ASWAAUTO	PTR TO AUTO DATA FOR COMMON ESTAE EXIT- 1ST ASWA ONLY
36	(24)	ADDRESS	4	ASWACHNP	PTR TO PRECEDING ASWA ON CHAIN
40	(28)	ADDRESS	4	ASWAMSGP	Pointer to the DOM message IDs
44	(2C)	CHARACTER	8	ASWAFCST	NAME OF FAILING CSECT OR FIRST CSECT IN FAILING SUBCOMP
52	(34)	CHARACTER	16	ASWAMLVL	PTF AND PRODUCT INFORMATION ON 'ASWAFCST'
52	(34)	CHARACTER	8	ASWADATE	COMPILE DATE
60	(3C)	CHARACTER	8	ASWAPTF	PTF OR PRODUCT LEVEL
68	(44)	ADDRESS	4	ASWAFTPT	POINT TO FOOTPRINT AREA
72	(48)	ADDRESS	4	ASWAEDTP	POINTER TO THE EDT
76	(4C)	ADDRESS	4	ASWAGBUF	GSPACE Buffer
80	(50)	SIGNED	4	ASWAGLEN	GSPACE Length
84	(54)	ADDRESS	4	ASWATREM	timed reminder object
88	(58)	CHARACTER	16	*	Reserved & available

Table 90. Structure ASWRECPM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	32	ASWRECPM	RECOVERY PARAMETERS
0	(0)	CHARACTER	1	*	
		1...		ASWABEND	RECOVERY WAS NEEDED
		.111 1111		*	RESERVED
1	(1)	CHARACTER	3	*	RESERVED
4	(4)	ADDRESS	4	ASWSAPRM	ADDRESS OF OPTIONAL COMMON ALLOCATION ESTAE EXIT PARAMETER BLOCK
8	(8)	CHARACTER	2	*	RESERVED
10	(A)	CHARACTER	22	ASWRUB	ASWA REGISTER UPDATE BLOCK
10	(A)	CHARACTER	2	ASWMASK	MASK VALUE FOR RUB
12	(C)	ADDRESS	4	ASWREG1	FIRST REGISTER IN RUB
16	(10)	ADDRESS	4	ASWREG2	SECOND REGISTER IN RUB
20	(14)	ADDRESS	4	ASWREG3	THIRD REGISTER IN RUB
24	(18)	ADDRESS	4	ASWREG4	FOURTH REGISTER IN RUB
28	(1C)	ADDRESS	4	ASWREG5	Fifth register in rub

Table 91. Structure ASWAFOOT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	12	ASWAFOOT	FOOTPRINT AREA
0	(0)	SIGNED	4	ASWAFLEN	FOOTPRINT AREA LENGTH
4	(4)	CHARACTER	8	ASWAFPNT	FOOTPRINT AREA

Table 92. Structure ASWACOMM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	STRUCTURE	8	ASWACOMM	COMMON ALLOCATION FOOTPRINT AREA
		11..		*	Reserved and available
		..1.		ASWAVENQ	Volume ENQ user exit
		...1		ASWAOFFL	Offline device user exit
		.... 1...		ASWASPEC	Specific wait user exit

Table 93. Structure ASWAVMV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	STRUCTURE	8	ASWAVMV	Volume Mount & Verify Footprint Area
		1...		ASWAVMNT	Volume mount user exit

Table 94. Structure ASWAMSGS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	12	ASWAMSGS	DOM message IDs
0	(0)	SIGNED	4	ASWAMSCT	Message count, initialized in IEFAB421/IEFAB493/IEFGB4DC
4	(4)	CHARACTER	8	ASWADMSS	
4	(4)	SIGNED	4	ASWAMSID	
8	(8)	SIGNED	4	ASWAEAMS	Eventual action message

Table 95. Cross Reference for ASWA

Name	Offset	Hex Tag
ASWA	0	
ASWAAUTO	20	
ASWABEND	0	80
ASWABND	1C	04
ASWACHNP	24	
ASWACOMF	1C	40
ASWACOMM	4	
ASWACSCT	4	
ASWADATE	34	
ASWADMSS	4	
ASWADSWS	1C	
ASWADYNF	1C	80
ASWADYUE	1C	10
ASWAEAMS	8	
ASWAEDTP	48	
ASWAFCST	2C	
ASWAFLEN	0	
ASWAFLGS	1C	
ASWAFOOT	0	
ASWAFPNT	4	
ASWAFTPT	44	
ASWAGBUF	4C	

Table 95. Cross Reference for ASWA (continued)

Name	Offset	Hex Tag
ASWAGLEN	50	
ASWAID	0	
ASWAMLVL	34	
ASWAMSCT	0	
ASWAMSGP	28	
ASWAMSGS	0	
ASWAMSID	4	
ASWANOCH	1C	08
ASWAOFFL	4	10
ASWAOLDP	18	
ASWAPRMS	10	
ASWAPTF	3C	
ASWARTNP	C	
ASWASCBP	14	
ASWASPEC	4	08
ASWATREM	54	
ASWAVENQ	4	20
ASWAVMNT	4	80
ASWAVMV	4	
ASWAVMVF	1C	20
ASWMASK	A	
ASWRECPM	0	
ASWREG1	C	
ASWREG2	10	
ASWREG3	14	
ASWREG4	18	
ASWREG5	1C	
ASWRUB	A	
ASWSAPRM	4	

Chapter 26. ASXB Information

ASXB Programming Interface Information

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

- ASXBFTCB
- ASXBITCB
- ASXBLTCB
- ASXBLWA
- ASXBSENV
- ASXBUSER
- ASXBUSR8

ASXB Heading Information

Common Name:	Address Space Extension Block
Macro ID:	IHAASXB
DSECT Name:	ASXB
Owning Component:	Supervisor Control (SC1C5)
Eye-Catcher ID:	ASXB Offset: 0 Length: 4
Storage Attributes:	Subpool: 255 Key: 0 Residency: Below the 16M line
Size:	Offset of ASXBEND minus the offset of ASXB
Created by:	SYSGEN IEAVEMIN
Pointed to by:	ASCBASXB
Serialization:	LOCAL lock
Function:	Contains information and pointers needed for address space control. The ASXB is swappable, and the ASCB is not.

ASXB mapping

Table 96. Structure ASXB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ASXB	ADDRESS SPACE EXTENSION BLOCK
0	(0)	DBL WORD	8	ASXBEGIN(0)	- BEGINNING OF ASXB
0	(0)	CHARACTER	4	ASXBASXB	- ACRONYM IN EBCDIC -ASXB-
4	(4)	ADDRESS	4	ASXBFTCB	- POINTER TO FIRST TCB ON TCB QUEUE
8	(8)	ADDRESS	4	ASXBLTCB	- POINTER TO LAST TCB ON TCB QUEUE
12	(C)	SIGNED	2	ASXBTCBS	- NUMBER TCB'S IN THE MEMORY
14	(E)	BITSTRING	1	ASXBFLG1	- Flags
		1...		ASXBHCRM	"X'80'" - Health Check AS resmgr set
15	(F)	BITSTRING	1	ASXBSCHD	- SCHEDULER FLAG BYTE

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Table 96. Structure ASXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		ASXBSWUP	"X'80'" - INDICATES THAT SWA SHOULD BE WRITTEN ABOVE THE LINE FOR THIS ADDRESS SPACE
16	(10)	ADDRESS	4	ASXBMPST	- ADDRESS OF VTAM MEMORY PROCESS SCHEDULING TABLE MDC015
20	(14)	ADDRESS	4	ASXBLWA	- ADDRESS OF LWA MDC016
24	(18)	ADDRESS	4	ASXBVFVT	- POINTER TO INTERNAL VIRTUAL FETCH VECTOR TABLE. OWNERSHIP - VIRTUAL FETCH. SERIALIZATION - LOCAL LOCK.
28	(1C)	ADDRESS	4	ASXBSAF	- ROUTER RRCB ADDRESS
32	(20)	ADDRESS	4	ASXBIHSA	- POINTER TO INTERRUPT HANDLERS SAVE AREA FOR LOCALLY LOCKED INTERRUPTS
36	(24)	SIGNED	4	ASXBFLSA(18)	- SAVE AREA FOR ANY FIRST LEVEL BRANCH ENTRY (MUST BE FIRST USER AFTER LOCAL LOCK IS OBTAINED)
108	(6C)	ADDRESS	4	ASXBOMCB	- POINTER TO OBJECT ACCESS METHOD CONTROL BLOCK
112	(70)	ADDRESS	4	ASXBSPSA	- POINTER TO LOCAL WORK/SAVE AREA VECTOR TABLE
116	(74)	ADDRESS	4	ASXBRSMD	- POINTER TO LOCAL RSM DATA AREA
120	(78)	ADDRESS	4	ASXBRCTD	- POINTER TO LOCAL RCT DATA AREA
124	(7C)	ADDRESS	4	ASXBDECB	- DUMP TASK ECB
128	(80)	ADDRESS	4	ASXBOUSB	- POINTER TO SYSTEM RESOURCES MANAGER (SRM) USER SWAPPABLE BLOCK MDC004
132	(84)	ADDRESS	4	ASXBCRWK	- CHECKPOINT/RESTART WORKAREA POINTER. OWNERSHIP - CHECKPOINT/RESTART. SERIALIZATION - NA.
136	(88)	CHARACTER	16	ASXBPRG	- SVC PURGE I/O PARAMETER LIST MDC003
152	(98)	CHARACTER	8	ASXBPSWD	- USER'S LOGON PASSWORD. IF BLANK, NOT REQUIRED MDC005
160	(A0)	ADDRESS	4	ASXBSIRB	- ADDRESS OF SIRB FOR THIS ADDRESS SPACE MDC010
164	(A4)	ADDRESS	4	ASXBETSK	- ADDRESS OF ERROR TASK FOR THIS ADDRESS SPACE MDC011
168	(A8)	CHARACTER	24	ASXBAEQ(0)	- QUEUE ANCHORS FOR EXIT EFFECTOR'S ASYNCHRONOUS EXIT QUEUES MDC012
168	(A8)	ADDRESS	4	ASXBFIQE	- POINTER TO FIRST IQE MDC006
172	(AC)	ADDRESS	4	ASXBLIQE	- POINTER TO LAST IQE MDC007
176	(B0)	ADDRESS	4	ASXBFRQE	- POINTER TO FIRST RQE MDC008
180	(B4)	ADDRESS	4	ASXBLRQE	- POINTER TO LAST RQE MDC009
184	(B8)	ADDRESS	4	ASXBFSRB	- ADDRESS OF FIRST SRB MDC013
188	(BC)	ADDRESS	4	ASXBLSRB	- ADDRESS OF LAST SRB MDC014
192	(C0)	CHARACTER	8	ASXBUSR8(0)	8-byte version of ASXBUSER
192	(C0)	CHARACTER	7	ASXBUSER	- USER ID FOR WHICH THE JOB OR SESSION IS BEING EXECUTED (MDC306)

Table 96. Structure ASXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
199	(C7)	BITSTRING	1		- Last byte of ASXBUSR8. ASXBSECR and ASXBSFLG are deleted
200	(C8)	ADDRESS	4	ASXBSENV	- ADDRESS OF ACCESS CONTROL ENVIRONMENT ELEMENT (MDC304)
204	(CC)	ADDRESS	4	ASXBSFRS	Address of SSI function request storage. Ownership: SSI Serialization: CS
208	(D0)	SIGNED	4	ASXBR0D0(0)	Reserved as of z/OS 1.11
208	(D0)	DBL WORD	8	ASXBNSDW_PREZOS11(0)	DOUBLEWORD CONTAINING THE NSSA POOL AND SYNCHRONIZATION COUNT. Not set as of z/OS 1.11
208	(D0)	ADDRESS	4	ASXBNSSA_PREZOS11	NSSA POOL. Not set as of z/OS 1.11
212	(D4)	SIGNED	4	ASXBNSCT_PREZOS11	COUNT USED TO SYNCHRONIZE THE NSSA POOL. Not set as of z/OS 1.11
212	(D4)	ADDRESS	4	ASXBTHTA	Address of Task Hash Table
216	(D8)	SIGNED	4	ASXBCASW(0)	- USED BY REGION CONTROL TASK (RCT)/CANCEL VIA CS INSTRUCTION (MDC313)
216	(D8)	BITSTRING	1	ASXBCRB1	- CANCEL/RCT BYTE 1 (MDC314)
		1...		ASXBPIP	"X'80'" - SET BY RCT TO INDICATE PURGE (SVC 16) IS IN PROCESS (MDC315)
		.1..		ASXBTFD	"X'40'" - SET BY CANCEL TO INDICATE THAT ALL SUBTASKS OF THE RCT HAVE BEEN SET DISPATCHABLE VIA STATUS (MDC316)
217	(D9)	BITSTRING	1	ASXBCRB2	- CANCEL/RCT BYTE 2 (MDC317)
218	(DA)	BITSTRING	1	ASXBCRB3	- CANCEL/RCT BYTE 3 (MDC318)
219	(DB)	BITSTRING	1	ASXBCRB4	- CANCEL/RCT BYTE 4 (MDC319)
220	(DC)	ADDRESS	4	ASXBPT0E	- POST EXIT QUEUE HEADER (MDC312)
224	(E0)	ADDRESS	4	ASXBCAPC	- Count of task mode UCB capture requests Ownership: IOS Serialization: Local Latch (Local Lock during NIP)
228	(E4)	ADDRESS	4	ASXBJSVT	- JES COMMUNICATION AREA POINTER. OWNERSHIP - JES2/3.
232	(E8)	ADDRESS	4	ASXBDIVW	- ADDRESS OF THE DIV WORK/SAVE AREA, OR ZERO IF NONE EXISTS
236	(EC)	ADDRESS	4	ASXBCAPT	- Pointer to IOS captured UCB object. Ownership: IOS Serialization: Local Latch (Local Lock during NIP)
240	(F0)	ADDRESS	4	ASXBLINF	- Latch information area Ownership: GRS Latch Serialization: LOCAL lock
244	(F4)	ADDRESS	4	ASXBPIRL	Pointer to queue of PIRLs. Ownership: IOS Serialization: local lock.

Table 96. Structure ASXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
248	(F8)	ADDRESS	4	ASXBITCB	- Initial jobstep TCB address attached by initiator (IEFSD263) or 0 when no job is running. This field is valid for any address space that goes through full-function start.
252	(FC)	ADDRESS	4	ASXBRZVP	- Address of RZV Control Table Ownership: IOS
256	(100)	ADDRESS	4	ASXBGRSP	- Address of GRS control information for this address space. Ownership: GRS Serialization: CS
260	(104)	ADDRESS	4	ASXBVASB	Address of VASB. Ownership: VSAM Serialization: CS
264	(108)	DBL WORD	8	ASXBALEC	AuthorizedLE Anchor Ownership: LE
272	(110)	DBL WORD	8	ASXBIFAR(0)	Range
272	(110)	ADDRESS	4	ASXBFXRS	Range Start
276	(114)	ADDRESS	4	ASXBFXRE	Range End
280	(118)	ADDRESS	4	ASXBEXTA	Local exits
284	(11C)	ADDRESS	4	ASXBAXRL	AXR local area Ownership: Sysrexx
288	(120)	DBL WORD	8	ASXB_MAPREQ_ADDR	MAPMVS tracking area address
296	(128)	SIGNED	4	ASXBLCPI	Loader CPOOL ID
300	(12C)	SIGNED	4	ASXBTCBPMEPOOLID	Pause Multiple CPOOL ID
304	(130)	BITSTRING	208	ASXBR130	Reserved
Start of x'200' primarily write cache line					
512	(200)	DBL WORD	8	ASXBNSDW(0)	DOUBLEWORD CONTAINING THE NSSA POOL AND SYNCHRONIZATION COUNT.
512	(200)	ADDRESS	4	ASXBNSSA	NSSA POOL.
516	(204)	SIGNED	4	ASXBNSCT	COUNT USED TO SYNCHRONIZE THE NSSA POOL.
520	(208)	BITSTRING	248	ASXBR208	Reserved
768	(300)	DBL WORD	8	ASXBEND(0)	- END OF ASXB
768	(300)	X'10'	0	ASXBTHT_NUMENTRIES	"16" Number of HT entries
768	(300)	X'40'	0	ASXBTHTL	"ASXBTHT_NumEntries*4" Task Hash Table length
768	(300)	X'F000'	0	ASXBTHT_MASK	"(ASXBTHT_NumEntries-1)*4096"
768	(300)	X'C'	0	ASXBTHT_SHIFT	"12" Amount to shift masked value to get the hash index

Table 97. Cross Reference for ASXB

Name	Offset	Hex Tag
ASXB	0	
ASXB_MAPREQ_ADDR	120	
ASXBAEQ	A8	
ASXBALEC	108	
ASXBASXB	0	
ASXBAXRL	11C	
ASXBCAPC	E0	
ASXBCAPT	EC	

Table 97. Cross Reference for ASXB (continued)

Name	Offset	Hex Tag
ASXBCASW	D8	
ASXBCRB1	D8	
ASXBCRB2	D9	
ASXBCRB3	DA	
ASXBCRB4	DB	
ASXBCRWK	84	
ASXBDECB	7C	
ASXBDIVW	E8	
ASXBEGIN	0	
ASXBEND	300	
ASXBETSK	A4	
ASXBEXTA	118	
ASXBFIQE	A8	
ASXBFLG1	E	
ASXBFLSA	24	
ASXBFRQE	B0	
ASXBFSRB	B8	
ASXBFTCB	4	
ASXBFXRE	114	
ASXBFXRS	110	
ASXBGRSP	100	
ASXBHCRM	E	80
ASXBIFAR	110	
ASXBIHSA	20	
ASXBITCB	F8	
ASXBJSVT	E4	
ASXBLCPI	128	
ASXBLINF	F0	
ASXBLIQE	AC	
ASXBLRQE	B4	
ASXBLSRB	BC	
ASXBLTCB	8	
ASXBLWA	14	
ASXBMPST	10	
ASXBNSCT	204	
ASXBNSCT_PREZOS11	D4	
ASXBNSDW	200	
ASXBNSDW_PREZOS11	D0	
ASXBNSSA	200	
ASXBNSSA_PREZOS11	D0	
ASXBOMCB	6C	
ASXBOUSB	80	
ASXBPIP	D8	80
ASXBPIRL	F4	
ASXBPRG	88	
ASXBPSWD	98	
ASXBPT0E	DC	
ASXBRCTD	78	
ASXBRSMD	74	

Table 97. Cross Reference for ASXB (continued)

Name	Offset	Hex Tag
ASXBRZVP	FC	
ASXBR0D0	D0	
ASXBR130	130	
ASXBR208	208	
ASXBSAF	1C	
ASXBSCHD	F	
ASXBSENV	C8	
ASXBSFRS	CC	
ASXBSIRB	A0	
ASXBSPSA	70	
ASXBSWUP	F	80
ASXBTCBPMEPOOLID	12C	
ASXBTCBS	C	
ASXBTFD	D8	40
ASXBTHT_MASK	300	F000
ASXBTHT_NUMENTRIES	300	10
ASXBTHT_SHIFT	300	C
ASXBTHTA	D4	
ASXBTHTL	300	40
ASXBUSER	C0	
ASXBUSR8	C0	
ASXBVASB	104	
ASXBVFVT	18	

Chapter 27. ATA Information

ATA Heading Information

Common Name:	ASM Tracking Area
Macro ID:	ILRATA
DSECT Name:	ATA
Owning Component:	Auxiliary Storage Manager (SC1CW)
Eye-Catcher ID:	None
Storage Attributes:	Virtual Storage: YES Subpool: 245 Key: 0 Data Space: NO Residency: Above 16 Megabytes virtual
Size:	24 Bytes
Created by:	ILRGOS or any ASM-issued SETFRR
Pointed to by:	Register 4 points to ATA after a SETFRR has been issued by an ASM module.
Serialization:	None
Function:	The ATA contains information necessary for the recovery or clean-up processing performed by the ASM recovery routines. The ATA is mapped to the six word work area returned by SETFRR when an FRR is established. For task mode routines, the ATA is mapped to the parameter area that is passed via the ESTAE macro.

ATA mapping

Table 98. Structure ATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	24	ATA	ASM Tracking Area
0	(0)	UNSIGNED	1	ATAMODID	ID of module establishing recovery routine
1	(1)	BITSTRING	3	ATASFLGS	Bit map representing logical sections of ASM routines, set to 1 on entry, set to 0 on exit
		1...		ATAIOPPR	ILRIODRV PROCPARE subroutine
		.1..		ATASLSQA	ILRSLSQA flag
		..1.		ATASCOMP	SWAPCOMP flag
		...1		ATAVIOCM	ILRVIOCM flag
		.... 1...		ATAPCOMP	PAGECOMP flag
		.... .1..		ATAPOS	ILRPOS flag
		.... ..1.		ATAIOBSL	ILRIODRV BLOCKSEL subroutine
		1		ATAPAGCM	ILRPAGCM flag
2	(2)	1...		ATASWAP	ILRSWAP flag
		.1..		ATATRPAG	ILRTRPAG flag
		..1.		ATASWPDR	ILRSWPDR flag
		...1		ATACPBLD	ILRCPBLD flag
		.... 1...		ATAIOSSL	ILRIODRV SLOTSEL subroutine
		.... .1..		ATAIOSCM	ILRIODRV STARTCOM subroutine
		.... ..1.		ATAIOMXA	ILRIODRV MIXAIA subroutine

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Table 98. Structure ATA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		ATAASPCT	ILRVIOCM in process of ASPCT update
3	(3)	1...		ATAPDCNV	LSID conversion routine processing
		.1..		ATA_MIGRATE_IO_COMP	MIGRATE_IO_COMP routine of ILRPAGCM in control
		..11 1111		ATARSV1	Reserved
4	(4)	BITSTRING	2	ATARFLGS	Other recovery flags
		1...		ATASGNST	ILRSLSQA flag - in ASIGNSET subroutine
		.1..		ATASCCWP	ILRSLSQA flag - in SCCWPROC subroutine
		..1.		ATABADPK	ILRCMPAE flag - in BADPACK routine
		...1		ATAPGVIO	VIO flag. 1 = Last PARTE processed accepted VIO data 0 = Last PARTE processed did not accept VIO data
		.... 1...		ATACPULK	CPU lock flag - used by ILRCMP. 1 = CPU lock obtained 0 = CPU lock not obtained
4	(4)	BITSTRING	1	ATARSV2	Reserved
6	(6)	BITSTRING	1	ATARCRSN	Recursion flags
		1...		ATARCRF1	Recursion flag - Function 1
		.1..		ATARCRF2	Recursion flag - Function 2
		..1.		ATARCRF3	Recursion flag - Function 3
		...1		ATARCRF4	Recursion flag - Function 4
		.... 1...		ATARCRF5	Recursion flag - Function 5
		.... .1..		ATARCRF6	Recursion flag - Function 6
		.... ..1.		ATARCRF7	Recursion flag - Function 7
		1		ATARCRF8	Recursion flag - Function 8
7	(7)	UNSIGNED	1	ATARCODE	Reason code for ASM-issued abends
8	(8)	CHARACTER	16	ATACLEAR	Definition allowing next 4 words to be cleared
8	(8)	ADDRESS	4	ATAIOSB	Address of in-process IOSB
12	(C)	ADDRESS	4	ATAPCCWQ	Queue of PCCWs to be put on the available PCCW queue
16	(10)	ADDRESS	4	ATACOMPQ	Queue of AIAs to be returned to ILRPAGCM
20	(14)	ADDRESS	4	ATACPCCW	Address of in-process PCCW, not on IORB queue and not on ATAPCCWQ

Table 99. Constants for ATA

Len	Type	Value	Name	Description
1	HEX	01	ATAMIODR	ILRIODRV module ID
1	HEX	02	ATAMPGCM	ILRPAGCM module ID
1	HEX	03	ATAMSWAP	ILRSWAP module ID
1	HEX	04	ATAMTRPG	ILRTRPAG module ID
1	HEX	05	ATAMSWPD	ILRSWPDR module ID
1	HEX	06	ATAMGOS	ILRGOS module ID

Table 99. Constants for ATA (continued)

Len	Type	Value	Name	Description
1	HEX	07	ATAMVIOD	ILRVIODR module ID
1	HEX	08	ATAMSRBC	ILRSRBC module ID
1	HEX	09	ATAMCMPD	ILRCMPDI module ID
1	HEX	0A	ATAMCMPN	ILRCMPNE module ID
1	HEX	0B	ATAMCMPA	ILRCMPAE module ID
1	HEX	0C	ATAMCMP	ILRCMP module ID
1	HEX	0D	ATAMREDV	ILREDRV module ID
1	HEX	0E	ATAMCMPP	ILRCMPCI module ID
1	HEX	0F	ATAMCMNT	ILRCMPNT module ID
1	HEX	10	ATAMSWIO	ILRSWLIO module ID
1	HEX	11	ATAMSPIN	ILRSWPIN module ID
1	HEX	12	ATAMSWOU	ILRSWAPO module ID
1	HEX	13	ATAMSIO	ILRSIO module ID
1	HEX	14	ATAMPGFL	ILRPGFLT module ID
1	HEX	15	ATAMFRSL	ILRFRSLT module ID
1	HEX	16	ATAMFRSW	ILRFRSWP module ID
1	HEX	17	ATAMFRSU	ILRFRSLU module ID
1	HEX	18	ATAMSWSC	ILRSWSCN module ID
1	HEX	19	ATAMMIGR	ILRMIGRT module ID
1	HEX	20	ATAMMIGS	ILRMIGRS module ID
1	HEX	21	ATAFRTST	ILRFRTST module ID
1	HEX	22	ATACTBD	ILRCTBD module ID
1	HEX	23	ATAPDVIO	ILRPDVIO module ID
1	HEX	24	ATAMFRSB	ILRFRSRB module ID
1	HEX	25	ATAMESQR	ILRESQRY module ID
1	HEX	26	ATAMMVES	ILRMOVES module ID
1	HEX	27	ATAMUPDA	ILRUPDAC module ID
1	HEX	28	ATAMUPBC	ILRUPDBC module ID
1	HEX	29	ATAMSCMS	ILRSCMRB module ID

Table 100. Cross Reference for ATA

Name	Offset	Hex Tag
ATA	0	
ATA_MIGRATE_IO_COMP	3	40
ATAASPCT	2	01
ATABADPK	4	20
ATACLEAR	8	
ATACOMPQ	10	
ATACPBLD	2	10
ATACPCCW	14	
ATACPULK	4	08
ATAIOBSL	1	02
ATAIOMXA	2	02
ATAIOPPR	1	80
ATAIOSB	8	
ATAIOSCM	2	04
ATAIOSSL	2	08
ATAMODID	0	
ATAPAGCM	1	01
ATAPCCWQ	C	

Table 100. Cross Reference for ATA (continued)

Name	Offset	Hex Tag
ATAPCOMP	1	08
ATAPDCNV	3	80
ATAPGVIO	4	10
ATAPOS	1	04
ATARCODE	7	
ATARCRF1	6	80
ATARCRF2	6	40
ATARCRF3	6	20
ATARCRF4	6	10
ATARCRF5	6	08
ATARCRF6	6	04
ATARCRF7	6	02
ATARCRF8	6	01
ATARCRSN	6	
ATARFLGS	4	
ATARSV1	3	3F
ATARSV2	4	
ATASCCWP	4	40
ATASCOMP	1	20
ATASFLGS	1	
ATASGNST	4	80
ATASLSQA	1	40
ATASWAP	2	80
ATASWPDR	2	20
ATATRPAG	2	40
ATAVIOCM	1	10

Chapter 28. ATBAPPCA Information

ATBAPPCA Programming Interface Information

ATBAPPCA is a programming interface.

ATBAPPCA Heading Information

Common Name:	APPC Component Control Block
Macro ID:	ATBAPPCA
DSECT Name:	ATBAPPCA
Owning Component:	APPC Component (SCACB)
Eye-Catcher ID:	ATBAPPC Offset: 0 Length: 8
Storage Attributes:	Subpool: Subpool 241 Key: 1 Residency: Above 16 Meg
Size:	See Assembler listing for ATBAPPCA
Created by:	ATBINSYS - the APPC System initialization
Pointed to by:	ECVTAPPC field of data area ECVT
Serialization:	None
Function:	Mapping of APPC/MVS specific information that is available for use by the installation.

ATBAPPCA mapping

Table 101. Structure ATBAPPCA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATBAPPCA	APPC Control Block
0	(0)	DBL WORD	8	(0)	Align on doubleword boundary
0	(0)	CHARACTER	8	APPC_ID	Identifier 'ATBAPPC'
8	(8)	CHARACTER	2	APPC_VER	Version number
10	(A)	SIGNED	2	APPC_LENGTH	Length of ATBAPPC
12	(C)	CHARACTER	4		Align on double word boundary
16	(10)	CHARACTER	8	APPC_GROUP_NAME	Name of APPC/XCF group
24	(18)	CHARACTER	4	APPC_BUFFER_STOR	Buffer storage limit
28	(1C)	CHARACTER	7	APPC_CONVBUFF	Buffer limit for each conversation in Kbytes
35	(23)	CHARACTER	5	APPC_CONVMAX	APPC active conversation threshold for an AS
40	(28)	CHARACTER	8	APPC_LOGGING	APPC LOGGING setting will have the value LEGACY, RRSGNAME or all blanks
48	(30)	CHARACTER	8	APPC_RRSGNAME	Value of RRS GNAME when LOGGING=RRSGNAME
56	(38)	CHARACTER	7	APPC_CMACTION	Action APPC takes when CONVMAX threshold is reached
63	(3F)	CHARACTER	25	APPC_FREE	Expansion area
88	(58)	DBL WORD	8	(0)	Align on doubleword boundary

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ATBAPPCA mapping

Table 102. Cross Reference for ATBAPPCA

Name	Offset	Hex Tag
APPC_BUFFER_STOR	18	
APPC_CMACTION	38	
APPC_CONVBUFF	1C	
APPC_CONVMAX	23	
APPC_FREE	3F	
APPC_GROUP_NAME	10	
APPC_ID	0	
APPC_LENGTH	A	
APPC_LOGGING	28	
APPC_RRSGNAME	30	
APPC_VER	8	
ATBAPPCA	0	

Chapter 29. ATBASASM Information

ATBASASM Programming Interface Information

ATBASASM is a programming interface.

ATBASASM Heading Information

Common Name:	Interface Declaration File for APPC/MVS Version Service - Assembler
Macro ID:	ATBASASM
DSECT Name:	N/A
Owning Component:	APPC Component (SCACB)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: N/A Key: N/A Residency: N/A
Size:	N/A
Created by:	N/A
Pointed to by:	N/A
Serialization:	none
Function:	ATBASASM contains the Assembler language declarations for parameter values for the APPC/MVS Version Service

ATBASASM mapping

Table 103. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

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Table 103. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
  START OF SPECIFICATIONS
01 MACRO NAME: ATBASASM
01 DSECT NAME: N/A
01 DESCRIPTIVE NAME: Interface Declaration File for APPC/MVS
                     Version Service - Assembler
02 ACRONYM: ATBASASM
01 COMPONENT: APPC Component (SCACB)
01 EYE-CATCHER: NONE
02 OFFSET: N/A
02 LENGTH: N/A
 01 PROPRIETARY STATEMENT=
    PROPRIETARY_STATEMENT
   LICENSED MATERIALS - PROPERTY OF IBM
   5694-A01COPYRIGHT IBM CORP. 1992, 2005
   STATUS= HBB7720
  END_OF_PROPRIETARY_STATEMENT
01 FUNCTION:
02 ATBASASM contains the Assembler language declarations for
       parameter values for the APPC/MVS Version Service
01 EXTERNAL CLASSIFICATION: GUPI
01 END OF EXTERNAL CLASSIFICATION:
01 METHOD OF ACCESS:
02 ASM: ATBASASM
01 POINTED TO BY: N/A
01 CREATED BY: N/A
01 DELETED BY: N/A
01 STORAGE ATTRIBUTES:
02 SUBPOOL: N/A
02 KEY: N/A
02 RESIDENCY: N/A
01 SIZE: N/A
01 SERIALIZATION: none
01 DISTRIBUTION LIBRARY: MACLIB
01 CHANGE-ACTIVITY:
 Flag LineItem FMID DATE ID Comment
    $D0=DKI0020 JBB4422 910503 PDB7: Advanced Program-to-Program
        communication for MVS/ESA, initial release.
        Support for Callable Service Versioning Line Item.
    $L1=APPCSSF HBB4430 920318 PDG9: Advanced Program-to-Program
        Communication for MVS/ESA, Callable Transaction Services
        Add new version number
    $P1=PIG4272 HBB5510 930510 PDB7: Advanced Program-to-Program
        Communication for MVS/ESA, add new version number.
    $P2=PIG1994 HBB5510 930621 PDB7: Advanced Program-to-Program
        Communication for MVS/ESA, update version.
    $P3=PN70191 HBB5520 940210 PDCO: Advanced Program-to-Program
        Communication for MVS/ESA, update eye-cathcer
```

```
    $L2=APPCP HBB6603 951012 PDC9: Protected Conversations
        support. Add version number for OS/390 Release 3.
    $P4=PQC0919 HBB6603 950325 PDPB: SHOWHDR conformance
    $01=OW33764 HBB6603 980510 PDCO: APPC/MVS Timeout support
    $L3=APPCTO HBB7720 031222 PDI8: APPC One Second Conversational
        Timeout Enhancement
    $P5=ME02092 HBB7720 041014 PDI8: Copyright Update
  END OF SPECIFICATIONS
```

0	(0)	SIGNED	4	ATBATP_FW0
4	(4)	SIGNED	4	ATBATP_FW1
8	(8)	SIGNED	4	ATBATP_FW2
12	(C)	SIGNED	4	ATBATP_FW3

Table 103. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	SIGNED	4	ATBATP_FW4	
20	(14)	SIGNED	4	ATBATP_FW5	
24	(18)	SIGNED	4	ATBATP_FW6	
28	(1C)	SIGNED	4	ATBATP_FW48	
Version Numbers returned by the Version Service					
28	(1C)	X'4'	0	ATBVERS_422_VERSION	"ATBATP_FW1"
28	(1C)	X'8'	0	ATBVERS_430_VERSION	"ATBATP_FW2"
28	(1C)	X'C'	0	ATBVERS_510_VERSION	"ATBATP_FW3"
28	(1C)	X'10'	0	ATBVERS_OS390R3_VERSION	"ATBATP_FW4"
28	(1C)	X'14'	0	ATBVERS_OS390R8_VERSION	"ATBATP_FW5"
28	(1C)	X'18'	0	ATBVERS_ZOSV1R7_VERSION	"ATBATP_FW6"
RETURN CODE VALUES Common Return Code Values The requested service was completed successfully					
28	(1C)	X'0'	0	ATBATP_SUCCESSFUL	"ATBATP_FW0"
Return Codes for ATBVERS Service Failure					
28	(1C)	X'1C'	0	ATBVERS_SERVICE_FAILURE	"ATBATP_FW48"

Table 104. Cross Reference for ATBASASM

Name	Offset	Hex Tag
ATBATP_FW0	0	0
ATBATP_FW1	4	1
ATBATP_FW2	8	2
ATBATP_FW3	C	3
ATBATP_FW4	10	4
ATBATP_FW48	1C	30
ATBATP_FW5	14	5
ATBATP_FW6	18	6
ATBATP_SUCCESSFUL	1C	0
ATBVERS_OS390R3_VERSION	1C	10
ATBVERS_OS390R8_VERSION	1C	14
ATBVERS_SERVICE_FAILURE	1C	1C
ATBVERS_ZOSV1R7_VERSION	1C	18
ATBVERS_422_VERSION	1C	4
ATBVERS_430_VERSION	1C	8
ATBVERS_510_VERSION	1C	C

Chapter 30. ATBCSASM Information

ATBCSASM Programming Interface Information

ATBCSASM is a programming interface.

ATBCSASM Heading Information

Common Name:	Interface Declaration File for APPC/MVS Callable System Services - Assembler
Macro ID:	ATBCSASM
DSECT Name:	none
Owning Component:	APPC Component (SCACB)
Eye-Catcher ID:	N/A Offset: N/A Length: N/A
Storage Attributes:	Subpool: N/A Key: N/A Residency: N/A
Size:	N/A
Created by:	N/A
Pointed to by:	N/A
Serialization:	none
Function:	ATBCSASM contains the Assembler language declarations for parameter values for the APPC/MVS Callable System Services

ATBCSASM mapping

Table 105. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

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Table 105. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
  START OF SPECIFICATIONS
01 MACRO NAME: ATBCSASM
01 DSECT NAME: none
01 DESCRIPTIVE NAME: Interface Declaration File for APPC/MVS
                     Callable System Services - Assembler
02 ACRONYM: ATBCSASM
01 COMPONENT: APPC Component (SCACB)
01 EYE-CATCHER: N/A
02 OFFSET: N/A
02 LENGTH: N/A
01 PROPRIETARY STATEMENT=
    PROPRIETARY_STATEMENT
   LICENSED MATERIALS - PROPERTY OF IBM
   5645-001 COPYRIGHT IBM CORP. 1990, 1997
   STATUS= HBB6603
    END_OF_PROPRIETARY_STATEMENT
01 EXTERNAL CLASSIFICATION: GUPI
01 END OF EXTERNAL CLASSIFICATION:
01 FUNCTION:
02 ATBCSASM contains the Assembler language declarations for
       parameter values for the APPC/MVS Callable System Services
01 METHOD OF ACCESS:
02 ASM: ATBCSASM
01 POINTED TO BY: N/A
01 CREATED BY: N/A
01 STORAGE ATTRIBUTES:
02 SUBPOOL: N/A
02 KEY: N/A
02 RESIDENCY: N/A
01 SIZE: N/A
01 SERIALIZATION: none
01 DISTRIBUTION LIBRARY: MACLIB
01 CHANGE-ACTIVITY:
 Flag LineItem FMID DATE ID Comment
    $P0=PH31223 HBB4420 900917 PDB7: Advanced Program-to-Program
        communication for MVS/ESA, initial release.
    $P1=PKI0021 JBB4422 900928 PDB7: Advanced Program-to-Program
        communication for MVS/ESA, update with new constants
    $P2=PKI0234 JBB4422 910510 PDB7: Advanced Program-to-Program
        communication for MVS/ESA, update with new constants for
        Cleanup TP and Cleanup AS
    $P3=PKI0241 JBB4422 910510 PDCO: Add 'User_Not_Auth_For_TP' sense
     code back since SP422 supports PV Receive.
    $L1=APPCSTS HBB4430 920211 PDAC: Provide support for Server
        Facilities. Add new return code for Associate service to
        be returned when an attempt was made to Associate a TP that
        is owned by a server address space. Add new return code
        for Identify service to be returned when a server address
        space tries to issue the Identify service.
    $L2=APPCP HBB6603 960105 PDE6: ATBIDN4 support
    $P4=PQC0919 HBB6603 950325 PDPB: SHOWHDR conformance
  END OF SPECIFICATIONS
```

0	(0)	SIGNED	4	ATBCSS_FW0
4	(4)	SIGNED	4	ATBCSS_FW1
8	(8)	SIGNED	4	ATBCSS_FW2
12	(C)	SIGNED	4	ATBCSS_FW3
16	(10)	SIGNED	4	ATBCSS_FW4
20	(14)	SIGNED	4	ATBCSS_FW5
24	(18)	SIGNED	4	ATBCSS_FW6

Table 105. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	SIGNED	4	ATBCSS_FW7	
32	(20)	SIGNED	4	ATBCSS_FW8	
36	(24)	SIGNED	4	ATBCSS_FW12	
40	(28)	SIGNED	4	ATBCSS_FW14	
44	(2C)	SIGNED	4	ATBCSS_FW16	
48	(30)	SIGNED	4	ATBCSS_FW18	
52	(34)	SIGNED	4	ATBCSS_FW20	
56	(38)	SIGNED	4	ATBCSS_FW22	
60	(3C)	SIGNED	4	ATBCSS_FW24	
64	(40)	SIGNED	4	ATBCSS_FW26	
68	(44)	SIGNED	4	ATBCSS_FW28	
72	(48)	SIGNED	4	ATBCSS_FW30	
76	(4C)	SIGNED	4	ATBCSS_FW38	
80	(50)	SIGNED	4	ATBCSS_FW40	
Function Values for Control Service					
80	(50)	X'0'	0	ATBCNTL_HALT_INPUT	"ATBCSS_FW0"
80	(50)	X'4'	0	ATBCNTL_RESUME_INPUT	"ATBCSS_FW1"
80	(50)	X'8'	0	ATBCNTL_HALT_ALL_INPUT	"ATBCSS_FW2"
80	(50)	X'C'	0	ATBCNTL_RESUME_ALL_INPUT	"ATBCSS_FW3"
Condition Values for Cleanup AS Service					
80	(50)	X'0'	0	ATBCMAS_NORMAL_CLEANUP	"ATBCSS_FW0"
80	(50)	X'4'	0	ATBCMAS_SYSTEM_CLEANUP	"ATBCSS_FW1"
Notify Type Values for Cleanup AS Service					
80	(50)	X'0'	0	ATBCMAS_NOTIFY_TYPE_NONE	"ATBCSS_FW0"
80	(50)	X'4'	0	ATBCMAS_NOTIFY_TYPE_ECB	"ATBCSS_FW1"
Condition Values for Cleanup TP Service					
80	(50)	X'0'	0	ATBCMTP_NORMAL_CLEANUP	"ATBCSS_FW0"
80	(50)	X'4'	0	ATBCMTP_SYSTEM_CLEANUP	"ATBCSS_FW1"
80	(50)	X'8'	0	ATBCMTP_TP_NOT_AVAIL_NO_RETRY	"ATBCSS_FW2"
80	(50)	X'C'	0	ATBCMTP_TP_NOT_AVAIL_RETRY	"ATBCSS_FW3"
80	(50)	X'10'	0	ATBCMTP_TPN_NOT_RECOGNIZED	"ATBCSS_FW4"
80	(50)	X'14'	0	ATBCMTP_SECURITY_NOT_VALID	"ATBCSS_FW5"
80	(50)	X'18'	0	ATBCMTP_SYNC_LEVEL_NOT_SPT_PGM	"ATBCSS_FW6"
80	(50)	X'1C'	0	ATBCMTP_USER_NOT_AUTH_FOR_TP	"ATBCSS_FW7"
Notify Type Values for Cleanup TP Service					
80	(50)	X'0'	0	ATBCMTP_NOTIFY_TYPE_NONE	"ATBCSS_FW0"
80	(50)	X'4'	0	ATBCMTP_NOTIFY_TYPE_ECB	"ATBCSS_FW1"
TP Profile Processing Values for Identify Service					
80	(50)	X'0'	0	ATBIDEN_PROFILE_REQUIRED	"ATBCSS_FW0"
80	(50)	X'4'	0	ATBIDEN_PROFILE_OPTIONAL	"ATBCSS_FW1"
LU Initial Status Values for Identify Service					
80	(50)	X'0'	0	ATBIDEN_LU_INIT_STAT_ACTIVE	"ATBCSS_FW0"

Table 105. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
80	(50)	X'4'	0	ATBIDEN_LU_INIT_STAT_OUTBOUND	"ATBCSS_FW1"
Prohibit_default_lu values for Set AS Attributes Service					
80	(50)	X'0'	0	ATBSASA_PROHIBIT_DEFAULT_LU_NO	"ATBCSS_FW0"
80	(50)	X'4'	0	ATBSASA_PROHIBIT_DEFAULT_LU_YES	"ATBCSS_FW1"
Unidentify_type values for Unidentify Service					
80	(50)	X'0'	0	ATBUNID_UNIDENT_TYPE_NORMAL	"ATBCSS_FW0"
80	(50)	X'4'	0	ATBUNID_UNIDENT_TYPE_IMMEDIATE	"ATBCSS_FW1"
RETURN CODE VALUES Common Return Code Values The requested service was completed successfully					
80	(50)	X'0'	0	ATB_SUCCESSFUL	"ATBCSS_FW0"
The requested service is not supported in the callers environment.					
84	(54)	SIGNED	4	ATB_INVALID_ENVIRONMENT	
The requested service must be invoked from a transaction scheduler address space					
88	(58)	SIGNED	4	ATB_AS_MUST_BE_A_TS	
The requested service must be invoked from a transaction scheduler address space or from a transaction scheduler subordinate address space					
92	(5C)	SIGNED	4	ATB_AS_MUST_BE_A_TS_OR_SUB	
The requested service can not be called from a transaction scheduler subordinate address space or have outstanding conversations					
96	(60)	SIGNED	4	ATB_AS_CANT_BE_SUB_OR_HAVE_CONV	
APPC/MVS is not currently active					
100	(64)	SIGNED	4	ATB_APPC_NOT_ACTIVE	
APPC/MVS services failure					
104	(68)	SIGNED	4	ATB_APPC_SERVICES_FAILURE	
Return Codes for Associate Service The TPID specified is not valid					
104	(68)	X'20'	0	ATBASOC_INVALID_TPID	"ATBCSS_FW8"
The new address space is already associated with a TPID					
104	(68)	X'24'	0	ATBASOC_AS_ALREADY_ASSOCIATED	"ATBCSS_FW12"
A TPID of zero was specified and Current_ASCB_Ptr is for a transaction scheduler					
104	(68)	X'2C'	0	ATBASOC_ZERO_TPID_INVAL_FOR_TS	"ATBCSS_FW16"

Table 105. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		The New_ASCB_Ptr parameter was not valid			
104	(68)	X'34'	0	ATBASOC_INVALID_NEW_ASCB_PTR	"ATBCSS_FW20"
		The Current_ASCB_Ptr parameter was not valid			
104	(68)	X'3C'	0	ATBASOC_INVALID_CURRENT_ASCBPTR	"ATBCSS_FW24"
		The Transaction Program to be associated has an active APPC request outstanding			
104	(68)	X'44'	0	ATBASOC_APPC_REQUEST_OUTSTAND	"ATBCSS_FW28"
		The combination of parameters is not valid			
104	(68)	X'48'	0	ATBASOC_INVALID_PARM_COMB	"ATBCSS_FW30"
		The TP to be associated is owned by a server address space			
104	(68)	X'4C'	0	ATBASOC_TP_OWNED_BY_SERVER	"ATBCSS_FW38"
		Return Codes for Connect Service The ASCB_Ptr parameter was not valid			
104	(68)	X'10'	0	ATBCONN_INVALID_ASCB_PTR	"ATBCSS_FW4"
		The Connect request was rejected because either the address space specified is already connected to a transaction scheduler or the address space has outstanding APPC conversations			
104	(68)	X'20'	0	ATBCONN_CONNECT_REJECTED	"ATBCSS_FW8"
		Return Codes for Cleanup AS No conversations exist to be cleaned up			
104	(68)	X'10'	0	ATBCMAS_NO_CONVERSATIONS	"ATBCSS_FW4"
		The ASCB_Ptr parameter was not valid			
104	(68)	X'20'	0	ATBCMAS_INVALID_ASCB	"ATBCSS_FW8"
		Failure in establishing the asynchronous thread			
104	(68)	X'24'	0	ATBCMAS_ASYNC_FAILURE	"ATBCSS_FW12"
		Return Codes for Cleanup TP No conversations exist to be cleaned up			
104	(68)	X'10'	0	ATBCMTP_NO_CONVERSATIONS	"ATBCSS_FW4"
		The TPID parameter specifies a non-existant TP instance			
104	(68)	X'20'	0	ATBCMTP_INVALID_TPID	"ATBCSS_FW8"
		Failure in establishing the asynchronous thread			
104	(68)	X'24'	0	ATBCMTP_ASYNC_FAILURE	"ATBCSS_FW12"
		Return Codes for Control Service Request accepted. One or more LUs were not immediately affected			
104	(68)	X'10'	0	ATBCNTL_LU_AFFECTED_LATER	"ATBCSS_FW4"

Table 105. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		The LU name specified is not valid or does not belong to calling transaction scheduler			
104	(68)	X'20'	0	ATBCNTL_LU_NOT_ASSIGNED_TO_TS	"ATBCSS_FW8"
		The LU is in a state that can not be changed by this service			
104	(68)	X'24'	0	ATBCNTL_INVALID_LU_STATE	"ATBCSS_FW12"
		The function code specified is not valid			
104	(68)	X'2C'	0	ATBCNTL_INVALID_FUNCTION	"ATBCSS_FW16"
		Return Codes for Disconnect Service The ASCB_Ptr parameter was not valid			
104	(68)	X'10'	0	ATBDCON_INVALID_ASCB_PTR	"ATBCSS_FW4"
		The address space specified is not a subordinate address space connected to the calling transaction scheduler			
104	(68)	X'20'	0	ATBDCON_NOT_CONNECTED	"ATBCSS_FW8"
		Return Codes for Define Local TP Service The LU name specified is not valid or does not belong to calling transaction scheduler			
104	(68)	X'10'	0	ATBDFTP_LU_NOT_ASSIGNED_TO_TS	"ATBCSS_FW4"
		The TP name is not a valid character string			
104	(68)	X'20'	0	ATBDFTP_INVALID_TP_NAME	"ATBCSS_FW8"
		Return Codes for Identify Service Request accepted. No base LUs are present			
104	(68)	X'10'	0	ATBIDEN_NO_BASE_LU	"ATBCSS_FW4"
		Request accepted. No applicable LU names found			
104	(68)	X'20'	0	ATBIDEN_NO_LUS	"ATBCSS_FW8"
		The calling transaction scheduler address space has already identified itself with the same name			
104	(68)	X'24'	0	ATBIDEN_IDENTIFIED_SAME_NAME	"ATBCSS_FW12"
		The calling transaction scheduler address space has already identified itself but with a different name			
104	(68)	X'28'	0	ATBIDEN_IDENTIFIED_DIFF_NAME	"ATBCSS_FW14"
		The transaction scheduler name is already in use			
104	(68)	X'2C'	0	ATBIDEN_SCHED_NAME_IN_USE	"ATBCSS_FW16"
		The loading of the conversion exit was unsuccessful			
104	(68)	X'30'	0	ATBIDEN_EXIT_LOAD_FAILED	"ATBCSS_FW18"
		The scheduler name parameter is not valid			
104	(68)	X'34'	0	ATBIDEN_INVALID_SCHED_NAME	"ATBCSS_FW20"
		The Conversion exit name passed in is not valid			

Table 105. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
104	(68)	X'38'	0	ATBIDEN_INVALID_EXIT_NAME	"ATBCSS_FW22"
	The TP_Profile_Processing parameter value is not valid				
104	(68)	X'3C'	0	ATBIDEN_INVALID_TP_PROF_PROC	"ATBCSS_FW24"
	The Resource_Manager_Name parameter value is not valid				
104	(68)	X'40'	0	ATBIDEN_RM_NAME_NOT_VALID	"ATBCSS_FW26"
	The LU_initial_status parameter is not valid				
104	(68)	X'44'	0	ATBIDEN_INVALID_LU_INIT_STATUS	"ATBCSS_FW28"
	The Identify service was issued from a server address space				
104	(68)	X'50'	0	ATBIDEN_IDENTIFIED_FROM_SERVER	"ATBCSS_FW40"
	Return Codes for Unidentify Service The unidentify type parameter contains an unknown value				
104	(68)	X'2C'	0	ATBUNID_INVALID_UNIDENTIFY_TYPE	"ATBCSS_FW16"
	Return Codes for Join SysAppc Group Service XCF failed or request is denied by XCF				
104	(68)	X'20'	0	ATBMIGRP_XCF_FAILED	"ATBCSS_FW8"
	The caller is not running in supervisor state or key 0-7				
104	(68)	X'50'	0	ATBMIGRP_CALLER_NOT_SUP_KEY0_7	"ATBCSS_FW40"
	Return Codes for Set Address Space Attributes Service The ASCB_Ptr parameter was not valid				
104	(68)	X'10'	0	ATBSASA_INVALID_ASCB_PTR	"ATBCSS_FW4"
	The Default_LU_designation parameter is not valid				
104	(68)	X'20'	0	ATBSASA_INVALID_PROHIBIT_VALUE	"ATBCSS_FW8"
	The caller is not running in supervisor state or key 0-7				
104	(68)	X'50'	0	ATBSASA_CALLER_NOT_SUP_KEY0_7	"ATBCSS_FW40"

Table 106. Cross Reference for ATBCSASM

Name	Offset	Hex Tag
ATB_APPC_NOT_ACTIVE	64	2C
ATB_APPC_SERVICES_FAILURE	68	30
ATB_AS_CANT_BE_SUB_OR_HAVE_CONV	60	26
ATB_AS_MUST_BE_A_TS	58	22
ATB_AS_MUST_BE_A_TS_OR_SUB	5C	24
ATB_INVALID_ENVIRONMENT	54	20
ATB_SUCCESSFUL	50	0
ATBASOC_APPC_REQUEST_OUTSTAND	68	44

Table 106. Cross Reference for ATBCSASM (continued)

Name	Offset	Hex Tag
ATBASOC_AS_ALREADY_ASSOCIATED	68	24
ATBASOC_INVALID_CURRENT_ASCBPTR	68	3C
ATBASOC_INVALID_NEW_ASCB_PTR	68	34
ATBASOC_INVALID_PARM_COMB	68	48
ATBASOC_INVALID_TPID	68	20
ATBASOC_TP_OWNED_BY_SERVER	68	4C
ATBASOC_ZERO_TPID_INVAL_FOR_TS	68	2C
ATBCMAS_ASYNC_FAILURE	68	24
ATBCMAS_INVALID_ASCB	68	20
ATBCMAS_NO_CONVERSATIONS	68	10
ATBCMAS_NORMAL_CLEANUP	50	0
ATBCMAS_NOTIFY_TYPE_ECB	50	4
ATBCMAS_NOTIFY_TYPE_NONE	50	0
ATBCMAS_SYSTEM_CLEANUP	50	4
ATBCMTP_ASYNC_FAILURE	68	24
ATBCMTP_INVALID_TPID	68	20
ATBCMTP_NO_CONVERSATIONS	68	10
ATBCMTP_NORMAL_CLEANUP	50	0
ATBCMTP_NOTIFY_TYPE_ECB	50	4
ATBCMTP_NOTIFY_TYPE_NONE	50	0
ATBCMTP_SECURITY_NOT_VALID	50	14
ATBCMTP_SYNC_LEVEL_NOT_SPT_PGM	50	18
ATBCMTP_SYSTEM_CLEANUP	50	4
ATBCMTP_TP_NOT_AVAIL_NO_RETRY	50	8
ATBCMTP_TP_NOT_AVAIL_RETRY	50	C
ATBCMTP_TPN_NOT_RECOGNIZED	50	10
ATBCMTP_USER_NOT_AUTH_FOR_TP	50	1C
ATBCNTL_HALT_ALL_INPUT	50	8
ATBCNTL_HALT_INPUT	50	0
ATBCNTL_INVALID_FUNCTION	68	2C
ATBCNTL_INVALID_LU_STATE	68	24
ATBCNTL_LU_AFFECTED_LATER	68	10
ATBCNTL_LU_NOT_ASSIGNED_TO_TS	68	20
ATBCNTL_RESUME_ALL_INPUT	50	C
ATBCNTL_RESUME_INPUT	50	4
ATBCONN_CONNECT_REJECTED	68	20
ATBCONN_INVALID_ASCB_PTR	68	10
ATBCSS_FW0	0	0
ATBCSS_FW1	4	1
ATBCSS_FW12	24	C
ATBCSS_FW14	28	E
ATBCSS_FW16	2C	10
ATBCSS_FW18	30	12
ATBCSS_FW2	8	2
ATBCSS_FW20	34	14
ATBCSS_FW22	38	16
ATBCSS_FW24	3C	18
ATBCSS_FW26	40	1A
ATBCSS_FW28	44	1C

Table 106. Cross Reference for ATBCSASM (continued)

Name	Offset	Hex Tag
ATBCSS_FW3	C	3
ATBCSS_FW30	48	1E
ATBCSS_FW38	4C	26
ATBCSS_FW4	10	4
ATBCSS_FW40	50	28
ATBCSS_FW5	14	5
ATBCSS_FW6	18	6
ATBCSS_FW7	1C	7
ATBCSS_FW8	20	8
ATBDCON_INVALID_ASCB_PTR	68	10
ATBDCON_NOT_CONNECTED	68	20
ATBDFTP_INVALID_TP_NAME	68	20
ATBDFTP_LU_NOT_ASSIGNED_TO_TS	68	10
ATBIDEN_EXIT_LOAD_FAILED	68	30
ATBIDEN_IDENTIFIED_DIFF_NAME	68	28
ATBIDEN_IDENTIFIED_FROM_SERVER	68	50
ATBIDEN_IDENTIFIED_SAME_NAME	68	24
ATBIDEN_INVALID_EXIT_NAME	68	38
ATBIDEN_INVALID_LU_INIT_STATUS	68	44
ATBIDEN_INVALID_SCHED_NAME	68	34
ATBIDEN_INVALID_TP_PROF_PROC	68	3C
ATBIDEN_LU_INIT_STAT_ACTIVE	50	0
ATBIDEN_LU_INIT_STAT_OUTBOUND	50	4
ATBIDEN_NO_BASE_LU	68	10
ATBIDEN_NO_LUS	68	20
ATBIDEN_PROFILE_OPTIONAL	50	4
ATBIDEN_PROFILE_REQUIRED	50	0
ATBIDEN_RM_NAME_NOT_VALID	68	40
ATBIDEN_SCHED_NAME_IN_USE	68	2C
ATBMIGRP_CALLER_NOT_SUP_KEY0_7	68	50
ATBMIGRP_XCF_FAILED	68	20
ATBSASA_CALLER_NOT_SUP_KEY0_7	68	50
ATBSASA_INVALID_ASCB_PTR	68	10
ATBSASA_INVALID_PROHIBIT_VALUE	68	20
ATBSASA_PROHIBIT_DEFAULT_LU_NO	50	0
ATBSASA_PROHIBIT_DEFAULT_LU_YES	50	4
ATBUNID_INVALID_UNIDENTIFY_TYPE	68	2C
ATBUNID_UNIDENT_TYPE_IMMEDIATE	50	4
ATBUNID_UNIDENT_TYPE_NORMAL	50	0

Chapter 31. ATBCTASM Information

ATBCTASM Programming Interface Information

ATBCTASM is a programming interface.

ATBCTASM Heading Information

Common Name:	Interface Declaration File for Callable Transaction Services - Assembler
Macro ID:	ATBCTASM
DSECT Name:	N/A
Owning Component:	APPC Component (SCACB)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: N/A Key: N/A Residency: N/A
Size:	N/A
Created by:	N/A
Pointed to by:	N/A
Serialization:	none
Function:	ATBCTASM contains the Assembler language declarations for parameter values for Callable Transaction Services.

ATBCTASM mapping

Table 107. Structure ATBCTS_BUF_ALLOC_QUEUE_MIN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATBCTS_BUF_ALLOC_QUEUE_MIN	
0	(0)	SIGNED	4	(0)	Align on word boundary
0	(0)	CHARACTER	8	ATBCTS_MIN_ALLOC_QUEUE_TOKEN	
8	(8)	CHARACTER	4	ATBCTS_MIN_QUEUE_SIZE	

Table 108. Structure ATBCTS_BUF_ALLOC_QUEUE_MAX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATBCTS_BUF_ALLOC_QUEUE_MAX	
0	(0)	SIGNED	4	(0)	Align on word boundary
0	(0)	CHARACTER	8	ATBCTS_MAX_ALLOC_QUEUE_TOKEN	
8	(8)	CHARACTER	4	ATBCTS_MAX_QUEUE_SIZE	
Return Code Values					
44	(2C)	SIGNED	4	ATBCTS_OK	
48	(30)	SIGNED	4	ATBCTS_WARNING	
52	(34)	SIGNED	4	ATBCTS_PARAMETER_ERROR	
56	(38)	SIGNED	4	ATBCTS_REQUEST_UNSUCCESSFUL	
60	(3C)	SIGNED	4	ATBCTS_SERVICE_FAILURE	
64	(40)	SIGNED	4	ATBCTS_APPC_NOT_AVAILABLE	
Reason Code Values					

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Table 108. Structure ATBCTS_BUF_ALLOC_QUEUE_MAX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
68	(44)	SIGNED	4	ATBCTS_ALREADY_REGISTERED	
72	(48)	SIGNED	4	ATBCTS_TP_NAME_NOT_SPECIFIED	
76	(4C)	SIGNED	4	ATBCTS_INVAL_TP_NAME	
80	(50)	SIGNED	4	ATBCTS_INVAL_TP_NAME_LENGTH	
84	(54)	SIGNED	4	ATBCTS_LOCAL_LU_NOT_SPECIFIED	
6 IS RESERVED					
88	(58)	SIGNED	4	ATBCTS_PARAMETER_INACCESSIBLE	
92	(5C)	SIGNED	4	ATBCTS_CANNOT_HOLD_LOCKS	
9 IS RESERVED					
96	(60)	SIGNED	4	ATBCTS_SCHED_CANT_REGISTER	
100	(64)	SIGNED	4	ATBCTS_SYM_DEST_NAME_UNKNOWN	
104	(68)	SIGNED	4	ATBCTS_INVAL_LOCAL_LU	
108	(6C)	SIGNED	4	ATBCTS_LU_NOT_RECEIVING	
112	(70)	SIGNED	4	ATBCTS_NOT_AUTH_TO_SERVE_TP	
116	(74)	SIGNED	4	ATBCTS_NOT_AUTH_TO_LOCAL_LU	
120	(78)	SIGNED	4	ATBCTS_APPC_SERVICE_FAILURE	
124	(7C)	SIGNED	4	ATBCTS_INVAL_ALLOC_QUEUE_TOKEN	
128	(80)	SIGNED	4	ATBCTS_INVAL_NOTIFY_TYPE	
132	(84)	SIGNED	4	ATBCTS_INVAL_TIMEOUT_VALUE	
136	(88)	SIGNED	4	ATBCTS_REQUEST_CANCELLED	
140	(8C)	SIGNED	4	ATBCTS_NO_ALLOC_TO_RECEIVE	
144	(90)	SIGNED	4	ATBCTS_INVAL_CONVERSATION_ID	
148	(94)	SIGNED	4	ATBCTS_INVAL_SENSE_CODE	
152	(98)	SIGNED	4	ATBCTS_NOT_FIRST_CONV_CALL	
156	(9C)	SIGNED	4	ATBCTS_NOT_INBOUND_CONV	
160	(A0)	SIGNED	4	ATBCTS_INVAL_EVENT_NOTIF_TYPE	
164	(A4)	SIGNED	4	ATBCTS_INVAL_EVENT_CODE	
168	(A8)	SIGNED	4	ATBCTS_NETID_DOES_NOT_MATCH	
172	(AC)	SIGNED	4	ATBCTS_INVAL_EVENT_CODE_QUAL	
176	(B0)	SIGNED	4	ATBCTS_NO_EVENT_AVAILABLE	
180	(B4)	SIGNED	4	ATBCTS_EVENT_NOTIFY_CANCELLED	
184	(B8)	SIGNED	4	ATBCTS_GET_EVENT_OUTSTANDING	
188	(BC)	SIGNED	4	ATBCTS_NOTIFY_NOT_SET	
192	(C0)	SIGNED	4	ATBCTS_INVAL_QUEUE_KEEP_TIME	
196	(C4)	SIGNED	4	ATBCTS_INVAL_ACCT_DATA_LENGTH	
200	(C8)	SIGNED	4	ATBCTS_UNREG_ALL_NO_REGISTERS	
204	(CC)	SIGNED	4	ATBCTS_INVAL_EVENT_GET_TYPE	
208	(D0)	SIGNED	4	ATBCTS_INVAL_RECEIVE_ALLC_TYPE	
212	(D4)	SIGNED	4	ATBCTS_CANNOT_DETERMINE_NETID	
216	(D8)	SIGNED	4	ATBCTS_CONV_INACCESSIBLE	
220	(DC)	SIGNED	4	ATBCTS_BUFFER_TOO_SMALL	
224	(E0)	SIGNED	4	ATBCTS_NO_ERROR_INFO	
228	(E4)	SIGNED	4	ATBCTS_INVAL_PARTNER_LU	
232	(E8)	SIGNED	4	ATBCTS_LUWID_ALREADY_ASSOCIATED	
236	(EC)	SIGNED	4	ATBCTS_SYNC_POINT_MANAGER_ERROR	

Table 109. Cross Reference for ATBCTASM

Name	Offset	Hex	Tag
ATBCTS_ALREADY_REGISTERED	44		1

Table 109. Cross Reference for ATBCTASM (continued)

Name	Offset	Hex Tag
ATBCTS_APPC_NOT_AVAILABLE	40	40
ATBCTS_APPC_SERVICE_FAILURE	78	10
ATBCTS_BUF_ALLOC_QUEUE_MAX	0	
ATBCTS_BUF_ALLOC_QUEUE_MIN	0	
ATBCTS_BUFFER_TOO_SMALL	DC	29
ATBCTS_CANNOT_DETERMINE_NETID	D4	27
ATBCTS_CANNOT_HOLD_LOCKS	5C	8
ATBCTS_CONV_INACCESSIBLE	D8	28
ATBCTS_EVENT_NOTIFY_CANCELLED	B4	1F
ATBCTS_GET_EVENT_OUTSTANDING	B8	20
ATBCTS_INVAL_ACCT_DATA_LENGTH	C4	23
ATBCTS_INVAL_ALLOC_QUEUE_TOKEN	7C	11
ATBCTS_INVAL_CONVERSATION_ID	90	16
ATBCTS_INVAL_EVENT_CODE	A4	1B
ATBCTS_INVAL_EVENT_CODE_QUAL	AC	1D
ATBCTS_INVAL_EVENT_GET_TYPE	CC	25
ATBCTS_INVAL_EVENT_NOTIF_TYPE	A0	1A
ATBCTS_INVAL_LOCAL_LU	68	C
ATBCTS_INVAL_NOTIFY_TYPE	80	12
ATBCTS_INVAL_PARTNER_LU	E4	2B
ATBCTS_INVAL_QUEUE_KEEP_TIME	C0	22
ATBCTS_INVAL_RECEIVE_ALLC_TYPE	D0	26
ATBCTS_INVAL_SENSE_CODE	94	17
ATBCTS_INVAL_TIMEOUT_VALUE	84	13
ATBCTS_INVAL_TP_NAME	4C	3
ATBCTS_INVAL_TP_NAME_LENGTH	50	4
ATBCTS_LOCAL_LU_NOT_SPECIFIED	54	5
ATBCTS_LU_NOT_RECEIVING	6C	D
ATBCTS_LUWID_ALREADY_ASSOCIATED	E8	2C
ATBCTS_MAX_ALLOC_QUEUE_TOKEN	0	
ATBCTS_MAX_QUEUE_SIZE	8	
ATBCTS_MIN_ALLOC_QUEUE_TOKEN	0	
ATBCTS_MIN_QUEUE_SIZE	8	
ATBCTS_NETID_DOES_NOT_MATCH	A8	1C
ATBCTS_NO_ALLOC_TO_RECEIVE	8C	15
ATBCTS_NO_ERROR_INFO	E0	2A
ATBCTS_NO_EVENT_AVAILABLE	B0	1E
ATBCTS_NOT_AUTH_TO_LOCAL_LU	74	F
ATBCTS_NOT_AUTH_TO_SERVE_TP	70	E
ATBCTS_NOT_FIRST_CONV_CALL	98	18
ATBCTS_NOT_INBOUND_CONV	9C	19
ATBCTS_NOTIFY_NOT_SET	BC	21
ATBCTS_OK	2C	0
ATBCTS_PARAMETER_ERROR	34	8
ATBCTS_PARAMETER_INACCESSIBLE	58	7
ATBCTS_REQUEST_CANCELLED	88	14
ATBCTS_REQUEST_UNSUCCESSFUL	38	10
ATBCTS_SCHED_CANT_REGISTER	60	A
ATBCTS_SERVICE_FAILURE	3C	20

Table 109. Cross Reference for ATBCTASM (continued)

Name	Offset	Hex Tag
ATBCTS_SYM_DEST_NAME_UNKNOWN	64	B
ATBCTS_SYNC_POINT_MANAGER_ERROR	EC	2D
ATBCTS_TP_NAME_NOT_SPECIFIED	48	2
ATBCTS_UNREG_ALL_NO_REGISTERS	C8	24
ATBCTS_WARNING	30	4

Chapter 32. ATBDFTP Information

ATBDFTP Programming Interface Information

ATBDFTP is a programming interface.

ATBDFTP Heading Information

Common Name:	APPC SDFM Transaction Profile (TP) Key Mapping Macro and TP Mapping Macro
Macro ID:	ATBDFTP
DSECT Name:	TP_PROFILE_KEY TP_PROFILE
Owning Component:	APPC Component (SCACB)
Eye-Catcher ID:	'TPKEY ' and 'TPPROF ' Offset: 0 Length: 8
Storage Attributes:	Subpool: 230 Key: 1 Residency: Above or Below the 16M Line
Size:	Refer to Listing.
Created by:	Anybody
Pointed to by:	Determined by the creator with TPKEYBASE and TPPROFBASE
Serialization:	None
Function:	Mapping macro for the System Data File Manager TP Profile Key and TP Profile Header Information

ATBDFTP mapping

Table 110. Structure TP_PROFILE_KEY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TP_PROFILE_KEY	TP Profile Key
0	(0)	DBL WORD	8	(0)	Align on double word boundary
0	(0)	CHARACTER	8	TP_PROFILE_KEY_ID	Key Identifier
8	(8)	SIGNED	4	TP_PROFILE_KEY_LENGTH	Length of Key
12	(C)	SIGNED	4	TP_PROFILE_KEY_LEVEL	Level of TP key
16	(10)	CHARACTER	8	TP_PROFILE_KEY_GROUP_ID	Group ID
24	(18)	CHARACTER	8	TP_PROFILE_KEY_USER_ID	User ID
32	(20)	CHARACTER	64	TP_PROFILE_KEY_TP_NAME	TP Name
96	(60)	CHARACTER	12		Reserved
112	(70)	DBL WORD	8	(0)	Align on double word boundary
These constants are used with the TP_PROFILE_KEY					
112	(70)	CHARACTER	8	TP_PROFILE_KEY_IDENTIFIER	
120	(78)	SIGNED	4	TP_PROFILE_KEY_SYSTEM_LEVEL	System
124	(7C)	SIGNED	4	TP_PROFILE_KEY_GROUP_LEVEL	Group
128	(80)	SIGNED	4	TP_PROFILE_KEY_USER_LEVEL	User

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ATBDFTP mapping

Table 111. Structure TP_PROFILE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TP_PROFILE	TP Profile
0	(0)	DBL WORD	8	(0)	Double word alingment
0	(0)	CHARACTER	256	TP_PROFILE_HEADER(0)	TP Profile Header
0	(0)	SIGNED	4	TP_PROFILE_COMMON_FIELDS(0)	
0	(0)	CHARACTER	8	TP_PROFILE_ID	TP Profile Identifier
8	(8)	SIGNED	4	TP_PROFILE_LENGTH	Length of TP Profile
12	(C)	BITSTRING	1	TP_PROFILE_FLAGS	TP Profile Flags
		1...		TP_PROFILE_DEACTIVATED	"X'80'" TP Profile is deactivated
		.1..		NON_ASCH_CONVERTED	"X'40'" TP Profile is converted
13	(D)	BITSTRING	3		TP Profile Flags Continued
16	(10)	CHARACTER	8	TP_PROFILE_TPSCHED_EXIT	TP Profile Identifier
24	(18)	CHARACTER	232		
256	(100)	SIGNED	4	TP_PROFILE_ASCH_PROFILE(0)	
This is the Non-ASCH unconverted TP Profile mapping. It starts at the TP_Profile_ASCH_Profile area of the TP Profile. This mapping should be used when the Non_ASCH_Converted bit is "off".					
256	(100)	SIGNED	4	NON_ASCH_HEADER(0)	
256	(100)	CHARACTER	8	NON_ASCH_COUNTER_FIELDS(0)	
256	(100)	SIGNED	4	NON_ASCH_NUM_OF_RECORDS	Number of records
260	(104)	SIGNED	4	NON_ASCH_LEN_OF_RECORDS	Length of each recordd
264	(108)	SIGNED	4	NON_ASCH_DATA(0)	Actual Data...
This is the Non-ASCH converted TP Profile mapping. It starts at the TP_Profile_ASCH_Profile area of the TP Profile. This mapping should be used when the Non_ASCH_Converted bit is "on".					
256	(100)	SIGNED	4	NON_ASCH_CONVERTED_HEADER(0)	
256	(100)	CHARACTER	20	NON_ASCH_CONVERTED_FIELDS(0)	
256	(100)	SIGNED	4	NON_ASCH_CONVERTED_LENGTH	Length of the converted profile
260	(104)	CHARACTER	16		Reserved
276	(114)	SIGNED	4	NON_ASCH_CONVERTED_DATA(0)	Actual Data...
This constant is used with the TP_PROFILE					
276	(114)	CHARACTER	8	TP_PROFILE_IDENTIFIER	

Table 112. Cross Reference for ATBDFTP

Name	Offset	Hex Tag
NON_ASCH_CONVERTED	C	40
NON_ASCH_CONVERTED_DATA	114	
NON_ASCH_CONVERTED_FIELDS	100	
NON_ASCH_CONVERTED_HEADER	100	
NON_ASCH_CONVERTED_LENGTH	100	
NON_ASCH_COUNTER_FIELDS	100	
NON_ASCH_DATA	108	
NON_ASCH_HEADER	100	
NON_ASCH_LEN_OF_RECORDS	104	
NON_ASCH_NUM_OF_RECORDS	100	

Table 112. Cross Reference for ATBDFTP (continued)

Name	Offset	Hex Tag
TP_PROFILE	0	
TP_PROFILE_ASCH_PROFILE	100	
TP_PROFILE_COMMON_FIELDS	0	
TP_PROFILE_DEACTIVATED	C	80
TP_PROFILE_FLAGS	C	
TP_PROFILE_HEADER	0	
TP_PROFILE_ID	0	
TP_PROFILE_IDENTIFIER	114	E3D7D7D9
TP_PROFILE_KEY	0	
TP_PROFILE_KEY_GROUP_ID	10	
TP_PROFILE_KEY_GROUP_LEVEL	7C	1
TP_PROFILE_KEY_ID	0	
TP_PROFILE_KEY_IDENTIFIER	70	E3D7D2C5
TP_PROFILE_KEY_LENGTH	8	
TP_PROFILE_KEY_LEVEL	C	
TP_PROFILE_KEY_SYSTEM_LEVEL	78	0
TP_PROFILE_KEY_TP_NAME	20	
TP_PROFILE_KEY_USER_ID	18	
TP_PROFILE_KEY_USER_LEVEL	80	2
TP_PROFILE_LENGTH	8	
TP_PROFILE_TPSCHED_EXIT	10	

Chapter 33. ATBDFTPE Information

ATBDFTPE Programming Interface Information

ATBDFTPE is a programming interface.

ATBDFTPE Heading Information

Common Name:	APPC SDFM TP Profile Conversion Exit
Macro ID:	ATBDFTPE
DSECT Name:	ATBDFTPE
Owning Component:	APPC Component (SCACB)
Eye-Catcher ID:	ATBDFTPE Offset: 0 Length: 8
Storage Attributes:	Subpool: 230 Key: 1 Residency: Above or Below the 16M Line
Size:	Refer to Listing of ATBSD0G module.
Created by:	ATBSD0G
Pointed to by:	Dynamically within ATBSD0G
Serialization:	None
Function:	Mapping macro for the System Data File Manager TP Profile Conversion Exit Parameters

ATBDFTPE mapping

Table 113. Structure ATBDFTPE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATBDFTPE	SDFM TP Profile Conversion Exit Parameter List
0	(0)	DBL WORD	8	(0)	Align on double word boundary
0	(0)	CHARACTER	8	DFTPE_ID	Identifier
8	(8)	CHARACTER	2	DFTPE_VERSION	Version Number
10	(A)	SIGNED	2	DFTPE_LENGTH	Length of ATBDFTPE
12	(C)	CHARACTER	8	DFTPE_PARAMETERS	Parameters from IDENTIFY verb
20	(14)	SIGNED	4	DFTPE_TP_PROFILE_KEY_POINTER	Pointer to TP Profile Key
24	(18)	SIGNED	4	DFTPE_TP_PROFILE_POINTER	Pointer to TP Profile
28	(1C)	SIGNED	4	DFTPE_CONV_DATA_POINTER	Pointer to Converted Data
32	(20)	SIGNED	4	DFTPE_CONV_DATA_LENGTH	Length of Converted Data
36	(24)	SIGNED	4	DFTPE_FUNCTION_REQUESTED	Function requested of the Conversion Exit
40	(28)	CHARACTER	16		Reserved
These constants are used with the ATBDFTPE Mapping Macro					
56	(38)	CHARACTER	8	ATBDFTPE_EYE_CATCHER	
64	(40)	CHARACTER	2	ATBDFTPE_CURRENT_VERSION	
68	(44)	SIGNED	4	DFTPE_CONVERT_TP	
72	(48)	SIGNED	4	DFTPE_OKAY	Converted and cached

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Table 113. Structure ATBDFTPE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
76	(4C)	SIGNED	4	DFTPE_SYNTAX_ERROR	Conversion failed, not cached
80	(50)	SIGNED	4	DFTPE_SEVERE_ERROR	
84	(54)	SIGNED	4	DFTPE_NOT_CONVERTED	Not converted, unconverted TP Profile is cached

Table 114. Cross Reference for ATBDFTPE

Name	Offset	Hex Tag
ATBDFTPE	0	
ATBDFTPE_CURRENT_VERSION	40	F0F1
ATBDFTPE_EYE_CATCHER	38	C1E3C2C4
DFTPE_CONV_DATA_LENGTH	20	
DFTPE_CONV_DATA_POINTER	1C	
DFTPE_CONVERT_TP	44	1
DFTPE_FUNCTION_REQUESTED	24	
DFTPE_ID	0	
DFTPE_LENGTH	A	
DFTPE_NOT_CONVERTED	54	36
DFTPE_OKAY	48	0
DFTPE_PARAMETERS	C	
DFTPE_SEVERE_ERROR	50	24
DFTPE_SYNTAX_ERROR	4C	14
DFTPE_TP_PROFILE_KEY_POINTER	14	
DFTPE_TP_PROFILE_POINTER	18	
DFTPE_VERSION	8	

Chapter 34. ATBEXCON Information

ATBEXCON Programming Interface Information

ATBEXCON is a programming interface.

ATBEXCON Heading Information

Common Name:	APPC Extract Conversation Information Control Block Mapping
Macro ID:	ATBEXCON
DSECT Name:	ATBEXCON
Owning Component:	APPC (SCACB)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: Determined by caller Key: 1 Residency: Above 16M
Size:	See assembler listing
Created by:	Any caller of ATBTSEI
Pointed to by:	Local pointer
Serialization:	N/A
Function:	The ATBEXCON is used to map the information returned in the buffer area passed by ATBEXAI when ATBEXAI is called with an Extract_Code of '0000'X. When ATBEXAI is called with Qualifier_Type of 0, information about the caller's conversations is returned. When ATBEXAI is called with a Qualifier_Type of 1, information about the conversations associated with a specified TPID is returned. Note: Caller's specifying a Qualifier_Type of 1 (in order to obtain information about conversations for some specific TPID) must be in supervisor state, or must have PSW key 0-7 when ATBEXAI is invoked.

ATBEXCON mapping

Table 115. Structure ATBEXCON

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATBEXCON	Extract Conversation Information Control Block
0	(0)	DBL WORD	8	(0)	Align on doubleword boundary
0	(0)	SIGNED	4	EXCON_TOTAL_CONV	Total number of conversations
4	(4)	SIGNED	4	EXCON_TOTAL_ALLOC_CONV	Total number of allocated conversations
8	(8)	SIGNED	4	EXCON_TOTAL_SENDS	Total number of Sends
12	(C)	CHARACTER	8	EXCON_TOTAL_SEND_AMT	Total amount of data sent, in bytes. Value is returned as a Long Floating Point Number in the form: 'eehhhhhhhhhhhhhh', where ee is the characteristic (00 <= ee <= 7F), and where hhhhhhhhhhhhhh is the 14-digit hexadicimal fraction part.

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Table 115. Structure ATBEXCON (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	SIGNED	4	EXCON_TOTAL_RECV	Total number of Receives
24	(18)	CHARACTER	8	EXCON_TOTAL_RECV_AMT	Total amount of data received, in bytes. Value is returned as a Long Floating Point Number in the form: 'eehhhhhhhhhhhhhh', where ee is the characteristic (00 <= ee <= 7F), and where hhhhhhhhhhhhhh is the 14-digit hexadicimal fraction part.
32	(20)	SIGNED	4	EXCON_TOTAL_ACTIVE_CONV	Total number of active conversations
32	(20)	X'24'	0	ATBEXCON_LEN	"*-ATBEXCON" Length of ATBEXCON control block

Table 116. Cross Reference for ATBEXCON

Name	Offset	Hex Tag
ATBEXCON	0	
ATBEXCON_LEN	20	24
EXCON_TOTAL_ACTIVE_CONV	20	
EXCON_TOTAL_ALLOC_CONV	4	
EXCON_TOTAL_CONV	0	
EXCON_TOTAL_RECV	14	
EXCON_TOTAL_RECV_AMT	18	
EXCON_TOTAL_SEND_AMT	C	
EXCON_TOTAL_SENDS	8	

Chapter 35. ATBEXCOS Information

ATBEXCOS Programming Interface Information

ATBEXCOS is a programming interface.

ATBEXCOS Heading Information

Common Name:	APPC Extract Specific Conversation Information Control Block Mapping
Macro ID:	ATBEXCOS
DSECT Name:	ATBEXCOS
Owning Component:	APPC Component (SCACB)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: Determined by caller Key: Determined by caller Residency: Determined by caller
Size:	See Assembler listing
Created by:	Any caller of ATBEXAI
Pointed to by:	Local pointer
Serialization:	None
Function:	ATBEXCOS is used to map the information returned in the buffer area passed by ATBEXAI when ATBEXAI is called with an Extract_Code of '0001'X.

ATBEXCOS mapping

Table 117. Structure ATBEXCOS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATBEXCOS	Extract Specific Conversation Information Control Block
0	(0)	DBL WORD	8	(0)	Align on doubleword boundary
0	(0)	CHARACTER	8	EXCOS_CONV_ID	Conversation ID
8	(8)	SIGNED	4	EXCOS_INOUT	Inbound/Outbound indicator: 0 -> outbound, 1 -> inbound
12	(C)	SIGNED	4	EXCOS_PLU_LOCATION	Partner LU location 1 -> remote, 2 -> local
16	(10)	SIGNED	4	EXCOS_CONV_KIND	How the conversation was processed 0 -> others, 1 -> served TP
20	(14)	CHARACTER	26	EXCOS_LUWID	Logical unit of work ID
46	(2E)	CHARACTER	8	EXCOS_CONV_CORRELATOR	Conversation Correlator
54	(36)	CHARACTER	10	EXCOS_CONV_USERID	Conversation userid: sent or received in the attach request (FMH-5) which created this conversation
64	(40)	CHARACTER	8	EXCOS_SCHED_NAME	Scheduler Name
72	(48)	SIGNED	4	EXCOS_TP_NAME_LENGTH	Length of TP Name sent or received in the attach request (FMH-5) which created this conversation

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Table 117. Structure ATBEXCOS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
76	(4C)	CHARACTER	64	EXCOS_TP_NAME	Transaction Program Name sent or received in the attach request (FMH-5) which created this conversation
140	(8C)	SIGNED	4	EXCOS_LOCAL_TP_NAME_LENGTH	Local TP Name Length
144	(90)	CHARACTER	64	EXCOS_LOCAL_TP_NAME	Local TP Name
208	(D0)	CHARACTER	8	EXCOS_LU_NAME	Logical Unit Name
216	(D8)	CHARACTER	17	EXCOS_PLU_NAME	Fully qualified Partner LU name
233	(E9)	CHARACTER	3		Reserved
236	(EC)	CHARACTER	8	EXCOS_ARRIVAL_TIME	Date and time this ALLOCATE request was obtained from VTAM or from a local LU by APPC/MVS. This field contains the date and time in the format provided by the STORE CLOCK (STCK) assembler instruction. This field is set to zero for outbound requests.
244	(F4)	CHARACTER	8	EXCOS_CONV_AVAILABLE_TIME	Date and time this conversation was placed on the allocate queue. The content of this field has meaning only when Excos_Conv_Kind indicates that this is a served TP.
252	(FC)	CHARACTER	8	EXCOS_CONV_START_TIME	For outbound conversations this is the date and time the allocate was issued. For inbound conversations, if the TP is not served, this is the time the first verb was issued. For inbound, served TPs, this is the time RECEIVE_ALLOCATE was issued.
260	(104)	CHARACTER	8	EXCOS_END_TIME	Date and time this conversation was deallocated. This field contains the date and time in the format provided by the STORE CLOCK (STCK) assembler instruction.
268	(10C)	CHARACTER	8	EXCOS_MODE_NAME	Conversation mode name
276	(114)	SIGNED	4	EXCOS_SYNC_LEVEL	Conversation synchronization level
280	(118)	SIGNED	4	EXCOS_TOTAL_SENDS	Total number of Sends issued by the local transaction program on this conversation
284	(11C)	CHARACTER	8	EXCOS_TOTAL_SEND_AMT	Total amount of data sent, in bytes. Value is returned as a Long Floating Point Number in the form: 'eehhhhhhhhhhhhhh', where ee is the characteristic (00 <= ee <= 7F), and where hhhhhhhhhhhhhh is the 14-digit hexadicimal fraction part.
292	(124)	SIGNED	4	EXCOS_TOTAL_RECEIVES	Total number of Receives

Table 117. Structure ATBEXCOS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
296	(128)	CHARACTER	8	EXCOS_TOTAL_RECEIVE_AMT	Total amount of data received, in bytes. Value is returned as a Long Floating Point Number in the form: 'eehhhhhhhhhhhhhh', where ee is the characteristic (00 <= ee <= 7F), and where hhhhhhhhhhhhhh is the 14-digit hexadicimal fraction part.
304	(130)	SIGNED	4	EXCOS_TOTAL_CALLABLE_SERVICE	Total number of callable service requests issued by the local transaction program for this conversation
308	(134)	SIGNED	4	EXCOS_LAST_SERVICE_RETURN_CODE	Return code from last requested callable service
312	(138)	SIGNED	4	EXCOS_LAST_SERVICE_REASON_CODE	Reason code from last callable service requested on this conversation which returned product_specific_error
316	(13C)	SIGNED	4	EXCOS_CONVERSATION_STATE	Current State of Conversation
320	(140)	CHARACTER	8	EXCOS_LAST_SERVICE_START_TIME	Date and time of start of last requested service in STCK format
328	(148)	CHARACTER	8	EXCOS_LAST_SERVICE_END_TIME	Date and time of end of last requested service in STCK format
336	(150)	SIGNED	4	EXCOS_LENGTH_OF_USER_DATA	Length of Excos_User_Data field
340	(154)	CHARACTER	255	EXCOS_USER_DATA	User field - This field is set from user input provided via SET_CONVERSATION_ACCOUNTING_INFORMATION
595	(253)	CHARACTER	16	EXCOS_URID	Unit of Recovery Identifier for protected conversations
595	(253)	X'263'	0	ATBEXCOS_LEN	"*-ATBEXCOS" Length of ATBEXCOS control block

Table 118. Cross Reference for ATBEXCOS

Name	Offset	Hex Tag
ATBEXCOS	0	
ATBEXCOS_LEN	253	263
EXCOS_ARRIVAL_TIME	EC	
EXCOS_CONV_AVAILABLE_TIME	F4	
EXCOS_CONV_CORRELATOR	2E	
EXCOS_CONV_ID	0	
EXCOS_CONV_KIND	10	
EXCOS_CONV_START_TIME	FC	
EXCOS_CONV_USERID	36	
EXCOS_CONVERSATION_STATE	13C	
EXCOS_END_TIME	104	
EXCOS_INOUT	8	
EXCOS_LAST_SERVICE_END_TIME	148	

Table 118. Cross Reference for ATBEXCOS (continued)

Name	Offset	Hex Tag
EXCOS_LAST_SERVICE_REASON_CODE	138	
EXCOS_LAST_SERVICE_RETURN_CODE	134	
EXCOS_LAST_SERVICE_START_TIME	140	
EXCOS_LENGTH_OF_USER_DATA	150	
EXCOS_LOCAL_TP_NAME	90	
EXCOS_LOCAL_TP_NAME_LENGTH	8C	
EXCOS_LU_NAME	D0	
EXCOS_LUWID	14	
EXCOS_MODE_NAME	10C	
EXCOS_PLU_LOCATION	C	
EXCOS_PLU_NAME	D8	
EXCOS_SCHED_NAME	40	
EXCOS_SYNC_LEVEL	114	
EXCOS_TOTAL_CALLABLE_SERVICE	130	
EXCOS_TOTAL_RECEIVE_AMT	128	
EXCOS_TOTAL_RECEIVES	124	
EXCOS_TOTAL_SEND_AMT	11C	
EXCOS_TOTAL_SENDS	118	
EXCOS_TP_NAME	4C	
EXCOS_TP_NAME_LENGTH	48	
EXCOS_URID	253	
EXCOS_USER_DATA	154	

Chapter 36. ATBSECB Information

ATBSECB Programming Interface Information

ATBSECB is a programming interface.

ATBSECB Heading Information

Common Name:	APPC Scheduler Extract Control Block
Macro ID:	ATBSECB
DSECT Name:	ATBSECB
Owning Component:	APPC (SCACB)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: Determined by caller Key: 1 Residency: Above 16M
Size:	See Assembler listing
Created by:	Any caller of ATBTSEI
Pointed to by:	Local pointer
Serialization:	None
Function:	The ATBSECB is used to map the information passed to the Scheduler Extract Exit. The first part of the ATBSECB is identical, regardless of the type of service extract request. The second part, beginning with the field 'Secb_var_data' contains variable types of information, the format of which is indicated by the 'Secb_service_indicator' field. Currently, 2 types of information may be passed in 'Secb_var_data', either information for a 'Get_Info' type request (which is mapped by the 'Atbsecb_var_data_getinfo' structure), or information for a 'Get_TPID' request (which is mapped by the 'Atbsecb_var_data_gettpid' structure).

ATBSECB mapping

Table 119. Structure ATBSECB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATBSECB	Scheduler Extract Control Block
0	(0)	DBL WORD	8	(0)	Align on doubleword boundary
0	(0)	CHARACTER	16	SECB_HDR(0)	Fixed length header portion of the Secb

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Table 119. Structure ATBSECB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	SIGNED	4	SECB_SERVICE_INDICATOR	Type of Scheduler Extract Service requested: 0 - Get_Info request indicates that the Transaction Scheduler Extract Exit is invoked to extract Scheduler information. This code is always used when the information has been requested through the ATBEXAI exit. 1 - Get_TPID request indicates that the Transaction Scheduler Extract Exit is invoked to determine the TPID. This code is used when certain internal APPC routines invoke the APPC Scheduler Extract Exit directly.
4	(4)	SIGNED	4	SECB_RETURN_CODE	Return code from the Transaction Scheduler Extract Exit.
8	(8)	CHARACTER	8	SECB_USER_SUPPLIED_TOKEN	User token from the Scheduler_Extract_User_field on the "IDENTIFY".
8	(8)	X'10'	0	ATBSECB_HDRLEN	"*-SECB_HDR" Length of ATBSECB non-variable part of control block
16	(10)	CHARACTER	1	SECB_VAR_DATA(0)	Variable data dependent on the type of call
The 'Atbsecb_var_data_getinfo' mapping is used to map the 'Secb_var_data' area when the Scheduler Extract Exit is being called for a Get_Info request. All calls to ATBEXAI for scheduler information result in the Scheduler Extract Exit being called for a Get_Info request, so this form of the ATBSECB is the only form used to invoke the extract exit from ATBEXAI. This area contains a copy of the parameters passed on the call to ATBEXAI.					
16	(10)	SIGNED	4	ATBSECB_VAR_DATA_GETINFO(0)	Align on a fullword boundary
16	(10)	SIGNED	4	SECB_EXTRACT_INFOTYPE	Value of Extract_Code passed to Extract Service
20	(14)	SIGNED	4	SECB_EXTRACT_QUALTYPE	Value of Qualifier_type passed to Extract Service
24	(18)	CHARACTER	8	SECB_EXTRACT_QUALIFIER	Value of Qualifier_Value passed to Extract Service
32	(20)	SIGNED	4	SECB_BUFFER_LENGTH	Length of buffer passed to Extract Service. This field returns the length of the buffer area actually used to return the extracted information.
36	(24)	SIGNED	4	SECB_ACCESS_TOKEN	ALET of buffer pointed to by 'Secb_buffer_address'
40	(28)	ADDRESS	4	SECB_BUFFER_ADDRESS	Address of buffer passed to Extract Service. The extracted information is returned in this buffer.

Table 119. Structure ATBSECB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	X'1C'	0	ATBSECB_GETINFO_LEN	"*-ATBSECB_VAR_DATA_GETINFO" Length of the variable part of the SECB for a GETINFO request
The 'Atbsecb_var_data_getinfo' mapping is used to map the 'Secb_var_data' area when the Scheduler Extract Exit is being called for a Get_Info request. All calls to ATBEXAI for scheduler information result in the Scheduler Extract Exit being called for a Get_Info request, so this form of the ATBSECB is the only form used to invoke the extract exit from ATBEXAI. This area contains a copy of the parameters passed on the call to ATBEXAI.					
16	(10)	SIGNED	4	ATBSECB_VAR_DATA_GETTPID(0)	Align on a fullword boundary
16	(10)	CHARACTER	8	SECB_EXTRACT_TPID	Area used to return TPID value
24	(18)	ADDRESS	4	SECB_ASCB_PTR	Specifies ASCB address of the address space in control at the time the service is requested (i.e. home address space of caller).
28	(1C)	ADDRESS	4	SECB_TCB_ADDRESS	Specifies address of TCB in control at the time of the service request. This value is 0 if the Extract Service was called in SRB mode.
28	(1C)	X'10'	0	ATBSECB_GETTPID_LEN	"*-ATBSECB_VAR_DATA_GETTPID" Length of the variable part of the SECB for a GETTPID request
Constants which define the valid Secb_service_indicator request types.					
28	(1C)	X'0'	0	ATBSECB_GET_INFO	"0" Constant used to define a Get_Info request to the TP Scheduler Extract Exit
28	(1C)	X'1'	0	ATBSECB_GET_TPID	"1" Constant used to define a Get_TPID request to the TP Scheduler Extract Exit

Table 120. Cross Reference for ATBSECB

Name	Offset	Hex Tag
ATBSECB	0	
ATBSECB_GET_INFO	1C	0
ATBSECB_GET_TPID	1C	1
ATBSECB_GETINFO_LEN	28	1C
ATBSECB_GETTPID_LEN	1C	10
ATBSECB_HDRLEN	8	10
ATBSECB_VAR_DATA_GETINFO	10	
ATBSECB_VAR_DATA_GETTPID	10	
SECB_ACCESS_TOKEN	24	
SECB_ASCB_PTR	18	
SECB_BUFFER_ADDRESS	28	
SECB_BUFFER_LENGTH	20	
SECB_EXTRACT_INFOTYPE	10	

Table 120. Cross Reference for ATBSECB (continued)

Name	Offset	Hex Tag
SECB_EXTRACT_QUALIFIER	18	
SECB_EXTRACT_QUALTYPE	14	
SECB_EXTRACT_TPID	10	
SECB_HDR	0	
SECB_RETURN_CODE	4	
SECB_SERVICE_INDICATOR	0	
SECB_TCB_ADDRESS	1C	
SECB_USER_SUPPLIED_TOKEN	8	
SECB_VAR_DATA	10	

Chapter 37. ATBSERV Information

ATBSERV Programming Interface Information

ATBSERV is a programming interface.

ATBSERV Heading Information

Common Name:	Interface Declaration File for LU 6.2 Protocol Boundary Interfaces - Assembler
Macro ID:	ATBSERV
DSECT Name:	None
Owning Component:	APPC (SCACB)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: N/A
Size:	N/A
Created by:	N/A
Pointed to by:	N/A
Serialization:	N/A
Function:	ATBSERV contains the Assembler language declarations for parameter values for the LU 6.2 Protocol Boundary Interface services

ATBSERV mapping

Table 121. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

```
   START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: Interface Declaration File for LU 6.2 Protocol
                     Boundary Interfaces - Assembler
01 MACRO NAME: ATBSERV
01 EXTERNAL CLASSIFICATION: PI
01 END OF EXTERNAL CLASSIFICATION:
01 DSECT NAME:
     None
01 PROPRIETARY STATEMENT:
01 METHOD OF ACCESS:
01 COMPONENT: APPC (SCACB)
01 EYE-CATCHER: None
01 STORAGE ATTRIBUTES:
02 SUBPOOL: N/A
01 SIZE:
      N/A
01 CREATED BY:
     N/A
01 POINTED TO BY:
     N/A
01 SERIALIZATION:
     N/A
01 FUNCTION:
02 ATBSERV contains the Assembler language declarations for
      parameter values for the LU 6.2 Protocol Boundary Interface
      services
  END OF SPECIFICATIONS
```

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Table 121. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	SIGNED	4	ATB_FW0	
4	(4)	SIGNED	4	ATB_FW1	
8	(8)	SIGNED	4	ATB_FW2	
12	(C)	SIGNED	4	ATB_FW3	
16	(10)	SIGNED	4	ATB_FW4	
20	(14)	SIGNED	4	ATB_FW5	
24	(18)	SIGNED	4	ATB_FW6	
28	(1C)	SIGNED	4	ATB_FW7	
32	(20)	SIGNED	4	ATB_FW8	
36	(24)	SIGNED	4	ATB_FW100	
40	(28)	SIGNED	4	ATB_FW101	
44	(2C)	SIGNED	4	ATB_FW102	
Conversation State Values					
44	(2C)	X'8'	0	ATB_INITIALIZE_STATE	"ATB_FW2"
44	(2C)	X'C'	0	ATB_SEND_STATE	"ATB_FW3"
44	(2C)	X'10'	0	ATB_RECEIVE_STATE	"ATB_FW4"
44	(2C)	X'14'	0	ATB_SEND_PENDING_STATE	"ATB_FW5"
44	(2C)	X'18'	0	ATB_CONFIRM_STATE	"ATB_FW6"
44	(2C)	X'1C'	0	ATB_CONFIRM_SEND_STATE	"ATB_FW7"
44	(2C)	X'20'	0	ATB_CONFIRM_DEALLOCATE_STATE	"ATB_FW8"
Conversation Type values					
44	(2C)	X'0'	0	ATB_BASIC_CONVERSATION	"ATB_FW0"
44	(2C)	X'4'	0	ATB_MAPPED_CONVERSATION	"ATB_FW1"
Data Received values					
44	(2C)	X'0'	0	ATB_NO_DATA_RECEIVED	"ATB_FW0"
44	(2C)	X'4'	0	ATB_DATA_RECEIVED	"ATB_FW1"
44	(2C)	X'8'	0	ATB_COMPLETE_DATA_RECEIVED	"ATB_FW2"
44	(2C)	X'C'	0	ATB_INCOMPLETE_DATA_RECEIVED	"ATB_FW3"
Deallocate Type values					
44	(2C)	X'0'	0	ATB_DEALLOCATE_SYNC_LEVEL	"ATB_FW0"
44	(2C)	X'4'	0	ATB_DEALLOCATE_FLUSH	"ATB_FW1"
44	(2C)	X'8'	0	ATB_DEALLOCATE_CONFIRM	"ATB_FW2"
44	(2C)	X'C'	0	ATB_DEALLOCATE_ABEND	"ATB_FW3"
Error Direction values					
44	(2C)	X'0'	0	ATB_RECEIVE_ERROR	"ATB_FW0"
44	(2C)	X'4'	0	ATB_SEND_ERROR	"ATB_FW1"
Fill values					
44	(2C)	X'0'	0	ATB_FILL_LL	"ATB_FW0"
44	(2C)	X'4'	0	ATB_FILL_BUFFER	"ATB_FW1"
Locks values					
44	(2C)	X'24'	0	ATB_LOCKS_SHORT	"ATB_FW100"
44	(2C)	X'28'	0	ATB_LOCKS_LONG	"ATB_FW101"
Notify Type Values					
44	(2C)	X'0'	0	ATB_NOTIFY_TYPE_NONE	"ATB_FW0"

Table 121. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
44	(2C)	X'4'	0	ATB_NOTIFY_TYPE_ECB	"ATB_FW1"
Prepare to Receive Type values					
44	(2C)	X'0'	0	ATB_PREP_TO_RECEIVE_SYNC_LEVEL	"ATB_FW0"
44	(2C)	X'4'	0	ATB_PREP_TO_RECEIVE_FLUSH	"ATB_FW1"
44	(2C)	X'8'	0	ATB_PREP_TO_RECEIVE_CONFIRM	"ATB_FW2"
Request to Send Received values					
44	(2C)	X'0'	0	ATB_REQ_TO_SEND_NOT_RECEIVED	"ATB_FW0"
44	(2C)	X'4'	0	ATB_REQ_TO_SEND_RECEIVED	"ATB_FW1"
Return Control values					
44	(2C)	X'0'	0	ATB_WHEN_SESSION_ALLOCATED	"ATB_FW0"
44	(2C)	X'4'	0	ATB_IMMEDIATE	"ATB_FW1"
44	(2C)	X'24'	0	ATB_WHEN_CONWINNER_ALLOCATED	"ATB_FW100"
Security Type values					
44	(2C)	X'24'	0	ATB_SECURITY_NONE	"ATB_FW100"
44	(2C)	X'28'	0	ATB_SECURITY_SAME	"ATB_FW101"
44	(2C)	X'2C'	0	ATB_SECURITY_PROGRAM	"ATB_FW102"
Send Type values					
44	(2C)	X'0'	0	ATB_BUFFER_DATA	"ATB_FW0"
44	(2C)	X'4'	0	ATB_SEND_AND_FLUSH	"ATB_FW1"
44	(2C)	X'8'	0	ATB_SEND_AND_CONFIRM	"ATB_FW2"
44	(2C)	X'C'	0	ATB_SEND_AND_PREP_TO_RECEIVE	"ATB_FW3"
44	(2C)	X'10'	0	ATB_SEND_AND_DEALLOCATE	"ATB_FW4"
Status Received values					
44	(2C)	X'0'	0	ATB_NO_STATUS_RECEIVED	"ATB_FW0"
44	(2C)	X'4'	0	ATB_SEND_RECEIVED	"ATB_FW1"
44	(2C)	X'8'	0	ATB_CONFIRM_RECEIVED	"ATB_FW2"
44	(2C)	X'C'	0	ATB_CONFIRM_SEND_RECEIVED	"ATB_FW3"
44	(2C)	X'10'	0	ATB_CONFIRM_DEALLOC_RECEIVED	"ATB_FW4"
Sync Level values					
44	(2C)	X'0'	0	ATB_NONE	"ATB_FW0"
44	(2C)	X'4'	0	ATB_CONFIRM	"ATB_FW1"
Return code values					
48	(30)	SIGNED	4	ATB_OK	
52	(34)	SIGNED	4	ATB_ALLOCATE_FAILURE_NO_RETRY	
56	(38)	SIGNED	4	ATB_ALLOCATE_FAILURE_RETRY	
60	(3C)	SIGNED	4	ATB_CONVERSATION_TYPE_MISMATCH	
64	(40)	SIGNED	4	ATB_PIP_NOT_SPECIFIED_CORRECTLY	
68	(44)	SIGNED	4	ATB_SECURITY_NOT_VALID	
72	(48)	SIGNED	4	ATB_SYNC_LVL_NOT_SUPPORTED_PGM	
76	(4C)	SIGNED	4	ATB_TPN_NOT_RECOGNIZED	

Table 121. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
80	(50)	SIGNED	4	ATB_TP_NOT_AVAILABLE_NO_RETRY	
84	(54)	SIGNED	4	ATB_TP_NOT_AVAILABLE_RETRY	
88	(58)	SIGNED	4	ATB_DEALLOCATED_ABEND	
92	(5C)	SIGNED	4	ATB_DEALLOCATED_NORMAL	
96	(60)	SIGNED	4	ATB_PARAMETER_ERROR	
100	(64)	SIGNED	4	ATB_PRODUCT_SPECIFIC_ERROR	
104	(68)	SIGNED	4	ATB_PROGRAM_ERROR_NO_TRUNC	
108	(6C)	SIGNED	4	ATB_PROGRAM_ERROR_PURGING	
112	(70)	SIGNED	4	ATB_PROGRAM_ERROR_TRUNC	
116	(74)	SIGNED	4	ATB_PROGRAM_PARAMETER_CHECK	
120	(78)	SIGNED	4	ATB_PROGRAM_STATE_CHECK	
124	(7C)	SIGNED	4	ATB_RESOURCE_FAILURE_NO_RETRY	
128	(80)	SIGNED	4	ATB_RESOURCE_FAILURE_RETRY	
132	(84)	SIGNED	4	ATB_UNSUCCESSFUL	
136	(88)	SIGNED	4	ATB_DEALLOCATED_ABEND_SVC	
140	(8C)	SIGNED	4	ATB_DEALLOCATED_ABEND_TIMER	
144	(90)	SIGNED	4	ATB_SVC_ERROR_NO_TRUNC	
148	(94)	SIGNED	4	ATB_SVC_ERROR_PURGING	
152	(98)	SIGNED	4	ATB_SVC_ERROR_TRUNC	

Table 122. Cross Reference for ATBSERV

Name	Offset	Hex Tag
ATB_ALLOCATE_FAILURE_NO_RETRY	34	1
ATB_ALLOCATE_FAILURE_RETRY	38	2
ATB_BASIC_CONVERSATION	2C	0
ATB_BUFFER_DATA	2C	0
ATB_COMPLETE_DATA_RECEIVED	2C	8
ATB_CONFIRM	2C	4
ATB_CONFIRM_DEALLOC_RECEIVED	2C	10
ATB_CONFIRM_DEALLOCATE_STATE	2C	20
ATB_CONFIRM_RECEIVED	2C	8
ATB_CONFIRM_SEND_RECEIVED	2C	C
ATB_CONFIRM_SEND_STATE	2C	1C
ATB_CONFIRM_STATE	2C	18
ATB_CONVERSATION_TYPE_MISMATCH	3C	3
ATB_DATA_RECEIVED	2C	4
ATB_DEALLOCATE_ABEND	2C	C
ATB_DEALLOCATE_CONFIRM	2C	8
ATB_DEALLOCATE_FLUSH	2C	4
ATB_DEALLOCATE_SYNC_LEVEL	2C	0
ATB_DEALLOCATED_ABEND	58	11
ATB_DEALLOCATED_ABEND_SVC	88	1E
ATB_DEALLOCATED_ABEND_TIMER	8C	1F
ATB_DEALLOCATED_NORMAL	5C	12
ATB_FILL_BUFFER	2C	4
ATB_FILL_LL	2C	0
ATB_FW0	0	0
ATB_FW1	4	1
ATB_FW100	24	64

Table 122. Cross Reference for ATBSERV (continued)

Name	Offset	Hex Tag
ATB_FW101	28	65
ATB_FW102	2C	66
ATB_FW2	8	2
ATB_FW3	C	3
ATB_FW4	10	4
ATB_FW5	14	5
ATB_FW6	18	6
ATB_FW7	1C	7
ATB_FW8	20	8
ATB_IMMEDIATE	2C	4
ATB_INCOMPLETE_DATA_RECEIVED	2C	C
ATB_INITIALIZE_STATE	2C	8
ATB_LOCKS_LONG	2C	28
ATB_LOCKS_SHORT	2C	24
ATB_MAPPED_CONVERSATION	2C	4
ATB_NO_DATA_RECEIVED	2C	0
ATB_NO_STATUS_RECEIVED	2C	0
ATB_NONE	2C	0
ATB_NOTIFY_TYPE_ECB	2C	4
ATB_NOTIFY_TYPE_NONE	2C	0
ATB_OK	30	0
ATB_PARAMETER_ERROR	60	13
ATB_PIP_NOT_SPECIFIED_CORRECTLY	40	5
ATB_PREP_TO_RECEIVE_CONFIRM	2C	8
ATB_PREP_TO_RECEIVE_FLUSH	2C	4
ATB_PREP_TO_RECEIVE_SYNC_LEVEL	2C	0
ATB_PRODUCT_SPECIFIC_ERROR	64	14
ATB_PROGRAM_ERROR_NO_TRUNC	68	15
ATB_PROGRAM_ERROR_PURGING	6C	16
ATB_PROGRAM_ERROR_TRUNC	70	17
ATB_PROGRAM_PARAMETER_CHECK	74	18
ATB_PROGRAM_STATE_CHECK	78	19
ATB_RECEIVE_ERROR	2C	0
ATB_RECEIVE_STATE	2C	10
ATB_REQ_TO_SEND_NOT_RECEIVED	2C	0
ATB_REQ_TO_SEND_RECEIVED	2C	4
ATB_RESOURCE_FAILURE_NO_RETRY	7C	1A
ATB_RESOURCE_FAILURE_RETRY	80	1B
ATB_SECURITY_NONE	2C	24
ATB_SECURITY_NOT_VALID	44	6
ATB_SECURITY_PROGRAM	2C	2C
ATB_SECURITY_SAME	2C	28
ATB_SEND_AND_CONFIRM	2C	8
ATB_SEND_AND_DEALLOCATE	2C	10
ATB_SEND_AND_FLUSH	2C	4
ATB_SEND_AND_PREP_TO_RECEIVE	2C	C
ATB_SEND_ERROR	2C	4
ATB_SEND_PENDING_STATE	2C	14
ATB_SEND_RECEIVED	2C	4

Table 122. Cross Reference for ATBSERV (continued)

Name	Offset	Hex Tag
ATB_SEND_STATE	2C	C
ATB_SVC_ERROR_NO_TRUNC	90	20
ATB_SVC_ERROR_PURGING	94	21
ATB_SVC_ERROR_TRUNC	98	22
ATB_SYNC_LVL_NOT_SUPPORTED_PGM	48	8
ATB_TP_NOT_AVAILABLE_NO_RETRY	50	A
ATB_TP_NOT_AVAILABLE_RETRY	54	B
ATB_TPN_NOT_RECOGNIZED	4C	9
ATB_UNSUCCESSFUL	84	1C
ATB_WHEN_CONWINNER_ALLOCATED	2C	24
ATB_WHEN_SESSION_ALLOCATED	2C	0

Chapter 38. ATBXCFMS Information

ATBXCFMS Programming Interface Information

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

- XCFMS_ATTACH_EXIT_DATA

ATBXCFMS Heading Information

Common Name:	APPC/XCF Message mappings
Macro ID:	ATBXCFMS
DSECT Name:	XCFMS_SHORT_MESSAGE_HEADER XCFMS_INBOUND_FMH5 XCFMS_LUM_STATUS_MESSAGE
Owning Component:	APPC Component (SCACB)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: User Defined Key: Any Residency: Any
Size:	See Assembler listing
Created by:	N/A
Pointed to by:	User Defined
Serialization:	None
Function:	This mapping macro contains a mapping of each APPC/XCF message in APPC. It also contains the constants for the message types for the APPC/XCF messages. When a transaction scheduler accepts a message longer than the 32 byte initial message, the buffer that is used to receive the message must be obtained in the PSW key in which the transaction scheduler joined the APPC Group in.

ATBXCFMS mapping

Table 123. Structure XCFMS_SHORT_MESSAGE_HEADER

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XCFMS_SHORT_MESSAGE_HEADER	
0	(0)	SIGNED	4	(0)	
0	(0)	SIGNED	4	XCFMS_MESSAGE_TYPE	
4	(4)	CHARACTER	28	XCFMS_INFORMATION	another mapping will be mapped over this field. it will be specific to the type of message
4	(4)	X'20'	0	XCFMS_HEADER_LENGTH	"*-XCFMS_SHORT_MESSAGE_HEADER" Length of short message

```
              APPC STATUS MESSAGE
This mapping will be for the APPC status message. This mapping
will be defined right on top of the XCFMS_INFORMATION field.
Those using this message need only to refer to the fields
directly.
The message types are also defined here. They are:
    APPC initialization message -> '00001000'X
    APPC termination/norestart -> '00001001'X
    APPC termination/restart -> '00001002'X
```

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Table 123. Structure XCFMS_SHORT_MESSAGE_HEADER (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	SIGNED	4	XCFMS_APPC_STATUS(0)	
4	(4)	CHARACTER	4	XCFMS_APPC_VERSION	The level of the APPC component active on the system
8	(8)	CHARACTER	8	XCFMS_APPC_TIME_STAMP	The time stamp, in TOD format, of the time APPC completed initialization or completed termination
16	(10)	CHARACTER	16	XCFMS_APPC_RESERVE	Reserved
32	(20)	CHARACTER	4	XCFMS_CURRENT_APPC_VERSION	
32	(20)	X'1000'	0	XCFMS_APPC_INIT	"4096"
32	(20)	X'1001'	0	XCFMS_APPC_NORESTART	"4097"
32	(20)	X'1002'	0	XCFMS_APPC_RESTART	"4098"
		LU ACTIVATION/DEACTIVATION MESSAGE This mapping will be for the LU status message. This mapping will be defined right on top of the XCFMS_INFORMATION field. Those using this message need only to refer to these fields directly. The message types are also defined here. They are: LU activation -> '00002000'X LU deactivation -> '00002001'X			
4	(4)	SIGNED	4	XCFMS_LUM_STATUS(0)	
4	(4)	BITSTRING	4	XCFMS_LU_FLAGS(0)	Flags indicating special features of the LU.
4	(4)	BITSTRING	1		
		1...		XCFMS_BASE_LU	"X'80'" BIT MEANING 0 The LU was specified as the BASE LU for the scheduler
		..1.		XCFMS_NQN_CAPABLE	"X'20'" BIT MEANING 2 The LU is capable of supporting network-qualified function.
5	(5)	BITSTRING	3		Reserved
8	(8)	CHARACTER	8	XCFMS_LU_TIME_STAMP	The time stamp, in TOD format, of the time the LU was activated or deactivated
16	(10)	CHARACTER	8	XCFMS_LU_NAME	The local LU name described by the message (it is not fully qualified)
24	(18)	CHARACTER	8	XCFMS_TRANS_SCHED_NAME	The name of the Transaction Scheduler assigned to the LU name in the APPCPMxx parmlib member
		Message type constants			
24	(18)	X'2000'	0	XCFMS_LU_ACTIVE	"8192"
24	(18)	X'2001'	0	XCFMS_LU_NOACTIVE	"8193"
		ALLOCATE TP REQUEST MESSAGE HEADER This mapping will be for the Allocate TP Request Message header. This message will be accompanied by a longer message representing an Allocate TP request. The TPID in this header will represent the Transaction Program that this allocate request represents. This mapping will be defined right on top of the XCFMS_INFORMATION field. Those using this message need only to refer to these fields directly. The message types are also defined here. They are: ATTACH TP request -> '00000001'X			

Table 123. Structure XCFMS_SHORT_MESSAGE_HEADER (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	SIGNED	4	XCFMS_ATTACH_HEADER(0)	
4	(4)	CHARACTER	8	XCFMS_ATTACH_TPID	The Transaction Program ID which uniquely identifies the TP created allocate TP request
12	(C)	ADDRESS	4	XCFMS_ATTACH_EXIT_DATA	Exit Data For this Attach Request, used for OpenEdition MVS Allocate_Conversation Exit
16	(10)	CHARACTER	8	XCFMS_APPC_NOTIFYEXIT_DATA	Control information used by APPC to communicate with its XCF Notification exit
24	(18)	CHARACTER	8	XCFMS_ATTACH_RESERVED	RESERVED space
Message type constants					
24	(18)	X'1'	0	XCFMS_INBOUND_ATTACH	"1"

Table 124. Structure XCFMS_LUM_STATUS_MESSAGE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XCFMS_LUM_STATUS_MESSAGE	
		DS 0F			
0	(0)	SIGNED	4	XCFMS_LU_MSG_TYPE	LU message type (same as the XCFMS_MESSAGE_TYPE) '00002000'X -> LU activate '00002001'X -> LU deactivate
4	(4)	CHARACTER	8	XCFMS_LU_USERVAR	The user variable supplied in the APPCPMxx parmlib member
12	(C)	CHARACTER	8	XCFMS_ALT_LU	The ALT_LU value supplied in the APPCPMxx parmlib member
20	(14)	CHARACTER	8	XCFMS_GENERIC_RESOURCE	The generic resource name used for the LU. This value is supplied using the GRNAME keyword on the LUADD statement. (will be zeroes if GRNAME not used)
28	(1C)	CHARACTER	16	XCFMS_XRF_MSG_RESERVED	Reserved space

Table 125. Structure XCFMS_INBOUND_FMH5

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XCFMS_INBOUND_FMH5	
0	(0)	SIGNED	4	(0)	Align on a word boundary
0	(0)	SIGNED	4	XCFMS_ATTACH_MSG	Message type '00000001'X -> allocate TP request
4	(4)	BITSTRING	4	XCFMS_ATTACH_FLAGS(0)	FMH-5 Attach flags
4	(4)	BITSTRING	1		
		1...		XCFMS_LOCALLU_NQN_CAPABLE	"X'80'" Indicates that the local lu is NQN Capable
5	(5)	BITSTRING	3		
8	(8)	CHARACTER	8	XCFMS_ATTACH_TIME_STAMP	The timestamp, in TOD clock format, of the time the allocate TP request entered the system

Table 125. Structure XCFMS_INBOUND_FMH5 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	CHARACTER	8	XCFMS_LOCAL_LU	Name of the Local LU to which the attach request was directed.
24	(18)	CHARACTER	8	XCFMS_TP_ID	The Transaction Program ID which uniquely identifies the TP created by the allocate TP request
32	(20)	CHARACTER	8	XCFMS_CONV_ID	The Conversation_ID is a token that uniquely identifies a conversation to MVS. This token is the resource identifier of the conversation.
40	(28)	CHARACTER	8	XCFMS_MODE_NAME	The mode name designating the network properties for the session which was allocated for the conversation.
48	(30)	CHARACTER	17	XCFMS_PARTNER_LU	The fully-qualified name of the partner LU (i.e. the LU where the allocate request)
65	(41)	CHARACTER	1		Reserved - padding
66	(42)	SIGNED	2	XCFMS_CONV_CORR_LENGTH	The length of the Conversation Correlator located by the Conversation Correlator Offset.
68	(44)	CHARACTER	26	XCFMS_LUWID	The Logical Unit of Work ID is used to identify the most recent sync point and for accounting purposes. If an LUW_Identifier was not present in the allocate request this field will be zero.
94	(5E)	SIGNED	2	XCFMS_CONV_CORR_OFFSET	The offset into the message area where the Conversation Correlator is located. This field is zero if the Conversation Correlator is not available on FMH-5 request.
96	(60)	SIGNED	2	XCFMS_SECTOKN_OFFSET	The offset into the message area of the security token which identifies the security environment created for the user by RACF.
98	(62)	SIGNED	2	XCFMS_SECTOKN_LENGTH	The length of the security token located by the Security_token_offset.
100	(64)	SIGNED	2	XCFMS_PROFILE_OFFSET	The offset into the message area where the TP_Profile is located. This field is 0 if the TP_Profile was optional and was not found.
102	(66)	SIGNED	2	XCFMS_PROFILE_LENGTH	The length of the TP_Profile This field is 0 if the TP_Profile was optional and was not found.

Table 125. Structure XCFMS_INBOUND_FMH5 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
104	(68)	SIGNED	2	XCFMS_ENVR_OFFSET	The offset into the message area where the ENVR Object is located. This field is 0 if the level of RACF required to support this is not present.
106	(6A)	SIGNED	2	XCFMS_ENVR_LENGTH	The length of the ENVR Object. This field is 0 if the level of RACF required to support this is not present.
108	(6C)	CHARACTER	108	XCFMS_PROFILE_KEY	The TP_Profile key used to search the TP_Profile data set for a TP_Profile.
216	(D8)	SIGNED	2	XCFMS_CONV_TYPE	The type of conversation for this TP.
218	(DA)	SIGNED	2	XCFMS_CONV_SYNC_LEVEL	The sync level associated with this TP.
220	(DC)	CHARACTER	16	XCFMS_CONTEXT_TOKEN	The context token representing the unit of work for the TP
236	(EC)	SIGNED	4	XCFMS_END(0)	End of static message section.
The Attach Message conversation type constants.					
236	(EC)	SIGNED	2	XCFMS_BASIC	Basic conversation
238	(EE)	SIGNED	2	XCFMS_MAPPED	Mapped conversation
The Attach Message conversation sync level constants.					
240	(F0)	SIGNED	2	XCFMS_NONE	Sync Level NONE
242	(F2)	SIGNED	2	XCFMS_CONFIRM	Sync Level CONFIRM
244	(F4)	SIGNED	2	XCFMS_SYNCPT	Sync Level SYNCPT

Table 126. Cross Reference for ATBXCFMS

Name	Offset	Hex Tag
XCFMS_ALT_LU	C	
XCFMS_APPC_INIT	20	1000
XCFMS_APPC_NORESTART	20	1001
XCFMS_APPC_NOTIFYEXIT_DATA	10	
XCFMS_APPC_RESERVE	10	
XCFMS_APPC_RESTART	20	1002
XCFMS_APPC_STATUS	4	
XCFMS_APPC_TIME_STAMP	8	
XCFMS_APPC_VERSION	4	
XCFMS_ATTACH_EXIT_DATA	C	
XCFMS_ATTACH_FLAGS	4	
XCFMS_ATTACH_HEADER	4	
XCFMS_ATTACH_MSG	0	
XCFMS_ATTACH_RESERVED	18	
XCFMS_ATTACH_TIME_STAMP	8	
XCFMS_ATTACH_TPID	4	
XCFMS_BASE_LU	4	80
XCFMS_BASIC	EC	0
XCFMS_CONFIRM	F2	1
XCFMS_CONTEXT_TOKEN	DC	

Table 126. Cross Reference for ATBXCFMS (continued)

Name	Offset	Hex Tag
XCFMS_CONV_CORR_LENGTH	42	
XCFMS_CONV_CORR_OFFSET	5E	
XCFMS_CONV_ID	20	
XCFMS_CONV_SYNC_LEVEL	DA	
XCFMS_CONV_TYPE	D8	
XCFMS_CURRENT_APPC_VERSION	20	F0F0F0F1
XCFMS_END	EC	
XCFMS_ENVR_LENGTH	6A	
XCFMS_ENVR_OFFSET	68	
XCFMS_GENERIC_RESOURCE	14	
XCFMS_HEADER_LENGTH	4	20
XCFMS_INBOUND_ATTACH	18	1
XCFMS_INBOUND_FMH5	0	
XCFMS_INFORMATION	4	
XCFMS_LOCAL_LU	10	
XCFMS_LOCALLU_NQN_CAPABLE	4	80
XCFMS_LU_ACTIVE	18	2000
XCFMS_LU_FLAGS	4	
XCFMS_LU_MSG_TYPE	0	
XCFMS_LU_NAME	10	
XCFMS_LU_NOACTIVE	18	2001
XCFMS_LU_TIME_STAMP	8	
XCFMS_LU_USERVAR	4	
XCFMS_LUM_STATUS	4	
XCFMS_LUM_STATUS_MESSAGE	0	
XCFMS_LUWID	44	
XCFMS_MAPPED	EE	1
XCFMS_MESSAGE_TYPE	0	
XCFMS_MODE_NAME	28	
XCFMS_NONE	F0	0
XCFMS_NQN_CAPABLE	4	20
XCFMS_PARTNER_LU	30	
XCFMS_PROFILE_KEY	6C	
XCFMS_PROFILE_LENGTH	66	
XCFMS_PROFILE_OFFSET	64	
XCFMS_SECTOKN_LENGTH	62	
XCFMS_SECTOKN_OFFSET	60	
XCFMS_SHORT_MESSAGE_HEADER	0	
XCFMS_SYNCPT	F4	2
XCFMS_TP_ID	18	
XCFMS_TRANS_SCHED_NAME	18	
XCFMS_XRF_MSG_RESERVED	1C	

Chapter 39. ATRFZQRY Information

ATRFZQRY Programming Interface Information

ATRFZQRY is a programming interface.

ATRFZQRY Heading Information

Common Name:	RRS ATRQUERY Mappings and Constants
Macro ID:	ATRFZQRY
DSECT Name:	ATRFZRM, ATRFZUR, ATRFZURI ATRFZST
Owning Component:	Resource Recovery Services (SCRRS)
Eye-Catcher ID:	N/A Offset: n/a Length: n/a
Storage Attributes:	Subpool: Determined by caller of ATRQUERY macro Key: Determined by caller of ATRQUERY macro Residency: Determined by caller of ATRQUERY macro
Size:	ATRFZRM (80 bytes) ATRFZUR (184 bytes) ATRFZURI (120 bytes) ATRFZST (48 bytes)
Created by:	Callers of ATRQUERY macro
Pointed to by:	AREAADDR parameter on ATRQUERY macro
Serialization:	N/A
Function:	This macro contains constants and declares for the ATRQUERY executable macro

ATRFZQRY mapping

Table 127. Structure ATRFZRM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRFZRM	
0	(0)	ADDRESS	4	ATRFZRMNEXT	Address/offset of the next ATRFZRM block or zero
4	(4)	BITSTRING	2	ATRFZRMFLAGS	Indicators
6	(6)	SIGNED	2	ATRFZRMVERSION	Version number
8	(8)	CHARACTER	32	ATRFZRMRMNAME	Resource manager name
40	(28)	CHARACTER	16	ATRFZRMRMTOKEN	Resource manager token
56	(38)	SIGNED	4	ATRFZRMRMSTATE	Resource managers state
60	(3C)	ADDRESS	4	ATRFZRMLGPTR	Address/offset of the system/logging group information
64	(40)	ADDRESS	4	ATRFZRMMETADATALEN	Length of the RM Meta Data information
68	(44)	ADDRESS	4	ATRFZRMMETADATALGPTR	Address/offset of the RM Meta Data information
72	(48)	CHARACTER	8	ATRFZRMRMJOBNAME	Resource manager Job name

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ATRFZQRY mapping

Table 128. Structure ATRFZWM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRFZWM	
0	(0)	ADDRESS	4	ATRFZWMNEXT	Address/offset of the next ATRFZWM block or zero
4	(4)	BITSTRING	2	ATRFZWMFLAGS	Indicators
6	(6)	SIGNED	2	ATRFZWMVERSION	Version number
8	(8)	CHARACTER	32	ATRFZWMWMNAME	Resource manager name
40	(28)	ADDRESS	4	ATRFZWMLGPTR	Address/offset of the system/logging group information

Table 129. Structure ATRFZUR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRFZUR	
0	(0)	ADDRESS	4	ATRFZURNEXT	Address/offset of the next ATRFZUR block or zero
4	(4)	BITSTRING	2	ATRFZURFLAGS	Indicators
4	(4)	BITSTRING	0	ATRFZURRESTARTLOG	"X'8000'" UR is only on the restart log
4	(4)	BITSTRING	0	ATRFZURDAMAGED	"X'4000'" UR is damaged
4	(4)	BITSTRING	0	ATRFZURHEURMIXED	"X'2000'" Heuristic mixed condition
4	(4)	BITSTRING	0	ATRFZURDEFERRED	"X'1000'" UR is Deferred
4	(4)	BITSTRING	0	ATRFZURMIXEDSTATES	"X'0800'" UR contains interests that are in mixed states
4	(4)	BITSTRING	0	ATRFZURCFAMILY	"X'0400'" UR is part of a cascaded UR family
4	(4)	BITSTRING	0	ATRFZURCASCADED	"X'0200'" UR is a child UR in a cascaded UR family
4	(4)	BITSTRING	0	ATRFZURFAMILYINCLUDE	"X'0100'" UR was included only because it is part of a cascaded UR family
		1...		ATRFZURMODELOCAL	"X'0080'" UR transaction mode is local
		.1..		ATRFZURMODEGLOBAL	"X'0040'" UR transaction mode is Global UR transaction mode is hybrid when MODELOCAL and MODEGLOBAL are both not set.
		..1.		ATRFZURSYSPLEXCASCADED	"X'0020'" UR is part of sysplex cascade
		...1		ATRFZURMAINLOG	"X'0010'" UR is from Main log
		.... 1...		ATRFZURDELAYEDLOG	"X'0008'" UR is from Delayed log
		.... .1..		ATRFZURDONOTDISPLAY	"X'0004'" UR is a duplicate, Do not use it
		.... ..1.		ATRFZURWAITAPPLCOMPLETE	"X'0002'" WAIT for Appl Complete Set
		1		ATRFZURFLAGS1ACTIVE	"X'0001'" Flags1 Field In Use
6	(6)	SIGNED	2	ATRFZURVERSION	UR version number
8	(8)	CHARACTER	16	ATRFZURURID	UR identifier
24	(18)	SIGNED	4	ATRFZURURSTATE	UR state
28	(1C)	SIGNED	4	ATRFZURURTYPE	UR type
32	(20)	CHARACTER	8	ATRFZURCRTIME	UR create time, in TOD format
40	(28)	SIGNED	2	ATRFZURASID	ASID that created the UR

Table 129. Structure ATRFZUR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
42	(2A)	BITSTRING	2	ATRFZURFLAGS1	Indicators
42	(2A)	BITSTRING	0	ATRFZURWAITSUBURS	"X'8000'" Coord UR is WAITING for SUB URs
42	(2A)	BITSTRING	0	ATRFZURWAITEXITS	"X'4000'" UR WAITing for SyncPoint Exits
44	(2C)	SIGNED	4	ATRFZURPROTOCOL	UR protocol
48	(30)	SIGNED	4	ATRFZURLUWIDLEN	LUWID length
52	(34)	ADDRESS	4	ATRFZURLUWIDPTR	Address/offset of LUWID
56	(38)	SIGNED	4	ATRFZUREIDLEN	EID length
60	(3C)	ADDRESS	4	ATRFZUREIDPTR	Address/offset of EID
64	(40)	SIGNED	4	ATRFZURURICOUNT	Number of ATRFZURI blocks
68	(44)	ADDRESS	4	ATRFZURURIADDR	Address/offset of the first ATRFZURI block
72	(48)	BITSTRING	8	ATRFZURURFUNCMAP	UR function map
80	(50)	SIGNED	4	ATRFZURXIDLEN	XID length
84	(54)	ADDRESS	4	ATRFZURXIDPTR	Address/offset of XID
88	(58)	ADDRESS	4	ATRFZURTSTPTR	Address/offset of ATRFZTST array
92	(5C)	CHARACTER	32	ATRFZURWMNAME	Work Manager name
124	(7C)	ADDRESS	4	ATRFZURLGPTR	Addr/offset of system/logging group info
128	(80)	CHARACTER	16	ATRFZURPARENTURID	UR ID of the parent of this UR
144	(90)	ADDRESS	4	ATRFZURCFMPTR	Addr/offset of ATRFZCFM array, zero if ATRFZURCFAMILY is 0
148	(94)	CHARACTER	32	ATRFZURSURID	Sysplex UR ID
180	(B4)	SIGNED	4	ATRFZURELEMENT_LEN	Total length of the returned info including the UR and URi info as well as the pdata for each URi

Table 130. Structure ATRFZURI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRFZURI	
0	(0)	ADDRESS	4	ATRFZURINEXT	Address/offset of the next ATRFZURI block or zero
4	(4)	BITSTRING	2	ATRFZURIFLAGS	Indicators
		1...		ATRFZURIRSTRTREQ	"X'80'" URI represents an interest of an RM that is required to restart with RRS
		.1..		ATRFZURIDEFERRED	"X'40'" URI represents an interest that has been deferred
6	(6)	SIGNED	2	ATRFZURIVERSION	URI version number
8	(8)	CHARACTER	16	ATRFZURITOKEN	URI token
24	(18)	CHARACTER	32	ATRFZURIRMNAME	Resource manager name
56	(38)	SIGNED	4	ATRFZURIINTTYPE	URI Interest type
60	(3C)	SIGNED	4	ATRFZURIPROTOCOL	URI Protocol
64	(40)	SIGNED	4	ATRFZURIROLE	URI Role
68	(44)	SIGNED	4	ATRFZURISTATECHECK_RC	State Check exit return code
72	(48)	SIGNED	4	ATRFZURIPREPARE_RC	InPrepare exit return code
76	(4C)	SIGNED	4	ATRFZURICOMMIT_RC	InCommit exit return code
80	(50)	SIGNED	4	ATRFZURIBACKOUT_RC	InBackout exit return code
84	(54)	SIGNED	4	ATRFZURIEND_RC	InEnd exit return code

Table 130. Structure ATRFZURI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
88	(58)	SIGNED	4	ATRFZURICOMPLETION_RC	Completion exit return code
92	(5C)	SIGNED	4	ATRFZURIONLYAGENT_RC	Only Agent exit return code
96	(60)	SIGNED	4	ATRFZURIDISTSYNCPOINT_RC	Distributed Syncpoint exit return code
100	(64)	SIGNED	4	ATRFZURIEXITFAILED_RC	Exit Failed exit return code
104	(68)	ADDRESS	4	ATRFZURITSTPTR	Address/offset of ATRFZTST array
108	(6C)	SIGNED	4	ATRFZURISTATE	URI State
112	(70)	SIGNED	4	ATRFZURIPIDLEN	PID length
116	(74)	ADDRESS	4	ATRFZURIPIDPTR	Address/offset of PID data
120	(78)	SIGNED	4	ATRFZURIPREPREPARE_RC	Pre-Prepare exit return code

Table 131. Structure ATRFZTST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRFZTST	
0	(0)	DBL WORD	8	(0)	
0	(0)	BITSTRING	2	ATRFZTSTFLAGS	Indicators
2	(2)	SIGNED	2	ATRFZTSTVERSION	TST Version Number
4	(4)	SIGNED	4	ATRFZTSTTYPE	Type of Timestamp Table 1=UR Timestamp Table 2=URI Timestamp Table
8	(8)	CHARACTER	8	ATRFZTSTSTRSCHK	Start GMT for State Check
16	(10)	CHARACTER	8	ATRFZTSTENDSCHK	End GMT for State Check
24	(18)	CHARACTER	8	ATRFZTSTSTRPRP	Start GMT for Prepare
32	(20)	CHARACTER	8	ATRFZTSTENDPRP	End GMT for Prepare
40	(28)	CHARACTER	8	ATRFZTSTSTRDBT	Start GMT for Doubt
48	(30)	CHARACTER	8	ATRFZTSTENDDBT	End GMT for Doubt
56	(38)	CHARACTER	8	ATRFZTSTSTRCMT	Start GMT for Commit
64	(40)	CHARACTER	8	ATRFZTSTENDCMT	End GMT for Commit
72	(48)	CHARACTER	8	ATRFZTSTSTRBAK	Start GMT for Backout
80	(50)	CHARACTER	8	ATRFZTSTENDBAK	End GMT for Backout
88	(58)	CHARACTER	8	ATRFZTSTSTREND	Start GMT for End
96	(60)	CHARACTER	8	ATRFZTSTENDEND	End GMT for End
104	(68)	CHARACTER	8	ATRFZTSTSTROLA	Start GMT for Only Agent
112	(70)	CHARACTER	8	ATRFZTSTENDOLA	End GMT for Only Agent
120	(78)	CHARACTER	8	ATRFZTSTSTRCMP	Start GMT for Completion
128	(80)	CHARACTER	8	ATRFZTSTENDCMP	End GMT for Completion
136	(88)	CHARACTER	8	ATRFZTSTSTRPPP	Start GMT for Pre-Prepare
144	(90)	CHARACTER	8	ATRFZTSTENDPPP	End GMT for Pre-Prepare

Table 132. Structure ATRFZSRT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRFZSRT	
0	(0)	DBL WORD	8	(0)	
0	(0)	SIGNED	4	ATRFZSRTKEY	Sort key
4	(4)	SIGNED	4	ATRFZSRTOPTIONS	Sort options

Table 133. Structure ATRFZLG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRFZLG	
0	(0)	DBL WORD	8	(0)	
0	(0)	BITSTRING	2	ATRFZLGFLAGS	Indicators
2	(2)	SIGNED	2	ATRFZLGVERSION	LG Version Number
4	(4)	SIGNED	4	ATRFZLGTYPE	Type of UR Group and System Table
8	(8)	CHARACTER	8	ATRFZLGSYSNAME	Sysname
16	(10)	CHARACTER	8	ATRFZLGGNAME	Logging Group Name

Table 134. Structure ATRFZSI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRFZSI	
0	(0)	DBL WORD	8	(0)	
0	(0)	ADDRESS	4	ATRFZSINEXT	Address/offset of the next ATRFZSI block or zero
4	(4)	BITSTRING	2	ATRFZSIFLAGS	Undefined
6	(6)	SIGNED	2	ATRFZSIVERSION	LG Version Number
8	(8)	CHARACTER	8	ATRFZSISYSNAME	Sysname
16	(10)	CHARACTER	16	ATRFZSIMEMNAME	XCF Member Name
32	(20)	CHARACTER	1	ATRFZSIMEMSTATE	XCF Member State
32	(20)	X'1'	0	ATRFZSIMEMSTATE_ACTIVE	"1" XCF Member State = ACTIVE
33	(21)	CHARACTER	7	ATRFZSIRSVD	Reserved
40	(28)	CHARACTER	8	ATRFZSIGNAME	Logging Group Name

Table 135. Structure ATRFZRCA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRFZRCA	
0	(0)	DBL WORD	8	(0)	
0	(0)	CHARACTER	8	ATRFZRCAGNAME	Logging Group name
8	(8)	CHARACTER	8	ATRFZRCASYSNAME	System name
16	(10)	SIGNED	4	ATRFZRCAATRRC	ATRQUERY/ATRSRV Return Code
20	(14)	SIGNED	4	ATRFZRCAATRRSN	ATRQUERY/ATRSRV Reason Code
24	(18)	SIGNED	4	ATRFZRCASERVICEID	Failing Service Identifier !
28	(1C)	SIGNED	4	ATRFZRCASERVICERC	Failing Service Return Code !
32	(20)	SIGNED	4	ATRFZRCASERVICERSN	Failing Service Reason Code !

Table 136. Structure ATRFZCFM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRFZCFM	
0	(0)	DBL WORD	8	(0)	
0	(0)	BITSTRING	2	ATRFZCFMFLAGS	Indicators
0	(0)	BITSTRING	0	ATRFZCFMPARENTNOTMAPPED	"X'8000'" The parent of this UR is not included in the output area
0	(0)	BITSTRING	0	ATRFZCFMSIBNOTMAPPED	"X'4000'" The sibling of this UR is not included in the output area

Table 136. Structure ATRFZCFM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	ATRFZCFMCHILDNOTMAPPED	"X'2000'" The child of this UR is not included in the output area
2	(2)	SIGNED	2	ATRFZCFMVERSION	CFM version number
4	(4)	SIGNED	4	ATRFZCFMPRNTPTR	Address of the ATRFZUR entry of the parent of this UR. Zero if this UR is a top level UR or if ATRFZCFMPARENTNOTMAPPED is 1
8	(8)	SIGNED	4	ATRFZCFMSIBPTR	Address of the ATRFZUR entry of the next sibling of this UR. Zero if this UR has no additional siblings or if this UR is a top level UR or of ATRFZCFMSIBNOTMAPPED is 1
12	(C)	SIGNED	4	ATRFZCFMCHILDPTR	Address of the ATRFZUR entry of the child of this UR. Zero if this UR has no children or if ATRFZCFMCHILDNOTMAPPED is 1

Table 137. Structure ATRFZST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRFZST	
0	(0)	DBL WORD	8	(0)	
0	(0)	ADDRESS	4	ATRFZSTNEXT	Address/offset of the next ATRFZST block or zero
4	(4)	BITSTRING	2	ATRFZSTFLAGS	Unused
6	(6)	SIGNED	2	ATRFZSTVERSION	ST Version Number
8	(8)	CHARACTER	8	ATRFZSTGNAME	Logging Group Name
16	(10)	CHARACTER	8	ATRFZSTSYSNAME	Sysname
24	(18)	SIGNED	4	ATRFZSTSTATE	UR state
28	(1C)	SIGNED	4	ATRFZSTNUMOFURS	Number of URs in that state
32	(20)	CHARACTER	8	ATRFZSTMINTIME	Minimum UR Duration, TOD format. See message ATR623I for explanation.
40	(28)	CHARACTER	8	ATRFZSTMAXTIME	Maximum UR Duration, TOD format. See message ATR623I for explanation.

Table 138. Cross Reference for ATRFZQRY

Name	Offset	Hex Tag
ATRFZCFM	0	
ATRFZCFMCHILDNOTMAPPED	0	2000
ATRFZCFMCHILDPTR	C	
ATRFZCFMFLAGS	0	
ATRFZCFMPARENTNOTMAPPED	0	8000
ATRFZCFMPRNTPTR	4	
ATRFZCFMSIBNOTMAPPED	0	4000
ATRFZCFMSIBPTR	8	
ATRFZCFMVERSION	2	
ATRFZLG	0	

Table 138. Cross Reference for ATRFZQRY (continued)

Name	Offset	Hex Tag
ATRFZLGFLAGS	0	
ATRFZLGGNAME	10	
ATRFZLGSYSNAME	8	
ATRFZLGTYPE	4	
ATRFZLGVERSION	2	
ATRFZRCA	0	
ATRFZRCAATRRC	10	
ATRFZRCAATRRSN	14	
ATRFZRCAGNAME	0	
ATRFZRCASERVICEID	18	
ATRFZRCASERVICERC	1C	
ATRFZRCASERVICERSN	20	
ATRFZRCASYSNAME	8	
ATRFZRM	0	
ATRFZRMFLAGS	4	
ATRFZRMLGPTR	3C	
ATRFZRMMETADATALEN	40	
ATRFZRMMETADATALGPTR	44	
ATRFZRMNEXT	0	
ATRFZRMRMJOBNAME	48	
ATRFZRMRMNAME	8	
ATRFZRMRMSTATE	38	
ATRFZRMRMTOKEN	28	
ATRFZRMVERSION	6	
ATRFZSI	0	
ATRFZSIFLAGS	4	
ATRFZSIGNAME	28	
ATRFZSIMEMNAME	10	
ATRFZSIMEMSTATE	20	
ATRFZSIMEMSTATE_ACTIVE	20	1
ATRFZSINEXT	0	
ATRFZSIRSVD	21	
ATRFZSISYSNAME	8	
ATRFZSIVERSION	6	
ATRFZSRT	0	
ATRFZSRTKEY	0	
ATRFZSRTOPTIONS	4	
ATRFZST	0	
ATRFZSTFLAGS	4	
ATRFZSTGNAME	8	
ATRFZSTMAXTIME	28	
ATRFZSTMINTIME	20	
ATRFZSTNEXT	0	
ATRFZSTNUMOFURS	1C	
ATRFZSTSTATE	18	
ATRFZSTSYSNAME	10	
ATRFZSTVERSION	6	
ATRFZTST	0	
ATRFZTSTENDBAK	50	

Table 138. Cross Reference for ATRFZQRY (continued)

Name	Offset	Hex Tag
ATRFZTSTENDCMP	80	
ATRFZTSTENDCMT	40	
ATRFZTSTENDDBT	30	
ATRFZTSTENDEND	60	
ATRFZTSTENDOLA	70	
ATRFZTSTENDPPP	90	
ATRFZTSTENDPRP	20	
ATRFZTSTENDSCHK	10	
ATRFZTSTFLAGS	0	
ATRFZTSTSTRBAK	48	
ATRFZTSTSTRCMP	78	
ATRFZTSTSTRCMT	38	
ATRFZTSTSTRDBT	28	
ATRFZTSTSTREND	58	
ATRFZTSTSTROLA	68	
ATRFZTSTSTRPPP	88	
ATRFZTSTSTRPRP	18	
ATRFZTSTSTRSCHK	8	
ATRFZTSTTYPE	4	
ATRFZTSTVERSION	2	
ATRFZUR	0	
ATRFZURASID	28	
ATRFZURCASCADED	4	200
ATRFZURCFAMILY	4	400
ATRFZURCFMPTR	90	
ATRFZURCRTIME	20	
ATRFZURDAMAGED	4	4000
ATRFZURDEFERRED	4	1000
ATRFZURDELAYEDLOG	4	8
ATRFZURDONOTDISPLAY	4	4
ATRFZUREIDLEN	38	
ATRFZUREIDPTR	3C	
ATRFZURELEMENT_LEN	B4	
ATRFZURFAMILYINCLUDE	4	100
ATRFZURFLAGS	4	
ATRFZURFLAGS1	2A	
ATRFZURFLAGS1ACTIVE	4	1
ATRFZURHEURMIXED	4	2000
ATRFZURI	0	
ATRFZURIBACKOUT_RC	50	
ATRFZURICOMMIT_RC	4C	
ATRFZURICOMPLETION_RC	58	
ATRFZURIDEFERRED	4	40
ATRFZURIDISTSYNCPOINT_RC	60	
ATRFZURIEND_RC	54	
ATRFZURIEXITFAILED_RC	64	
ATRFZURIFLAGS	4	
ATRFZURIINTTYPE	38	
ATRFZURINEXT	0	

Table 138. Cross Reference for ATRFZQRY (continued)

Name	Offset	Hex Tag
ATRFZURIONLYAGENT_RC	5C	
ATRFZURIPIDLEN	70	
ATRFZURIPIDPTR	74	
ATRFZURIPREPARE_RC	48	
ATRFZURIPREPREPARE_RC	78	
ATRFZURIPROTOCOL	3C	
ATRFZURIRMNAME	18	
ATRFZURIROLE	40	
ATRFZURIRSTRTREQ	4	80
ATRFZURISTATE	6C	
ATRFZURISTATECHECK_RC	44	
ATRFZURITOKEN	8	
ATRFZURITSTPTR	68	
ATRFZURIVERSION	6	
ATRFZURLGPTR	7C	
ATRFZURLUWIDLEN	30	
ATRFZURLUWIDPTR	34	
ATRFZURMAINLOG	4	10
ATRFZURMIXEDSTATES	4	800
ATRFZURMODEGLOBAL	4	40
ATRFZURMODELOCAL	4	80
ATRFZURNEXT	0	
ATRFZURPARENTURID	80	
ATRFZURPROTOCOL	2C	
ATRFZURRESTARTLOG	4	8000
ATRFZURSURID	94	
ATRFZURSYSPLEXCASCADED	4	20
ATRFZURTSTPTR	58	
ATRFZURURFUNCMAP	48	
ATRFZURURIADDR	44	
ATRFZURURICOUNT	40	
ATRFZURURID	8	
ATRFZURURSTATE	18	
ATRFZURURTYPE	1C	
ATRFZURVERSION	6	
ATRFZURWAITAPPLCOMPLETE	4	2
ATRFZURWAITEXITS	2A	4000
ATRFZURWAITSUBURS	2A	8000
ATRFZURWMNAME	5C	
ATRFZURXIDLEN	50	
ATRFZURXIDPTR	54	
ATRFZWM	0	
ATRFZWMFLAGS	4	
ATRFZWMLGPTR	28	
ATRFZWMNEXT	0	
ATRFZWMVERSION	6	
ATRFZWMWMNAME	8	

Chapter 40. ATRFZSRV Information

ATRFZSRV Programming Interface Information

ATRFZSRV is a programming interface.

ATRFZSRV Heading Information

Common Name:	RRS ATRSRV Constants
Macro ID:	ATRFZSRV
DSECT Name:	N/A
Owning Component:	Resource Recovery Services (SCRRS)
Eye-Catcher ID:	N/A Offset: n/a Length: n/a
Storage Attributes:	Main Storage: n/a Virtual Storage: n/a Auxiliary Storage: n/a Subpool: n/a Key: n/a Residency: n/a
Size:	See assembler listing.
Created by:	N/A
Pointed to by:	N/A
Serialization:	N/A
Function:	This macro contains constants and declares for the ATRSRV executable macro.

ATRFZSRV mapping

Table 139. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

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Table 139. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
%ATRFZSRV1: ;
         START OF SPECIFICATIONS
  01 Macro Name: ATRFZSRV
  01 Descriptive Name: RRS ATRSRV Constants
  02 Acronym: N/A
  01 PROPRIETARY STATEMENT=
   LICENSED MATERIALS - PROPERTY OF IBM
   5694-A01 COPYRIGHT IBM CORP. 1997, 2008
   STATUS= HBB7750
  01 PROPRIETARY STATEMENT=
  01 EXTERNAL CLASSIFICATION: GUPI
  01 END OF EXTERNAL CLASSIFICATION:
  01 COMPONENT: Resource Recovery Services (SCRRS)
  01 DSECT Name: N/A
  01 Eye-Catcher: N/A
  02 Offset: n/a
  02 Length: n/a
  01 Storage Attributes:
  02 Subpool: n/a
  02 Key: n/a
  02 Residency: n/a
  02 Main Storage: n/a
  02 Auxiliary Storage: n/a
  02 Virtual Storage: n/a
  01 Size: See assembler listing.
  01 Created by: N/A
  01 Pointed to by: N/A
  01 Serialization: N/A
  01 Function: This macro contains constants and declares for
               the ATRSRV executable macro.
  01 Method of Access:
  02 PL/X: %INCLUDE SYSLIB(ATRFZSRV)
  02 ASM : ATRFZSRV
  01 Distribution Library: AMACLIB
  01 Change Activity:
     PN REASON RLSE DATE ORG COMMENTS
     $L0=RRSCS HBB6603 960201 PDEV: Resource Recovery Services
     $L1=RRSCS HBB6603 960229 PDEV: RemoveInt/ResInDoubt support
     $L2=RRSCS HBB6603 960515 PDEV: RemoveInt/ResInDoubt support
     $L3=RRSCS HBB6603 960729 PDEV: URID not found return code
     $P0=PQC1125 HBB6603 960805 PDEV: Add RACROUTE call
                                      (TRSQ - OW27323)
     $L4=RSXID HBB6605 970601 PDEM: RRS/BOSS XID Support
     $L5=RRSSM HBB6608 981001 PDEV: RRS Sysplex Systems
                                      Managment
     $L6=RRSSM HBB6608 981101 PDEV: RRS Sysplex Systems
                                      Managment
     $L7=RRSSM HBB6608 981120 PDEV: RRS Sysplex Systems
                                      Managment
     $P1=PWY0581 JBB6609 990815 PDEM: Add no interests for UR
                                      reason code
     $P2=PWY0902 JBB6609 990931 PDEV: Add reason code
     $L8=RRSSC HBB7705 001031 PDEV: Multisystem Cascaded
                                      Transactions
     $L9=RRSDRM HBB7730 041004 B7HGBL: Delete old RMs
     $LA=RRSRMU HBB7740 060619 B7HGBL: RM UnRegister Support
     $P3=ME08505 HBB7740 070112 B7HGBL: Licensed Copyright change
     $LB=RRSFGT HBB7750 071129 B7HGBL: ATRSRV Forget support
    END OF SPECIFICATIONS
       %GOTO ATRFZSRV2;
 Return codes
```

Table 139. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'0'	0	ATRSRV_SUCCESS	"0" Function completed successfully
0	(0)	X'4'	0	ATRSRV_WARNING	"4" Function completed with warnings
0	(0)	X'8'	0	ATRSRV_FAILURE	"8" Function failed
Reason codes					
0	(0)	X'1'	0	ATRSRV_UR_NOT_IN_DOUBT	"1" The specified UR is not In-Doubt
0	(0)	X'2'	0	ATRSRV_RM_IS_ACTIVE	"2" The REMOVINT or REMOVRM function was requested for an active resource manager.
0	(0)	X'3'	0	ATRSRV_RRS_NOT_ACTIVE	"3" RRS is not active
0	(0)	X'4'	0	ATRSRV_UR_HAS_DSRM	"4" A REMOVINT function was requested for the DSRM of a In-Doubt UR.
0	(0)	X'5'	0	ATRSRV_BAD_REMOVINT_PARM	"5" At least one of RMNAME or URID must be specified with REMOVINT.
0	(0)	X'6'	0	ATRSRV_URID_NOT_VALID	"6" The input URID is invalid or the associated UR does not exist
0	(0)	X'7'	0	ATRSRV_RID_NOT_SUPPORTED	"7" Commit/Backout processing not supported for this UR
0	(0)	X'8'	0	ATRSRV_URID_NOT_FOUND	"8" The UR can not be found for the input URID
0	(0)	X'9'	0	ATRSRV_NO_UR_FOR_RM	"9" There are no URs associated with this resource manager
0	(0)	X'A'	0	ATRSRV_NOT_AUTH	"10" The caller is not supervisor state, key 0-7
0	(0)	X'B'	0	ATRSRV_NOT_SAF_AUTH	"11" The caller does not have ALTER access to RRS commands
0	(0)	X'C'	0	ATRSRV_RRS_DOWNLEVEL	"12" RRS on this system is downlevel and cannot honor the function
0	(0)	X'F'	0	ATRSRV_GNAME_INVALID	"15" The specified GNAME does not exist or is not valid with the SYSNAME specified !
0	(0)	X'10'	0	ATRSRV_SYSNAME_INVALID	"16" The specified SYSNAME does not exist or is not valid with the GNAME specified !
0	(0)	X'16'	0	ATRSRV_INSTANCE_FAILURE	"22" Error(s) occurred in the remote request !
0	(0)	X'17'	0	ATRSRV_REMOTE_WARNING	"23" Error(s) occurred on some systems involved in the request !
0	(0)	X'18'	0	ATRSRV_REMOTE_ERROR	"24" Error(s) occurred on all systems involved in the request !
0	(0)	X'19'	0	ATRSRV_RESP_NOT_RECEIVED	"25" Response not received from the remote system !
0	(0)	X'1A'	0	ATRSRV_REMOTE_NOT_ACTIVE	"26" The remote system is not active !
0	(0)	X'1B'	0	ATRSRV_UR_HAS_NO_INT	"27" No interests were found for UR !

Table 139. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'1C'	0	ATRSRV_UR_NOT_TOP	"28" UR must be top for this function!
0	(0)	X'1D'	0	ATRSRV_RIN_NOT_SUPPORTED	"29" Remove Interest processing not supported for this UR
0	(0)	X'1E'	0	ATRSRV_RMSTILLHASINTERESTS	"30" Delete RM cannot be completed since the RM has interests in one or more UR. !
0	(0)	X'1F'	0	ATRSRV_RMISNOTKNOWNTORRS	"31" The RM specified on the Delete RM request could not be found in the RM Data log or as an RM object. !
0	(0)	X'20'	0	ATRSRV_DELETERMOBJECTNOTSUPPORTED	"32" The RM was deleted from the RRS logs, but one or more systems in the logging group do not support Delete RM so if the RM storage was on those systems, that storage will persist.
0	(0)	X'21'	0	ATRSRV_ERRORDELETEINGRMLOGENTRY	"33" The RM was not deleted due to errors deleting the RM from the RRS logs. Try the request again. !
0	(0)	X'22'	0	ATRSRV_DELETERMNOTSUPPORTED	"34" The RM cannot be deleted since it is on a system that does not support the Delete RM function. !
0	(0)	X'23'	0	ATRSRV_RM_NOT_FOUND	"35" The RM cannot be found on the specified RRS system. !
0	(0)	X'24'	0	ATRSRV_RM_STILL_REGISTERED	"36" The RM is still registered with Registration Services and cannot be unregistered with RRS. !
0	(0)	X'25'	0	ATRSRV_RM_UNREGISTERED_NOT_ALLOWED	"37" Unregister processing for an RM is not allowed when the RM state is either Reset or Unset.
0	(0)	X'26'	0	ATRSRV_UR_NOT_IN_FORGET	"38" The specified UR is not In-Forget !
0	(0)	X'27'	0	ATRSRV_NOT_SERVER_DSRM	"39" The resource manager does not have the server distributed syncpoint resource manager role for the unit of recovery.
0	(0)	X'FFF'	0	ATRSRV_UNEXPECTED_ERROR	"4095" An unexpected error ocurred !

Table 140. Cross Reference for ATRFZSRV

Name	Offset	Hex Tag
ATRSRV_BAD_REMOVINT_PARM	0	5
ATRSRV_DELETERMNOTSUPPORTED	0	22
ATRSRV_DELETERMOBJECTNOTSUPPORTED	0	20
ATRSRV_ERRORDELETEINGRMLOGENTRY	0	21

Table 140. Cross Reference for ATRFZSRV (continued)

Name	Offset	Hex Tag
ATRSRV_FAILURE	0	8
ATRSRV_GNAME_INVALID	0	F
ATRSRV_INSTANCE_FAILURE	0	16
ATRSRV_NO_UR_FOR_RM	0	9
ATRSRV_NOT_AUTH	0	A
ATRSRV_NOT_SAF_AUTH	0	B
ATRSRV_NOT_SERVER_DSRM	0	27
ATRSRV_REMOTE_ERROR	0	18
ATRSRV_REMOTE_NOT_ACTIVE	0	1A
ATRSRV_REMOTE_WARNING	0	17
ATRSRV_RESP_NOT_RECEIVED	0	19
ATRSRV_RID_NOT_SUPPORTED	0	7
ATRSRV_RIN_NOT_SUPPORTED	0	1D
ATRSRV_RM_IS_ACTIVE	0	2
ATRSRV_RM_NOT_FOUND	0	23
ATRSRV_RM_STILL_REGISTERED	0	24
ATRSRV_RM_UNREGISTERED_NOT_ALLOWED	0	25
ATRSRV_RMISNOTKNOWNTORRS	0	1F
ATRSRV_RMSTILLHASINTERESTS	0	1E
ATRSRV_RRS_DOWNLEVEL	0	C
ATRSRV_RRS_NOT_ACTIVE	0	3
ATRSRV_SUCCESS	0	0
ATRSRV_SYSNAME_INVALID	0	10
ATRSRV_UNEXPECTED_ERROR	0	FFF
ATRSRV_UR_HAS_DSRM	0	4
ATRSRV_UR_HAS_NO_INT	0	1B
ATRSRV_UR_NOT_IN_DOUBT	0	1
ATRSRV_UR_NOT_IN_FORGET	0	26
ATRSRV_UR_NOT_TOP	0	1C
ATRSRV_URID_NOT_FOUND	0	8
ATRSRV_URID_NOT_VALID	0	6
ATRSRV_WARNING	0	4

Chapter 41. ATRRASM Information

ATRRASM Programming Interface Information

ATRRASM is a programming interface.

ATRRASM Heading Information

Common Name:	RRS Assembler Declares
Macro ID:	ATRRASM
DSECT Name:	ATRXPARMLIST, ATREINTPARMLIST, ATRDINTPARMLIST, ATRPDUEPARMLIST, ATRIBRSPARMLIST, ATRIERSPARMLIST, ATRIRNIPARMLIST, ATRIRRIPARMLIST, ATRIRLNPARMLIST, ATRISLNPARMLIST, ATRREICPARMLIST, ATRRIDPARMLIST, ATRRURDPARMLIST, ATRRUSIPARMLIST, ATRRWIDPARMLIST, ATRSITPARMLIST, ATRSPIDPARMLIST, ATRSROIPARMLIST, ATRSSPCPARMLIST, ATRSUSIPARMLIST, ATRSWIDPARMLIST, ATRBACKPARMLIST, ATRCMITPARMLIST, ATRRURD1PARMLIST, ATRRURD2PARMLIST, ATRCCUR2PARMLIST, ATREINT2PARMLIST, ATRSUSI2PARMLIST, ATRRUSI2PARMLIST, ATRSWID2PARMLIST, ATRRWID2PARMLIST, ATRSPSP2PARMLIST, ATRDPSP2PARMLIST, ATRABCKPARMLIST, ATRACMTPARMLIST, ATRADCTPARMLIST, ATRADCT1PARMLIST, ATRAFGTPARMLIST, ATRAPRPPARMLIST, ATRXPARMEXITFLAGS
Owning Component:	RRS (SCRRS)
Eye-Catcher ID:	none
Storage Attributes:	Subpool: ATRXPARMLIST and ATRXPARMEXITFLAGS (241) Other DSECTS (Determined by caller of ATR callable service) Key: ATRXPARMLIST and ATRXPARMEXITFLAGS (key of Resource Manager when it set exits with RRS/MVS) Other DSECTS (Determined by caller of ATR callable service) Residency: ATRXPARMLIST and ATRXPARMEXITFLAGS (above) Other DSECTS (Determined by caller of ATR callable service)

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ATRRASM Heading Information

Size:	ATRXPARMLIST (56 bytes) ATREINTPARMLIST (56 bytes) ATRDINTPARMLIST (8 bytes) ATRPDUEPARMLIST (16 bytes) ATRIBRSPARMLIST (8 bytes) ATRIERSPARMLIST (8 bytes) ATRIRNIPARMLIST (40 bytes) ATRIRRIPARMLIST (16 bytes) ATRIRLNPARMLIST (28 bytes) ATRISLNPARMLIST (16 bytes) ATRREICPARMLIST (12 bytes) ATRRIDPARMLIST (36 bytes) ATRRURDPARMLIST (16 bytes) ATRRUSIPARMLIST (20 bytes) ATRRWIDPARMLIST (32 bytes) ATRSITPARMLIST (28 bytes) ATRSPIDPARMLIST (16 bytes) ATRSROIPARMLIST (36 bytes) ATRSSPCPARMLIST (24 bytes) ATRSUSIPARMLIST (16 bytes) ATRSWIDPARMLIST (24 bytes) ATRBACKPARMLIST (4 bytes) ATRCMITPARMLIST (4 bytes) ATRRURD1PARMLIST(20 bytes) ATRRURD2PARMLIST(24 bytes) ATRCCUR2PARMLIST(20 bytes) ATREINT2PARMLIST(72 bytes) ATRSUSI2PARMLIST(16 bytes) ATRRUSI2PARMLIST(20 bytes) ATRSWID2PARMLIST(24 bytes) ATRRWID2PARMLIST(32 bytes) ATRSPSP2PARMLIST(12 bytes) ATRDPSP2PARMLIST(12 bytes) ATRABCKPARMLIST(12 bytes) ATRACMTPARMLIST(12 bytes) ATRADCTPARMLIST(12 bytes) ATRADCT1PARMLIST(16 bytes) ATRAFGTPARMLIST(12 bytes) ATRAPRPPARMLIST(12 bytes) ATRXPARMEXITFLAGS (4 bytes)
Created by:	ATRXPARMLIST and ATRXPARMEXITFLAGS are created by RRS/MVS. The ATR callable services parameter lists are created by programs which invoke the corresponding ATR callable services.
Pointed to by:	ATRXPARMLIST is pointed to by Register 1 on entry to an RRS/MVS exit. Each ATR callable service parameter list is pointed to by Register 1 on entry to the corresponding ATR callable service.
Serialization:	n/a
Function:	ATRRASM defines RRS constants and declares for programs written in the Assembler language which will invoke the RRS ATR callable services (e.g. ATREINT, ATRDINT, etc.). ATRRASM also maps the RRS/MVS exit parameter lists.

ATRRASM mapping

Table 141. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'10000'	0	ATR_DINT_PRIM_ADDR	"65536" ('00010000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'10001'	0	ATR_DINT_NOT_ADDR	"65537" ('00010001'X) The parameters passed by the caller are not addressable.
0	(0)	X'20000'	0	ATR_EINT_PRIM_ADDR	"131072" ('00020000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'20001'	0	ATR_EINT_NOT_ADDR	"131073" ('00020001'X) The parameters passed by the caller are not addressable.
0	(0)	X'30000'	0	ATR_IBRS_PRIM_ADDR	"196608" ('00030000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'30001'	0	ATR_IBRS_NOT_ADDR	"196609" ('00030001'X) The parameters passed by the caller are not addressable.
0	(0)	X'40000'	0	ATR_IERS_PRIM_ADDR	"262144" ('00040000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'40001'	0	ATR_IERS_NOT_ADDR	"262145" ('00040001'X) The parameters passed by the caller are not addressable.
0	(0)	X'50000'	0	ATR_IRLN_PRIM_ADDR	"327680" ('00050000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'50001'	0	ATR_IRLN_NOT_ADDR	"327681" ('00050001'X) The parameters passed by the caller are not addressable.
0	(0)	X'60000'	0	ATR_IRNI_PRIM_ADDR	"393216" ('00060000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'60001'	0	ATR_IRNI_NOT_ADDR	"393217" ('00060001'X) The parameters passed by the caller are not addressable.
0	(0)	X'70000'	0	ATR_IRRI_PRIM_ADDR	"458752" ('00070000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'70001'	0	ATR_IRRI_NOT_ADDR	"458753" ('00070001'X) The parameters passed by the caller are not addressable.

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'80000'	0	ATR_ISLN_PRIM_ADDR	"524288" ('00080000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'80001'	0	ATR_ISLN_NOT_ADDR	"524289" ('00080001'X) The parameters passed by the caller are not addressable.
0	(0)	X'90000'	0	ATR_PDUE_PRIM_ADDR	"589824" ('00090000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'90001'	0	ATR_PDUE_NOT_ADDR	"589825" ('00090001'X) The parameters passed by the caller are not addressable.
0	(0)	X'A0000'	0	ATR_REIC_PRIM_ADDR	"655360" ('000A0000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'A0001'	0	ATR_REIC_NOT_ADDR	"655361" ('000A0001'X) The parameters passed by the caller are not addressable.
0	(0)	X'B0000'	0	ATR_RID_PRIM_ADDR	"720896" ('000B0000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'B0001'	0	ATR_RID_NOT_ADDR	"720897" ('000B0001'X) The parameters passed by the caller are not addressable.
0	(0)	X'C0000'	0	ATR_RURD_PRIM_ADDR	"786432" ('000C0000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'C0001'	0	ATR_RURD_NOT_ADDR	"786433" ('000C0001'X) The parameters passed by the caller are not addressable.
0	(0)	X'D0000'	0	ATR_RUSI_PRIM_ADDR	"851968" ('000D0000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'D0001'	0	ATR_RUSI_NOT_ADDR	"851969" ('000D0001'X) The parameters passed by the caller are not addressable.
0	(0)	X'E0000'	0	ATR_RWID_PRIM_ADDR	"917504" ('000E0000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'E0001'	0	ATR_RWID_NOT_ADDR	"917505" ('000E0001'X) The parameters passed by the caller are not addressable.
0	(0)	X'F0000'	0	ATR_SIT_PRIM_ADDR	"983040" ('000F0000'X) The parameters passed by the caller are not in the primary address space.

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'F0001'	0	ATR_SIT_NOT_ADDR	"983041" ('000F0001'X) The parameters passed by the caller are not addressable.
0	(0)	X'100000'	0	ATR_SPID_PRIM_ADDR	"1048576" ('00100000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'100001'	0	ATR_SPID_NOT_ADDR	"1048577" ('00100001'X) The parameters passed by the caller are not addressable.
0	(0)	X'110000'	0	ATR_SROI_PRIM_ADDR	"1114112" ('00110000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'110001'	0	ATR_SROI_NOT_ADDR	"1114113" ('00110001'X) The parameters passed by the caller are not addressable.
0	(0)	X'120000'	0	ATR_SSPC_PRIM_ADDR	"1179648" ('00120000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'120001'	0	ATR_SSPC_NOT_ADDR	"1179649" ('00120001'X) The parameters passed by the caller are not addressable.
0	(0)	X'130000'	0	ATR_SUSI_PRIM_ADDR	"1245184" ('00130000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'130001'	0	ATR_SUSI_NOT_ADDR	"1245185" ('00130001'X) The parameters passed by the caller are not addressable.
0	(0)	X'140000'	0	ATR_SWID_PRIM_ADDR	"1310720" ('00140000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'140001'	0	ATR_SWID_NOT_ADDR	"1310721" ('00140001'X) The parameters passed by the caller are not addressable.
0	(0)	X'150000'	0	ATR_SEIF_REMD_BAD_RC	"1376256" ('00150000'X) The CRGREMD call issued during CRGSEIF processing returned unacceptable return code
0	(0)	X'150001'	0	ATR_SEIF_SEMD_BAD_RC	"1376257" ('00150001'X) The CRGSEMD call issued during CRGSEIF processing returned unacceptable return code
'0016nnnn'X reason codes assigned to SRRCMIT processing. '0017nnnn'X reason codes assigned to ATRBACK processing. '0018nnnn'X reason codes assigned to ATRCMIT processing. '0019nnnn'X reason codes not being used.					
0	(0)	X'1A0000'	0	ATR_ABAK_PRIM_ADDR	"1703936" ('001A0000'X) The parameters passed by the caller are not in the primary address space.

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'1A0001'	0	ATR_ABAK_NOT_ADDR	"1703937" ('001A0001'X) The parameters passed by the caller are not addressable.
0	(0)	X'1B0000'	0	ATR_ACMT_PRIM_ADDR	"1769472" ('001B0000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'1B0001'	0	ATR_ACMT_NOT_ADDR	"1769473" ('001B0001'X) The parameters passed by the caller are not addressable.
0	(0)	X'1C0000'	0	ATR_AFGT_PRIM_ADDR	"1835008" ('001C0000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'1C0001'	0	ATR_AFGT_NOT_ADDR	"1835009" ('001C0001'X) The parameters passed by the caller are not addressable.
0	(0)	X'1D0000'	0	ATR_APRP_PRIM_ADDR	"1900544" ('001D0000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'1D0001'	0	ATR_APRP_NOT_ADDR	"1900545" ('001D0001'X) The parameters passed by the caller are not addressable.
0	(0)	X'1E0000'	0	ATR_ALCC_PRIM_ADDR	"1966080" ('001E0000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'1E0001'	0	ATR_ALCC_NOT_ADDR	"1966081" ('001E0001'X) The parameters passed by the caller are not addressable.
0	(0)	X'1F0000'	0	ATR_CCUR_PRIM_ADDR	"2031616" ('001F0000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'1F0001'	0	ATR_CCUR_NOT_ADDR	"2031617" ('001F0001'X) The parameters passed by the caller are not addressable.
0	(0)	X'200000'	0	ATR_SPSP_PRIM_ADDR	"2097152" ('00200000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'200001'	0	ATR_SPSP_NOT_ADDR	"2097153" ('00200001'X) The parameters passed by the caller are not addressable.
0	(0)	X'210000'	0	ATR_DPSP_PRIM_ADDR	"2162688" ('00210000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'210001'	0	ATR_DPSP_NOT_ADDR	"2162689" ('00210001'X) The parameters passed by the caller are not addressable.

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'220000'	0	ATR_ADCT_PRIM_ADDR	"2228224" ('00220000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'220001'	0	ATR_ADCT_NOT_ADDR	"2228225" ('00220001'X) The parameters passed by the caller are not addressable.
0	(0)	X'230000'	0	ATR_BEG_PRIM_ADDR	"2293760" ('00230000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'230001'	0	ATR_BEG_NOT_ADDR	"2293761" ('00230001'X) The parameters passed by the caller are not addressable.
0	(0)	X'240000'	0	ATR_END_PRIM_ADDR	"2359296" ('00240000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'240001'	0	ATR_END_NOT_ADDR	"2359297" ('00240001'X) The parameters passed by the caller are not addressable.
'0025nnnn'X reason codes not being used.					
0	(0)	X'260000'	0	ATR_SENV_PRIM_ADDR	"2490368" ('00260000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'260001'	0	ATR_SENV_NOT_ADDR	"2490369" ('00260001'X) The parameters passed by the caller are not addressable.
0	(0)	X'270000'	0	ATR_RENV_PRIM_ADDR	"2555904" ('00270000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'270001'	0	ATR_RENV_NOT_ADDR	"2555905" ('00270001'X) The parameters passed by the caller are not addressable.
0	(0)	X'280000'	0	ATR_SDTA_PRIM_ADDR	"2621440" ('00280000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'280001'	0	ATR_SDTA_NOT_ADDR	"2621441" ('00280001'X) The parameters passed by the caller are not addressable.
0	(0)	X'290000'	0	ATR_RDTA_PRIM_ADDR	"2686976" ('00290000'X) The parameters passed by the caller are not in the primary address space.
0	(0)	X'290001'	0	ATR_RDTA_NOT_ADDR	"2686977" ('00290001'X) The parameters passed by the caller are not addressable.
		Constants			
0	(0)	X'0'	0	ATR_IMMED	"0" ('00000000'X) Immediate
0	(0)	X'1'	0	ATR_DEFER_MULT	"1" ('00000001'X) Defer

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'2'	0	ATR_DEFER_SINGLE	"2" ('00000002'X) Defer Single
0	(0)	X'0'	0	ATR_UNCONDITIONAL	"0" ('00000000'X) Unconditional
0	(0)	X'1'	0	ATR_CONDITIONAL	"1" ('00000001'X) Conditional
0	(0)	X'1'	0	ATR_STATE_CHECK_EXIT	"1" ('00000001'X) STATE_CHECK exit
0	(0)	X'2'	0	ATR_PREPARE_EXIT	"2" ('00000002'X) PREPARE exit
0	(0)	X'3'	0	ATR_DISTRIBUTED_SYNCPOINT_EXIT	"3" ('00000003'X) DISTRIBUTED_ SYNCPOINT exit
0	(0)	X'4'	0	ATR_COMMIT_EXIT	"4" ('00000004'X) COMMIT exit
0	(0)	X'5'	0	ATR_BACKOUT_EXIT	"5" ('00000005'X) BACKOUT exit
0	(0)	X'6'	0	ATR_END_UR_EXIT	"6" ('00000006'X) END_UR exit
0	(0)	X'7'	0	ATR_EXIT_FAILED_EXIT	"7" ('00000007'X) EXIT_FAILED exit
0	(0)	X'8'	0	ATR_COMPLETION_EXIT	"8" ('00000008'X) COMPLETION exit
0	(0)	X'9'	0	ATR_ONLY_AGENT_EXIT	"9" ('00000009'X) ONLY_AGENT exit
0	(0)	X'A'	0	ATR_SUBORDINATE_FAILED_EXIT	"10" ('0000000A'X) SUBORDINATE FAILED exit This replaces ATR_FLIGHT_EXIT which was not being used.
0	(0)	X'B'	0	ATR_PRE_PREPARE_EXIT	"11" ('0000000B'X) PRE_PREPARE Exit
0	(0)	X'1'	0	ATR_EXIT_TYPE_SRB	"1" ('00000001'X) SRB type exit routine
0	(0)	X'2'	0	ATR_EXIT_TYPE_PC	"2" ('00000002'X) PC type exit routine
Define ATR_EXIT_TYPE_PCS as constant 4 to make it consistent with the CRG_EXIT_TYPE_PCS which is defined for registration services. Note constant 3 being used for CRG_EXIT_TYPE_BALR in registration services					
0	(0)	X'4'	0	ATR_EXIT_TYPE_PCS	"4" ('00000004'X) PC type exit routine with a sequence number
0	(0)	X'0'	0	ATR_FAIL_STANDARD	"0" ('00000000'X) Standard processing
0	(0)	X'1'	0	ATR_FAIL_FUTURE	"1" ('00000001'X) Fail future commit requests
0	(0)	X'2'	0	ATR_FAIL_FORGET	"2" ('00000002'X) Forget interest
0	(0)	X'1'	0	ATR_EXIT_RC_NOT_VALID	"1" ('00000001'X) Return Code Not Valid
0	(0)	X'2'	0	ATR_EXIT_ABENDED	"2" ('00000002'X) Exit Routine Abended without a reason code
0	(0)	X'3'	0	ATR_REDRIVE_LIMIT	"3" ('00000003'X) Redrive Limit Exceeded
0	(0)	X'4'	0	ATR_RC_INCORRECT_AFTER_POST	"4" ('00000004'X) Return Code Incorrect After Post
0	(0)	X'5'	0	ATR_MEMTERM	"5" ('00000005'X) Memory Termination

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'6'	0	ATR_FORGET_NOT_VALID	"6" ('00000006'X) Could not forget due to role
0	(0)	X'7'	0	ATR_EXIT_ABENDED_RSN	"7" ('00000007'X) Exit Routine Abended with a reason code
0	(0)	X'8'	0	ATR_ASYNC_ABEND	"8" ('00000008'X) Asynchronous ABEND while waiting for ATRPDUE: The Srb or task which requested the syncpoint was asynchronously ABENDed while RRS was waiting for an ATRPDUE from an exit or an exit returned ATRX_LATER while RRS was processing an asynchronously ABENDed syncpoint.
0	(0)	X'9'	0	ATR_ASYNC_ABEND_RSN	"9" ('00000009'X) Asynchronous ABEND while waiting for ATRPDUE: The Srb or task which requested the syncpoint was asynchronously ABENDed while RRS was waiting for an ATRPDUE from an exit or an exit returned ATRX_LATER while RRS was processing an asynchronously ABENDed syncpoint. The ABEND code was associated with a reason code.
0	(0)	X'A'	0	ATR_ASYNC_MEMTERM	"10" ('0000000A'X) The srb or task which requested the syncpoint had for an ATRPDUE from an exit or an exit returned ATRX_LATER while RRS processing a memtermed syncpoint.
0	(0)	X'B'	0	ATR_ALREADY_DEFERRED	"11" ('0000000B'X) The resource manager has already requested RRS to defer this exit for this expression of interest
0	(0)	X'C'	0	ATR_ALL_DEFERRED	"12" ('0000000C'X) The resource manager has already requested RRS to defer this exit for all of its expressions of interest
0	(0)	X'D'	0	ATR_DEFER_NOT_VALID	"13" ('0000000D'X) The resource manager has already requested RRS to defer this exit while the exit has previously completed for on of the resource manager's expression of interest
0	(0)	X'E'	0	ATR_DEFER_SRB_NOT_VALID	"14" ('0000000E'X) The resource manager requested RRS to defer the SRB exit routine. SRB exit routines cannot be deferred.
0	(0)	X'0'	0	ATR_DO_NOT_GENERATE	"0" ('00000000'X) Do not generate
0	(0)	X'1'	0	ATR_GENERATE	"1" ('00000001'X) Generate
0	(0)	X'0'	0	ATR_UNPROTECTED	"0" ('00000000'X) Unprotected
0	(0)	X'1'	0	ATR_PROTECTED	"1" ('00000001'X) Protected

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'2'	0	ATR_PROT_LOGGED	"2" ('00000002'X) Protected and logged
0	(0)	X'0'	0	ATR_DEFER	"0" ('00000000'X) unit of recovery log record may be logically deleted.
0	(0)	X'0'	0	ATR_DEFER_IMPLICIT	"0" ('00000000'X) ATRAFGT will not be issued.
0	(0)	X'1'	0	ATR_DEFER_EXPLICIT	"1" ('00000001'X) ATRAFGT will be issued
0	(0)	X'2'	0	ATR_IMMEDIATE	"2" ('00000002'X) Delete SDSRM expression of interest in unit of recovery log record and remove SDSRM interest.
0	(0)	X'0'	0	ATR_BACKOUT_OK	"0" ('00000000'X) OK
0	(0)	X'FFF'	0	ATR_DRIVE_BACKOUT_EXIT	"4095" ('00000FFF'X) Invoke BACKOUT exit
0	(0)	X'0'	0	ATR_COMMIT_OK	"0" ('00000000'X) OK
0	(0)	X'FFF'	0	ATR_DRIVE_COMMIT_EXIT	"4095" ('00000FFF'X) Invoke COMMIT exit
0	(0)	X'0'	0	ATR_PREPARE_OK	"0" ('00000000'X) OK
0	(0)	X'14'	0	ATR_PREPARE_ABSTAIN	"20" ('00000014'X) ABSTAIN
0	(0)	X'FFF'	0	ATR_DRIVE_PREPARE_EXIT	"4095" ('00000FFF'X) Invoke PREPARE exit
0	(0)	X'1'	0	ATR_NO_MORE_THAN_ONE_INTEREST	"1" ('00000001'X) No more than one
0	(0)	X'2'	0	ATR_MULTIPLE_INTERESTS	"2" ('00000002'X) Multiple
0	(0)	X'0'	0	ATR_RESPOND_CONTINUE	"0" ('00000000'X) Continue
0	(0)	X'1'	0	ATR_RESPOND_COMPLETE	"1" ('00000001'X) Complete
0	(0)	X'0'	0	ATR_CURRENT	"0" ('00000000'X) Current
0	(0)	X'1'	0	ATR_NEXT	"1" ('00000001'X) Next
0	(0)	X'0'	0	ATR_UNSET_STATE	"0" ('00000000'X) Unset
0	(0)	X'1'	0	ATR_SET_STATE	"1" ('00000001'X) Set
0	(0)	X'2'	0	ATR_RESTART_STATE	"2" ('00000002'X) Restart
0	(0)	X'3'	0	ATR_RESTART_COMPLETE_STATE	"3" ('00000003'X) Restart Complete
0	(0)	X'4'	0	ATR_RUN_STATE	"4" ('00000004'X) Run
0	(0)	X'5'	0	ATR_UNSET_IN_PROGRESS_STATE	"5" ('00000005'X) Unset
0	(0)	X'6'	0	ATR_RESET_STATE	"6" ('00000006'X) Reset
0	(0)	X'7'	0	ATR_RESTART_IN_PROGRESS_STATE	"7" ('00000007'X) Restart In Progress
0	(0)	X'0'	0	ATR_PARTICIPANT	"0" ('00000000'X) participant
0	(0)	X'1'	0	ATR_LAST_AGENT	"1" ('00000001'X) last agent participant
0	(0)	X'2'	0	ATR_DSRM	"2" ('00000002'X) distributed syncpoint resource manager
0	(0)	X'3'	0	ATR_SDSRM	"3" ('00000003'X) server distributed syncpoint resource manager
0	(0)	X'0'	0	ATR_HEURISTIC_MIX	"0" ('00000000'X) heuristic-mixed

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'1'	0	ATR_BACKOUT_REQUIRED	"1" ('00000001'X) backout required
0	(0)	X'10'	0	ATR_BREAK_TREE	"16" ('00000010'X) break tree
0	(0)	X'11'	0	ATR_DRIVE_BACKOUT	"17" ('00000011'X) drive backout
0	(0)	X'12'	0	ATR_RESYNC_IN_PROGRESS	"18" ('00000012'X) resync in progress
0	(0)	X'13'	0	ATR_NEW_LUWID_PSH_UNACCEPTABLE	"19" ('00000013'X) new LUWID Presentation Header (PSH) unacceptable
0	(0)	X'14'	0	ATR_DRIVE_COMPLETION	"20" ('00000014'X) drive completion
0	(0)	X'15'	0	ATR_SDSRM_INITIATED	"21" ('00000015'X) SDSRM initiated syncpoint
0	(0)	X'16'	0	ATR_RESOLVED_BY_INSTALLATION	"22" ('00000016'X) UR resolved by installation
0	(0)	X'17'	0	ATR_TERM_SYNCPOINT	"23" ('00000017'X) Terminating syncpoint
0	(0)	X'18'	0	ATR_COMMITTED	"24" ('00000018'X) UR was committed
0	(0)	X'20'	0	ATR_IMMEDIATE_BACKOUT	"32" ('00000020'X) Immediate backout
0	(0)	X'21'	0	ATR_APPL_COMPLETE	"33" ('00000021'X) Application Complete
0	(0)	X'22'	0	ATR_RESET_APPL_COMPLETE	"34" ('00000022'X) Reset Application Complete
0	(0)	X'23'	0	ATR_SI_LOCAL_MODE	"35" ('00000023'X) Local Transaction Mode
0	(0)	X'24'	0	ATR_SI_GLOBAL_MODE	"36" ('00000024'X) Global Transaction Mode
0	(0)	X'0'	0	ATR_SIDE_VALUE_NOT_SET	"0" ('00000000'X) Side value not set
0	(0)	X'1'	0	ATR_SIDE_VALUE_SET	"1" ('00000001'X) Side value set
0	(0)	X'0'	0	ATR_PRESUMED_NOTHING	"0" ('00000000'X) presumed nothing
0	(0)	X'1'	0	ATR_PRESUMED_ABORT	"1" ('00000001'X) presumed abort
0	(0)	X'0'	0	ATR_NORMAL_INTEREST	"0" ('00000000'X) Normal expression of interest
0	(0)	X'1'	0	ATR_RESTART_INTEREST	"1" ('00000001'X) Restart expression of interest
0	(0)	X'0'	0	ATR_IN_RESET	"0" ('00000000'X) In_Reset
0	(0)	X'1'	0	ATR_IN_FLIGHT	"1" ('00000001'X) In_Flight
0	(0)	X'2'	0	ATR_IN_STATE_CHECK	"2" ('00000002'X) In_State_Check
0	(0)	X'3'	0	ATR_IN_PREPARE	"3" ('00000003'X) In_Prepare
0	(0)	X'4'	0	ATR_IN_DOUBT	"4" ('00000004'X) In_Doubt
0	(0)	X'5'	0	ATR_IN_COMMIT	"5" ('00000005'X) In_Commit
0	(0)	X'6'	0	ATR_IN_BACKOUT	"6" ('00000006'X) In_Backout
0	(0)	X'7'	0	ATR_IN_END	"7" ('00000007'X) In_End
0	(0)	X'8'	0	ATR_IN_ONLY_AGENT	"8" ('00000008'X) In_Only_Agent
0	(0)	X'9'	0	ATR_IN_COMPLETION	"9" ('00000009'X) In_Completion
0	(0)	X'A'	0	ATR_FORGOTTEN	"10" ('0000000A'X) Forgotten
0	(0)	X'B'	0	ATR_IN_FORGET	"11" ('0000000B'X) In_Forget

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'C'	0	ATR_PREFLIGHT	"12" ('0000000C'X) Preflight
0	(0)	X'A'	0	ATR_MIN_LUWID_LENGTH	"10" ('0000000A'X) Minimum LUWID length
0	(0)	X'C'	0	ATR_MIN_EID_LENGTH	"12" ('0000000C'X) Minimum EID length
0	(0)	X'D'	0	ATR_MIN_XID_LENGTH	"13" ('0000000D'X) Minimum XID length
0	(0)	X'1A'	0	ATR_MAX_LUWID_LENGTH	"26" ('0000001A'X) Maximum LUWID length
0	(0)	X'2C'	0	ATR_MAX_EID_LENGTH	"44" ('0000002C'X) Maximum EID length
0	(0)	X'8C'	0	ATR_MAX_XID_LENGTH	"140" ('0000008C'X) Maximum XID length
0	(0)	X'0'	0	ATR_LUWID	"0" ('00000000'X) LU 6.2 logical unit of work ID
0	(0)	X'1'	0	ATR_EID	"1" ('00000001'X) Enterprise identifier
0	(0)	X'2'	0	ATR_XID	"2" ('00000002'X) X/Open identifier
0	(0)	X'1'	0	ATRXVERSION1	"1" ('00000001'X) Version number
0	(0)	X'40'	0	ATR_MAX_RM_LOGNAME_LENGTH	"64" ('00000040'X) Maximum length of an RM logname
0	(0)	X'1000'	0	ATR_MAX_PDATA_LENGTH	"4096" ('00001000'X) Maximum persistent data length
0	(0)	X'2000'	0	ATR_8K_RM_METADATA_LENGTH	"8192" ('00002000'X) The length of 8K worth of data
0	(0)	X'2000'	0	ATR_MAX_RM_METADATA_LENGTH	"8192" ('00002000'X) Maximum length of the RM MetaData
0	(0)	X'0'	0	ATR_STANDARD_STATES	"0" ('00000000'X) Standard states
0	(0)	X'1'	0	ATR_EXTENDED_STATES	"1" ('00000001'X) Extended states
0	(0)	X'0'	0	ATR_NO_FAMILY	"0" ('00000000'X) UR is not to be cascaded
0	(0)	X'1'	0	ATR_CASCADED	"1" ('00000001'X) UR is a cascaded-UR
0	(0)	X'0'	0	ATR_NOT_SET	"0" ('00000000'X) Remove setting
0	(0)	X'1'	0	ATR_COMMIT_ACTION	"1" ('00000001'X) Commit any UR's
0	(0)	X'2'	0	ATR_ROLLBACK_ACTION	"2" ('00000002'X) Rollback any UR's
0	(0)	X'0'	0	ATR_ENVIRONMENT_NOT_SET	"0" ('00000000'X) Environment was not set
0	(0)	X'1'	0	ATR_GLOBAL_MODE	"1" ('00000001'X) Unit of recovery=Global
0	(0)	X'2'	0	ATR_LOCAL_MODE	"2" ('00000002'X) Unit of recovery=Local
0	(0)	X'3'	0	ATR_HYBRID_GLOBAL_MODE	"3" ('00000003'X) Unit of recovery=Hybrid
0	(0)	X'1'	0	ATR_ADDRESS_SPACE_SCOPE	"1" ('00000001'X) address space env scope
0	(0)	X'2'	0	ATR_CONTEXT_SCOPE	"2" ('00000002'X) context env scope
0	(0)	X'3'	0	ATR_DEFAULT_SCOPE	"3" ('00000003'X) UR env scope

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'1'	0	ATR_TRAN_MODE_SETTING	"1" ('00000001'X) transaction mode
0	(0)	X'2'	0	ATR_NORM_CTX_END_SETTING	"2" ('00000002'X) end context action
0	(0)	X'1'	0	ATR_UNPROTECTED_SETTING	"1" ('00000001'X) setting is not protected
0	(0)	X'2'	0	ATR_PROTECTED_SETTING	"2" ('00000002'X) Setting is protected
Mask constants for ATRRUSF ATRRUSF returns information about the UR by setting selected bits in a 4-byte field. Some bits are not used. Here is a map of what bits are used. 0000 0000 0000 0mmm 0000 000r 0ccc 0www Legend: 0 = Bit is not used. m = Used to provide info about the UR's mode r = Used to say whether UR_State = in_reset c = Used to say how many interests exist w = Used to say who must coordinate					
0	(0)	X'1'	0	ATR_NO_INTERESTS_MASK	"1" ('00000001'X) No interests in the UR
0	(0)	X'2'	0	ATR_RM_COORD_OK_MASK	"2" ('00000002'X) One interests in the UR
0	(0)	X'4'	0	ATR_RRS_MUST_COORD_MASK	"4" ('00000004'X) More than one interest in the UR
Bits used to say how many interests exist.					
0	(0)	X'10'	0	ATR_ZERO_INTEREST_COUNT_MASK	"16" ('00000010'X) For Atrrusf1 callers. There are no interests in the current UR. This information is returned if the caller specifies the ATR_INTEREST_COUNT_MASK in the side_information_options.
0	(0)	X'20'	0	ATR_ONE_INTEREST_COUNT_MASK	"32" ('00000020'X) For Atrrusf1 callers. Only one resource manager has expressed only one interest in the UR. This information is returned if the caller specifies the ATR_INTEREST_COUNT_MASK in the side_information_options.
0	(0)	X'40'	0	ATR_MULTIPLE_INTEREST_COUNT_MASK	"64" ('00000040'X) For Atrrusf1 callers. There are two or more interests in the UR: Either 1 RM has multiple interests, or multiple RMs have one or more interests. This information is returned if the caller specifies the ATR_INTEREST_COUNT_MASK in the side_information_options.

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'200'	0	ATR_UR_CASCADED_MASK	"512" ('00000200'X) For Atrrusf1/Atr4rusf callers. When set, the UR is a cascaded UR, regardless if the UR is a parent or a child UR, or if the transaction is locally or sysplex cascaded. If this bit is set, the ATR_RRS_MUST_COORD_MASK indicator will also be set to indicate RRS must coordinate the syncpoint. This information is returned if the caller specifies the ATR_CASCADED_TRANSACTION_MASK in the side_information_options.
Bit used to say whether UR_State = in_reset					
0	(0)	X'100'	0	ATR_UR_STATE_IN_RESET_MASK	"256" ('00000100'X) When set, the UR is in In-Reset state. Otherwise, the state is In-Flight or beyond
Bits used to provide info about mode					
0	(0)	X'10000'	0	ATR_GLOBAL_MODE_MASK	"65536" ('00010000'X) UR transaction mode is Global
0	(0)	X'20000'	0	ATR_LOCAL_MODE_MASK	"131072" ('00020000'X) UR transaction mode is Local
0	(0)	X'40000'	0	ATR_HYBRID_GLOBAL_MODE_MASK	"262144" ('00040000'X) UR transaction mode is Global, however resource managers may exhibit proprietary transactional behaviors.
0	(0)	X'1'	0	ATR_INTEREST_COUNT_MASK	"1" ('00000001'X) For Atrrusf1 callers. An RM uses this mask to set input parameter side_information_options. When side_information_options = 1, it means RRS should tell the caller if there are 0 interests, 1 interest, or more than 1 interest in the UR associated with the input context.
0	(0)	X'2'	0	ATR_CASCADED_TRANSACTION_MASK	"2" ('00000002'X) For Atrrusf1/Atr4rusf callers on systems where the ATRPre_PrepareExitSupport flag is on in ATRRINST. A resource manager specifies this mask to request RRS to return the cascaded transaction information for the UR associated with the specified context.
Mask constants for ATRADCT1					

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'0'	0	ATR_STANDARD_COMMIT_MASK	"0" ('00000000'X) The SDSRM wants RRS to perform a normal delegated commit processing (NOT remove its interest)
0	(0)	X'0'	0	ATR_REMOVE_SDSRM_INTEREST_MASK	"268435456" ('10000000'X) The SDSRM wants RRS to remove its interest in the UR and let other resource manager(s) take responsibility for making the commit or backout decision.
Mask constants for ATREINT5					
0	(0)	X'0'	0	ATR_UNCOND_INT_MASK	"0" ('00000000'x) The resource manager is expressing unconditional interest in the UR. RRS is to create a new interest, even if the resource already has an interest in the UR.
0	(0)	X'0'	0	ATR_CONDITIONAL_INT_MASK	"268435456" ('10000000'X) The resource manager is expressing conditional interest in the UR. RRS is not to create a new interest if the resource manager already has an interest in the UR. Instead, RRS should return information about the resource managers existing interest. If the resource manager has more than one interest, the information returned will pertain to a random interest.
0	(0)	X'0'	0	ATR_UNPROT_INT_MASK	"0" ('00000000'X) The resource manager is expressing an unprotected interest in the UR.
0	(0)	X'0'	0	ATR_PROTECTED_INT_MASK	"16777216" ('01000000'X) The resource manager is expressing protected interest in the UR.
0	(0)	X'0'	0	ATR_STANDARD_FAIL_MASK	"0" ('00000000'X) The resource manager wants RRS to do its standard processing if the resource manager fails.
0	(0)	X'100000'	0	ATR_REMOVE_INT_ON_FAIL_MASK	"1048576" ('00100000'X) The resource manager wants RRS to remove its interest in the UR if the resource manager fails. One may only be specified if the resource manager is expressing unprotected interest.
0	(0)	X'0'	0	ATR_IGNORE_SUBORDINATE_FAILURE_MASK	"0" ('00000000'X) The resource manager does not want RRS to drive its subordinate failed exit.

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'200000'	0	ATR_NOTIFY_SUBORDINATE_FAILURE_MASK	"2097152" ('00200000'X) The resource manager wants RRS to drive its subordinate failed exit.
0	(0)	X'0'	0	ATR_COMMIT_NO_PRIORITY	"0" ('00000000'X) The resource manager does not have a tier 1 priority commit exit.
0	(0)	X'20000'	0	ATR_COMMIT_TIER_ONE_PRIORITY	"131072" ('00020000'X) The resource manager wants its commit exit driven before any SRB mode exits and tier 2 (normal) priority commit exits.
0	(0)	X'0'	0	ATR_PRESUME_NOTHING_MASK	"0" ('00000000'X) The resource manager wants RRS to treat this expression of interest as needing presume nothing logging.
0	(0)	X'10000'	0	ATR_PRESUME_ABORT_MASK	"65536" ('00010000'X) The resource manager wants RRS to treat this expression of interest as needing presume abort logging.
0	(0)	X'0'	0	ATR_CREATE_STANDARD_UR_MASK	"0" ('00000000'X) RRS is not to create the UR as a cascaded UR.
0	(0)	X'1000'	0	ATR_CREATE_CASCADED_UR_MASK	"4096" ('00001000'X) RRS is to create the UR as a cascaded UR. parent_ur_token specifies the UR token of the parent of the new cascaded UR. One may only be specified if the UR in which interest is being expressed is in-reset.
0	(0)	X'0'	0	ATR_DONT_END_CONTEXT_MASK	"0" ('00000000'X) RRS will not end the work context associated with the UR to which interest is being expressed when the UR completes.
0	(0)	X'100'	0	ATR_END_CONTEXT_MASK	"256" ('00000100'X) RRS will end the work context associated with the UR to which interest is being expressed when the UR completes. It is strongly recommended that this option only be used by the resource manager which owns the work context.
0	(0)	X'0'	0	ATR_STANDARD_XID_MASK	"0" ('00000000'X) RRS will do its standard XID processing.

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'10'	0	ATR_USE_BQUAL_MASK	"16" ('00000010'X) The expression of interest must be in a new cascaded UR and an XID must be specified. RRS will assign the new UR an XID with the same FormatId and GTRID as its parent and a BQUAL equal to the BQUAL of the XID specified. RRS will only validate and use the BQUAL and BQUAL length fields in the specified XID.
0	(0)	X'8'	0	ATR_USE_FORMATID_MASK	"8" ('00000008'X) The expression of interest must be in a new cascaded UR and an XID must be specified. RRS will assign the new UR an XID with the same GTRID as its parent and a FormatID equal to the FormatID of the XID specified. RRS will only validate and use the FormatID field in the specified XID. !
		Return Codes			
0	(0)	X'0'	0	ATRX_OK	"0" ('00000000'X) Proceed with Commit.
0	(0)	X'4'	0	ATRX_OK_OUTCOME_PENDING	"4" ('00000004'X) The resource manager has completed the Commit request. However, all updates are not necessarily complete.
0	(0)	X'8'	0	ATRX_BACKOUT	"8" ('00000008'X) Back out the Commit request.
0	(0)	X'C'	0	ATRX_BACKOUT_OUTCOME_PENDING	"12" ('0000000C'X) Back out the Commit request. However, all updates are not necessarily complete.
0	(0)	X'10'	0	ATRX_FORGET	"16" ('00000010'X) Proceed with Commit. The resource manager no longer needs interest in this UR.
0	(0)	X'14'	0	ATRX_ABSTAIN	"20" ('00000014'X) Concur with commit. The resource manager does not want to influence the overall prepare vote and has no resources to update. (If the resource manager provides an END_UR exit, then RRS/MVS notifies the resource manager if the local prepare vote is FORGET.)

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'1C'	0	ATRX_REDRIVE	"28" ('0000001C'X) Redrive the STATE_CHECK exits. (Intended for a resource manager which changes the state of a resource (e.g. a conversation state) which may affect other resource managers.)
0	(0)	X'20'	0	ATRX_STATE_INCORRECT	"32" ('00000020'X) Reject the Commit. The state is incorrect. (Note: This does not mean that Backout should be performed, but rather that the resource manager is not ready to perform commit processing yet.)
0	(0)	X'24'	0	ATRX_HC	"36" ('00000024'X) Heuristic commit.
0	(0)	X'28'	0	ATRX_HR	"40" ('00000028'X) Heuristic reset.
0	(0)	X'2C'	0	ATRX_HM	"44" ('0000002C'X) Heuristic-mixed.
0	(0)	X'30'	0	ATRX_LATER	"48" ('00000030'X) Post RRS/MVS later.
0	(0)	X'34'	0	ATRX_LATER_CONTINUE	"52" ('00000034'X) Post RRS/MVS later., but the Application Program (or Transaction Program) can continue processing. :rev refid=generic. If :hp2.drive completion:ehp2. has been set for the &ur via the &atrsusi. service :erev refid=generic. :rev refid=trpc. or if an resource manager has taken the server distributed syncpoint resource manager role for this unit of recovery via ATRSSPC :erev refid=trpc. this return code will be treated as if ATRX_LATER was specified instead of ATRX_LATER_CONTINUE.
0	(0)	X'38'	0	ATRX_HM_BACKOUT	"56" ('00000038'X) Heuristic-mixed backout.
0	(0)	X'3C'	0	ATRX_HM_COMMIT	"60" ('0000003C'X) Heuristic-mixed commit.
0	(0)	X'40'	0	ATRX_DEFER	"64" ('00000040'X) The resource manager request RRS to defer the exit processing for this expression of interest.
0	(0)	X'404'	0	ATRX_UNSET_RM	"1028" ('00000404'X) The resource manager has completed its EXIT_FAILED processing and has determined that it should be unset.
0	(0)	X'0'	0	ATR_OK	"0" ('00000000'X) Successful completion.
0	(0)	X'4'	0	ATR_NO_MORE_INCOMPLETE_INTERESTS	

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"4" ('00000004'X) There are no more incomplete expressions of interest for this resource manager.
0	(0)	X'5'	0	ATR_PARTIAL_PERSISTENT_DATA	"5" ('00000005'X) The persistent_interest_buffer_length value is less than the actual length of the persistent interest data. RRS/MVS fills the buffer with as much data as fits and returns the actual length in persistent_interest_data_length.
0	(0)	X'6'	0	ATR_RM_LOGNAME_NOT_SET	"6" ('00000006'X) The resource manager has not set a resource manager logname.
0	(0)	X'7'	0	ATR_REQUESTED_WID_UNAVAILABLE	"7" ('00000007'X) The requested work identifier has not yet been set or generated and the generate_option indicated a new work identifier should not be generated. RRS/MVS returns hex zeroes in the uwid_data field.
0	(0)	X'8'	0	ATR_FORGET	"8" ('00000008'X) The prepare operation completed successfully. The collective prepare vote allows the unit of recovery to be completed and all resource managers voted to abstain or forget. The unit of recovery is now In_Forget.
0	(0)	X'8'	0	ATR_RM_ALREADY_HAS_INTEREST	"8" ('00000008'X) The resource manager already has an expression of interest in this UR.
0	(0)	X'9'	0	ATR_PARTIAL_RM_LOGNAME	"9" ('00000009'X) The rm_logname_buffer_len value is less that the actual length of the RM logname. RRS/MVS fills the buffer with as much data as fits and returns the actual length in rm_logname_length.
0	(0)	X'A'	0	ATR_PARTIAL_UWID_DATA	"10" ('0000000A'X) The uwid_buffer_len value is less than the actual length of the uwid_data. RRS/MVS fills the buffer with as much data as fits and returns the actual length in uwid_len.

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'B'	0	ATR_PARTIAL_RM_METADATA	"11" ('0000000B'X) The RM_MetaData_Buffer_Len value is less than the actual length of the resource manager's metadata. RRS/MVS fills the buffer with as much data as fits and returns the actual length in RM_MetaData_Len.
0	(0)	X'10'	0	ATR_OK_NO_CONTEXT	"16" ('00000010'X) The operation completed successfully, but there is no longer a context associated with the unit of recovery
0	(0)	X'11'	0	ATR_FORGET_NOT_REQUIRED	"17" ('00000011'X) The forget operation is not valid since the log option was not set to ATR_Defer_Explicit
0	(0)	X'65'	0	ATR_COMMITTED_OUTCOME_PENDING	"101" ('00000065'X) The commit operation completed. The RRS/MVS decision was to advance to a consistent state. However, the state of one or more of the protected resources is not known.
0	(0)	X'66'	0	ATR_COMMITTED_OUTCOME_MIXED	"102" ('00000066'X) The commit operation completed. The RRS/MVS decision was to advance to a consistent state. However, one or more of the protected resources has been returned to the previous consistent state.
0	(0)	X'C8'	0	ATR_PROGRAM_STATE_CHECK	"200" ('000000C8'X) The commit operation failed. The consistency state of the protected resources has not been altered. This return code indicates one of the following conditions has occurred: A protected resource, specifically a Communications Interface conversation, is not in Send, Send Pending, Defer Receive, Defer Allocate, Sync_Point, Sync_Point Send, or Sync_Point Deallocate state. A protected resource, specifically a local resource, is not in the proper state for a Commit.
0	(0)	X'101'	0	ATR_ASCMODE_INV	"257" ('00000101'X) The caller is in an unsupported ASC Mode.
0	(0)	X'103'	0	ATR_INTERRUPT_STATUS_INV	"259" ('00000103'X) The caller is disabled.
0	(0)	X'104'	0	ATR_MODE_INV	"260" ('00000104'X) The caller is not in task mode.

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'105'	0	ATR_LOCKS_HELD	"261" ('00000105'X) The caller is holding one or more locks.
0	(0)	X'107'	0	ATR_UNSUPPORTED_RELEASE	"263" ('00000107'X) The release of MVS does not support this service. The service stub has been linked on a system that does not support RRS/MVS.
0	(0)	X'109'	0	ATR_ENVIRONMENT_INV	"265" ('00000109'X) The call is performed from a suspend exit or from a PURGEDQed SRB
0	(0)	X'12C'	0	ATR_BACKED_OUT	"300" ('0000012C'X) The commit operation failed. All protected resources have been returned to the previous consistent state.
0	(0)	X'12D'	0	ATR_BACKED_OUT_OUTCOME_PENDING	"301" ('0000012D'X) The commit operation failed. The RRS/MVS decision was to return to the previous consistent state. However, the state of one or more of the protected resources is not known.
0	(0)	X'12E'	0	ATR_BACKED_OUT_OUTCOME_MIXED	"302" ('0000012E'X) The commit operation failed. The RRS/MVS decision was to return to the previous consistent state. However, one or more of the protected resources has advanced to a new synchronization state.
0	(0)	X'301'	0	ATR_RM_TOKEN_INV	"769" ('00000301'X) The resource_manager_token supplied is not a valid resource manager token.
0	(0)	X'361'	0	ATR_CONTEXT_TOKEN_INV	"865" ('00000361'X) The context token specified does not represent a valid context.
0	(0)	X'362'	0	ATR_STOKEN_INV	"866" ('00000362'X) The stoken parameter specified is incorrect. The caller is unauthorized and the stoken does not address the home address space.
0	(0)	X'363'	0	ATR_TRAN_MODE_INV	"867" ('00000363'X) The transaction mode option specified in the call was not valid.
0	(0)	X'364'	0	ATR_ENV_SETTING_ID_INV	"868" ('00000364'X) The caller specifiec an environment setting id parameter that is not valid.
0	(0)	X'365'	0	ATR_ENV_SETTING_INV	"869" ('00000365'X) The caller specifiec an environment setting parameter that is not valid.

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'366'	0	ATR_SCOPE_INV	"870" ('00000366'X) The identifier for the scope parameter specified in the call is not valid. The system rejects the service call.
0	(0)	X'36A'	0	ATR_DU_TERMINATING	"874" ('0000036A'X) The dispatchable unit associated with or to be associated with the specified context is terminating.
0	(0)	X'36B'	0	ATR_ACTION_INV	"875" ('0000036B'X) The value specified for the ACTION parameter is invalid.
0	(0)	X'36C'	0	ATR_PROTLEVEL_INV	"876" ('0000036C'X) Program error. The value specified in the environment settings protection parameter is not valid. The system rejects the service call.
0	(0)	X'370'	0	ATR_URI_TOKEN_INV	"880" ('00000370'X) The URI_TOKEN specified does not represent a valid expression of interest. This may occur after RRS/MVS has terminated and restarted.
0	(0)	X'371'	0	ATR_INTEREST_TYPE_INV	"881" ('00000371'X) The specified interest_type value is not valid for this service.
0	(0)	X'372'	0	ATR_FAILURE_ACTION_INV	"882" ('00000372'X) The specified failure_action value is not valid.
0	(0)	X'373'	0	ATR_PREPARE_CODE_INV	"883" ('00000373'X) The specified prepare_exit_code value is not valid.
0	(0)	X'374'	0	ATR_COMMIT_CODE_INV	"884" ('00000374'X) The specified commit_exit_code value is not valid.
0	(0)	X'375'	0	ATR_TWO_PHASE_PROTOCOL_INV	"885" ('00000375'X) The specified two phase protocol value is not valid.
0	(0)	X'376'	0	ATR_PERSISTENT_DATA_LEN_INV	"886" ('00000376'X) The specified persistent interest data length is not valid.
0	(0)	X'377'	0	ATR_UWID_LEN_INV	"887" ('00000377'X) The specified uwid_len is not valid.
0	(0)	X'378'	0	ATR_EXIT_NUMBER_INV	"888" ('00000378'X) The exit number specified is not valid.
0	(0)	X'379'	0	ATR_COMP_CODE_INV	"889" ('00000379'X) The completion code specified is not valid for the exit routine being posted.
0	(0)	X'37A'	0	ATR_RM_LOGNAME_INV	"890" ('0000037A'X) The resource manager logname specified is not valid.

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'37B'	0	ATR_RM_LOGNAME_LEN_INV	"891" ('0000037B'X) The resource manager logname length specified is not valid.
0	(0)	X'37C'	0	ATR_RM_LOGNAME_BUF_LEN_INV	"892" ('0000037C'X) The specified rm_logname_buffer_len is not valid.
0	(0)	X'37D'	0	ATR_PERSIS_DATA_BUF_LEN_INV	"893" ('0000037D'X) The specified persistent_interest_buffer_length is not valid.
0	(0)	X'37E'	0	ATR_RETRIEVE_OPTION_INV	"894" ('0000037E'X) The specified retrieve_option is not valid.
0	(0)	X'37F'	0	ATR_SET_OPTION_INV	"895" ('0000037F'X) The specified set_option is not valid.
0	(0)	X'380'	0	ATR_UWID_TYPE_INV	"896" ('00000380'X) The specified uwid_type is not valid.
0	(0)	X'381'	0	ATR_LATER_INV	"897" ('00000381'X) The specified completion_code (ATRX_LATER or ATRX_LATER_CONTINUE) is not allowed on this service.
0	(0)	X'382'	0	ATR_UWID_BUF_LEN_INV	"898" ('00000382'X) The specified uwid_buffer_len is not valid.
0	(0)	X'383'	0	ATR_SIDE_INFO_ID_INV	"899" ('00000383'X) A unit of recovery side information id in the side_info_id_array is not valid.
0	(0)	X'384'	0	ATR_RESPONSE_CODE_INV	"900" ('00000384'X) The specified response_code value is not valid.
0	(0)	X'385'	0	ATR_RESPONSE_CODE_INCORRECT	"901" ('00000385'X) The specified response_code value is not valid for this UR state.
0	(0)	X'386'	0	ATR_FAILURE_ACTION_INCORRECT	"902" ('00000386'X) The specified failure_action value is not valid for the specified interest type.
0	(0)	X'387'	0	ATR_PREPARE_CODE_INCORRECT	"903" ('00000387'X) The specified prepare_exit_code value is not valid when the UR state is In_Prepare.
0	(0)	X'388'	0	ATR_GENERATE_OPTION_INV	"904" ('00000388'X) The specified generate_option is not valid.
0	(0)	X'389'	0	ATR_PERSISTENT_DATA_NOT_ALLOWED	

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"905" ('00000389'X) The resource manager specified a persistent interest data length greater than zero for an unprotected expression of interest.
0	(0)	X'38A'	0	ATR_RM_METADATA_LEN_INV	"906" ('0000038A'X) The resource manager metadata length specified is not valid.
0	(0)	X'38B'	0	ATR_RM_METADATA_BUFFER_LEN_INV	"907" ('0000038B'X) The length of the resource manager metadata buffer is not valid.
0	(0)	X'38C'	0	ATR_RM_METADATA_LOG_UNAVAILABLE	"908" ('0000038C'X) A MetaData callable service failed since the resource manager MetaData log stream is not available. Check SYSLOG for messages ATR132I or ATR172E that will further explain why the log is unavailable.
0	(0)	X'38D'	0	ATR_RM_8K_METADATA_NOT_ALLOWED	"909" ('0000038D'X) The resource manager did not set the ATR_8K_RM_METADATA_REQUESTED flag on CRGSEIF so the resource manager cannot set or retrieve 8K Meta Data.
0	(0)	X'38E'	0	ATR_RM_METADATA_MISSING_DATA	"910" ('0000038E'X) When processing the RM Meta Data log stream, records were encountered that indicate there was a loss of data or a gap in the log stream. If Meta Data was stored for the RM, it cannot be found. Check SYSLOG for messages ATR202D and ATR212I that will further explain the error.
0	(0)	X'390'	0	ATR_ROLE_INV	"912" ('00000390'X) The specified role is not valid.
0	(0)	X'391'	0	ATR_MULTIPLE_INTEREST_OPTION_INV	"913" ('00000391'X) The specified multiple_interest_option is not valid.
0	(0)	X'392'	0	ATR_ELEMENT_COUNT_INV	"914" ('00000392'X) The specified element_count is not valid.
0	(0)	X'393'	0	ATR_LUWID_DATA_INV	"915" ('00000393'X) The LUWID specified in uwid_data is not valid. The first byte of this data must contain a valid length of an LU name (a value from 1 to 17).

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'394'	0	ATR_BACKOUT_CODE_INV	"916" ('00000394'X) The specified backout_exit_code value is not valid.
0	(0)	X'395'	0	ATR_LOG_OPT_INV	"917" ('00000395'X) The specified log_option value is not valid.
0	(0)	X'396'	0	ATR_FLIGHT_OPTION_INV	"918" ('00000396'X) The specified flight_option is not valid.
0	(0)	X'397'	0	ATR_XID_DATA_INV	"919" ('00000397'X) The xid specified in uwid_data is not valid. The computed length of the XID does not match the specified length passed via the uwid_len parameter
0	(0)	X'398'	0	ATR_STATES_OPTION_INV	"920" ('00000398'X) The specified states_option is not valid.
0	(0)	X'399'	0	ATR_UR_FAMILY_OPTION_INV	"921" ('00000399'X) The UR family option specified in the call is not valid
0	(0)	X'39A'	0	ATR_PARENT_UR_TOKEN_INV	"922" ('0000039A'X) The UR token specified in the parent_ur_token parameter is not valid
0	(0)	X'39B'	0	ATR_CHILD_CONTEXT_TOKEN_INV	"923" ('0000039B'X) The context token specified in the child_context_ token parameter is not valid
0	(0)	X'39C'	0	ATR_XID_LENGTH_INV	"924" ('0000039C'X) The XID length specified in the call is not valid
0	(0)	X'39D'	0	ATR_XID_INV	"925" ('0000039D'X) The XID specified in the call is not valid
0	(0)	X'39E'	0	ATR_PARENT_DU_TERMINATING	"926" ('0000039E'X) The task associated with the UR specified by the parent_ur_token parameter is ending
0	(0)	X'39F'	0	ATR_CHILD_DU_TERMINATING	"927" ('0000039F'X) The task associated with the UR specified by the parent_ur_token parameter is ending
0	(0)	X'3A0'	0	ATR_SAME_CURRENT_CONTEXT_INV	"928" ('000003A0'X) The UR token specified in the parent_ur_token parameter and the context token specified in the child_context_parameter are zero
0	(0)	X'3A1'	0	ATR_SAME_PARENT_CONTEXT_INV	

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"929" ('000003A1'X) The UR token specified in the parent_ur_token parameter is 0. The current context associated with the parent UR and the context represented by child_context_ token is the same
0	(0)	X'3A2'	0	ATR_SAME_CHILD_CONTEXT_INV	"930" ('000003A2'X) The child context token specified in the child_context_token parameter is 0. The current context associated with the child and the context represented by the parent_ur_token is the same
0	(0)	X'3A3'	0	ATR_UR_TOKEN_INV	"931" ('000003A3'X) The UR token specified in the call does not identify a valid UR
0	(0)	X'3A4'	0	ATR_PARENT_AUTH_FAILURE	"932" ('000003A4'X) The caller, which is PKM 8-15 problem state, specified a parent UR token of a UR associated with a context which does not belong to a PKM 8-15 problem state resource manager registered in the home address space and which is not a native context in the home address space.
0	(0)	X'3A5'	0	ATR_CHILD_AUTH_FAILURE	"933" ('000003A5'X) The caller, which is PKM 8-15 problem state, specified a child context token of a context which does not belong to a PKM 8-15 problem state resource manager registered in the home address space and which is not a native context in the home address space.
0	(0)	X'3A6'	0	ATR_PET_INV	"934" ('000003A6'X) The PET specified in the call is not valid.
0	(0)	X'3A7'	0	ATR_PET_OUTDATED	"935" ('000003A7'X) The PET specified in the call is outdated.
0	(0)	X'3A8'	0	ATR_PET_AUTH_FAILURE	"936" ('000003A8'X) An unauthorized caller tried to use an authorized PET
0	(0)	X'3A9'	0	ATR_PET_SPACE_FAILURE	"937" ('000003A9'X) An unauthorized caller tried to use a PET belonging to a different address space
0	(0)	X'3AA'	0	ATR_PET_NOT_ASSOCIATED	"938" ('000003AA'X) The specified PET does not represent a Pause Element associated with the specified UR

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'3AB'	0	ATR_AUTH_FAILURE	"939" ('000003AB'X) The caller, which is PKM 8-15 problem state, specified a UR token of a UR associated with a context which does not belong to a PKM 8-15 problem state resource manager registered in the home address space and which is not a native context in the home address space.
0	(0)	X'3AC'	0	ATR_INTEREST_OPTIONS_INV	"940" ('000003AC'X) (940) The interest-options value specified in the call is not valid. Either reserved bits were nonzero or an unacceptable selection of options and parameters were specified.
0	(0)	X'3AD'	0	ATR_CREATE_OPTIONS_INV	"941" ('000003AD'X) (940) The create-options value specified in the call is not valid. Either reserved bits were nonzero or an unacceptable selection of options and parameters were specified.
0	(0)	X'3AE'	0	ATR_COMMIT_OPTIONS_INV	"942" ('000003AE'X) The specified commit_options value is not valid. Either reserved bits were nonzero or an unacceptable selection of options and parameters were specified.
0	(0)	X'3AF'	0	ATR_SIDE_INFORMATION_OPTIONS_INVALID	"943" ('000003AF'X) For Atrrusf1 callers. The specified side_information_options value is not valid. Either reserved bits were nonzero or an unacceptable selection of options and parameters were specified.
0	(0)	X'3B0'	0	ATR_XID_EXISTS	"944" ('000003B0'X) Program error. The resource manager specified an XID when the UR already had an XID. The system rejects the service call. URI_Token.
0	(0)	X'3B1'	0	ATR_SUBORDINATE_FAILED_EXIT_NOT_DEFINED	"945" ('000003B1'X) Program error. The resource manager specified a subordinate failed exit be driven, but did not provide the exit. The system rejects the service call.
0	(0)	X'3B2'	0	ATR_SUBORDINATE_FAILED_EXIT_INV	

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"946" ('000003B2'X) Program error. The resource manager specified a subordinate failed exit be driven, but is expressing interest in a cascaded UR. The system rejects the service call.
0	(0)	X'3B3'	0	ATR_COMMIT_TIER_ONE_SRB_INV	
					"947" ('000003B3'X) Program error. The resource manager specified a Tier 1 request for an SRB Commit Exit routine. The system rejects the service call.
0	(0)	X'3B4'	0	ATR_AUTH_FAILURE_RETRIEVE_OPTION	
					"948" ('000003B4'X) The caller, which is PKM 8-15 problem state, specified a retrieve_option not equal to ATR_CURRENT. Only ATR_CURRENT can be specified when the caller is PKM 8-15 problem state. To use other retrieve_option's the caller must be PKM allowing key 0-7, or supervisor state.
0	(0)	X'3B5'	0	ATR_AUTH_FAILURE_GENERATE_OPTION	
					"949" ('000003B5'X) The caller, which is PKM 8-15 problem state, specified a generate_option not equal to ATR_DO_NOT_GENERATE. Only ATR_DO_NOT_GENERATE can be specified when the caller is PKM 8-15 problem state. To use other retrieve_option's the caller must be PKM allowing key 0-7, or supervisor state.
0	(0)	X'3B7'	0	ATR_COMMIT_TIER_ONE_MISMATCH	
					"951" ('000003B7'X) Program error. The resource manager expressed interest conditionally and an expression of interest already exists. The Tier level specified by the RM does not match the tier level already set in that interest. The system rejects the service call.
0	(0)	X'701'	0	ATR_RM_STATE_ERROR	"1793" ('00000701'X) The Resource Manager is not in a valid state to complete the request.
0	(0)	X'702'	0	ATR_RM_EXITS_UNSET	"1794" ('00000702'X) RRS/MVS has unset the RRS/MVS exit routines for this resource manager.
0	(0)	X'730'	0	ATR_NOT_PROTECTED_INTEREST	"1840" ('00000730'X) The URI_TOKEN specified does not represent a protected expression of interest.

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'731'	0	ATR_UR_STATE_ERROR	"1841" ('00000731'X) The unit of recovery is not in a valid state to complete the request.
0	(0)	X'732'	0	ATR_NO_DIST_SYNC_EXIT	"1842" ('00000732'X) The resource manager attempted to set the distributed syncpoint resource manager role, but did not set a DISTRIBUTED_SYNCPOINT exit.
0	(0)	X'733'	0	ATR_SSPC_ROLE_ERROR_DSRM	"1843" ('00000733'X) A resource manager has already invoked ATRSSPC for the distributed_syncpoint_resource_ manager role for this UR. This expression of interest is not allowed to assume the requested role for this UR.
0	(0)	X'734'	0	ATR_SSPC_ROLE_ERROR_LAST_AGENT	"1844" ('00000734'X) A resource manager has already invoked ATRSSPC for the last_agent_participant role for this UR. This expression of interest is not allowed to assume the requested role for this UR.
0	(0)	X'735'	0	ATR_UWID_ALREADY_SET	"1845" ('00000735'X) The requested unit of work ID has already been set for this UR.
0	(0)	X'736'	0	ATR_SROI_ALREADY_DONE	"1846" ('00000736'X) The resource manager has already successfully invoked ATRSROI for this URI_TOKEN.
0	(0)	X'738'	0	ATR_RM_ATTR_INCORRECT	"1848" ('00000738'X) The resource manager did not set all the exits via the CRGSEIF service which are required for its incomplete expressions of interest in URs. The resource manager has incomplete interest in a UR with the distributed syncpoint resource manager role, but the resource manager did not set a DISTRIBUTED_SYNCPOINT exit via CRGSEIF.
0	(0)	X'739'	0	ATR_PROTECTED_INTEREST	"1849" ('00000739'X) The URI_TOKEN specified represents a protected expression of interest.
0	(0)	X'73A'	0	ATR_RESTART_INCOMPLETE	"1850" ('0000073A'X) The resource manager has not obtained all of its incomplete UR expressions of interest.

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'73C'	0	ATR_AFTER_NEW_UR	"1852" ('0000073C'X) The resource manager has previously returned the ATRX_LATER_CONTINUE return code from an exit routine for this expression of interest. The requested function is not supported after that point for this expression of interest.
0	(0)	X'73D'	0	ATR_INV_FOR_RESTART_INTEREST	"1853" ('0000073D'X) The URI_TOKEN specified represents a restart expression of interest and the requested function is not supported for a restart expression of interest.
0	(0)	X'73E'	0	ATR_NO_COMPLETION_EXIT_SET	"1854" ('0000073E'X) The resource manager requested that COMPLETION exits be driven when it does not have any COMPLETION exit
0	(0)	X'73F'	0	ATR_LUWID_NOT_AVAILABLE	"1855" ('0000073F'X) The current LUWID for the specified unit of recovery is not available. The LUWID for a unit of recovery created by the use of ATRSROI is not available until the previous unit of recovery has reached In_Completion state.
0	(0)	X'740'	0	ATR_POST_NOT_PENDING	"1856" ('00000740'X) RRS/MVS is not expecting a post for any asynchronous work associated with this exit_number for this expression of interest.
0	(0)	X'741'	0	ATR_NOT_RETRIEVED_INTEREST	"1857" ('00000741'X) The URI_TOKEN specified does not represent a retrieved expression of interest.
0	(0)	X'742'	0	ATR_RESPONSE_NOT_PENDING	"1858" ('00000742'X) RRS/MVS is not expecting a response for this retrieved expression of interest.
0	(0)	X'743'	0	ATR_PARENT_UR_STATE_ERROR	"1859" ('00000743'X) The UR specified by the parent UR token is not in a valid state for the service call.
0	(0)	X'744'	0	ATR_CHILD_UR_STATE_ERROR	"1860" ('00000744'X) The UR associated with the specified context token is not in a valid state for the service call.
0	(0)	X'745'	0	ATR_AFTER_IN_PREPARE	"1861" ('00000745'X) The UR state has progressed beyond In_Prepare. This service cannot be invoked to set ATR_BACKOUT_REQUIRED at any time after that point for this expression of interest.

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'746'	0	ATR_ROLE_INCORRECT	"1862" ('00000746'X) The URI_TOKEN specified does not represent a protected expression of interest The resource manager attempted to set a role (ATR_SDSRM, ATR_DSRM, or ATR_LAST_AGENT) which is only valid for a protected expression of interest.
0	(0)	X'747'	0	ATR_TERMINATING_SYNCPOINT	"1863" ('00000747'X) RRS/MVS is processing a terminating syncpoint so there cannot be any more new URs for this context.
0	(0)	X'748'	0	ATR_RM_IS_THE_SDSRM	"1864" ('00000748'X) The resource manager issuing this request is the SDSRM for this UR, and RRS does not permit the SDSRM to issue the ATRSROI service.
0	(0)	X'748'	0	ATR_GEN_NOT_ALLOWED_NO_LUNAME	"1864" ('00000748'X) The resource manager did not set an LU Name on CRGSEIF so the resource manager cannot tell RRS/MVS to generate a LUWID.
0	(0)	X'749'	0	ATR_MAX_UR_LOG_DATA_EXCEEDED	"1865" ('00000749'X) The maximum amount of data which can be logged for a unit of recovery will be exceeded if this request is accepted.
0	(0)	X'74A'	0	ATR_NOT_SERVER_DSRM	"1866" ('0000074A'X) The resource manager does not have the server distributed syncpoint resource manager role for the unit of recovery
0	(0)	X'74B'	0	ATR_SSPC_ROLE_ERROR_SERVER_DSRM	"1867" ('0000074B'X) A resource manager has already invoked ATRSSPC for the server_distributed_syncpoint_ resource_manager role for this UR. This expression of interest is not allowed to assume the requested role for this UR.
0	(0)	X'74C'	0	ATR_SDSRM_DISALLOWS_COMMIT	"1868" ('0000074C'X) A resource manager involved in this unit of recovery has taken the server distributed syncpoint resource manager role. Only it may initiate the syncpoint operation for this unit of recovery
0	(0)	X'74D'	0	ATR_GEN_NOT_ALLOWED_EID	"1869" ('0000074D'X) Generating Enterprise identifier is not supported.

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'74E'	0	ATR_SET_NEXT_EID_INV	"1870" ('0000074E'X) Setting the next Enterprise identifier is not supported.
0	(0)	X'74F'	0	ATR_ROLE_CHANGE_AFTER_SYNC	"1871" ('0000074F'X) The role of an expression of interest cannot be changed once a syncpoint operation has begun.
0	(0)	X'750'	0	ATR_RESPOND_CONTINUE_REQUIRED	"1872" ('00000750'X) ATRIRRI must be issued to inform RRS to continue the RM interest procesing before this service can be issued against the interest.
0	(0)	X'751'	0	ATR_GEN_REQUIRED_XID	"1873" ('00000751'X) A generating option is required for an X/Open identifier.
0	(0)	X'752'	0	ATR_SET_NEXT_XID_INV	"1874" ('00000752'X) Setting the next X/Open identifier is not supported.
0	(0)	X'753'	0	ATR_GEN_NOT_ALLOWED_NO_URI_TOKEN	"1875" ('00000753'X) The resource manager did not specify an URI token, so RRS is not able to generate a LUWID. The system rejects the service call.
0	(0)	X'754'	0	ATR_RETRIEVE_NEXT_EID_INV	"1876" ('00000754'X) Retrieving the next Enterprise identifier is not supported.
0	(0)	X'755'	0	ATR_RETRIEVE_NEXT_XID_INV	"1877" ('00000755'X) Retrieving the next X/Open identifier is not supported.
0	(0)	X'756'	0	ATR_CASCADED_UR_DISALLOWS_COMMIT	"1878" ('00000756'X) This current UR is a child cascaded-UR. Only the top-level UR of a cascaded-UR family can be committed.
0	(0)	X'757'	0	ATR_ID_CONFLICT	"1879" ('00000757'X) Information identifiers specified on the call conflict with each other
0	(0)	X'758'	0	ATR_APPL_COMPLETE_INV	"1880" ('00000758'X) The specified UR cannot be set as application complete or not application complete
0	(0)	X'759'	0	ATR_ROLE_ERROR_CASCADED_UR	"1881" ('00000759'X) The specified UR is a cascaded UR. Only the participant role is valid.
0	(0)	X'760'	0	ATR_CASCADED_UR	"1888" ('00000760'X) The specified UR is a cascaded UR. Interest can not be retained in a cascaded UR
0	(0)	X'761'	0	ATR_APPL_COMPLETE_INV_STATE	

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"1889" ('00000761'X) The specified UR cannot be set as application-complete or not application-complete, because the UR is not in a valid state
0	(0)	X'762'	0	ATR_PRESUMED_NOTHING_INVALID	
					"1890" ('00000762'X) The specified URI has an invalid two-phase commit protocal selected PRESUMED_NOTHING is not allowed.
0	(0)	X'763'	0	ATR_NO_CASCADE_TO_PARENT	"ATR_PARENT_LOCAL_TRAN_MODE_INV" Allow variable that was used prior to Local Tran Mode.
0	(0)	X'763'	0	ATR_PARENT_LOCAL_TRAN_MODE_INV	
					"1891" ('00000763'X) The parent unit of recovery is in local transaction mode. This service is only valid for global transaction mode URs.
0	(0)	X'764'	0	ATR_NOT_ALLOWED_FOR_UR	"ATR_LOCAL_TRAN_MODE_INV" Allow variable that was used prior to Local Tran Mode.
0	(0)	X'764'	0	ATR_LOCAL_TRAN_MODE_INV	"1892" ('00000764'X) The current transaction mode is local. This service is only valid for global transaction mode URs.
0	(0)	X'765'	0	ATR_NO_LUWID_GEN_FOR_UR	"ATR_GEN_LUWID_NOT_ALLOWED_LOCAL" Allow variable that was used prior to Local Tran Mode.
0	(0)	X'765'	0	ATR_GEN_LUWID_NOT_ALLOWED_LOCAL	
					"1893" ('00000765'X) The request to generate a LUWID is not valid for local transactions. The system rejects this service.
0	(0)	X'766'	0	ATR_NO_SIDE_INFO_FOR_UR	"ATR_SIDE_INFO_ID_LOCAL_INV" Allow variable that was used prior to Local Tran Mode.
0	(0)	X'766'	0	ATR_SIDE_INFO_ID_LOCAL_INV	"1894" ('00000766'X) The identifier (or one of the identifiers) specified by the side_info_id array is not permitted when the UR is in local transaction mode.
0	(0)	X'767'	0	ATR_NO_XID_GEN_FOR_UR	"ATR_GEN_XID_NOT_ALLOWED_LOCAL" Allow variable that was used prior to Local Tran Mode.
0	(0)	X'767'	0	ATR_GEN_XID_NOT_ALLOWED_LOCAL	
					"1895" ('00000767'X) The request to generate a XID is not valid for local transactions. The system rejects this service.

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'769'	0	ATR_XID_NO_GLOBAL_MATCH	"1897" ('00000769'X) The request to set an XID for a cascaded UR failed because the FORMATIDs or GTRIDs do not match those of the parent UR
0	(0)	X'801'	0	ATR_SETTING_PROTECTED	"2049" ('00000801'X) Program Error. An unauthorized caller has attempted to change a setting that was protected by an authorized caller. The system rejects the service call.
0	(0)	X'802'	0	ATR_STOKEN_NOT_ZERO	"2050" ('00000802'X) Program Error. The stoken parameter specified is incorrect. The caller specified a scope parameter of either ATR_CONTEXT_SCOPE or ATR_DEFAULT_SCOPE and the stoken specified is not zero. The system rejects the service call.
0	(0)	X'803'	0	ATR_CTOKEN_NOT_ZERO	"2051" ('00000803'X) Program Error. The context_token parameter specified is incorrect. Environment setting scope was atr_address_space_scope and the context_token was not zero (0). The system rejects the service call.
0	(0)	X'804'	0	ATR_HYBRID_GLOBAL_MODE_ERROR	"2052" ('00000804'X) The service is not permitted if the RRS environment setting for transact transaction_mode that applies to the unit of recovery is ATR_HYBRID_GLOBAL_MODE.
0	(0)	X'805'	0	ATR_CUR_UR_TOKEN_NOT_CURRENT	"2053" ('00000805'X) The UR token specified by the caller does not match the UR token of the current recovery.
0	(0)	X'F00'	0	ATR_NOT_AVAILABLE	"3840" ('00000F00'X) RRS/MVS is not available.
0	(0)	X'F01'	0	ATR_HARDENED_DATA_LOST	"3841" ('00000F01'X) RRS/MVS has lost hardened data. Therefore, ATRIRNI may not be able to return data for all incomplete URs for this resource manager.
0	(0)	X'F02'	0	ATR_RESTART_WRONG_SYSTEM	"3842" ('00000F02'X) The resource manager is not restarting on the proper system. The resource manager is involved in incomplete URs on another system in the sysplex.
0	(0)	X'F03'	0	ATR_UR_RESOLVED_BY_INSTALLATION	

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"3843" ('00000F03'X) The resource manager invoked ATRPDUE to resolve an In_Doubt UR, but the installation already resolved the UR.
0	(0)	X'F04'	0	ATR_UNEXPECTED_UR_ERROR	"3844" ('00000F04'X) The unit of recovery being processed by the service request has suffered an unexpected error.
0	(0)	X'F05'	0	ATR_UNEXPECTED_CTX_ERROR	"3845" ('00000F05'X) The service request encountered an unexpected error from the CTX service, a dump from the context services should be examined.
0	(0)	X'F06'	0	ATR_WAS_NOT_AVAILABLE	"3846" ('00000F06'X) RRS/MVS was not available.
0	(0)	X'F07'	0	ATR_RM_GROUP_RRS_DOWNLEVEL	"3847" ('00000F07'X) The restarting Resource Manager belong to an RM group which has utilized an RRS function which is not supported by this version of RRS. The RRS on this system is downlevel and cannot hornor the request to restart at this time.
0	(0)	X'FFF'	0	ATR_UNEXPECTED_ERROR	"4095" ('00000FFF'X) The service routine encountered an unexpected error.
0	(0)	X'8000'	0	ATR_EXIT_PREPARE_NOT_SPECIFIED	"32768" ('00008000'X) The required PREPARE exit was not specified.
0	(0)	X'8001'	0	ATR_EXIT_COMMIT_NOT_SPECIFIED	"32769" ('00008001'X) The required COMMIT exit was not specified.
0	(0)	X'8002'	0	ATR_EXIT_BACKOUT_NOT_SPECIFIED	"32770" ('00008002'X) The required BACKOUT exit was not specified.
0	(0)	X'8003'	0	ATR_EXIT_EXIT_FAILED_NOT_SPECIFIED	"32771" ('00008003'X) The required EXIT_FAILED exit was not specified.
0	(0)	X'8004'	0	ATR_RM_ACTIVE_ON_ANOTHER_SYSTEM	"32772" ('00008004'X) The resource manager currently has exits set with RRS/MVS on another system in the sysplex.
0	(0)	X'8005'	0	ATR_RM_NEW_KEY_INV	"32773" ('00008005'X) The key of a resource manager cannot be changed once exits are initially set with RRS/MVS.

Table 141. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'8006'	0	ATR_SEIF_PARM_NOT_ADDR	"32774" ('00008006'X) The parameters passed by the caller are not addressable.
0	(0)	X'8007'	0	ATR_EM_WRONG_STATE	"32775" ('00008007'X) The exit manager is in the wrong state to process the set exits request.
0	(0)	X'8008'	0	ATR_RM_WRONG_STATE	"32776" ('00008008'X) The resource manager is in the wrong state to set exits with RRS.
0	(0)	X'8009'	0	ATR_EM_UNAVAILABLE	"32777" ('00008009'X) The resource manager has been unset because RRS was terminated via the SETRRS Shutdown command. Wait for RRS to become active and reset the resource manager's exit with RRS.
0	(0)	X'800A'	0	ATR_RM_METADATA_UNSUPPORTED	"32778" ('0000800A'X) The caller requested RM Metadata support, but the system does not have RM Metadata support active. RRS was not able to connect to the RM Metadata log stream. The system rejects the service request.
Declares for RRS stoken name/token pair					
0	(0)	CHARACTER	16	ATR_RRS_STOKEN_NAME	
0	(0)	X'1'	0	ATR_TOKEN_LEVEL_VALUE	"1"

Table 142. Structure ATR_STKN_TOKEN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR_STKN_TOKEN	
0	(0)	CHARACTER	8	ATR_RRS_STOKEN	
8	(8)	BITSTRING	1	ATR_TOKEN_LEVEL	
9	(9)	CHARACTER	7		

Table 143. Structure ATRPETRELCODE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRPETRELCODE	
0	(0)	BITSTRING	1	ATRRCODEBYTE1	Byte 1 of ATRPETRELCODE
		1...		ATRRCODENONRRS	"X'80'" Someone other than RRS released this PET
		.1..		ATRRCODERRSFAILED	"X'40'" This PET was released by RRS during RRS address space termination
1	(1)	BITSTRING	1	ATRRCODEBYTE2	Byte 2 of ATRPETRELCODE
		.1..		ATRRCODETERMINATINGSYNCPOINT	

Table 143. Structure ATRPETRELCODE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'40'" Terminating Syncpoint in progress. RRS/MVS has issued an implicit commit or backout because the context is terminating. There cannot be any more new URs for this context.
		..1.		ATRRCODERESOLVEDBYINSTALLATION	"X'20'" Indicates the In-Doubt state of this UR was resolved by the installation (e.g. by forcing a COMMIT or BACKOUT decision via the RRS/MVS ISPF interface.
		...1		ATRRCODEHEURISTICMIXED	"X'10'" Indicates that a Heuristic mixed condition was detected for this UR.
		.... 1...		ATRRCDOERESYNCINPROGRESS	"X'08'" Indicates that a Resync-In-Progress (RIP) condition is present for this UR.
		.... .1..		ATRRCODEPREPARERESULTFORGET	"X'04'" Indicates that the prepare vote for this expression of interest was ABSTAIN, and the overall prepare vote result for the UR was FORGET.
		.... ..1.		ATRRCODEIMMEDIATEBACKOUT	"X'02'" Indicates that the backout operation was requested by the application and was not the result of a resource manager being unable to commit its resources
2	(2)	BITSTRING	1	ATRRCODEBYTE3	Byte 3 of ATRPETRELCODE
		1...		ATRRCODECOMMIT	"X'80'" Indicates that the overall decision of this UR was to commit the UR.
		...1		ATRRCODECASCADEDUR	"X'10'" The UR associated with this PET was a cascaded UR
		.... 11..		ATRRCODETRANSACTIONMODE	"X'0C'"

Table 144. Structure ATR_CRGSEIF_VALUE_2

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR_CRGSEIF_VALUE_2	
0	(0)	BITSTRING	1	ATR_CRGSEIF_VALUE_2_BYTE1	
		1...		ATR_EF_ON_LATER_WITH_ASYNC	"X'80'" !
		.111 1111		ATR_EXIT_OPTS_RSRVD	"X'7F'" !
0	(0)	BITSTRING	1	ATR_CRGSEIF_VALUE_2_BYTE2	
		1...		ATR_SUPPORTS_LOCAL_TRAN_MODE	"X'80'" !
		.1..		ATR_8K_RM_METADATA_REQUESTED	"X'40'" !
		..11 1111		ATR_RM_OPTS_RSRVD	"X'3F'" !

Table 144. Structure ATR_CRGSEIF_VALUE_2 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	1	ATR_CRGSEIF_VALUE_2_BYTE3	
1	(1)	BITSTRING	1	ATR_CRGSEIF_VALUE_2_BYTE4	

Table 145. Structure ATRXPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRXPARMLIST	
0	(0)	ADDRESS	4	ATRXPARMRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRXPARMVERSIONPTR	Address of version number
8	(8)	ADDRESS	4	ATRXPARMEXITNUMBERPTR	Address of exit number
12	(C)	ADDRESS	4	ATRXPARMRMTOKENPTR	Address of resource manager token
16	(10)	ADDRESS	4	ATRXPARMEMNAMEPTR	Address of exit manager name
20	(14)	ADDRESS	4	ATRXPARMRMGLOBALDATAPTR	Address of RM global data
24	(18)	ADDRESS	4	ATRXPARMURITOKENPTR	Address of URI token
28	(1C)	ADDRESS	4	ATRXPARMNONPERSISTENTDATAPTR	Address of persistent data length
32	(20)	ADDRESS	4	ATRXPARMEXITFLAGSPTR	Address of exit flags
36	(24)	ADDRESS	4	ATRXPARMVALUE1PTR	Address of value1
40	(28)	ADDRESS	4	ATRXPARMVALUE2PTR	Address of value2
44	(2C)	ADDRESS	4	ATRXPARMVALUE3PTR	Address of value3
48	(30)	ADDRESS	4	ATRXPARMVALUE4PTR	Address of value4
52	(34)	ADDRESS	4	ATRXPARMVALUE5PTR	Address of value5

Table 146. Structure ATREINTPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATREINTPARMLIST	
0	(0)	ADDRESS	4	ATREINTRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATREINTRMTOKENPTR	Address of resource manager token
8	(8)	ADDRESS	4	ATREINTCONTEXTTOKENPTR	Address of context token
12	(C)	ADDRESS	4	ATREINTURITOKENPTR	Address of URI token
16	(10)	ADDRESS	4	ATREINTCURRCONTEXTTOKENPTR	Address of current context token
20	(14)	ADDRESS	4	ATREINTURIDPTR	Address of URID
24	(18)	ADDRESS	4	ATREINTMULTIPLEINTERESTOPTION	Address of multiple interest option
28	(1C)	ADDRESS	4	ATREINTINTERESTTYPEPTR	Address of interest type
32	(20)	ADDRESS	4	ATREINTFAILUREACTIONPTR	Address of failure action
36	(24)	ADDRESS	4	ATREINTTWOPHASEPROTOCOLPTR	Address of two phase protocol
40	(28)	ADDRESS	4	ATREINTNONPERSISTENTDATAPTR	Address of nonpersistent data
44	(2C)	ADDRESS	4	ATREINTCURRNONPDATAPTR	Address of current nonp data
48	(30)	ADDRESS	4	ATREINTPDATALENGTHPTR	Address of persistent data length
52	(34)	ADDRESS	4	ATREINTPDATAPTR	Address of persistent data

Table 147. Structure ATRDINTPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRDINTPARMLIST	
0	(0)	ADDRESS	4	ATRDINTRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRDINTURITOKENPTR	Address of URI token

Table 148. Structure ATR4DINTPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4DINTPARMLIST	
0	(0)	ADDRESS	8	ATR4DINTRETURNCODEPTR	Address of return code !
8	(8)	ADDRESS	8	ATR4DINTURITOKENPTR	Address of URI token !

Table 149. Structure ATRPDUEPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRPDUEPARMLIST	
0	(0)	ADDRESS	4	ATRPDUERETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRPDUEURITOKENPTR	Address of URI token
8	(8)	ADDRESS	4	ATRPDUEEXITNUMBERPTR	Address of exit number
12	(C)	ADDRESS	4	ATRPDUECOMPLETIONCODEPTR	Address of completion code

Table 150. Structure ATR4PDUEPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4PDUEPARMLIST	
0	(0)	ADDRESS	8	ATR4PDUERETURNCODEPTR	Address of return code !
8	(8)	ADDRESS	8	ATR4PDUEURITOKENPTR	Address of URI token !
16	(10)	ADDRESS	8	ATR4PDUEEXITNUMBERPTR	Address of exit number !
24	(18)	ADDRESS	8	ATR4PDUECOMPLETIONCODEPTR	Address of completion code !

Table 151. Structure ATRIBRSPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRIBRSPARMLIST	
0	(0)	ADDRESS	4	ATRIBRSRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRIBRSRMTOKENPTR	Address of resource manager token

Table 152. Structure ATR4IBRSPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4IBRSPARMLIST	
0	(0)	ADDRESS	8	ATR4IBRSRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4IBRSRMTOKENPTR	Address of resource manager token

ATRRASM mapping

Table 153. Structure ATRIERSPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRIERSPARMLIST	
0	(0)	ADDRESS	4	ATRIERSRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRIERSRMTOKENPTR	Address of resource manager token

Table 154. Structure ATR4IERSPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4IERSPARMLIST	
0	(0)	ADDRESS	8	ATR4IERSRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4IERSRMTOKENPTR	Address of resource manager token

Table 155. Structure ATRIRNIPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRIRNIPARMLIST	
0	(0)	ADDRESS	4	ATRIRNIRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRIRNIRMTOKENPTR	Address of resource manager token
8	(8)	ADDRESS	4	ATRIRNICONTEXTTOKENPTR	Address of context token
12	(C)	ADDRESS	4	ATRIRNIURITOKENPTR	Address of URI token
16	(10)	ADDRESS	4	ATRIRNIURIDPTR	Address of URID
20	(14)	ADDRESS	4	ATRIRNIROLEPTR	Address of role
24	(18)	ADDRESS	4	ATRIRNIURSTATEPTR	Address of UR state
28	(1C)	ADDRESS	4	ATRIRNIPDATABUFFERLENGTHPTR	Address of pdata buffer length
32	(20)	ADDRESS	4	ATRIRNIPDATALENGTHPTR	Address of persistent data length
36	(24)	ADDRESS	4	ATRIRNIPDATAPTR	Address of persistent data

Table 156. Structure ATR4IRNIPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4IRNIPARMLIST	
0	(0)	ADDRESS	8	ATR4IRNIRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4IRNIRMTOKENPTR	Address of resource manager token
16	(10)	ADDRESS	8	ATR4IRNICONTEXTTOKENPTR	Address of context token
24	(18)	ADDRESS	8	ATR4IRNIURITOKENPTR	Address of URI token
32	(20)	ADDRESS	8	ATR4IRNIURIDPTR	Address of URID
40	(28)	ADDRESS	8	ATR4IRNIROLEPTR	Address of role
48	(30)	ADDRESS	8	ATR4IRNIURSTATEPTR	Address of UR state
56	(38)	ADDRESS	8	ATR4IRNIPDATABUFFERLENGTHPTR	Address of pdata buffer lengt
64	(40)	ADDRESS	8	ATR4IRNIPDATALENGTHPTR	Address of persistent data length
72	(48)	ADDRESS	8	ATR4IRNIPDATAPTR	Address of persistent data

Table 157. Structure ATRIRRIPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRIRRIPARMLIST	
0	(0)	ADDRESS	4	ATRIRRIRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRIRRIURITOKENPTR	Address of URI token
8	(8)	ADDRESS	4	ATRIRRIRESPONSECODEPTR	Address of response code
12	(C)	ADDRESS	4	ATRIRRINONPERSISTENTDATAPTR	Address of nonpersistent data

Table 158. Structure ATR4IRRIPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4IRRIPARMLIST	
0	(0)	ADDRESS	8	ATR4IRRIRETURNCODEPTR	Address of return code !
8	(8)	ADDRESS	8	ATR4IRRIURITOKENPTR	Address of URI token !
16	(10)	ADDRESS	8	ATR4IRRIRESPONSECODEPTR	Address of response code !
24	(18)	ADDRESS	8	ATR4IRRINONPERSISTENTDATAPTR	Address of nonpersistent data

Table 159. Structure ATRIRLNPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRIRLNPARMLIST	
0	(0)	ADDRESS	4	ATRIRLNRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRIRLNRMTOKENPTR	Address of resource manager token
8	(8)	ADDRESS	4	ATRIRLNRMLOGNAMEBUFLENPTR	Address of RM logname buffer length
12	(C)	ADDRESS	4	ATRIRLNRMLOGNAMELENGTHPTR	Address of RM logname length
16	(10)	ADDRESS	4	ATRIRLNRMLOGNAMEPTR	Address of RM logname
20	(14)	ADDRESS	4	ATRIRLNRRSLOGNAMELENGTHPTR	Address of RRS logname length
24	(18)	ADDRESS	4	ATRIRLNRRSLOGNAMEPTR	Address of RRS logname

Table 160. Structure ATR4IRLNPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4IRLNPARMLIST	
0	(0)	ADDRESS	8	ATR4IRLNRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4IRLNRMTOKENPTR	Address of resource manager token
16	(10)	ADDRESS	8	ATR4IRLNRMLOGNAMEBUFLENPTR	Address of RM logname buffer length
24	(18)	ADDRESS	8	ATR4IRLNRMLOGNAMELENGTHPTR	Address of RM logname length
32	(20)	ADDRESS	8	ATR4IRLNRMLOGNAMEPTR	Address of RM logname
40	(28)	ADDRESS	8	ATR4IRLNRRSLOGNAMELENGTHPTR	Address of RRS logname length
48	(30)	ADDRESS	8	ATR4IRLNRRSLOGNAMEPTR	Address of RRS logname

Table 161. Structure ATRISLNPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRISLNPARMLIST	
0	(0)	ADDRESS	4	ATRISLNRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRISLNRMTOKENPTR	Address of resource manager token
8	(8)	ADDRESS	4	ATRISLNRMLOGNAMELENGTHPTR	Address of RM logname length
12	(C)	ADDRESS	4	ATRISLNRMLOGNAMEPTR	Address of RM logname

Table 162. Structure ATR4ISLNPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4ISLNPARMLIST	
0	(0)	ADDRESS	8	ATR4ISLNRETURNCODEPTR	Address of return code !
8	(8)	ADDRESS	8	ATR4ISLNRMTOKENPTR	Address of resource manager token
16	(10)	ADDRESS	8	ATR4ISLNRMLOGNAMELENGTHPTR	Address of RM logname length
24	(18)	ADDRESS	8	ATR4ISLNRMLOGNAMEPTR	Address of RM logname !

Table 163. Structure ATRREICPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRREICPARMLIST	
0	(0)	ADDRESS	4	ATRREICRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRREICCONTEXTTOKENPTR	Address of context token
8	(8)	ADDRESS	4	ATRREICINTERESTCOUNTINFOPTR	Address of interest count info

Table 164. Structure ATR4REICPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4REICPARMLIST	
0	(0)	ADDRESS	8	ATR4REICRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4REICCONTEXTTOKENPTR	Address of context token
16	(10)	ADDRESS	8	ATR4REICINTERESTCOUNTINFOPTR	Address of interest count info

Table 165. Structure ATRRIDPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRRIDPARMLIST	
0	(0)	ADDRESS	4	ATRRIDRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRRIDURITOKENPTR	Address of URI token
8	(8)	ADDRESS	4	ATRRIDNONPERSISTENTDATAPTR	Address of nonpersistent data
12	(C)	ADDRESS	4	ATRRIDPDATABUFFERLENGTHPTR	Address of pdata buffer length
16	(10)	ADDRESS	4	ATRRIDPDATALENGTHPTR	Address of persistent data length
20	(14)	ADDRESS	4	ATRRIDPDATAPTR	Address of persistent data
24	(18)	ADDRESS	4	ATRRIDINTERESTTYPEPTR	Address of interest type
28	(1C)	ADDRESS	4	ATRRIDEXPOFINTTYPEPTR	Address of exp of int type

Table 165. Structure ATRRIDPARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	ADDRESS	4	ATRRIDROLEPTR	Address of role

Table 166. Structure ATR4RIDPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4RIDPARMLIST	
0	(0)	ADDRESS	8	ATR4RIDRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4RIDURITOKENPTR	Address of URI token
16	(10)	ADDRESS	8	ATR4RIDNONPERSISTENTDATAPTR	Address of nonpersistent data
24	(18)	ADDRESS	8	ATR4RIDPDATABUFFERLENGTHPTR	Address of pdata buffer length
32	(20)	ADDRESS	8	ATR4RIDPDATALENGTHPTR	Address of persistent data length
40	(28)	ADDRESS	8	ATR4RIDPDATAPTR	Address of persistent data
48	(30)	ADDRESS	8	ATR4RIDINTERESTTYPEPTR	Address of interest type
56	(38)	ADDRESS	8	ATR4RIDEXPOFINTTYPEPTR	Address of exp of int type
64	(40)	ADDRESS	8	ATR4RIDROLEPTR	Address of role

Table 167. Structure ATRRURDPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRRURDPARMLIST	
0	(0)	ADDRESS	4	ATRRURDRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRRURDURITOKENPTR	Address of URI token
8	(8)	ADDRESS	4	ATRRURDURIDPTR	Address of URID
12	(C)	ADDRESS	4	ATRRURDURSTATEPTR	Address of UR state

Table 168. Structure ATRRUSIPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRRUSIPARMLIST	
0	(0)	ADDRESS	4	ATRRUSIRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRRUSIURITOKENPTR	Address of URI token
8	(8)	ADDRESS	4	ATRRUSIELEMENTCOUNTPTR	Address of element count
12	(C)	ADDRESS	4	ATRRUSISIDEINFOARRAYPTR	Address of side info array
16	(10)	ADDRESS	4	ATRRUSISIDEINFOSTATEARRAYPTR	Address of side info state array

Table 169. Structure ATRRWIDPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRRWIDPARMLIST	
0	(0)	ADDRESS	4	ATRRWIDRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRRWIDURITOKENPTR	Address of URI token
8	(8)	ADDRESS	4	ATRRWIDRETRIEVEOPTIONPTR	Address of retrieve option
12	(C)	ADDRESS	4	ATRRWIDGENERATEOPTIONPTR	Address of generate option
16	(10)	ADDRESS	4	ATRRWIDUWIDTYPEPTR	Address of uwid type

Table 169. Structure ATRRWIDPARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	ADDRESS	4	ATRRWIDUWIDBUFFERLENPTR	Address of uwid buffer length
24	(18)	ADDRESS	4	ATRRWIDUWIDLENPTR	Address of uwid length
28	(1C)	ADDRESS	4	ATRRWIDUWIDDATAPTR	Address of uwid data

Table 170. Structure ATRSITPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSITPARMLIST	
0	(0)	ADDRESS	4	ATRSITRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRSITURITOKENPTR	Address of URI token
8	(8)	ADDRESS	4	ATRSITURIDPTR	Address of URID
12	(C)	ADDRESS	4	ATRSITINTERESTTYPEPTR	Address of interest type
16	(10)	ADDRESS	4	ATRSITFAILUREACTIONPTR	Address of failure action
20	(14)	ADDRESS	4	ATRSITPDATALENGTHPTR	Address of persistent data length
24	(18)	ADDRESS	4	ATRSITPDATAPTR	Address of persistent data

Table 171. Structure ATR4SITPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4SITPARMLIST	
0	(0)	ADDRESS	8	ATR4SITRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4SITURITOKENPTR	Address of URI token
16	(10)	ADDRESS	8	ATR4SITURIDPTR	Address of URID
24	(18)	ADDRESS	8	ATR4SITINTERESTTYPEPTR	Address of interest type
32	(20)	ADDRESS	8	ATR4SITFAILUREACTIONPTR	Address of failure action
40	(28)	ADDRESS	8	ATR4SITPDATALENGTHPTR	Address of persistent data length
48	(30)	ADDRESS	8	ATR4SITPDATAPTR	Address of persistent data

Table 172. Structure ATRSPIDPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSPIDPARMLIST	
0	(0)	ADDRESS	4	ATRSPIDRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRSPIDURITOKENPTR	Address of URI token
8	(8)	ADDRESS	4	ATRSPIDPDATALENGTHPTR	Address of persistent data length
12	(C)	ADDRESS	4	ATRSPIDPDATAPTR	Address of persistent data

Table 173. Structure ATR4SPIDPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4SPIDPARMLIST	
0	(0)	ADDRESS	8	ATR4SPIDRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4SPIDURITOKENPTR	Address of URI token
16	(10)	ADDRESS	8	ATR4SPIDPDATALENGTHPTR	Address of persistent data length

Table 173. Structure ATR4SPIDPARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	ADDRESS	8	ATR4SPIDPDATAPTR	Address of persistent data

Table 174. Structure ATRSROIPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSROIPARMLIST	
0	(0)	ADDRESS	4	ATRSROIRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRSROIURITOKENPTR	Address of URI token
8	(8)	ADDRESS	4	ATRSROINEWURITOKENPTR	Address of new URI token
12	(C)	ADDRESS	4	ATRSROIURIDPTR	Address of URID
16	(10)	ADDRESS	4	ATRSROIINTERESTTYPEPTR	Address of interest type
20	(14)	ADDRESS	4	ATRSROIFAILUREACTIONPTR	Address of failure action
24	(18)	ADDRESS	4	ATRSROINONPERSISTENTDATAPTR	Address of nonpersistent data
28	(1C)	ADDRESS	4	ATRSROIPDATALENGTHPTR	Address of persistent data length
32	(20)	ADDRESS	4	ATRSROIPDATAPTR	Address of persistent data

Table 175. Structure ATRSROI1PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSROI1PARMLIST	
0	(0)	ADDRESS	4	ATRSROI1RETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRSROI1URITOKENPTR	Address of URI token
8	(8)	ADDRESS	4	ATRSROI1NEWURITOKENPTR	Address of new URI token
12	(C)	ADDRESS	4	ATRSROI1URIDPTR	Address of URID
16	(10)	ADDRESS	4	ATRSROI1INTERESTOPTIONSPTR	Address of interest options
20	(14)	ADDRESS	4	ATRSROI1NONPERSISTENTDATAPTR	Address of nonpersistent data
24	(18)	ADDRESS	4	ATRSROI1PDATALENGTHPTR	Address of persistent data lgth
28	(1C)	ADDRESS	4	ATRSROI1PDATAPTR	Address of persistent data

Table 176. Structure ATR4SROIPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4SROIPARMLIST	
0	(0)	ADDRESS	8	ATR4SROIRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4SROIURITOKENPTR	Address of URI token
16	(10)	ADDRESS	8	ATR4SROINEWURITOKENPTR	Address of new URI token
24	(18)	ADDRESS	8	ATR4SROIURIDPTR	Address of URID
32	(20)	ADDRESS	8	ATR4SROIINTERESTOPTIONSPTR	Address of interest options
40	(28)	ADDRESS	8	ATR4SROINONPERSISTENTDATAPTR	Address of nonpersistent data
48	(30)	ADDRESS	8	ATR4SROIPDATALENGTHPTR	Address of persistent data length
56	(38)	ADDRESS	8	ATR4SROIPDATAPTR	Address of persistent data

ATRRASM mapping

Table 177. Structure ATRSSPCPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSSPCPARMLIST	
0	(0)	ADDRESS	4	ATRSSPCRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRSSPCURITOKENPTR	Address of URI token
8	(8)	ADDRESS	4	ATRSSPCPREPAREEXITCODEPTR	Address of prepare exit code
12	(C)	ADDRESS	4	ATRSSPCCOMMITEXITCODEPTR	Address of commit exit code
16	(10)	ADDRESS	4	ATRSSPCBACKOUTEXITCODEPTR	Address of backout exit code
20	(14)	ADDRESS	4	ATRSSPCROLEPTR	Address of role

Table 178. Structure ATR4SSPCPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4SSPCPARMLIST	
0	(0)	ADDRESS	8	ATR4SSPCRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4SSPCURITOKENPTR	Address of URI token
16	(10)	ADDRESS	8	ATR4SSPCPREPAREEXITCODEPTR	Address of prepare exit code
24	(18)	ADDRESS	8	ATR4SSPCCOMMITEXITCODEPTR	Address of commit exit code
32	(20)	ADDRESS	8	ATR4SSPCBACKOUTEXITCODEPTR	Address of backout exit code
40	(28)	ADDRESS	8	ATR4SSPCROLEPTR	Address of role

Table 179. Structure ATRSUSIPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSUSIPARMLIST	
0	(0)	ADDRESS	4	ATRSUSIRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRSUSIURITOKENPTR	Address of URI token
8	(8)	ADDRESS	4	ATRSUSIELEMENTCOUNTPTR	Address of element count
12	(C)	ADDRESS	4	ATRSUSISIDEINFOARRAYPTR	Address of side info array

Table 180. Structure ATRSWIDPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSWIDPARMLIST	
0	(0)	ADDRESS	4	ATRSWIDRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRSWIDURITOKENPTR	Address of URI token
8	(8)	ADDRESS	4	ATRSWIDSETOPTIONPTR	Address of set option
12	(C)	ADDRESS	4	ATRSWIDUWIDTYPEPTR	Address of uwid type
16	(10)	ADDRESS	4	ATRSWIDUWIDLENPTR	Address of uwid length
20	(14)	ADDRESS	4	ATRSWIDUWIDDATAPTR	Address of uwid data

Table 181. Structure ATRBACKPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRBACKPARMLIST	
0	(0)	ADDRESS	4	ATRBACKRETURNCODEPTR	Address of return code

Table 182. Structure ATR4BACKPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4BACKPARMLIST	
0	(0)	ADDRESS	8	ATR4BACKRETURNCODEPTR	Address of return code

Table 183. Structure ATRCMITPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRCMITPARMLIST	
0	(0)	ADDRESS	4	ATRCMITRETURNCODEPTR	Address of return code

Table 184. Structure ATR4CMITPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4CMITPARMLIST	
0	(0)	ADDRESS	8	ATR4CMITRETURNCODEPTR	Address of return code

Table 185. Structure ATRRURD1PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRRURD1PARMLIST	
0	(0)	ADDRESS	4	ATRRURD1RETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRRURD1URITOKENPTR	Address of URI token
8	(8)	ADDRESS	4	ATRRURD1URIDPTR	Address of URID
12	(C)	ADDRESS	4	ATRRURD1URSTATEPTR	Address of UR state
16	(10)	ADDRESS	4	ATRRURD1STATESOPTIONPTR	Address of states option

Table 186. Structure ATRRURD2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRRURD2PARMLIST	
0	(0)	ADDRESS	4	ATRRURD2RETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRRURD2URORURITOKENPTR	Address of UR or URI token
8	(8)	ADDRESS	4	ATRRURD2URIDPTR	Address of URID
12	(C)	ADDRESS	4	ATRRURD2URSTATEPTR	Address of UR state
16	(10)	ADDRESS	4	ATRRURD2STATESOPTIONPTR	Address of states option
20	(14)	ADDRESS	4	ATRRURD2URTOKENPTR	Address of UR token

Table 187. Structure ATR4RURDPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4RURDPARMLIST	
0	(0)	ADDRESS	8	ATR4RURDRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4RURDURORURITOKENPTR	Address of UR or URI token
16	(10)	ADDRESS	8	ATR4RURDURIDPTR	Address of URID
24	(18)	ADDRESS	8	ATR4RURDURSTATEPTR	Address of UR state
32	(20)	ADDRESS	8	ATR4RURDSTATESOPTIONPTR	Address of states option
40	(28)	ADDRESS	8	ATR4RURDURTOKENPTR	Address of UR token

Table 188. Structure ATRCCUR2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRCCUR2PARMLIST	
0	(0)	ADDRESS	4	ATRCCUR2RETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRCCUR2PARENTURTOKENPTR	Address of Parent UR Token
8	(8)	ADDRESS	4	ATRCCUR2CHILDCONTEXTTOKENPTR	Address of Child Context Token
12	(C)	ADDRESS	4	ATRCCUR2CHILDURTOKEN	Address of Child UR Token
16	(10)	ADDRESS	4	ATRCCUR2CHILDURID	Address of Child UR ID

Table 189. Structure ATRCCUR3PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRCCUR3PARMLIST	
0	(0)	ADDRESS	4	ATRCCUR3RETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRCCUR3PARENTURTOKENPTR	Address of Parent UR Token
8	(8)	ADDRESS	4	ATRCCUR3CHILDCONTEXTTOKENPTR	Address of Child Context Token
12	(C)	ADDRESS	4	ATRCCUR3CHILDURTOKEN	Address of Child UR Token
16	(10)	ADDRESS	4	ATRCCUR3CHILDURID	Address of Child UR ID
20	(14)	ADDRESS	4	ATRCCUR3CREATEOPTIONS	Address of create options

Table 190. Structure ATR4CCURPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4CCURPARMLIST	
0	(0)	ADDRESS	8	ATR4CCURRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4CCURPARENTURTOKENPTR	Address of Parent UR Token
16	(10)	ADDRESS	8	ATR4CCURCHILDCONTEXTTOKENPTR	Address of Child Context Token
24	(18)	ADDRESS	8	ATR4CCURCHILDURTOKEN	Address of Child UR Token
32	(20)	ADDRESS	8	ATR4CCURCHILDURID	Address of Child UR ID
40	(28)	ADDRESS	8	ATR4CCURCREATEOPTIONS	Address of create options

Table 191. Structure ATREINT2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATREINT2PARMLIST	
0	(0)	ADDRESS	4	ATREINT2RETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATREINT2RMTOKENPTR	Address of resource manager token
8	(8)	ADDRESS	4	ATREINT2CONTEXTTOKENPTR	Address of context token
12	(C)	ADDRESS	4	ATREINT2URITOKENPTR	Address of URI token
16	(10)	ADDRESS	4	ATREINT2CURRCONTEXTTOKENPTR	Address of current context token
20	(14)	ADDRESS	4	ATREINT2URIDPTR	Address of URID
24	(18)	ADDRESS	4	ATREINT2MULTIPLEINTERESTOPTION	Address of multiple interest option
28	(1C)	ADDRESS	4	ATREINT2INTERESTTYPEPTR	Address of interest type
32	(20)	ADDRESS	4	ATREINT2FAILUREACTIONPTR	Address of failure action

Table 191. Structure ATREINT2PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	ADDRESS	4	ATREINT2TWOPHASEPROTOCOLPTR	Address of two phase protocol
40	(28)	ADDRESS	4	ATREINT2NONPERSISTENTDATAPTR	Address of nonpersistent data
44	(2C)	ADDRESS	4	ATREINT2CURRNONPDATAPTR	Address of current nonp data
48	(30)	ADDRESS	4	ATREINT2PDATALENGTHPTR	Address of persistent data length
52	(34)	ADDRESS	4	ATREINT2PDATAPTR	Address of persistent data
56	(38)	ADDRESS	4	ATREINT2XIDLENGTHPTR	Address of XID length
60	(3C)	ADDRESS	4	ATREINT2XIDPTR	Address of XID
64	(40)	ADDRESS	4	ATREINT2URFAMILYOPTIONPTR	Address of UR Family option
68	(44)	ADDRESS	4	ATREINT2PARENTURTOKENPTR	Address of parent ur token

Table 192. Structure ATREINT3PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATREINT3PARMLIST	
0	(0)	ADDRESS	4	ATREINT3RETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATREINT3RMTOKENPTR	Address of resource manager token
8	(8)	ADDRESS	4	ATREINT3CONTEXTTOKENPTR	Address of context token
12	(C)	ADDRESS	4	ATREINT3URITOKENPTR	Address of URI token
16	(10)	ADDRESS	4	ATREINT3CURRCONTEXTTOKENPTR	Address of current context token
20	(14)	ADDRESS	4	ATREINT3URIDPTR	Address of URID
24	(18)	ADDRESS	4	ATREINT3MULTIPLEINTERESTOPTION	Address of multiple interest option
28	(1C)	ADDRESS	4	ATREINT3INTERESTTYPEPTR	Address of interest type
32	(20)	ADDRESS	4	ATREINT3FAILUREACTIONPTR	Address of failure action
36	(24)	ADDRESS	4	ATREINT3TWOPHASEPROTOCOLPTR	Address of two phase protocol
40	(28)	ADDRESS	4	ATREINT3NONPERSISTENTDATAPTR	Address of nonpersistent data
44	(2C)	ADDRESS	4	ATREINT3CURRNONPDATAPTR	Address of current nonp data
48	(30)	ADDRESS	4	ATREINT3PDATALENGTHPTR	Address of persistent data length
52	(34)	ADDRESS	4	ATREINT3PDATAPTR	Address of persistent data
56	(38)	ADDRESS	4	ATREINT3XIDLENGTHPTR	Address of XID length
60	(3C)	ADDRESS	4	ATREINT3XIDPTR	Address of XID
64	(40)	ADDRESS	4	ATREINT3DIAGAREAPTR	Address of diagnostic area
68	(44)	ADDRESS	4	ATREINT3TRANMODEPTR	Address of transaction mode

Table 193. Structure ATREINT4PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATREINT4PARMLIST	
0	(0)	ADDRESS	4	ATREINT4RETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATREINT4RMTOKENPTR	Address of resource manager token

Table 193. Structure ATREINT4PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	ADDRESS	4	ATREINT4CONTEXTTOKENPTR	Address of context token
12	(C)	ADDRESS	4	ATREINT4URITOKENPTR	Address of URI token
16	(10)	ADDRESS	4	ATREINT4CURRCONTEXTTOKENPTR	Address of current context token
20	(14)	ADDRESS	4	ATREINT4URIDPTR	Address of URID
24	(18)	ADDRESS	4	ATREINT4MULTIPLEINTERESTOPTION	Address of multiple interest option
28	(1C)	ADDRESS	4	ATREINT4INTERESTTYPEPTR	Address of interest type
32	(20)	ADDRESS	4	ATREINT4FAILUREACTIONPTR	Address of failure action
36	(24)	ADDRESS	4	ATREINT4TWOPHASEPROTOCOLPTR	Address of two phase protocol
40	(28)	ADDRESS	4	ATREINT4NONPERSISTENTDATAPTR	Address of nonpersistent data
44	(2C)	ADDRESS	4	ATREINT4CURRNONPDATAPTR	Address of current nonp data
48	(30)	ADDRESS	4	ATREINT4PDATALENGTHPTR	Address of persistent data length
52	(34)	ADDRESS	4	ATREINT4PDATAPTR	Address of persistent data
56	(38)	ADDRESS	4	ATREINT4XIDLENGTHPTR	Address of XID length
60	(3C)	ADDRESS	4	ATREINT4XIDPTR	Address of XID
64	(40)	ADDRESS	4	ATREINT4URFAMILYOPTIONPTR	Address of UR Family option
68	(44)	ADDRESS	4	ATREINT4PARENTURTOKENPTR	Address of parent ur token
72	(48)	ADDRESS	4	ATREINT4DIAGAREAPTR	Address of diagnostic area
76	(4C)	ADDRESS	4	ATREINT4TRANMODEPTR	Address of transaction mode

Table 194. Structure ATREINT5PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATREINT5PARMLIST	
0	(0)	ADDRESS	4	ATREINT5RETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATREINT5RMTOKENPTR	Address of resource manager token
8	(8)	ADDRESS	4	ATREINT5CONTEXTTOKENPTR	Address of context token
12	(C)	ADDRESS	4	ATREINT5URITOKENPTR	Address of URI token
16	(10)	ADDRESS	4	ATREINT5URTOKENPTR	Address of UR Itoken
20	(14)	ADDRESS	4	ATREINT5CURRCONTEXTTOKENPTR	Address of current context token
24	(18)	ADDRESS	4	ATREINT5URIDPTR	Address of URID
28	(1C)	ADDRESS	4	ATREINT5INTERESTOPTIONS	Address of interest options
32	(20)	ADDRESS	4	ATREINT5NONPERSISTENTDATAPTR	Address of nonpersistent data
36	(24)	ADDRESS	4	ATREINT5CURRNONPDATAPTR	Address of current nonp data
40	(28)	ADDRESS	4	ATREINT5PDATALENGTHPTR	Address of persistent data length
44	(2C)	ADDRESS	4	ATREINT5PDATAPTR	Address of persistent data
48	(30)	ADDRESS	4	ATREINT5XIDLENGTHPTR	Address of XID length
52	(34)	ADDRESS	4	ATREINT5XIDPTR	Address of XID
56	(38)	ADDRESS	4	ATREINT5PARENTURTOKENPTR	Address of parent ur token
60	(3C)	ADDRESS	4	ATREINT5DIAGAREAPTR	Address of diagnostic area
64	(40)	ADDRESS	4	ATREINT5TRANMODEPTR	Address of transaction mode

Table 195. Structure ATR4EINTPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4EINTPARMLIST	
0	(0)	ADDRESS	8	ATR4EINTRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4EINTRMTOKENPTR	Address of resource manager token
16	(10)	ADDRESS	8	ATR4EINTCONTEXTTOKENPTR	Address of context token
24	(18)	ADDRESS	8	ATR4EINTURITOKENPTR	Address of URI token
32	(20)	ADDRESS	8	ATR4EINTURTOKENPTR	Address of UR Itoken
40	(28)	ADDRESS	8	ATR4EINTCURRCONTEXTTOKENPTR	Address of current context token
48	(30)	ADDRESS	8	ATR4EINTURIDPTR	Address of URID
56	(38)	ADDRESS	8	ATR4EINTINTERESTOPTIONS	Address of interest options
64	(40)	ADDRESS	8	ATR4EINTNONPERSISTENTDATAPTR	Address of nonpersistent data
72	(48)	ADDRESS	8	ATR4EINTCURRNONPDATAPTR	Address of current nonp data
80	(50)	ADDRESS	8	ATR4EINTPDATALENGTHPTR	Address of persistent data length
88	(58)	ADDRESS	8	ATR4EINTPDATAPTR	Address of persistent data
96	(60)	ADDRESS	8	ATR4EINTXIDLENGTHPTR	Address of XID length
104	(68)	ADDRESS	8	ATR4EINTXIDPTR	Address of XID
112	(70)	ADDRESS	8	ATR4EINTPARENTURTOKENPTR	Address of parent ur token
120	(78)	ADDRESS	8	ATR4EINTDIAGAREAPTR	Address of diagnostic area
128	(80)	ADDRESS	8	ATR4EINTTRANMODEPTR	Address of transaction mode

Table 196. Structure ATRSUSI2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSUSI2PARMLIST	
0	(0)	ADDRESS	4	ATRSUSI2RETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRSUSI2URORURITOKENPTR	Address of UR or URI Token
8	(8)	ADDRESS	4	ATRSUSI2ELEMENTCOUNTPTR	Address of element count
12	(C)	ADDRESS	4	ATRSUSI2SIDEINFOARRAYPTR	Address of side info array

Table 197. Structure ATR4SUSIPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4SUSIPARMLIST	
0	(0)	ADDRESS	8	ATR4SUSIRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4SUSIURORURITOKENPTR	Address of UR or URI Token
16	(10)	ADDRESS	8	ATR4SUSIELEMENTCOUNTPTR	Address of element count
24	(18)	ADDRESS	8	ATR4SUSISIDEINFOARRAYPTR	Address of side info array

Table 198. Structure ATRRUSI2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRRUSI2PARMLIST	
0	(0)	ADDRESS	4	ATRRUSI2RETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRRUSI2URORURITOKENPTR	Address of UR or URI Token
8	(8)	ADDRESS	4	ATRRUSI2ELEMENTCOUNTPTR	Address of element count
12	(C)	ADDRESS	4	ATRRUSI2SIDEINFOARRAYPTR	Address of side info array

Table 198. Structure ATRRUSI2PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	ADDRESS	4	ATRRUSI2SIDEINFOSTATEARRAYPTR	Address of side info state array

Table 199. Structure ATR4RUSIPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4RUSIPARMLIST	
0	(0)	ADDRESS	8	ATR4RUSIRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4RUSIURORURITOKENPTR	Address of UR or URI Token
16	(10)	ADDRESS	8	ATR4RUSIELEMENTCOUNTPTR	Address of element count
24	(18)	ADDRESS	8	ATR4RUSISIDEINFOARRAYPTR	Address of side info array
32	(20)	ADDRESS	8	ATR4RUSISIDEINFOSTATEARRAYPTR	Address of side info state array

Table 200. Structure ATRSWID2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSWID2PARMLIST	
0	(0)	ADDRESS	4	ATRSWID2RETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRSWID2URORURITOKENPTR	Address of UR or URI token
8	(8)	ADDRESS	4	ATRSWID2SETOPTIONPTR	Address of set option
12	(C)	ADDRESS	4	ATRSWID2UWIDTYPEPTR	Address of uwid type
16	(10)	ADDRESS	4	ATRSWID2UWIDLENPTR	Address of uwid length
20	(14)	ADDRESS	4	ATRSWID2UWIDDATAPTR	Address of uwid data

Table 201. Structure ATR4SWIDPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4SWIDPARMLIST	
0	(0)	ADDRESS	8	ATR4SWIDRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4SWIDURORURITOKENPTR	Address of UR or URI token
16	(10)	ADDRESS	8	ATR4SWIDSETOPTIONPTR	Address of set option
24	(18)	ADDRESS	8	ATR4SWIDUWIDTYPEPTR	Address of uwid type
32	(20)	ADDRESS	8	ATR4SWIDUWIDLENPTR	Address of uwid length
40	(28)	ADDRESS	8	ATR4SWIDUWIDDATAPTR	Address of uwid data

Table 202. Structure ATRRWID2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRRWID2PARMLIST	
0	(0)	ADDRESS	4	ATRRWID2RETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRRWID2URORURITOKENPTR	Address of UR or URI token
8	(8)	ADDRESS	4	ATRRWID2RETRIEVEOPTIONPTR	Address of retrieve option
12	(C)	ADDRESS	4	ATRRWID2GENERATEOPTIONPTR	Address of generate option
16	(10)	ADDRESS	4	ATRRWID2UWIDTYPEPTR	Address of uwid type
20	(14)	ADDRESS	4	ATRRWID2UWIDBUFFERLENPTR	Address of uwid buffer length
24	(18)	ADDRESS	4	ATRRWID2UWIDLENPTR	Address of uwid length
28	(1C)	ADDRESS	4	ATRRWID2UWIDDATAPTR	Address of uwid data

Table 203. Structure ATR4RWIDPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4RWIDPARMLIST	
0	(0)	ADDRESS	8	ATR4RWIDRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4RWIDURORURITOKENPTR	Address of UR or URI token
16	(10)	ADDRESS	8	ATR4RWIDRETRIEVEOPTIONPTR	Address of retrieve option
24	(18)	ADDRESS	8	ATR4RWIDGENERATEOPTIONPTR	Address of generate option
32	(20)	ADDRESS	8	ATR4RWIDUWIDTYPEPTR	Address of uwid type
40	(28)	ADDRESS	8	ATR4RWIDUWIDBUFFERLENPTR	Address of uwid buffer length
48	(30)	ADDRESS	8	ATR4RWIDUWIDLENPTR	Address of uwid length
56	(38)	ADDRESS	8	ATR4RWIDUWIDDATAPTR	Address of uwid data

Table 204. Structure ATRSPSP2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSPSP2PARMLIST	
0	(0)	ADDRESS	4	ATRSPSP2RETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRSPSP2URTOKENPTR	Address of UR token
8	(8)	ADDRESS	4	ATRSPSP2PETOKENPTR	Address of PE token

Table 205. Structure ATRDPSP2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRDPSP2PARMLIST	
0	(0)	ADDRESS	4	ATRDPSP2RETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRDPSP2URTOKENPTR	Address of UR token
8	(8)	ADDRESS	4	ATRDPSP2PETOKENPTR	Address of PE token

Table 206. Structure ATR4SPSPPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4SPSPPARMLIST	
0	(0)	ADDRESS	8	ATR4SPSPRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4SPSPURTOKENPTR	Address of UR token
16	(10)	ADDRESS	8	ATR4SPSPPETOKENPTR	Address of PE token

Table 207. Structure ATR4DPSPPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4DPSPPARMLIST	
0	(0)	ADDRESS	8	ATR4DPSPRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4DPSPURTOKENPTR	Address of UR token
16	(10)	ADDRESS	8	ATR4DPSPPETOKENPTR	Address of PE token

Table 208. Structure ATREINT1PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATREINT1PARMLIST	
0	(0)	ADDRESS	4	ATREINT1RETURNCODEPTR	Address of return code

Table 208. Structure ATREINT1PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	ADDRESS	4	ATREINT1RMTOKENPTR	Address of resource manager token
8	(8)	ADDRESS	4	ATREINT1CONTEXTTOKENPTR	Address of context token
12	(C)	ADDRESS	4	ATREINT1URITOKENPTR	Address of URI token
16	(10)	ADDRESS	4	ATREINT1CURRCONTEXTTOKENPTR	Address of current context token
20	(14)	ADDRESS	4	ATREINT1URIDPTR	Address of URID
24	(18)	ADDRESS	4	ATREINT1MULTIPLEINTERESTOPTION	Address of multiple interest option
28	(1C)	ADDRESS	4	ATREINT1INTERESTTYPEPTR	Address of interest type
32	(20)	ADDRESS	4	ATREINT1FAILUREACTIONPTR	Address of failure action
36	(24)	ADDRESS	4	ATREINT1TWOPHASEPROTOCOLPTR	Address of two phase protocol
40	(28)	ADDRESS	4	ATREINT1NONPERSISTENTDATAPTR	Address of nonpersistent data
44	(2C)	ADDRESS	4	ATREINT1CURRNONPDATAPTR	Address of current nonp data
48	(30)	ADDRESS	4	ATREINT1PDATALENGTHPTR	Address of persistent data length
52	(34)	ADDRESS	4	ATREINT1PDATAPTR	Address of persistent data
56	(38)	ADDRESS	4	ATREINT1XIDLENGTHPTR	Address of XID length
60	(3C)	ADDRESS	4	ATREINT1XIDPTR	Address of XID

Table 209. Structure ATRABCKPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRABCKPARMLIST	
0	(0)	ADDRESS	4	ATRABCKRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRABCKURITOKENPTR	Address of URI token
8	(8)	ADDRESS	4	ATRABCKLOGOPTIONPTR	Address of log option

Table 210. Structure ATR4ABAKPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4ABAKPARMLIST	
0	(0)	ADDRESS	8	ATR4ABAKRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4ABAKURITOKENPTR	Address of URI token
16	(10)	ADDRESS	8	ATR4ABAKLOGOPTIONPTR	Address of log option

Table 211. Structure ATRACMTPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRACMTPARMLIST	
0	(0)	ADDRESS	4	ATRACMTRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRACMTURITOKENPTR	Address of URI token
8	(8)	ADDRESS	4	ATRACMTLOGOPTIONPTR	Address of log option

Table 212. Structure ATR4ACMTPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4ACMTPARMLIST	
0	(0)	ADDRESS	8	ATR4ACMTRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4ACMTURITOKENPTR	Address of URI token
16	(10)	ADDRESS	8	ATR4ACMTLOGOPTIONPTR	Address of log option

Table 213. Structure ATRADCTPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRADCTPARMLIST	
0	(0)	ADDRESS	4	ATRADCTRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRADCTURITOKENPTR	Address of URI token
8	(8)	ADDRESS	4	ATRADCTLOGOPTIONPTR	Address of log option

Table 214. Structure ATRADCT1PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRADCT1PARMLIST	
0	(0)	ADDRESS	4	ATRADCT1RETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRADCT1URITOKENPTR	Address of URI token
8	(8)	ADDRESS	4	ATRADCT1LOGOPTIONPTR	Address of log option
12	(C)	ADDRESS	4	ATRADCT1COMMITOPTIONSPTR	Address of commit options

Table 215. Structure ATR4ADCTPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4ADCTPARMLIST	
0	(0)	ADDRESS	8	ATR4ADCTRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4ADCTURITOKENPTR	Address of URI token
16	(10)	ADDRESS	8	ATR4ADCTLOGOPTIONPTR	Address of log option
24	(18)	ADDRESS	8	ATR4ADCTCOMMITOPTIONSPTR	Address of commit options

Table 216. Structure ATRAFGTPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRAFGTPARMLIST	
0	(0)	ADDRESS	4	ATRAFGTRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRAFGTURITOKENPTR	Address of URI token
8	(8)	ADDRESS	4	ATRAFGTLOGOPTIONPTR	Address of log option

Table 217. Structure ATR4AFGTPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4AFGTPARMLIST	
0	(0)	ADDRESS	8	ATR4AFGTRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4AFGTURITOKENPTR	Address of URI token
16	(10)	ADDRESS	8	ATR4AFGTLOGOPTIONPTR	Address of log option

ATRRASM mapping

Table 218. Structure ATRAPRPPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRAPRPPARMLIST	
0	(0)	ADDRESS	4	ATRAPRPRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRAPRPURITOKENPTR	Address of URI token
8	(8)	ADDRESS	4	ATRAPRPLOGOPTIONPTR	Address of log option

Table 219. Structure ATR4APRPPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4APRPPARMLIST	
0	(0)	ADDRESS	8	ATR4APRPRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4APRPURITOKENPTR	Address of URI token
16	(10)	ADDRESS	8	ATR4APRPLOGOPTIONPTR	Address of log option

Table 220. Structure ATRXPARMEXITFLAGS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRXPARMEXITFLAGS	
0	(0)	BITSTRING	1	ATRXPARMEXITFLAGSBYTE1	Byte1 of Exit Flags
		1...		ATRXFLAGRESTARTINTEREST	"X'80'" This exit was invoked for a restart expression of interest.
		.1..		ATRXFLAGTERMINATINGSYNCPOINT	"X'40'" Terminating Syncpoint in progress. RRS/MVS has issued an implicit commit or backout because the context is terminating. There cannot be any more new URs for this context.
		..1.		ATRXFLAGRESOLVEDBYINSTALLATION	"X'20'" Indicates the In-Doubt state of this UR was resolved by the installation (e.g. by forcing a COMMIT or BACKOUT decision via the RRS/MVS ISPF interface.
		...1		ATRXFLAGHEURISTICMIXED	"X'10'" Indicates that a Hueristic mixed condition was detected for this UR.
		.... 1...		ATRXFLAGRESYNCINPROGRESS	"X'08'" Indicates that a Resync-In-Progress (RIP) condition is present for this UR.
		.... .1..		ATRXFLAGPREPARERESULTFORGET	"X'04'" Indicates that the prepare vote for this expression of interest was ABSTAIN, and the overall prepare vote result for the UR was FORGET.

Table 220. Structure ATRXPARMEXITFLAGS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		ATRXFLAGIMMEDIATEBACKOUT	"X'02'" Indicates that the backout operation was requested by the application and was not the result of a resource manager being unable to commit its resources.
		1		ATRXFLAGREDRIVELIMIT	"X'01'" Indicates that the STATE_CHECK redrive limit has been reached for this UR, so the ATRX_REDRIVE return code is not valid.
1	(1)	BITSTRING	1	ATRXPARMEXITFLAGSBYTE2	Byte2 of Exit Flags
		1...		ATRXFLAGCOMMIT	"X'80'" Indicates that the overall decision of this UR was to commit the UR.
		.1..		ATRXFLAGAPPLICATIONASYNCABEND	"X'40'"
		..1.		ATRXFLAGRETAININTINV	"X'20'"
		...1		ATRXFLAGCASCADEDUR	"X'10'"
		.... 11..		ATRXFLAGTRANSACTIONMODE	"X'0C'"
		.... ..1.		ATRXFLAGTERMINATINGSP_TERM	"X'02'"
2	(2)	BITSTRING	1	ATRXPARMEXITFLAGSBYTE3	Byte3 of Exit Flags
3	(3)	BITSTRING	1	ATRXPARMEXITFLAGSBYTE4	Byte4 of Exit Flags

Table 221. Structure ATRBEGPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRBEGPARMLIST	
0	(0)	ADDRESS	4	ATRBEGRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRBEGDIAGAREAPTR	Address of diagnostic area
8	(8)	ADDRESS	4	ATRBEGTRANMODEPTR	Address of transaction mode
12	(C)	ADDRESS	4	ATRBEGURTOKENPTR	Address of UR token
16	(10)	ADDRESS	4	ATRBEGURIDPTR	Address of URID

Table 222. Structure ATRENDPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRENDPARMLIST	
0	(0)	ADDRESS	4	ATRENDRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRENDDIAGAREAPTR	Address of diagnostic area
8	(8)	ADDRESS	4	ATRENDACTIONPTR	Address of action
12	(C)	ADDRESS	4	ATRENDCURRURTOKENPTR	Address of current UR token

Table 223. Structure ATRRUSFPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRRUSFPARMLIST	
0	(0)	ADDRESS	4	ATRRUSFRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRRUSFCONTEXTTOKENPTR	Address of context token
8	(8)	ADDRESS	4	ATRRUSFENVINFOPTR	Address of environment info

Table 224. Structure ATRRUSF1PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRRUSF1PARMLIST	
0	(0)	ADDRESS	4	ATRRUSF1RETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRRUSF1CONTEXTTOKENPTR	Address of context token
8	(8)	ADDRESS	4	ATRRUSF1ENVINFOPTR	Address of environment info
12	(C)	ADDRESS	4	ATRRUSF1SIDEINFOOPTIONSPTR	Address of side info options

Table 225. Structure ATRSENVPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSENVPARMLIST	
0	(0)	ADDRESS	4	ATRSENVRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRSENVDIAGAREAPTR	Address of diagnostic area
8	(8)	ADDRESS	4	ATRSENVSCOPEPTR	Address of env setting scope
12	(C)	ADDRESS	4	ATRSENVCONTEXTTOKENPTR	Address of context token
16	(10)	ADDRESS	4	ATRSENVSTOKENPTR	Address of Stoken
20	(14)	ADDRESS	4	ATRSENVELEMENTCOUNTPTR	Address of element count
24	(18)	ADDRESS	4	ATRSENVENVSETTINGIDPTR	Address of env setting id
28	(1C)	ADDRESS	4	ATRSENVENVSETTINGPTR	Address of env setting
32	(20)	ADDRESS	4	ATRSENVENVSETTINGPROCTPTR	Address of env setting protection

Table 226. Structure ATRRENVPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRRENVPARMLIST	
0	(0)	ADDRESS	4	ATRRENVRETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRRENVDIAGAREAPTR	Address of diagnostic area
8	(8)	ADDRESS	4	ATRRENVSCOPEPTR	Address of env setting scope
12	(C)	ADDRESS	4	ATRRENVCONTEXTTOKENPTR	Address of context token
16	(10)	ADDRESS	4	ATRRENVSTOKENPTR	Address of Stoken
20	(14)	ADDRESS	4	ATRRENVELEMENTCOUNTPTR	Address of element count
24	(18)	ADDRESS	4	ATRRENVENVSETTINGIDPTR	Address of env setting id
28	(1C)	ADDRESS	4	ATRRENVENVSETTINGPTR	Address of env setting
32	(20)	ADDRESS	4	ATRRENVENVSETTINGPROCTPTR	Address of env setting protection

Table 227. Structure ATRSDTAPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSDTAPARMLIST	
0	(0)	ADDRESS	4	ATRSDTARETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRSDTARMTOKENPTR	Address of RM token
8	(8)	ADDRESS	4	ATRSDTARMMETADATALENGTHPTR	Address of RM meta data length
12	(C)	ADDRESS	4	ATRSDTARMMETADATAPTR	Address of RM meta data

Table 228. Structure ATR4SDTAPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4SDTAPARMLIST	
0	(0)	ADDRESS	8	ATR4SDTARETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4SDTARMTOKENPTR	Address of RM token
16	(10)	ADDRESS	8	ATR4SDTARMMETADATALENGTHPTR	Address of RM meta data length
24	(18)	ADDRESS	8	ATR4SDTARMMETADATAPTR	Address of RM meta data

Table 229. Structure ATRRDTAPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRRDTAPARMLIST	
0	(0)	ADDRESS	4	ATRRDTARETURNCODEPTR	Address of return code
4	(4)	ADDRESS	4	ATRRDTARMTOKENPTR	Address of RM token
8	(8)	ADDRESS	4	ATRRDTARMMETADATABUFFERLENGTHPTR	Address of RM meta data buffer length
12	(C)	ADDRESS	4	ATRRDTARMMETADATALENGTHPTR	Address of RM meta data length
16	(10)	ADDRESS	4	ATRRDTARMMETADATAPTR	Address of RM meta data

Table 230. Structure ATR4RDTAPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4RDTAPARMLIST	
0	(0)	ADDRESS	8	ATR4RDTARETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4RDTARMTOKENPTR	Address of RM token
16	(10)	ADDRESS	8	ATR4RDTARMMETADATABUFFERLENGTHPTR	Address of RM meta data buffer length
24	(18)	ADDRESS	8	ATR4RDTARMMETADATALENGTHPTR	Address of RM meta data length
32	(20)	ADDRESS	8	ATR4RDTARMMETADATAPTR	Address of RM meta data

Table 231. Structure ATR4BEGPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4BEGPARMLIST	
0	(0)	ADDRESS	8	ATR4BEGRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4BEGDIAGAREAPTR	Address of diagnostic area
16	(10)	ADDRESS	8	ATR4BEGTRANMODEPTR	Address of transaction mode
24	(18)	ADDRESS	8	ATR4BEGURTOKENPTR	Address of UR token
32	(20)	ADDRESS	8	ATR4BEGURIDPTR	Address of URID

Table 232. Structure ATR4ENDPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4ENDPARMLIST	
0	(0)	ADDRESS	8	ATR4ENDRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4ENDDIAGAREAPTR	Address of diagnostic area

Table 232. Structure ATR4ENDPARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	ADDRESS	8	ATR4ENDACTIONPTR	Address of action
24	(18)	ADDRESS	8	ATR4ENDCURRURTOKENPTR	Address of current UR token

Table 233. Structure ATR4RUSFPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4RUSFPARMLIST	
0	(0)	ADDRESS	8	ATR4RUSFRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4RUSFCONTEXTTOKENPTR	Address of context token
16	(10)	ADDRESS	8	ATR4RUSFENVINFOPTR	Address of environment info
24	(18)	ADDRESS	8	ATR4RUSFSIDEINFOOPTIONSPTR	Address of side info options

Table 234. Structure ATR4SENVPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4SENVPARMLIST	
0	(0)	ADDRESS	8	ATR4SENVRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4SENVDIAGAREAPTR	Address of diagnostic area
16	(10)	ADDRESS	8	ATR4SENVSCOPEPTR	Address of env setting scope
24	(18)	ADDRESS	8	ATR4SENVCONTEXTTOKENPTR	Address of context token
32	(20)	ADDRESS	8	ATR4SENVSTOKENPTR	Address of Stoken
40	(28)	ADDRESS	8	ATR4SENVELEMENTCOUNTPTR	Address of element count
48	(30)	ADDRESS	8	ATR4SENVENVSETTINGIDPTR	Address of env setting id
56	(38)	ADDRESS	8	ATR4SENVENVSETTINGPTR	Address of env setting
64	(40)	ADDRESS	8	ATR4SENVENVSETTINGPROCTPTR	Address of env setting protection

Table 235. Structure ATR4RENVPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATR4RENVPARMLIST	
0	(0)	ADDRESS	8	ATR4RENVRETURNCODEPTR	Address of return code
8	(8)	ADDRESS	8	ATR4RENVDIAGAREAPTR	Address of diagnostic area
16	(10)	ADDRESS	8	ATR4RENVSCOPEPTR	Address of env setting scope
24	(18)	ADDRESS	8	ATR4RENVCONTEXTTOKENPTR	Address of context token
32	(20)	ADDRESS	8	ATR4RENVSTOKENPTR	Address of Stoken
40	(28)	ADDRESS	8	ATR4RENVELEMENTCOUNTPTR	Address of element count
48	(30)	ADDRESS	8	ATR4RENVENVSETTINGIDPTR	Address of env setting id
56	(38)	ADDRESS	8	ATR4RENVENVSETTINGPTR	Address of env setting
64	(40)	ADDRESS	8	ATR4RENVENVSETTINGPROCTPTR	Address of env setting protection

Table 236. Structure ATRRINST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRRINST	
0	(0)	CHARACTER	8	ATRRINST_EYECATCHER	
8	(8)	BITSTRING	1	ATRRINST_VERSIONNUMBER	

Table 236. Structure ATRRINST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
9	(9)	BITSTRING	3	ATRRINST_LENGTH	
12	(C)	ADDRESS	4	ATRRINST_SELFADDRESS	
16	(10)	BITSTRING	4	ATRRINST_INSTALLEDFUNCTIONFLAGS(0)	
16	(10)	BITSTRING	1	ATRRINST_INSTALLEDFUNCTIONBYTE1	Byte 1 of function flag
		1...		ATRLOCALTRANSACTIONSSUPPORTINSTALLED	"X'80'" Indicates that the RRS Local Transactions SPE is installed on this system.
		.1..		ATRMULTISYSTEMCASCADEDINSTALLED	"X'40'" Indicates that the RRS Multi-system cascaded Transactions are supported on this system.
		..1.		ATRSUBORDINATEFAILEDEXITSUPPORT	"X'20'" Indicates that resource managers can set a subordinate failed exit on this system
		...1		ATRRESTARTANYTIMESUPPORTED	"X'10'" Indicates that RRS supports RM restart anywhere on the plex where RRS is active.
		.... 1...		ATR64BITADDRESSABILITYSUPPORTED	"X'08'" Indicates that RRS supports 64 bit addressible callers.
		.... .1..		ATRCOMMITEXITTIERLEVELSUPPORTED	"X'04'" Indicates that RRS supports tier level scheduling of Commit exit routines.
		.... ..1.		ATREXITDEFERSUPPORT	"X'02'" Indicates that resource managers can defer its exits
		1		ATRATRQUERYPDATASUPPORTED	"X'01'" Indicates retrievel of Pi data is allowed on atrquery
17	(11)	BITSTRING	1	ATRRINST_INSTALLEDFUNCTIONBYTE2	Byte 2 of function flag
		1...		ATRDELETERMSUPPORTED	"X'80'" Indicates that RRS supports the deleting of RMs that don't have outstanding interests.
		.1..		ATRRMMETADATA8KSUPPORTED	"X'40'" Indicates that RRS supports 8K RM Meta Data.
		..1.		ATRPRE_PREPAREEXITSUPPORT	"X'20'" Indicates that RRS supports Pre-Prepare Exits.
		...1		ATRRMUNREGISTERSUPPORT	"X'10'" Indicates that RRS supports RM Unregister.
		.... 1...		ATRSRVFORGETSUPPORT	"X'08'" Indicates that RRS supports the Forgetting of URs through ATRSRV.
		.... .1..		ATRTERMINATINGSP_TERMSUPPORT	"X'04'" Indicates that RRS supports the new flag on the SyncPoint exits parmlist indicating that the call to CTXENDC was for termination

Table 236. Structure ATRRINST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
18	(12)	BITSTRING	1	ATRRINST_INSTALLEDFUNCTIONBYTE3	Byte 3 of function flag
19	(13)	BITSTRING	1	ATRRINST_INSTALLEDFUNCTIONBYTE4	Byte 4 of function flag
20	(14)	CHARACTER	12		RESERVED

Table 237. Cross Reference for ATRRASM

Name	Offset	Hex Tag
ATR_ABAK_NOT_ADDR	0	1A0001
ATR_ABAK_PRIM_ADDR	0	1A0000
ATR_ACMT_NOT_ADDR	0	1B0001
ATR_ACMT_PRIM_ADDR	0	1B0000
ATR_ACTION_INV	0	36B
ATR_ADCT_NOT_ADDR	0	220001
ATR_ADCT_PRIM_ADDR	0	220000
ATR_ADDRESS_SPACE_SCOPE	0	1
ATR_AFGT_NOT_ADDR	0	1C0001
ATR_AFGT_PRIM_ADDR	0	1C0000
ATR_AFTER_IN_PREPARE	0	745
ATR_AFTER_NEW_UR	0	73C
ATR_ALCC_NOT_ADDR	0	1E0001
ATR_ALCC_PRIM_ADDR	0	1E0000
ATR_ALL_DEFERRED	0	C
ATR_ALREADY_DEFERRED	0	B
ATR_APPL_COMPLETE	0	21
ATR_APPL_COMPLETE_INV	0	758
ATR_APPL_COMPLETE_INV_STATE	0	761
ATR_APRP_NOT_ADDR	0	1D0001
ATR_APRP_PRIM_ADDR	0	1D0000
ATR_ASCMODE_INV	0	101
ATR_ASYNC_ABEND	0	8
ATR_ASYNC_ABEND_RSN	0	9
ATR_ASYNC_MEMTERM	0	A
ATR_AUTH_FAILURE	0	3AB
ATR_AUTH_FAILURE_GENERATE_OPTION	0	3B5
ATR_AUTH_FAILURE_RETRIEVE_OPTION	0	3B4
ATR_BACKED_OUT	0	12C
ATR_BACKED_OUT_OUTCOME_MIXED	0	12E
ATR_BACKED_OUT_OUTCOME_PENDING	0	12D
ATR_BACKOUT_CODE_INV	0	394
ATR_BACKOUT_EXIT	0	5
ATR_BACKOUT_OK	0	0
ATR_BACKOUT_REQUIRED	0	1
ATR_BEG_NOT_ADDR	0	230001
ATR_BEG_PRIM_ADDR	0	230000
ATR_BREAK_TREE	0	10
ATR_CASCADED	0	1
ATR_CASCADED_TRANSACTION_MASK	0	2

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATR_CASCADED_UR	0	760
ATR_CASCADED_UR_DISALLOWS_COMMIT	0	756
ATR_CCUR_NOT_ADDR	0	1F0001
ATR_CCUR_PRIM_ADDR	0	1F0000
ATR_CHILD_AUTH_FAILURE	0	3A5
ATR_CHILD_CONTEXT_TOKEN_INV	0	39B
ATR_CHILD_DU_TERMINATING	0	39F
ATR_CHILD_UR_STATE_ERROR	0	744
ATR_COMMIT_ACTION	0	1
ATR_COMMIT_CODE_INV	0	374
ATR_COMMIT_EXIT	0	4
ATR_COMMIT_NO_PRIORITY	0	0
ATR_COMMIT_OK	0	0
ATR_COMMIT_OPTIONS_INV	0	3AE
ATR_COMMIT_TIER_ONE_MISMATCH	0	3B7
ATR_COMMIT_TIER_ONE_PRIORITY	0	20000
ATR_COMMIT_TIER_ONE_SRB_INV	0	3B3
ATR_COMMITTED	0	18
ATR_COMMITTED_OUTCOME_MIXED	0	66
ATR_COMMITTED_OUTCOME_PENDING	0	65
ATR_COMP_CODE_INV	0	379
ATR_COMPLETION_EXIT	0	8
ATR_CONDITIONAL	0	1
ATR_CONDITIONAL_INT_MASK	0	0
ATR_CONTEXT_SCOPE	0	2
ATR_CONTEXT_TOKEN_INV	0	361
ATR_CREATE_CASCADED_UR_MASK	0	1000
ATR_CREATE_OPTIONS_INV	0	3AD
ATR_CREATE_STANDARD_UR_MASK	0	0
ATR_CRGSEIF_VALUE_2	0	
ATR_CRGSEIF_VALUE_2_BYTE1	0	
ATR_CRGSEIF_VALUE_2_BYTE2	0	
ATR_CRGSEIF_VALUE_2_BYTE3	0	
ATR_CRGSEIF_VALUE_2_BYTE4	1	
ATR_CTOKEN_NOT_ZERO	0	803
ATR_CUR_UR_TOKEN_NOT_CURRENT	0	805
ATR_CURRENT	0	0
ATR_DEFAULT_SCOPE	0	3
ATR_DEFER	0	0
ATR_DEFER_EXPLICIT	0	1
ATR_DEFER_IMPLICIT	0	0
ATR_DEFER_MULT	0	1
ATR_DEFER_NOT_VALID	0	D
ATR_DEFER_SINGLE	0	2
ATR_DEFER_SRB_NOT_VALID	0	E
ATR_DINT_NOT_ADDR	0	10001
ATR_DINT_PRIM_ADDR	0	10000
ATR_DISTRIBUTED_SYNCPOINT_EXIT	0	3
ATR_DO_NOT_GENERATE	0	0

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATR_DONT_END_CONTEXT_MASK	0	0
ATR_DPSP_NOT_ADDR	0	210001
ATR_DPSP_PRIM_ADDR	0	210000
ATR_DRIVE_BACKOUT	0	11
ATR_DRIVE_BACKOUT_EXIT	0	FFF
ATR_DRIVE_COMMIT_EXIT	0	FFF
ATR_DRIVE_COMPLETION	0	14
ATR_DRIVE_PREPARE_EXIT	0	FFF
ATR_DSRM	0	2
ATR_DU_TERMINATING	0	36A
ATR_EF_ON_LATER_WITH_ASYNC	0	80
ATR_EID	0	1
ATR_EINT_NOT_ADDR	0	20001
ATR_EINT_PRIM_ADDR	0	20000
ATR_ELEMENT_COUNT_INV	0	392
ATR_EM_UNAVAILABLE	0	8009
ATR_EM_WRONG_STATE	0	8007
ATR_END_CONTEXT_MASK	0	100
ATR_END_NOT_ADDR	0	240001
ATR_END_PRIM_ADDR	0	240000
ATR_END_UR_EXIT	0	6
ATR_ENV_SETTING_ID_INV	0	364
ATR_ENV_SETTING_INV	0	365
ATR_ENVIRONMENT_INV	0	109
ATR_ENVIRONMENT_NOT_SET	0	0
ATR_EXIT_ABENDED	0	2
ATR_EXIT_ABENDED_RSN	0	7
ATR_EXIT_BACKOUT_NOT_SPECIFIED	0	8002
ATR_EXIT_COMMIT_NOT_SPECIFIED	0	8001
ATR_EXIT_EXIT_FAILED_NOT_SPECIFIED	0	8003
ATR_EXIT_FAILED_EXIT	0	7
ATR_EXIT_NUMBER_INV	0	378
ATR_EXIT_OPTS_RSRVD	0	7F
ATR_EXIT_PREPARE_NOT_SPECIFIED	0	8000
ATR_EXIT_RC_NOT_VALID	0	1
ATR_EXIT_TYPE_PC	0	2
ATR_EXIT_TYPE_PCS	0	4
ATR_EXIT_TYPE_SRB	0	1
ATR_EXTENDED_STATES	0	1
ATR_FAIL_FORGET	0	2
ATR_FAIL_FUTURE	0	1
ATR_FAIL_STANDARD	0	0
ATR_FAILURE_ACTION_INCORRECT	0	386
ATR_FAILURE_ACTION_INV	0	372
ATR_FLIGHT_OPTION_INV	0	396
ATR_FORGET	0	8
ATR_FORGET_NOT_REQUIRED	0	11
ATR_FORGET_NOT_VALID	0	6
ATR_FORGOTTEN	0	A

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATR_GEN_LUWID_NOT_ALLOWED_LOCAL	0	765
ATR_GEN_NOT_ALLOWED_EID	0	74D
ATR_GEN_NOT_ALLOWED_NO_LUNAME	0	748
ATR_GEN_NOT_ALLOWED_NO_URI_TOKEN	0	753
ATR_GEN_REQUIRED_XID	0	751
ATR_GEN_XID_NOT_ALLOWED_LOCAL	0	767
ATR_GENERATE	0	1
ATR_GENERATE_OPTION_INV	0	388
ATR_GLOBAL_MODE	0	1
ATR_GLOBAL_MODE_MASK	0	10000
ATR_HARDENED_DATA_LOST	0	F01
ATR_HEURISTIC_MIX	0	0
ATR_HYBRID_GLOBAL_MODE	0	3
ATR_HYBRID_GLOBAL_MODE_ERROR	0	804
ATR_HYBRID_GLOBAL_MODE_MASK	0	40000
ATR_IBRS_NOT_ADDR	0	30001
ATR_IBRS_PRIM_ADDR	0	30000
ATR_ID_CONFLICT	0	757
ATR_IERS_NOT_ADDR	0	40001
ATR_IERS_PRIM_ADDR	0	40000
ATR_IGNORE_SUBORDINATE_FAILURE_MASK	0	0
ATR_IMMED	0	0
ATR_IMMEDIATE	0	2
ATR_IMMEDIATE_BACKOUT	0	20
ATR_IN_BACKOUT	0	6
ATR_IN_COMMIT	0	5
ATR_IN_COMPLETION	0	9
ATR_IN_DOUBT	0	4
ATR_IN_END	0	7
ATR_IN_FLIGHT	0	1
ATR_IN_FORGET	0	B
ATR_IN_ONLY_AGENT	0	8
ATR_IN_PREPARE	0	3
ATR_IN_RESET	0	0
ATR_IN_STATE_CHECK	0	2
ATR_INTEREST_COUNT_MASK	0	1
ATR_INTEREST_OPTIONS_INV	0	3AC
ATR_INTEREST_TYPE_INV	0	371
ATR_INTERRUPT_STATUS_INV	0	103
ATR_INV_FOR_RESTART_INTEREST	0	73D
ATR_IRLN_NOT_ADDR	0	50001
ATR_IRLN_PRIM_ADDR	0	50000
ATR_IRNI_NOT_ADDR	0	60001
ATR_IRNI_PRIM_ADDR	0	60000
ATR_IRRI_NOT_ADDR	0	70001
ATR_IRRI_PRIM_ADDR	0	70000
ATR_ISLN_NOT_ADDR	0	80001
ATR_ISLN_PRIM_ADDR	0	80000
ATR_LAST_AGENT	0	1

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATR_LATER_INV	0	381
ATR_LOCAL_MODE	0	2
ATR_LOCAL_MODE_MASK	0	20000
ATR_LOCAL_TRAN_MODE_INV	0	764
ATR_LOCKS_HELD	0	105
ATR_LOG_OPT_INV	0	395
ATR_LUWID	0	0
ATR_LUWID_DATA_INV	0	393
ATR_LUWID_NOT_AVAILABLE	0	73F
ATR_MAX_EID_LENGTH	0	2C
ATR_MAX_LUWID_LENGTH	0	1A
ATR_MAX_PDATA_LENGTH	0	1000
ATR_MAX_RM_LOGNAME_LENGTH	0	40
ATR_MAX_RM_METADATA_LENGTH	0	2000
ATR_MAX_UR_LOG_DATA_EXCEEDED	0	749
ATR_MAX_XID_LENGTH	0	8C
ATR_MEMTERM	0	5
ATR_MIN_EID_LENGTH	0	C
ATR_MIN_LUWID_LENGTH	0	A
ATR_MIN_XID_LENGTH	0	D
ATR_MODE_INV	0	104
ATR_MULTIPLE_INTEREST_COUNT_MASK	0	40
ATR_MULTIPLE_INTEREST_OPTION_INV	0	391
ATR_MULTIPLE_INTERESTS	0	2
ATR_NEW_LUWID_PSH_UNACCEPTABLE	0	13
ATR_NEXT	0	1
ATR_NO_CASCADE_TO_PARENT	0	763
ATR_NO_COMPLETION_EXIT_SET	0	73E
ATR_NO_DIST_SYNC_EXIT	0	732
ATR_NO_FAMILY	0	0
ATR_NO_INTERESTS_MASK	0	1
ATR_NO_LUWID_GEN_FOR_UR	0	765
ATR_NO_MORE_INCOMPLETE_INTERESTS	0	4
ATR_NO_MORE_THAN_ONE_INTEREST	0	1
ATR_NO_SIDE_INFO_FOR_UR	0	766
ATR_NO_XID_GEN_FOR_UR	0	767
ATR_NORM_CTX_END_SETTING	0	2
ATR_NORMAL_INTEREST	0	0
ATR_NOT_ALLOWED_FOR_UR	0	764
ATR_NOT_AVAILABLE	0	F00
ATR_NOT_PROTECTED_INTEREST	0	730
ATR_NOT_RETRIEVED_INTEREST	0	741
ATR_NOT_SERVER_DSRM	0	74A
ATR_NOT_SET	0	0
ATR_NOTIFY_SUBORDINATE_FAILURE_MASK	0	200000
ATR_OK	0	0
ATR_OK_NO_CONTEXT	0	10
ATR_ONE_INTEREST_COUNT_MASK	0	20
ATR_ONLY_AGENT_EXIT	0	9

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATR_PARENT_AUTH_FAILURE	0	3A4
ATR_PARENT_DU_TERMINATING	0	39E
ATR_PARENT_LOCAL_TRAN_MODE_INV	0	763
ATR_PARENT_UR_STATE_ERROR	0	743
ATR_PARENT_UR_TOKEN_INV	0	39A
ATR_PARTIAL_PERSISTENT_DATA	0	5
ATR_PARTIAL_RM_LOGNAME	0	9
ATR_PARTIAL_RM_METADATA	0	B
ATR_PARTIAL_UWID_DATA	0	A
ATR_PARTICIPANT	0	0
ATR_PDUE_NOT_ADDR	0	90001
ATR_PDUE_PRIM_ADDR	0	90000
ATR_PERSIS_DATA_BUF_LEN_INV	0	37D
ATR_PERSISTENT_DATA_LEN_INV	0	376
ATR_PERSISTENT_DATA_NOT_ALLOWED	0	389
ATR_PET_AUTH_FAILURE	0	3A8
ATR_PET_INV	0	3A6
ATR_PET_NOT_ASSOCIATED	0	3AA
ATR_PET_OUTDATED	0	3A7
ATR_PET_SPACE_FAILURE	0	3A9
ATR_POST_NOT_PENDING	0	740
ATR_PRE_PREPARE_EXIT	0	B
ATR_PREFLIGHT	0	C
ATR_PREPARE_ABSTAIN	0	14
ATR_PREPARE_CODE_INCORRECT	0	387
ATR_PREPARE_CODE_INV	0	373
ATR_PREPARE_EXIT	0	2
ATR_PREPARE_OK	0	0
ATR_PRESUME_ABORT_MASK	0	10000
ATR_PRESUME_NOTHING_MASK	0	0
ATR_PRESUMED_ABORT	0	1
ATR_PRESUMED_NOTHING	0	0
ATR_PRESUMED_NOTHING_INVALID	0	762
ATR_PROGRAM_STATE_CHECK	0	C8
ATR_PROT_LOGGED	0	2
ATR_PROTECTED	0	1
ATR_PROTECTED_INT_MASK	0	0
ATR_PROTECTED_INTEREST	0	739
ATR_PROTECTED_SETTING	0	2
ATR_PROTLEVEL_INV	0	36C
ATR_RC_INCORRECT_AFTER_POST	0	4
ATR_RDTA_NOT_ADDR	0	290001
ATR_RDTA_PRIM_ADDR	0	290000
ATR_REDRIVE_LIMIT	0	3
ATR_REIC_NOT_ADDR	0	A0001
ATR_REIC_PRIM_ADDR	0	A0000
ATR_REMOVE_INT_ON_FAIL_MASK	0	100000
ATR_REMOVE_SDSRM_INTEREST_MASK	0	0
ATR_RENV_NOT_ADDR	0	270001

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATR_RENV_PRIM_ADDR	0	270000
ATR_REQUESTED_WID_UNAVAILABLE	0	7
ATR_RESET_APPL_COMPLETE	0	22
ATR_RESET_STATE	0	6
ATR_RESOLVED_BY_INSTALLATION	0	16
ATR_RESPOND_COMPLETE	0	1
ATR_RESPOND_CONTINUE	0	0
ATR_RESPOND_CONTINUE_REQUIRED	0	750
ATR_RESPONSE_CODE_INCORRECT	0	385
ATR_RESPONSE_CODE_INV	0	384
ATR_RESPONSE_NOT_PENDING	0	742
ATR_RESTART_COMPLETE_STATE	0	3
ATR_RESTART_IN_PROGRESS_STATE	0	7
ATR_RESTART_INCOMPLETE	0	73A
ATR_RESTART_INTEREST	0	1
ATR_RESTART_STATE	0	2
ATR_RESTART_WRONG_SYSTEM	0	F02
ATR_RESYNC_IN_PROGRESS	0	12
ATR_RETRIEVE_NEXT_EID_INV	0	754
ATR_RETRIEVE_NEXT_XID_INV	0	755
ATR_RETRIEVE_OPTION_INV	0	37E
ATR_RID_NOT_ADDR	0	B0001
ATR_RID_PRIM_ADDR	0	B0000
ATR_RM_ACTIVE_ON_ANOTHER_SYSTEM	0	8004
ATR_RM_ALREADY_HAS_INTEREST	0	8
ATR_RM_ATTR_INCORRECT	0	738
ATR_RM_COORD_OK_MASK	0	2
ATR_RM_EXITS_UNSET	0	702
ATR_RM_GROUP_RRS_DOWNLEVEL	0	F07
ATR_RM_IS_THE_SDSRM	0	748
ATR_RM_LOGNAME_BUF_LEN_INV	0	37C
ATR_RM_LOGNAME_INV	0	37A
ATR_RM_LOGNAME_LEN_INV	0	37B
ATR_RM_LOGNAME_NOT_SET	0	6
ATR_RM_METADATA_BUFFER_LEN_INV	0	38B
ATR_RM_METADATA_LEN_INV	0	38A
ATR_RM_METADATA_LOG_UNAVAILABLE	0	38C
ATR_RM_METADATA_MISSING_DATA	0	38E
ATR_RM_METADATA_UNSUPPORTED	0	800A
ATR_RM_NEW_KEY_INV	0	8005
ATR_RM_OPTS_RSRVD	0	3F
ATR_RM_STATE_ERROR	0	701
ATR_RM_TOKEN_INV	0	301
ATR_RM_WRONG_STATE	0	8008
ATR_RM_8K_METADATA_NOT_ALLOWED	0	38D
ATR_ROLE_CHANGE_AFTER_SYNC	0	74F
ATR_ROLE_ERROR_CASCADED_UR	0	759
ATR_ROLE_INCORRECT	0	746
ATR_ROLE_INV	0	390

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATR_ROLLBACK_ACTION	0	2
ATR_RRS_MUST_COORD_MASK	0	4
ATR_RRS_STOKEN	0	
ATR_RRS_STOKEN_NAME	0	C1E3D9D9
ATR_RUN_STATE	0	4
ATR_RURD_NOT_ADDR	0	C0001
ATR_RURD_PRIM_ADDR	0	C0000
ATR_RUSI_NOT_ADDR	0	D0001
ATR_RUSI_PRIM_ADDR	0	D0000
ATR_RWID_NOT_ADDR	0	E0001
ATR_RWID_PRIM_ADDR	0	E0000
ATR_SAME_CHILD_CONTEXT_INV	0	3A2
ATR_SAME_CURRENT_CONTEXT_INV	0	3A0
ATR_SAME_PARENT_CONTEXT_INV	0	3A1
ATR_SCOPE_INV	0	366
ATR_SDSRM	0	3
ATR_SDSRM_DISALLOWS_COMMIT	0	74C
ATR_SDSRM_INITIATED	0	15
ATR_SDTA_NOT_ADDR	0	280001
ATR_SDTA_PRIM_ADDR	0	280000
ATR_SEIF_PARM_NOT_ADDR	0	8006
ATR_SEIF_REMD_BAD_RC	0	150000
ATR_SEIF_SEMD_BAD_RC	0	150001
ATR_SENV_NOT_ADDR	0	260001
ATR_SENV_PRIM_ADDR	0	260000
ATR_SET_NEXT_EID_INV	0	74E
ATR_SET_NEXT_XID_INV	0	752
ATR_SET_OPTION_INV	0	37F
ATR_SET_STATE	0	1
ATR_SETTING_PROTECTED	0	801
ATR_SI_GLOBAL_MODE	0	24
ATR_SI_LOCAL_MODE	0	23
ATR_SIDE_INFO_ID_INV	0	383
ATR_SIDE_INFO_ID_LOCAL_INV	0	766
ATR_SIDE_INFORMATION_OPTIONS_INVALID	0	3AF
ATR_SIDE_VALUE_NOT_SET	0	0
ATR_SIDE_VALUE_SET	0	1
ATR_SIT_NOT_ADDR	0	F0001
ATR_SIT_PRIM_ADDR	0	F0000
ATR_SPID_NOT_ADDR	0	100001
ATR_SPID_PRIM_ADDR	0	100000
ATR_SPSP_NOT_ADDR	0	200001
ATR_SPSP_PRIM_ADDR	0	200000
ATR_SROI_ALREADY_DONE	0	736
ATR_SROI_NOT_ADDR	0	110001
ATR_SROI_PRIM_ADDR	0	110000
ATR_SSPC_NOT_ADDR	0	120001
ATR_SSPC_PRIM_ADDR	0	120000
ATR_SSPC_ROLE_ERROR_DSRM	0	733

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATR_SSPC_ROLE_ERROR_LAST_AGENT	0	734
ATR_SSPC_ROLE_ERROR_SERVER_DSRM	0	74B
ATR_STANDARD_COMMIT_MASK	0	0
ATR_STANDARD_FAIL_MASK	0	0
ATR_STANDARD_STATES	0	0
ATR_STANDARD_XID_MASK	0	0
ATR_STATE_CHECK_EXIT	0	1
ATR_STATES_OPTION_INV	0	398
ATR_STKN_TOKEN	0	
ATR_STOKEN_INV	0	362
ATR_STOKEN_NOT_ZERO	0	802
ATR_SUBORDINATE_FAILED_EXIT	0	A
ATR_SUBORDINATE_FAILED_EXIT_INV	0	3B2
ATR_SUBORDINATE_FAILED_EXIT_NOT_DEFINED	0	3B1
ATR_SUPPORTS_LOCAL_TRAN_MODE	0	80
ATR_SUSI_NOT_ADDR	0	130001
ATR_SUSI_PRIM_ADDR	0	130000
ATR_SWID_NOT_ADDR	0	140001
ATR_SWID_PRIM_ADDR	0	140000
ATR_TERM_SYNCPOINT	0	17
ATR_TERMINATING_SYNCPOINT	0	747
ATR_TOKEN_LEVEL	8	
ATR_TOKEN_LEVEL_VALUE	0	1
ATR_TRAN_MODE_INV	0	363
ATR_TRAN_MODE_SETTING	0	1
ATR_TWO_PHASE_PROTOCOL_INV	0	375
ATR_UNCOND_INT_MASK	0	0
ATR_UNCONDITIONAL	0	0
ATR_UNEXPECTED_CTX_ERROR	0	F05
ATR_UNEXPECTED_ERROR	0	FFF
ATR_UNEXPECTED_UR_ERROR	0	F04
ATR_UNPROT_INT_MASK	0	0
ATR_UNPROTECTED	0	0
ATR_UNPROTECTED_SETTING	0	1
ATR_UNSET_IN_PROGRESS_STATE	0	5
ATR_UNSET_STATE	0	0
ATR_UNSUPPORTED_RELEASE	0	107
ATR_UR_CASCADED_MASK	0	200
ATR_UR_FAMILY_OPTION_INV	0	399
ATR_UR_RESOLVED_BY_INSTALLATION	0	F03
ATR_UR_STATE_ERROR	0	731
ATR_UR_STATE_IN_RESET_MASK	0	100
ATR_UR_TOKEN_INV	0	3A3
ATR_URI_TOKEN_INV	0	370
ATR_USE_BQUAL_MASK	0	10
ATR_USE_FORMATID_MASK	0	8
ATR_UWID_ALREADY_SET	0	735
ATR_UWID_BUF_LEN_INV	0	382
ATR_UWID_LEN_INV	0	377

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATR_UWID_TYPE_INV	0	380
ATR_WAS_NOT_AVAILABLE	0	F06
ATR_XID	0	2
ATR_XID_DATA_INV	0	397
ATR_XID_EXISTS	0	3B0
ATR_XID_INV	0	39D
ATR_XID_LENGTH_INV	0	39C
ATR_XID_NO_GLOBAL_MATCH	0	769
ATR_ZERO_INTEREST_COUNT_MASK	0	10
ATR_8K_RM_METADATA_LENGTH	0	2000
ATR_8K_RM_METADATA_REQUESTED	0	40
ATRABCKLOGOPTIONPTR	8	
ATRABCKPARMLIST	0	
ATRABCKRETURNCODEPTR	0	
ATRABCKURITOKENPTR	4	
ATRACMTLOGOPTIONPTR	8	
ATRACMTPARMLIST	0	
ATRACMTRETURNCODEPTR	0	
ATRACMTURITOKENPTR	4	
ATRADCTLOGOPTIONPTR	8	
ATRADCTPARMLIST	0	
ATRADCTRETURNCODEPTR	0	
ATRADCTURITOKENPTR	4	
ATRADCT1COMMITOPTIONSPTR	C	
ATRADCT1LOGOPTIONPTR	8	
ATRADCT1PARMLIST	0	
ATRADCT1RETURNCODEPTR	0	
ATRADCT1URITOKENPTR	4	
ATRAFGTLOGOPTIONPTR	8	
ATRAFGTPARMLIST	0	
ATRAFGTRETURNCODEPTR	0	
ATRAFGTURITOKENPTR	4	
ATRAPRPLOGOPTIONPTR	8	
ATRAPRPPARMLIST	0	
ATRAPRPRETURNCODEPTR	0	
ATRAPRPURITOKENPTR	4	
ATRATRQUERYPDATASUPPORTED	10	1
ATRBACKPARMLIST	0	
ATRBACKRETURNCODEPTR	0	
ATRBEGDIAGAREAPTR	4	
ATRBEGPARMLIST	0	
ATRBEGRETURNCODEPTR	0	
ATRBEGTRANMODEPTR	8	
ATRBEGURIDPTR	10	
ATRBEGURTOKENPTR	C	
ATRCCUR2CHILDCONTEXTTOKENPTR	8	
ATRCCUR2CHILDURID	10	
ATRCCUR2CHILDURTOKEN	C	
ATRCCUR2PARENTURTOKENPTR	4	

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATRCCUR2PARMLIST	0	
ATRCCUR2RETURNCODEPTR	0	
ATRCCUR3CHILDCONTEXTTOKENPTR	8	
ATRCCUR3CHILDURID	10	
ATRCCUR3CHILDURTOKEN	C	
ATRCCUR3CREATEOPTIONS	14	
ATRCCUR3PARENTURTOKENPTR	4	
ATRCCUR3PARMLIST	0	
ATRCCUR3RETURNCODEPTR	0	
ATRCMITPARMLIST	0	
ATRCMITRETURNCODEPTR	0	
ATRCOMMITEXITTIERLEVELSUPPORTED	10	4
ATRDELETERMSUPPORTED	11	80
ATRDINTPARMLIST	0	
ATRDINTRETURNCODEPTR	0	
ATRDINTURITOKENPTR	4	
ATRDPSP2PARMLIST	0	
ATRDPSP2PETOKENPTR	8	
ATRDPSP2RETURNCODEPTR	0	
ATRDPSP2URTOKENPTR	4	
ATREINTCONTEXTTOKENPTR	8	
ATREINTCURRCONTEXTTOKENPTR	10	
ATREINTCURRNONPDATAPTR	2C	
ATREINTFAILUREACTIONPTR	20	
ATREINTINTERESTTYPEPTR	1C	
ATREINTMULTIPLEINTERESTOPTION	18	
ATREINTNONPERSISTENTDATAPTR	28	
ATREINTPARMLIST	0	
ATREINTPDATALENGTHPTR	30	
ATREINTPDATAPTR	34	
ATREINTRETURNCODEPTR	0	
ATREINTRMTOKENPTR	4	
ATREINTTWOPHASEPROTOCOLPTR	24	
ATREINTURIDPTR	14	
ATREINTURITOKENPTR	C	
ATREINT1CONTEXTTOKENPTR	8	
ATREINT1CURRCONTEXTTOKENPTR	10	
ATREINT1CURRNONPDATAPTR	2C	
ATREINT1FAILUREACTIONPTR	20	
ATREINT1INTERESTTYPEPTR	1C	
ATREINT1MULTIPLEINTERESTOPTION	18	
ATREINT1NONPERSISTENTDATAPTR	28	
ATREINT1PARMLIST	0	
ATREINT1PDATALENGTHPTR	30	
ATREINT1PDATAPTR	34	
ATREINT1RETURNCODEPTR	0	
ATREINT1RMTOKENPTR	4	
ATREINT1TWOPHASEPROTOCOLPTR	24	
ATREINT1URIDPTR	14	

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATREINT1URITOKENPTR	C	
ATREINT1XIDLENGTHPTR	38	
ATREINT1XIDPTR	3C	
ATREINT2CONTEXTTOKENPTR	8	
ATREINT2CURRCONTEXTTOKENPTR	10	
ATREINT2CURRNONPDATAPTR	2C	
ATREINT2FAILUREACTIONPTR	20	
ATREINT2INTERESTTYPEPTR	1C	
ATREINT2MULTIPLEINTERESTOPTION	18	
ATREINT2NONPERSISTENTDATAPTR	28	
ATREINT2PARENTURTOKENPTR	44	
ATREINT2PARMLIST	0	
ATREINT2PDATALENGTHPTR	30	
ATREINT2PDATAPTR	34	
ATREINT2RETURNCODEPTR	0	
ATREINT2RMTOKENPTR	4	
ATREINT2TWOPHASEPROTOCOLPTR	24	
ATREINT2URFAMILYOPTIONPTR	40	
ATREINT2URIDPTR	14	
ATREINT2URITOKENPTR	C	
ATREINT2XIDLENGTHPTR	38	
ATREINT2XIDPTR	3C	
ATREINT3CONTEXTTOKENPTR	8	
ATREINT3CURRCONTEXTTOKENPTR	10	
ATREINT3CURRNONPDATAPTR	2C	
ATREINT3DIAGAREAPTR	40	
ATREINT3FAILUREACTIONPTR	20	
ATREINT3INTERESTTYPEPTR	1C	
ATREINT3MULTIPLEINTERESTOPTION	18	
ATREINT3NONPERSISTENTDATAPTR	28	
ATREINT3PARMLIST	0	
ATREINT3PDATALENGTHPTR	30	
ATREINT3PDATAPTR	34	
ATREINT3RETURNCODEPTR	0	
ATREINT3RMTOKENPTR	4	
ATREINT3TRANMODEPTR	44	
ATREINT3TWOPHASEPROTOCOLPTR	24	
ATREINT3URIDPTR	14	
ATREINT3URITOKENPTR	C	
ATREINT3XIDLENGTHPTR	38	
ATREINT3XIDPTR	3C	
ATREINT4CONTEXTTOKENPTR	8	
ATREINT4CURRCONTEXTTOKENPTR	10	
ATREINT4CURRNONPDATAPTR	2C	
ATREINT4DIAGAREAPTR	48	
ATREINT4FAILUREACTIONPTR	20	
ATREINT4INTERESTTYPEPTR	1C	
ATREINT4MULTIPLEINTERESTOPTION	18	
ATREINT4NONPERSISTENTDATAPTR	28	

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATREINT4PARENTURTOKENPTR	44	
ATREINT4PARMLIST	0	
ATREINT4PDATALENGTHPTR	30	
ATREINT4PDATAPTR	34	
ATREINT4RETURNCODEPTR	0	
ATREINT4RMTOKENPTR	4	
ATREINT4TRANMODEPTR	4C	
ATREINT4TWOPHASEPROTOCOLPTR	24	
ATREINT4URFAMILYOPTIONPTR	40	
ATREINT4URIDPTR	14	
ATREINT4URITOKENPTR	C	
ATREINT4XIDLENGTHPTR	38	
ATREINT4XIDPTR	3C	
ATREINT5CONTEXTTOKENPTR	8	
ATREINT5CURRCONTEXTTOKENPTR	14	
ATREINT5CURRNONPDATAPTR	24	
ATREINT5DIAGAREAPTR	3C	
ATREINT5INTERESTOPTIONS	1C	
ATREINT5NONPERSISTENTDATAPTR	20	
ATREINT5PARENTURTOKENPTR	38	
ATREINT5PARMLIST	0	
ATREINT5PDATALENGTHPTR	28	
ATREINT5PDATAPTR	2C	
ATREINT5RETURNCODEPTR	0	
ATREINT5RMTOKENPTR	4	
ATREINT5TRANMODEPTR	40	
ATREINT5URIDPTR	18	
ATREINT5URITOKENPTR	C	
ATREINT5URTOKENPTR	10	
ATREINT5XIDLENGTHPTR	30	
ATREINT5XIDPTR	34	
ATRENDACTIONPTR	8	
ATRENDCURRURTOKENPTR	C	
ATRENDDIAGAREAPTR	4	
ATRENDPARMLIST	0	
ATRENDRETURNCODEPTR	0	
ATREXITDEFERSUPPORT	10	2
ATRIBRSPARMLIST	0	
ATRIBRSRETURNCODEPTR	0	
ATRIBRSRMTOKENPTR	4	
ATRIERSPARMLIST	0	
ATRIERSRETURNCODEPTR	0	
ATRIERSRMTOKENPTR	4	
ATRIRLNPARMLIST	0	
ATRIRLNRETURNCODEPTR	0	
ATRIRLNRMLOGNAMEBUFLENPTR	8	
ATRIRLNRMLOGNAMELENGTHPTR	C	
ATRIRLNRMLOGNAMEPTR	10	
ATRIRLNRMTOKENPTR	4	

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATRIRLNRRSLOGNAMELENGTHPTR	14	
ATRIRLNRRSLOGNAMEPTR	18	
ATRIRNICONTEXTTOKENPTR	8	
ATRIRNIPARMLIST	0	
ATRIRNIPDATABUFFERLENGTHPTR	1C	
ATRIRNIPDATALENGTHPTR	20	
ATRIRNIPDATAPTR	24	
ATRIRNIRETURNCODEPTR	0	
ATRIRNIRMTOKENPTR	4	
ATRIRNIROLEPTR	14	
ATRIRNIURIDPTR	10	
ATRIRNIURITOKENPTR	C	
ATRIRNIURSTATEPTR	18	
ATRIRRINONPERSISTENTDATAPTR	C	
ATRIRRIPARMLIST	0	
ATRIRRIRESPONSECODEPTR	8	
ATRIRRIRETURNCODEPTR	0	
ATRIRRIURITOKENPTR	4	
ATRISLNPARMLIST	0	
ATRISLNRETURNCODEPTR	0	
ATRISLNRMLOGNAMELENGTHPTR	8	
ATRISLNRMLOGNAMEPTR	C	
ATRISLNRMTOKENPTR	4	
ATRLOCALTRANSACTIONSSUPPORTINSTALLED	10	80
ATRMULTISYSTEMCASCADEDINSTALLED	10	40
ATRPDUECOMPLETIONCODEPTR	C	
ATRPDUEEXITNUMBERPTR	8	
ATRPDUEPARMLIST	0	
ATRPDUERETURNCODEPTR	0	
ATRPDUEURITOKENPTR	4	
ATRPETRELCODE	0	
ATRPRE_PREPAREEXITSUPPORT	11	20
ATRRCDOERESYNCINPROGRESS	1	8
ATRRCODEBYTE1	0	
ATRRCODEBYTE2	1	
ATRRCODEBYTE3	2	
ATRRCODECASCADEDUR	2	10
ATRRCODECOMMIT	2	80
ATRRCODEHEURISTICMIXED	1	10
ATRRCODEIMMEDIATEBACKOUT	1	2
ATRRCODENONRRS	0	80
ATRRCODEPREPARERESULTFORGET	1	4
ATRRCODERESOLVEDBYINSTALLATION	1	20
ATRRCODERRSFAILED	0	40
ATRRCODETERMINATINGSYNCPOINT	1	40
ATRRCODETRANSACTIONMODE	2	C
ATRRDTAPARMLIST	0	
ATRRDTARETURNCODEPTR	0	
ATRRDTARMMETADATABUFFERLENGTHPTR	8	

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATRRDTARMMETADATALENGTHPTR	C	
ATRRDTARMMETADATAPTR	10	
ATRRDTARMTOKENPTR	4	
ATRREICCONTEXTTOKENPTR	4	
ATRREICINTERESTCOUNTINFOPTR	8	
ATRREICPARMLIST	0	
ATRREICRETURNCODEPTR	0	
ATRRENVCONTEXTTOKENPTR	C	
ATRRENVDIAGAREAPTR	4	
ATRRENVELEMENTCOUNTPTR	14	
ATRRENVENVSETTINGIDPTR	18	
ATRRENVENVSETTINGPROCTPTR	20	
ATRRENVENVSETTINGPTR	1C	
ATRRENVPARMLIST	0	
ATRRENVRETURNCODEPTR	0	
ATRRENVSCOPEPTR	8	
ATRRENVSTOKENPTR	10	
ATRRESTARTANYTIMESUPPORTED	10	10
ATRRIDEXPOFINTTYPEPTR	1C	
ATRRIDINTERESTTYPEPTR	18	
ATRRIDNONPERSISTENTDATAPTR	8	
ATRRIDPARMLIST	0	
ATRRIDPDATABUFFERLENGTHPTR	C	
ATRRIDPDATALENGTHPTR	10	
ATRRIDPDATAPTR	14	
ATRRIDRETURNCODEPTR	0	
ATRRIDROLEPTR	20	
ATRRIDURITOKENPTR	4	
ATRRINST	0	
ATRRINST_EYECATCHER	0	
ATRRINST_INSTALLEDFUNCTIONBYTE1	10	
ATRRINST_INSTALLEDFUNCTIONBYTE2	11	
ATRRINST_INSTALLEDFUNCTIONBYTE3	12	
ATRRINST_INSTALLEDFUNCTIONBYTE4	13	
ATRRINST_INSTALLEDFUNCTIONFLAGS	10	
ATRRINST_LENGTH	9	
ATRRINST_SELFADDRESS	C	
ATRRINST_VERSIONNUMBER	8	
ATRRMMETADATA8KSUPPORTED	11	40
ATRRMUNREGISTERSUPPORT	11	10
ATRRURDPARMLIST	0	
ATRRURDRETURNCODEPTR	0	
ATRRURDURIDPTR	8	
ATRRURDURITOKENPTR	4	
ATRRURDURSTATEPTR	C	
ATRRURD1PARMLIST	0	
ATRRURD1RETURNCODEPTR	0	
ATRRURD1STATESOPTIONPTR	10	
ATRRURD1URIDPTR	8	

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATRRURD1URITOKENPTR	4	
ATRRURD1URSTATEPTR	C	
ATRRURD2PARMLIST	0	
ATRRURD2RETURNCODEPTR	0	
ATRRURD2STATESOPTIONPTR	10	
ATRRURD2URIDPTR	8	
ATRRURD2URORURITOKENPTR	4	
ATRRURD2URSTATEPTR	C	
ATRRURD2URTOKENPTR	14	
ATRRUSFCONTEXTTOKENPTR	4	
ATRRUSFENVINFOPTR	8	
ATRRUSFPARMLIST	0	
ATRRUSFRETURNCODEPTR	0	
ATRRUSF1CONTEXTTOKENPTR	4	
ATRRUSF1ENVINFOPTR	8	
ATRRUSF1PARMLIST	0	
ATRRUSF1RETURNCODEPTR	0	
ATRRUSF1SIDEINFOOPTIONSPTR	C	
ATRRUSIELEMENTCOUNTPTR	8	
ATRRUSIPARMLIST	0	
ATRRUSIRETURNCODEPTR	0	
ATRRUSISIDEINFOARRAYPTR	C	
ATRRUSISIDEINFOSTATEARRAYPTR	10	
ATRRUSIURITOKENPTR	4	
ATRRUSI2ELEMENTCOUNTPTR	8	
ATRRUSI2PARMLIST	0	
ATRRUSI2RETURNCODEPTR	0	
ATRRUSI2SIDEINFOARRAYPTR	C	
ATRRUSI2SIDEINFOSTATEARRAYPTR	10	
ATRRUSI2URORURITOKENPTR	4	
ATRRWIDGENERATEOPTIONPTR	C	
ATRRWIDPARMLIST	0	
ATRRWIDRETRIEVEOPTIONPTR	8	
ATRRWIDRETURNCODEPTR	0	
ATRRWIDURITOKENPTR	4	
ATRRWIDUWIDBUFFERLENPTR	14	
ATRRWIDUWIDDATAPTR	1C	
ATRRWIDUWIDLENPTR	18	
ATRRWIDUWIDTYPEPTR	10	
ATRRWID2GENERATEOPTIONPTR	C	
ATRRWID2PARMLIST	0	
ATRRWID2RETRIEVEOPTIONPTR	8	
ATRRWID2RETURNCODEPTR	0	
ATRRWID2URORURITOKENPTR	4	
ATRRWID2UWIDBUFFERLENPTR	14	
ATRRWID2UWIDDATAPTR	1C	
ATRRWID2UWIDLENPTR	18	
ATRRWID2UWIDTYPEPTR	10	
ATRSDTAPARMLIST	0	

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATRSDTARETURNCODEPTR	0	
ATRSDTARMMETADATALENGTHPTR	8	
ATRSDTARMMETADATAPTR	C	
ATRSDTARMTOKENPTR	4	
ATRSENVCONTEXTTOKENPTR	C	
ATRSENVDIAGAREAPTR	4	
ATRSENVELEMENTCOUNTPTR	14	
ATRSENVENVSETTINGIDPTR	18	
ATRSENVENVSETTINGPROCTPTR	20	
ATRSENVENVSETTINGPTR	1C	
ATRSENVPARMLIST	0	
ATRSENVRETURNCODEPTR	0	
ATRSENVSCOPEPTR	8	
ATRSENVSTOKENPTR	10	
ATRSITFAILUREACTIONPTR	10	
ATRSITINTERESTTYPEPTR	C	
ATRSITPARMLIST	0	
ATRSITPDATALENGTHPTR	14	
ATRSITPDATAPTR	18	
ATRSITRETURNCODEPTR	0	
ATRSITURIDPTR	8	
ATRSITURITOKENPTR	4	
ATRSPIDPARMLIST	0	
ATRSPIDPDATALENGTHPTR	8	
ATRSPIDPDATAPTR	C	
ATRSPIDRETURNCODEPTR	0	
ATRSPIDURITOKENPTR	4	
ATRSPSP2PARMLIST	0	
ATRSPSP2PETOKENPTR	8	
ATRSPSP2RETURNCODEPTR	0	
ATRSPSP2URTOKENPTR	4	
ATRSROIFAILUREACTIONPTR	14	
ATRSROIINTERESTTYPEPTR	10	
ATRSROINEWURITOKENPTR	8	
ATRSROINONPERSISTENTDATAPTR	18	
ATRSROIPARMLIST	0	
ATRSROIPDATALENGTHPTR	1C	
ATRSROIPDATAPTR	20	
ATRSROIRETURNCODEPTR	0	
ATRSROIURIDPTR	C	
ATRSROIURITOKENPTR	4	
ATRSROI1INTERESTOPTIONSPTR	10	
ATRSROI1NEWURITOKENPTR	8	
ATRSROI1NONPERSISTENTDATAPTR	14	
ATRSROI1PARMLIST	0	
ATRSROI1PDATALENGTHPTR	18	
ATRSROI1PDATAPTR	1C	
ATRSROI1RETURNCODEPTR	0	
ATRSROI1URIDPTR	C	

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATRSROI1URITOKENPTR	4	
ATRSRVFORGETSUPPORT	11	8
ATRSSPCBACKOUTEXITCODEPTR	10	
ATRSSPCCOMMITEXITCODEPTR	C	
ATRSSPCPARMLIST	0	
ATRSSPCPREPAREEXITCODEPTR	8	
ATRSSPCRETURNCODEPTR	0	
ATRSSPCROLEPTR	14	
ATRSSPCURITOKENPTR	4	
ATRSUBORDINATEFAILEDEXITSUPPORT	10	20
ATRSUSIELEMENTCOUNTPTR	8	
ATRSUSIPARMLIST	0	
ATRSUSIRETURNCODEPTR	0	
ATRSUSISIDEINFOARRAYPTR	C	
ATRSUSIURITOKENPTR	4	
ATRSUSI2ELEMENTCOUNTPTR	8	
ATRSUSI2PARMLIST	0	
ATRSUSI2RETURNCODEPTR	0	
ATRSUSI2SIDEINFOARRAYPTR	C	
ATRSUSI2URORURITOKENPTR	4	
ATRSWIDPARMLIST	0	
ATRSWIDRETURNCODEPTR	0	
ATRSWIDSETOPTIONPTR	8	
ATRSWIDURITOKENPTR	4	
ATRSWIDUWIDDATAPTR	14	
ATRSWIDUWIDLENPTR	10	
ATRSWIDUWIDTYPEPTR	C	
ATRSWID2PARMLIST	0	
ATRSWID2RETURNCODEPTR	0	
ATRSWID2SETOPTIONPTR	8	
ATRSWID2URORURITOKENPTR	4	
ATRSWID2UWIDDATAPTR	14	
ATRSWID2UWIDLENPTR	10	
ATRSWID2UWIDTYPEPTR	C	
ATRTERMINATINGSP_TERMSUPPORT	11	4
ATRX_ABSTAIN	0	14
ATRX_BACKOUT	0	8
ATRX_BACKOUT_OUTCOME_PENDING	0	C
ATRX_DEFER	0	40
ATRX_FORGET	0	10
ATRX_HC	0	24
ATRX_HM	0	2C
ATRX_HM_BACKOUT	0	38
ATRX_HM_COMMIT	0	3C
ATRX_HR	0	28
ATRX_LATER	0	30
ATRX_LATER_CONTINUE	0	34
ATRX_OK	0	0
ATRX_OK_OUTCOME_PENDING	0	4

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATRX_REDRIVE	0	1C
ATRX_STATE_INCORRECT	0	20
ATRX_UNSET_RM	0	404
ATRXFLAGAPPLICATIONASYNCABEND	1	40
ATRXFLAGCASCADEDUR	1	10
ATRXFLAGCOMMIT	1	80
ATRXFLAGHEURISTICMIXED	0	10
ATRXFLAGIMMEDIATEBACKOUT	0	2
ATRXFLAGPREPARERESULTFORGET	0	4
ATRXFLAGREDRIVELIMIT	0	1
ATRXFLAGRESOLVEDBYINSTALLATION	0	20
ATRXFLAGRESTARTINTEREST	0	80
ATRXFLAGRESYNCINPROGRESS	0	8
ATRXFLAGRETAININTINV	1	20
ATRXFLAGTERMINATINGSP_TERM	1	2
ATRXFLAGTERMINATINGSYNCPOINT	0	40
ATRXFLAGTRANSACTIONMODE	1	C
ATRXPARMEMNAMEPTR	10	
ATRXPARMEXITFLAGS	0	
ATRXPARMEXITFLAGSBYTE1	0	
ATRXPARMEXITFLAGSBYTE2	1	
ATRXPARMEXITFLAGSBYTE3	2	
ATRXPARMEXITFLAGSBYTE4	3	
ATRXPARMEXITFLAGSPTR	20	
ATRXPARMEXITNUMBERPTR	8	
ATRXPARMLIST	0	
ATRXPARMNONPERSISTENTDATAPTR	1C	
ATRXPARMRETURNCODEPTR	0	
ATRXPARMRMGLOBALDATAPTR	14	
ATRXPARMRMTOKENPTR	C	
ATRXPARMURITOKENPTR	18	
ATRXPARMVALUE1PTR	24	
ATRXPARMVALUE2PTR	28	
ATRXPARMVALUE3PTR	2C	
ATRXPARMVALUE4PTR	30	
ATRXPARMVALUE5PTR	34	
ATRXPARMVERSIONPTR	4	
ATRXVERSION1	0	1
ATR4ABAKLOGOPTIONPTR	10	
ATR4ABAKPARMLIST	0	
ATR4ABAKRETURNCODEPTR	0	
ATR4ABAKURITOKENPTR	8	
ATR4ACMTLOGOPTIONPTR	10	
ATR4ACMTPARMLIST	0	
ATR4ACMTRETURNCODEPTR	0	
ATR4ACMTURITOKENPTR	8	
ATR4ADCTCOMMITOPTIONSPTR	18	
ATR4ADCTLOGOPTIONPTR	10	
ATR4ADCTPARMLIST	0	

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATR4ADCTRETURNCODEPTR	0	
ATR4ADCTURITOKENPTR	8	
ATR4AFGTLOGOPTIONPTR	10	
ATR4AFGTPARMLIST	0	
ATR4AFGTRETURNCODEPTR	0	
ATR4AFGTURITOKENPTR	8	
ATR4APRPLOGOPTIONPTR	10	
ATR4APRPPARMLIST	0	
ATR4APRPRETURNCODEPTR	0	
ATR4APRPURITOKENPTR	8	
ATR4BACKPARMLIST	0	
ATR4BACKRETURNCODEPTR	0	
ATR4BEGDIAGAREAPTR	8	
ATR4BEGPARMLIST	0	
ATR4BEGRETURNCODEPTR	0	
ATR4BEGTRANMODEPTR	10	
ATR4BEGURIDPTR	20	
ATR4BEGURTOKENPTR	18	
ATR4CCURCHILDCONTEXTTOKENPTR	10	
ATR4CCURCHILDURID	20	
ATR4CCURCHILDURTOKEN	18	
ATR4CCURCREATEOPTIONS	28	
ATR4CCURPARENTURTOKENPTR	8	
ATR4CCURPARMLIST	0	
ATR4CCURRETURNCODEPTR	0	
ATR4CMITPARMLIST	0	
ATR4CMITRETURNCODEPTR	0	
ATR4DINTPARMLIST	0	
ATR4DINTRETURNCODEPTR	0	
ATR4DINTURITOKENPTR	8	
ATR4DPSPPARMLIST	0	
ATR4DPSPPETOKENPTR	10	
ATR4DPSPRETURNCODEPTR	0	
ATR4DPSPURTOKENPTR	8	
ATR4EINTCONTEXTTOKENPTR	10	
ATR4EINTCURRCONTEXTTOKENPTR	28	
ATR4EINTCURRNONPDATAPTR	48	
ATR4EINTDIAGAREAPTR	78	
ATR4EINTINTERESTOPTIONS	38	
ATR4EINTNONPERSISTENTDATAPTR	40	
ATR4EINTPARENTURTOKENPTR	70	
ATR4EINTPARMLIST	0	
ATR4EINTPDATALENGTHPTR	50	
ATR4EINTPDATAPTR	58	
ATR4EINTRETURNCODEPTR	0	
ATR4EINTRMTOKENPTR	8	
ATR4EINTTRANMODEPTR	80	
ATR4EINTURIDPTR	30	
ATR4EINTURITOKENPTR	18	

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATR4EINTURTOKENPTR	20	
ATR4EINTXIDLENGTHPTR	60	
ATR4EINTXIDPTR	68	
ATR4ENDACTIONPTR	10	
ATR4ENDCURRURTOKENPTR	18	
ATR4ENDDIAGAREAPTR	8	
ATR4ENDPARMLIST	0	
ATR4ENDRETURNCODEPTR	0	
ATR4IBRSPARMLIST	0	
ATR4IBRSRETURNCODEPTR	0	
ATR4IBRSRMTOKENPTR	8	
ATR4IERSPARMLIST	0	
ATR4IERSRETURNCODEPTR	0	
ATR4IERSRMTOKENPTR	8	
ATR4IRLNPARMLIST	0	
ATR4IRLNRETURNCODEPTR	0	
ATR4IRLNRMLOGNAMEBUFLENPTR	10	
ATR4IRLNRMLOGNAMELENGTHPTR	18	
ATR4IRLNRMLOGNAMEPTR	20	
ATR4IRLNRMTOKENPTR	8	
ATR4IRLNRRSLOGNAMELENGTHPTR	28	
ATR4IRLNRRSLOGNAMEPTR	30	
ATR4IRNICONTEXTTOKENPTR	10	
ATR4IRNIPARMLIST	0	
ATR4IRNIPDATABUFFERLENGTHPTR	38	
ATR4IRNIPDATALENGTHPTR	40	
ATR4IRNIPDATAPTR	48	
ATR4IRNIRETURNCODEPTR	0	
ATR4IRNIRMTOKENPTR	8	
ATR4IRNIROLEPTR	28	
ATR4IRNIURIDPTR	20	
ATR4IRNIURITOKENPTR	18	
ATR4IRNIURSTATEPTR	30	
ATR4IRRINONPERSISTENTDATAPTR	18	
ATR4IRRIPARMLIST	0	
ATR4IRRIRESPONSECODEPTR	10	
ATR4IRRIRETURNCODEPTR	0	
ATR4IRRIURITOKENPTR	8	
ATR4ISLNPARMLIST	0	
ATR4ISLNRETURNCODEPTR	0	
ATR4ISLNRMLOGNAMELENGTHPTR	10	
ATR4ISLNRMLOGNAMEPTR	18	
ATR4ISLNRMTOKENPTR	8	
ATR4PDUECOMPLETIONCODEPTR	18	
ATR4PDUEEXITNUMBERPTR	10	
ATR4PDUEPARMLIST	0	
ATR4PDUERETURNCODEPTR	0	
ATR4PDUEURITOKENPTR	8	
ATR4RDTAPARMLIST	0	

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATR4RDTARETURNCODEPTR	0	
ATR4RDTARMMETADATABUFFERLENGTHPTR	10	
ATR4RDTARMMETADATALENGTHPTR	18	
ATR4RDTARMMETADATAPTR	20	
ATR4RDTARMTOKENPTR	8	
ATR4REICCONTEXTTOKENPTR	8	
ATR4REICINTERESTCOUNTINFOPTR	10	
ATR4REICPARMLIST	0	
ATR4REICRETURNCODEPTR	0	
ATR4RENVCONTEXTTOKENPTR	18	
ATR4RENVDIAGAREAPTR	8	
ATR4RENVELEMENTCOUNTPTR	28	
ATR4RENVENVSETTINGIDPTR	30	
ATR4RENVENVSETTINGPROCTPTR	40	
ATR4RENVENVSETTINGPTR	38	
ATR4RENVPARMLIST	0	
ATR4RENVRETURNCODEPTR	0	
ATR4RENVSCOPEPTR	10	
ATR4RENVSTOKENPTR	20	
ATR4RIDEXPOFINTTYPEPTR	38	
ATR4RIDINTERESTTYPEPTR	30	
ATR4RIDNONPERSISTENTDATAPTR	10	
ATR4RIDPARMLIST	0	
ATR4RIDPDATABUFFERLENGTHPTR	18	
ATR4RIDPDATALENGTHPTR	20	
ATR4RIDPDATAPTR	28	
ATR4RIDRETURNCODEPTR	0	
ATR4RIDROLEPTR	40	
ATR4RIDURITOKENPTR	8	
ATR4RURDPARMLIST	0	
ATR4RURDRETURNCODEPTR	0	
ATR4RURDSTATESOPTIONPTR	20	
ATR4RURDURIDPTR	10	
ATR4RURDURORURITOKENPTR	8	
ATR4RURDURSTATEPTR	18	
ATR4RURDURTOKENPTR	28	
ATR4RUSFCONTEXTTOKENPTR	8	
ATR4RUSFENVINFOPTR	10	
ATR4RUSFPARMLIST	0	
ATR4RUSFRETURNCODEPTR	0	
ATR4RUSFSIDEINFOOPTIONSPTR	18	
ATR4RUSIELEMENTCOUNTPTR	10	
ATR4RUSIPARMLIST	0	
ATR4RUSIRETURNCODEPTR	0	
ATR4RUSISIDEINFOARRAYPTR	18	
ATR4RUSISIDEINFOSTATEARRAYPTR	20	
ATR4RUSIURORURITOKENPTR	8	
ATR4RWIDGENERATEOPTIONPTR	18	
ATR4RWIDPARMLIST	0	

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATR4RWIDRETRIEVEOPTIONPTR	10	
ATR4RWIDRETURNCODEPTR	0	
ATR4RWIDURORURITOKENPTR	8	
ATR4RWIDUWIDBUFFERLENPTR	28	
ATR4RWIDUWIDDATAPTR	38	
ATR4RWIDUWIDLENPTR	30	
ATR4RWIDUWIDTYPEPTR	20	
ATR4SDTAPARMLIST	0	
ATR4SDTARETURNCODEPTR	0	
ATR4SDTARMMETADATALENGTHPTR	10	
ATR4SDTARMMETADATAPTR	18	
ATR4SDTARMTOKENPTR	8	
ATR4SENVCONTEXTTOKENPTR	18	
ATR4SENVDIAGAREAPTR	8	
ATR4SENVELEMENTCOUNTPTR	28	
ATR4SENVENVSETTINGIDPTR	30	
ATR4SENVENVSETTINGPROCTPTR	40	
ATR4SENVENVSETTINGPTR	38	
ATR4SENVPARMLIST	0	
ATR4SENVRETURNCODEPTR	0	
ATR4SENVSCOPEPTR	10	
ATR4SENVSTOKENPTR	20	
ATR4SITFAILUREACTIONPTR	20	
ATR4SITINTERESTTYPEPTR	18	
ATR4SITPARMLIST	0	
ATR4SITPDATALENGTHPTR	28	
ATR4SITPDATAPTR	30	
ATR4SITRETURNCODEPTR	0	
ATR4SITURIDPTR	10	
ATR4SITURITOKENPTR	8	
ATR4SPIDPARMLIST	0	
ATR4SPIDPDATALENGTHPTR	10	
ATR4SPIDPDATAPTR	18	
ATR4SPIDRETURNCODEPTR	0	
ATR4SPIDURITOKENPTR	8	
ATR4SPSPPARMLIST	0	
ATR4SPSPPETOKENPTR	10	
ATR4SPSPRETURNCODEPTR	0	
ATR4SPSPURTOKENPTR	8	
ATR4SROIINTERESTOPTIONSPTR	20	
ATR4SROINEWURITOKENPTR	10	
ATR4SROINONPERSISTENTDATAPTR	28	
ATR4SROIPARMLIST	0	
ATR4SROIPDATALENGTHPTR	30	
ATR4SROIPDATAPTR	38	
ATR4SROIRETURNCODEPTR	0	
ATR4SROIURIDPTR	18	
ATR4SROIURITOKENPTR	8	
ATR4SSPCBACKOUTEXITCODEPTR	20	

Table 237. Cross Reference for ATRRASM (continued)

Name	Offset	Hex Tag
ATR4SSPCCOMMITEXITCODEPTR	18	
ATR4SSPCPARMLIST	0	
ATR4SSPCPREPAREEXITCODEPTR	10	
ATR4SSPCRETURNCODEPTR	0	
ATR4SSPCROLEPTR	28	
ATR4SSPCURITOKENPTR	8	
ATR4SUSIELEMENTCOUNTPTR	10	
ATR4SUSIPARMLIST	0	
ATR4SUSIRETURNCODEPTR	0	
ATR4SUSISIDEINFOARRAYPTR	18	
ATR4SUSIURORURITOKENPTR	8	
ATR4SWIDPARMLIST	0	
ATR4SWIDRETURNCODEPTR	0	
ATR4SWIDSETOPTIONPTR	10	
ATR4SWIDURORURITOKENPTR	8	
ATR4SWIDUWIDDATAPTR	28	
ATR4SWIDUWIDLENPTR	20	
ATR4SWIDUWIDTYPEPTR	18	
ATR64BITADDRESSABILITYSUPPORTED	10	8

Chapter 42. ATRSASM Information

ATRSASM Programming Interface Information

ATRSASM is a programming interface.

ATRSASM Heading Information

Common Name:	RRS Assembler Declares for SRR services
Macro ID:	ATRSASM
DSECT Name:	SRRBACKPARMLIST, SRRCMITPARMLIST
Owning Component:	RRS (SCRRS)
Eye-Catcher ID:	none
Storage Attributes:	Subpool: Determined by caller of SRR callable service Key: Determined by caller of SRR callable service Residency: Determined by caller of SRR callable service
Size:	4 bytes each
Created by:	Programs which invoke SRR callable services
Pointed to by:	Register 1 on entry to the corresponding SRR callable service
Serialization:	n/a
Function:	ATRSASM defines RRS constants and declares for programs written in the Assembler language which will invoke the RRS SRR callable services (e.g. SRRBACK, SRRCMIT).

ATRSASM mapping

Table 238. Structure SRRBACKPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SRRBACKPARMLIST	
0	(0)	ADDRESS	4	SRRBACKRETURNCODEPTR	Address of return code

Table 239. Structure SRRCMITPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SRRCMITPARMLIST	
0	(0)	ADDRESS	4	SRRCMITRETURNCODEPTR	Address of return code

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Chapter 43. ATRSZAUR Information

ATRSZAUR Programming Interface Information

ATRSZAUR is a programming interface.

ATRSZAUR Heading Information

Common Name:	RRS Archive Log Block
Macro ID:	ATRSZAUR
DSECT Name:	ATRSZAUR, ATRSZAUR_UR_DATA, ATRSZAUR_URI_DATA, ATRSZAUR_XID_DATA
Owning Component:	Resource Recovery Services (SCRRS)
Eye-Catcher ID:	ATRSCAUR Offset: 0 Length: 8
Storage Attributes:	Subpool: N/A Key: N/A Residency: N/A
Size:	ATRSZAUR (36 bytes) ATRSZAUR_UR_DATA (152 bytes) ATRSZAUR_URI_DATA (100 bytes) ATRSZAUR_XID_DATA (13 bytes minimum, 140 bytes maximum)
Created by:	N/A
Pointed to by:	N/A
Serialization:	N/A

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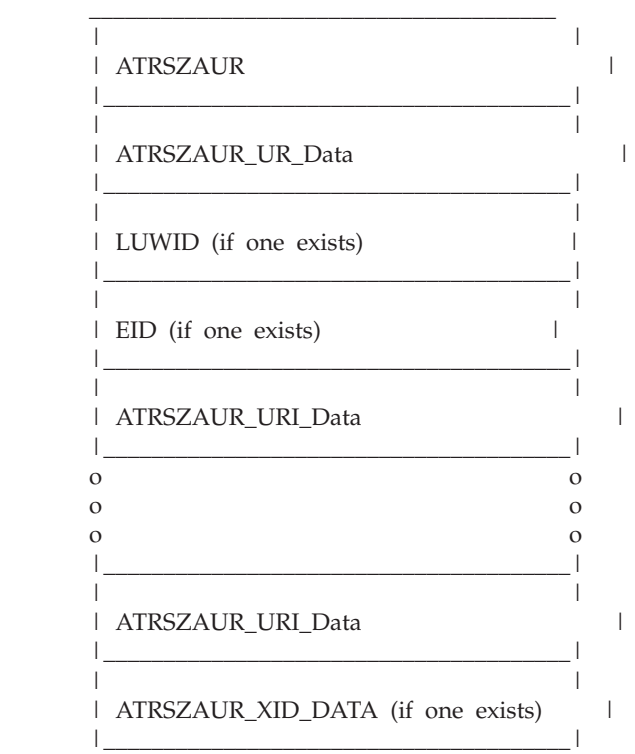
ATRSZAUR Heading Information

Function: This macro contains constants and declares for the RRS Archive log block
The log block is comprised of the following data areas:
- Header information (mapped by ATRSZAUR)
- UR information (mapped by ATRSZAUR_UR_DATA)
- Base data portion
- Offset of the XID within the log block
- a LUWID, if one exists
- an EID, if one exists
- one or more URI information blocks (mapped by ATRSZAUR_URI_DATA)
- an XID, if one exists (mapped by ATRSZAUR_XID_DATA)

Use the lengths in each block to move from one data area to another.



SysPlex Subordinate Buffer Processing:
- ATRSMXPR (Subordinate Prepare)
-- "Ending Log Point"
Collect Archive Log Data (inot Local Log Buffer Queue)
Local Log Buffer Queue -> XUR (Archive Log Buffer Queue)
- ATRXMSCB (Subordinate SyncPoint Reply Processing)
-- "SHECopyLogDataToMessage"
XUR (Archive Log Buffer Queue) -> Message Block
SysPlex Coordinator Buffer Processing:
- ATRXMSCB (SyncPoint Subordinates Back End Processing)
-- "XURProcessSubordinateLogData"
Message Block -> SA (Archive Log Buffer Queue)
- ATRLMLOG (Ending Log Point Processing)
-- "UR$GetArchiveDataSysPlexCascadedUR"
SA (Archive Log Buffer Queue) -> Local Log Buffer Queue
Local Log Buffer Queue - IXGWriteAsync

ATRSZAUR mapping

Table 240. Structure ATRSZAUR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSZAUR	
0	(0)	DBL WORD	8	AUR_HEADER(0)	AUR header mapping
0	(0)	CHARACTER	8	AUR_EYECATCHER	Control block identifier
8	(8)	SIGNED	4	AUR_VERSION	Control block version
12	(C)	SIGNED	4	AUR_LENGTH	AUR header length
16	(10)	CHARACTER	8	AUR_SYSTEM_NAME	Name of system that wrote this block
24	(18)	SIGNED	4	AUR_INTEREST_COUNT	Number of URI data blocks
28	(1C)	SIGNED	4	AUR_AMOUNTTRUNCATED	Amount of data truncated when the AUR was written to the RRS Archive log.
32	(20)	CHARACTER	4	AUR_RSV	Reserved
32	(20)	X'24'	0	ATRSZAUR_VERS_2_DATA	"*" AUR_UR Version 2 Data
36	(24)	SIGNED	4	AUR_TOTALNUMBEROFBLOCKS	Total number of log blocks required to log the cascaded UR family
40	(28)	SIGNED	4	AUR_BLOCKNUMBER	Block number
44	(2C)	CHARACTER	8	AUR_NEXTBLOCKID	Block ID of the previously logged block - used to perform a direct read for the next block of a multi-block log record
44	(2C)	X'34'	0	ATRSZAUR_VERS_3_DATA	"*" AUR_UR Version 3 Data
52	(34)	BITSTRING	4	AUR_FLAGS(0)	Indicator flags
52	(34)	BITSTRING	1	AUR_FLAGSBYTE1	Byte 1
		1...		AUR_CFAMILY	"X'80'" This log block is part of a cascaded UR family
		.1..		AUR_SYSPLEXFAMILY	"X'40'" This log block is part of a sysplex cascaded UR family
53	(35)	BITSTRING	1	AUR_FLAGSBYTE2	Byte 2
54	(36)	BITSTRING	1	AUR_FLAGSBYTE3	Byte 3
55	(37)	BITSTRING	1	AUR_FLAGSBYTE4	Byte 4
56	(38)	CHARACTER	32	AUR_SURID	SURID

Table 241. Structure ATRSZAUR_UR_DATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSZAUR_UR_DATA	UR data mapping
0	(0)	X'0'	0	ATR_UR_BASE_DATA	"*" UR data that is logged for all RRS releases
0	(0)	SIGNED	4	AUR_UR_VERSION	Control block version
4	(4)	SIGNED	4	AUR_UR_LENGTH	UR data length
8	(8)	BITSTRING	16	AUR_UR_URID	UR identifier
24	(18)	SIGNED	4	AUR_UR_SYNCPOINT_TYPE	UR sync-point type. Possible values (defined in ATRRASM):
28	(1C)	BITSTRING	4	AUR_UR_FLAGS	UR flags. Not externalized.
32	(20)	SIGNED	4	AUR_UR_SYNCPOINT_RC	Sync-point return code
36	(24)	CHARACTER	8	AUR_UR_STARTTIME	UR create timestamp (GMT)
44	(2C)	CHARACTER	8	AUR_UR_ENDURTIME	UR end timestamp (GMT)
52	(34)	SIGNED	4	AUR_UR_EXITRESULT(9)	Array of exit results

Table 241. Structure ATRSZAUR_UR_DATA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
88	(58)	CHARACTER	8	AUR_UR_JOBNAME	Jobname that requested the syncpoint
96	(60)	CHARACTER	8	AUR_UR_USERID	Userid that requested the syncpoint
104	(68)	SIGNED	4	AUR_UR_LUWID_LENGTH	LUWID length. If zero, no LUWID for this UR
108	(6C)	SIGNED	4	AUR_UR_EID_LENGTH	EID length. If zero, no EID for this UR
112	(70)	CHARACTER	4	AUR_UR_RSV	Reserved
112	(70)	X'74'	0	ATR_UR_MORE_DATA	"*"
112	(70)	X'74'	0	ATRSZAUR_UR_MORE_DATA	"*"
112	(70)	X'74'	0	ATRSZAUR_UR_VERS_2_DATA	"*" AUR_UR Version 2 Data
116	(74)	SIGNED	4	AUR_UR_XID_OFFSET	Offset of an XID within the log block
116	(74)	X'78'	0	ATRSZAUR_UR_VERS_3_DATA	"*" AUR_UR Version 3 Data
120	(78)	CHARACTER	32	AUR_UR_WORK_MANAGER_NAME	Work Manager Name.
120	(78)	X'98'	0	ATRSZAUR_UR_VERS_4_DATA	"*" AUR_UR Version 4 Data
152	(98)	BITSTRING	16	AUR_UR_PARENT_URID	UR identifier of the parent UR
168	(A8)	SIGNED	4	AUR_UR_NEXTAUR_OFFSET	Offset of the next UR entry within the log block

Table 242. Structure ATRSZAUR_UR_READ_DATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSZAUR_UR_READ_DATA	UR data mapping - for read use only
0	(0)	CHARACTER	116	AUR_UR_R_BASE_DATA	UR data that is logged for all RRS releases
116	(74)	SIGNED	4	AUR_UR_R_XID_OFFSET	Offset of the XID within the log block
120	(78)	CHARACTER	32	AUR_UR_R_WORK_MANAGER_NAME	Work Manager Name
152	(98)	BITSTRING	16	AUR_UR_R_PARENT_URID	UR identifier of the parent UR
168	(A8)	SIGNED	4	AUR_UR_R_NEXTAUR_OFFSET	Offset of the next UR entry within the log block

Table 243. Structure ATRSZAUR_URI_DATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSZAUR_URI_DATA	URI data mapping
0	(0)	SIGNED	4	AUR_URI_VERSION	Control block version
4	(4)	SIGNED	4	AUR_URI_LENGTH	URI data length
8	(8)	CHARACTER	32	AUR_URI_RMNAME	Resource manager name
40	(28)	SIGNED	4	AUR_URI_ROLE	URI role. Possible values (defined in ATRRASM): ATR_PARTICIPANT ATR_LAST_AGENT ATR_DSRM ATR_SDSRM
44	(2C)	BITSTRING	4	AUR_URI_FLAGS	Exit flags
48	(30)	SIGNED	4	AUR_URI_EXIT_RESULT(9)	Array of exit results

Table 243. Structure ATRSZAUR_URI_DATA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
84	(54)	SIGNED	4	AUR_URI_TWO_PHASE_PROTOCOL	URI protocol. Possible values (defined in ATRRASM): ATR_PRESUMED_NOTHING ATR_PRESUMED_ABORT
88	(58)	SIGNED	4	AUR_URI_INTEREST_TYPE	URI interest type. Possible values (defined in ATRRASM): ATR_PROTECTED ATR_UNPROTECTED
92	(5C)	CHARACTER	4	AUR_URI_RSV	Reserved
92	(5C)	X'60'	0	AUR_URI_MORE_DATA	"*" !
92	(5C)	X'60'	0	AUR_URI_VERS_2_DATA	"*" AUR_URI Version 2 Data !
96	(60)	SIGNED	4	AUR_URI_PRE_PREPARE_EXIT_RESULT	

Table 244. Cross Reference for ATRSZAUR

Name	Offset	Hex Tag
ATR_UR_BASE_DATA	0	0
ATR_UR_MORE_DATA	70	74
ATRSZAUR	0	
ATRSZAUR_UR_DATA	0	
ATRSZAUR_UR_MORE_DATA	70	74
ATRSZAUR_UR_READ_DATA	0	
ATRSZAUR_UR_VERS_2_DATA	70	74
ATRSZAUR_UR_VERS_3_DATA	74	78
ATRSZAUR_UR_VERS_4_DATA	78	98
ATRSZAUR_URI_DATA	0	
ATRSZAUR_VERS_2_DATA	20	24
ATRSZAUR_VERS_3_DATA	2C	34
AUR_AMOUNTTRUNCATED	1C	
AUR_BLOCKNUMBER	28	
AUR_CFAMILY	34	80
AUR_EYECATCHER	0	
AUR_FLAGS	34	
AUR_FLAGSBYTE1	34	
AUR_FLAGSBYTE2	35	
AUR_FLAGSBYTE3	36	
AUR_FLAGSBYTE4	37	
AUR_HEADER	0	
AUR_INTEREST_COUNT	18	
AUR_LENGTH	C	
AUR_NEXTBLOCKID	2C	
AUR_RSV	20	
AUR_SURID	38	
AUR_SYSPLEXFAMILY	34	40
AUR_SYSTEM_NAME	10	
AUR_TOTALNUMBEROFBLOCKS	24	
AUR_UR_EID_LENGTH	6C	
AUR_UR_ENDURTIME	2C	
AUR_UR_EXITRESULT	34	
AUR_UR_FLAGS	1C	

Table 244. Cross Reference for ATRSZAUR (continued)

Name	Offset	Hex Tag
AUR_UR_JOBNAME	58	
AUR_UR_LENGTH	4	
AUR_UR_LUWID_LENGTH	68	
AUR_UR_NEXTAUR_OFFSET	A8	
AUR_UR_PARENT_URID	98	
AUR_UR_R_BASE_DATA	0	
AUR_UR_R_NEXTAUR_OFFSET	A8	
AUR_UR_R_PARENT_URID	98	
AUR_UR_R_WORK_MANAGER_NAME	78	
AUR_UR_R_XID_OFFSET	74	
AUR_UR_RSV	70	
AUR_UR_STARTTIME	24	
AUR_UR_SYNCPOINT_RC	20	
AUR_UR_SYNCPOINT_TYPE	18	
AUR_UR_URID	8	
AUR_UR_USERID	60	
AUR_UR_VERSION	0	
AUR_UR_WORK_MANAGER_NAME	78	
AUR_UR_XID_OFFSET	74	
AUR_URI_EXIT_RESULT	30	
AUR_URI_FLAGS	2C	
AUR_URI_INTEREST_TYPE	58	
AUR_URI_LENGTH	4	
AUR_URI_MORE_DATA	5C	60
AUR_URI_PRE_PREPARE_EXIT_RESULT	60	
AUR_URI_RMNAME	8	
AUR_URI_ROLE	28	
AUR_URI_RSV	5C	
AUR_URI_TWO_PHASE_PROTOCOL	54	
AUR_URI_VERS_2_DATA	5C	60
AUR_URI_VERSION	0	
AUR_VERSION	8	

Chapter 44. ATRSZPUR Information

ATRSZPUR Programming Interface Information

ATRSZPUR is a programming interface.

ATRSZPUR Heading Information

Common Name:	RRS UR/Restart Log Block
Macro ID:	ATRSZPUR
DSECT Name:	ATRSZPUR, ATRSZPUR_HDR_DATA, ATRSZPUR_UR_DATA, ATRSZPUR_URI_DATA, ATRSZPUR_XID_DATA
Owning Component:	Resource Recovery Services (SCRRS)
Eye-Catcher ID:	ATRSCPUR Offset: 0 Length: 8
Storage Attributes:	Subpool: N/A Key: N/A Residency: N/A
Size:	ATRSZPUR (24 bytes) ATRSZPUR_HDR_DATA (62 bytes) ATRSZPUR_UR_DATA (100 bytes) ATRSZPUR_URI_DATA (72 bytes) ATRSZPUR_XID_DATA (13 bytes minimum, 140 bytes maximum)
Created by:	N/A
Pointed to by:	N/A
Serialization:	N/A

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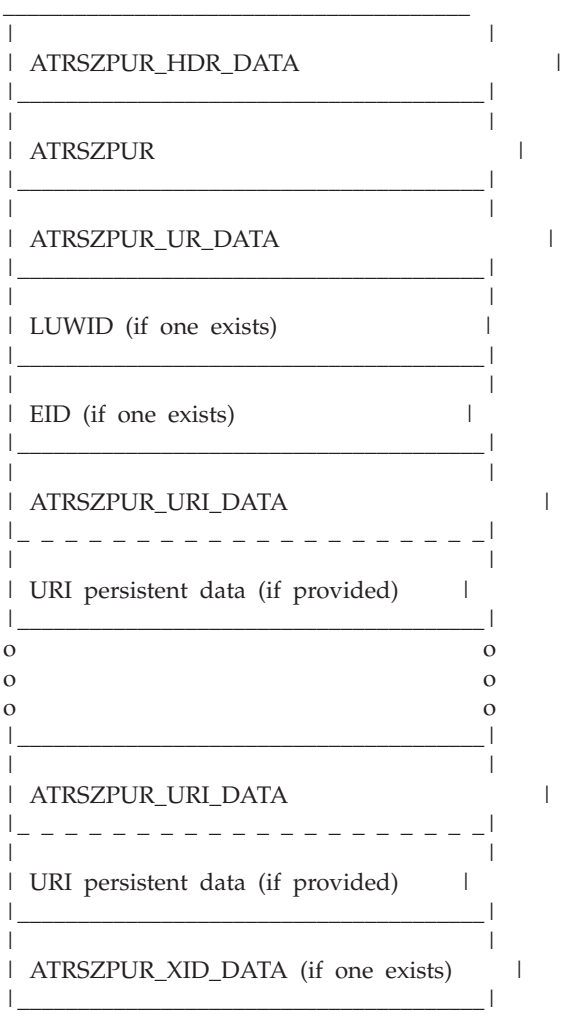
ATRSZPUR Heading Information

Function: This macro contains constants and declares for the RRS UR and Restart log blocks
The log block is comprised of the following data areas:
- Block information (mapped by ATRSZPUR_HEADER)
- Header information (mapped by ATRSZPUR)
- UR information (mapped by ATRSZPUR_UR_DATA)
- Base data portion
- Offset of the XID within the log block
- UR function map
- a LUWID, if one exists
- an EID, if one exists
- one or more URI information groups containing:
- URI information (mapped by ATRSZPUR_URI_DATA)
- URI persistent data, if it exists
- an XID, if one exists (mapped by ATRSZPUR_XID_DATA)

Use the lengths in each block to move from one data area to another.



ATRSZPUR mapping

Table 245. Structure ATRSZPUR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSZPUR	
0	(0)	DBL WORD	8	PUR_HEADER(0)	PUR header mapping
0	(0)	CHARACTER	8	PUR_EYECATCHER	Control block identifier
8	(8)	SIGNED	4	PUR_VERSION	Control block version
12	(C)	SIGNED	4	PUR_LENGTH	PUR header length
16	(10)	SIGNED	4	PUR_INTEREST_COUNT	Number of URI data blocks in the Top Level UR
20	(14)	SIGNED	4	PUR_AMOUNTTRUNCATED	Amount of data truncated when the PUR was written to the RRS Archive log. Only valid for PURs in the Archive log.

Table 246. Structure ATRSZPUR_UR_DATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSZPUR_UR_DATA	UR data mapping - for write use only
0	(0)	X'0'	0	ATRSZPUR_UR_BASE_DATA	"*" UR data which is logged for all RRS releases
0	(0)	SIGNED	4	PUR_UR_VERSION	Control block version
4	(4)	SIGNED	4	PUR_UR_LENGTH	UR data length
8	(8)	BITSTRING	16	PUR_UR_URID	UR identifier
24	(18)	SIGNED	4	PUR_UR_STATE	UR state. Possible values (defined in ATRRASM): ATR_IN_RESET ATR_IN_FLIGHT ATR_IN_STATE_CHECK ATR_IN_PREPARE ATR_IN_DOUBT ATR_IN_COMMIT ATR_IN_BACKOUT ATR_IN_END ATR_IN_ONLY_AGENT ATR_IN_COMPLETION ATR_FORGOTTEN ATR_IN_FORGET
28	(1C)	BITSTRING	4	PUR_UR_EXIT_FLAGS	Exit flags. Mapped by ATRXPARMEXITFLAGS in ATRRASM
32	(20)	BITSTRING	4	PUR_UR_FLAGS	UR flags. Not externalized.
36	(24)	SIGNED	4	PUR_UR_LUWID_LENGTH	LUWID length. If zero, no LUWID for this UR
40	(28)	SIGNED	4	PUR_UR_EID_LENGTH	EID length. If zero, no EID for this UR
44	(2C)	CHARACTER	4	PUR_UR_RSV	Reserved
44	(2C)	X'30'	0	ATRSZPUR_UR_MORE_DATA	"*"
44	(2C)	X'30'	0	ATRSZPUR_UR_VERS_2_DATA	"*" PUR_UR Version 2 Data
48	(30)	SIGNED	4	PUR_UR_XID_OFFSET	Offset of the XID within the log block
52	(34)	BITSTRING	8	PUR_UR_FUNCTION_MAP	UR function map.
52	(34)	X'3C'	0	ATRSZPUR_UR_VERS_3_DATA	"*" PUR_UR Version 3 Data
60	(3C)	CHARACTER	32	PUR_UR_WORK_MANAGER_NAME	Work Manager Name.
92	(5C)	CHARACTER	8	PUR_UR_CREATE_TIME	GMT Time of UR creation.
92	(5C)	X'64'	0	ATRSZPUR_UR_VERS_4_DATA	"*" PUR_UR Version 4 Data
100	(64)	BITSTRING	16	PUR_UR_PARENT_URID	UR identifier of the parent UR

Table 246. Structure ATRSZPUR_UR_DATA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
116	(74)	SIGNED	4	PUR_UR_NEXTPUR_OFFSET	Offset of the next UR entry within the log block

Table 247. Structure ATRSZPUR_UR_READ_DATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSZPUR_UR_READ_DATA	UR data mapping - for read use only
0	(0)	CHARACTER	48	PUR_UR_R_BASE_DATA	UR data that is logged for all RRS releases
48	(30)	SIGNED	4	PUR_UR_R_XID_OFFSET	Offset of the XID within the log block
52	(34)	BITSTRING	8	PUR_UR_R_FUNCTION_MAP	UR function map
60	(3C)	CHARACTER	32	PUR_UR_R_WORK_MANAGER_NAME	Work Manager Name
92	(5C)	CHARACTER	8	PUR_UR_R_CREATE_TIME	GMT Time of UR Creation.
100	(64)	BITSTRING	16	PUR_UR_R_PARENT_URID	UR identifier of the parent UR
116	(74)	SIGNED	4	PUR_UR_R_NEXTPUR_OFFSET	Offset of the next UR entry within the log block

Table 248. Structure ATRSZPUR_URI_DATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSZPUR_URI_DATA	URI data mapping
0	(0)	SIGNED	4	PUR_URI_VERSION	Control block version
4	(4)	SIGNED	4	PUR_URI_LENGTH	URI data length
8	(8)	CHARACTER	32	PUR_URI_RMNAME	Resource manager name
40	(28)	SIGNED	4	PUR_URI_ROLE	URI role. Possible values (defined in ATRRASM): ATR_PARTICIPANT ATR_LAST_AGENT ATR_DSRM ATR_SDSRM
44	(2C)	SIGNED	4	PUR_URI_TWO_PHASE_PROTOCOL	URI protocol. Possible values (defined in ATRRASM): ATR_PRESUMED_NOTHING ATR_PRESUMED_ABORT
48	(30)	SIGNED	4	PUR_URI_COMMIT_EXITCODE	Commit code. Possible values (defined in ATRRASM): ATR_COMMIT_OK ATR_DRIVE_COMMIT_EXIT
52	(34)	SIGNED	4	PUR_URI_BACKOUT_EXITCODE	Backout code. Possible values (defined in ATRRASM): ATR_BACKOUT_OK ATR_DRIVE_BACKOUT_EXIT
56	(38)	SIGNED	4	PUR_URI_PDATA_LENGTH	Persistent data length. If zero, no persistent data for this URI.
60	(3C)	CHARACTER	8	PUR_URI_RM_INSTANCE_NUMBER	RM Instance Number. Used to identify complete units of recovery, that are logically deleted, but have not been compressed out of the UR State Logs.
68	(44)	CHARACTER	4	PUR_URI_RSV	Reserved

Table 249. Structure ATRSZPUR_HDR_DATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRSZPUR_HDR_DATA	Block header mapping
0	(0)	X'0'	0	LOGRECORD_HDR_BASE_DATA	"*" PUR_HDR base data
0	(0)	CHARACTER	8	LOGRECORDEYECATCHER	Log Block Eyecatcher
8	(8)	SIGNED	4	LOGRECORDVERSION	Log Block Version Number
12	(C)	SIGNED	4	BASELENGTH	Control block length
16	(10)	SIGNED	4	VARIABLELENGTH	Length of logged data
20	(14)	CHARACTER	8	LOGGINGSYSTEMNAME	Logging system name
28	(1C)	CHARACTER	26	LOGRECORDSTREAMNAME	Log stream name
54	(36)	CHARACTER	8	PREVIOUSBLOCKID	Block ID of previous logging for this UR
62	(3E)	CHARACTER	2	NOTUSED	Not used - force word boundary
BufferBlockSize ..... Not Used in ASM mapping					
62	(3E)	X'40'	0	LOGRECORD_HDR_VERS_2_DATA	"*" PUR_HDR Version 2 Data
64	(40)	CHARACTER	8	NEXTBLOCKID	The block ID of the previously logged block - used to perform a direct read for the next block of a multiblock log record
72	(48)	SIGNED	4	NEXTBLOCKPTR	Pointer to the next block within a multiblock log record (only meaningful while the log blocks are in storage)
76	(4C)	SIGNED	4	TOTALNUMOFBLOCKS	Total number of log blocks required to log the cascaded UR family
80	(50)	SIGNED	4	BLOCKNUMBER	Block number
80	(50)	X'54'	0	LOGRECORD_HDR_VERS_3_DATA	"*" PUR_HDR Version 3 Data
84	(54)	BITSTRING	4	LOGRECORDFLAGS(0)	Indicator flags
84	(54)	BITSTRING	1	LOGRECORDFLAGSBYTE1	Byte 1
		1...		LOGRECORDCFAMILY	"X'80'" This log block is part of a cascaded UR family
		.1..		LOGRECORDSYSPLEXFAMILY	"X'40'" This log block is part of a sysplex cascaded UR family
85	(55)	BITSTRING	1	LOGRECORDFLAGSBYTE2	Byte 2
86	(56)	BITSTRING	1	LOGRECORDFLAGSBYTE3	Byte 3
87	(57)	BITSTRING	1	LOGRECORDFLAGSBYTE4	Byte 4
88	(58)	CHARACTER	32	LOGRECORDSURID	SURID

Table 250. Cross Reference for ATRSZPUR

Name	Offset	Hex Tag
ATRSZPUR	0	
ATRSZPUR_HDR_DATA	0	
ATRSZPUR_UR_BASE_DATA	0	0
ATRSZPUR_UR_DATA	0	
ATRSZPUR_UR_MORE_DATA	2C	30
ATRSZPUR_UR_READ_DATA	0	
ATRSZPUR_UR_VERS_2_DATA	2C	30
ATRSZPUR_UR_VERS_3_DATA	34	3C
ATRSZPUR_UR_VERS_4_DATA	5C	64
ATRSZPUR_URI_DATA	0	
BASELENGTH	C	

Table 250. Cross Reference for ATRSZPUR (continued)

Name	Offset	Hex Tag
BLOCKNUMBER	50	
LOGGINGSYSTEMNAME	14	
LOGRECORD_HDR_BASE_DATA	0	0
LOGRECORD_HDR_VERS_2_DATA	3E	40
LOGRECORD_HDR_VERS_3_DATA	50	54
LOGRECORDCFAMILY	54	80
LOGRECORDEYECATCHER	0	
LOGRECORDFLAGS	54	
LOGRECORDFLAGSBYTE1	54	
LOGRECORDFLAGSBYTE2	55	
LOGRECORDFLAGSBYTE3	56	
LOGRECORDFLAGSBYTE4	57	
LOGRECORDSTREAMNAME	1C	
LOGRECORDSURID	58	
LOGRECORDSYSPLEXFAMILY	54	40
LOGRECORDVERSION	8	
NEXTBLOCKID	40	
NEXTBLOCKPTR	48	
NOTUSED	3E	
PREVIOUSBLOCKID	36	
PUR_AMOUNTTRUNCATED	14	
PUR_EYECATCHER	0	
PUR_HEADER	0	
PUR_INTEREST_COUNT	10	
PUR_LENGTH	C	
PUR_UR_CREATE_TIME	5C	
PUR_UR_EID_LENGTH	28	
PUR_UR_EXIT_FLAGS	1C	
PUR_UR_FLAGS	20	
PUR_UR_FUNCTION_MAP	34	
PUR_UR_LENGTH	4	
PUR_UR_LUWID_LENGTH	24	
PUR_UR_NEXTPUR_OFFSET	74	
PUR_UR_PARENT_URID	64	
PUR_UR_R_BASE_DATA	0	
PUR_UR_R_CREATE_TIME	5C	
PUR_UR_R_FUNCTION_MAP	34	
PUR_UR_R_NEXTPUR_OFFSET	74	
PUR_UR_R_PARENT_URID	64	
PUR_UR_R_WORK_MANAGER_NAME	3C	
PUR_UR_R_XID_OFFSET	30	
PUR_UR_RSV	2C	
PUR_UR_STATE	18	
PUR_UR_URID	8	
PUR_UR_VERSION	0	
PUR_UR_WORK_MANAGER_NAME	3C	
PUR_UR_XID_OFFSET	30	
PUR_URI_BACKOUT_EXITCODE	34	
PUR_URI_COMMIT_EXITCODE	30	

Table 250. Cross Reference for ATRSZPUR (continued)

Name	Offset	Hex Tag
PUR_URI_LENGTH	4	
PUR_URI_PDATA_LENGTH	38	
PUR_URI_RM_INSTANCE_NUMBER	3C	
PUR_URI_RMNAME	8	
PUR_URI_ROLE	28	
PUR_URI_RSV	44	
PUR_URI_TWO_PHASE_PROTOCOL	2C	
PUR_URI_VERSION	0	
PUR_VERSION	8	
TOTALNUMOFBLOCKS	4C	
VARIABLELENGTH	10	

Chapter 45. ATRTZRMD Information

ATRTZRMD Programming Interface Information

ATRTZRMD is a programming interface.

ATRTZRMD Heading Information

Common Name:	RRS RM Data Log Block
Macro ID:	ATRTZRMD
DSECT Name:	ATRTZRMD
Owning Component:	Resource Recovery Services (SCRRS)
Eye-Catcher ID:	ATRTCRMD Offset: 0 Length: 8
Storage Attributes:	Subpool: N/A Key: N/A Residency: N/A
Size:	252 bytes
Created by:	N/A
Pointed to by:	N/A
Serialization:	N/A
Function:	This macro contains constants and declares for the RRS RM Data log block

ATRTZRMD mapping

Table 251. Structure ATRTZRMD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRTZRMD	
0	(0)	CHARACTER	8	EYECATCHER	Control block eyecatcher
8	(8)	SIGNED	4	VERSIONNUM	Control block version
12	(C)	SIGNED	4	ENTRYLENGTH	Control block length
16	(10)	SIGNED	2	EVENTID	Last event for this block
18	(12)	BITSTRING	2	FLAGS(0)	
		1...		LOSSOFDATA	"X'80'" ON means that log data may have been lost that could affect this resource manager. When the resource manager restarts, it will be presented with a possible loss of data error.
		.1..		DATAINRESTARTLOG	"X'40'" When the RqdRstSystem field is blank, ON means that the resource manager has entries in the restart log. OFF means that the resource manager does not have entries in the restart log.
		..1.		RMD_RESTARTANYTIMESUPPORTED	

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Table 251. Structure ATRTZRMD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'20'" If ON, RM was last active on a restart anytime capable system. This will allow the RM to restart on any restart anytime capable system.
		...1		RMD_RINRESTARTANYWHEREMAYBE	
					"X'10'" IF ON, a removeint was done for this RM by an R6 system. RM restart processing on a pre-R6 system must prevent the RM from restarting if any interests are found. !
20	(14)	CHARACTER	32	RM_NAME	Resource Manager name
52	(34)	SIGNED	4	RMLOGNAMELENGTH	Resource Manager log name length
56	(38)	CHARACTER	64	RMLOGNAME	Resource Manager log name
120	(78)	CHARACTER	8	RQDRSTSYSTEM	System where the resource manager is required to restart with RRS. This field has no meaning for the RRS resource manager entry.
128	(80)	CHARACTER	8	LASTACTSYSTEM	System where the resource manager was last active with RRS. This field has no meaning for the RRS resource manager entry.
136	(88)	CHARACTER	8	LOGGINGSYSTEM	System which wrote the log entry
144	(90)	CHARACTER	32	RRS_ENTRY_DATA(0)	Union for RRS Version Data !
		The log stream versions are valid only for the RRS resource manager log entry			
144	(90)	CHARACTER	8	RMD_MAINURLOGSTREAMVERSION	Main UR log stream version token
152	(98)	CHARACTER	8	RMD_DELAYEDURLOGSTREAMVERSION	Delayed UR log stream version token
160	(A0)	CHARACTER	8	RMD_RESTARTLOGSTREAMVERSION	Restart log stream version token
168	(A8)	CHARACTER	8	RMD_RMMETADATALOGSTREAMVERSION	RM Meta Data log stream version token !
144	(90)	CHARACTER	24		Unused space to get RMD_LOG_INSTANCE_NUMBER at the correct offset. !
168	(A8)	CHARACTER	8	RMD_LOG_INSTANCE_NUMBER	RM Instance Number used to differentiate log entries in the UR state logs that completed, logically deleted, but have yet to be compressed out of the logs.
252	(FC)	X'FC'	0	ATRTZRMD_LEN	"*-ATRTZRMD"

Table 252. Cross Reference for ATRTZRMD

Name	Offset	Hex Tag
ATRTZRMD	0	

Table 252. Cross Reference for ATRTZRMD (continued)

Name	Offset	Hex Tag
ATRTZRMD_LEN	FC	FC
DATAINRESTARTLOG	12	40
ENTRYLENGTH	C	
EVENTID	10	
EYECATCHER	0	
FLAGS	12	
LASTACTSYSTEM	80	
LOGGINGSYSTEM	88	
LOSSOFDATA	12	80
RM_NAME	14	
RMD_DELAYEDURLOGSTREAMVERSION	98	
RMD_LOG_INSTANCE_NUMBER	A8	
RMD_MAINURLOGSTREAMVERSION	90	
RMD_RESTARTANYTIMESUPPORTED	12	20
RMD_RESTARTLOGSTREAMVERSION	A0	
RMD_RINRESTARTANYWHEREMAYBE	12	10
RMD_RMMETADATALOGSTREAMVERSION	A8	
RMLOGNAME	38	
RMLOGNAMELENGTH	34	
RQDRSTSYSTEM	78	
RRS_ENTRY_DATA	90	
VERSIONNUM	8	

Chapter 46. ATTCH Information

ATTCH Heading Information

Common Name: Attach Parameter List DSECT
Macro ID: IEZATTCH
DSECT Name: ATTCHLST
Owning Component: Task Manager (SC1CL)
Eye-Catcher ID: None
Storage Attributes: Subpool: User subpool
Key: User key
Size: 72 bytes
Created by: ATTACH macro
Pointed to by: Resides in user's area
Serialization: None
Function: This macro provides a mapping of the parameter list which serves as the input to the ATTACH service routine (SVC 42).

ATTCH mapping

Table 253. Structure ATTCHLST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	72	ATTCHLST	
0	(0)	ADDRESS	4	ATPGNADA	ENTRY ADDRESS
4	(4)	ADDRESS	4	ATDCBADA	DCB ADDRESS
8	(8)	ADDRESS	4	ATECBADR	ECB ADDRESS
		1...		ATNFORM	INDICATES PLIST FORMAT NUMBER IN FIELD ATFORMNM
12	(C)	ADDRESS	4	ATGSFLDA	SUBPOOL VAL OR ADDR
16	(10)	ADDRESS	4	ATSHFLDA	SHARE SUBPOOL VALUE OR ADDRESS
20	(14)	ADDRESS	4	ATETXRA	ETXR ADDRESS
24	(18)	SIGNED	2	ATDPMOD	DISPATCHING PRIORITY
26	(1A)	ADDRESS	1	ATLPMOD	LIMIT PRIORITY
27	(1B)	CHARACTER	1	ATINDS	OPTION FLAGS
OPTION FLAGS BIT ON = KEYWORD PROVIDED					
		1...		ATDISP	'DISP=NO' KEYWORD PROVIDED
		.1..		ATJSCB	'JSCB' ADDRESS GIVEN
		..1.		ATJPQ	'GIVEJPQ=YES' GIVEN
		...1		ATKEY	'KEY=ZERO' KEYWORD
		.... 1...		ATSZERO	'SZERO=NO' KEYWORD
		.... .1..		ATSVAREA	'SVAREA=NO' KEYWORD
		.... ..1.		ATJSTCB	'JSTCB=YES' KEYWORD
		1		ATMODE	'SM=SUPV' KEYWORD
28	(1C)	CHARACTER	8	ATPRGNM	PROGRAM NAME
36	(24)	ADDRESS	4	ATJSCBAD	JSCB ADDRESS
40	(28)	ADDRESS	4	ATSTAIAD	ADDR OF E/STAI PLIST
44	(2C)	ADDRESS	4	ATSTAIEX	ADDR OF E/STAI EXIT
48	(30)	ADDRESS	4	ATTASKLB	ADDR OF TASK LIB DCB

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Table 253. Structure ATTCHLST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	ADDRESS	1	ATFLAGS1	FLAGS
		1...		ATNSHRSP	0-FIELD ATTNSHLV CONTAINS A SUBPOOL NUMBER, 1-FIELD ATTNSHLV CONTAINS THE ADDRESS OF A LIST
		.1..		ATRSAPF	IF ON, ATTACHOR REQUESTED APF AUTHORIZATION RESET (MDC300)
		..1.		ATALCOPY	COPY THE ATTACHING TASK'S ACCESS LIST AND EAX TO THE NEW TASK.
		...1		ATNTERM	1-TERM=YES,0-TERM=NO
		.... 1...		ATNESTAI	1-ESTAI SPECIFIED 0-NOT SPECIFIED
		.... .1..		ATNSYNCH	1-ASYNCH=YES 0-ASYNCH=NO
		11		ATNPURGE	PURGE PARM VALUES
53	(35)	ADDRESS	1	ATNTID	TASK ID
54	(36)	SIGNED	2	ATTPLNG	LENGTH OF THIS PARM LIST, IN BYTES
56	(38)	ADDRESS	4	ATTNSHLV	NSHSPV OR NSHSPL
60	(3C)	ADDRESS	1	ATFLAGS2	FLAGS
		1...		ATNDENT	DIRECTORY ENTRY
		.1..		ATNGIVSP	SUBPOOLS TO BE GIVEN ARE IN LIST
		..1.		ATNSHSP	SUBPOOLS TO BE SHARED ARE IN LIST
		...1		ATAPFLIB	1 - MODULE MUST COME FROM APF LIBRARY
		.... 1...		ATRSV042	RESERVED
		.... .1..		ATRSV043	RESERVED
		.... ..1.		ATNTSKLB	TASKLIB DCB PRESENT
		1		ATNTSTAI	STAI OR ESTAI EXIT ADDR PRESENT
61	(3D)	CHARACTER	1	ATFORMNM	FORMAT NUMBER 1 = SP2.1-31-BIT SUPPORT 2 = SP3.1-AR SUPPORT 3 = SP4.3-DISP(RESET) WITH TCB
62	(3E)	CHARACTER	10	ATRSV040	RESERVED

Table 254. Cross Reference for ATTCH

Name	Offset	Hex Tag
ATALCOPY	34	20
ATAPFLIB	3C	10
ATDCBADA	4	
ATDISP	1B	80
ATDPMOD	18	
ATECBADR	8	
ATETXRA	14	
ATFLAGS1	34	
ATFLAGS2	3C	
ATFORMNM	3D	
ATGSFLDA	C	
ATINDS	1B	
ATJPQ	1B	20
ATJSCB	1B	40
ATJSCBAD	24	

Table 254. Cross Reference for ATTCH (continued)

Name	Offset	Hex Tag
ATJSTCB	1B	02
ATKEY	1B	10
ATLPMOD	1A	
ATMODE	1B	01
ATNDENT	3C	80
ATNESTAI	34	08
ATNFORM	8	80
ATNGIVSP	3C	40
ATNPURGE	34	03
ATNSHRSP	34	80
ATNSHSP	3C	20
ATNSYNCH	34	04
ATNTERM	34	10
ATNTID	35	
ATNTSKLB	3C	02
ATNTSTAI	3C	01
ATPGNADA	0	
ATPRGNM	1C	
ATRSAPF	34	40
ATRSV040	3E	
ATRSV042	3C	08
ATRSV043	3C	04
ATSHFLDA	10	
ATSTAIAD	28	
ATSTAIEX	2C	
ATSVAREA	1B	04
ATSZERO	1B	08
ATTASKLB	30	
ATTCHLST	0	
ATTNSHLV	38	
ATTPLNG	36	

Chapter 47. AXAT Information

AXAT Heading Information

Common Name:	AUTHORIZATION INDEX ALLOCATION TABLE
Macro ID:	IHAAXAT
DSECT Name:	AXAT
Owning Component:	PC/AUTH (SCXMS)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 229 Key: 0 Residency: Above 16M in PC/Auth private area
Size:	Variable length
Created by:	IEAVXMAS
Pointed to by:	XMDAXAT
Serialization:	PC/AUTH ADDRESS SPACE LOCAL LOCK
Function:	Maps the AXAT. The AXAT contains a record of the ASID for which an authorization index (AX) is currently reserved.

AXAT mapping

Table 255. Structure AXAT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	AXAT	AUTHORIZATION INDEX ALLOCATION TABLE (AXAT)
0	(0)	CHARACTER	16	AXATHDR	ALLOCATION TABLE HEADER
0	(0)	CHARACTER	4	AXATNAME	EBCDIC ACRONYM AXAT
4	(4)	SIGNED	4	AXATCT	COUNT OF ENTRIES IN THE AXAT
8	(8)	SIGNED	4	AXATAVAL	COUNT OF AXAT ENTRIES THAT ARE CURRENTLY AVAILABLE (UNRESERVED)
12	(C)	SIGNED	4	AXATRSVD	RESERVED
16	(10)	CHARACTER	12	AXATENT(*)	AUTHORIZATION INDEX ENTRY. THE FIRST TWO AX ENTRIES ARE PERMANENTLY ASSIGNED. 0 IS UNAUTHORIZED, 1 IS SYSTEM AUTHORIZED. ALL OTHER ENTRIES ARE ZERO WHEN UNRESERVED, OR CONTAIN A STOKEN VALUE WHEN RESERVED.
16	(10)	CHARACTER	12	AXATENTY	ALTERNATE NAME FOR AUTHORIZATION INDEX ENTRY.
16	(10)	CHARACTER	8	AXATSTKN	STOKEN OF THE OWNING ADDRESS SPACE
24	(18)	UNSIGNED	2	AXATETC	COUNT OF ENTRY TABLES WHICH USE THIS AX AS AN EAX
26	(1A)	BITSTRING	1	AXATFLG1	AXAT ENTRY FLAG BYTE
		1...		AXATEAXC	EAX EXISTS OR HAS EXISTED IN AN ET WHICH HAD BEEN CONNECTED
		.111 1111		*	RESERVED
27	(1B)	CHARACTER	1	AXATRSV1	RESERVED

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AXAT mapping

Table 256. Cross Reference for AXAT

Name	Offset	Hex Tag
AXAT	0	
AXATAVAL	8	
AXATCT	4	
AXATEAXC	1A	80
AXATENT	10	
AXATENTY	10	
AXATETC	18	
AXATFLG1	1A	
AXATHDR	0	
AXATNAME	0	
AXATRSVD	C	
AXATRSV1	1B	
AXATSTKN	10	

Chapter 48. AXRZARG Information

AXRZARG Programming Interface Information

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

- AXREXIT

AXRZARG Heading Information

Common Name:	AXR Argument/Variable list mapping
Macro ID:	AXRZARG
DSECT Name:	N/A
Owning Component:	System Rexx (SCAXR)
Eye-Catcher ID:	ARGL or VARL Offset: 0 Length: 4
Storage Attributes:	Subpool: Any Key: ANY Residency: Callers address space above or below the bar
Size:	N/A AXRARGLST -- X'0010' bytes AXRARGENTRY -- X'0028' bytes AXRDIAG -- X'0028' bytes AXRRXLHEADER -- X'0018' bytes AXRRXLENTRY -- X'0040' bytes
Created by:	Caller of AXREXX
Pointed to by:	N/A
Serialization:	N/A
Function:	Contains System REXX external control blocks, including mappings of the argument/variable list and the DIAG area for the AXREXX service.

AXRZARG mapping

Table 257. Structure AXRARGLST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	AXRARGLST	
0	(0)	CHARACTER	4	AXRARGLSTID	Use AxrArgLstAcro for REXXArgLst and AxrVarLstAcro for REXXVarLst
4	(4)	BITSTRING	1	AXRARGLSTVER	
5	(5)	CHARACTER	3	AXRARGLSTRSV1	Reserved - must be 0
8	(8)	SIGNED	2	AXRARGLSTNUMBER	Number of arguments
10	(A)	SIGNED	2	AXRARGLSTENTRYINERROR	Output argument in error
12	(C)	CHARACTER	4	AXRARGLSTRSV2	Reserved - must be 0
16	(10)	CHARACTER	1	AXRARGLSTEND(0)	
16	(10)	X'D9C7D3'	0	AXRARGLSTACRO	"C'ARGL'"
16	(10)	X'C1D9D3'	0	AXRVARLSTACRO	"C'VARL'"
16	(10)	X'0'	0	AXRARGLSTCURVER	"0"
16	(10)	X'0'	0	AXRARGLSTVER0	"0" Version 0
16	(10)	X'10'	0	AXRARGLST_LEN	"*-AXRARGLST"

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AXRZARG mapping

Table 258. Structure AXRARGENTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	AXRARGENTRY	
0	(0)	ADDRESS	8	AXRARGADDR	Address of argument
0	(0)	SIGNED	4	AXRARGADDRHIGH	High half of address
4	(4)	ADDRESS	4	AXRARGADDRLOW	Low half of address
8	(8)	ADDRESS	8	AXRARGNAMEADDR	Address of the name of the argument. This is required for all variables and output arguments
8	(8)	SIGNED	4	AXRARGNAMEADDRHIGH	High half of address
12	(C)	ADDRESS	4	AXRARGNAMEADDRLOW	Low half of address
16	(10)	SIGNED	4	AXRARGLENGTH	Length of arg/var in bytes
20	(14)	SIGNED	4	AXRARGALET	Alet of arg/var
24	(18)	SIGNED	4	AXRARGNAMEALET	Alet of name of arg/var
28	(1C)	SIGNED	4	AXRARGOUTLENGTH	Length of the arg/var copied to the buffer of the caller. Set by system REXX. For HexString type, this value is in hex digits. For BitString type, this value is in bits. For type char, this value is in bytes. For numeric values, the input length is returned
32	(20)	BITSTRING	1	AXRARGNAMELENGTH	Length of argument name in bytes
33	(21)	BITSTRING	1	AXRARGTYPE	Type of arg i.e. signed, unsigned, char, bit or hex. See constant definitions
34	(22)	BITSTRING	1	AXRARGINPUTFLGS1	
Bit definitions:					
		1...		AXRARGINPUT	"X'80'" Input argument
		.1..		AXRARGOUTPUT	"X'40'" Output argument
		..11 1111		AXRARGRES1	"X'3F'" Reserved - must be 0
35	(23)	CHARACTER	5	AXRARGRES2	Reserved - must be 0
40	(28)	CHARACTER	1	AXRARGEND(0)	End of entry
40	(28)	X'1'	0	AXRARGTYPESIGNED	"1" Argument is signed type. Valid lengths are 4 and 8 (in bytes)
40	(28)	X'2'	0	AXRARGTYPEUNSIGNED	"2" Argument is unsigned type. Valid lengths are 4 and 8 (in bytes)
40	(28)	X'3'	0	AXRARGTYPECHAR	"3" Argument is character type. Length must be less than or equal to 512 bytes
40	(28)	X'4'	0	AXRARGTYPEBITSTRING	"4" Argument is bit string type. Length must be less than or equal to 32 bits
40	(28)	X'5'	0	AXRARGTYPEHEXSTRING	"5" Argument is hex string type. Length must be less than or equal to 512 hex digits
40	(28)	X'E7D9C4'	0	AXRDIAGACRO	"C'AXRD'" Acronym for the AXRDiag
40	(28)	X'0'	0	AXRDIAGVER0	"0" Original version of AXRDIAG
40	(28)	X'1'	0	AXRDIAGVER1	"1" Version 1 of AXRDiag
40	(28)	X'1'	0	AXRDIAGCURVER	"1" Current version of AXRDIAG
40	(28)	X'28'	0	AXRARGENTRY_LEN	"*-AXRARGENTRY"

Table 259. Structure AXRDIAG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	AXRDIAG	
0	(0)	CHARACTER	4	AXRDIAGHEADER	
0	(0)	BITSTRING	1	AXRDIAGVER	
1	(1)	BITSTRING	1	AXRDIAGFLGS1	
Bit definitions:					
		1...		AXRDIAGNOEXECRETCODE	"X'80'" When on, indicates that AXREXX was unable to obtain a return code from the exec, because the exec did not return one or because it was too small, large or could not be converted to binary
2	(2)	CHARACTER	2		
4	(4)	CHARACTER	20	AXRDIAGDATA	
4	(4)	SIGNED	4	AXRDIAGEXECRETCODE	Return code from exec
8	(8)	SIGNED	4	AXRDIAG1	
12	(C)	SIGNED	4	AXRDIAG2	
16	(10)	SIGNED	4	AXRDIAG3	
20	(14)	SIGNED	4	AXRDIAG4	
24	(18)	CHARACTER	4	AXRDIAGID	Eye-catcher
28	(1C)	CHARACTER	12		Reserved
The REXXLIB output parameter is mapped by the AxrRxlHeader followed by one or more AxrRxlEntry(s) - one for each data set in the REXXLIB concatenation.					
28	(1C)	X'E7D9D9'	0	AXRRXLACRO	"C'AXRR'"
28	(1C)	X'0'	0	AXRRXLVER0	"0"
28	(1C)	X'28'	0	AXRDIAG_LEN	"*-AXRDIAG"

Table 260. Structure AXRRXLHEADER

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	AXRRXLHEADER	
0	(0)	CHARACTER	4	AXRRXLID	
4	(4)	SIGNED	4	AXRRXLLEN	Length of AxrRxlHeader - use this to access the first entry
8	(8)	SIGNED	4	AXRRXLCONCATNUM	Number of datasets in the concatenation
12	(C)	SIGNED	4	AXRRXLTOTALLEN	Length of the entire output including AxrRxlHeader and any AxrRxlEntry(s) that follow
16	(10)	BITSTRING	1	AXRRXLVER	Version
17	(11)	CHARACTER	7		Reserved
Use AxrRxlEntryLen to access the next AxrRxlEntry from the prior one.					
17	(11)	X'E7D3C5'	0	AXRRXLENTRYACRO	"C'RXLE'"
17	(11)	X'18'	0	AXRRXLHEADER_LEN	"*-AXRRXLHEADER"

AXRZARG mapping

Table 261. Structure AXRRXLENTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	AXRRXLENTRY	
0	(0)	CHARACTER	4	AXRRXLENTRYID	
4	(4)	SIGNED	4	AXRRXLENTRYLEN	Length of a single entry - use this to access the next entry
8	(8)	SIGNED	2	AXRRXLDSNAMELEN	Length of data set name
10	(A)	CHARACTER	44	AXRRXLDSNAME	Data set name
54	(36)	SIGNED	2	AXRRXLVOLSERLEN	Length of volser
56	(38)	CHARACTER	6	AXRRXLVOLSER	Volser
62	(3E)	CHARACTER	2		Reserved
62	(3E)	BITSTRING	0	AXRRSNCODEMASK	"X'0000FFFF'" Mask to isolate external reason code.
AXREXX Return and Reason Code definitions					
		....		AXRRETCODEOK	"X'00000000'" Meaning: AXREXX request successful. Action: None required. If RexxDiag was specified, AXRDIAG1, AXRDIAG2, AXRDIAG3 and AXRDIAG4 contain the message ids of any messages beginning with IRX (REXX) or IKJ (TSO) that were issued when processing the exec. The format of the message id is packed decimal with the sign bits shifted out. A 1 in the high order byte distinguishes an IKJ message from an IRX message.
		.... 1...		AXRRETCODEERROR	"X'00000008'" Meaning: The AXREXX request failed due to a user error. Action: Refer to the action provided with the specific reason code.
62	(3E)	BITSTRING	0	AXRNOFRRALLOWED	"X'00000801'" Meaning: Caller invoked AXREXX with an FRR. Action: Remove the FRR and then invoke AXREXX.
62	(3E)	BITSTRING	0	AXRNOLOCKSALLOWED	"X'00000802'" Meaning: Caller invoked AXREXX holding a lock. Action: Free the lock and then invoke AXREXX.
62	(3E)	BITSTRING	0	AXRNOTTCBMODE	"X'00000803'" Meaning: Caller was not running as a task. Action: Move the invocation of AXREXX under a task.
62	(3E)	BITSTRING	0	AXRNOTAUTHORIZED	"X'00000804'" Meaning: Caller is not APF authorized, running in a system key or in supervisor state. Action: Avoid invoking AXREXX in this environment.
62	(3E)	BITSTRING	0	AXRNOTENABLED	"X'00000805'" Meaning: Caller is disabled. Action: Avoid invoking AXREXX in this environment.

Table 261. Structure AXRRXLENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
62	(3E)	BITSTRING	0	AXRREXXARGSCANNOTACCESS	"X'00000806'" Meaning: The RexxArgs parameter is not accessible. Action: Verify that the RexxArgs parameter is accessible and in the key in which AXREXX was invoked.
62	(3E)	BITSTRING	0	AXRARGCANNOTACCESS	"X'00000807'" Meaning: An argument in the argument list cannot be accessed. Action: Refer to AxrArgLstEntryInError in the RexxArgs parameter to determine the index of the argument that was not accessible. Ensure that AxrArgAddr and AxrArgAlet contain the address and alet of the argument. Ensure that the argument is in the same key as the invoker.
62	(3E)	BITSTRING	0	AXRARGBADLENGTH	"X'00000808'" Meaning: The length of an argument is not valid. Action: Refer to AxrArgLstEntryInError in the RexxArgs parameter to determine the index of the argument whose length was incorrect. Correct AxrArgLength.
62	(3E)	BITSTRING	0	AXRARGBADTYPE	"X'00000809'" Meaning: Type of an argument is invalid. Action: Refer to AxrArgLstEntryInError in the RexxArgs parameter to determine the index of the argument whose type is incorrect. Correct AxrArgType with one of the valid types listed in AXRZARG.
62	(3E)	BITSTRING	0	AXRPLISTCANNOTACCESS	"X'0000080A'" Meaning: The input parameter list was not accessible Action: Verify that the input parameter list is in the same key as the invoker. Verify that it is accessible.
62	(3E)	BITSTRING	0	AXRARGTOOMANY	"X'0000080B'" Meaning: Too many arguments were specified. Action: Verify the contents of AxrArgLstNumber in the RexxArgs parameter. The maximum possible value is 20.

Table 261. Structure AXRRXLENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
62	(3E)	BITSTRING	0	AXRARGBADNUMERIC	"X'0000080C'" Meaning: An output argument from a REXX exec is not numeric. Action: Refer to AxrArgLstEntryInError in the RexxArgs parameter for the index of the invalid argument. Make sure that the REXX exec did not return a value in scientific notation.
62	(3E)	BITSTRING	0	AXRARGBADBITSTRING	"X'0000080D'" Meaning: An output argument from a REXX exec is not a bit string. Action: Refer to AxrArgLstEntryInError in the RexxArgs parameter for the index of the invalid argument. Correct the exec or change AxrArgType.
62	(3E)	BITSTRING	0	AXRARGBADHEXSTRING	"X'0000080E'" Meaning: An output argument from a REXX exec is not a hex string. Action: Refer to AxrArgLstEntryInError in the RexxArgs parameter for the index of the invalid argument. Correct the exec or change AxrArgType.
62	(3E)	BITSTRING	0	AXRARGBADNAMELENGTH	"X'00000810'" Meaning: The length of the name of an argument is too long. Action: Refer to AxrArgLstEntryInError in the RexxArgs parameter for the index of the invalid argument. Correct AxrArgNameLength.
62	(3E)	BITSTRING	0	AXRNOTABLETOALLOCATEREXXINDSN	"X'00000811'" Meaning: System REXX was unable to allocate the REXXINDsn dataset. Action: The return and reason codes from DYNALLOC are inserted into AXRDIAG1 and AXRDIAG2 in the RexxDiag parameter. Look up the return/reason codes in the z/OS MVS Authorized Assembler Services Guide. Look in the System Log for any messages that were issued by DYNALLOC.
62	(3E)	BITSTRING	0	AXRNOTABLETOALLOCATEREXXOUTDSN	

Table 261. Structure AXRRXLENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000812'" Meaning: System REXX was unable to allocate the RexxOutDsn dataset. Action: The return and reason codes from DYNALLOC are inserted into AXRDIAG1 and AXRDIAG2 in the RexxDiag parameter. Look up the return/reason codes in the z/OS MVS Authorized Assembler Services Guide. Look in the System Log for any messages that were issued by DYNALLOC.
62	(3E)	BITSTRING	0	AXRUTOKENCANNOTACCESS	"X'00000813'" Meaning: Unable to access the Utoken input parameter. Action: Ensure that the Utoken input parameter is in the key of the AXREXX invoker and that it is accessible.
62	(3E)	BITSTRING	0	AXRREXXINDSNCANNOTACCESS	"X'00000814'" Meaning: Unable to access the RexxInDsn input parameter. Action: Ensure that the RexxInDsn input parameter is in the key of the AXREXX invoker and that it is accessible.
62	(3E)	BITSTRING	0	AXRREXXOUTDSNCANNOTACCESS	"X'00000815'" Meaning: Unable to access the RexxOutDsn input parameter. Action: Ensure that the RexxOutDsn input parameter is in the key of the AXREXX invoker and that it is accessible.
62	(3E)	BITSTRING	0	AXRREXXVARSCANNOTACCESS	"X'00000816'" Meaning: The RexxVars parameter is not accessible. Action: Verify that the RexxVars parameter is accessible and in the key in which AXREXX was invoked.
62	(3E)	BITSTRING	0	AXRBADTIMEINT	"X'00000817'" Meaning: The value of the Timeint keyword is invalid. Action: Ensure that the value of the TimeInt keyword is less than 21474536 seconds.
62	(3E)	BITSTRING	0	AXRARGBADACRONYM	"X'00000818'" Meaning: The acronym for the RexxArgs keyword is incorrect. Action: Ensure that AxrArgLstId is set to AxrArgLstAcro.
62	(3E)	BITSTRING	0	AXRVARBADACRONYM	"X'00000819'" Meaning: The acronym for the RexxVars keyword is incorrect. Action: Ensure that AxrArgLstId is set to AxrVarLstAcro.

Table 261. Structure AXRRXLENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
62	(3E)	BITSTRING	0	AXRARGBADVERSION	"X'0000081A'" Meaning: The version for the RexxArgs keyword is incorrect. Action: Ensure that version is one that is supported.
62	(3E)	BITSTRING	0	AXRVARBADVERSION	"X'0000081B'" Meaning: The version for the RexxVars keyword is incorrect. Action: Ensure that the version is one that is supported.
62	(3E)	BITSTRING	0	AXRVARTOOMANY	"X'0000081C'" Meaning: Too many variables were specified. Action: Verify the contents of AxrArgLstNumber in the RexxVars parameter. The maximum possible value is 256.
62	(3E)	BITSTRING	0	AXRVARBADNUMERIC	"X'0000081D'" Meaning: An output variable from a REXX exec is not numeric. Action: Refer to AxrArgLstEntryInError in the RexxVars parameter for the index of the invalid variable. Make sure that the REXX exec did not return a value in scientific notation.
62	(3E)	BITSTRING	0	AXRVARBADBITSTRING	"X'0000081E'" Meaning: An output variable from a REXX exec is not a bit string. Action: Refer to AxrArgLstEntryInError in the RexxVars parameter for the index of the invalid variable. Correct the exec or change AxrArgType.
62	(3E)	BITSTRING	0	AXRVARBADHEXSTRING	"X'0000081F'" Meaning: An output variable from a REXX exec is not a hex string. Action: Refer to AxrArgLstEntryInError in the RexxVars parameter for the index of the invalid variable. Correct the exec or change AxrArgType.
62	(3E)	BITSTRING	0	AXRVARBADNAMELENGTH	"X'00000820'" Meaning: The length of the name of a variable is too long. Action: Refer to AxrArgLstEntryInError in the RexxVars parameter for the index of the invalid variable. Correct AxrArgNameLength.
62	(3E)	BITSTRING	0	AXRVARBADTYPE	"X'00000821'" Meaning: The type specification for a variable is invalid. Action: Refer to AxrArgLstEntryInError in the RexxVars parameter for the index of the invalid variable. Correct AxrArgType with one of the valid types listed in AXRZARG.

Table 261. Structure AXRRXLENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
62	(3E)	BITSTRING	0	AXRVARCANNOTACCESS	"X'00000822'" Meaning: A variable could not be accessed. Action: Refer to AxrArgLstEntryInError in the RexxVars parameter for the index of the variable that could not be accessed. Ensure that AxrArgAddr and AxrArgAlet contain the address and alet of the variable. Ensure that the variable is in the same key as the invoker.
62	(3E)	BITSTRING	0	AXRVARBADLENGTH	"X'00000823'" Meaning: The length of a variable was invalid. Action: Refer to AxrArgLstEntryInError in the RexxVars parameter for the index of the variable whose length is invalid. Correct AxrArgLength.
62	(3E)	BITSTRING	0	AXRARGLSTRSVNOTZERO	"X'00000824'" Meaning: A reserved field in the AXRARGLST mapping was non-zero for the RexxArgs AXREXX parameter. Action: Clear the reserved fields in the AXRARGLST mapping.
62	(3E)	BITSTRING	0	AXRVARLSTRSVNOTZERO	"X'00000825'" Meaning: A reserved field in the AXRARGLST mapping was non-zero for the RexxVars AXREXX parameter. Action: Clear the reserved fields in the AXRARGLST mapping.
62	(3E)	BITSTRING	0	AXRNOTABLETOUNALLOCATEREXXINDSN	"X'00000826'" Meaning: A bad return code was returned from DYNALLOC when attempting to unallocate the RexxinDsn dataset. Action: The return and reason codes from DYNALLOC are inserted into AXRDIAG1 and AXRDIAG2 in the RexxDiag parameter. Look in the System Log for any messages that DYNALLOC may have issued.
62	(3E)	BITSTRING	0	AXRNOTABLETOUNALLOCATEREXXOUTDSN	"X'00000827'" Meaning: A bad return code was returned from DYNALLOC when attempting to unallocate the RexxOutDsn dataset. Action: The return and reason codes from DYNALLOC are inserted into AXRDIAG1 and AXRDIAG2 in the RexxDiag parameter. Look in the System Log for any messages that DYNALLOC may have issued.

Table 261. Structure AXRRXLENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
62	(3E)	BITSTRING	0	AXREXECSYNTAXERROR	"X'00000828'" Meaning: A syntax error or some other run time error was encountered during the execution of a REXX exec. Action: The REXX interpreter issues one or more error messages that indicate the offending line number. If RexxOutDsn is specified, look at the dataset for the message. If RexxOutDsn is not specified but ConsData is specified, look at the console or the system log. If RexxDiag is specified, AXRDIAG1 contains the number of the error which corresponds to an IRXnnnI message, AXRDIAG2 contains the line number where the error occurred and AXRDIAG3 and AXRDIAG4 contain the message ids of the last two IRX or IKJ messages that were issued before the exec completed. All of these values are in packed decimal format with the sign bits shifted out. A 1 in the high order byte distinguishes an IKJ message from an IRX message.
62	(3E)	BITSTRING	0	AXRARGNUMERICTOOBIG	"X'0000082A'" Meaning: The value of an output argument was either too large or too small (negative) to be represented in the storage area that was passed. Action: Inspect AxrArgLstEntryInError in the RexxArgs parameter for the index of the argument that caused the error.
62	(3E)	BITSTRING	0	AXRVARNOEXIST	"X'0000082B'" Meaning: The output variable was not set in the exec. Action: Inspect AxrArgLstEntryInError in the RexxVars parameter for the index of the variable that caused the error. Determine why this variable was not set in the exec.
62	(3E)	BITSTRING	0	AXRARGNOEXIST	"X'0000082C'" Meaning: The output argument was not set in the exec. Action: Inspect AxrArgLstEntryInError in the RexxArgs parameter for the index of the argument that caused the error. Determine why this argument was not set in the exec.

Table 261. Structure AXRRXLENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
62	(3E)	BITSTRING	0	AXRVARTOOLONG	"X'0000082D'" Meaning: The buffer of the client could not accommodate the value of the variable. Action: Inspect AxrArgLstEntryInError in the RexxVars parameter for the index of the variable that caused the error. Increase the size of the output variable or ensure that the variable's size can be accommodated by the passed buffer.
62	(3E)	BITSTRING	0	AXRARGTOOLONG	"X'0000082E'" Meaning: The buffer of the client could not accommodate the value of the argument. Action: Inspect AxrArgLstEntryInError in the RexxArgs parameter for the index of the argument that caused the error. Increase the size of the output argument or ensure that the argument's size can be accommodated by the passed buffer.
62	(3E)	BITSTRING	0	AXRVARBADNAME	"X'0000082F'" Meaning: The name of a variable was not acceptable to REXX. Action: Inspect AxrArgLstEntryInError in the RexxVars parameter for the index of the variable that caused the error. Correct the name.
62	(3E)	BITSTRING	0	AXRARGBADNAME	"X'00000830'" Meaning: The name of an argument was not acceptable to REXX. Action: Inspect AxrArgLstEntryInError in the RexxArgs parameter for the index of the argument that caused the error. Correct the name.
62	(3E)	BITSTRING	0	AXRVARNUMERICTOOBIG	"X'00000831'" Meaning: The value of an output variable was either too large or too small (negative) to be represented in the storage area that was passed. Action: Inspect AxrArgLstEntryInError in the RexxVars parameter for the index of the variable that caused the error.

Table 261. Structure AXRRXLENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
62	(3E)	BITSTRING	0	AXRARGNAMECANNOTACCESS	"X'00000832'" Meaning: The argument name was not accessible. Action: Inspect AxrArgLstEntryInError in the RexxArgs parameter for the index of the argument that caused the error. Ensure that AxrArgNameAddr and AxrArgNameAlet contain the address and alet of the argument name. Ensure that the argument name is in the same key as the invoker.
62	(3E)	BITSTRING	0	AXRVARNAMECANNOTACCESS	"X'00000833'" Meaning: The variable name was inaccessible and caused a program check when System REXX attempted to access. Action: Inspect AxrArgLstEntryInError in the RexxVars parameter for the index of the variable that caused the error. Ensure that AxrArgNameAddr and AxrArgNameAlet contain the address and alet of the variable name. Ensure that the variable name is in the same key as the invoker.
62	(3E)	BITSTRING	0	AXRDIAGCANNOTACCESS	"X'00000835'" Meaning: The value of the RexxDiag parameter was not accessible. Action: Ensure the RexxDiag parameter is in the same key as the invoker. Correct the RexxDiag parameter.
62	(3E)	BITSTRING	0	AXRARGNEITHERINOROUT	"X'00000837'" Meaning: A REXX argument is neither an input or output argument. Action: Inspect AxrArgLstEntryInError in the RexxArgs parameter for the index of the offending argument and set either AXRArgInput, AXRArgOutput or both in the argument list entry.
62	(3E)	BITSTRING	0	AXRVARNEITHERINOROUT	"X'00000838'" Meaning: A REXX variable is neither an input or output variable. Action: Inspect AxrArgLstEntryInError in the RexxVars parameter for the index of the offending variable and set either AXRArgInput, AXRArgOutput or both in the entry in variable list entry.

Table 261. Structure AXRRXLENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
62	(3E)	BITSTRING	0	AXRARGBADUNSIGNED	"X'00000839'" Meaning: An unsigned output argument returned from REXX was prefixed with a sign. Action: AxrArgLstEntryInError in the RexxArgs parameter contains the index of the invalid argument. Correct the REXX exec to return an unsigned value or change the argument to signed.
62	(3E)	BITSTRING	0	AXRVARBADUNSIGNED	"X'0000083A'" Meaning: An unsigned output variable returned from REXX was prefixed with a sign. Action: AxrArgLstEntryInError in the RexxVars parameter contains the index of the invalid variable. Change the exec to return an unsigned value or change the variable to be signed.
62	(3E)	BITSTRING	0	AXRBADCONSOLENAME	"X'0000083B'" Meaning: The specified CONSNAME parameter was syntactically incorrect. Action: Correct the syntax of the CONSNAME parameter so that it is a syntactically valid console name.
62	(3E)	BITSTRING	0	AXRREXXINNOTAUTH	"X'0000083E'" Meaning: Invoker is not SAF authorized to the dataset name specified on the RexxInDsn keyword. Action: Either change the dataset name or change the security environment so that the dataset can be accessed.
62	(3E)	BITSTRING	0	AXRREXXOUTNOTAUTH	"X'0000083F'" Meaning: Invoker is not SAF authorized to the dataset name specified on the RexxOutDsn keyword. Action: Either change the dataset name or change the security environment so that the dataset can be accessed.
62	(3E)	BITSTRING	0	AXRREXXINDSNBAD	"X'00000840'" Meaning: The RexxInDsn specification is not syntactically correct. Action: Correct the input so that it is a valid dataset name.
62	(3E)	BITSTRING	0	AXRREXXOUTDSNBAD	"X'00000841'" Meaning: The RexxOutDsn specification is not syntactically correct. Action: Correct the input so that it is a valid dataset name.

Table 261. Structure AXRRXLENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
62	(3E)	BITSTRING	0	AXRRACROUTEBAD	"X'00000842'" Meaning: RACROUTE VERIFY returned a bad return code when attempting to create a security environment prior to running the REXX exec. Action: The SAF return code in stored in AXRDIAG1. The RACF return and reason codes are stored in AXRDIAG2 and AXRDIAG3 respectively (all in the REXXDiag parameter). Certain types of address spaces do not have a legitimate security environment and as such the AXREXX invoker may have to provide a different UTOKEN or use SECURITY=BYAXRUSER.
62	(3E)	BITSTRING	0	AXRREXXOUTCANNOTOPEN	"X'00000843'" Meaning: A failure occurred when attempting to open the dataset specified by RexxOutDsn. Action: The return code from IRXINOUT is set in AXRDIAG1 in the RexxDiag parameter and is documented in z/OS TSO/E REXX Reference. Additionally, the REXX interpreter may issue messages describing the error.
62	(3E)	BITSTRING	0	AXRREXXINCANNOTOPEN	"X'00000844'" Meaning: A failure occurred when attempting to open the dataset specified by RexxInDsn. Action: The return code from IRXINOUT is set in AXRDIAG1 in the RexxDiag parameter and is documented in the z/OS TSO/E REXX Reference. Additionally, the REXX interpreter may issue messages describing the error.
62	(3E)	BITSTRING	0	AXRBADREQUEST	"X'00000846'" Meaning: The AXREXX input pararmeter list is incorrect. An invalid request type is specified. Action: Determine why the AXREXX input parameter list is incorrect.
62	(3E)	BITSTRING	0	AXRARGRSVNOTZERO	"X'00000847'" Meaning: A reserved field in the AXRARGENTRY mapping was non-zero for the RexxArgs AXREXX parameter. Action: AxrArgLstEntryInError in the RexxArgs parameter contains the index of the entry that caused the error. Clear the reserved fields.

Table 261. Structure AXRRXLENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
62	(3E)	BITSTRING	0	AXRVARRSVNOTZERO	"X'00000848'" Meaning: A reserved field in the AXRARGENTRY mapping was non-zero for the RexxVars AXREXX parameter. Action: AxrArgLstEntryInError in the RexxVars parameter contains the index of the entry that caused the error. Clear the reserved fields.
62	(3E)	BITSTRING	0	AXRBADREQTOKEN	"X'00000849'" Meaning: For a CANCEL request, the input Request Token is invalid. Action: Correct the invocation to provide a valid Request Token.
62	(3E)	BITSTRING	0	AXRREXXINNOTSEQ	"X'0000084A'" Meaning: RexxInDsn is a PDS, but RexxInMemName is not specified. Action: Specify RexxInMemname keyword or change RexxInDsn.
62	(3E)	BITSTRING	0	AXRREXXINNOTPDS	"X'0000084B'" Meaning: RexxInMemname is specified but RexxInDsn is not a PDS. Action: Remove RexxInMemname or specify a PDS for RexxInDsn.
62	(3E)	BITSTRING	0	AXRREXXOUTNOTSEQ	"X'0000084C'" Meaning: RexxOutDsn is a PDS, but RexxOutMemName is not specified. Action: Specify the RexxOutMemName keyword or change RexxOutDsn.
62	(3E)	BITSTRING	0	AXRREXXOUTNOTPDS	"X'0000084D'" Meaning: RexxOutMemname is specified but RexxOutDsn is not a PDS. Action: Remove the RexxOutMemName keyword or change the specification of RexxOutDsn to a PDS.
62	(3E)	BITSTRING	0	AXRREXXINNOMEMBER	"X'0000084E'" Meaning: RexxInMemname does not exist in the dataset specified by RexxInDsn. Action: Either create the member or specify a different RexxInDsn dataset name.
62	(3E)	BITSTRING	0	AXRVARBADVALUE	"X'00000850'" Meaning: The value of an input variable was not acceptable to REXX. Action: Inspect AxrArgLstEntryInError in the RexxVars parameter for the index of the variable that caused the error.

Table 261. Structure AXRRXLENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
62	(3E)	BITSTRING	0	AXREXECNOTFOUND	"X'00000851'" Meaning: The exec was not found in the System REXX library. Action: Correct the spelling of the exec in the NAME keyword.
62	(3E)	BITSTRING	0	AXRVAROUTBADVALUE	"X'00000852'" Meaning: The value of an output variable was not acceptable to REXX. Action: Inspect AxrArgLstEntryInError in the RexxVars parameter for the index of the variable that caused the error.
62	(3E)	BITSTRING	0	AXRARGOUTBADVALUE	"X'00000853'" Meaning: The value of an output argument was not acceptable to REXX. Action: Inspect AxrArgLstEntryInError in the RexxArgs parameter for the index of the argument that caused the error.
62	(3E)	BITSTRING	0	AXRPARMLISTBADALET	"X'00000854'" Meaning: The ALET of the parmlist is invalid. Action: Correct the Alet.
62	(3E)	BITSTRING	0	AXRUTOKENBADALET	"X'00000855'" Meaning: The ALET of the UTOKEN parameter is invalid. Action: Correct the Alet.
62	(3E)	BITSTRING	0	AXRREXXARGSBADALET	"X'00000856'" Meaning: The ALET of the REXXARGS parameter is invalid. Action: Correct the Alet.
62	(3E)	BITSTRING	0	AXRREXXVARSBADALET	"X'00000857'" Meaning: The ALET of the REXXVARS parameter is invalid. Action: Correct the Alet.
62	(3E)	BITSTRING	0	AXRREXXINDSNBADALET	"X'00000858'" Meaning: The ALET of the REXXINDSN parameter is invalid. Action: Correct the Alet.
62	(3E)	BITSTRING	0	AXRREXXOUTDSNBADALET	"X'00000859'" Meaning: The ALET of the REXXOUTDSN parameter is invalid. Action: Correct the Alet.
62	(3E)	BITSTRING	0	AXRREXXDIAGBADALET	"X'0000085A'" Meaning: The ALET of the REXXDIAG parameter is invalid. Action: Correct the Alet.
62	(3E)	BITSTRING	0	AXRARGBADALET	"X'0000085B'" Meaning: The ALET of the argument entry is invalid. Action: Refer to AxrArgLstEntryInError in the RexxArgs parameter to determine the index of the argument entry whose alet was incorrect. Correct AxrArgAlet.

Table 261. Structure AXRRXLENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
62	(3E)	BITSTRING	0	AXRARGNAMEBADALET	"X'0000085C'" Meaning: The ALET of the argument entry name is invalid. Action: Refer to AxrArgLstEntryInError in the RexxArgs parameter to determine the index of the argument entry name whose alet was incorrect. Correct AxrArgNameAlet.
62	(3E)	BITSTRING	0	AXRVARBADALET	"X'0000085D'" Meaning: The ALET of the variable entry is invalid. Action: Refer to AxrArgLstEntryInError in the RexxVars parameter to determine the index of the variable entry whose alet was incorrect. Correct AxrArgAlet.
62	(3E)	BITSTRING	0	AXRVARNAMEBADALET	"X'0000085E'" Meaning: The ALET of the variable entry name is invalid. Action: Refer to AxrArgLstEntryInError in the RexxVars parameter to determine the index of the variable entry name whose alet was incorrect. Correct AxrArgNameAlet.
62	(3E)	BITSTRING	0	AXRREXXLIBBADALET	"X'0000085F'" Meaning: The ALET of the Rexxlib is invalid. Action: Correct the alet.
62	(3E)	BITSTRING	0	AXRBADREXXLIBLEN	"X'00000860'" Meaning: The length specified by RexxlibLen keyword is invalid. Action: RexxlibLen must be greater than or equal to 20480.
62	(3E)	BITSTRING	0	AXRBADREXXLIB	"X'00000861'" Meaning: A program check occured when attempting to access the parameter specified by the REXXLIB keyword. Action: Correct the Rexxlib keyword.
		.... 11..		AXRRETCODEENVERROR	"X'0000000C'" Meaning: Environmental error Action: Refer to the action provided with the specific reason code.
62	(3E)	BITSTRING	0	AXRNOTACTIVE	"X'00000C01'" Meaning: Function is not available. Either the AXR address space has terminated or has not initialized. Action: Avoid requesting this function until the ENF signal for AXR initialization is issued or message AXR0102I is issued. If the AXR address space has terminated, it needs to be restarted.

Table 261. Structure AXRRXLENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
62	(3E)	BITSTRING	0	AXRARGNOSTORAGE	"X'00000C02'" Meaning: No storage is available for a REXX argument or variable. Action: Reissue the AXREXX request after requests that are in progress complete.
62	(3E)	BITSTRING	0	AXRALLREQBLOCKSINUSE	"X'00000C03'" Meaning: All the storage available to represent REXX requests is in use. Action: Reissue the AXREXX request after requests that are in progress complete.
62	(3E)	BITSTRING	0	AXRTOOMANYREXXREQS	"X'00000C04'" Meaning: The threshold of active/waiting REXX requests has been exceeded. Action: System REXX will issue ENF signal (65) with a qualifier of '10000000'x to indicate that it has begun accepting new requests. The AXREXX invoker can listen for this signal.
62	(3E)	BITSTRING	0	AXRBADIWMEREG	"X'00000C05'" Meaning: A bad return code was returned from IWMEREG. The return code and reason codes from IWMEREG are placed in AXRDIAG1 and AXRDIAG2 in the RexxDiag parameter respectively. Action: Examine the return and reason codes from IWMEREG. If no diagnosis is possible, contact IBM Service.
62	(3E)	BITSTRING	0	AXRASCREFAILED	"X'00000C06'" Meaning: An attempt to create a server address space to run the exec failed. Action: The return and reason codes from ASCRE are stored AxrDiag1 and AxrDiag2 in the RexxDiag parameter.
62	(3E)	BITSTRING	0	AXRREQCANCELLED	"X'00000C07'" Meaning: The request was cancelled. Action: None.

Table 261. Structure AXRRXLENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
62	(3E)	BITSTRING	0	AXREXECREXXENVERROR	"X'00000C08'" Meaning: The REXX Interpreter was unable to run the exec. Action: The REXX Interpreter issues one or more messages describing the problem. If RexxOutDsn was specified, look in the dataset for the messages. If ConsData was specified and RexxOutDsn was not specified, look at the console or the system log. If RexxDiag was specified, AXRDIAG1, AXRDIAG2, AXRDIAG3 and AXRDIAG4 contain the message ids of any messages beginning with IRX (REXX) or IKJ (TSO) that were issued. The format of the message id is packed decimal with the sign bits shifted out. A 1 in the high order byte distinguishes an IKJ message from an IRX message.
62	(3E)	BITSTRING	0	AXRBADAXRUSER	"X'00000C09'" Meaning: AXRUSER was improperly defined in parmlib member AXR00. Action: Correct AXR00 and restart System REXX.
62	(3E)	BITSTRING	0	AXRTIMEINTEXPIRED	"X'00000C0A'" Meaning: The input time limit expired before the exec completed. Action: Increase the time limit or modify the exec.
62	(3E)	BITSTRING	0	AXRREQNOTACTIVE	"X'00000C0B'" Meaning: For a CANCEL request, the request to be cancelled is no longer active. Action: None.
62	(3E)	BITSTRING	0	AXRREQALREADYCANCELLED	"X'00000C0C'" Meaning: For a CANCEL request, the request to be cancelled is already cancelled. Action: None.
62	(3E)	BITSTRING	0	AXRREXXOUTFAIL	"X'00000C0D'" Meaning: An failure occurred when attempting to process the dataset specified by the RexxOutDsn parameter. If the failure was due to an abend, the abend code is is saved in AXRDIAG1 and the abend reason code is saved in AXRDIAG2 in the RexxDiag parameter. No dump is taken. Action: Look up the abend and reason code in z/OS MVS System Codes to determine the proper action.

Table 261. Structure AXRRXLENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
62	(3E)	BITSTRING	0	AXRREXXINFAIL	"X'00000C0E'" Meaning: A failure occurred when attempting to process the dataset specified by the RexxInDsn parameter. If the failure was due to an abend, the abend code is saved in AXRDIAG1 and the abend reason code is saved in AXRDIAG2 of the RexxDiag parameter. No dump is taken. Action: Look up the abend and reason code in z/OS MVS System Codes to determine the proper action.
62	(3E)	BITSTRING	0	AXRBADIWMECREA	"X'00000C0F'" Meaning: A bad return code was returned from IWMECREA. The return code and reason codes from IWMESQRY and the return and reason codes from IWMECREA are placed in AXRDIAG1, AXRDIAG2, AXRDIAG3 and AXRDIAG4 respectively of the RexxDiag parameter. Action: Inspect the return/reason codes from IWMESQRY and IWMECREA and look up in the z/OS MVS Programming: Workload Management Services. If the problem cannot be resolved, contact IBM Service.
62	(3E)	BITSTRING	0	AXRTOOMANYEXTENTS	"X'00000C10'" Meaning: The number of extents for all data sets in the REXXLIB concatenation exceeds the system limit. SYSREXX cannot process any more execs. Action: SYSREXX must be stopped. The REXXLIB concatenation must then be modified so that the number of extents is reduced below the system limit. SYSREXX may then be restarted.
62	(3E)	BITSTRING	0	AXRSTOPTSO	"X'00000C11'" Meaning: MODIFY AXR,SYSREXX STOPTSO was invoked to disable TSO=YES processing. Action: The request is rejected. To restart TSO=YES processing, the following operator command must be issued: MODIFY AXR,SYSREXX STARTTSO.
62	(3E)	BITSTRING	0	AXRSTOPINPROGRESS	"X'00000C12'" Meaning: The STOP AXR command was invoked and is being processed. Action: The request is rejected. System REXX must be restarted before AXREXX can be invoked.

Table 261. Structure AXRRXLENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		AXRRETCODECOMPERROR	"X'00000010'" Meaning: Unexpected failure. Action: Refer to the action provided with the specific reason code.
62	(3E)	BITSTRING	0	AXRREXXSERVERABENDED	"X'00001001'" Meaning: An abend occurred after the REXX server began processing the request. Action: A dump is taken. Contact IBM service.
62	(3E)	BITSTRING	0	AXRBADSERVERRC	"X'00001002'" Meaning: A unexpected return code was returned from the REXX server. Action: A dump is taken. Contact IBM service.
62	(3E)	BITSTRING	0	AXRREXXCLIENTABENDED	"X'00001003'" Meaning: An abend occurred before the request was passed to the REXX Server or after the request was processed by the REXX server. Action: A dump is taken. Contact IBM service.
62	(3E)	BITSTRING	0	AXREXITABENDED	"X'00001007'" Meaning: An abend occurred in a System REXX defined exit which is given control from the REXX Interpreter. Action: A dump is taken. Contact IBM service.
62	(3E)	BITSTRING	0	AXRADDRSPACETERM	"X'0000100B'" Meaning: The address space created to run an exec either terminated prior to running the exec or during the execution of the exec. Action: If the address space was cancelled then there is no action. If the address space was terminated unexpectedly then contact IBM Service.
62	(3E)	BITSTRING	0	AXRCANCELABENDED	"X'0000100D'" Meaning: An attempt to cancel a request resulted in an abend. A dump is taken. Action: Contact IBM service.
62	(3E)	BITSTRING	0	AXRREXXINTERPRETERABEND	"X'0000100F'" Meaning: Either the REXX interpreter abended or was percolated to. Action: Refer to the RexxDiag parameter. AxrDiag1 contains either 100 for a user abend or 104 for a system abend. AxrDiag2 contains the abend code. A system dump may be produced.
62	(3E)	X'40'	0	AXRRXLENTRY_LEN	"*-AXRRXLENTRY"

AXRZARG mapping

Table 262. Cross Reference for AXRZARG

Name	Offset	Hex Tag
AXRADDRSPACETERM	3E	100B
AXRALLREQBLOCKSINUSE	3E	C03
AXRARGADDR	0	
AXRARGADDRHIGH	0	
AXRARGADDRLOW	4	
AXRARGALET	14	
AXRARGBADACRONYM	3E	818
AXRARGBADALET	3E	85B
AXRARGBADBITSTRING	3E	80D
AXRARGBADHEXSTRING	3E	80E
AXRARGBADLENGTH	3E	808
AXRARGBADNAME	3E	830
AXRARGBADNAMELENGTH	3E	810
AXRARGBADNUMERIC	3E	80C
AXRARGBADTYPE	3E	809
AXRARGBADUNSIGNED	3E	839
AXRARGBADVERSION	3E	81A
AXRARGCANNOTACCESS	3E	807
AXRARGEND	28	
AXRARGENTRY	0	
AXRARGENTRY_LEN	28	28
AXRARGINPUT	22	80
AXRARGINPUTFLGS1	22	
AXRARGLENGTH	10	
AXRARGLST	0	
AXRARGLST_LEN	10	10
AXRARGLSTACRO	10	D9C7D3
AXRARGLSTCURVER	10	0
AXRARGLSTEND	10	
AXRARGLSTENTRYINERROR	A	
AXRARGLSTID	0	
AXRARGLSTNUMBER	8	
AXRARGLSTRSVNOTZERO	3E	824
AXRARGLSTRSV1	5	
AXRARGLSTRSV2	C	
AXRARGLSTVER	4	
AXRARGLSTVER0	10	0
AXRARGNAMEADDR	8	
AXRARGNAMEADDRHIGH	8	
AXRARGNAMEADDRLOW	C	
AXRARGNAMEALET	18	
AXRARGNAMEBADALET	3E	85C
AXRARGNAMECANNOTACCESS	3E	832
AXRARGNAMELENGTH	20	
AXRARGNEITHERINOROUT	3E	837
AXRARGNOEXIST	3E	82C
AXRARGNOSTORAGE	3E	C02
AXRARGNUMERICTOOBIG	3E	82A
AXRARGOUTBADVALUE	3E	853

Table 262. Cross Reference for AXRZARG (continued)

Name	Offset	Hex Tag
AXRARGOUTLENGTH	1C	
AXRARGOUTPUT	22	40
AXRARGRES1	22	3F
AXRARGRES2	23	
AXRARGRSVNOTZERO	3E	847
AXRARGTOOLONG	3E	82E
AXRARGTOOMANY	3E	80B
AXRARGTYPE	21	
AXRARGTYPEBITSTRING	28	4
AXRARGTYPECHAR	28	3
AXRARGTYPEHEXSTRING	28	5
AXRARGTYPESIGNED	28	1
AXRARGTYPEUNSIGNED	28	2
AXRASCREFAILED	3E	C06
AXRBADAXRUSER	3E	C09
AXRBADCONSOLENAME	3E	83B
AXRBADIWMECREA	3E	C0F
AXRBADIWMEREG	3E	C05
AXRBADREQTOKEN	3E	849
AXRBADREQUEST	3E	846
AXRBADREXXLIB	3E	861
AXRBADREXXLIBLEN	3E	860
AXRBADSERVERRC	3E	1002
AXRBADTIMEINT	3E	817
AXRCANCELABENDED	3E	100D
AXRDIAG	0	
AXRDIAG_LEN	1C	28
AXRDIAGACRO	28	E7D9C4
AXRDIAGCANNOTACCESS	3E	835
AXRDIAGCURVER	28	1
AXRDIAGDATA	4	
AXRDIAGEXECRETCODE	4	
AXRDIAGFLGS1	1	
AXRDIAGHEADER	0	
AXRDIAGID	18	
AXRDIAGNOEXECRETCODE	1	80
AXRDIAGVER	0	
AXRDIAGVER0	28	0
AXRDIAGVER1	28	1
AXRDIAG1	8	
AXRDIAG2	C	
AXRDIAG3	10	
AXRDIAG4	14	
AXREXECNOTFOUND	3E	851
AXREXECREXXENVERROR	3E	C08
AXREXECSYNTAXERROR	3E	828
AXREXITABENDED	3E	1007
AXRNOFRRALLOWED	3E	801
AXRNOLOCKSALLOWED	3E	802

Table 262. Cross Reference for AXRZARG (continued)

Name	Offset	Hex Tag
AXRNOTABLETOALLOCATEREXXINDSN	3E	811
AXRNOTABLETOALLOCATEREXXOUTDSN	3E	812
AXRNOTABLETOUNALLOCATEREXXINDSN	3E	826
AXRNOTABLETOUNALLOCATEREXXOUTDSN	3E	827
AXRNOTACTIVE	3E	C01
AXRNOTAUTHORIZED	3E	804
AXRNOTENABLED	3E	805
AXRNOTTCBMODE	3E	803
AXRPARMLISTBADALET	3E	854
AXRPLISTCANNOTACCESS	3E	80A
AXRRACROUTEBAD	3E	842
AXRREQALREADYCANCELLED	3E	C0C
AXRREQCANCELLED	3E	C07
AXRREQNOTACTIVE	3E	C0B
AXRRETCODECOMPERROR	3E	10
AXRRETCODEENVERROR	3E	C
AXRRETCODEERROR	3E	8
AXRRETCODEOK	3E	0
AXRREXXARGSBADALET	3E	856
AXRREXXARGSCANNOTACCESS	3E	806
AXRREXXCLIENTABENDED	3E	1003
AXRREXXDIAGBADALET	3E	85A
AXRREXXINCANNOTOPEN	3E	844
AXRREXXINDSNBAD	3E	840
AXRREXXINDSNBADALET	3E	858
AXRREXXINDSNCANNOTACCESS	3E	814
AXRREXXINFAIL	3E	C0E
AXRREXXINNOMEMBER	3E	84E
AXRREXXINNOTAUTH	3E	83E
AXRREXXINNOTPDS	3E	84B
AXRREXXINNOTSEQ	3E	84A
AXRREXXINTERPRETERABEND	3E	100F
AXRREXXLIBBADALET	3E	85F
AXRREXXOUTCANNOTOPEN	3E	843
AXRREXXOUTDSNBAD	3E	841
AXRREXXOUTDSNBADALET	3E	859
AXRREXXOUTDSNCANNOTACCESS	3E	815
AXRREXXOUTFAIL	3E	C0D
AXRREXXOUTNOTAUTH	3E	83F
AXRREXXOUTNOTPDS	3E	84D
AXRREXXOUTNOTSEQ	3E	84C
AXRREXXSERVERABENDED	3E	1001
AXRREXXVARSBADALET	3E	857
AXRREXXVARSCANNOTACCESS	3E	816
AXRRSNCODEMASK	3E	FFFF
AXRRXLACRO	1C	E7D9D9
AXRRXLCONCATNUM	8	
AXRRXLDSNAME	A	
AXRRXLDSNAMELEN	8	

Table 262. Cross Reference for AXRZARG (continued)

Name	Offset	Hex Tag
AXRRXLENTRY	0	
AXRRXLENTRY_LEN	3E	40
AXRRXLENTRYACRO	11	E7D3C5
AXRRXLENTRYID	0	
AXRRXLENTRYLEN	4	
AXRRXLHEADER	0	
AXRRXLHEADER_LEN	11	18
AXRRXLID	0	
AXRRXLLEN	4	
AXRRXLTOTALLEN	C	
AXRRXLVER	10	
AXRRXLVER0	1C	0
AXRRXLVOLSER	38	
AXRRXLVOLSERLEN	36	
AXRSTOPINPROGRESS	3E	C12
AXRSTOPTSO	3E	C11
AXRTIMEINTEXPIRED	3E	C0A
AXRTOOMANYEXTENTS	3E	C10
AXRTOOMANYREXXREQS	3E	C04
AXRUTOKENBADALET	3E	855
AXRUTOKENCANNOTACCESS	3E	813
AXRVARBADACRONYM	3E	819
AXRVARBADALET	3E	85D
AXRVARBADBITSTRING	3E	81E
AXRVARBADHEXSTRING	3E	81F
AXRVARBADLENGTH	3E	823
AXRVARBADNAME	3E	82F
AXRVARBADNAMELENGTH	3E	820
AXRVARBADNUMERIC	3E	81D
AXRVARBADTYPE	3E	821
AXRVARBADUNSIGNED	3E	83A
AXRVARBADVALUE	3E	850
AXRVARBADVERSION	3E	81B
AXRVARCANNOTACCESS	3E	822
AXRVARLSTACRO	10	C1D9D3
AXRVARLSTRSVNOTZERO	3E	825
AXRVARNAMEBADALET	3E	85E
AXRVARNAMECANNOTACCESS	3E	833
AXRVARNEITHERINOROUT	3E	838
AXRVARNOEXIST	3E	82B
AXRVARNUMERICTOOBIG	3E	831
AXRVAROUTBADVALUE	3E	852
AXRVARRSVNOTZERO	3E	848
AXRVARTOOLONG	3E	82D
AXRVARTOOMANY	3E	81C

Chapter 49. BASEA Information

BASEA Heading Information

Common Name: MASTER SCHEDULER RESIDENT DATA AREA
Macro ID: IEEBASEA
DSECT Name: BASE
Owning Component: MASTER SCHEDULER (SC1B8)
Eye-Catcher ID: MSER
Offset: 4
Length: 4
Storage Attributes: Key: 0
Residency: NUCLEUS
Size: 224 BYTES
Created by: IEEBASEC (CSECT IN THE NUCLEUS DURING SYSGEN)
Pointed to by: CVTMSER FIELD OF THE CVT DATA AREA
Serialization: NONE
Function: THIS MACRO PROVIDES THE MAPPING OF MASTER RESIDENT CORE UNIQUE TO THE OS/VS2 SYSTEM AND A MAPPING OF THE MASTER COMMUNICATIONS REGION WHICH IS COMMON TO ALL SYSTEMS OF OS/VS2. THE AREA MAY BE ADDRESSED THROUGH THE COMMUNICATIONS VECTOR TABLE UNDER LABEL CVTMSER. THE BASEA EXTENSION, BASEX, RESIDES IN ESQA AND IS BUILT IN IEEMB881 WHEN THE FIRST ADDRESS SPACE IS CREATED.

BASEA mapping

Table 263. Structure BASE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	224	BASE	
	FOLLOWING VALUES DEFINE BIT PATTERNS FOR SWITCHES				
0	(0)	ADDRESS	4	BACHN	HANDLE TO COMMAND SCHEDULING CHAIN Y01939
4	(4)	CHARACTER	4	BACBID	CONTROL BLOCK ID
8	(8)	SIGNED	4	BASCPLID	UTOKEN CELL POLL ID
12	(C)	SIGNED	4	BAIPL	COMMUNICATION WORD
12	(C)	CHARACTER	3	*	
15	(F)	CHARACTER	1	BAIPLCC	USED BY TOD CLOCK MANAGEMENT
16	(10)	ADDRESS	4	BAQ	OVERLAYED BY BAMSLNK WORD1
20	(14)	ADDRESS	4	BAPRC	OVERLAYED BY BAMSLNK WORD2
24	(18)	CHARACTER	8	BALGSTAT	
24	(18)	ADDRESS	4	MSLOGSVC	
28	(1C)	ADDRESS	4	BALOG	POINTER TO LOG CONTROL TABLE Y01939
		1...		BALOGINT	INITIALIZED LOG INDICATOR Y01939
		.1..		*	RESERVED
		..1.		*	RESERVED
		...1		*	RESERVED
		.... 1...		*	RESERVED

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Table 263. Structure BASE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		*	RESERVED
		.... ..1.		*	RESERVED
		1		*	RESERVED
32	(20)	ADDRESS	4	BAEBAPTR	POINTER TO EXTENDED MASTER SCHEDULER RESIDENT DATA AREA (INITIALIZED BY IEEMB860)
36	(24)	CHARACTER	1	BASFL	
36	(24)	CHARACTER	1	BARSW	
		1...		BAIN	IPL FLAG
		.1..		*	RESERVED
		..1.		BAINTSET	INDICATES INTERNAL SET FOR TOD
		...1		BAFSTOR	ALL LOG BUFFERS ARE BEING FREED
		 1111		*	RESERVED BITS
37	(25)	UNSIGNED	1	BAVERN	VERSION LEVEL
38	(26)	CHARACTER	2	BASDIPLD	Device number from which the system was IPL'd. Set from UCBCHAN by IEEVIPL and used by IEECB985 when processing a Display IPLINFO command.
40	(28)	SIGNED	2	BAPKES	MASK OF INITIATOR PROTECT KEYS
42	(2A)	UNSIGNED	1	BASDIPLS	Subchannel set id of IPL device
43	(2B)	UNSIGNED	1	BASPBY01	RESERVED BYTE
44	(2C)	SIGNED	2	BASPHW02	RESERVED HALFWORD
46	(2E)	CHARACTER	1	MSLOGST	LOG STATUS XMCS
		1...		MSLOGENQ	LOG DATASET SCHEDULED TO BE XMCS QUEUED TO SYSOUT WRITER XMCS
		.1..		MSLOGTHD	LOG NOT SUPPORTED BIT XMCS
		..1.		MSLOGCOM	SIGNAL FOR COM TASK TO STOP XMCS ISSUING WTLS XMCS
		...1		MSLOGDAR	LOG INTERNAL ABEND FLAG
		.... 1...		MSLOGIPL	LOG FIRST-TIME ENTRY SWITCH
		.... .1..		MSLOGSTA	LOG STAE ENVIRONMENT SWITCH
		.... ..1.		MSLOGCHN	LOG CHAIN MANIPULATION ERROR
		1		MSLOGTND	LOG TASK END INDICATOR
47	(2F)	CHARACTER	1	BASPBYTE	MSTR SCH INIT CPL 20030
		1...		BAMSSTAR	STAR RECURSION POINTER Y01037
		.1..		*	RESERVED
		..1.		BAMASCH	MASTER SCHEDULER REGION INITIALIZATION STARTED
		...1		BAMSINIT	MASTER SCHEDULER INITIALIZATION IS COMPLETE
		.... 1...		BAOKDUMP	A DUMP WAS TAKEN BY THE INITIATOR DURING MASTER SCHED INIT
		.... .1..		MSLOGCL	Hardcopy was turned off with a VARY,SYSLOG,HARDCPY, OFF,UNCOND cmd
		.... ..1.		MSLOGVH	Hardcopy was turned back on after a VARY,SYSLOG, HARDCPY,OFF,UNCOND
		1		*	RESERVED
48	(30)	SIGNED	4	BALOGECB	LOG ECB XMCS
52	(34)	ADDRESS	4	*	Reserved (was BAMTTWKP)

Table 263. Structure BASE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	CHARACTER	1	BAMONITR	MONITOR FLAGS (TERMINALS-TJB CHAIN, 20030 CONSOLES-UCME CHAIN) 20030
		1...		BADSN	DSNAME ARE BEING MONITORED
		.1..		BASPACE	SPACE IS BEING MONITORED Y02669
57	(39)	CHARACTER	1	BAMONTR2	SETCON/MONITOR FLAGS
		1...		BASC_MN_JOBS	SETCON MN: JOBNAMES MSGS ENABLED
		.1..		BASC_MN_JOBS_LOG	SETCON MN: JOBNAMES MSGS LOGGED
		..1.		BASC_MN_SESS	SETCON MN: SESS MSGS ENABLED
		...1		BASC_MN_SESS_LOG	SETCON MN: SESS MSGS LOGGED
		.... 1...		BASC_MN_STAT	SETCON MN: STATUS MSGS ENABLED
		.... .1..		BASC_MN_STAT_LOG	SETCON MN: STATUS MSGS LOGGED
		.... ..1.		BASC_MN_TIMESTAMP	SETCON MN: CURRENT TIMESTAMP SETTING
58	(3A)	CHARACTER	1	BACHFLGS	CSCB FLAGS
		1...		BACSCBA	CSCB LOCATION IS ABOVE 16M
		.1..		BACSCXB	RESERVED
59	(3B)	CHARACTER	1	BARESV	RESERVED
60	(3C)	SIGNED	4	BAMSIECB	MASTER SCHEDULER INITIALIZATION ECB
64	(40)	ADDRESS	4	BALOGSAV	Saved value of BALOG when VARY SYSLOG,HARDCPY,OFF,UNCOND issued
68	(44)	CHARACTER	8	BARSV1	RESERVED
76	(4C)	SIGNED	4	BALOGCOM	SYSLOG DEB TABLE ADDRESS
80	(50)	SIGNED	4	BASUBECB	SUBSYSTEM SERIALIZATION ECB Y02668
84	(54)	SIGNED	2	BAJNCNT	# OF DEVICES MONITORING JOBNAMES Y02669
86	(56)	SIGNED	2	BASESCT	# OF DEVICES MONITORING SESSIONS Y02669
88	(58)	SIGNED	2	BASTCNT	# OF DEVICES MONITORING STATUS Y02669
90	(5A)	SIGNED	2	BARSV2	RESERVED
92	(5C)	ADDRESS	4	MSSCHED	POINTER TO SCHEDULER NIP PARAMETER LIST
96	(60)	ADDRESS	4	MSSMFPRM	POINTER TO THE SMF PARMLIB MEMBER Y02675
100	(64)	ADDRESS	4	BAASCB	MASTER SCHEDULER ASCB ADDRESS R20290
104	(68)	CHARACTER	4	*	Y02669
104	(68)	CHARACTER	1	MSLOGCLS	LOG OUTPUT CLASS Y02669
105	(69)	UNSIGNED	3	MSLOGLMT	NO. OF WTLS IN ONE DATA SET
108	(6C)	ADDRESS	4	MSLGCLOZ	LOG TERMINATION ECB
108	(6C)	ADDRESS	1	MSCLOSSW	ECB WAIT/POST FIELD
		1...		MSCLOSW	ECB WAIT BIT
		.1..		MSCLOSP	ECB POST BIT
		..11 1111		*	RESERVED
112	(70)	ADDRESS	4	MSLGWLOG	LOG DATA SET SWITCH ECB
112	(70)	ADDRESS	1	MSWLOGSW	ECB WAIT/POST FIELD
		1...		MSWLOGW	ECB WAIT BIT
		.1..		MSWLOGP	ECB POST BIT
		..11 1111		*	RESERVED
116	(74)	ADDRESS	4	MSLGWTR	LOG WTL QUEUE WRITER ECB

Table 263. Structure BASE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
116	(74)	ADDRESS	1	MSWTRSW	ECB WAIT/POST FIELD
		1...		MSWTRW	ECB WAIT BIT
		.1..		MSWTRP	ECB POST BIT
		..11 1111		*	RESERVED
117	(75)	ADDRESS	3	*	RESERVED
120	(78)	ADDRESS	4	MSLGSTRT	LOG RE-ACTIVATION ECB
120	(78)	ADDRESS	1	MSSTRTSW	ECB WAIT/POST FIELD
		1...		MSSTRTW	ECB WAIT BIT
		.1..		MSSTRTP	ECB POST BIT
		..11 1111		*	RESERVED
121	(79)	ADDRESS	3	MSSTRTRB	ECB RB ADDRESS
124	(7C)	SIGNED	4	MSLGJSCB	LOG SWAPPED JSCB ADDRESS
128	(80)	ADDRESS	4	BASCTPTR	POINTER TO SCHEDULED COMMANDS TABLE (IEEMB884)
132	(84)	ADDRESS	4	BACASTPT	POINTER TO CAST
136	(88)	CHARACTER	88	MS1BASEX	

Table 264. Structure BASES01

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
136	(88)	STRUCTURE	88	BASES01	
136	(88)	UNSIGNED	4	BACSWD1	Compare and swap word
136	(88)	CHARACTER	1	BASPBT02	RESERVED BYTE
137	(89)	CHARACTER	1	MSSSB	MONITOR TIME NOTE BYTE
137	(89)	CHARACTER	1	MSBTN	TIME NOTE BIT IS BIT 6
		1...		*	RESERVED BIT
		.1..		*	RESERVED BIT
		..1.		*	RESERVED BIT
		...1		*	RESERVED BIT
		.... 1...		*	RESERVED BIT
		.... .1..		*	RESERVED BIT
		.... ..1.		MSTN	VALUE TO TURN ON TIME NOTE (DECLARED ABNORMAL SO ASSEMBLER GENERATES COMPARE AND SWAP)
		1		*	RESERVED
138	(8A)	CHARACTER	1	BASPBT03	RESERVED BYTE
139	(8B)	CHARACTER	1	MSECBFL	SCHEDULER FLAG BYTE
		1...		BAMSJOBS	IEFJOBS DD IS IN MASTER JCL
		.1..		*	RESERVED BIT
		..1.		MSWTL	LOG ABEND RECURSION BIT
		...1		*	RESERVED BIT
		.... 1...		*	RESERVED BIT
		.... .1..		BACPQMPI	Copy JSCBQMPI when creating a system address space
		.... ..1.		MSSUMR	MSSUM bit has been reset
		1		MSSUM	SUMMARY BIT, VARY UCB SCAN REQUIRED.
140	(8C)	ADDRESS	4	BAMTTBL	MASTER TRACE TABLE ADDRESS
144	(90)	ADDRESS	4	BAMTRTN	MASTER TRACE DATA ENTRY ROUTINE ADDRESS
148	(94)	CHARACTER	4	BAMTSPSZ	MASTER TRACE TABLE SUBPOOL AND SIZE

Table 264. Structure BASES01 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
148	(94)	CHARACTER	1	BAMTSP	SUBPOOL OF MASTER TRACE TABLE
149	(95)	CHARACTER	3	BAMTLEN	SIZE OF MASTER TRACE TABLE
152	(98)	SIGNED	4	BASPWD0F	RESERVED
156	(9C)	ADDRESS	4	BAMTCDR	MASTER TRACE TABLE CHANGE ROUTINE ADDRESS
160	(A0)	ADDRESS	4	BAMTDTAB	ADDR OF TABLE DUMPED BY THE MASTER TRACE RECOVERY ROUTINE
164	(A4)	CHARACTER	4	BAMTDTSZ	SIZE AND SUBPOOL OF TABLE DUMPED BY THE MASTER TRACE RECOVERY ROUTINE
164	(A4)	CHARACTER	1	BAMTDTSP	SUBPOOL OF RECOVERY DUMPED TABLE
165	(A5)	CHARACTER	3	BAMTDTLN	SIZE OF RECOVERY DUMPED TABLE
168	(A8)	BITSTRING	1	*	Reserved (was BAMTCNTL)
169	(A9)	BITSTRING	1	*	Reserved (was BAMTRECF)
170	(AA)	BITSTRING	1	BAMTITFL	INTERNAL PROCESSING FLAG USED BY MASTER TRACE FACILITY
		1...		BAMTITAB	MASTER TRACE TABLE REQUIRED AT SYSTEM INITIALIZATION BIT
		.111 1111		*	RESERVED
171	(AB)	CHARACTER	1	BASPBT04	RESERVED BYTE
172	(AC)	SIGNED	4	*	Reserved (was BAMTDECB)
176	(B0)	SIGNED	4	BAMTINIT	DEFAULT MASTER TRACE TABLE SIZE AND SUBPOOL REQUESTED AT SYSTEM INITIALIZATION
176	(B0)	CHARACTER	1	BAMTINSP	DEFAULT SUBPOOL
177	(B1)	CHARACTER	3	BAMTINLN	DEFAULT SIZE
180	(B4)	SIGNED	4	BAMTVTCB	ADDRESS OF IEEVIPLS TCB FOR MASTER TRACE TABLE GETMAIN AND FREEMAIN IN CNZM1TRC
184	(B8)	ADDRESS	4	BAMJSCB	ADDRESS OF MASTER SCHEDULER JSCB
188	(BC)	ADDRESS	4	BAMTIOT	ADDRESS OF MASTER SCHEDULER TIOT
192	(C0)	SIGNED	2	MSDDNAME	DDNAME OF SYSLOG DATASET
194	(C2)	CHARACTER	2	BASPWD0A	RESERVED
196	(C4)	ADDRESS	4	BACHNL	LAST CSCB ON PERSISTENT CHAIN
200	(C8)	ADDRESS	4	BASEXP	ADDRESS OF BASEA EXTENSION
204	(CC)	UNSIGNED	4	MSMSGID	MSGID of IEE012A
208	(D0)	SIGNED	4	BAJNCNT4	REAL # OF DEVICES MONITORING JOBNAMES. BAJNCNT CANT HOLD SUPPORTED HIGH NUMBER. IT IS MAINTAINED UP TO 7FFF
212	(D4)	SIGNED	4	BASESCT4	REAL # OF DEVICES MONITORING SESS .BASESCT CANT HOLD SUPPORTED HIGH NUMBER. IT IS MAINTAINED UP TO 7FFF
216	(D8)	SIGNED	4	BASTCNT4	REAL # OF DEVICES MONITORING STATUS. BASTCNT CANT HOLD SUPPORTED HIGH NUMBER. IT IS MAINTAINED UP TO 7FFF
220	(DC)	ADDRESS	4	BASIEFOPZA	Address of OPTA for IEFOPZ

BASEA mapping

Table 265. Structure BASEX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	56	BASEX	BASEA EXTENSION
0	(0)	CHARACTER	4	BAXACR	BASEA EXTENSION ACRONYM
4	(4)	UNSIGNED	1	BAXVERS	BASEA EXTENSION VERSION
5	(5)	CHARACTER	1	BAXFLGX	Flags
		1...		BAXINIT	BASEX initialized
6	(6)	CHARACTER	2	BAXRES	RESERVED
8	(8)	ADDRESS	4	BACMDP	FIRST CSCB FOR TRANSIENT CHAIN
12	(C)	ADDRESS	4	BACMDL	LAST CSCB FOR TRANSIENT CHAIN
16	(10)	CHARACTER	4	BACHID	CSCB CELL POOL TOKEN ID
20	(14)	CHARACTER	4	BACHXID	CSCX CELL POOL TOKEN ID
24	(18)	ADDRESS	4	BACHNLST	LAST CSCB IEEVWAIT PROCESSED
28	(1C)	ADDRESS	4	BAGFSR	GET/FREE SERVICE ROUTINE - IEEMB843
32	(20)	ADDRESS	4	BAMANR	CHAIN MANIPULATION ROUTINE IEEMB845
36	(24)	ADDRESS	4	BAREBREC	REBUILD RECOVERY ROUTINE IEEMB844
40	(28)	ADDRESS	4	BAESTAE	COMMAND ESTAE CREATION/EXIT ROUTINE (IEECB860)
44	(2C)	ADDRESS	4	BACMFA@	Address of command flood area
48	(30)	CHARACTER	8	BACRSV	Reserved

Table 266. Constants for BASEA

Len	Type	Value	Name	Description
	CONSTANTS FOR ACRONYM			
4	CHARACTER	BASX	BACXID	BASEX ACRONYM
	CONSTANTS FOR VERSION LEVEL (BAVERN)			
1	DECIMAL	10	BAVERNID	VERSION LEVEL - UPDATED FOR SIZE OR INCOMPATIBLE CHANGE
1	DECIMAL	1	BASP13	VERSION LEVEL OS/VS2 JBB1326
1	DECIMAL	2	BASP410	VERSION LEVEL OS/VS2
1	DECIMAL	10	BA_VERSION_HBB7720	VERSION LVL HBB7720

Table 267. Cross Reference for BASEA

Name	Offset	Hex Tag
BAASCB	64	
BACASTPT	84	
BACBID	4	
BACHFLGS	3A	
BACHID	10	
BACHN	0	
BACHNL	C4	
BACHNLST	18	
BACHXID	14	
BACMDL	C	
BACMDP	8	
BACMFA@	2C	
BACPQMPI	8B	04

Table 267. Cross Reference for BASEA (continued)

Name	Offset	Hex Tag
BACRSV	30	
BACSCBA	3A	80
BACSCXB	3A	40
BACSWD1	88	
BADSN	38	80
BAEBAPTR	20	
BAESTAE	28	
BAFSTOR	24	10
BAGFSR	1C	
BAIN	24	80
BAINTSET	24	20
BAIPL	C	
BAIPLCC	F	
BAJNCNT	54	
BAJNCNT4	D0	
BALGSTAT	18	
BALOG	1C	
BALOGCOM	4C	
BALOGECB	30	
BALOGINT	1C	80
BALOGSAV	40	
BAMANR	20	
BAMASCH	2F	20
BAMJSCB	B8	
BAMONITR	38	
BAMONTR2	39	
BAMSIECB	3C	
BAMSINIT	2F	10
BAMSJOBS	8B	80
BAMSSTAR	2F	80
BAMTCDR	9C	
BAMTDTAB	A0	
BAMTDTLN	A5	
BAMTDTSP	A4	
BAMTDTSZ	A4	
BAMTINIT	B0	
BAMTINLN	B1	
BAMTINSP	B0	
BAMTIOT	BC	
BAMTITAB	AA	80
BAMTITFL	AA	
BAMTLEN	95	
BAMTRTN	90	
BAMTSP	94	
BAMTSPSZ	94	
BAMTTBL	8C	
BAMTVTCB	B4	
BAOKDUMP	2F	08
BAPKES	28	

Table 267. Cross Reference for BASEA (continued)

Name	Offset	Hex Tag
BAPRC	14	
BAQ	10	
BAREBREC	24	
BARESV	3B	
BARSV1	44	
BARSV2	5A	
BARSW	24	
BASC_MN_JOBS	39	80
BASC_MN_JOBS_LOG	39	40
BASC_MN_SESS	39	20
BASC_MN_SESS_LOG	39	10
BASC_MN_STAT	39	08
BASC_MN_STAT_LOG	39	04
BASC_MN_TIMESTAMP	39	02
BASCPLID	8	
BASCTPTR	80	
BASDIPLD	26	
BASDIPLS	2A	
BASE	0	
BASESCT	56	
BASESCT4	D4	
BASES01	88	
BASEX	0	
BASEXP	C8	
BASFL	24	
BASIEFOPZA	DC	
BASPACE	38	40
BASPBT02	88	
BASPBT03	8A	
BASPBT04	AB	
BASPBYTE	2F	
BASPBY01	2B	
BASPHW02	2C	
BASPWD0A	C2	
BASPWD0F	98	
BASTCNT	58	
BASTCNT4	D8	
BASUBECB	50	
BAVERN	25	
BAXACR	0	
BAXFLGX	5	
BAXINIT	5	80
BAXRES	6	
BAXVERS	4	
MSBTN	89	
MSCLOSP	6C	40
MSCLOSSW	6C	
MSCLOSW	6C	80
MSDDNAME	C0	

Table 267. Cross Reference for BASEA (continued)

Name	Offset	Hex Tag
MSECBFL	8B	
MSLGCLOZ	6C	
MSLGJSCB	7C	
MSLGSTRT	78	
MSLGWLOG	70	
MSLGWTR	74	
MSLOGCHN	2E	02
MSLOGCL	2F	04
MSLOGCLS	68	
MSLOGCOM	2E	20
MSLOGDAR	2E	10
MSLOGENQ	2E	80
MSLOGIPL	2E	08
MSLOGLMT	69	
MSLOGST	2E	
MSLOGSTA	2E	04
MSLOGSVC	18	
MSLOGTHD	2E	40
MSLOGTND	2E	01
MSLOGVH	2F	02
MSMSGID	CC	
MSSCHED	5C	
MSSMFPRM	60	
MSSSB	89	
MSSTRTP	78	40
MSSTRTRB	79	
MSSTRTSW	78	
MSSTRTW	78	80
MSSUM	8B	01
MSSUMR	8B	02
MSTN	89	02
MSWLOGP	70	40
MSWLOGSW	70	
MSWLOGW	70	80
MSWTL	8B	20
MSWTRP	74	40
MSWTRSW	74	
MSWTRW	74	80
MS1BASEX	88	

Chapter 50. BEB Information

BEB Heading Information

Common Name:	TCCW Beginning-End Block
Macro ID:	IECDBEB
DSECT Name:	BEB
Owning Component:	Execute Channel Program Processor (SC1C6)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 226 Key: 0 Residency: Below 16M line
Size:	64 bytes
Created by:	Callers of the CCW translation module, IECVTCCW
Pointed to by:	TCCWBEB field of the TCCW data area BEBCHAIN field of the BEB data area TCCWCBEB field of the TCCW data area
Serialization:	LOCAL lock
Function:	Contains the translated real channel program. Contains pointers to segments in the real channel program and to its corresponding virtual channel program CCWs. The real channel program contains real storage addresses and is executable by the channel.

BEB mapping

Table 268. Structure BEB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BEB	
0	(0)	ADDRESS	4	BEBCHAIN	BEB block chain pointer
4	(4)	BITSTRING	1	BEBFLAG	BEB flags----------
		1...		BEB2INUS	"X'80'" 2nd chan program segment pointers in use
		.1..		BEBNOPTC	"X'40'" NOP TIC used for TIC insertion
		..1.		BEB3INUS	"X'20'" 3rd channel program segment pointers in use
		...1		BEBRSVF2	"X'10'" Reserved
		.... 1...		BEBRSVF3	"X'08'" Reserved
		.... .1..		BEBRSVF4	"X'04'" Reserved
		.... ..1.		BEBRSVF5	"X'02'" Reserved
		1		BEBRSVF6	"X'01'" Reserved
5	(5)	BITSTRING	1	BEBCPKEY	Virtual Channel program key
		1...		BEBPPKEY	"X'80'" Problem program key
6	(6)	BITSTRING	1	BEBCLRKY	TCCW callers key
7	(7)	ADDRESS	1	BEBRSVB1	Reserved
8	(8)	BITSTRING	16	BEBSGMT1(0)	1st Channel program segment.....
8	(8)	ADDRESS	4	BEBRLST	Start of real chan program
12	(C)	ADDRESS	4	BEBRLEN	End of real chan program
16	(10)	ADDRESS	4	BEBVRST	Start of virtual chan program

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Table 268. Structure BEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	ADDRESS	4	BEBVREN	End of virtual chan program
24	(18)	BITSTRING	16	BEBSGMT2(0)	2nd Channel program segment.....
24	(18)	ADDRESS	4	BEBRLST2	Start of real chan program
28	(1C)	ADDRESS	4	BEBRLEN2	End of real chan program
32	(20)	ADDRESS	4	BEBVRST2	Start of virtual chan program
36	(24)	ADDRESS	4	BEBVREN2	End of virtual chan program
40	(28)	BITSTRING	16	BEBSGMT3(0)	3rd Channel program segment.....
40	(28)	ADDRESS	4	BEBRLST3	Start of real chan program
44	(2C)	ADDRESS	4	BEBRLEN3	End of real chan program
48	(30)	ADDRESS	4	BEBVRST3	Start of virtual chan program
52	(34)	ADDRESS	4	BEBVREN3	End of virtual chan program
Start of real channel program area------					
56	(38)	DBL WORD	8	BEBSCCW	First real CCW area
BEB block constants					
56	(38)	X'10'	0	BEBPTRLN	"BEBVREN+L'BEBVREN-BEBRLST" Length of set of segment pointers
56	(38)	X'8'	0	BEBEL	"L'BEBSCCW" length of a CCW
56	(38)	X'D'	0	BEBNE	"13" Maximun number of CCWs when caller provides 160 byte BEB
56	(38)	X'18'	0	BEBNEL	"24" Maximum number of CCWs when caller provides 248 byte BEB

Table 269. Cross Reference for BEB

Name	Offset	Hex Tag
BEB	0	
BEBCHAIN	0	
BEBCLRKY	6	
BEBCPKEY	5	
BEBEL	38	8
BEBFLAG	4	
BEBNE	38	D
BEBNEL	38	18
BEBNOPTC	4	40
BEBPPKEY	5	80
BEBPTRLN	38	10
BEBRLEN	C	
BEBRLEN2	1C	
BEBRLEN3	2C	
BEBRLST	8	
BEBRLST2	18	
BEBRLST3	28	
BEBRSVB1	7	
BEBRSVF2	4	10
BEBRSVF3	4	8
BEBRSVF4	4	4

Table 269. Cross Reference for BEB (continued)

Name	Offset	Hex Tag
BEBRSVF5	4	2
BEBRSVF6	4	1
BEBSCCW	38	
BEBSGMT1	8	
BEBSGMT2	18	
BEBSGMT3	28	
BEBVREN	14	
BEBVREN2	24	
BEBVREN3	34	
BEBVRST	10	
BEBVRST2	20	
BEBVRST3	30	
BEB2INUS	4	80
BEB3INUS	4	20

Chapter 51. BLSABDPL Information

BLSABDPL Programming Interface Information

BLSABDPL is a programming interface.

BLSABDPL Heading Information

Common Name:	ABDUMP Parameter List for Formatters
Macro ID:	BLSABDPL
DSECT Name:	ABDPL, ADPLEXTN, AMDCPMAP, ADPLPACC, ADPLPFMT, ADPLPFXT, ADPLPECT, ADPLPSEL, ADPLOSEL, ADPLOSNT
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	None
Storage Attributes:	Main Storage: No Virtual Storage: No Auxiliary Storage: Yes Subpool: 78 (IPCS), 252 (SNAP) Key: 0 (SNAP). 8 (IPCS) Data Space: No Residency: LOC(BELOW,ANY)
Size:	96 bytes
Created by:	IPCS, SNAP
Pointed to by:	None
Serialization:	None

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BLSABDPL Heading Information

Function: BLSABDPL contains mappings of parameter blocks used for communication between IPCS and SNAP dump formatting hosts and the dump formatting exits invoked by them. It is also used by IPCS and SNAP when calling exits to format GTF records.
ABDPL is passed by IPCS or SNAP to each exit. The same block is passed back to service routines available in the two environments.
ADPLEXTN is an extension to ABDPL, the address of which is filled in by IPCS or SNAP before invoking exits.
AMDCPMAP is a description of the data returned by the storage access services in response to a request for CPU STATUS information. Note: This is, hopefully, not to be confused with CPU STATUS records used by stand alone dump to capture the result of a processor Store Status operation for each CPU in the system being dumped. The latter may be accessed via the IPCS Symbol and Storage Map services dump access functions.
ADPLPACC is a description of the parameter list passed by exits when they invoke the storage access service.
ADPLPFMT is a description of the parameter list passed by exits when they invoke the control block formatter and the model processor services.
ADPLPFXT is a description of an extension to ADPLPFMT that may, optionally, be passed by exits to the control block formatter and the model processor services.
ADPLPECT is a description of the parameter list passed by exits to the ECT service.
ADPLPSEL is a description of the parameter list passed by exits to the select service.
ADPLOSEL is a description of the header portion of the data returned by the select service to exits.
ADPLOSNT is a description of one array entry, many of which may be returned by the select service to exits.

BLSABDPL mapping

Table 270. Structure ABDPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ABDPL	, Common IPCS/SNAP parameter list to exits
0	(0)	ADDRESS	4	ADPLCBP(0)	Address of block for exit
0	(0)	ADDRESS	4	ADPLTCB	TCB of task being displayed
4	(4)	SIGNED	2	ADPLASID	Address space identifier
6	(6)	BITSTRING	1	ADPLSBPL	Subpool used to get save area by component routine
7	(7)	BITSTRING	1	ADPLFLAG	Flag field
		1...		ADPLSNPR	"BIT0" 0=Module loaded by SNAP 1=Module loaded by IPCS
		.1..		ADPLSYTM	"BIT1" 0=System is OS/VS2 1=System is OS/VS1
		..1.		ADPLDMGT	"BIT2" 0=Format DEB only (SNAP caller) 1=Format DEB, DCB, IOB (SNAP caller)
		...1		ADPLIPCS	"BIT3" Called by IPCS

Table 270. Structure ABDPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		ADPLPRT	"BIT4" On, SYSPRINT data set request Off, PRINTER data set request
		.... .1..		ADPLSYNO	"BIT5" Exit given control for syntax checking only
		.... ..1.		ADPLEJEC	"BIT6" For a write to PRINTER data set eject page first
		1		ADPLACTV	"BIT7" Source is ACTIVE storage
8	(8)	ADDRESS	4	ADPLBUF	Pointer to output buffer
12	(C)	ADDRESS	4	ADPLPRNT	Address of print routine
16	(10)	ADDRESS	4	ADPLCVT	Address of CVT
20	(14)	ADDRESS	4	ADPLMEMA	Address of memory access routine
24	(18)	ADDRESS	4	ADPLFRMT	Address of format routine
28	(1C)	ADDRESS	4	ADPLCOM1	Reserved for component use
32	(20)	ADDRESS	4	ADPLCOM2	Reserved for component use
36	(24)	ADDRESS	4	ADPLCOM3	Reserved for component use
40	(28)	ADDRESS	4	ADPLCOM4	Reserved for component use
44	(2C)	ADDRESS	4	ADPLFMT1	Reserved for format routine
48	(30)	ADDRESS	4	ADPLFMT2	Reserved for format routine
52	(34)	ADDRESS	4	ADPLEXT	Address of extension, whose 1st word contains the address of the operands list or zero if none.
56	(38)	ADDRESS	4	ADPLABDA	Address of host internal parameter list
60	(3C)	ADDRESS	4	ADPLTRFM	Address of trace control block (SNAP only)
64	(40)	ADDRESS	4	ADPLSERV	->Services router
68	(44)	ADDRESS	1	ADPLLEV	Index indentation level
69	(45)	ADDRESS	1		Entry code number corresponding to AMDMNDXT macro entries Support of this interface ended this release
70	(46)	SIGNED	2	ADPLLNCT	Line count per output page
72	(48)	SIGNED	2	ADPLLNRM	Current number of lines remaining on the output page
74	(4A)	SIGNED	2	ADPLDLEN	Storage access request length
76	(4C)	SIGNED	2	ADPLOPLN	Length of verb operand list
78	(4E)	BITSTRING	1	ADPLPRDP	Dump read/format flags
		1...		ADPLVIRT	"BIT0" Virtual address read
		.1..		ADPLREAL	"BIT1" Real address read
		..1.		ADPLCPU	"BIT2" CPU data read
		...1		ADPLHDR	"BIT3" Dump header read
		The following bit governs the masking of register zero prior to its use by the storage access service as a virtual storage address. If it is off, X'7FFFFFFF' will be logically ANDed with register zero to obtain the requested address. If it is on, X'00FFFFFF' will be logically ANDed with register zero to obtain the requested address.			
		1		ADPLSAMK	"BIT7" MVS/370 virtual address
79	(4F)	ADDRESS	1		reserved
80	(50)	ADDRESS	4	ADPLNDX	Address of the TOC service routine
84	(54)	SIGNED	4	ADPLPGNO	Current output page number

Table 270. Structure ABDPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
88	(58)	ADDRESS	4	ADPLSRA	->Services router area
92	(5C)	BITSTRING	4		reserved
92	(5C)	X'60'	0	ADPLLEN	"*-ABDPL" Length of ABDPL

Table 271. Structure ADPLEXTN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ADPLEXTN	, ABDPL extension
0	(0)	ADDRESS	4	ADPLOPTR	->Operands buffer
4	(4)	ADDRESS	4	ADPLCPPL	->TSO CPPL
8	(8)	ADDRESS	4	ADPLESYP	-> BLSRESSY
12	(C)	SIGNED	2	ADPLCODE	Router return code
14	(E)	BITSTRING	1	ADPLPFLG	Processing flags
		1...		ADPLNMSG	"BIT0" 1=Suppress error messages
		.1..		ADPLNPRT	"BIT1" 1=Suppress print services
15	(F)	BITSTRING	1	ADPLEFLG	Error flags
		1...		ADPLEFAS	"BIT0" 1=No automatic storage
16	(10)	ADDRESS	1	ADPLMAXL	Recommended maximum line width
17	(11)	ADDRESS	1	ADPLSCOL	Control block formatting start column. Zero based. Zero means do not offset the data.
18	(12)	ADDRESS	1	ADPLCOLS	Control block formatting column spacing
19	(13)	BITSTRING	1		reserved
20	(14)	SIGNED	2	ADPLEFCD	Exit function code
20	(14)	X'1'	0	ADPLEFAN	"1,2,C'H'" Exit called as ANALYZE exit
20	(14)	X'2'	0	ADPLEFAC	"2,2,C'H'" Exit called as ASCB exit
20	(14)	X'3'	0	ADPLEFTC	"3,2,C'H'" Exit called as TCB exit
20	(14)	X'4'	0	ADPLEFSR	"4,2,C'H'" Exit called as formatting exit
22	(16)	BITSTRING	1	ADPLEFLE	Environment flags
		1...		ADPLZARCH	"BIT0" z/Architecture dump data
		1...		ADPLESAME	"BIT0" z/Architecture dump data
23	(17)	BITSTRING	41	ADPLRSV1	reserved
23	(17)	X'40'	0	ADPLEXTL	"*-ADPLEXTN" Length of ADPLEXTN
Service codes defining services to router					
23	(17)	X'1'	0	ADPLS000	"1,4,C'F'" 1st service code in use
23	(17)	X'1'	0	ADPLSACC	"1,4,C'F'" Storage access service
23	(17)	X'2'	0	ADPLSPRT	"2,4,C'F'" Print service
23	(17)	X'3'	0	ADPLSFMT	"3,4,C'F'" Format model processor
23	(17)	X'4'	0	ADPLSCBF	"4,4,C'F'" Control block formatter service
23	(17)	X'5'	0	ADPLSNDX	"5,4,C'F'" Index service
23	(17)	X'6'	0	ADPLSECT	"6,4,C'F'" Ect exit service
23	(17)	X'7'	0	ADPLSSEL	"7,4,C'F'" Select ASID service

Table 271. Structure ADPLEXTN (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
23	(17)	X'8'	0	ADPLSEQS	"8,4,C'F'" Equate symbol service
23	(17)	X'9'	0	ADPLSGTS	"9,4,C'F'" Get symbol service
23	(17)	X'A'	0	ADPLSCQE	"10,4,C'F'" CQE create service
23	(17)	X'B'	0	ADPLSCBS	"11,4,C'F'" CB status service
23	(17)	X'C'	0	ADPLSPR2	"12,4,C'F'" Expanded Print service with a parm list. See BLSUPPR2 mapping
23	(17)	X'D'	0	ADPLSADS	"13,4,C'F'" Add symptom service
23	(17)	X'E'	0	ADPLSWHS	"14,4,C'F'" WHERE service
23	(17)	X'F'	0	ADPLSNAM	"15,4,C'F'" NAME service
23	(17)	X'10'	0	ADPLSSYM	"16,4,C'F'" SYMBOL service
23	(17)	X'11'	0	ADPLSMAP	"17,4,C'F'" MAP service
23	(17)	X'12'	0	ADPLSNTK	"18,4,C'F'" NAME/TOKEN service
23	(17)	X'13'	0	ADPLSCSI	"19,4,C'F'" CSVINFO service
23	(17)	X'14'	0	ADPLSSTR	"20,4,C'F'" IXLZSTR service
23	(17)	X'15'	0	ADPLSSYD	"21,4,C'F'" SYMDEF service
23	(17)	X'15'	0	ADPLS999	"21,4,C'F'" Last service code in use

Table 272. Structure AMDCPMAP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	AMDCPMAP	, CPU status record data mapping
0	(0)	BITSTRING	1	AMDCFLAG	CPU status flags
		1...		AMDCUNIP	"BIT0" CPU is a uniprocessor: Processor address is invalid.
		.1..		AMDCSINV	"BIT1" Stand-alone dump unable to store status. Only processor address is valid.
		..1.		AMDCGPRV	"BIT2" Operator did not perform store status. Only general registers and, if MP, processor address are valid.
		...1		AMDCSADP	"BIT3" Not from a stand alone dump
1	(1)	BITSTRING	1	AMDCPAD1	Padding
2	(2)	SIGNED	2	AMDCPADR	Processor address
4	(4)	BITSTRING	168	AMDCREGS(0)	Registers and current PSW
4	(4)	BITSTRING	32	AMDCFREG	Floating point REGs 0,2,4,6
36	(24)	BITSTRING	64	AMDCGREG	General registers
100	(64)	BITSTRING	64	AMDCCREG	Control registers
164	(A4)	BITSTRING	8	AMDCCPSW	Current PSW
172	(AC)	ADDRESS	4	AMDCPREG	Prefix register
176	(B0)	BITSTRING	8	AMDCTIME	CPU timer value
184	(B8)	BITSTRING	8	AMDCLOCK	Clock comparator value
184	(B8)	X'C0'	0	AMDCPMAL	"*-AMDCPMAP" Length of AMDCPMAP

Table 273. Structure ADPLPACC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ADPLPACC	, Storage access parameter list

Table 273. Structure ADPLPACC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	ADDRESS	4	ADPLPAAD	Dump address to access
4	(4)	ADDRESS	4	ADPLPART	Buffer location of data
8	(8)	BITSTRING	56		reserved
8	(8)	X'40'	0	ADPLLACC	"*-ADPLPACC" Length of ADPLPACC

Table 274. Structure ADPLPFMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ADPLPFMT	, Common parameter list
0	(0)	BITSTRING	1	ADPLPOPT	Option flags
		1...		ADPLPOAC	"BIT0" Check acronym
		.1..		ADPLPOIX	"BIT1" Index entry wanted
		..1.		ADPLPOLM	"BIT2" Line mode
		...1		ADPLPOCL	"BIT3" Final host invocation to delete modules and freemain CBAT load table storage
		.... 1...		ADPLPSOF	"BIT4" Suppress offsets
		.... .1..		ADPLPPDA	"BIT5" Print dump address
		.... ..1.		ADPLPSDH	"BIT6" Suppress dump header
		1		ADPLPSTM	"BIT7" Suppress truncation msg
1	(1)	BITSTRING	2	ADPLPRET(0)	Flags for returning information to caller
1	(1)	BITSTRING	1	ADPLPRE1	
		1...		ADPLPRAC	"BIT0" Bad acronym check
		.1..		ADPLPRNL	"BIT1" Unable to load model/formatter
		..1.		ADPLPRNB	"BIT2" Unavailable control block
		...1		ADPLPRNF	"BIT3" Unable to format
		.... 1...		ADPLPRTB	"BIT4" Truncated block
		.... .1..		ADPLPRNC	"BIT5" CBFORMAT service was unable to associate the data type specified with any data type defined
		.... ..1.		ADPLPRNE	"BIT6" CBFORMAT service was able to associate the data type specified with a defined data type, but neither formatter nor model is, in turn, related to the data type
		1		ADPLPRNG	"BIT7" No CBAT load table storage
2	(2)	BITSTRING	1	ADPLPRE2	
		1...		ADPLPRUU	"BIT0" Entry previously marked unuseable
		.1..		ADPLPRIM	"BIT1" Invalid model specification
		..1.		ADPLPRCM	"BIT2" Model error
		...1		ADPLPNVM	"BIT3" No view match, nothing printed
		.... 1...		ADPLPBXI	"BIT4" Bad extension identifier
		.... .1..		ADPLPFEF	"BIT5" Formatting exit failure
		.... ..1.		ADPLPNXD	"BIT6" No EXIT DATA

Table 274. Structure ADPLPFMT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3	(3)	SIGNED	1	ADPLPBLC	Blank line count
4	(4)	CHARACTER	8	ADPLPCHA	Control block acronym or model name
12	(C)	ADDRESS	4	ADPLPPTR	Model address
16	(10)	ADDRESS	4	ADPLPBAS	Buffer address if block is in main storage
20	(14)	SIGNED	2	ADPLPDAC	Dynamic array count
22	(16)	SIGNED	2	ADPLPBLS	Length of block in main storage
24	(18)	ADDRESS	4	ADPLPBAV	Virtual block address in dump
28	(1C)	ADDRESS	4	ADPLPLME	Line mode exit entry point address
32	(20)	BITSTRING	2	ADPLPVCL(0)	Field viewing control
32	(20)	BITSTRING	1	ADPLPVC1	
		1...		ADPLPKEY	"BIT0" Keyfield
		.1..		ADPLPSUM	"BIT1" Summary field
		..1.		ADPLPREG	"BIT2" Register save area
		...1		ADPLPLIN	"BIT3" Linkage field
		.... 1...		ADPLPEFD	"BIT4" Error fields
		.... .1..		ADPLPHEX	"BIT5" Hex dump
		.... ..1.		ADPLPNOR	"BIT6" All non reserved fields
		1		ADPLPRES	"BIT7" Reserved fields
33	(21)	BITSTRING	1	ADPLPVC2	
		1...		ADPLPSTA	"BIT0" Static array
		1...		ADPLPDCD	"BIT0" Decode flagfields
		.1..		ADPLPDYN	"BIT1" Dynamic array
		..1.		ADPLPINP	"BIT2" Input field
		...1		ADPLPOUT	"BIT3" Output field
		.... 1...		ADPLPCV1	"BIT4" Component use
		.... .1..		ADPLPCV2	"BIT5" Component use
		.... ..1.		ADPLPCV3	"BIT6" Component use
		1		ADPLPCV4	"BIT7" Component use
34	(22)	SIGNED	2	ADPLPOSI	Starting offset
36	(24)	SIGNED	4	ADPLPDL(2)	Dimension lower limits
36	(24)	SIGNED	4	ADPLPDL1	Dimension 1 lower limit
40	(28)	SIGNED	4	ADPLPDL2	Dimension 2 lower limit
44	(2C)	SIGNED	4	ADPLPDU(2)	Dimension upper limits
44	(2C)	SIGNED	4	ADPLPDU1	Dimension 1 upper limit
48	(30)	SIGNED	4	ADPLPDU2	Dimension 2 upper limit
52	(34)	BITSTRING	4	ADPLPHBV	High word of blocks virtual address in dump(see ADPLPBAV), 0 if 31 bit address. Used for messages only.
56	(38)	SIGNED	4	ADPLPEXP	-> Format parameter extension
60	(3C)	SIGNED	4	ADPLPFXC	Format exit communication
60	(3C)	X'40'	0	ADPLLFMT	"*-ADPLPFMT" Length of ADPLPFMT

Table 275. Structure ADPLPECT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ADPLPECT	, ECT service parameter list
0	(0)	BITSTRING	1	ADPLPEFG	Flags for choosing exit - '0' indicates verb exit

Table 275. Structure ADPLPECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		ADPLPETB	"BIT0" TCB exit
		.1..		ADPLPEAS	"BIT1" ASCB exit
		..1.		ADPLPEVR	"BIT2" VERB exit
		...1		ADPLPESC	"BIT3" Subcommand or command procedure
		.... .1..		ADPLPESP	"BIT5" Special exit
		.... ..1.		ADPLPENM	"BIT6" Exit name is in ADPLPEVB
		1		ADPLPESR	"BIT7" Formatting exit
1	(1)	BITSTRING	1	ADPLPERR	Flags for returning information to caller
		1...		ADPLPEST	"BIT0" Exit return code='4' indicating insufficient storage
		.1..		ADPLPENV	"BIT1" Verb not found in ECT
		..1.		ADPLPELI	"BIT2" LINK failed - 806 abend
		...1		ADPLPENE	"BIT3" No ESTAE established
2	(2)	BITSTRING	1	ADPLPECF	Control flags
		1...		ADPLPECP	"BIT0" ADPLPEPL -> parm list
		.1..		ADPLPEMA	"BIT1" Use ADPLSAMK value passed
		..1.		ADPLPTOC	"BIT2" Suppressing TOC entries
3	(3)	BITSTRING	1		Reserved
4	(4)	CHARACTER	8	ADPLPEVB	VERB to search on
12	(C)	ADDRESS	4	ADPLPEPL	-> Parameter list to be passed to the exit
16	(10)	ADDRESS	4	ADPLPESY	-> BLSRESSY
20	(14)	BITSTRING	44		Reserved
20	(14)	X'40'	0	ADPLLECT	"*-ADPLPECT" Length of ADPLPECT

Table 276. Structure ADPLPSEL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ADPLPSEL	, Select ASID service parm list
0	(0)	BITSTRING	1	ADPLPSF1	Keyword flags
		1...		ADPLPSAL	"BIT0" ALL
		.1..		ADPLPSCR	"BIT1" CURRENT
		..1.		ADPLPSER	"BIT2" ERROR
		...1		ADPLPSTE	"BIT3" TCBERROR
		.... 1...		ADPLPSJL	"BIT4" JOBLIST
		.... .1..		ADPLPSAS	"BIT5" ASIDLIST
1	(1)	BITSTRING	1	ADPLPSF2	Option flags
		1...		ADPLPSXL	"BIT0" Use extended length
		.1..		ADPLPSAF	"BIT1" Select all ASIDs referenced by the ASIDLIST (if any)
2	(2)	BITSTRING	1		Reserved
3	(3)	BITSTRING	1	ADPLPSCF	Condition flags
		1...		ADPLPSNV	"BIT0" Unable to get ASVT
4	(4)	ADDRESS	4	ADPLPSOL	->Select service output list
8	(8)	ADDRESS	4	ADPLPSJN	->Jobname list
12	(C)	ADDRESS	4	ADPLPSAI	->ASID list
16	(10)	SIGNED	4	ADPLPS31	Extended output length
20	(14)	BITSTRING	44		reserved
20	(14)	X'40'	0	ADPLLSEL	"*-ADPLPSEL" Length of ADPLPSEL

Table 277. Structure ADPLOSEL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ADPLOSEL	, Select ASID output header
0	(0)	BITSTRING	8	ADPLOSHD(0)	Header
0	(0)	SIGNED	2	ADPLOSSZ	Size of entire list
2	(2)	SIGNED	2	ADPLOSCT	Count of entries
4	(4)	BITSTRING	1	ADPLOSSF	Selection flags
		1...		ADPLOSJM	"BIT0" Some jobname(s) not found
		.1..		ADPLOSAU	"BIT1" Some ASID(s) unassigned
		..1.		ADPLOSAM	"BIT2" Some ASID(s) not in dump
5	(5)	BITSTRING	1	ADPLOSDF	Dump flags
		1...		ADPLOSSD	"BIT0" Stand alone dump
6	(6)	BITSTRING	1		Reserved
7	(7)	SIGNED	1	ADPLOSSP	Subpool
8	(8)	DBL WORD	8	ADPLOSNB(0)	End of fixed-length base
8	(8)	X'8'	0	ADPLOSLL	"*-ADPLOSEL" Length of ADPLOSEL

Table 278. Structure ADPLOSNT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ADPLOSNT	, Array, 1 per selected ASID
0	(0)	ADDRESS	4	ADPLOSAP	Pointer to ASCB
4	(4)	BITSTRING	4	ADPLOSCW(0)	Control word
4	(4)	BITSTRING	1	ADPLOSF1	Flag for selection match
		1...		ADPLOSCR	"BIT0" Current on CPU=ASLCPUX
		.1..		ADPLOSJN	"BIT1" Matches jobnames(ASLJOBX)
		..1.		ADPLOSER	"BIT2" ASID in error
		...1		ADPLOSTE	"BIT3" TCBERROR
		.... 1...		ADPLOSAS	"BIT4" Selected by ASIDLIST
		.... .1..		ADPLOSAL	"BIT5" Selected by ALL
5	(5)	BITSTRING	1	ADPLOSF2	Status flags
		1...		ADPLOSHA	"BIT0" CURRENT HOME ASID
		.1..		ADPLOSPA	"BIT1" CURRENT PRIMARY ASID
		..1.		ADPLOSSA	"BIT2" CURRENT SECONDARY ASID
		...1		ADPLOSCM	"BIT3" ASID HOLDS CML LOCK
		.... 1...		ADPLOSND	"BIT4" Address space not in dump
		.... .1..		ADPLOSNA	"BIT5" Private area not accessed
6	(6)	BITSTRING	1	ADPLOSCP	CPUID where current
7	(7)	BITSTRING	3		Reserved
10	(A)	BITSTRING	2	ADPLOSC2	CPUID where current
12	(C)	SIGNED	2	ADPLOSAI	ASID
14	(E)	BITSTRING	2		Reserved
16	(10)	CHARACTER	8	ADPLOSJB	Jobname
24	(18)	BITSTRING	8		RESERVED
24	(18)	X'20'	0	ADPLOSNL	"*-ADPLOSNT" Length of ADPLOSNT

Table 279. Cross Reference for BLSABDPL

Name	Offset	Hex Tag
ABDPL	0	
ADPLABDA	38	

Table 279. Cross Reference for BLSABDPL (continued)

Name	Offset	Hex Tag
ADPLACTV	7	1
ADPLASID	4	0
ADPLBUF	8	
ADPLCBP	0	
ADPLCODE	C	0
ADPLCOLS	12	
ADPLCOM1	1C	
ADPLCOM2	20	
ADPLCOM3	24	
ADPLCOM4	28	
ADPLCPPL	4	
ADPLCPU	4E	20
ADPLCVT	10	
ADPLDLEN	4A	0
ADPLDMGT	7	20
ADPLEFAC	14	2
ADPLEFAN	14	1
ADPLEFAS	F	80
ADPLEFCD	14	0
ADPLEFLE	16	0
ADPLEFLG	F	0
ADPLEFSR	14	4
ADPLEFTC	14	3
ADPLEJEC	7	2
ADPLESAME	16	80
ADPLESYP	8	
ADPLEXT	34	
ADPLEXTL	17	40
ADPLEXTN	0	
ADPLFLAG	7	0
ADPLFMT1	2C	
ADPLFMT2	30	
ADPLFRMT	18	
ADPLHDR	4E	10
ADPLIPCS	7	10
ADPLLACC	8	40
ADPLLECT	14	40
ADPLLEN	5C	60
ADPLLEV	44	
ADPLLFMT	3C	40
ADPLLNCT	46	0
ADPLLNRM	48	0
ADPLLSEL	14	40
ADPLMAXL	10	
ADPLMEMA	14	
ADPLNDX	50	
ADPLNMSG	E	80
ADPLNPRT	E	40
ADPLOPLN	4C	0

Table 279. Cross Reference for BLSABDPL (continued)

Name	Offset	Hex Tag
ADPLOPTR	0	
ADPLOSAI	C	0
ADPLOSAL	4	4
ADPLOSAM	4	20
ADPLOSAP	0	
ADPLOSAS	4	8
ADPLOSAU	4	40
ADPLOSCM	5	10
ADPLOSCP	6	0
ADPLOSCR	4	80
ADPLOSCT	2	0
ADPLOSCW	4	
ADPLOSC2	A	0
ADPLOSDF	5	0
ADPLOSEL	0	
ADPLOSER	4	20
ADPLOSF1	4	0
ADPLOSF2	5	0
ADPLOSHA	5	80
ADPLOSHD	0	
ADPLOSJB	10	40404040
ADPLOSJM	4	80
ADPLOSJN	4	40
ADPLOSLL	8	8
ADPLOSNA	5	4
ADPLOSNB	8	
ADPLOSND	5	8
ADPLOSNL	18	20
ADPLOSNT	0	
ADPLOSPA	5	40
ADPLOSSA	5	20
ADPLOSSD	5	80
ADPLOSSF	4	0
ADPLOSSP	7	0
ADPLOSSZ	0	0
ADPLOSTE	4	10
ADPLPAAD	0	
ADPLPACC	0	
ADPLPART	4	
ADPLPBAS	10	
ADPLPBAV	18	
ADPLPBLC	3	0
ADPLPBLS	16	0
ADPLPBXI	2	8
ADPLPCHA	4	40404040
ADPLPCV1	21	8
ADPLPCV2	21	4
ADPLPCV3	21	2
ADPLPCV4	21	1

Table 279. Cross Reference for BLSABDPL (continued)

Name	Offset	Hex Tag
ADPLPDAC	14	0
ADPLPDCD	21	80
ADPLPDL	24	
ADPLPDL1	24	0
ADPLPDL2	28	0
ADPLPDU	2C	
ADPLPDU1	2C	0
ADPLPDU2	30	0
ADPLPDYN	21	40
ADPLPEAS	0	40
ADPLPECF	2	0
ADPLPECP	2	80
ADPLPECT	0	
ADPLPEFD	20	8
ADPLPEFG	0	0
ADPLPELI	1	20
ADPLPEMA	2	40
ADPLPENE	1	10
ADPLPENM	0	2
ADPLPENV	1	40
ADPLPEPL	C	
ADPLPERR	1	0
ADPLPESC	0	10
ADPLPESP	0	4
ADPLPESR	0	1
ADPLPEST	1	80
ADPLPESY	10	
ADPLPETB	0	80
ADPLPEVB	4	40404040
ADPLPEVR	0	20
ADPLPEXP	38	0
ADPLPFEF	2	4
ADPLPFLG	E	0
ADPLPFMT	0	
ADPLPFXC	3C	0
ADPLPGNO	54	0
ADPLPHBV	34	0
ADPLPHEX	20	4
ADPLPINP	21	20
ADPLPKEY	20	80
ADPLPLIN	20	10
ADPLPLME	1C	
ADPLPNOR	20	2
ADPLPNVM	2	10
ADPLPNXD	2	2
ADPLPOAC	0	80
ADPLPOCL	0	10
ADPLPOIX	0	40
ADPLPOLM	0	20

Table 279. Cross Reference for BLSABDPL (continued)

Name	Offset	Hex Tag
ADPLPOPT	0	0
ADPLPOSI	22	0
ADPLPOUT	21	10
ADPLPPDA	0	4
ADPLPPTR	C	
ADPLPRAC	1	80
ADPLPRCM	2	20
ADPLPRDP	4E	0
ADPLPREG	20	20
ADPLPRES	20	1
ADPLPRET	1	
ADPLPRE1	1	0
ADPLPRE2	2	0
ADPLPRIM	2	40
ADPLPRNB	1	20
ADPLPRNC	1	4
ADPLPRNE	1	2
ADPLPRNF	1	10
ADPLPRNG	1	1
ADPLPRNL	1	40
ADPLPRNT	C	
ADPLPRT	7	8
ADPLPRTB	1	8
ADPLPRUU	2	80
ADPLPSAF	1	40
ADPLPSAI	C	
ADPLPSAL	0	80
ADPLPSAS	0	4
ADPLPSCF	3	0
ADPLPSCR	0	40
ADPLPSDH	0	2
ADPLPSEL	0	
ADPLPSER	0	20
ADPLPSF1	0	0
ADPLPSF2	1	0
ADPLPSJL	0	8
ADPLPSJN	8	
ADPLPSNV	3	80
ADPLPSOF	0	8
ADPLPSOL	4	
ADPLPSTA	21	80
ADPLPSTE	0	10
ADPLPSTM	0	1
ADPLPSUM	20	40
ADPLPSXL	1	80
ADPLPS31	10	0
ADPLPTOC	2	20
ADPLPVCL	20	
ADPLPVC1	20	3

Table 279. Cross Reference for BLSABDPL (continued)

Name	Offset	Hex Tag
ADPLPVC2	21	0
ADPLREAL	4E	40
ADPLRSV1	17	0
ADPLSACC	17	1
ADPLSADS	17	D
ADPLSAMK	4E	1
ADPLSBPL	6	0
ADPLSCBF	17	4
ADPLSCBS	17	B
ADPLSCOL	11	
ADPLSCQE	17	A
ADPLSCSI	17	13
ADPLSECT	17	6
ADPLSEQS	17	8
ADPLSERV	40	
ADPLSFMT	17	3
ADPLSGTS	17	9
ADPLSMAP	17	11
ADPLSNAM	17	F
ADPLSNDX	17	5
ADPLSNPR	7	80
ADPLSNTK	17	12
ADPLSPRT	17	2
ADPLSPR2	17	C
ADPLSRA	58	
ADPLSSEL	17	7
ADPLSSTR	17	14
ADPLSSYD	17	15
ADPLSSYM	17	10
ADPLSWHS	17	E
ADPLSYNO	7	4
ADPLSYTM	7	40
ADPLS000	17	1
ADPLS999	17	15
ADPLTCB	0	
ADPLTRFM	3C	
ADPLVIRT	4E	80
ADPLZARCH	16	80
AMDCCPSW	A4	0
AMDCCREG	64	0
AMDCFLAG	0	0
AMDCFREG	4	0
AMDCGPRV	0	20
AMDCGREG	24	0
AMDCLOCK	B8	0
AMDCPADR	2	0
AMDCPAD1	1	0
AMDCPMAL	B8	C0
AMDCPMAP	0	

Table 279. Cross Reference for BLSABDPL (continued)

Name	Offset	Hex Tag
AMDCPREG	AC	
AMDCREGS	4	
AMDCSADP	0	10
AMDCSINV	0	40
AMDCTIME	B0	0
AMDCUNIP	0	80

Chapter 52. BLSACBSP Information

BLSACBSP Programming Interface Information

BLSACBSP is a programming interface.

BLSACBSP Heading Information

Common Name:	Control Block Status (CBSTAT) service parameter list
Macro ID:	BLSACBSP
DSECT Name:	Selected by invoker
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	CBSP Offset: 0 Length: 4
Storage Attributes:	Main Storage: No Virtual Storage: No Auxiliary Storage: Yes Subpool: Any that may be altered by key 8 programs Key: 8 Data Space: No Residency: LOC(ANY,ANY)
Size:	ABITS=31: 132 bytes ABITS=64: 152 bytes
Created by:	IPCS subcommands concerned with debugging
Pointed to by:	Parameter lists used by IPCS programs to describe a structure for which any CBSTAT exits should be run. The BLSRCBSP structure is also used to inform each CBSTAT exit regarding the location of the structure of interest.
Serialization:	None
Function:	This parameter list is used by IPCS exits to request control block status for a specific control block.

BLSACBSP mapping

Table 280. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

Table 281. Structure CBSP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CBSP	, IPCS CBSTAT parameter list
0	(0)	CHARACTER	1	CBSP000(0)	Begin BLSACBSP #MD99266
A Control Block Status (CBSTAT) parameter list contains the definition of a control block that CBSTAT exits are to produce status for.					
0	(0)	CHARACTER	5	CBSPID(0)	CBSTAT parameter list identifier
0	(0)	CHARACTER	4	CBSPIDC	CBSP acronym

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Table 281. Structure CBSP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	CHARACTER	1	CBSPIDL	BLSACBSP subtype - ABITS=31
4	(4)	X'F1'	0	CBSPIDL31	"C'1'" BLSACBSP subtype - ABITS=31
4	(4)	X'F2'	0	CBSPIDL64	"C'2'" BLSACBSP subtype - ABITS=64
5	(5)	BITSTRING	3		reserved

An IPCS address space is specified by three values:
(1) A two-character code identifying the type of address space:
- Letter code A indicates that the file contains an MVS high-speed dump and that absolute main storage of the dumped system is being referenced (ABSOLUTE)
- Code BL indicates that a physical block in a file is being referenced using a relative block number (BLOCK)
- Code BS indicates that a relative byte address group in the file is being referenced (RBA)
- Code BT indicates that a physical block in a file is being referenced using a relative track address (TTR)
- Letter code C indicates that the file contains an MVS high-speed dump and that the CPU status data for one dumped CPU is being referenced (CPU STATUS)
- Code CE indicates that the file contains an MVS high-speed dump and that vector registers for one CPU are being referenced (CPU DOMAIN(VECTOR))
- Code CR indicates that the file contains an MVS high-speed dump and that real main storage seen by one CPU is being referenced (CPU REAL)
- Code CT indicates that the file contains an MVS high-speed dump and that a console loop trace for one CPU is being referenced (CPU DOMAIN(CPUTRACE))
- Code CV indicates that the file contains an MVS high-speed dump and that virtual main storage seen by one MVS address space dispatched on a designated CPU is being referenced (CPU ASID)
- Code DS indicates that the file contains an MVS high-speed dump and that a data space is being referenced (ASID DSPNAME)
- Letter code H indicates that the file contains an MVS

Table 281. Structure CBSP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		high-speed dump and that the header data for the dump is being referenced (HEADER) - Code LI refers to a literal value associated with a symbol (LITERAL) - Code SB indicates that the file contains an MVS high-speed dump and that the SDUMP 4K buffer is being referenced (DOMAIN(SDUMPBUFFER)) - Code SC indicates that the file contains an MVS high-speed dump and that component data is being referenced (COMPDATA) - Code SD indicates that the file contains an MVS high-speed dump and that the SDUMP summary dump records are being referenced (DOMAIN(SUMDUMP)) - Code SS indicates that the file contains an MVS high-speed dump and that the portion of a data space represented in summary dump records is being referenced (ASID DSPNAME SUMDUMP) - Code SV indicates that the file contains an MVS high-speed dump and that the portion of one MVS address space represented in summary dump records is being referenced (ASID SUMDUMP) (2) A binary integer whose interpretation depends on the preceding code: - For code BL this integer should be the relative block number - For code BS this integer should be the relative byte address group number - For code BT this integer should be the relative track address - For codes DS and SS this integer contains the address space identification (ASID) for the address space that owns the referenced data space. - For code LI this integer is an arbitrary number that IPCS associates with the symbolic literal. Zero is used for literals when no storage is available. - For codes beginning with the letter C this integer contains the System/370 CPU address (STAP instruction) for the referenced			
		CPU or X'FFFFFFFF'. - For other codes this integer has no meaning and should be set to X'FFFFFFFF'. (3) A doubleword whose interpretation depends on the preceding code: - For code A the first fullword contains zero normally. A non-zero associated ASID may appear in the first fullword in the dump header of records written by SADUMP. The second fullword contains binary zeroes in all cases. - For codes CV and SV the first fullword is interpreted as a binary integer that contains the address space identification (ASID) for the referenced address space, and the second fullword contains binary zeroes. - For codes DS and SS the doubleword is interpreted as the DSPNAME for the referenced data space. - For code SC the doubleword is interpreted as a component identifier. - For other codes this doubleword has no meaning and should be set to zero.			
8	(8)	SIGNED	4	(0)	Align on word boundary
8	(8)	CHARACTER	16	CBSPAS(0)	IPCS address space descriptor
8	(8)	CHARACTER	1	CBSPAS0(0)	Begin BLSRDATS #MD03009
8	(8)	CHARACTER	2	CBSPAST(0)	Address space type code
8	(8)	ADDRESS	2		Address space type code
8	(8)	X'C140'	0	ZZZASTA	"C'A '" ABSOLUTE
8	(8)	X'C2D3'	0	ZZZASTBL	"C'BL'" BLOCK
8	(8)	X'C2E2'	0	ZZZASTBS	"C'BS'" RBA

Table 281. Structure CBSP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	X'C2E3'	0	ZZZASTBT	"C'BT'" TTR
8	(8)	X'C340'	0	ZZZASTC	"C'C '" CPU STATUS
8	(8)	X'C3C5'	0	ZZZASTCE	"C'CE'" CPU DOMAIN(VECTOR)
8	(8)	X'C3D9'	0	ZZZASTCR	"C'CR'" CPU REAL
8	(8)	X'C3E3'	0	ZZZASTCT	"C'CT'" CPU DOMAIN(CPUTRACE)
8	(8)	X'C3E5'	0	ZZZASTCV	"C'CV'" CPU ASID
8	(8)	X'C4E2'	0	ZZZASTDS	"C'DS'" ASID DSPNAME
8	(8)	X'C840'	0	ZZZASTH	"C'H '" HEADER
8	(8)	X'D3C9'	0	ZZZASTLI	"C'LI'" LITERAL
8	(8)	X'4040'	0	ZZZASTNO	"C' '" No address space type code
8	(8)	X'E2C2'	0	ZZZASTSB	"C'SB'" DOMAIN(SDUMPBUFFER)
8	(8)	X'E2C3'	0	ZZZASTSC	"C'SC'" COMPDATA
8	(8)	X'E2C4'	0	ZZZASTSD	"C'SD'" DOMAIN(SUMDUMP)
8	(8)	X'E2E2'	0	ZZZASTSS	"C'SS'" ASID DSPNAME SUMDUMP
8	(8)	X'E2E5'	0	ZZZASTSV	"C'SV'" ASID SUMDUMP
10	(A)	BITSTRING	2	CBSPASH	Reserved
12	(C)	SIGNED	4	CBSPAS1(0)	Integer 1
12	(C)	SIGNED	4		Integer 1
16	(10)	CHARACTER	8	CBSPASC(0)	Second qualifier
16	(10)	SIGNED	4	CBSPAS2(0)	Integer 2
16	(10)	SIGNED	4		Integer 2
20	(14)	BITSTRING	4	CBSPAS3	Reserved
24	(18)	CHARACTER	1	CBSPAS9(0)	End BLSRDATS #MD03009
24	(18)	ADDRESS	4	CBSPLAD	CBSP address
24	(18)	X'80'	0	BIT0	"128"
24	(18)	X'40'	0	BIT1	"64"
24	(18)	X'20'	0	BIT2	"32"
24	(18)	X'10'	0	BIT3	"16"
24	(18)	X'8'	0	BIT4	"8"
24	(18)	X'4'	0	BIT5	"4"
24	(18)	X'2'	0	BIT6	"2"
24	(18)	X'1'	0	BIT7	"1"
IPCS records the following properties for areas of storage: - The offset between an addressed byte and the physical origin of this area. - The physical length of this area. - A data type. - An indication whether the area is scalar or an array and, if the area is an array, the number of entries in the array and the subscript which applies to the first entry.					
28	(1C)	SIGNED	4	(0)	Align structure on boundary
28	(1C)	CHARACTER	60	CBSPD(0)	IPCS attribute descriptor
28	(1C)	CHARACTER	1	CBSPD00(0)	Begin BLSRDATC #MD03007
28	(1C)	ADDRESS	4	CBSPDOF	Offset in bytes
32	(20)	ADDRESS	4	CBSPDLE	Length in bytes
36	(24)	SIGNED	1	CBSPDOB	
37	(25)	SIGNED	1	CBSPDLB	
38	(26)	SIGNED	2	(0)	Align structure on boundary
38	(26)	CHARACTER	34	CBSPDT(0)	IPCS data type descriptor
38	(26)	CHARACTER	1	CBSPDT0(0)	Begin BLSRDATT #MD04356
38	(26)	CHARACTER	1	CBSPDTY(0)	Data type code

Table 281. Structure CBSP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
38	(26)	ADDRESS	1		Data type code
------- The following data type codes are supported by IPCS -----					
38	(26)	X'C1'	0	ZZZDTYA	"C'A',1,C'C'" Pointer
38	(26)	X'C2'	0	ZZZDTYB	"C'B',1,C'C'" Bit
38	(26)	X'C3'	0	ZZZDTYC	"C'C',1,C'C'" Character
38	(26)	X'C5'	0	ZZZDTYE	"C'E',1,C'C'" Float
38	(26)	X'C6'	0	ZZZDTYF	"C'F',1,C'C'" Signed
38	(26)	X'C9'	0	ZZZDTYI	"C'I',1,C'C'" Instruction
38	(26)	X'D3'	0	ZZZDTYL	"C'L',1,C'C' Module @D1A"
38	(26)	X'D4'	0	ZZZDTYM	"C'M',1,C'C'" Structure
38	(26)	X'D7'	0	ZZZDTYP	"C'P',1,C'C'" Packed
38	(26)	X'E4'	0	ZZZDTYU	"C'U',1,C'C'" Area
38	(26)	X'E8'	0	ZZZDTYY	"C'Y',1,C'C'" Unsigned
38	(26)	X'E9'	0	ZZZDTYZ	"C'Z',1,C'C'" Zoned
39	(27)	BITSTRING	1		
40	(28)	CHARACTER	31	CBSPDTD	Data name
71	(47)	CHARACTER	1	CBSPDTE	reserved
72	(48)	CHARACTER	1	CBSPDT9(0)	End BLSRDATT #MD04356
72	(48)	SIGNED	4	CBSPDIM	Array entry count
76	(4C)	SIGNED	4	CBSPDIL	Subscript of initial array entry
80	(50)	BITSTRING	4	CBSPDF	Flags
		1...		CBSPDFA	"BIT0" Array
84	(54)	BITSTRING	4		
88	(58)	CHARACTER	1	CBSPD99(0)	End BLSRDATC #MD03007
88	(58)	ADDRESS	4	CBSPBFAD	Address of buffer containing a copy of the control block being processed
92	(5C)	CHARACTER	8	CBSPMODN	Name of module requesting the service @L1P
100	(64)	BITSTRING	32		Reserved
132	(84)	CHARACTER	1	CBSP999(0)	End BLSACBSP #MD99266

Table 282. Cross Reference for BLSACBSP

Name	Offset	Hex Tag
BIT0	18	80
BIT1	18	40
BIT2	18	20
BIT3	18	10
BIT4	18	8
BIT5	18	4
BIT6	18	2
BIT7	18	1
CBSP	0	
CBSPAS	8	
CBSPASC	10	
CBSPASH	A	0
CBSPAST	8	
CBSPAS0	8	
CBSPAS1	C	

Table 282. Cross Reference for BLSACBSP (continued)

Name	Offset	Hex Tag
CBSPAS2	10	
CBSPAS3	14	0
CBSPAS9	18	
CBSPBFAD	58	
CBSPD	1C	
CBSPDF	50	0
CBSPDFA	50	80
CBSPDIL	4C	0
CBSPDIM	48	0
CBSPDLB	25	0
CBSPDLE	20	
CBSPDOB	24	0
CBSPDOF	1C	
CBSPDT	26	
CBSPDTD	28	40404040
CBSPDTE	47	40
CBSPDTY	26	
CBSPDT0	26	
CBSPDT9	48	
CBSPD00	1C	
CBSPD99	58	
CBSPID	0	
CBSPIDC	0	C3C2E2D7
CBSPIDL	4	F1
CBSPIDL31	4	F1
CBSPIDL64	4	F2
CBSPLAD	18	
CBSPMODN	5C	40404040
CBSP000	0	
CBSP999	84	
ZZZASTA	8	C140
ZZZASTBL	8	C2D3
ZZZASTBS	8	C2E2
ZZZASTBT	8	C2E3
ZZZASTC	8	C340
ZZZASTCE	8	C3C5
ZZZASTCR	8	C3D9
ZZZASTCT	8	C3E3
ZZZASTCV	8	C3E5
ZZZASTDS	8	C4E2
ZZZASTH	8	C840
ZZZASTLI	8	D3C9
ZZZASTNO	8	4040
ZZZASTSB	8	E2C2
ZZZASTSC	8	E2C3
ZZZASTSD	8	E2C4
ZZZASTSS	8	E2E2
ZZZASTSV	8	E2E5
ZZZDTYA	26	C1

Table 282. Cross Reference for BLSACBSP (continued)

Name	Offset	Hex Tag
ZZZDTYB	26	C2
ZZZDTYC	26	C3
ZZZDTYE	26	C5
ZZZDTYF	26	C6
ZZZDTYI	26	C9
ZZZDTYL	26	D3
ZZZDTYM	26	D4
ZZZDTYP	26	D7
ZZZDTYU	26	E4
ZZZDTYY	26	E8
ZZZDTYZ	26	E9

Chapter 53. BLSADSY Information

BLSADSY Programming Interface Information

BLSADSY is a programming interface.

BLSADSY Heading Information

Common Name:	Add symptom service parameter list
Macro ID:	BLSADSY
DSECT Name:	DSECT name is chosen by user on macro invocation. The DSECT name may be suppressed on macro invocation.
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	ADSY Offset: 0 Length: 4
Storage Attributes:	Subpool: any key 8 Key: 8 Data Space: no Residency: LOC(ANY)
Size:	64 bytes
Created by:	Calling program in the IPCS host environment
Pointed to by:	N/A
Serialization:	N/A
Function:	This parameter list is used by IPCS exits to provide additional symptoms to the dump header record. OPERATION = Create a mapping for BLSADSY

BLSADSY mapping

Table 283. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'80'	0	BIT0	"128"
0	(0)	X'40'	0	BIT1	"64"
0	(0)	X'20'	0	BIT2	"32"
0	(0)	X'10'	0	BIT3	"16"
0	(0)	X'8'	0	BIT4	"8"
0	(0)	X'4'	0	BIT5	"4"
0	(0)	X'2'	0	BIT6	"2"
0	(0)	X'1'	0	BIT7	"1"

Table 284. Structure ADSY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ADSY	, IPCS add symptom parameter list
0	(0)	CHARACTER	1	ADSY000(0)	Begin BLSADSY #MD86158

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Table 284. Structure ADSY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
An add symptom (ADSY) parameter list contains the address and length of a symptom to be placed in the symptom record portion of the dump header record.					
0	(0)	CHARACTER	5	ADSYID(0)	Add symptom parameter identifier
0	(0)	CHARACTER	4	ADSYIDC	ADSY acronym
4	(4)	CHARACTER	1	ADSYIDL	ADSY level indicator
5	(5)	BITSTRING	3	ADSYFLGS(0)	Processing flags
5	(5)	BITSTRING	1	ADSYFL1	First byte of flags
		1...		ADSYNOSV	"BIT0" Do not add symptom on a SVC dump
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	8	ADSYMODN	Name of module requesting the service
16	(10)	ADDRESS	4	ADSYMP	Pointer to a buffer containing a symptom string
20	(14)	SIGNED	4	ADSYML	Length of the symptom string
24	(18)	ADDRESS	4	ADSYMP2	Pointer to a buffer containing a symptom string for pairing
28	(1C)	SIGNED	4	ADSYML2	Length of the symptom string to be paired
32	(20)	BITSTRING	32	ADSYRV2	Reserved
64	(40)	CHARACTER	1	ADSY999(0)	End BLSADSY #MD86158

Table 285. Cross Reference for BLSADSY

Name	Offset	Hex Tag
ADSY	0	
ADSYFLGS	5	
ADSYFL1	5	0
ADSYID	0	
ADSYIDC	0	C1C4E2E8
ADSYIDL	4	F1
ADSYML	14	0
ADSYML2	1C	0
ADSYMODN	8	40404040
ADSYMP	10	
ADSYMP2	18	
ADSYNOSV	5	80
ADSYRV2	20	0
ADSY000	0	
ADSY999	40	
BIT0	0	80
BIT1	0	40
BIT2	0	20
BIT3	0	10
BIT4	0	8
BIT5	0	4
BIT6	0	2
BIT7	0	1

Chapter 54. BLSAPCQE Information

BLSAPCQE Programming Interface Information

BLSAPCQE is a programming interface.

BLSAPCQE Heading Information

Common Name:	Contention Queue Element (CQE) create service parameter list
Macro ID:	BLSAPCQE
DSECT Name:	PCQE
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	PCQE Offset: 0 Length: 4
Storage Attributes:	Subpool: any key 8 Key: 8 Data Space: no Residency: LOC(ANY)
Size:	154
Created by:	Invoker of CQE create service
Pointed to by:	CQE create service parameter list
Serialization:	none
Function:	Describe the structure of the contention queue service parameter list used by IPCS dump exits to create contention queue entries in the dump directory. OPERATION = Create a mapping for BLSAPCQE

BLSAPCQE mapping

Table 286. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'80'	0	BIT0	"128"
0	(0)	X'40'	0	BIT1	"64"
0	(0)	X'20'	0	BIT2	"32"
0	(0)	X'10'	0	BIT3	"16"
0	(0)	X'8'	0	BIT4	"8"
0	(0)	X'4'	0	BIT5	"4"
0	(0)	X'2'	0	BIT6	"2"
0	(0)	X'1'	0	BIT7	"1"

Table 287. Structure PCQE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCQE	, CQE create parameter list
0	(0)	CHARACTER	1	PCQE000(0)	Begin BLSAPCQE #MD85283

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Table 287. Structure PCQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
A CQE create parameter list (PCQE) defines the owner or waiter for a resource which may be in contention.					
0	(0)	CHARACTER	5	PCQEID(0)	Control block identifier
0	(0)	CHARACTER	4	PCQEIDC	Control block acronym
4	(4)	CHARACTER	1	PCQEIDL	Control block level indicator
5	(5)	BITSTRING	3		Reserved
8	(8)	ADDRESS	4	PCQERSA	Address of resource name
12	(C)	ADDRESS	4	PCQEADA	Address of additional data
16	(10)	SIGNED	4		Reserved
20	(14)	SIGNED	2	PCQERSL	Length of resource name
22	(16)	SIGNED	2	PCQEADL	Length of additional data
24	(18)	CHARACTER	8	PCQESYNM	System name (e.g.CVTSNAME)
32	(20)	CHARACTER	8	PCQEJOBN	Jobname or component specific id
40	(28)	CHARACTER	2	PCQEOW	O=Owner W=Waiter
42	(2A)	BITSTRING	2		Reserved
An IPCS address space is specified by three values: (1) A two-character code identifying the type of address space: - Letter code A indicates that the file contains an MVS high-speed dump and that absolute main storage of the dumped system is being referenced (ABSOLUTE) - Code BL indicates that a physical block in a file is being referenced using a relative block number (BLOCK) - Code BS indicates that a relative byte address group in the file is being referenced (RBA) - Code BT indicates that a physical block in a file is being referenced using a relative track address (TTR) - Letter code C indicates that the file contains an MVS high-speed dump and that the CPU status data for one dumped CPU is being referenced (CPU STATUS) - Code CE indicates that the file contains an MVS high-speed dump and that vector registers for one CPU are being referenced (CPU DOMAIN(VECTOR)) - Code CR indicates that the file contains an MVS high-speed dump and that real main storage seen by one CPU is being referenced (CPU REAL) - Code CT indicates that the file contains an MVS high-speed dump and that a console loop trace for one CPU is being referenced (CPU DOMAIN(CPUTRACE)) - Code CV indicates that the file contains an MVS high-speed dump and that virtual main storage seen by one MVS address space dispatched on a designated CPU is being referenced (CPU ASID) - Code DS indicates that the file contains an MVS high-speed dump and that a data space is being referenced (ASID DSPNAME) - Letter code H indicates that the file contains an MVS					

Table 287. Structure PCQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		high-speed dump and that the header data for the dump is being referenced (HEADER) - Code LI refers to a literal value associated with a symbol (LITERAL) - Code SB indicates that the file contains an MVS high-speed dump and that the SDUMP 4K buffer is being referenced (DOMAIN(SDUMPBUFFER)) - Code SC indicates that the file contains an MVS high-speed dump and that component data is being referenced (COMPDATA) - Code SD indicates that the file contains an MVS high-speed dump and that the SDUMP summary dump records are being referenced (DOMAIN(SUMDUMP)) - Code SS indicates that the file contains an MVS high-speed dump and that the portion of a data space represented in summary dump records is being referenced (ASID DSPNAME SUMDUMP) - Code SV indicates that the file contains an MVS high-speed dump and that the portion of one MVS address space represented in summary dump records is being referenced (ASID SUMDUMP) (2) A binary integer whose interpretation depends on the preceding code: - For code BL this integer should be the relative block number - For code BS this integer should be the relative byte address group number - For code BT this integer should be the relative track address - For codes DS and SS this integer contains the address space identification (ASID) for the address space that owns the referenced data space. - For code LI this integer is an arbitrary number that IPCS associates with the symbolic literal. Zero is used for literals when no storage is available. - For codes beginning with the letter C this integer contains the System/370 CPU address (STAP instruction) for the referenced			
		CPU or X'FFFFFFFF'. - For other codes this integer has no meaning and should be set to X'FFFFFFFF'. (3) A doubleword whose interpretation depends on the preceding code: - For code A the first fullword contains zero normally. A non-zero associated ASID may appear in the first fullword in the dump header of records written by SADUMP. The second fullword contains binary zeroes in all cases. - For codes CV and SV the first fullword is interpreted as a binary integer that contains the address space identification (ASID) for the referenced address space, and the second fullword contains binary zeroes. - For codes DS and SS the doubleword is interpreted as the DSPNAME for the referenced data space. - For code SC the doubleword is interpreted as a component identifier. - For other codes this doubleword has no meaning and should be set to zero.			
44	(2C)	SIGNED	4	(0)	Align on word boundary
44	(2C)	CHARACTER	16	PCQEAS(0)	IPCS address space descriptor
44	(2C)	CHARACTER	1	PCQEAS0(0)	Begin BLSRDATS #MD03009
44	(2C)	CHARACTER	2	PCQEAST(0)	Address space type code
44	(2C)	ADDRESS	2		Address space type code
44	(2C)	X'C140'	0	ZZZASTA	"C'A '" ABSOLUTE
44	(2C)	X'C2D3'	0	ZZZASTBL	"C'BL'" BLOCK
44	(2C)	X'C2E2'	0	ZZZASTBS	"C'BS'" RBA

Table 287. Structure PCQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
44	(2C)	X'C2E3'	0	ZZZASTBT	"C'BT'" TTR
44	(2C)	X'C340'	0	ZZZASTC	"C'C '" CPU STATUS
44	(2C)	X'C3C5'	0	ZZZASTCE	"C'CE'" CPU DOMAIN(VECTOR)
44	(2C)	X'C3D9'	0	ZZZASTCR	"C'CR'" CPU REAL
44	(2C)	X'C3E3'	0	ZZZASTCT	"C'CT'" CPU DOMAIN(CPUTRACE)
44	(2C)	X'C3E5'	0	ZZZASTCV	"C'CV'" CPU ASID
44	(2C)	X'C4E2'	0	ZZZASTDS	"C'DS'" ASID DSPNAME
44	(2C)	X'C840'	0	ZZZASTH	"C'H '" HEADER
44	(2C)	X'D3C9'	0	ZZZASTLI	"C'LI'" LITERAL
44	(2C)	X'4040'	0	ZZZASTNO	"C' '" No address space type code
44	(2C)	X'E2C2'	0	ZZZASTSB	"C'SB'" DOMAIN(SDUMPBUFFER)
44	(2C)	X'E2C3'	0	ZZZASTSC	"C'SC'" COMPDATA
44	(2C)	X'E2C4'	0	ZZZASTSD	"C'SD'" DOMAIN(SUMDUMP)
44	(2C)	X'E2E2'	0	ZZZASTSS	"C'SS'" ASID DSPNAME SUMDUMP
44	(2C)	X'E2E5'	0	ZZZASTSV	"C'SV'" ASID SUMDUMP
46	(2E)	BITSTRING	2	PCQEASH	Reserved
48	(30)	SIGNED	4	PCQEAS1(0)	Integer 1
48	(30)	SIGNED	4		Integer 1
52	(34)	CHARACTER	8	PCQEASC(0)	Second qualifier
52	(34)	SIGNED	4	PCQEAS2(0)	Integer 2
52	(34)	SIGNED	4		Integer 2
56	(38)	BITSTRING	4	PCQEAS3	Reserved
60	(3C)	CHARACTER	1	PCQEAS9(0)	End BLSRDATS #MD03009
60	(3C)	ADDRESS	4	PCQELAD	Logical address
IPCS records the following properties for areas of storage: - The offset between an addressed byte and the physical origin of this area. - The physical length of this area. - A data type. - An indication whether the area is scalar or an array and, if the area is an array, the number of entries in the array and the subscript which applies to the first entry.					
64	(40)	SIGNED	4	(0)	Align structure on boundary
64	(40)	CHARACTER	60	PCQED(0)	IPCS attribute descriptor
64	(40)	CHARACTER	1	PCQED00(0)	Begin BLSRDATC #MD03007
64	(40)	ADDRESS	4	PCQEDOF	Offset in bytes
68	(44)	ADDRESS	4	PCQEDLE	Length in bytes
72	(48)	SIGNED	1	PCQEDOB	
73	(49)	SIGNED	1	PCQEDLB	
74	(4A)	SIGNED	2	(0)	Align structure on boundary
74	(4A)	CHARACTER	34	PCQEDT(0)	IPCS data type descriptor
74	(4A)	CHARACTER	1	PCQEDT0(0)	Begin BLSRDATT #MD04356
74	(4A)	CHARACTER	1	PCQEDTY(0)	Data type code
74	(4A)	ADDRESS	1		Data type code
------- The following data type codes are supported by IPCS -----					
74	(4A)	X'C1'	0	ZZZDTYA	"C'A',1,C'C'" Pointer
74	(4A)	X'C2'	0	ZZZDTYB	"C'B',1,C'C'" Bit
74	(4A)	X'C3'	0	ZZZDTYC	"C'C',1,C'C'" Character
74	(4A)	X'C5'	0	ZZZDTYE	"C'E',1,C'C'" Float
74	(4A)	X'C6'	0	ZZZDTYF	"C'F',1,C'C'" Signed
74	(4A)	X'C9'	0	ZZZDTYI	"C'I',1,C'C'" Instruction

Table 287. Structure PCQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
74	(4A)	X'D3'	0	ZZZDTYL	"C'L',1,C'C' Module @D1A"
74	(4A)	X'D4'	0	ZZZDTYM	"C'M',1,C'C'" Structure
74	(4A)	X'D7'	0	ZZZDTYP	"C'P',1,C'C'" Packed
74	(4A)	X'E4'	0	ZZZDTYU	"C'U',1,C'C'" Area
74	(4A)	X'E8'	0	ZZZDTYY	"C'Y',1,C'C'" Unsigned
74	(4A)	X'E9'	0	ZZZDTYZ	"C'Z',1,C'C'" Zoned
75	(4B)	BITSTRING	1		
76	(4C)	CHARACTER	31	PCQEDTD	Data name
107	(6B)	CHARACTER	1	PCQEDTE	reserved
108	(6C)	CHARACTER	1	PCQEDT9(0)	End BLSRDATT #MD04356
108	(6C)	SIGNED	4	PCQEDIM	Array entry count
112	(70)	SIGNED	4	PCQEDIL	Subscript of initial array entry
116	(74)	BITSTRING	4	PCQEDF	Flags
		1...		PCQEDFA	"BIT0" Array
120	(78)	BITSTRING	4		
124	(7C)	CHARACTER	1	PCQED99(0)	End BLSRDATC #MD03007
124	(7C)	CHARACTER	8	PCQEMODN	Name of module requesting the service
132	(84)	ADDRESS	4	PCQEREQA	Address of time of request (TOD)
136	(88)	ADDRESS	4	PCQEGRTA	Address of time of grant (TOD)
140	(8C)	BITSTRING	14		Reserved
154	(9A)	CHARACTER	1	PCQE999(0)	End BLSAPCQE #MD85283

Table 288. Cross Reference for BLSAPCQE

Name	Offset	Hex Tag
BIT0	0	80
BIT1	0	40
BIT2	0	20
BIT3	0	10
BIT4	0	8
BIT5	0	4
BIT6	0	2
BIT7	0	1
PCQE	0	
PCQEADA	C	
PCQEADL	16	0
PCQEAS	2C	
PCQEASC	34	
PCQEASH	2E	0
PCQEAST	2C	
PCQEAS0	2C	
PCQEAS1	30	
PCQEAS2	34	
PCQEAS3	38	0
PCQEAS9	3C	
PCQED	40	
PCQEDF	74	0
PCQEDFA	74	80
PCQEDIL	70	0

Table 288. Cross Reference for BLSAPCQE (continued)

Name	Offset	Hex Tag
PCQEDIM	6C	0
PCQEDLB	49	0
PCQEDLE	44	
PCQEDOB	48	0
PCQEDOF	40	
PCQEDT	4A	
PCQEDTD	4C	40404040
PCQEDTE	6B	40
PCQEDTY	4A	
PCQEDT0	4A	
PCQEDT9	6C	
PCQED00	40	
PCQED99	7C	
PCQEGRTA	88	
PCQEID	0	
PCQEIDC	0	D7C3D8C5
PCQEIDL	4	F1
PCQEJOBN	20	40404040
PCQELAD	3C	
PCQEMODN	7C	40404040
PCQEOW	28	D640
PCQEREQA	84	
PCQERSA	8	
PCQERSL	14	0
PCQESYNM	18	40404040
PCQE000	0	
PCQE999	9A	
ZZZASTA	2C	C140
ZZZASTBL	2C	C2D3
ZZZASTBS	2C	C2E2
ZZZASTBT	2C	C2E3
ZZZASTC	2C	C340
ZZZASTCE	2C	C3C5
ZZZASTCR	2C	C3D9
ZZZASTCT	2C	C3E3
ZZZASTCV	2C	C3E5
ZZZASTDS	2C	C4E2
ZZZASTH	2C	C840
ZZZASTLI	2C	D3C9
ZZZASTNO	2C	4040
ZZZASTSB	2C	E2C2
ZZZASTSC	2C	E2C3
ZZZASTSD	2C	E2C4
ZZZASTSS	2C	E2E2
ZZZASTSV	2C	E2E5
ZZZDTYA	4A	C1
ZZZDTYB	4A	C2
ZZZDTYC	4A	C3
ZZZDTYE	4A	C5

Table 288. Cross Reference for BLSAPCQE (continued)

Name	Offset	Hex Tag
ZZZDTYF	4A	C6
ZZZDTYI	4A	C9
ZZZDTYL	4A	D3
ZZZDTYM	4A	D4
ZZZDTYP	4A	D7
ZZZDTYU	4A	E4
ZZZDTYY	4A	E8
ZZZDTYZ	4A	E9

Chapter 55. BLSQEXTP Information

BLSQEXTP Programming Interface Information

BLSQEXTP is a programming interface.

BLSQEXTP Heading Information

Common Name:	BLSQEXTI parameter list
Macro ID:	BLSQEXTP
DSECT Name:	EXTP
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	none
Storage Attributes:	Main Storage: NO Virtual Storage: YES Auxiliary Storage: YES Subpool: Any readable and writable by BLSQEXTI Key: Any Data Space: NO Residency: LOC(ANY)
Size:	8 bytes
Created by:	SNAP/ABDUMP, IPCS, et. al.
Pointed to by:	2nd entry in formal parameter list to BLSQEXTI
Serialization:	None
Function:	Map the input parameter list for BLSQEXTI. Retain information during the period that common services are available.

BLSQEXTP mapping

Table 289. Structure EXTP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EXTP	, BLSQEXTI parms
0	(0)	SIGNED	4	(0)	...
0	(0)	BITSTRING	1	EXTPFUNC	Function code
		1...		EXTPINIT	"BIT0" Initialize pointers
		.1..		EXTPDEL	"BIT1" Delete services
1	(1)	BITSTRING	1	EXTPSERV	Service indicators
		1...		EXTPSFMT	"BIT0" AMDPRFMT,BLSQCFMT and BLSQIFMT
2	(2)	BITSTRING	2		reserved
4	(4)	ADDRESS	4	EXTPRETN	-> Returned load list

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Chapter 56. BLSQFXL Information

BLSQFXL Programming Interface Information

BLSQFXL is a programming interface.

BLSQFXL Heading Information

Common Name:	Format Exit List
Macro ID:	BLSQFXL
DSECT Name:	FXL
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 0 through 127, or 251 Key: 8 Residency: Pageable storage that may both be read and written by key 8 application programs.
Size:	204 bytes
Created by:	BLSQFORM
Pointed to by:	N/A
Serialization:	N/A
Function:	Map the format exit list of line information that is passed by BLSQFORM to routines that gain control during the formatting process, either in line mode, or in response to the CALLRTN flag in a model entry.

==========

BLSQFXL mapping

Table 290. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'80'	0	BIT0	"128"
0	(0)	X'40'	0	BIT1	"64"
0	(0)	X'20'	0	BIT2	"32"
0	(0)	X'10'	0	BIT3	"16"
0	(0)	X'8'	0	BIT4	"8"
0	(0)	X'4'	0	BIT5	"4"
0	(0)	X'2'	0	BIT6	"2"
0	(0)	X'1'	0	BIT7	"1"

Table 291. Structure FXL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FXL	, Format exit list map
0	(0)	ADDRESS	4	FXLMHDR	Pointer to Model header
4	(4)	ADDRESS	4	FXLMENT	Pointer to Model entry
8	(8)	SIGNED	1	FXLLPOS	Exit label position
9	(9)	SIGNED	1	FXLDPOS	Exit data position

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Table 291. Structure FXL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
10	(A)	BITSTRING	2	FXLDLEV	Exit list level = 0001
12	(C)	ADDRESS	4	FXLDPTR	Data pointer
16	(10)	SIGNED	2	FXLLNO	Line number
18	(12)	SIGNED	1	FXLNLPOS	Next buffer label position
19	(13)	SIGNED	1	FXLNDPOS	Next buffer data position
20	(14)	SIGNED	2	FXLENDX	Model entry index
22	(16)	SIGNED	1	FXLITMC	Item count
23	(17)	BITSTRING	1	FXLCTF	Control flags
		1...		FXLQUIT	"BIT0" Quit processing
		.1..		FXLLAST	"BIT1" Last call for cleanup
24	(18)	SIGNED	2	FXLCOLD	Column depth
26	(1A)	SIGNED	2	FXLENTNM	Array entry number
28	(1C)	BITSTRING	4	FXLLINE(40)	Line information array def
28	(1C)	SIGNED	1	FXLILBP	Item label position
29	(1D)	SIGNED	1	FXLIDTP	Item data position
30	(1E)	SIGNED	2	FXLIDTL	Item data length
32	(20)	BITSTRING	1	FXLIFLG	Item flags
		1...		FXLCHAR	"BIT0" Character field
		.1..		FXLHEX	"BIT1" Hex field
		..1.		FXLSHDR	"BIT2" Subheader field
		.... 1...		FXLBYPS	"BIT4" Bypass this entry

Table 292. Cross Reference for BLSQFXL

Name	Offset	Hex Tag
BIT0	0	80
BIT1	0	40
BIT2	0	20
BIT3	0	10
BIT4	0	8
BIT5	0	4
BIT6	0	2
BIT7	0	1
FXL	0	
FXLBYPS	20	8
FXLCHAR	20	80
FXLCOLD	18	0
FXLCTF	17	0
FXLDLEV	A	1
FXLDPOS	9	0
FXLDPTR	C	
FXLENDX	14	0
FXLENTNM	1A	0
FXLHEX	20	40
FXLIDTL	1E	0
FXLIDTP	1D	0
FXLIFLG	20	0
FXLILBP	1C	0
FXLITMC	16	0
FXLLAST	17	40

Table 292. Cross Reference for BLSQFXL (continued)

Name	Offset	Hex Tag
FXLLINE	1C	
FXLLNO	10	0
FXLLPOS	8	0
FXLMENT	4	
FXLMHDR	0	
FXLNDPOS	13	0
FXLNLPOS	12	0
FXLQUIT	17	80
FXLSHDR	20	20

Chapter 57. BLSQNTKP Information

BLSQNTKP Programming Interface Information

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

- NTKPALEV
- NTKPLCODE
- NTKPOUT
- NTKPOUTL
- NTKPRBAD
- NTKPSLEV
- NTKPTLEV
- NTKP999

BLSQNTKP Heading Information

Common Name:	Name/Token Service Parameter List
Macro ID:	BLSQNTKP
DSECT Name:	Caller supplied
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	NTKP Offset: 0 Length: 4
Storage Attributes:	Main Storage: N/A Virtual Storage: Yes Auxiliary Storage: N/A Subpool: 0 Key: 8 Data Space: no Residency: Either above or below
Size:	132 bytes
Created by:	Caller
Pointed to by:	Parameter list
Serialization:	N/A
Function:	BLSQNTKP contains the mapping of the parameters used for communication between IPCS exits and the Name/Token service exit.

BLSQNTKP mapping

Table 293. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'80'	0	BIT0	"128"
0	(0)	X'40'	0	BIT1	"64"
0	(0)	X'20'	0	BIT2	"32"
0	(0)	X'10'	0	BIT3	"16"
0	(0)	X'8'	0	BIT4	"8"

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Table 293. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'4'	0	BIT5	"4"
0	(0)	X'2'	0	BIT6	"2"
0	(0)	X'1'	0	BIT7	"1"

Table 294. Structure NTKP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NTKP	, IPCS name service parameter list
0	(0)	CHARACTER	1	NTKP000(0)	Begin BLSQNTKP
0	(0)	CHARACTER	6	NTKPID(0)	Name/Token service parameter identifier
0	(0)	CHARACTER	4	NTKPIDC	NTKP acronym
4	(4)	CHARACTER	1	NTKPIDL	NTKP level indicator
5	(5)	CHARACTER	1		Reserved
6	(6)	SIGNED	2	NTKPLCODE	Level code
8	(8)	CHARACTER	8	NTKPMODN	The name of the module requesting the service
16	(10)	CHARACTER	16	NTKPNAME	The input NAME to be translated
32	(20)	ADDRESS	4	NTKPTCBP	The TCB the input NAME is associated with
36	(24)	BITSTRING	2	NTKPASID	The ASID the input NAME is associated with
38	(26)	BITSTRING	2	NTKPPFLG(0)	Processing flags
38	(26)	BITSTRING	1	NTKPPFL1	First byte of flags (input)
		1...		NTKPFNOT	"X'80'" No output requested Set by caller, not housekept
39	(27)	BITSTRING	1	NTKPPFL2	Second byte of flags (output)
		1...		NTKPNOTF	"X'80'" Requested Name/Token not found
		.1..		NTKPAUTH	"X'40'" The Name/Token element creator was authorized
		..1.		NTKPPRST	"X'20'" The Name/Token element was marked persistent
		...1		NTKPMSTG	"X'10'" Missing storage
		.... 1...		NTKPFLERR	"X'08'" Logical error in data
40	(28)	ADDRESS	4	NTKPRBAD	Referenced block address, ASSB/STCB
44	(2C)	BITSTRING	16	NTKPTOKN	The output TOKEN
60	(3C)	SIGNED	4	NTKPOUTL	Length of contents of NTKPOUT field
64	(40)	CHARACTER	40	NTKPOUT	Name/Token service output area
104	(68)	BITSTRING	2	NTKPCASID	The ASID the input NAME is associated with, for system level requests
106	(6A)	BITSTRING	26	NTKPRSVD	Reserved
132	(84)	CHARACTER	1	NTKP999(0)	End BLSQNTKP
132	(84)	X'1'	0	NTKPTLEV	"1,C'H',2" Task level
132	(84)	X'2'	0	NTKPALEV	"2,C'H',2" Address space level
132	(84)	X'3'	0	NTKPSLEV	"3,C'H',2" System level

Table 295. Cross Reference for BLSQNTKP

Name	Offset	Hex Tag
BIT0	0	80
BIT1	0	40
BIT2	0	20
BIT3	0	10
BIT4	0	8
BIT5	0	4
BIT6	0	2
BIT7	0	1
NTKP	0	
NTKPALEV	84	2
NTKPASID	24	0
NTKPAUTH	27	40
NTKPCASID	68	0
NTKPFLERR	27	8
NTKPFNOT	26	80
NTKPID	0	
NTKPIDC	0	D5E3D2D7
NTKPIDL	4	F1
NTKPLCODE	6	0
NTKPMODN	8	40404040
NTKPMSTG	27	10
NTKPNAME	10	40404040
NTKPNOTF	27	80
NTKPOUT	40	40404040
NTKPOUTL	3C	0
NTKPPFLG	26	
NTKPPFL1	26	0
NTKPPFL2	27	0
NTKPPRST	27	20
NTKPRBAD	28	
NTKPRSVD	6A	0
NTKPSLEV	84	3
NTKPTCBP	20	
NTKPTLEV	84	1
NTKPTOKN	2C	0
NTKP000	0	
NTKP999	84	

Chapter 58. BLSRDATC Information

BLSRDATC Programming Interface Information

BLSRDATC is a programming interface.

BLSRDATC Heading Information

Common Name:	IPCS attributes
Macro ID:	BLSRDATC
DSECT Name:	DATC
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	none
Storage Attributes:	Main Storage: No Virtual Storage: No Auxiliary Storage: Yes Subpool: Any that may be altered by key 8 programs Key: 8 Data Space: No Residency: LOC(ANY,ANY)
Size:	ABITS=31: 60 bytes ABITS=64: 76 bytes
Created by:	IPCS subcommands concerned with debugging
Pointed to by:	Parameter lists used by IPCS programs to describe a block of storage in a dump or trace data set or a reconstruction of part of a dumped system.
Serialization:	None
Function:	Define the structure of the BLSRDATC data area. This is the structure in which IPCS stores the description of the extent, data type, ... of an area in a dump.

BLSRDATC mapping

Table 296. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'80'	0	BIT0	"128"
0	(0)	X'40'	0	BIT1	"64"
0	(0)	X'20'	0	BIT2	"32"
0	(0)	X'10'	0	BIT3	"16"
0	(0)	X'8'	0	BIT4	"8"
0	(0)	X'4'	0	BIT5	"4"
0	(0)	X'2'	0	BIT6	"2"
0	(0)	X'1'	0	BIT7	"1"

Table 297. Structure DA31

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DA31	, IPCS attribute descriptor
0	(0)	CHARACTER	1	DA3100(0)	Begin BLSRDATC #MD03007

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Table 297. Structure DA31 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	ADDRESS	4	DA31OF	Offset in bytes
4	(4)	ADDRESS	4	DA31LE	Length in bytes
8	(8)	SIGNED	1	DA31OB	
9	(9)	SIGNED	1	DA31LB	
10	(A)	SIGNED	2	(0)	Align structure on boundary
10	(A)	CHARACTER	34	DA31T(0)	IPCS data type descriptor
10	(A)	CHARACTER	1	DA31T0(0)	Begin BLSRDATT #MD04356
10	(A)	CHARACTER	1	DA31TY(0)	Data type code
10	(A)	ADDRESS	1		Data type code
------- The following data type codes are supported by IPCS -----					
10	(A)	X'C1'	0	ZZZDTYA	"C'A',1,C'C'" Pointer
10	(A)	X'C2'	0	ZZZDTYB	"C'B',1,C'C'" Bit
10	(A)	X'C3'	0	ZZZDTYC	"C'C',1,C'C'" Character
10	(A)	X'C5'	0	ZZZDTYE	"C'E',1,C'C'" Float
10	(A)	X'C6'	0	ZZZDTYF	"C'F',1,C'C'" Signed
10	(A)	X'C9'	0	ZZZDTYI	"C'I',1,C'C'" Instruction
10	(A)	X'D3'	0	ZZZDTYL	"C'L',1,C'C' Module @D1A"
10	(A)	X'D4'	0	ZZZDTYM	"C'M',1,C'C'" Structure
10	(A)	X'D7'	0	ZZZDTYP	"C'P',1,C'C'" Packed
10	(A)	X'E4'	0	ZZZDTYU	"C'U',1,C'C'" Area
10	(A)	X'E8'	0	ZZZDTYY	"C'Y',1,C'C'" Unsigned
10	(A)	X'E9'	0	ZZZDTYZ	"C'Z',1,C'C'" Zoned
11	(B)	BITSTRING	1		
12	(C)	CHARACTER	31	DA31TD	Data name
43	(2B)	CHARACTER	1	DA31TE	reserved
44	(2C)	CHARACTER	1	DA31T9(0)	End BLSRDATT #MD04356
44	(2C)	SIGNED	4	DA31IM	Array entry count
48	(30)	SIGNED	4	DA31IL	Subscript of initial array entry
52	(34)	BITSTRING	4	DA31F	Flags
		1...		DA31FA	"BIT0" Array
56	(38)	BITSTRING	4		
60	(3C)	CHARACTER	1	DA3199(0)	End BLSRDATC #MD03007

Table 298. Cross Reference for BLSRDATC

Name	Offset	Hex Tag
BIT0	0	80
BIT1	0	40
BIT2	0	20
BIT3	0	10
BIT4	0	8
BIT5	0	4
BIT6	0	2
BIT7	0	1
DA31	0	
DA31F	34	0
DA31FA	34	80
DA31IL	30	0
DA31IM	2C	0
DA31LB	9	0

Table 298. Cross Reference for BLSRDATC (continued)

Name	Offset	Hex Tag
DA31LE	4	
DA31OB	8	0
DA31OF	0	
DA31T	A	
DA31TD	C	40404040
DA31TE	2B	40
DA31TY	A	
DA31T0	A	
DA31T9	2C	
DA3100	0	
DA3199	3C	
ZZZDTYA	A	C1
ZZZDTYB	A	C2
ZZZDTYC	A	C3
ZZZDTYE	A	C5
ZZZDTYF	A	C6
ZZZDTYI	A	C9
ZZZDTYL	A	D3
ZZZDTYM	A	D4
ZZZDTYP	A	D7
ZZZDTYU	A	E4
ZZZDTYY	A	E8
ZZZDTYZ	A	E9

Chapter 59. BLSRDATS Information

BLSRDATS Programming Interface Information

BLSRDATS is a programming interface.

BLSRDATS Heading Information

Common Name:	IPCS address space descriptor
Macro ID:	BLSRDATS
DSECT Name:	Specified by the BLSRDATS macro-invocation
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	none
Storage Attributes:	Main Storage: NO Virtual Storage: YES Auxiliary Storage: YES Subpool: 0-127, 251, 252 Key: 0 (not fetch protected), 8 Data Space: NO Residency: LOC(ANY)
Size:	16 bytes
Created by:	IPCS services or their callers
Pointed to by:	N/A
Serialization:	N/A
Function:	Define the structure of the BLSRDATS data area. This is the structure in which IPCS stored address space identification data for dumped storage.

BLSRDATS mapping

Table 299. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

Table 300. Structure DATS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DATS	, IPCS address space descriptor
0	(0)	CHARACTER	1	DATS0(0)	Begin BLSRDATS #MD03009
0	(0)	CHARACTER	2	DATST(0)	Address space type code
0	(0)	ADDRESS	2		Address space type code
0	(0)	X'C140'	0	ZZZASTA	"C'A '" ABSOLUTE
0	(0)	X'C2D3'	0	ZZZASTBL	"C'BL'" BLOCK
0	(0)	X'C2E2'	0	ZZZASTBS	"C'BS'" RBA
0	(0)	X'C2E3'	0	ZZZASTBT	"C'BT'" TTR
0	(0)	X'C340'	0	ZZZASTC	"C'C '" CPU STATUS
0	(0)	X'C3C5'	0	ZZZASTCE	"C'CE'" CPU DOMAIN(VECTOR)
0	(0)	X'C3D9'	0	ZZZASTCR	"C'CR'" CPU REAL
0	(0)	X'C3E3'	0	ZZZASTCT	"C'CT'" CPU DOMAIN(CPUTRACE)

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Table 300. Structure DATS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'C3E5'	0	ZZZASTCV	"C'CV'" CPU ASID
0	(0)	X'C4E2'	0	ZZZASTDS	"C'DS'" ASID DSPNAME
0	(0)	X'C840'	0	ZZZASTH	"C'H '" HEADER
0	(0)	X'D3C9'	0	ZZZASTLI	"C'LI'" LITERAL
0	(0)	X'4040'	0	ZZZASTNO	"C' '" No address space type code
0	(0)	X'E2C2'	0	ZZZASTSB	"C'SB'" DOMAIN(SDUMPBUFFER)
0	(0)	X'E2C3'	0	ZZZASTSC	"C'SC'" COMPDATA
0	(0)	X'E2C4'	0	ZZZASTSD	"C'SD'" DOMAIN(SUMDUMP)
0	(0)	X'E2E2'	0	ZZZASTSS	"C'SS'" ASID DSPNAME SUMDUMP
0	(0)	X'E2E5'	0	ZZZASTSV	"C'SV'" ASID SUMDUMP
2	(2)	BITSTRING	2	DATSH	Reserved
4	(4)	SIGNED	4	DATS1(0)	Integer 1
4	(4)	SIGNED	4		Integer 1
8	(8)	CHARACTER	8	DATSC(0)	Second qualifier
8	(8)	SIGNED	4	DATS2(0)	Integer 2
8	(8)	SIGNED	4		Integer 2
12	(C)	BITSTRING	4	DATS3	Reserved
16	(10)	CHARACTER	1	DATS9(0)	End BLSRDATS #MD03009

Table 301. Cross Reference for BLSRDATS

Name	Offset	Hex Tag
DATS	0	
DATSC	8	
DATSH	2	0
DATST	0	
DATS0	0	
DATS1	4	
DATS2	8	
DATS3	C	0
DATS9	10	
ZZZASTA	0	C140
ZZZASTBL	0	C2D3
ZZZASTBS	0	C2E2
ZZZASTBT	0	C2E3
ZZZASTC	0	C340
ZZZASTCE	0	C3C5
ZZZASTCR	0	C3D9
ZZZASTCT	0	C3E3
ZZZASTCV	0	C3E5
ZZZASTDS	0	C4E2
ZZZASTH	0	C840
ZZZASTLI	0	D3C9
ZZZASTNO	0	4040
ZZZASTSB	0	E2C2
ZZZASTSC	0	E2C3
ZZZASTSD	0	E2C4
ZZZASTSS	0	E2E2
ZZZASTSV	0	E2E5

Chapter 60. BLSRDATT Information

BLSRDATT Programming Interface Information

BLSRDATT is a programming interface.

BLSRDATT Heading Information

Common Name:	IPCS data tupe
Macro ID:	BLSRDATT
DSECT Name:	DATT
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	none
Storage Attributes:	Main Storage: No Virtual Storage: No Auxiliary Storage: Yes Subpool: Any that may be altered by key 8 programs Key: 8 Data Space: No Residency: LOC(ANY,ANY)
Size:	34 bytes
Created by:	IPCS subcommands concerned with debugging
Pointed to by:	Parameter lists used by IPCS programs to describe the type of data residing in a block of storage.
Serialization:	None
Function:	Describe the structure of the BLSRDATT data area. This is the structure in which IPCS stores a data type for data in a dump.

BLSRDATT mapping

Table 302. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

Table 303. Structure DATT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DATT	, IPCS data type descriptor
0	(0)	CHARACTER	1	DATT0(0)	Begin BLSRDATT #MD04356
0	(0)	CHARACTER	1	DATTY(0)	Data type code
0	(0)	ADDRESS	1		Data type code
------- The following data type codes are supported by IPCS -----					
0	(0)	X'C1'	0	ZZZDTYA	"C'A',1,C'C'" Pointer
0	(0)	X'C2'	0	ZZZDTYB	"C'B',1,C'C'" Bit
0	(0)	X'C3'	0	ZZZDTYC	"C'C',1,C'C'" Character
0	(0)	X'C5'	0	ZZZDTYE	"C'E',1,C'C'" Float
0	(0)	X'C6'	0	ZZZDTYF	"C'F',1,C'C'" Signed
0	(0)	X'C9'	0	ZZZDTYI	"C'I',1,C'C'" Instruction

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Table 303. Structure DATT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'D3'	0	ZZZDTYL	"C'L',1,C'C' Module @D1A"
0	(0)	X'D4'	0	ZZZDTYM	"C'M',1,C'C'" Structure
0	(0)	X'D7'	0	ZZZDTYP	"C'P',1,C'C'" Packed
0	(0)	X'E4'	0	ZZZDTYU	"C'U',1,C'C'" Area
0	(0)	X'E8'	0	ZZZDTYY	"C'Y',1,C'C'" Unsigned
0	(0)	X'E9'	0	ZZZDTYZ	"C'Z',1,C'C'" Zoned
1	(1)	BITSTRING	1		
2	(2)	CHARACTER	31	DATTD	Data name
33	(21)	CHARACTER	1	DATTE	reserved
34	(22)	CHARACTER	1	DATT9(0)	End BLSRDATT #MD04356

Table 304. Cross Reference for BLSRDATT

Name	Offset	Hex Tag
DATT	0	
DATTD	2	40404040
DATTE	21	40
DATTY	0	
DATT0	0	
DATT9	22	
ZZZDTYA	0	C1
ZZZDTYB	0	C2
ZZZDTYC	0	C3
ZZZDTYE	0	C5
ZZZDTYF	0	C6
ZZZDTYI	0	C9
ZZZDTYL	0	D3
ZZZDTYM	0	D4
ZZZDTYP	0	D7
ZZZDTYU	0	E4
ZZZDTYY	0	E8
ZZZDTYZ	0	E9

Chapter 61. BLSRDA64 Information

BLSRDA64 Programming Interface Information

BLSRDA64 is a programming interface.

BLSRDA64 Heading Information

Common Name:	IPCS attributes
Macro ID:	BLSRDATC
DSECT Name:	DATC
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	none
Storage Attributes:	Main Storage: No Virtual Storage: No Auxiliary Storage: Yes Subpool: Any that may be altered by key 8 programs Key: 8 Data Space: No Residency: LOC(ANY,ANY)
Size:	ABITS=31: 60 bytes ABITS=64: 76 bytes
Created by:	IPCS subcommands concerned with debugging
Pointed to by:	Parameter lists used by IPCS programs to describe a block of storage in a dump or trace data set or a reconstruction of part of a dumped system.
Serialization:	None
Function:	Define the structure of the BLSRDATC data area. This is the structure in which IPCS stores the description of the extent, data type, ... of an area in a dump.

BLSRDA64 mapping

Table 305. Structure DA64

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DA64	, IPCS attribute descriptor
0	(0)	CHARACTER	1	DA6400(0)	Begin BLSRDATC #MD03007
0	(0)	SIGNED	8	DA64OF(0)	Offset in bytes
0	(0)	ADDRESS	8		Offset in bytes
8	(8)	ADDRESS	8	DA64LE	Length in bytes
16	(10)	SIGNED	1	DA64OB	
17	(11)	SIGNED	1	DA64LB	
18	(12)	SIGNED	2	(0)	Align structure on boundary
18	(12)	CHARACTER	34	DA64T(0)	IPCS data type descriptor
18	(12)	CHARACTER	1	DA64T0(0)	Begin BLSRDATT #MD04356
18	(12)	CHARACTER	1	DA64TY(0)	Data type code
18	(12)	ADDRESS	1		Data type code
------- The following data type codes are supported by IPCS -----					
18	(12)	X'C1'	0	ZZZDTYA	"C'A',1,C'C'" Pointer
18	(12)	X'C2'	0	ZZZDTYB	"C'B',1,C'C'" Bit

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Table 305. Structure DA64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
18	(12)	X'C3'	0	ZZZDTYC	"C'C',1,C'C'" Character
18	(12)	X'C5'	0	ZZZDTYE	"C'E',1,C'C'" Float
18	(12)	X'C6'	0	ZZZDTYF	"C'F',1,C'C'" Signed
18	(12)	X'C9'	0	ZZZDTYI	"C'I',1,C'C'" Instruction
18	(12)	X'D3'	0	ZZZDTYL	"C'L',1,C'C' Module @D1A"
18	(12)	X'D4'	0	ZZZDTYM	"C'M',1,C'C'" Structure
18	(12)	X'D7'	0	ZZZDTYP	"C'P',1,C'C'" Packed
18	(12)	X'E4'	0	ZZZDTYU	"C'U',1,C'C'" Area
18	(12)	X'E8'	0	ZZZDTYY	"C'Y',1,C'C'" Unsigned
18	(12)	X'E9'	0	ZZZDTYZ	"C'Z',1,C'C'" Zoned
19	(13)	BITSTRING	1		
20	(14)	CHARACTER	31	DA64TD	Data name
51	(33)	CHARACTER	1	DA64TE	reserved
52	(34)	CHARACTER	1	DA64T9(0)	End BLSRDATT #MD04356
52	(34)	BITSTRING	8	DA64IM	Array entry count
60	(3C)	BITSTRING	8	DA64IL	Subscript of initial array entry
68	(44)	BITSTRING	4	DA64F	Flags
		1...		DA64FA	"BIT0" Array
72	(48)	BITSTRING	4		
76	(4C)	CHARACTER	1	DA6499(0)	End BLSRDATC #MD03007

Table 306. Cross Reference for BLSRDA64

Name	Offset	Hex Tag
DA64	0	
DA64F	44	0
DA64FA	44	80
DA64IL	3C	0
DA64IM	34	0
DA64LB	11	0
DA64LE	8	
DA64OB	10	0
DA64OF	0	
DA64T	12	
DA64TD	14	40404040
DA64TE	33	40
DA64TY	12	
DA64T0	12	
DA64T9	34	
DA6400	0	
DA6499	4C	
ZZZDTYA	12	C1
ZZZDTYB	12	C2
ZZZDTYC	12	C3
ZZZDTYE	12	C5
ZZZDTYF	12	C6
ZZZDTYI	12	C9
ZZZDTYL	12	D3
ZZZDTYM	12	D4
ZZZDTYP	12	D7

Table 306. Cross Reference for BLSRDA64 (continued)

Name	Offset	Hex Tag
ZZZDTYU	12	E4
ZZZDTYY	12	E8
ZZZDTYZ	12	E9

Chapter 62. BLSRDRPX Information

BLSRDRPX Programming Interface Information

BLSRDRPX is a programming interface.

BLSRDRPX Heading Information

Common Name:	Unformatted dump record prefix
Macro ID:	BLSRDRPX
DSECT Name:	DRPX or any name used as macro label
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	DR Offset: 0 Length: 2
Storage Attributes:	Main Storage: N/A Virtual Storage: N/A Auxiliary Storage: N/A Subpool: N/A Key: N/A Data Space: N/A Residency: N/A
Size:	64 bytes
Created by:	Dumping services
Pointed to by:	N/A
Serialization:	None
Function:	Maps the first 64 bytes of every record in an unformatted stand alone dump or virtual dump.

BLSRDRPX mapping

Table 307. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'80'	0	BIT0	"128"
0	(0)	X'40'	0	BIT1	"64"
0	(0)	X'20'	0	BIT2	"32"
0	(0)	X'10'	0	BIT3	"16"
0	(0)	X'8'	0	BIT4	"8"
0	(0)	X'4'	0	BIT5	"4"
0	(0)	X'2'	0	BIT6	"2"
0	(0)	X'1'	0	BIT7	"1"
0	(0)	X'40'	0	DR31SIZ	"64" Length of dump record prefix

Table 308. Structure DR31

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DR31	, Dump prefix

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Table 308. Structure DR31 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Dump record prefix #MD07340					
0	(0)	CHARACTER	3	DR31ID(0)	Dump record prefix identifier
0	(0)	CHARACTER	2	DR31IDC	Dump record prefix eye-catcher
0	(0)	X'C4D9'	0	DR31IDCV	"C'DR',2,C'C'" Dump record prefix eye-catcher
2	(2)	CHARACTER	1	DR31IDV	Dump record prefix version
2	(2)	X'F1'	0	DR31IDV31	"C'1',1,C'C'" 31-bit support levels
2	(2)	X'F2'	0	DR31IDV64	"C'2',1,C'C'" 64-bit support levels
3	(3)	ADDRESS	1	DR31LEN	Dump record prefix length
An IPCS address space is specified by three values: (1) A two-character code identifying the type of address space: - Letter code A indicates that the file contains an MVS high-speed dump and that absolute main storage of the dumped system is being referenced (ABSOLUTE) - Code BL indicates that a physical block in a file is being referenced using a relative block number (BLOCK) - Code BS indicates that a relative byte address group in the file is being referenced (RBA) - Code BT indicates that a physical block in a file is being referenced using a relative track address (TTR) - Letter code C indicates that the file contains an MVS high-speed dump and that the CPU status data for one dumped CPU is being referenced (CPU STATUS) - Code CE indicates that the file contains an MVS high-speed dump and that vector registers for one CPU are being referenced (CPU DOMAIN(VECTOR)) - Code CR indicates that the file contains an MVS high-speed dump and that real main storage seen by one CPU is being referenced (CPU REAL) - Code CT indicates that the file contains an MVS high-speed dump and that a console loop trace for one CPU is being referenced (CPU DOMAIN(CPUTRACE)) - Code CV indicates that the file contains an MVS high-speed dump and that virtual main storage seen by one MVS address space dispatched on a designated CPU is being referenced (CPU ASID) - Code DS indicates that the file contains an MVS high-speed dump and that a data space is being referenced (ASID DSPNAME) - Letter code H indicates that the file contains an MVS					

Table 308. Structure DR31 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		high-speed dump and that the header data for the dump is being referenced (HEADER) - Code LI refers to a literal value associated with a symbol (LITERAL) - Code SB indicates that the file contains an MVS high-speed dump and that the SDUMP 4K buffer is being referenced (DOMAIN(SDUMPBUFFER)) - Code SC indicates that the file contains an MVS high-speed dump and that component data is being referenced (COMPDATA) - Code SD indicates that the file contains an MVS high-speed dump and that the SDUMP summary dump records are being referenced (DOMAIN(SUMDUMP)) - Code SS indicates that the file contains an MVS high-speed dump and that the portion of a data space represented in summary dump records is being referenced (ASID DSPNAME SUMDUMP) - Code SV indicates that the file contains an MVS high-speed dump and that the portion of one MVS address space represented in summary dump records is being referenced (ASID SUMDUMP) (2) A binary integer whose interpretation depends on the preceding code: - For code BL this integer should be the relative block number - For code BS this integer should be the relative byte address group number - For code BT this integer should be the relative track address - For codes DS and SS this integer contains the address space identification (ASID) for the address space that owns the referenced data space. - For code LI this integer is an arbitrary number that IPCS associates with the symbolic literal. Zero is used for literals when no storage is available. - For codes beginning with the letter C this integer contains the System/370 CPU address (STAP instruction) for the referenced			
		CPU or X'FFFFFFFF'. - For other codes this integer has no meaning and should be set to X'FFFFFFFF'. (3) A doubleword whose interpretation depends on the preceding code: - For code A the first fullword contains zero normally. A non-zero associated ASID may appear in the first fullword in the dump header of records written by SADUMP. The second fullword contains binary zeroes in all cases. - For codes CV and SV the first fullword is interpreted as a binary integer that contains the address space identification (ASID) for the referenced address space, and the second fullword contains binary zeroes. - For codes DS and SS the doubleword is interpreted as the DSPNAME for the referenced data space. - For code SC the doubleword is interpreted as a component identifier. - For other codes this doubleword has no meaning and should be set to zero.			
4	(4)	SIGNED	4	(0)	Align on word boundary
4	(4)	CHARACTER	16	DR31AS(0)	IPCS address space descriptor
4	(4)	CHARACTER	1	DR31AS0(0)	Begin BLSRDATS #MD03009
4	(4)	CHARACTER	2	DR31AST(0)	Address space type code
4	(4)	ADDRESS	2		Address space type code
4	(4)	X'C140'	0	ZZZASTA	"C'A '" ABSOLUTE
4	(4)	X'C2D3'	0	ZZZASTBL	"C'BL'" BLOCK
4	(4)	X'C2E2'	0	ZZZASTBS	"C'BS'" RBA

Table 308. Structure DR31 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'C2E3'	0	ZZZASTBT	"C'BT'" TTR
4	(4)	X'C340'	0	ZZZASTC	"C'C '" CPU STATUS
4	(4)	X'C3C5'	0	ZZZASTCE	"C'CE'" CPU DOMAIN(VECTOR)
4	(4)	X'C3D9'	0	ZZZASTCR	"C'CR'" CPU REAL
4	(4)	X'C3E3'	0	ZZZASTCT	"C'CT'" CPU DOMAIN(CPUTRACE)
4	(4)	X'C3E5'	0	ZZZASTCV	"C'CV'" CPU ASID
4	(4)	X'C4E2'	0	ZZZASTDS	"C'DS'" ASID DSPNAME
4	(4)	X'C840'	0	ZZZASTH	"C'H '" HEADER
4	(4)	X'D3C9'	0	ZZZASTLI	"C'LI'" LITERAL
4	(4)	X'4040'	0	ZZZASTNO	"C' '" No address space type code
4	(4)	X'E2C2'	0	ZZZASTSB	"C'SB'" DOMAIN(SDUMPBUFFER)
4	(4)	X'E2C3'	0	ZZZASTSC	"C'SC'" COMPDATA
4	(4)	X'E2C4'	0	ZZZASTSD	"C'SD'" DOMAIN(SUMDUMP)
4	(4)	X'E2E2'	0	ZZZASTSS	"C'SS'" ASID DSPNAME SUMDUMP
4	(4)	X'E2E5'	0	ZZZASTSV	"C'SV'" ASID SUMDUMP
6	(6)	BITSTRING	2	DR31ASH	Reserved
8	(8)	SIGNED	4	DR31AS1(0)	Integer 1
8	(8)	SIGNED	4		Integer 1
12	(C)	CHARACTER	8	DR31ASC(0)	Second qualifier
12	(C)	SIGNED	4	DR31AS2(0)	Integer 2
12	(C)	SIGNED	4		Integer 2
16	(10)	BITSTRING	4	DR31AS3	Reserved
20	(14)	CHARACTER	1	DR31AS9(0)	End BLSRDATS #MD03009
20	(14)	ADDRESS	4	DR31LAD	Logical address
24	(18)	SIGNED	4	DR31SEQ	Sequence number used to prevent dumps from merging
28	(1C)	SIGNED	4	(2)	Reserved for data common to all types of dump records
36	(24)	BITSTRING	28	DR31TYPD	Record type specific data
64	(40)	CHARACTER	1	DR31999(0)	End BLSRDRPX #MD07340
Store Status Record (type C) Data					
36	(24)	BITSTRING	1	DR31FLAGS	Store status flags
		1...		DR31SSINV	"BIT0" Store status may be invalid
		.1..		DR31SIGPF	"BIT1" SIGP Stop and Store Status failed. The GPR designated by the R1 field of the SIGP instruction is stored at offset X'110' (PRDSIGPS) of the CPU status record.
		..1.		DR31GPRVL	"BIT2" GPRs valid despite invalid Store Status.
		...1		DR31BFP	"BIT3" OS/390 R6 or later - BFP support
		.... 1...		DR31BFPV	"BIT4" FPRs valid in extended status
		.... .1..		DR31BFPH	"BIT5" Not used
		.... ..1.		DR31Z1V	"BIT6"
		1		DR31ZARCH	"BIT7" Status in z/Architecture format

Table 308. Structure DR31 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		DR31ESAME	"BIT7" Status in z/Architecture format
37	(25)	BITSTRING	27		Reserved
Dump Header Record (type H) Data					
36	(24)	BITSTRING	1	DR31DUMPT	Dump type
36	(24)	X'1'	0	DR31SADP	"1" Stand alone dump
36	(24)	X'2'	0	DR31SVCDP	"2" SVC dump
36	(24)	X'3'	0	DR31SMDP	"3" SYSMDUMP
36	(24)	X'4'	0	DR31SLPDP	"4" SLIP dump
36	(24)	X'5'	0	DR31BLSDP	"5" IPCS active
37	(25)	BITSTRING	27		Reserved
Storage Record (types A, CV, DS, SS, SV) Data					
36	(24)	BITSTRING	1	DR31KEY	Storage key for page
		1111 1111		DR31KEYQ	"X'FF'" Storage key not known
		1111		DR31KEYA	"BIT0+BIT1+BIT2+BIT3" Access-control code
		.... 1...		DR31KEYF	"BIT4" Fetch-protection indicator
		.... .11.		DR31KEYU	"BIT5+BIT6" Page usage indicators
		.... .1..		DR31KEYR	"BIT5" Page referenced
		.... ..1.		DR31KEYC	"BIT6" Page changed
37	(25)	BITSTRING	5		Reserved for common fields
42	(2A)	BITSTRING	22	DR31TYPS	Record type specific data
Data Space Storage Record (type DS, SS) Data.					
42	(2A)	SIGNED	2		Reserved
The following supplements the ASID and Data Space information.					
44	(2C)	ADDRESS	4	DR31ASTE	Absolute address of ASTE
48	(30)	BITSTRING	8	DR31STOKN	STOKEN
56	(38)	BITSTRING	8		Reserved
Storage Record (types CV, SV and SC) data. Note: The only COMPDATA record for which this information is regarded as present is COMPDATA(IARHVSHR) at this time.					
42	(2A)	BITSTRING	1	DR31STYP	System area type
		1...		DR31COMM	"BIT0" Common area
		.1..		DR31AAF	"BIT1" Absolute address given
		..1.		DR31SHARE	"BIT2" Shared
43	(2B)	BITSTRING	1		Reserved
44	(2C)	ADDRESS	4	DR31AAP	Absolute address
48	(30)	BITSTRING	16		Reserved

Table 309. Cross Reference for BLSRDRPX

Name	Offset	Hex Tag
BIT0	0	80
BIT1	0	40
BIT2	0	20
BIT3	0	10

Table 309. Cross Reference for BLSRDRPX (continued)

Name	Offset	Hex Tag
BIT4	0	8
BIT5	0	4
BIT6	0	2
BIT7	0	1
DR31	0	
DR31AAF	2A	40
DR31AAP	2C	
DR31AS	4	
DR31ASC	C	
DR31ASH	6	0
DR31AST	4	
DR31ASTE	2C	
DR31AS0	4	
DR31AS1	8	
DR31AS2	C	
DR31AS3	10	0
DR31AS9	14	
DR31BFP	24	10
DR31BFPH	24	4
DR31BFPV	24	8
DR31BLSDP	24	5
DR31COMM	2A	80
DR31DUMPT	24	
DR31ESAME	24	1
DR31FLAGS	24	
DR31GPRVL	24	20
DR31ID	0	
DR31IDC	0	C4D9
DR31IDCV	0	C4D9
DR31IDV	2	F1
DR31IDV31	2	F1
DR31IDV64	2	F2
DR31KEY	24	
DR31KEYA	24	F0
DR31KEYC	24	2
DR31KEYF	24	8
DR31KEYQ	24	FF
DR31KEYR	24	4
DR31KEYU	24	6
DR31LAD	14	
DR31LEN	3	
DR31SADP	24	1
DR31SEQ	18	0
DR31SHARE	2A	20
DR31SIGPF	24	40
DR31SIZ	0	40
DR31SLPDP	24	4
DR31SMDP	24	3
DR31SSINV	24	80

Table 309. Cross Reference for BLSRDRPX (continued)

Name	Offset	Hex Tag
DR31STOKN	30	
DR31STYP	2A	
DR31SVCDP	24	2
DR31TYPD	24	0
DR31TYPS	2A	
DR31ZARCH	24	1
DR31Z1V	24	2
DR31999	40	
ZZZASTA	4	C140
ZZZASTBL	4	C2D3
ZZZASTBS	4	C2E2
ZZZASTBT	4	C2E3
ZZZASTC	4	C340
ZZZASTCE	4	C3C5
ZZZASTCR	4	C3D9
ZZZASTCT	4	C3E3
ZZZASTCV	4	C3E5
ZZZASTDS	4	C4E2
ZZZASTH	4	C840
ZZZASTLI	4	D3C9
ZZZASTNO	4	4040
ZZZASTSB	4	E2C2
ZZZASTSC	4	E2C3
ZZZASTSD	4	E2C4
ZZZASTSS	4	E2E2
ZZZASTSV	4	E2E5

Chapter 63. BLSRDR64 Information

BLSRDR64 Programming Interface Information

BLSRDR64 is a programming interface.

BLSRDR64 Heading Information

Common Name:	Unformatted dump record prefix
Macro ID:	BLSRDRPX
DSECT Name:	DRPX or any name used as macro label
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	DR Offset: 0 Length: 2
Storage Attributes:	Main Storage: N/A Virtual Storage: N/A Auxiliary Storage: N/A Subpool: N/A Key: N/A Data Space: N/A Residency: N/A
Size:	64 bytes
Created by:	Dumping services
Pointed to by:	N/A
Serialization:	None
Function:	Maps the first 64 bytes of every record in an unformatted stand alone dump or virtual dump.

BLSRDR64 mapping

Table 310. Structure DR64

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DR64	, Dump prefix
Dump record prefix #MD07340					
0	(0)	CHARACTER	3	DR64ID(0)	Dump record prefix identifier
0	(0)	CHARACTER	2	DR64IDC	Dump record prefix eye-catcher
0	(0)	X'C4D9'	0	DR64IDCV	"C'DR',2,C'C'" Dump record prefix eye-catcher
2	(2)	CHARACTER	1	DR64IDV	Dump record prefix version
2	(2)	X'F1'	0	DR64IDV31	"C'1',1,C'C'" 31-bit support levels
2	(2)	X'F2'	0	DR64IDV64	"C'2',1,C'C'" 64-bit support levels
3	(3)	ADDRESS	1	DR64LEN	Dump record prefix length

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Table 310. Structure DR64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					An IPCS address space is specified by three values: (1) A two-character code identifying the type of address space: - Letter code A indicates that the file contains an MVS high-speed dump and that absolute main storage of the dumped system is being referenced (ABSOLUTE) - Code BL indicates that a physical block in a file is being referenced using a relative block number (BLOCK) - Code BS indicates that a relative byte address group in the file is being referenced (RBA) - Code BT indicates that a physical block in a file is being referenced using a relative track address (TTR) - Letter code C indicates that the file contains an MVS high-speed dump and that the CPU status data for one dumped CPU is being referenced (CPU STATUS) - Code CE indicates that the file contains an MVS high-speed dump and that vector registers for one CPU are being referenced (CPU DOMAIN(VECTOR)) - Code CR indicates that the file contains an MVS high-speed dump and that real main storage seen by one CPU is being referenced (CPU REAL) - Code CT indicates that the file contains an MVS high-speed dump and that a console loop trace for one CPU is being referenced (CPU DOMAIN(CPUTRACE)) - Code CV indicates that the file contains an MVS high-speed dump and that virtual main storage seen by one MVS address space dispatched on a designated CPU is being referenced (CPU ASID) - Code DS indicates that the file contains an MVS high-speed dump and that a data space is being referenced (ASID DSPNAME) - Letter code H indicates that the file contains an MVS high-speed dump and that the header data for the dump is being referenced (HEADER) - Code LI refers to a literal value associated with a symbol (LITERAL) - Code SB indicates that the file contains an MVS high-speed dump and that the SDUMP 4K buffer is being referenced (DOMAIN(SDUMPBUFFER)) - Code SC indicates that the file contains an MVS high-speed dump and that component data is being referenced (COMPDATA) - Code SD indicates that the file contains an MVS high-speed dump and that the SDUMP summary dump records are being referenced (DOMAIN(SUMDUMP)) - Code SS indicates that the file contains an MVS high-speed dump and that the portion of a data space represented in summary dump records is being referenced (ASID DSPNAME SUMDUMP) - Code SV indicates that the file contains an MVS high-speed dump and that the portion of one MVS address space represented in summary dump records is being referenced (ASID SUMDUMP) (2) A binary integer whose interpretation depends on the preceding code: - For code BL this integer should be the relative block number - For code BS this integer should be the relative byte address group number - For code BT this integer should be the relative track address - For codes DS and SS this integer contains the address space identification (ASID) for the address space that owns the referenced data space. - For code LI this integer is an arbitrary number that IPCS associates with the symbolic literal. Zero is used for literals when no storage is available. - For codes beginning with the letter C this integer contains the System/370 CPU address (STAP instruction) for the referenced

Table 310. Structure DR64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		CPU or X'FFFFFFFF'. - For other codes this integer has no meaning and should be set to X'FFFFFFFF'. (3) A doubleword whose interpretation depends on the preceding code: - For code A the first fullword contains zero normally. A non-zero associated ASID may appear in the first fullword in the dump header of records written by SADUMP. The second fullword contains binary zeroes in all cases. - For codes CV and SV the first fullword is interpreted as a binary integer that contains the address space identification (ASID) for the referenced address space, and the second fullword contains binary zeroes. - For codes DS and SS the doubleword is interpreted as the DSPNAME for the referenced data space. - For code SC the doubleword is interpreted as a component identifier. - For other codes this doubleword has no meaning and should be set to zero.			
4	(4) SIGNED	4	(0)	Align on word boundary
4	(4) CHARACTER	16	DR64AS(0)	IPCS address space descriptor
4	(4) CHARACTER	1	DR64AS0(0)	Begin BLSRDATS #MD03009
4	(4) CHARACTER	2	DR64AST(0)	Address space type code
4	(4) ADDRESS	2		Address space type code
4	(4) X'C140'	0	ZZZASTA	"C'A '" ABSOLUTE
4	(4) X'C2D3'	0	ZZZASTBL	"C'BL'" BLOCK
4	(4) X'C2E2'	0	ZZZASTBS	"C'BS'" RBA
4	(4) X'C2E3'	0	ZZZASTBT	"C'BT'" TTR
4	(4) X'C340'	0	ZZZASTC	"C'C '" CPU STATUS
4	(4) X'C3C5'	0	ZZZASTCE	"C'CE'" CPU DOMAIN(VECTOR)
4	(4) X'C3D9'	0	ZZZASTCR	"C'CR'" CPU REAL
4	(4) X'C3E3'	0	ZZZASTCT	"C'CT'" CPU DOMAIN(CPUTRACE)
4	(4) X'C3E5'	0	ZZZASTCV	"C'CV'" CPU ASID
4	(4) X'C4E2'	0	ZZZASTDS	"C'DS'" ASID DSPNAME
4	(4) X'C840'	0	ZZZASTH	"C'H '" HEADER
4	(4) X'D3C9'	0	ZZZASTLI	"C'LI'" LITERAL
4	(4) X'4040'	0	ZZZASTNO	"C' '" No address space type code
4	(4) X'E2C2'	0	ZZZASTSB	"C'SB'" DOMAIN(SDUMPBUFFER)
4	(4) X'E2C3'	0	ZZZASTSC	"C'SC'" COMPDATA
4	(4) X'E2C4'	0	ZZZASTSD	"C'SD'" DOMAIN(SUMDUMP)
4	(4) X'E2E2'	0	ZZZASTSS	"C'SS'" ASID DSPNAME SUMDUMP
4	(4) X'E2E5'	0	ZZZASTSV	"C'SV'" ASID SUMDUMP
6	(6) BITSTRING	2	DR64ASH	Reserved
8	(8) SIGNED	4	DR64AS1(0)	Integer 1
8	(8) SIGNED	4		Integer 1
12	(C) CHARACTER	8	DR64ASC(0)	Second qualifier
12	(C) SIGNED	4	DR64AS2(0)	Integer 2
12	(C) SIGNED	4		Integer 2
16	(10) BITSTRING	4	DR64AS3	Reserved
20	(14) CHARACTER	1	DR64AS9(0)	End BLSRDATS #MD03009
20	(14) BITSTRING	8	DR64LAD	Logical address
28	(1C) SIGNED	4	DR64SEQ	Sequence number used to prevent dumps from merging

Table 310. Structure DR64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	BITSTRING	2		Reserved for data common to all types of dump records
34	(22)	ADDRESS	1	DR64MSN	Merge sequence number
35	(23)	ADDRESS	1	DR64PHASE	Phase of dumping program
35	(23)	X'0'	0	DR64PHASE0	"0" No phase recorded
35	(23)	X'1'	0	DR64PHASESADMPA	"1" SADMP early real data collection
35	(23)	X'2'	0	DR64PHASESADMPB	"2" SADMP virtual data collection
35	(23)	X'3'	0	DR64PHASESADMPC	"3" SADMP added real data collection
35	(23)	X'4'	0	DR64PHASESADMPPFT	"4" SADMP - PFT
35	(23)	X'5'	0	DR64PHASESADMPMINI	"5" SADMP - Minimal ASID real
35	(23)	X'6'	0	DR64PHASESADMPSUMI	"6" SADMP - Summary ASID real
35	(23)	X'7'	0	DR64PHASESADMPIN	"7" SADMP - Swapped-in ASID real
35	(23)	X'8'	0	DR64PHASESADMPUSED	"8" SADMP - In-use real
35	(23)	X'9'	0	DR64PHASESADMPMINO	"9" SADMP - Minimal ASID virtual
35	(23)	X'A'	0	DR64PHASESADMPSUMO	"10" SADMP - Summary ASID virtual
35	(23)	X'B'	0	DR64PHASESADMPPAGED	"11" SADMP - Swapped-in ASID virtual
35	(23)	X'C'	0	DR64PHASESADMPSWAP	"12" SADMP - Swapped-out ASID virtual
35	(23)	X'D'	0	DR64PHASESADMPRSRV	"13" SADMP - Available real
35	(23)	X'FF'	0	DR64MAXMSN	"255" Maximum DrpxMSN
36	(24)	BITSTRING	28	DR64TYPD	Record type specific data
64	(40)	CHARACTER	1	DR64999(0)	End BLSRDRPX #MD07340
Store Status Record (type C) Data					
36	(24)	BITSTRING	1	DR64FLAGS	Store status flags
		1...		DR64SSINV	"BIT0" Store status may be invalid
		.1..		DR64SIGPF	"BIT1" SIGP Stop and Store Status failed. The GPR designated by the R1 field of the SIGP instruction is stored at offset X'110' (PRDSIGPS) of the CPU status record.
		..1.		DR64GPRVL	"BIT2" GPRs valid despite invalid Store Status.
		...1		DR64BFP	"BIT3" OS/390 R6 or later - BFP support
		.... 1...		DR64BFPV	"BIT4" FPRs valid in extended status
		.... .1..		DR64BFPH	"BIT5" Not used
		.... ..1.		DR64Z1V	"BIT6"
		1		DR64ZARCH	"BIT7" Status in z/Architecture format
		1		DR64ESAME	"BIT7" Status in z/Architecture format
37	(25)	BITSTRING	27		Reserved
Dump Header Record (type H) Data					
36	(24)	BITSTRING	1	DR64DUMPT	Dump type

Table 310. Structure DR64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	X'1'	0	DR64SADP	"1" Stand alone dump
36	(24)	X'2'	0	DR64SVCDP	"2" SVC dump
36	(24)	X'3'	0	DR64SMDP	"3" SYSMDUMP
36	(24)	X'4'	0	DR64SLPDP	"4" SLIP dump
36	(24)	X'5'	0	DR64BLSDP	"5" IPCS active
37	(25)	BITSTRING	27		Reserved
Storage Record (types A, CV, DS, SS, SV) Data					
36	(24)	BITSTRING	1	DR64KEY	Storage key for page
		1111 1111		DR64KEYQ	"X'FF'" Storage key not known
		1111		DR64KEYA	"BIT0+BIT1+BIT2+BIT3" Access-control code
		.... 1...		DR64KEYF	"BIT4" Fetch-protection indicator
		.... .11.		DR64KEYU	"BIT5+BIT6" Page usage indicators
		.... .1..		DR64KEYR	"BIT5" Page referenced
		.... ..1.		DR64KEYC	"BIT6" Page changed
37	(25)	BITSTRING	5		Reserved for common fields
42	(2A)	BITSTRING	22	DR64TYPS	Record type specific data
Data Space Storage Record (type DS, SS) Data.					
42	(2A)	SIGNED	2		Reserved
44	(2C)	BITSTRING	20		Reserved
Storage Record (types CV, SV and SC) data. Note: The only COMPDATA record for which this information is regarded as present is COMPDATA(IARHVSHR) at this time.					
42	(2A)	BITSTRING	1	DR64STYP	System area type
		1...		DR64COMM	"BIT0" Common area
		.1..		DR64AAF	"BIT1" Absolute address given
		..1.		DR64SHARE	"BIT2" Shared
43	(2B)	BITSTRING	1		Reserved
44	(2C)	BITSTRING	8	DR64AAP	Absolute address
52	(34)	BITSTRING	12		Reserved

Table 311. Cross Reference for BLSRDR64

Name	Offset	Hex Tag
DR64	0	
DR64AAF	2A	40
DR64AAP	2C	
DR64AS	4	
DR64ASC	C	
DR64ASH	6	0
DR64AST	4	
DR64AS0	4	
DR64AS1	8	
DR64AS2	C	
DR64AS3	10	0

Table 311. Cross Reference for BLSRDR64 (continued)

Name	Offset	Hex Tag
DR64AS9	14	
DR64BFP	24	10
DR64BFPH	24	4
DR64BFPV	24	8
DR64BLSDP	24	5
DR64COMM	2A	80
DR64DUMPT	24	
DR64ESAME	24	1
DR64FLAGS	24	
DR64GPRVL	24	20
DR64ID	0	
DR64IDC	0	C4D9
DR64IDCV	0	C4D9
DR64IDV	2	F2
DR64IDV31	2	F1
DR64IDV64	2	F2
DR64KEY	24	
DR64KEYA	24	F0
DR64KEYC	24	2
DR64KEYF	24	8
DR64KEYQ	24	FF
DR64KEYR	24	4
DR64KEYU	24	6
DR64LAD	14	0
DR64LEN	3	
DR64MAXMSN	23	FF
DR64MSN	22	
DR64PHASE	23	
DR64PHASESADMPA	23	1
DR64PHASESADMPB	23	2
DR64PHASESADMPC	23	3
DR64PHASESADMPIN	23	7
DR64PHASESADMPMINI	23	5
DR64PHASESADMPMINO	23	9
DR64PHASESADMPPAGED	23	B
DR64PHASESADMPPFT	23	4
DR64PHASESADMPRSRV	23	D
DR64PHASESADMPSUMI	23	6
DR64PHASESADMPSUMO	23	A
DR64PHASESADMPSWAP	23	C
DR64PHASESADMPUSED	23	8
DR64PHASE0	23	0
DR64SADP	24	1
DR64SEQ	1C	0
DR64SHARE	2A	20
DR64SIGPF	24	40
DR64SLPDP	24	4
DR64SMDP	24	3
DR64SSINV	24	80

Table 311. Cross Reference for BLSRDR64 (continued)

Name	Offset	Hex Tag
DR64STYP	2A	
DR64SVCDP	24	2
DR64TYPD	24	0
DR64TYPS	2A	
DR64ZARCH	24	1
DR64Z1V	24	2
DR64999	40	
ZZZASTA	4	C140
ZZZASTBL	4	C2D3
ZZZASTBS	4	C2E2
ZZZASTBT	4	C2E3
ZZZASTC	4	C340
ZZZASTCE	4	C3C5
ZZZASTCR	4	C3D9
ZZZASTCT	4	C3E3
ZZZASTCV	4	C3E5
ZZZASTDS	4	C4E2
ZZZASTH	4	C840
ZZZASTLI	4	D3C9
ZZZASTNO	4	4040
ZZZASTSB	4	E2C2
ZZZASTSC	4	E2C3
ZZZASTSD	4	E2C4
ZZZASTSS	4	E2E2
ZZZASTSV	4	E2E5

Chapter 64. BLSRESSY Information

BLSRESSY Programming Interface Information

BLSRESSY is a programming interface.

BLSRESSY Heading Information

Common Name:	IPCS Symbol Table Record
Macro ID:	BLSRESSY
DSECT Name:	ESSY
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	ES Offset: 0 Length: 2
Storage Attributes:	Main Storage: No Virtual Storage: No Auxiliary Storage: Yes Subpool: Any that may be altered by key 8 programs Key: 8 Data Space: No Residency: LOC(ANY,ANY)
Size:	ABITS=31: 182 bytes + a remark containing 0-512 bytes of text ABITS=64: 210 bytes + a remark containing 0-512 bytes of text
Created by:	IPCS subcommands concerned with debugging
Pointed to by:	Parameter lists used by IPCS programs to describe a block of storage in a dump or trace data set or a reconstruction of part of a dumped system.
Serialization:	None
Function:	Each dump directory equate symbol record records the association between a symbol, e.g., CVT, ASCB00001, ..., and the location and properties of a block of storage. IPCS modules also use this structure as a parameter to communicate the location of a block of storage.

BLSRESSY mapping

Table 312. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'80'	0	BIT0	"128"
0	(0)	X'40'	0	BIT1	"64"
0	(0)	X'20'	0	BIT2	"32"
0	(0)	X'10'	0	BIT3	"16"
0	(0)	X'8'	0	BIT4	"8"
0	(0)	X'4'	0	BIT5	"4"
0	(0)	X'2'	0	BIT6	"2"
0	(0)	X'1'	0	BIT7	"1"

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Table 313. Structure ES31

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ES31	, IPCS Equate Symbol Record
0	(0)	CHARACTER	1	ES31000(0)	Begin BLSRESSY #MD07340
0	(0)	CHARACTER	2	ES31RID	Record type==>ES
2	(2)	BITSTRING	6		
8	(8)	CHARACTER	8		
16	(10)	BITSTRING	8		
An Equate Symbol record defines one symbol, associating it with a contiguous block of storage in an address space.					
24	(18)	SIGNED	4	ES31RDX	Data set index
28	(1C)	CHARACTER	31	ES31SYM	Equated symbol
59	(3B)	CHARACTER	1	ES31ELK(0)	End of logical key
59	(3B)	X'3B'	0	ES31LKL	"ES31ELK-ES31000" Logical key length
59	(3B)	CHARACTER	1	ES31RST	BLSRESSY subtype - ABITS=31
59	(3B)	X'40'	0	ES31RST31	"C' '" BLSRESSY subtype - ABITS=31
59	(3B)	X'F2'	0	ES31RST64	"C'2'" BLSRESSY subtype - ABITS=64
An IPCS address space is specified by three values: (1) A two-character code identifying the type of address space: - Letter code A indicates that the file contains an MVS high-speed dump and that absolute main storage of the dumped system is being referenced (ABSOLUTE) - Code BL indicates that a physical block in a file is being referenced using a relative block number (BLOCK) - Code BS indicates that a relative byte address group in the file is being referenced (RBA) - Code BT indicates that a physical block in a file is being referenced using a relative track address (TTR) - Letter code C indicates that the file contains an MVS high-speed dump and that the CPU status data for one dumped CPU is being referenced (CPU STATUS) - Code CE indicates that the file contains an MVS high-speed dump and that vector registers for one CPU are being referenced (CPU DOMAIN(VECTOR)) - Code CR indicates that the file contains an MVS high-speed dump and that real main storage seen by one CPU is being referenced (CPU REAL) - Code CT indicates that the file contains an MVS high-speed dump and that a console loop trace for one CPU is being referenced (CPU DOMAIN(CPUTRACE)) - Code CV indicates that the file contains an MVS high-speed dump and that virtual main storage seen by one MVS address space dispatched on a designated CPU is being referenced (CPU ASID) - Code DS indicates that the file contains an MVS high-speed dump and that a data space is being referenced (ASID DSPNAME) - Letter code H indicates that the file contains an MVS					

Table 313. Structure ES31 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		high-speed dump and that the header data for the dump is being referenced (HEADER) - Code LI refers to a literal value associated with a symbol (LITERAL) - Code SB indicates that the file contains an MVS high-speed dump and that the SDUMP 4K buffer is being referenced (DOMAIN(SDUMPBUFFER)) - Code SC indicates that the file contains an MVS high-speed dump and that component data is being referenced (COMPDATA) - Code SD indicates that the file contains an MVS high-speed dump and that the SDUMP summary dump records are being referenced (DOMAIN(SUMDUMP)) - Code SS indicates that the file contains an MVS high-speed dump and that the portion of a data space represented in summary dump records is being referenced (ASID DSPNAME SUMDUMP) - Code SV indicates that the file contains an MVS high-speed dump and that the portion of one MVS address space represented in summary dump records is being referenced (ASID SUMDUMP) (2) A binary integer whose interpretation depends on the preceding code: - For code BL this integer should be the relative block number - For code BS this integer should be the relative byte address group number - For code BT this integer should be the relative track address - For codes DS and SS this integer contains the address space identification (ASID) for the address space that owns the referenced data space. - For code LI this integer is an arbitrary number that IPCS associates with the symbolic literal. Zero is used for literals when no storage is available. - For codes beginning with the letter C this integer contains the System/370 CPU address (STAP instruction) for the referenced			
		CPU or X'FFFFFFFF'. - For other codes this integer has no meaning and should be set to X'FFFFFFFF'. (3) A doubleword whose interpretation depends on the preceding code: - For code A the first fullword contains zero normally. A non-zero associated ASID may appear in the first fullword in the dump header of records written by SADUMP. The second fullword contains binary zeroes in all cases. - For codes CV and SV the first fullword is interpreted as a binary integer that contains the address space identification (ASID) for the referenced address space, and the second fullword contains binary zeroes. - For codes DS and SS the doubleword is interpreted as the DSPNAME for the referenced data space. - For code SC the doubleword is interpreted as a component identifier. - For other codes this doubleword has no meaning and should be set to zero.			
60	(3C)	SIGNED	4	(0)	Align on word boundary
60	(3C)	CHARACTER	16	ES31AS(0)	IPCS address space descriptor
60	(3C)	CHARACTER	1	ES31AS0(0)	Begin BLSRDATS #MD03009
60	(3C)	CHARACTER	2	ES31AST(0)	Address space type code
60	(3C)	ADDRESS	2		Address space type code
60	(3C)	X'C140'	0	ZZZASTA	"C'A '" ABSOLUTE
60	(3C)	X'C2D3'	0	ZZZASTBL	"C'BL'" BLOCK
60	(3C)	X'C2E2'	0	ZZZASTBS	"C'BS'" RBA

Table 313. Structure ES31 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
60	(3C)	X'C2E3'	0	ZZZASTBT	"C'BT'" TTR
60	(3C)	X'C340'	0	ZZZASTC	"C'C '" CPU STATUS
60	(3C)	X'C3C5'	0	ZZZASTCE	"C'CE'" CPU DOMAIN(VECTOR)
60	(3C)	X'C3D9'	0	ZZZASTCR	"C'CR'" CPU REAL
60	(3C)	X'C3E3'	0	ZZZASTCT	"C'CT'" CPU DOMAIN(CPUTRACE)
60	(3C)	X'C3E5'	0	ZZZASTCV	"C'CV'" CPU ASID
60	(3C)	X'C4E2'	0	ZZZASTDS	"C'DS'" ASID DSPNAME
60	(3C)	X'C840'	0	ZZZASTH	"C'H '" HEADER
60	(3C)	X'D3C9'	0	ZZZASTLI	"C'LI'" LITERAL
60	(3C)	X'4040'	0	ZZZASTNO	"C' '" No address space type code
60	(3C)	X'E2C2'	0	ZZZASTSB	"C'SB'" DOMAIN(SDUMPBUFFER)
60	(3C)	X'E2C3'	0	ZZZASTSC	"C'SC'" COMPDATA
60	(3C)	X'E2C4'	0	ZZZASTSD	"C'SD'" DOMAIN(SUMDUMP)
60	(3C)	X'E2E2'	0	ZZZASTSS	"C'SS'" ASID DSPNAME SUMDUMP
60	(3C)	X'E2E5'	0	ZZZASTSV	"C'SV'" ASID SUMDUMP
62	(3E)	BITSTRING	2	ES31ASH	Reserved
64	(40)	SIGNED	4	ES31AS1(0)	Integer 1
64	(40)	SIGNED	4		Integer 1
68	(44)	CHARACTER	8	ES31ASC(0)	Second qualifier
68	(44)	SIGNED	4	ES31AS2(0)	Integer 2
68	(44)	SIGNED	4		Integer 2
72	(48)	BITSTRING	4	ES31AS3	Reserved
76	(4C)	CHARACTER	1	ES31AS9(0)	End BLSRDATS #MD03009
76	(4C)	ADDRESS	4	ES31LAD	Logical address
IPCS records the following properties for areas of storage: - The offset between an addressed byte and the physical origin of this area. - The physical length of this area. - A data type. - An indication whether the area is scalar or an array and, if the area is an array, the number of entries in the array and the subscript which applies to the first entry.					
80	(50)	SIGNED	4	(0)	Align structure on boundary
80	(50)	CHARACTER	60	ES31D(0)	IPCS attribute descriptor
80	(50)	CHARACTER	1	ES31D00(0)	Begin BLSRDATC #MD03007
80	(50)	ADDRESS	4	ES31DOF	Offset in bytes
84	(54)	ADDRESS	4	ES31DLE	Length in bytes
88	(58)	SIGNED	1	ES31DOB	
89	(59)	SIGNED	1	ES31DLB	
90	(5A)	SIGNED	2	(0)	Align structure on boundary
90	(5A)	CHARACTER	34	ES31DT(0)	IPCS data type descriptor
90	(5A)	CHARACTER	1	ES31DT0(0)	Begin BLSRDATT #MD04356
90	(5A)	CHARACTER	1	ES31DTY(0)	Data type code
90	(5A)	ADDRESS	1		Data type code
------- The following data type codes are supported by IPCS -----					
90	(5A)	X'C1'	0	ZZZDTYA	"C'A',1,C'C'" Pointer
90	(5A)	X'C2'	0	ZZZDTYB	"C'B',1,C'C'" Bit
90	(5A)	X'C3'	0	ZZZDTYC	"C'C',1,C'C'" Character
90	(5A)	X'C5'	0	ZZZDTYE	"C'E',1,C'C'" Float
90	(5A)	X'C6'	0	ZZZDTYF	"C'F',1,C'C'" Signed
90	(5A)	X'C9'	0	ZZZDTYI	"C'I',1,C'C'" Instruction

Table 313. Structure ES31 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
90	(5A)	X'D3'	0	ZZZDTYL	"C'L',1,C'C' Module @D1A"
90	(5A)	X'D4'	0	ZZZDTYM	"C'M',1,C'C'" Structure
90	(5A)	X'D7'	0	ZZZDTYP	"C'P',1,C'C'" Packed
90	(5A)	X'E4'	0	ZZZDTYU	"C'U',1,C'C'" Area
90	(5A)	X'E8'	0	ZZZDTYY	"C'Y',1,C'C'" Unsigned
90	(5A)	X'E9'	0	ZZZDTYZ	"C'Z',1,C'C'" Zoned
91	(5B)	BITSTRING	1		
92	(5C)	CHARACTER	31	ES31DTD	Data name
123	(7B)	CHARACTER	1	ES31DTE	reserved
124	(7C)	CHARACTER	1	ES31DT9(0)	End BLSRDATT #MD04356
124	(7C)	SIGNED	4	ES31DIM	Array entry count
128	(80)	SIGNED	4	ES31DIL	Subscript of initial array entry
132	(84)	BITSTRING	4	ES31DF	Flags
		1...		ES31DFA	"BIT0" Array
136	(88)	BITSTRING	4		
140	(8C)	CHARACTER	1	ES31D99(0)	End BLSRDATC #MD03007
140	(8C)	ADDRESS	4	ES31MAD	Address of 1st missing byte
144	(90)	BITSTRING	15		
159	(9F)	BITSTRING	1	ES31SRC	Scan result code
160	(A0)	BITSTRING	1	ES31KEY	Storage key, X'FF'=indeterminate
Flags					
161	(A1)	BITSTRING	3	ES31F(0)	Flags
161	(A1)	BITSTRING	1	ES31FS	Storage flags
		1...		ES31FSC	"BIT0" Storage information complete
		.1..		ES31FS2	"BIT1" Multiple storage keys
		..1.		ES31FSM	"BIT2" Not all storage in dump
		...1		ES31FSA	"BIT3" Absolute address, ESSYABS, valid
		.... 1...		ES31FSP	"BIT4" Prefixed storage
		.... .1..		ES31FSR	"BIT5" Reclaimed storage
		.... ..1.		ES31FSX	"BIT6" Multiple records
		1		ES31FSS	"BIT7" SUMDUMP data
162	(A2)	BITSTRING	1	ES31FC	Control flags
		1...		ES31FCD	"BIT0" Drop not permitted
		.1..		ES31FF9	"BIT1" Scan complete
163	(A3)	BITSTRING	1		
		1...		ES31FCO	"BIT0" Common storage
		.1..		ES31FFP	"BIT1" Fast path access mode
		..1.		ES31FRA	"BIT2" Right-align short line
		...1		ES31FSH	"BIT3" Shared storage
164	(A4)	ADDRESS	4	ES31ABS	Absolute address for this address
168	(A8)	BITSTRING	12		
Remark--LENGTH(0:512) characters					
180	(B4)	CHARACTER	1	ES31R(0)	Remark data
180	(B4)	SIGNED	2	ES31RL	Length of remark text
180	(B4)	X'0'	0	ES31LTL	"0" Minimum remark text length
180	(B4)	X'200'	0	ES31HTL	"512" Maximum remark text length
182	(B6)	CHARACTER	1	ES31RT(0)	Remark text
694	(2B6)	CHARACTER	1	ES31999(0)	End BLSRESSY #MD07340

Table 313. Structure ES31 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
694	(2B6)	X'B6'	0	ES31LRL	"ES31RT-ES31000" Minimum record length
694	(2B6)	X'2B6'	0	ES31HRL	"ES31999-ES31000" Maximum record length

Table 314. Cross Reference for BLSRESSY

Name	Offset	Hex Tag
BIT0	0	80
BIT1	0	40
BIT2	0	20
BIT3	0	10
BIT4	0	8
BIT5	0	4
BIT6	0	2
BIT7	0	1
ES31	0	
ES31ABS	A4	
ES31AS	3C	
ES31ASC	44	
ES31ASH	3E	0
ES31AST	3C	
ES31AS0	3C	
ES31AS1	40	
ES31AS2	44	
ES31AS3	48	0
ES31AS9	4C	
ES31D	50	
ES31DF	84	0
ES31DFA	84	80
ES31DIL	80	0
ES31DIM	7C	0
ES31DLB	59	0
ES31DLE	54	
ES31DOB	58	0
ES31DOF	50	
ES31DT	5A	
ES31DTD	5C	40404040
ES31DTE	7B	40
ES31DTY	5A	
ES31DT0	5A	
ES31DT9	7C	
ES31D00	50	
ES31D99	8C	
ES31ELK	3B	
ES31F	A1	
ES31FC	A2	0
ES31FCD	A2	80
ES31FCO	A3	80

Table 314. Cross Reference for BLSRESSY (continued)

Name	Offset	Hex Tag
ES31FFP	A3	40
ES31FF9	A2	40
ES31FRA	A3	20
ES31FS	A1	0
ES31FSA	A1	10
ES31FSC	A1	80
ES31FSH	A3	10
ES31FSM	A1	20
ES31FSP	A1	8
ES31FSR	A1	4
ES31FSS	A1	1
ES31FSX	A1	2
ES31FS2	A1	40
ES31HRL	2B6	2B6
ES31HTL	B4	200
ES31KEY	A0	0
ES31LAD	4C	
ES31LKL	3B	3B
ES31LRL	2B6	B6
ES31LTL	B4	0
ES31MAD	8C	
ES31R	B4	
ES31RDX	18	0
ES31RID	0	C5E2
ES31RL	B4	0
ES31RST	3B	40
ES31RST31	3B	40
ES31RST64	3B	F2
ES31RT	B6	40404040
ES31SRC	9F	0
ES31SYM	1C	40404040
ES31000	0	
ES31999	2B6	
ZZZASTA	3C	C140
ZZZASTBL	3C	C2D3
ZZZASTBS	3C	C2E2
ZZZASTBT	3C	C2E3
ZZZASTC	3C	C340
ZZZASTCE	3C	C3C5
ZZZASTCR	3C	C3D9
ZZZASTCT	3C	C3E3
ZZZASTCV	3C	C3E5
ZZZASTDS	3C	C4E2
ZZZASTH	3C	C840
ZZZASTLI	3C	D3C9
ZZZASTNO	3C	4040
ZZZASTSB	3C	E2C2
ZZZASTSC	3C	E2C3
ZZZASTSD	3C	E2C4

Table 314. Cross Reference for BLSRESSY (continued)

Name	Offset	Hex Tag
ZZZASTSS	3C	E2E2
ZZZASTSV	3C	E2E5
ZZZDTYA	5A	C1
ZZZDTYB	5A	C2
ZZZDTYC	5A	C3
ZZZDTYE	5A	C5
ZZZDTYF	5A	C6
ZZZDTYI	5A	C9
ZZZDTYL	5A	D3
ZZZDTYM	5A	D4
ZZZDTYP	5A	D7
ZZZDTYU	5A	E4
ZZZDTYY	5A	E8
ZZZDTYZ	5A	E9

Chapter 65. BLSRES64 Information

BLSRES64 Programming Interface Information

BLSRES64 is a programming interface.

BLSRES64 Heading Information

Common Name:	IPCS Symbol Table Record
Macro ID:	BLSRESSY
DSECT Name:	ESSY
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	ES Offset: 0 Length: 2
Storage Attributes:	Main Storage: No Virtual Storage: No Auxiliary Storage: Yes Subpool: Any that may be altered by key 8 programs Key: 8 Data Space: No Residency: LOC(ANY,ANY)
Size:	ABITS=31: 182 bytes + a remark containing 0-512 bytes of text ABITS=64: 210 bytes + a remark containing 0-512 bytes of text
Created by:	IPCS subcommands concerned with debugging
Pointed to by:	Parameter lists used by IPCS programs to describe a block of storage in a dump or trace data set or a reconstruction of part of a dumped system.
Serialization:	None
Function:	Each dump directory equate symbol record records the association between a symbol, e.g., CVT, ASCB00001, ..., and the location and properties of a block of storage. IPCS modules also use this structure as a parameter to communicate the location of a block of storage.

BLSRES64 mapping

Table 315. Structure ES64

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ES64	, IPCS Equate Symbol Record
0	(0)	CHARACTER	1	ES64000(0)	Begin BLSRESSY #MD07340
0	(0)	CHARACTER	2	ES64RID	Record type==>ES
2	(2)	BITSTRING	6		
8	(8)	CHARACTER	8		
16	(10)	BITSTRING	8		
An Equate Symbol record defines one symbol, associating it with a contiguous block of storage in an address space.					
24	(18)	SIGNED	4	ES64RDX	Data set index
28	(1C)	CHARACTER	31	ES64SYM	Equated symbol
59	(3B)	CHARACTER	1	ES64ELK(0)	End of logical key

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Table 315. Structure ES64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
59	(3B)	X'3B'	0	ES64LKL	"ES64ELK-ES64000" Logical key length
59	(3B)	CHARACTER	1	ES64RST	BLSRESSY subtype - ABITS=64
59	(3B)	X'40'	0	ES64RST31	"C' '" BLSRESSY subtype - ABITS=31
59	(3B)	X'F2'	0	ES64RST64	"C'2'" BLSRESSY subtype - ABITS=64

An IPCS address space is specified by three values:
(1) A two-character code identifying the type of address space:
- Letter code A indicates that the file contains an MVS high-speed dump and that absolute main storage of the dumped system is being referenced (ABSOLUTE)
- Code BL indicates that a physical block in a file is being referenced using a relative block number (BLOCK)
- Code BS indicates that a relative byte address group in the file is being referenced (RBA)
- Code BT indicates that a physical block in a file is being referenced using a relative track address (TTR)
- Letter code C indicates that the file contains an MVS high-speed dump and that the CPU status data for one dumped CPU is being referenced (CPU STATUS)
- Code CE indicates that the file contains an MVS high-speed dump and that vector registers for one CPU are being referenced (CPU DOMAIN(VECTOR))
- Code CR indicates that the file contains an MVS high-speed dump and that real main storage seen by one CPU is being referenced (CPU REAL)
- Code CT indicates that the file contains an MVS high-speed dump and that a console loop trace for one CPU is being referenced (CPU DOMAIN(CPUTRACE))
- Code CV indicates that the file contains an MVS high-speed dump and that virtual main storage seen by one MVS address space dispatched on a designated CPU is being referenced (CPU ASID)
- Code DS indicates that the file contains an MVS high-speed dump and that a data space is being referenced (ASID DSPNAME)
- Letter code H indicates that the file contains an MVS

Table 315. Structure ES64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		high-speed dump and that the header data for the dump is being referenced (HEADER) - Code LI refers to a literal value associated with a symbol (LITERAL) - Code SB indicates that the file contains an MVS high-speed dump and that the SDUMP 4K buffer is being referenced (DOMAIN(SDUMPBUFFER)) - Code SC indicates that the file contains an MVS high-speed dump and that component data is being referenced (COMPDATA) - Code SD indicates that the file contains an MVS high-speed dump and that the SDUMP summary dump records are being referenced (DOMAIN(SUMDUMP)) - Code SS indicates that the file contains an MVS high-speed dump and that the portion of a data space represented in summary dump records is being referenced (ASID DSPNAME SUMDUMP) - Code SV indicates that the file contains an MVS high-speed dump and that the portion of one MVS address space represented in summary dump records is being referenced (ASID SUMDUMP) (2) A binary integer whose interpretation depends on the preceding code: - For code BL this integer should be the relative block number - For code BS this integer should be the relative byte address group number - For code BT this integer should be the relative track address - For codes DS and SS this integer contains the address space identification (ASID) for the address space that owns the referenced data space. - For code LI this integer is an arbitrary number that IPCS associates with the symbolic literal. Zero is used for literals when no storage is available. - For codes beginning with the letter C this integer contains the System/370 CPU address (STAP instruction) for the referenced			
		CPU or X'FFFFFFFF'. - For other codes this integer has no meaning and should be set to X'FFFFFFFF'. (3) A doubleword whose interpretation depends on the preceding code: - For code A the first fullword contains zero normally. A non-zero associated ASID may appear in the first fullword in the dump header of records written by SADUMP. The second fullword contains binary zeroes in all cases. - For codes CV and SV the first fullword is interpreted as a binary integer that contains the address space identification (ASID) for the referenced address space, and the second fullword contains binary zeroes. - For codes DS and SS the doubleword is interpreted as the DSPNAME for the referenced data space. - For code SC the doubleword is interpreted as a component identifier. - For other codes this doubleword has no meaning and should be set to zero.			
60	(3C)	SIGNED	4	(0)	Align on word boundary
60	(3C)	CHARACTER	16	ES64AS(0)	IPCS address space descriptor
60	(3C)	CHARACTER	1	ES64AS0(0)	Begin BLSRDATS #MD03009
60	(3C)	CHARACTER	2	ES64AST(0)	Address space type code
60	(3C)	ADDRESS	2		Address space type code
60	(3C)	X'C140'	0	ZZZASTA	"C'A '" ABSOLUTE
60	(3C)	X'C2D3'	0	ZZZASTBL	"C'BL'" BLOCK
60	(3C)	X'C2E2'	0	ZZZASTBS	"C'BS'" RBA

Table 315. Structure ES64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
60	(3C)	X'C2E3'	0	ZZZASTBT	"C'BT'" TTR
60	(3C)	X'C340'	0	ZZZASTC	"C'C '" CPU STATUS
60	(3C)	X'C3C5'	0	ZZZASTCE	"C'CE'" CPU DOMAIN(VECTOR)
60	(3C)	X'C3D9'	0	ZZZASTCR	"C'CR'" CPU REAL
60	(3C)	X'C3E3'	0	ZZZASTCT	"C'CT'" CPU DOMAIN(CPUTRACE)
60	(3C)	X'C3E5'	0	ZZZASTCV	"C'CV'" CPU ASID
60	(3C)	X'C4E2'	0	ZZZASTDS	"C'DS'" ASID DSPNAME
60	(3C)	X'C840'	0	ZZZASTH	"C'H '" HEADER
60	(3C)	X'D3C9'	0	ZZZASTLI	"C'LI'" LITERAL
60	(3C)	X'4040'	0	ZZZASTNO	"C' '" No address space type code
60	(3C)	X'E2C2'	0	ZZZASTSB	"C'SB'" DOMAIN(SDUMPBUFFER)
60	(3C)	X'E2C3'	0	ZZZASTSC	"C'SC'" COMPDATA
60	(3C)	X'E2C4'	0	ZZZASTSD	"C'SD'" DOMAIN(SUMDUMP)
60	(3C)	X'E2E2'	0	ZZZASTSS	"C'SS'" ASID DSPNAME SUMDUMP
60	(3C)	X'E2E5'	0	ZZZASTSV	"C'SV'" ASID SUMDUMP
62	(3E)	BITSTRING	2	ES64ASH	Reserved
64	(40)	SIGNED	4	ES64AS1(0)	Integer 1
64	(40)	SIGNED	4		Integer 1
68	(44)	CHARACTER	8	ES64ASC(0)	Second qualifier
68	(44)	SIGNED	4	ES64AS2(0)	Integer 2
68	(44)	SIGNED	4		Integer 2
72	(48)	BITSTRING	4	ES64AS3	Reserved
76	(4C)	CHARACTER	1	ES64AS9(0)	End BLSRDATS #MD03009
76	(4C)	BITSTRING	8	ES64LAD	Logical address
IPCS records the following properties for areas of storage: - The offset between an addressed byte and the physical origin of this area. - The physical length of this area. - A data type. - An indication whether the area is scalar or an array and, if the area is an array, the number of entries in the array and the subscript which applies to the first entry.					
84	(54)	SIGNED	4	(0)	Align structure on boundary
84	(54)	CHARACTER	76	ES64D(0)	IPCS attribute descriptor
84	(54)	CHARACTER	1	ES64D00(0)	Begin BLSRDATC #MD03007
84	(54)	SIGNED	8	ES64DOF(0)	Offset in bytes
84	(54)	ADDRESS	8		Offset in bytes
92	(5C)	ADDRESS	8	ES64DLE	Length in bytes
100	(64)	SIGNED	1	ES64DOB	
101	(65)	SIGNED	1	ES64DLB	
102	(66)	SIGNED	2	(0)	Align structure on boundary
102	(66)	CHARACTER	34	ES64DT(0)	IPCS data type descriptor
102	(66)	CHARACTER	1	ES64DT0(0)	Begin BLSRDATT #MD04356
102	(66)	CHARACTER	1	ES64DTY(0)	Data type code
102	(66)	ADDRESS	1		Data type code
------- The following data type codes are supported by IPCS -----					
102	(66)	X'C1'	0	ZZZDTYA	"C'A',1,C'C'" Pointer
102	(66)	X'C2'	0	ZZZDTYB	"C'B',1,C'C'" Bit
102	(66)	X'C3'	0	ZZZDTYC	"C'C',1,C'C'" Character
102	(66)	X'C5'	0	ZZZDTYE	"C'E',1,C'C'" Float
102	(66)	X'C6'	0	ZZZDTYF	"C'F',1,C'C'" Signed

Table 315. Structure ES64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
102	(66)	X'C9'	0	ZZZDTYI	"C'I',1,C'C'" Instruction
102	(66)	X'D3'	0	ZZZDTYL	"C'L',1,C'C' Module @D1A"
102	(66)	X'D4'	0	ZZZDTYM	"C'M',1,C'C'" Structure
102	(66)	X'D7'	0	ZZZDTYP	"C'P',1,C'C'" Packed
102	(66)	X'E4'	0	ZZZDTYU	"C'U',1,C'C'" Area
102	(66)	X'E8'	0	ZZZDTYY	"C'Y',1,C'C'" Unsigned
102	(66)	X'E9'	0	ZZZDTYZ	"C'Z',1,C'C'" Zoned
103	(67)	BITSTRING	1		
104	(68)	CHARACTER	31	ES64DTD	Data name
135	(87)	CHARACTER	1	ES64DTE	reserved
136	(88)	CHARACTER	1	ES64DT9(0)	End BLSRDATT #MD04356
136	(88)	BITSTRING	8	ES64DIM	Array entry count
144	(90)	BITSTRING	8	ES64DIL	Subscript of initial array entry
152	(98)	BITSTRING	4	ES64DF	Flags
		1...		ES64DFA	"BIT0" Array
156	(9C)	BITSTRING	4		
160	(A0)	CHARACTER	1	ES64D99(0)	End BLSRDATC #MD03007
160	(A0)	BITSTRING	8	ES64MAD	Address of 1st missing byte
168	(A8)	BITSTRING	15		
183	(B7)	BITSTRING	1	ES64SRC	Scan result code
184	(B8)	BITSTRING	1	ES64KEY	Storage key, X'FF'=indeterminate
Flags					
185	(B9)	BITSTRING	3	ES64F(0)	Flags
185	(B9)	BITSTRING	1	ES64FS	Storage flags
		1...		ES64FSC	"BIT0" Storage information complete
		.1..		ES64FS2	"BIT1" Multiple storage keys
		..1.		ES64FSM	"BIT2" Not all storage in dump
		...1		ES64FSA	"BIT3" Absolute address, ESSYABS, valid
		.... 1...		ES64FSP	"BIT4" Prefixed storage
		.... .1..		ES64FSR	"BIT5" Reclaimed storage
		.... ..1.		ES64FSX	"BIT6" Multiple records
		1		ES64FSS	"BIT7" SUMDUMP data
186	(BA)	BITSTRING	1	ES64FC	Control flags
		1...		ES64FCD	"BIT0" Drop not permitted
		.1..		ES64FF9	"BIT1" Scan complete
187	(BB)	BITSTRING	1		
		1...		ES64FCO	"BIT0" Common storage
		.1..		ES64FFP	"BIT1" Fast path access mode
		..1.		ES64FRA	"BIT2" Right-align short line
		...1		ES64FSH	"BIT3" Shared storage
188	(BC)	BITSTRING	8	ES64ABS	Absolute address for this address
196	(C4)	BITSTRING	12		
Remark--LENGTH(0:512) characters					
208	(D0)	CHARACTER	1	ES64R(0)	Remark data
208	(D0)	SIGNED	2	ES64RL	Length of remark text
208	(D0)	X'0'	0	ES64LTL	"0" Minimum remark text length
208	(D0)	X'200'	0	ES64HTL	"512" Maximum remark text length
210	(D2)	CHARACTER	1	ES64RT(0)	Remark text

Table 315. Structure ES64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
722	(2D2)	CHARACTER	1	ES64999(0)	End BLSRESSY #MD07340
722	(2D2)	X'D2'	0	ES64LRL	"ES64RT-ES64000" Minimum record length
722	(2D2)	X'2D2'	0	ES64HRL	"ES64999-ES64000" Maximum record length

Table 316. Cross Reference for BLSRES64

Name	Offset	Hex Tag
ES64	0	
ES64ABS	BC	0
ES64AS	3C	
ES64ASC	44	
ES64ASH	3E	0
ES64AST	3C	
ES64AS0	3C	
ES64AS1	40	
ES64AS2	44	
ES64AS3	48	0
ES64AS9	4C	
ES64D	54	
ES64DF	98	0
ES64DFA	98	80
ES64DIL	90	0
ES64DIM	88	0
ES64DLB	65	0
ES64DLE	5C	
ES64DOB	64	0
ES64DOF	54	
ES64DT	66	
ES64DTD	68	40404040
ES64DTE	87	40
ES64DTY	66	
ES64DT0	66	
ES64DT9	88	
ES64D00	54	
ES64D99	A0	
ES64ELK	3B	
ES64F	B9	
ES64FC	BA	0
ES64FCD	BA	80
ES64FCO	BB	80
ES64FFP	BB	40
ES64FF9	BA	40
ES64FRA	BB	20
ES64FS	B9	0
ES64FSA	B9	10
ES64FSC	B9	80
ES64FSH	BB	10

Table 316. Cross Reference for BLSRES64 (continued)

Name	Offset	Hex Tag
ES64FSM	B9	20
ES64FSP	B9	8
ES64FSR	B9	4
ES64FSS	B9	1
ES64FSX	B9	2
ES64FS2	B9	40
ES64HRL	2D2	2D2
ES64HTL	D0	200
ES64KEY	B8	0
ES64LAD	4C	0
ES64LKL	3B	3B
ES64LRL	2D2	D2
ES64LTL	D0	0
ES64MAD	A0	0
ES64R	D0	
ES64RDX	18	0
ES64RID	0	C5E2
ES64RL	D0	0
ES64RST	3B	F2
ES64RST31	3B	40
ES64RST64	3B	F2
ES64RT	D2	40404040
ES64SRC	B7	0
ES64SYM	1C	40404040
ES64000	0	
ES64999	2D2	
ZZZASTA	3C	C140
ZZZASTBL	3C	C2D3
ZZZASTBS	3C	C2E2
ZZZASTBT	3C	C2E3
ZZZASTC	3C	C340
ZZZASTCE	3C	C3C5
ZZZASTCR	3C	C3D9
ZZZASTCT	3C	C3E3
ZZZASTCV	3C	C3E5
ZZZASTDS	3C	C4E2
ZZZASTH	3C	C840
ZZZASTLI	3C	D3C9
ZZZASTNO	3C	4040
ZZZASTSB	3C	E2C2
ZZZASTSC	3C	E2C3
ZZZASTSD	3C	E2C4
ZZZASTSS	3C	E2E2
ZZZASTSV	3C	E2E5
ZZZDTYA	66	C1
ZZZDTYB	66	C2
ZZZDTYC	66	C3
ZZZDTYE	66	C5
ZZZDTYF	66	C6

Table 316. Cross Reference for BLSRES64 (continued)

Name	Offset	Hex Tag
ZZZDTYI	66	C9
ZZZDTYL	66	D3
ZZZDTYM	66	D4
ZZZDTYP	66	D7
ZZZDTYU	66	E4
ZZZDTYY	66	E8
ZZZDTYZ	66	E9

Chapter 66. BLSRNAMP Information

BLSRNAMP Programming Interface Information

BLSRNAMP is a programming interface.

BLSRNAMP Heading Information

Common Name:	IPCS NAME service parameter list
Macro ID:	BLSRNAMP
DSECT Name:	NAMP
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	NAMP Offset: 0 Length: 4
Storage Attributes:	Subpool: 0 through 127, 251 Key: 8 Data Space: No Residency: LOC(ANY)
Size:	100 bytes
Created by:	IPCS exits that use the IPCS Name Service
Pointed to by:	N/A
Serialization:	N/A
Function:	This parameter list is used by IPCS exits and the NAME Subcommand to request the NAME service to convert a STOKEN or the real address of a data space ASTE to data space name and the owning ASID.

BLSRNAMP mapping

Table 317. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'80'	0	BIT0	"128"
0	(0)	X'40'	0	BIT1	"64"
0	(0)	X'20'	0	BIT2	"32"
0	(0)	X'10'	0	BIT3	"16"
0	(0)	X'8'	0	BIT4	"8"
0	(0)	X'4'	0	BIT5	"4"
0	(0)	X'2'	0	BIT6	"2"
0	(0)	X'1'	0	BIT7	"1"

Table 318. Structure NAMP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NAMP	, IPCS name service parameter list
0	(0)	CHARACTER	1	NAMP000(0)	Begin BLSRNAMP #MD93124

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Table 318. Structure NAMP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
A Name service (NAMP) parameter list contains fields for either a STOKEN or a real address of a data space ASTE as input. Output data space and ASID information are placed in other fields.					
0	(0)	CHARACTER	5	NAMPID(0)	Name service parameter identifier
0	(0)	CHARACTER	4	NAMPIDC	NAMP acronym
4	(4)	CHARACTER	1	NAMPIDL	NAMP level indicator
5	(5)	BITSTRING	3	NAMPPFLG(0)	Processing flags
5	(5)	BITSTRING	1	NAMPFL1(0)	First byte of flags (name 1)
5	(5)	BITSTRING	1	NAMPPFL1	First byte of flags (name 2)
		1...		NAMPFNOT	"BIT0" No output requested
		.1..		NAMPFAS	"BIT1" STOKEN identified as an address space
		..1.		NAMPFDS	"BIT2" STOKEN identified as a data space
		...1		NAMPF141	"BIT3" Suppress message BLS18141I
		.... 1...		NAMPFHS	"BIT4" STOKEN identified as a HIPER space
		.... .1..		NAMPFCAD	"BIT5" STOKEN identified as a common area data space
		.... ..1.		NAMPFSSP	"BIT6" STOKEN identified as a subspace
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	8	NAMPMODN	Name of module requesting the service
16	(10)	ADDRESS	4	NAMPASTE	Real address of a data space ASTE
20	(14)	BITSTRING	8		Reserved
28	(1C)	BITSTRING	8	NAMPSTKN	The input STOKEN to be translated
36	(24)	BITSTRING	4	NAMPASID	The address space ASID or owning ASID if the STOKEN is a data space
40	(28)	BITSTRING	8		Reserved
48	(30)	CHARACTER	8	NAMPDSPN	Data Space Name
48	(30)	CHARACTER	8	NAMPSSPN	Subspace name
56	(38)	SIGNED	4	NAMPOUTL	Length of contents of NAMPOUT field
60	(3C)	CHARACTER	40	NAMPOUT	Space addressable by the STOKEN in standard IPCS display format
100	(64)	BITSTRING	28		Reserved
128	(80)	CHARACTER	1	NAMP999(0)	End BLSRNAMP #MD93124

Table 319. Cross Reference for BLSRNAMP

Name	Offset	Hex Tag
BIT0	0	80
BIT1	0	40
BIT2	0	20
BIT3	0	10
BIT4	0	8

Table 319. Cross Reference for BLSRNAMP (continued)

Name	Offset	Hex Tag
BIT5	0	4
BIT6	0	2
BIT7	0	1
NAMP	0	
NAMPASID	24	0
NAMPASTE	10	
NAMPDSPN	30	40404040
NAMPFAS	5	40
NAMPFCAD	5	4
NAMPFDS	5	20
NAMPFHS	5	8
NAMPFL1	5	
NAMPFNOT	5	80
NAMPFSSP	5	2
NAMPF141	5	10
NAMPID	0	
NAMPIDC	0	D5C1D4D7
NAMPIDL	4	F1
NAMPMODN	8	40404040
NAMPOUT	3C	40404040
NAMPOUTL	38	0
NAMPPFLG	5	
NAMPPFL1	5	0
NAMPSSPN	30	
NAMPSTKN	1C	0
NAMP000	0	
NAMP999	80	

Chapter 67. BLSRPRD Information

BLSRPRD Programming Interface Information

BLSRPRD is a programming interface.

BLSRPRD Heading Information

Common Name:	Unformatted dump record prefix
Macro ID:	BLSRPRD
DSECT Name:	PRD or any name used as macro label
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	DR Offset: 0 Length: 2
Storage Attributes:	Main Storage: N/A Virtual Storage: N/A Auxiliary Storage: N/A Subpool: N/A Key: N/A Data Space: N/A Residency: N/A
Size:	4160 bytes
Created by:	Dumping services
Pointed to by:	N/A
Serialization:	None
Function:	Maps most records to be found in an unformatted OS/390 dump. The internal structure of component-supplied records may only be known to the code that writes those records at the time a dump is recorded and the code supplied by the component to use the contents. It may, at the descretion of the component, also be externalized.

BLSRPRD mapping

Table 320. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'1040'	0	PRDINPUTLENGTH	"4160" Length of dump record

Table 321. Structure PRDINPUT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDINPUT	, Main DSECT for dump record
0	(0)	CHARACTER	64	PRDPREF	Dump record prefix
64	(40)	CHARACTER	4096	PRDDATA	Dump record body
0	(0)	X'80'	0	BIT0	"128"
0	(0)	X'40'	0	BIT1	"64"
0	(0)	X'20'	0	BIT2	"32"
0	(0)	X'10'	0	BIT3	"16"

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Table 321. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'8'	0	BIT4	"8"
0	(0)	X'4'	0	BIT5	"4"
0	(0)	X'2'	0	BIT6	"2"
0	(0)	X'1'	0	BIT7	"1"
0	(0)	X'40'	0	PRDSIZ	"64" Length of dump record prefix
0	(0)	SIGNED	4	(0)	Align on fullword boundary
0	(0)	CHARACTER	1	PRD(0)	Dump prefix
Dump record prefix #MD07340					
0	(0)	CHARACTER	3	PRDID(0)	Dump record prefix identifier
0	(0)	CHARACTER	2	PRDIDC	Dump record prefix eye-catcher
0	(0)	X'C4D9'	0	PRDIDCV	"C'DR',2,C'C'" Dump record prefix eye-catcher
2	(2)	CHARACTER	1	PRDIDV	Dump record prefix version
2	(2)	X'F1'	0	PRDIDV31	"C'1',1,C'C'" 31-bit support levels
2	(2)	X'F2'	0	PRDIDV64	"C'2',1,C'C'" 64-bit support levels
3	(3)	ADDRESS	1	PRDLEN	Dump record prefix length
An IPCS address space is specified by three values: (1) A two-character code identifying the type of address space: - Letter code A indicates that the file contains an MVS high-speed dump and that absolute main storage of the dumped system is being referenced (ABSOLUTE) - Code BL indicates that a physical block in a file is being referenced using a relative block number (BLOCK) - Code BS indicates that a relative byte address group in the file is being referenced (RBA) - Code BT indicates that a physical block in a file is being referenced using a relative track address (TTR) - Letter code C indicates that the file contains an MVS high-speed dump and that the CPU status data for one dumped CPU is being referenced (CPU STATUS) - Code CE indicates that the file contains an MVS high-speed dump and that vector registers for one CPU are being referenced (CPU DOMAIN(VECTOR)) - Code CR indicates that the file contains an MVS high-speed dump and that real main storage seen by one CPU is being referenced (CPU REAL) - Code CT indicates that the file contains an MVS high-speed dump and that a console loop trace for one CPU is being referenced (CPU DOMAIN(CPUTRACE)) - Code CV indicates that the file contains an MVS high-speed dump and that virtual main storage seen by one MVS address space dispatched on a designated CPU is being referenced (CPU ASID) - Code DS indicates that the file contains an MVS high-speed dump and that a data space is being referenced (ASID DSPNAME) - Letter code H indicates that the file contains an MVS					

Table 321. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		high-speed dump and that the header data for the dump is being referenced (HEADER) - Code LI refers to a literal value associated with a symbol (LITERAL) - Code SB indicates that the file contains an MVS high-speed dump and that the SDUMP 4K buffer is being referenced (DOMAIN(SDUMPBUFFER)) - Code SC indicates that the file contains an MVS high-speed dump and that component data is being referenced (COMPDATA) - Code SD indicates that the file contains an MVS high-speed dump and that the SDUMP summary dump records are being referenced (DOMAIN(SUMDUMP)) - Code SS indicates that the file contains an MVS high-speed dump and that the portion of a data space represented in summary dump records is being referenced (ASID DSPNAME SUMDUMP) - Code SV indicates that the file contains an MVS high-speed dump and that the portion of one MVS address space represented in summary dump records is being referenced (ASID SUMDUMP) (2) A binary integer whose interpretation depends on the preceding code: - For code BL this integer should be the relative block number - For code BS this integer should be the relative byte address group number - For code BT this integer should be the relative track address - For codes DS and SS this integer contains the address space identification (ASID) for the address space that owns the referenced data space. - For code LI this integer is an arbitrary number that IPCS associates with the symbolic literal. Zero is used for literals when no storage is available. - For codes beginning with the letter C this integer contains the System/370 CPU address (STAP instruction) for the referenced			
		CPU or X'FFFFFFFF'. - For other codes this integer has no meaning and should be set to X'FFFFFFFF'. (3) A doubleword whose interpretation depends on the preceding code: - For code A the first fullword contains zero normally. A non-zero associated ASID may appear in the first fullword in the dump header of records written by SADUMP. The second fullword contains binary zeroes in all cases. - For codes CV and SV the first fullword is interpreted as a binary integer that contains the address space identification (ASID) for the referenced address space, and the second fullword contains binary zeroes. - For codes DS and SS the doubleword is interpreted as the DSPNAME for the referenced data space. - For code SC the doubleword is interpreted as a component identifier. - For other codes this doubleword has no meaning and should be set to zero.			
4	(4)	SIGNED	4	(0)	Align on word boundary
4	(4)	CHARACTER	16	PRDAS(0)	IPCS address space descriptor
4	(4)	CHARACTER	1	PRDAS0(0)	Begin BLSRDATS #MD03009
4	(4)	CHARACTER	2	PRDAST(0)	Address space type code
4	(4)	ADDRESS	2		Address space type code
4	(4)	X'C140'	0	ZZZASTA	"C'A '" ABSOLUTE
4	(4)	X'C2D3'	0	ZZZASTBL	"C'BL'" BLOCK
4	(4)	X'C2E2'	0	ZZZASTBS	"C'BS'" RBA

Table 321. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'C2E3'	0	ZZZASTBT	"C'BT'" TTR
4	(4)	X'C340'	0	ZZZASTC	"C'C '" CPU STATUS
4	(4)	X'C3C5'	0	ZZZASTCE	"C'CE'" CPU DOMAIN(VECTOR)
4	(4)	X'C3D9'	0	ZZZASTCR	"C'CR'" CPU REAL
4	(4)	X'C3E3'	0	ZZZASTCT	"C'CT'" CPU DOMAIN(CPUTRACE)
4	(4)	X'C3E5'	0	ZZZASTCV	"C'CV'" CPU ASID
4	(4)	X'C4E2'	0	ZZZASTDS	"C'DS'" ASID DSPNAME
4	(4)	X'C840'	0	ZZZASTH	"C'H '" HEADER
4	(4)	X'D3C9'	0	ZZZASTLI	"C'LI'" LITERAL
4	(4)	X'4040'	0	ZZZASTNO	"C' '" No address space type code
4	(4)	X'E2C2'	0	ZZZASTSB	"C'SB'" DOMAIN(SDUMPBUFFER)
4	(4)	X'E2C3'	0	ZZZASTSC	"C'SC'" COMPDATA
4	(4)	X'E2C4'	0	ZZZASTSD	"C'SD'" DOMAIN(SUMDUMP)
4	(4)	X'E2E2'	0	ZZZASTSS	"C'SS'" ASID DSPNAME SUMDUMP
4	(4)	X'E2E5'	0	ZZZASTSV	"C'SV'" ASID SUMDUMP
6	(6)	BITSTRING	2	PRDASH	Reserved
8	(8)	SIGNED	4	PRDAS1(0)	Integer 1
8	(8)	SIGNED	4		Integer 1
12	(C)	CHARACTER	8	PRDASC(0)	Second qualifier
12	(C)	SIGNED	4	PRDAS2(0)	Integer 2
12	(C)	SIGNED	4		Integer 2
16	(10)	BITSTRING	4	PRDAS3	Reserved
20	(14)	CHARACTER	1	PRDAS9(0)	End BLSRDATS #MD03009
20	(14)	ADDRESS	4	PRDLAD	Logical address
24	(18)	SIGNED	4	PRDSEQ	Sequence number used to prevent dumps from merging
28	(1C)	SIGNED	4	(2)	Reserved for data common to all types of dump records
36	(24)	BITSTRING	28	PRDTYPD	Record type specific data
64	(40)	CHARACTER	1	PRD999(0)	End BLSRDRPX #MD07340
Store Status Record (type C) Data					
36	(24)	BITSTRING	1	PRDFLAGS	Store status flags
		1...		PRDSSINV	"BIT0" Store status may be invalid
		.1..		PRDSIGPF	"BIT1" SIGP Stop and Store Status failed. The GPR designated by the R1 field of the SIGP instruction is stored at offset X'110' (PRDSIGPS) of the CPU status record.
		..1.		PRDGPRVL	"BIT2" GPRs valid despite invalid Store Status.
		...1		PRDBFP	"BIT3" OS/390 R6 or later - BFP support
		.... 1...		PRDBFPV	"BIT4" FPRs valid in extended status
		.... .1..		PRDBFPH	"BIT5" Not used
		.... ..1.		PRDZ1V	"BIT6"
		1		PRDZARCH	"BIT7" Status in z/Architecture format

Table 321. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		PRDESAME	"BIT7" Status in z/Architecture format
37	(25)	BITSTRING	27		Reserved
Dump Header Record (type H) Data					
36	(24)	BITSTRING	1	PRDDUMPT	Dump type
36	(24)	X'1'	0	PRDSADP	"1" Stand alone dump
36	(24)	X'2'	0	PRDSVCDP	"2" SVC dump
36	(24)	X'3'	0	PRDSMDP	"3" SYSMDUMP
36	(24)	X'4'	0	PRDSLPDP	"4" SLIP dump
36	(24)	X'5'	0	PRDBLSDP	"5" IPCS active
37	(25)	BITSTRING	27		Reserved
Storage Record (types A, CV, DS, SS, SV) Data					
36	(24)	BITSTRING	1	PRDKEY	Storage key for page
		1111 1111		PRDKEYQ	"X'FF'" Storage key not known
		1111		PRDKEYA	"BIT0+BIT1+BIT2+BIT3" Access-control code
		.... 1...		PRDKEYF	"BIT4" Fetch-protection indicator
		.... .11.		PRDKEYU	"BIT5+BIT6" Page usage indicators
		.... .1..		PRDKEYR	"BIT5" Page referenced
		.... ..1.		PRDKEYC	"BIT6" Page changed
37	(25)	BITSTRING	5		Reserved for common fields
42	(2A)	BITSTRING	22	PRDTYPS	Record type specific data
Data Space Storage Record (type DS, SS) Data.					
42	(2A)	SIGNED	2		Reserved
The following supplements the ASID and Data Space information.					
44	(2C)	ADDRESS	4	PRDASTE	Absolute address of ASTE
48	(30)	BITSTRING	8	PRDSTOKN	STOKEN
56	(38)	BITSTRING	8		Reserved
Storage Record (types CV, SV and SC) data. Note: The only COMPDATA record for which this information is regarded as present is COMPDATA(IARHVSHR) at this time.					
42	(2A)	BITSTRING	1	PRDSTYP	System area type
		1...		PRDCOMM	"BIT0" Common area
		.1..		PRDAAF	"BIT1" Absolute address given
		..1.		PRDSHARE	"BIT2" Shared
43	(2B)	BITSTRING	1		Reserved
44	(2C)	ADDRESS	4	PRDAAP	Absolute address
48	(30)	BITSTRING	16		Reserved
0	(0)	X'40'	0	PRD64SIZ	"64" Length of dump record prefix
0	(0)	SIGNED	4	(0)	Align on fullword boundary
0	(0)	CHARACTER	1	PRD64(0)	Dump prefix
Dump record prefix #MD07340					
0	(0)	CHARACTER	3	PRD64ID(0)	Dump record prefix identifier
0	(0)	CHARACTER	2	PRD64IDC	Dump record prefix eye-catcher

Table 321. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'C4D9'	0	PRD64IDCV	"C'DR',2,C'C'" Dump record prefix eye-catcher
2	(2)	CHARACTER	1	PRD64IDV	Dump record prefix version
2	(2)	X'F1'	0	PRD64IDV31	"C'1',1,C'C'" 31-bit support levels
2	(2)	X'F2'	0	PRD64IDV64	"C'2',1,C'C'" 64-bit support levels
3	(3)	ADDRESS	1	PRD64LEN	Dump record prefix length
4	(4)	SIGNED	4	(0)	Align on word boundary
4	(4)	CHARACTER	16	PRD64AS(0)	IPCS address space descriptor
4	(4)	CHARACTER	1	PRD64AS0(0)	Begin BLSRDATS #MD03009
4	(4)	CHARACTER	2	PRD64AST(0)	Address space type code
4	(4)	ADDRESS	2		Address space type code
6	(6)	BITSTRING	2	PRD64ASH	Reserved
8	(8)	SIGNED	4	PRD64AS1(0)	Integer 1
8	(8)	SIGNED	4		Integer 1
12	(C)	CHARACTER	8	PRD64ASC(0)	Second qualifier
12	(C)	SIGNED	4	PRD64AS2(0)	Integer 2
12	(C)	SIGNED	4		Integer 2
16	(10)	BITSTRING	4	PRD64AS3	Reserved
20	(14)	CHARACTER	1	PRD64AS9(0)	End BLSRDATS #MD03009
20	(14)	BITSTRING	8	PRD64LAD	Logical address
28	(1C)	SIGNED	4	PRD64SEQ	Sequence number used to prevent dumps from merging
32	(20)	BITSTRING	2		Reserved for data common to all types of dump records
34	(22)	ADDRESS	1	PRD64MSN	Merge sequence number
35	(23)	ADDRESS	1	PRD64PHASE	Phase of dumping program
35	(23)	X'0'	0	PRD64PHASE0	"0" No phase recorded
35	(23)	X'1'	0	PRD64PHASESADMPA	"1" SADMP early real data collection
35	(23)	X'2'	0	PRD64PHASESADMPB	"2" SADMP virtual data collection
35	(23)	X'3'	0	PRD64PHASESADMPC	"3" SADMP added real data collection
35	(23)	X'4'	0	PRD64PHASESADMPPFT	"4" SADMP - PFT
35	(23)	X'5'	0	PRD64PHASESADMPMINI	"5" SADMP - Minimal ASID real
35	(23)	X'6'	0	PRD64PHASESADMPSUMI	"6" SADMP - Summary ASID real
35	(23)	X'7'	0	PRD64PHASESADMPIN	"7" SADMP - Swapped-in ASID real
35	(23)	X'8'	0	PRD64PHASESADMPUSED	"8" SADMP - In-use real
35	(23)	X'9'	0	PRD64PHASESADMPMINO	"9" SADMP - Minimal ASID virtual
35	(23)	X'A'	0	PRD64PHASESADMPSUMO	"10" SADMP - Summary ASID virtual
35	(23)	X'B'	0	PRD64PHASESADMPPAGED	"11" SADMP - Swapped-in ASID virtual
35	(23)	X'C'	0	PRD64PHASESADMPSWAP	"12" SADMP - Swapped-out ASID virtual
35	(23)	X'D'	0	PRD64PHASESADMPRSRV	"13" SADMP - Available real
35	(23)	X'FF'	0	PRD64MAXMSN	"255" Maximum DrpxMSN
36	(24)	BITSTRING	28	PRD64TYPD	Record type specific data
64	(40)	CHARACTER	1	PRD64999(0)	End BLSRDRPX #MD07340

Store Status Record (type C) Data

Table 321. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	BITSTRING	1	PRD64FLAGS	Store status flags
		1...		PRD64SSINV	"BIT0" Store status may be invalid
		.1..		PRD64SIGPF	"BIT1" SIGP Stop and Store Status failed. The GPR designated by the R1 field of the SIGP instruction is stored at offset X'110' (PRDSIGPS) of the CPU status record.
		..1.		PRD64GPRVL	"BIT2" GPRs valid despite invalid Store Status.
		...1		PRD64BFP	"BIT3" OS/390 R6 or later - BFP support
		.... 1...		PRD64BFPV	"BIT4" FPRs valid in extended status
		.... .1..		PRD64BFPH	"BIT5" Not used
		.... ..1.		PRD64Z1V	"BIT6"
		1		PRD64ZARCH	"BIT7" Status in z/Architecture format
		1		PRD64ESAME	"BIT7" Status in z/Architecture format
37	(25)	BITSTRING	27		Reserved
Dump Header Record (type H) Data					
36	(24)	BITSTRING	1	PRD64DUMPT	Dump type
36	(24)	X'1'	0	PRD64SADP	"1" Stand alone dump
36	(24)	X'2'	0	PRD64SVCDP	"2" SVC dump
36	(24)	X'3'	0	PRD64SMDP	"3" SYSMDUMP
36	(24)	X'4'	0	PRD64SLPDP	"4" SLIP dump
36	(24)	X'5'	0	PRD64BLSDP	"5" IPCS active
37	(25)	BITSTRING	27		Reserved
Storage Record (types A, CV, DS, SS, SV) Data					
36	(24)	BITSTRING	1	PRD64KEY	Storage key for page
		1111 1111		PRD64KEYQ	"X'FF'" Storage key not known
		1111		PRD64KEYA	"BIT0+BIT1+BIT2+BIT3" Access-control code
		.... 1...		PRD64KEYF	"BIT4" Fetch-protection indicator
		.... .11.		PRD64KEYU	"BIT5+BIT6" Page usage indicators
		.... .1..		PRD64KEYR	"BIT5" Page referenced
		.... ..1.		PRD64KEYC	"BIT6" Page changed
37	(25)	BITSTRING	5		Reserved for common fields
42	(2A)	BITSTRING	22	PRD64TYPS	Record type specific data
Data Space Storage Record (type DS, SS) Data.					
42	(2A)	SIGNED	2		Reserved
44	(2C)	BITSTRING	20		Reserved
Storage Record (types CV, SV and SC) data. Note: The only COMPDATA record for which this information is regarded as present is COMPDATA(IARHVSHR) at this time.					

Table 321. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
42	(2A)	BITSTRING	1	PRD64STYP	System area type
		1...		PRD64COMM	"BIT0" Common area
		.1..		PRD64AAF	"BIT1" Absolute address given
		..1.		PRD64SHARE	"BIT2" Shared
43	(2B)	BITSTRING	1		Reserved
44	(2C)	BITSTRING	8	PRD64AAP	Absolute address
52	(34)	BITSTRING	12		Reserved

Table 322. Structure PRDINPUT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDINPUT	
64	(40)	CHARACTER	8	PRDMODNM	NAME OF PGM REQUESTING DUMP
72	(48)	CHARACTER	8	PRDTODVL	CLOCK VALUE AT TIME OF DUMP
80	(50)	CHARACTER	8	PRDCPU(0)	PROCESSOR IDENTIFICATION
80	(50)	CHARACTER	1	PRDPVRSN	PROCESSOR VERSION CODE IN HEX
81	(51)	CHARACTER	3	PRDPSERL	PROCESSOR SERIAL NUMBER IN HEX
84	(54)	CHARACTER	2	PRDPMODL	PROCESSOR MODEL NUMBER IN HEX
86	(56)	CHARACTER	2	PRDPCPU@	PHYSICAL CPU ADDRESS IN HEX
88	(58)	CHARACTER	100	PRDTITLE	TITLE FROM DUMP
188	(BC)	CHARACTER	8	PRDDSPB	TIME SYSTEM SET NON-DISPATCHABLE
196	(C4)	CHARACTER	8	PRDDSPE	TIME SYSTEM RESET DISPATCHABLE
204	(CC)	CHARACTER	8	PRDSNAME	SYSTEM NAME
212	(D4)	CHARACTER	12		RESERVED - Aligns PRDSDRSN
224	(E0)	CHARACTER	16	PRDSDRSN	SVC Dump reason code (only for SVC dump captured dumps)
240	(F0)	SIGNED	4	PRDSDBLK	Number of blocks in a captured dump (est. for auto alloc)
244	(F4)	CHARACTER	16	PRDPRODN	Product name
260	(104)	CHARACTER	2	PRDPRODV	Product version
262	(106)	CHARACTER	2	PRDPRODR	Product release
264	(108)	CHARACTER	2	PRDPRODM	Product modification
266	(10A)	CHARACTER	1	PRDPRODD	Product development level
267	(10B)	CHARACTER	1		RESERVED
268	(10C)	CHARACTER	8	PRDBEA	Breaking Event Address Register
276	(114)	CHARACTER	46		RESERVED
322	(142)	SIGNED	2	PRDADSS0	Offset of ADSS
324	(144)	CHARACTER	16	PRDXMP16	16-byte analog of PRDXMPSW
340	(154)	CHARACTER	16	PRDPSW16	16-byte analog of PRDPSW
356	(164)	SIGNED	4	PRDSDFWD	POINTER USED FOR HEADER CHAIN
THE FOLLOWING FIELDS ARE OFFSETS TO OTHER SECTIONS OF THE HEADER ALONG WITH THE LENGTHS. IF THE OFFSET FIELD IS ZERO THEN THE CORRESPONDING SECTION DOES NOT EXIST					
360	(168)	CHARACTER	16	PRDOFSET(0)	OFFSETS
360	(168)	SIGNED	2	PRDSDMPO	OFFSET OF SDUMP/SYSMDUMP COMMON SECTION
362	(16A)	SIGNED	2	PRDSDMPL	LENGTH OF COMMON SECTION
364	(16C)	SIGNED	2	PRDSLIPO	OFFSET OF SLIP SECTION
366	(16E)	SIGNED	2	PRDSLIPL	LENGTH OF SLIP SECTION
368	(170)	SIGNED	2	PRDSYSMO	OFFSET OF SYSMDUMP SECTION
370	(172)	SIGNED	2	PRDSYSML	LENGTH OF SYSMDUMP SECTION

Table 322. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
372	(174)	SIGNED	2	PRDSDWAO	OFFSET OF SDWA FOR THIS DUMP
374	(176)	SIGNED	2	PRDSDWAL	LENGTH OF SDWA
376	(178)	CHARACTER	50	PRDCID	CALLER'S ID
426	(1AA)	SIGNED	2	PRDINTKO	Offset of incident token If 0, no incident token exists

Table 323. Structure PRDSDWA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDSDWA	, SDWA FOR THIS DUMP

Table 324. Structure PRDSDSM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDSDSM	
0	(0)	CHARACTER	4	PRDCVT	VIRTUAL ADDRESS OF CVT
4	(4)	CHARACTER	1	PRDFLG1	Flag byte
		1...		PRDME	"BIT0" ESAME mode
		.1..		PRDVGPRF	"BIT1" 64-bit SVC Dump regs on entry
		.1..		PRDMESET	"BIT1" For SADMP, on if dump was taken by a level of SADMP which sets PRDME
		..1.		PRDLGPRF	"BIT2" 64-bit SLIP regs on entry
		...1		PRDMGPRF	"BIT3" 64-bit SYSMDUMP regs at error
5	(5)	CHARACTER	1		RESERVED
6	(6)	CHARACTER	10	PRDERRID	ERRORID ASSOCIATED WITH DUMP
16	(10)	CHARACTER	44	PRDDSNAM	DSN TO WHICH DUMP WAS TAKEN
60	(3C)	CHARACTER	18	PRDXM(0)	CROSS MEMORY STATUS INFO WHEN SDUMP WAS INVOKED
60	(3C)	CHARACTER	4	PRDCML	ASCB ADDRESS OF CML ASID
64	(40)	CHARACTER	8	PRDXMPSW	PSW WHEN SDUMP WAS INVOKED
72	(48)	SIGNED	2	PRDPASID	PRIMARY ASID
74	(4A)	SIGNED	2	PRDSASID	SECONDARY ASID
76	(4C)	SIGNED	2	PRDHASID	HOME ASID
78	(4E)	SIGNED	2	PRDWASID	SDWA OWNERS ASID
80	(50)	SIGNED	4	PRDSADDR	ADDRESS WHERE SDWA EXISTED
84	(54)	SIGNED	4	PRDTTCH(0)	POINTER TO TRACE TABLE CONTROL HDR
84	(54)	SIGNED	4	PRDPSAAD	If non-zero, the absolute address of an MVS PSA which SADMP used to locate other MVS control blocks.
88	(58)	SIGNED	2	PRDSDPO	OFFSET OF SVC DUMP PARM LIST
90	(5A)	SIGNED	2	PRDSDPL	LENGTH OF SVC DUMP PARM LIST
92	(5C)	SIGNED	2	PRDSDOPO	OFFSET OF SDUMP OPTIONS LIST
94	(5E)	SIGNED	2	PRDSDOPL	LENGTH OF SDUMP OPTIONS LIST
96	(60)	SIGNED	4	PRDTCB	POINTER TO TCB OF TASK WHICH REQUESTED THE DUMP

Table 324. Structure PRDSDSM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
100	(64)	CHARACTER	3	PRDDIDCO	DUMP ID USED FOR MESSAGES AND TO IDENTIFY THE DUMP TO THE OPERATOR
103	(67)	CHARACTER	1		RESERVED
104	(68)	CHARACTER	428	PRDCPUST(0)	CPU STATUS SECTION
104	(68)	CHARACTER	428	PRDREGS(0)	REGISTERS
104	(68)	CHARACTER	32		Unused
136	(88)	CHARACTER	64	PRDGPR	GPR'S UPON ENTERING SDUMP
200	(C8)	CHARACTER	64	PRDCR	Used only in special IPCS code
264	(108)	CHARACTER	8	PRDPSW	CALLERS PSW BEFORE SDUMP
272	(110)	CHARACTER	64	PRDAR	ACCESS REGS UPON ENTERING SDUMP
336	(150)	CHARACTER	128	PRDFPR	FPR'S UPON ENTERING SDUMP
464	(1D0)	CHARACTER	4	PRDFPCR	FPCR
468	(1D4)	CHARACTER	4		RESERVED
472	(1D8)	SIGNED	4	(0)	
472	(1D8)	CHARACTER	64	PRDG64H	G64H UPON ENTERING SDUMP
536	(218)	CHARACTER	128	PRDC64S	ESAME CRs at SDUMP entry
664	(298)	SIGNED	4	PRDCSA	START OF COMMON STORAGE
668	(29C)	SIGNED	4	PRDEPVT	END OF COMMON STORAGE
672	(2A0)	CHARACTER	8	PRDHJOBN	PRDHASID JOBNAME
680	(2A8)	CHARACTER	8	PRDHVSS	START OF HIGH VIRTUAL SHARED AREA
688	(2B0)	CHARACTER	8	PRDHVHP	START OF HIGH VIRTUAL HIGH PRIVATE AREA
696	(2B8)	CHARACTER	8	PRDHVCO	High Virtual Common Origin
704	(2C0)	SIGNED	4	PRDTTCH2	Pointer to the trace table control header of the SNAPTRC which was issued by SDUMP when the system is reset to dispatchable prematurely

Table 325. Structure PRDSDPM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDSDPM	, SDUMP PARM LIST IN BITS

Table 326. Structure PRDSDOPS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDSDOPS	, SDUMP OPTIONS IN BITS

Table 327. Structure PRDSLIP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDSLIP	
0	(0)	CHARACTER	8	PRDSLPSW	PSW WHEN SLIP WAS ENTERED
8	(8)	CHARACTER	8	PRDSLBEA	BEAR when SLIP was Entered
16	(10)	CHARACTER	64	PRDSLGPR	GPR'S WHEN SLIP WAS ENTERED
80	(50)	CHARACTER	64	PRDSLAR	ACCESS REGISTERS WHEN SLIP WAS ENTERED

Table 327. Structure PRDSLIP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
144	(90)	CHARACTER	64	(0)	Was PRDSLCR
144	(90)	DBL WORD	8	PRDSLPC3	CONTROL REG 3
152	(98)	DBL WORD	8	PRDSLPC4	CONTROL REG 4
160	(A0)	CHARACTER	16	PRDSLP16	16-byte PSW
176	(B0)	CHARACTER	32		Reserved
208	(D0)	CHARACTER	64	PRDSLG6H	High halves of GPRs when SLIP was entered
272	(110)	CHARACTER	128	PRDSLC64	ESAME CRs when SLIP WAS ENTERED

Table 328. Structure PRDSYSMD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDSYSMD	
0	(0)	CHARACTER	4	PRDSMABD	ABEND CODE FOR THE ERROR
4	(4)	CHARACTER	8	PRDSMPSW	PSW AT ENTRY TO ABEND
12	(C)	CHARACTER	8	PRDSMLMN	NAME OF ACTIVE LOAD MODULE AT TIME OF ERROR
20	(14)	SIGNED	4	PRDSMLMA	@ OF ACTIVE LOAD MODULE
24	(18)	SIGNED	4	PRDSMLMO	OFFSET INTO ACTIVE LOAD MODULE POINTED TO BY PSW
28	(1C)	CHARACTER	12	PRDSMPDA	DATA AT PSW @ (6+ 6-)
40	(28)	CHARACTER	64	PRDSMGPR	GPR'S AT TIME OF ERROR
104	(68)	CHARACTER	4	PRDSMRSN	REASON CODE FOR THE ERROR
108	(6C)	CHARACTER	64	PRDSMAR	AR'S AT TIME OF ERROR
172	(AC)	CHARACTER	8	PRDSMBEA	BEAR AT TIME OF ERROR
180	(B4)	CHARACTER	40		Unused
220	(DC)	CHARACTER	16	PRDSMPSW16	PSW AT ENTRY TO ABEND
236	(EC)	CHARACTER	64	PRDSMG6H	High halves of GPRs at time of error
300	(12C)	CHARACTER	128	PRDSMC64	ESAME CRs

Table 329. Structure PRDINTKD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDINTKD	
0	(0)	CHARACTER	32	PRDINTKN	Incident token

Table 330. Structure PRDINPUT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDINPUT	
64	(40)	SIGNED	4	PRDCPURC(0)	
64	(40)	CHARACTER	4096	PRDSTATS(0)	STORE STATUS DATA.
64	(40)	CHARACTER	212		PAD.
276	(114)	ADDRESS	4	PRDXADDR	EXTENDED-SAVE-AREA ADDRESS
280	(118)	CHARACTER	296	PRDSTST(0)	STORE STATUS DATA
280	(118)	CHARACTER	40	PRDSTST1(0)	
280	(118)	CHARACTER	8	PRDTIMER	CPU TIMER.
288	(120)	CHARACTER	8	PRDCLKCP	CPU CLOCK COMPARATOR.

Table 330. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
296	(128)	CHARACTER	24		PAD.
320	(140)	CHARACTER	256	PRDSTST2(0)	
320	(140)	CHARACTER	8	PRDPSW2	CURRENT PSW.
328	(148)	SIGNED	4	PRDPSA	PREFIX VALUE.
332	(14C)	CHARACTER	4	PRDMDF	MODEL DEPENDENT FIELD.
336	(150)	CHARACTER	4	PRDSIGPS	SENSE INFORMATION RETURNED WHEN THE SIGP STOP AND STORE STATUS ORDER IN AMDSADIP FAILED
340	(154)	CHARACTER	4	PRDSIGP2	STATUS INFORMATION RETURNED WHEN THE SIGP STOP AND STORE STATUS ORDER IN AMDSACPU FAILED
344	(158)	CHARACTER	8		PAD.
352	(160)	CHARACTER	64	PRDARSA(0)	ACCESS REGISTERS SAVE AREA
352	(160)	CHARACTER	4	PRDAREGS(16)	ACCESS REGISTERS 0-15.
416	(1A0)	CHARACTER	32	PRDFPRSA(0)	FLOATING POINT REGISTERS SAVE AREA
416	(1A0)	CHARACTER	8	PRDFLPT(4)	FLOATING POINT REGISTERS 0,2,4,6
448	(1C0)	CHARACTER	64	PRDGPRSA(0)	GENERAL PURPOSE REGISTERS SAVE AREA
448	(1C0)	CHARACTER	4	PRDGREGS(16)	GENERAL PURPOSE REGISTERS 0-15.
512	(200)	CHARACTER	64	PRDCRSA(0)	CONTROL REGISTERS SAVE AREA
512	(200)	CHARACTER	4	PRDCTL(16)	CONTROL REGISTERS 0-15.
576	(240)	CHARACTER	256	PRDSTSTX(0)	EXTENDED STATUS DATA.
576	(240)	CHARACTER	16		PAD.
592	(250)	CHARACTER	4	PRDFPCTL	FLOATING POINT CONTROL.
596	(254)	CHARACTER	108		PAD.
704	(2C0)	CHARACTER	128	PRDFPRSX(0)	FLOATING POINT REGISTER SAVE AREA (EXTENDED)
704	(2C0)	CHARACTER	8	PRDFLPTX(16)	FLOATING POINT REGISTERS 0-15.
832	(340)	CHARACTER	3328		PAD.

Table 331. Structure PRDINPUT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDINPUT	
64	(40)	CHARACTER	4096	PRXSTATS(0)	ESAME STORE STATUS DATA.
64	(40)	CHARACTER	448		PAD.
512	(200)	CHARACTER	64	(0)	Reserved for programming
512	(200)	CHARACTER	16	PRXRELPSW	Related PSW
528	(210)	BITSTRING	1	PRXFLAGS	Flags
		1...		PRXRELPSWVALID	"X'80'" PrxRelPsw contains a PSW
		.1..		PRXPSWFROMLSCA	"X'40'" 0 - PrxPsw is from store status, and PrxRelPsw is from LSCA. 1- PrxPsw is from LSCA, and PrxRelPsw is from store status. SADMP puts what it thinks is the more relevant PSW into PrxPsw.
529	(211)	CHARACTER	47		Reserved
576	(240)	CHARACTER	512	PRXSTST(0)	
576	(240)	CHARACTER	256	PRXSTST1(0)	

Table 331. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
576	(240)	CHARACTER	128	PRXFPRSA(0)	FLOATING POINT REGISTER SAVE AREA.
576	(240)	CHARACTER	8	PRXFLPTR(16)	FLOATING POINT REGISTERS 0-15.
704	(2C0)	CHARACTER	128	PRXGPRSA(0)	GENERAL PURPOSE REGISTERS SAVE AREA.
704	(2C0)	CHARACTER	8	PRXGREGS(16)	GENERAL PURPOSE REGISTERS 0-15.
832	(340)	CHARACTER	256	PRXSTST2(0)	
832	(340)	CHARACTER	16	PRXPSW	CURRENT PSW.
848	(350)	CHARACTER	1	PRXARCID	ARCHITECTURE ID.
		1		PRXESAME	"X'01'"
849	(351)	CHARACTER	3		PAD.
852	(354)	CHARACTER	4	PRXSIGPS	SIGP SENSE INFORMATION.
856	(358)	CHARACTER	4	PRXPSA	PREFIX VALUE.
860	(35C)	CHARACTER	4	PRXFPCTL	FLOATING POINT CONTROL.
864	(360)	CHARACTER	8	PRXTIMER	CPU TIMER.
872	(368)	CHARACTER	8	PRXCLKCP	CPU CLOCK COMPARATOR.
880	(370)	CHARACTER	16		PAD.
896	(380)	CHARACTER	64	PRXARSA(0)	ACCESS REGISTER SAVE AREA.
896	(380)	CHARACTER	4	PRXAREGS(16)	ACCESS REGISTERS 0-15.
960	(3C0)	CHARACTER	128	PRXCRSA(0)	CONTROL REGISTERS SAVE AREA.
960	(3C0)	CHARACTER	8	PRXCTL(16)	CONTROL REGISTERS 0-15.
1088	(440)	CHARACTER	512	PRXZ1	
1600	(640)	CHARACTER	2560		PAD.

Table 332. Structure IATB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IATB	INSTRUCTION ADDRESS TRACE BUFFER.
0	(0)	CHARACTER	160	IATBFRN(0)	FRONT DATA.
0	(0)	CHARACTER	6	IATBTM1	BYTES 0-5 OF THE TOD CLOCK ASSOCIATED WITH THE SPECIFIED CPU WHEN THE TRACE WAS LAST ACTIVATED.
6	(6)	CHARACTER	2		RESERVED.
8	(8)	CHARACTER	8	IATBPSW(0)	PSW.
8	(8)	CHARACTER	4	IATBPSW1	PSW FIRST WORD.
12	(C)	CHARACTER	4	IATBPSW2	PSW SECOND WORD.
16	(10)	CHARACTER	4	IATBGPR(16)	GENERAL PURPOSE REGISTERS 0-15.
80	(50)	CHARACTER	4	IATBCR(16)	CONTROL REGISTERS 0-15.
144	(90)	CHARACTER	6		RESERVED - ZEROS.
150	(96)	CHARACTER	1	IATBTFM	TIMESTAMP FORMAT ('02'X).
151	(97)	CHARACTER	1		RESERVED - ZERO.
152	(98)	CHARACTER	2	IATBICN	NUMBER OF INSTRUCTION ADDRESS TRACE ENTRIES RECORDED.
154	(9A)	CHARACTER	6		RESERVED.
160	(A0)	CHARACTER	4	IATBCTR(214)	INSTRUCTION ADDRESS TRACE ENTRIES (MAXIMUM NUMBER OF ENTRIES IS 982, EACH ENTRY IS FOUR BYTES LONG).

BLSRPRD mapping

Table 333. Structure PRDINPUT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDINPUT	
PRINT DUMP SYMPTOM AREA FORMAT THIS AREA IS DEFINED ON PRDSR WHICH BEGINS 2048 INTO THE HEADER RECORD BUILT BY SDUMP. THERE IS A REQUIREMENT THAT THE SYMPTOM STRING HEADER RECORD BEGIN AT THAT OFFSET.					
2112	(840)	CHARACTER	2048	PRDSR(0)	PRINT DUMP SYMTOM RECORD AREA
2112	(840)	CHARACTER	2	SR	'SR' SYMPTOM AREA ID
2112	(840)	X'E2D9'	0	SRECID	"C'SR'" 'SR' IDENTIFIER
2114	(842)	CHARACTER	40		RESERVED FOR FUTURE USE
2154	(86A)	CHARACTER	9	SRID	SYSTEM IDENTIFIER (DERIVED FROM FESN SYSTEM IDENTIFIER) OS/VS2(MVS) C'5752 '
2163	(873)	CHARACTER	5		RESERVED FOR FUTURE USE
2168	(878)	CHARACTER	8	SRDTYPE	TYPE OF DUMP, SUCH AS C'SVC DUMP'
2176	(880)	CHARACTER	8		RESERVED FOR FUTURE USE
2184	(888)	SIGNED	2	SRSLEN	LENGTH OF BASIC SYSTEM STRING IN SYSTEM DATA BASE (SDB) FORMAT FOR APARS
2186	(88A)	SIGNED	2	SRSOFF	OFFSET TO BASIC SYMPTOM STRING
2188	(88C)	SIGNED	2	SROLEN1	LENGTH OF OPTIONAL SYMPTOM STRING IN SDB FMT
2190	(88E)	SIGNED	2	SROFF1	OFFSET TO OPTIONAL SYMPTOM STRING IN SDB FORMAT
2192	(890)	SIGNED	2	SROLEN2	LENGTH OF OPTIONAL SYMP STRING 2, MAY OR MAY NOT BE IN SDB FORMAT. MAY BE CLUES THAT ARE NOT REPEATABLE, SO THEY MAY NOT BE USEFUL FOR DUPLICATE PROBLEM RECOGNITION
2194	(892)	SIGNED	2	SROFF2	OFFSET TO OPTIONAL SYMPTOM STRING 2
2196	(894)	SIGNED	2	SRLENCS	LENGTH OF COMPONENT SYMPTOM AREA. ZERO IF NOT SUPPLIED.
2198	(896)	SIGNED	2	SROFFCS	OFFSET TO COMPONENT SYMPTOM AREA. ZERO IF NOT IN SYMPTOM AREA. SRADDRCS CAN BE SUPPLIED IF THIS FIELD IS ZERO.
2200	(898)	SIGNED	4	SRADDRCS	VIRTUAL ADDRESS OF COMPONENT SYMPTOM AREA
2204	(89C)	CHARACTER	4	SRASID	SYSTEM DEPENDENT FIELD (ASID FOR MVS)
2208	(8A0)	CHARACTER	16		RESERVED FOR FUTURE USE
2224	(8B0)	SIGNED	4	SRHDEND(0)	END OF HEADER RECORD
2224	(8B0)	CHARACTER	112	SRBASIC(0)	BASIC SYMPTOM STRING
2224	(8B0)	CHARACTER	8	SRABD	ABEND CODE IN SDB FORMAT EX. AB/SC0D
2232	(8B8)	CHARACTER	16	SRRC	REASON CODE (IF EXISTS) EX. PRCS/1C08
2248	(8C8)	CHARACTER	16	SRCID	COMPONENT ID EX. PIDS/5752SC1C3
2264	(8D8)	CHARACTER	16	SRLM	LOAD MODULE NAME EX.RIDS/IECIOSAM#L
2280	(8E8)	CHARACTER	16	SRCSECT	CSECT NAME EX. RIDS/IECIOSCN

Table 333. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2296	(8F8)	CHARACTER	16	SRFRR	RECOVERY ROUTINE NAME EX.RIDS/IECIOFRR#R
2312	(908)	CHARACTER	24	SREGPSW	REGISTER/PSW DIFFERENCES EX. REGS/0C01B REGS/FFFFF
2336	(920)	SIGNED	4	SRBASEND(0)	END OF BASIC SYMPTOM STRING
2336	(920)	CHARACTER	1	SROPT1(0)	OPTIONAL STRING 1 STRING - SDB FMT
2336	(920)	SIGNED	4	SROP1END(0)	END OF OPTIONAL STRING 1
2336	(920)	CHARACTER	84	SROPT2(0)	OPTIONAL STRING 2 STRING 2 - NON-SDB
2336	(920)	CHARACTER	16	SRPGM	ABENDING PROGRAM NAME EX. PGM=IEFBR14
2352	(930)	CHARACTER	24	SRLVL	ASSEMBLY MODULE LEVEL EX. MODLVL=09/10/80UZ19271
2376	(948)	CHARACTER	28	SRSC	COMPONENT/SUBCOMPONENT/ SUBFUNCTION DESCRIPTION EX. SC=IOS-EXCP
2404	(964)	CHARACTER	16	SRRRL	RECOVERY ROUTINE LABEL EX. RRL=ESTAERTN
2420	(974)	SIGNED	4	SROP2END(0)	END OF OPTIONAL STRING 2

Table 334. Structure ADSSRCRS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ADSSRCRS	PRIMARY SYMPTOM STRING, RETAIN X FORMAT
0	(0)	CHARACTER	150	RETANPSS	RETAIN FORMAT PRIMARY SYMPTOM STRING. THIS MUST END WITH AT LEAST ONE BLANK.

Table 335. Structure ADSSRCSS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ADSSRCSS	SECONDARY SYMPTOM STRING
0	(0)	CHARACTER	1	RETANSSS(0)	RETAIN FORMAT SECONDARY SYMPTOM STRING. THIS MUST END WITH AT LEAST ONE BLANK.

Table 336. Structure ADSSRNSD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ADSSRNSD	OPTIONAL SYMPTOM DATA, NONRETAIN FORMAT
0	(0)	CHARACTER	291	ADSSDAE(0)	DUMP ANALYSIS AND ELIMINATION (DAE) SECTION
0	(0)	CHARACTER	2	DAESSHDR(0)	HEADER TO MVS FORMAT SYMPTOM STRING
0	(0)	CHARACTER	1	DAESSHT	DATA TYPE. 'F0'X FOR PRINTABLE
1	(1)	SIGNED	1	DAESSHL	DATA LENGTH EQUAL TO LENGTH(DAESSMVS)
2	(2)	CHARACTER	150	DAESSMVS	MVS FORMAT SYMPTOM STRING

Table 336. Structure ADSSRNSD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
152	(98)	CHARACTER	2	DAENSHDR(0)	HEADER TO NONSYMPTOM STRING DATA
152	(98)	CHARACTER	1	DAENSHT	DATA TYPE. 'FF'X FOR NONPRINTABLE
153	(99)	BITSTRING	1	DAENSHL	DATA LENGTH EQUAL TO LENGTH(DAEDATA)
154	(9A)	CHARACTER	137	DAEDATA(0)	NONSYMPTOM STRING DATA
154	(9A)	CHARACTER	4	DAELVL	DAE LEVEL WHICH CREATED THIS DATA. (ACRONYM AND VERSION NUMBER FROM ADYDFLM).
158	(9E)	CHARACTER	84	DAECRIT(0)	CRITERIA FOR SYMPTOM STRING TO BE CONSIDERED AS A UNIQUE IDENTIFIER BY DAE
158	(9E)	SIGNED	2	DAEMINC	MINIMUM NUMBER OF SYMPTOMS IN THE SYMPTOM STRING FOR IT TO BE CONSIDERED UNIQUE.
160	(A0)	SIGNED	2	DAEMINL	MINIMUM LENGTH OF THE SYMPTOM STRING TO BE CONSIDERED UNIQUE.
162	(A2)	CHARACTER	40	DAEREQ	KEYS REQUIRED FOR MATCHING
202	(CA)	CHARACTER	40	DAEOPT	KEYS WHICH ARE OPTIONAL
242	(F2)	CHARACTER	4	DAESSACT(0)	ACTUAL VALUES USED TO DETERMINE IF THE SYMPTOM STRING MAY BE CONSIDERED UNIQUE.
242	(F2)	SIGNED	2	DAESLN	ACTUAL NUMBER OF BYTES OF UNIQUE.
244	(F4)	SIGNED	2	DAESCNT	ACTUAL COUNT OF THE NUMBER OF SYMPTOM STRINGS TO BE CONSIDERED UNIQUE.
246	(F6)	CHARACTER	8	DAESTAT	ADYDSTAT
254	(FE)	CHARACTER	6		RESERVED FOR EXPANSION OF DAESTAT
260	(104)	CHARACTER	21	DAEORIG(0)	IDENTIFICATION OF THE ORIGINAL OCCURRENCE OF THIS PROBLEM
260	(104)	CHARACTER	10	DAEERID(0)	ERROR ID
260	(104)	SIGNED	2	DAEERSEQ	ERROR ID SEQUENCE NUMBER
262	(106)	SIGNED	2	DAEERCPU	ERROR ID CPU ID
264	(108)	SIGNED	2	DAEERAS	ERROR ID ADDRESS SPACE ID
266	(10A)	SIGNED	4	DAETIME	ORIGINAL TIME-(BINARY NUMBER TENTHS OF A SECOND SINCE MIDNIGHT.)
270	(10E)		4	DAEDATE	ORIGINAL DATE (PACKED DECIMAL JULIAN-00YYDDDF)
274	(112)	CHARACTER	6	DAECPUO	CPUID FROM STIDP INSTRUCTION
280	(118)	BITSTRING	1	DAEFLG	FLAGS
		1...		DAESVCD	"BIT0" AN SVC DUMP CREATED THE ORIGINAL DOCUMENTATION
		.1..		DAESYSMD	"BIT1" A SYSMDUMP CREATED THE ORIGINAL DOCUMENTATION
		..1.		DAETRUM	"BIT2" ORIGINAL MVS SYMPTOM STRING WAS TRUNCATED
		...1		DAERCDA	"BIT3" Entry was recorded because of RECORDALL
281	(119)	CHARACTER	10	DAECURR(0)	IDENTIFICATION OF THE CURRENT PROBLEM

Table 336. Structure ADSSRNSD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
281	(119)	SIGNED	4	DAEDTIM	TIME OF CURRENT PROBLEM (BINARY NUMBER, TENTHS OF A SECOND SINCE MIDNIGHT
285	(11D)		4	DAEDDAT	DATE OF CURRENT PROBLEM (PACKED DECIMAL JULIAN-00YYDDDF)
289	(121)	SIGNED	2	DAEDCNT	NUMBER OF OCCURRENCES
291	(123)	CHARACTER	8	DAESNAMO	SYSNAME - ORIGINAL
299	(12B)	CHARACTER	8	DAESNAML	SYSNAME - LAST OCCUR
	CONSTANT VALUES FOR VARIABLE DATA AREAS				
	1111	1111		ADSSTPNP	"X'FF'" DATA TYPE IS NOT PRINTABLE
	1111	....		ADSSTPPR	"X'F0'" DATA TYPE IS PRINTABLE
299	(12B)	X'F'	0	SRSYMML	"15" SYMPTOM MAXIMUM LENGTH

Table 337. Cross Reference for BLSRPRD

Name	Offset	Hex Tag
ADSSDAE	0	
ADSSRCRS	0	
ADSSRCSS	0	
ADSSRNSD	0	
ADSSTPNP	12B	FF
ADSSTPPR	12B	F0
BIT0	0	80
BIT1	0	40
BIT2	0	20
BIT3	0	10
BIT4	0	8
BIT5	0	4
BIT6	0	2
BIT7	0	1
DAECPUO	112	
DAECRIT	9E	
DAECURR	119	
DAEDATA	9A	
DAEDATE	10E	
DAEDCNT	121	
DAEDDAT	11D	
DAEDTIM	119	
DAEERAS	108	
DAEERCPU	106	
DAEERID	104	
DAEERSEQ	104	
DAEFLG	118	
DAELVL	9A	
DAEMINC	9E	
DAEMINL	A0	
DAENSHDR	98	
DAENSHL	99	

Table 337. Cross Reference for BLSRPRD (continued)

Name	Offset	Hex Tag
DAENSHT	98	
DAEOPT	CA	
DAEORIG	104	
DAERCDA	118	10
DAEREQ	A2	
DAESCNT	F4	
DAESLN	F2	
DAESNAML	12B	
DAESNAMO	123	
DAESSACT	F2	
DAESSHDR	0	
DAESSHL	1	
DAESSHT	0	
DAESSMVS	2	
DAESTAT	F6	
DAESVCD	118	80
DAESYSMD	118	40
DAETIME	10A	
DAETRUM	118	20
IATB	0	
IATBCR	50	
IATBCTR	A0	
IATBFRN	0	
IATBGPR	10	
IATBICN	98	
IATBPSW	8	
IATBPSW1	8	
IATBPSW2	C	
IATBTFM	96	
IATBTM1	0	
PRD	0	
PRDAAF	2A	40
PRDAAP	2C	
PRDADSS0	142	
PRDAR	110	
PRDAREGS	160	
PRDARSA	160	
PRDAS	4	
PRDASC	C	
PRDASH	6	0
PRDAST	4	
PRDASTE	2C	
PRDAS0	4	
PRDAS1	8	
PRDAS2	C	
PRDAS3	10	0
PRDAS9	14	
PRDBEA	10C	
PRDBFP	24	10

Table 337. Cross Reference for BLSRPRD (continued)

Name	Offset	Hex Tag
PRDBFPH	24	4
PRDBFPV	24	8
PRDBLSDP	24	5
PRDCID	178	
PRDCLKCP	120	
PRDCML	3C	
PRDCOMM	2A	80
PRDCPU	50	
PRDCPURC	40	
PRDCPUST	68	
PRDCR	C8	
PRDCRSA	200	
PRDCSA	298	
PRDCTL	200	
PRDCVT	0	
PRDC64S	218	
PRDDATA	40	
PRDDIDCO	64	
PRDDSNAM	10	
PRDDSPB	BC	
PRDDSPE	C4	
PRDDUMPT	24	
PRDEPVT	29C	
PRDERRID	6	
PRDESAME	24	1
PRDFLAGS	24	
PRDFLG1	4	
PRDFLPT	1A0	
PRDFLPTX	2C0	
PRDFPCR	1D0	
PRDFPCTL	250	
PRDFPR	150	
PRDFPRSA	1A0	
PRDFPRSX	2C0	
PRDGPR	88	
PRDGPRSA	1C0	
PRDGPRVL	24	20
PRDGREGS	1C0	
PRDG64H	1D8	
PRDHASID	4C	
PRDHJOBN	2A0	
PRDHVCO	2B8	
PRDHVHP	2B0	
PRDHVSS	2A8	
PRDID	0	
PRDIDC	0	C4D9
PRDIDCV	0	C4D9
PRDIDV	2	F1
PRDIDV31	2	F1

Table 337. Cross Reference for BLSRPRD (continued)

Name	Offset	Hex Tag
PRDIDV64	2	F2
PRDINPUT	0	
PRDINPUT	0	
PRDINPUT	0	
PRDINPUT	0	
PRDINPUT	0	
PRDINPUTLENGTH	0	1040
PRDINTKD	0	
PRDINTKN	0	
PRDINTKO	1AA	
PRDKEY	24	
PRDKEYA	24	F0
PRDKEYC	24	2
PRDKEYF	24	8
PRDKEYQ	24	FF
PRDKEYR	24	4
PRDKEYU	24	6
PRDLAD	14	
PRDLEN	3	
PRDLGPRF	4	20
PRDMDF	14C	
PRDME	4	80
PRDMESET	4	40
PRDMGPRF	4	10
PRDMODNM	40	
PRDOFSET	168	
PRDPASID	48	
PRDPCPU@	56	
PRDPMODL	54	
PRDPREF	0	
PRDPRODD	10A	
PRDPRODM	108	
PRDPRODN	F4	
PRDPRODR	106	
PRDPRODV	104	
PRDPSA	148	
PRDPSAAD	54	
PRDPSERL	51	
PRDPSW	108	
PRDPSW16	154	
PRDPSW2	140	
PRDPVRSN	50	
PRDREGS	68	
PRDSADDR	50	
PRDSADP	24	1
PRDSASID	4A	
PRDSDBLK	F0	
PRDSDFWD	164	
PRDSDMPL	16A	

Table 337. Cross Reference for BLSRPRD (continued)

Name	Offset	Hex Tag
PRDSDMPO	168	
PRDSDOPL	5E	
PRDSDOPO	5C	
PRDSDOPS	0	
PRDSDPL	5A	
PRDSDPM	0	
PRDSDPO	58	
PRDSDRSN	E0	
PRDSDSM	0	
PRDSDWA	0	
PRDSDWAL	176	
PRDSDWAO	174	
PRDSEQ	18	0
PRDSHARE	2A	20
PRDSIGPF	24	40
PRDSIGPS	150	
PRDSIGP2	154	
PRDSIZ	0	40
PRDSLAR	50	
PRDSLBEA	8	
PRDSLC64	110	
PRDSLGPR	10	
PRDSLG6H	D0	
PRDSLIP	0	
PRDSLIPL	16E	
PRDSLIPO	16C	
PRDSLPC3	90	
PRDSLPC4	98	
PRDSLPDP	24	4
PRDSLPSW	0	
PRDSLP16	A0	
PRDSMABD	0	
PRDSMAR	6C	
PRDSMBEA	AC	
PRDSMC64	12C	
PRDSMDP	24	3
PRDSMGPR	28	
PRDSMG6H	EC	
PRDSMLMA	14	
PRDSMLMN	C	
PRDSMLMO	18	
PRDSMPDA	1C	
PRDSMPSW	4	
PRDSMPSW16	DC	
PRDSMRSN	68	
PRDSNAME	CC	
PRDSR	840	
PRDSSINV	24	80
PRDSTATS	40	

Table 337. Cross Reference for BLSRPRD (continued)

Name	Offset	Hex Tag
PRDSTOKN	30	
PRDSTST	118	
PRDSTSTX	240	
PRDSTST1	118	
PRDSTST2	140	
PRDSTYP	2A	
PRDSVCDP	24	2
PRDSYSMD	0	
PRDSYSML	172	
PRDSYSMO	170	
PRDTCB	60	
PRDTIMER	118	
PRDTITLE	58	
PRDTODVL	48	
PRDTTCH	54	
PRDTTCH2	2C0	
PRDTYPD	24	0
PRDTYPS	2A	
PRDVGPRF	4	40
PRDWASID	4E	
PRDXADDR	114	
PRDXM	3C	
PRDXMPSW	40	
PRDXMP16	144	
PRDZARCH	24	1
PRDZ1V	24	2
PRD64	0	
PRD64AAF	2A	40
PRD64AAP	2C	
PRD64AS	4	
PRD64ASC	C	
PRD64ASH	6	0
PRD64AST	4	
PRD64AS0	4	
PRD64AS1	8	
PRD64AS2	C	
PRD64AS3	10	0
PRD64AS9	14	
PRD64BFP	24	10
PRD64BFPH	24	4
PRD64BFPV	24	8
PRD64BLSDP	24	5
PRD64COMM	2A	80
PRD64DUMPT	24	
PRD64ESAME	24	1
PRD64FLAGS	24	
PRD64GPRVL	24	20
PRD64ID	0	
PRD64IDC	0	C4D9

Table 337. Cross Reference for BLSRPRD (continued)

Name	Offset	Hex Tag
PRD64IDCV	0	C4D9
PRD64IDV	2	F2
PRD64IDV31	2	F1
PRD64IDV64	2	F2
PRD64KEY	24	
PRD64KEYA	24	F0
PRD64KEYC	24	2
PRD64KEYF	24	8
PRD64KEYQ	24	FF
PRD64KEYR	24	4
PRD64KEYU	24	6
PRD64LAD	14	0
PRD64LEN	3	
PRD64MAXMSN	23	FF
PRD64MSN	22	
PRD64PHASE	23	
PRD64PHASESADMPA	23	1
PRD64PHASESADMPB	23	2
PRD64PHASESADMPC	23	3
PRD64PHASESADMPIN	23	7
PRD64PHASESADMPMINI	23	5
PRD64PHASESADMPMINO	23	9
PRD64PHASESADMPPAGED	23	B
PRD64PHASESADMPPFT	23	4
PRD64PHASESADMPRSRV	23	D
PRD64PHASESADMPSUMI	23	6
PRD64PHASESADMPSUMO	23	A
PRD64PHASESADMPSWAP	23	C
PRD64PHASESADMPUSED	23	8
PRD64PHASE0	23	0
PRD64SADP	24	1
PRD64SEQ	1C	0
PRD64SHARE	2A	20
PRD64SIGPF	24	40
PRD64SIZ	0	40
PRD64SLPDP	24	4
PRD64SMDP	24	3
PRD64SSINV	24	80
PRD64STYP	2A	
PRD64SVCDP	24	2
PRD64TYPD	24	0
PRD64TYPS	2A	
PRD64ZARCH	24	1
PRD64Z1V	24	2
PRD64999	40	
PRD999	40	
PRXARCID	350	
PRXAREGS	380	
PRXARSA	380	

Table 337. Cross Reference for BLSRPRD (continued)

Name	Offset	Hex Tag
PRXCLKCP	368	
PRXCRSA	3C0	
PRXCTL	3C0	
PRXESAME	350	1
PRXFLAGS	210	
PRXFLPTR	240	
PRXFPCTL	35C	
PRXFPRSA	240	
PRXGPRSA	2C0	
PRXGREGS	2C0	
PRXPSA	358	
PRXPSW	340	
PRXPSWFROMLSCA	210	40
PRXRELPSW	200	
PRXRELPSWVALID	210	80
PRXSIGPS	354	
PRXSTATS	40	
PRXSTST	240	
PRXSTST1	240	
PRXSTST2	340	
PRXTIMER	360	
PRXZ1	440	
RETANPSS	0	
RETANSSS	0	
SR	840	
SRABD	8B0	
SRADDRCS	898	
SRASID	89C	
SRBASEND	920	
SRBASIC	8B0	
SRCID	8C8	
SRCSECT	8E8	
SRDTYPE	878	
SRECID	840	E2D9
SREGPSW	908	
SRFRR	8F8	
SRHDEND	8B0	
SRID	86A	
SRLENCS	894	
SRLM	8D8	
SRLVL	930	
SROFFCS	896	
SROFF1	88E	
SROFF2	892	
SROLEN1	88C	
SROLEN2	890	
SROPT1	920	
SROPT2	920	
SROP1END	920	

Table 337. Cross Reference for BLSRPRD (continued)

Name	Offset	Hex Tag
SROP2END	974	
SRPGM	920	
SRRC	8B8	
SRRRL	964	
SRSC	948	
SRSLEN	888	
SRSOFF	88A	
SRSYMML	12B	F
ZZZASTA	4	C140
ZZZASTBL	4	C2D3
ZZZASTBS	4	C2E2
ZZZASTBT	4	C2E3
ZZZASTC	4	C340
ZZZASTCE	4	C3C5
ZZZASTCR	4	C3D9
ZZZASTCT	4	C3E3
ZZZASTCV	4	C3E5
ZZZASTDS	4	C4E2
ZZZASTH	4	C840
ZZZASTLI	4	D3C9
ZZZASTNO	4	4040
ZZZASTSB	4	E2C2
ZZZASTSC	4	E2C3
ZZZASTSD	4	E2C4
ZZZASTSS	4	E2E2
ZZZASTSV	4	E2E5

Chapter 68. BLSRPWHS Information

BLSRPWHS Programming Interface Information

BLSRPWHS is a programming interface.

BLSRPWHS Heading Information

Common Name:	IPCS Symbol Table Record
Macro ID:	BLSRPWHS
DSECT Name:	Selected by invoker
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	PWHS Offset: 0 Length: 4
Storage Attributes:	Main Storage: No Virtual Storage: No Auxiliary Storage: Yes Subpool: Any that may be altered by key 8 programs Key: 8 Data Space: No Residency: LOC(ANY,ANY)
Size:	ABITS=31: 222 bytes ABITS=64: 240 bytes
Created by:	IPCS subcommands concerned with debugging
Pointed to by:	Parameter lists used by IPCS programs to describe a location of interest as input to the IPCS Where service and a block that contains it on successful return from that service.
Serialization:	None
Function:	Describe the input to and the output from the WHERE service. OPERATION = Create a mapping for BLSRPWHS

BLSRPWHS mapping

Table 338. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'80'	0	BIT0	"128"
0	(0)	X'40'	0	BIT1	"64"
0	(0)	X'20'	0	BIT2	"32"
0	(0)	X'10'	0	BIT3	"16"
0	(0)	X'8'	0	BIT4	"8"
0	(0)	X'4'	0	BIT5	"4"
0	(0)	X'2'	0	BIT6	"2"
0	(0)	X'1'	0	BIT7	"1"

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BLSRPWHS mapping

Table 339. Structure WH31

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	WH31	, WHERE service parameter list
0	(0)	DBL WORD	8	WH31000(0)	Begin BLSRPWHS #MD06207
A WHERE service parameter list defines the input to and the output from the WHERE service.					
0	(0)	CHARACTER	5	WH31ID(0)	Control block identifier
0	(0)	CHARACTER	4	WH31IDC	Control block acronym
4	(4)	CHARACTER	1	WH31IDL	Control block level indicator
4	(4)	X'F1'	0	WH31IDL31	"C'1'" ABITS=31
4	(4)	X'F2'	0	WH31IDL64	"C'2'" ABITS=64
5	(5)	BITSTRING	3	WH31PFLG(0)	Processing flags
5	(5)	BITSTRING	1	WH31PFL1	First byte of flags
		1...		WH31PUT	"BIT0" Generate output using the print service
		.1..		WH31RETN	"BIT1" Return nonstandard module name
		..11 1...		WH31DTYF	"BIT2+BIT3+BIT4" Data type code selectors. All bits off or on select all types
		..1.		WH31DTYFL	"BIT2" MODULE selector
		...1		WH31DTYFM	"BIT3" STRUCTURE selector
		.... 1...		WH31DTYFU	"BIT4" AREA selector
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	8	WH31MODN	Name of module requesting the service
An IPCS address space is specified by three values: (1) A two-character code identifying the type of address space: - Letter code A indicates that the file contains an MVS high-speed dump and that absolute main storage of the dumped system is being referenced (ABSOLUTE) - Code BL indicates that a physical block in a file is being referenced using a relative block number (BLOCK) - Code BS indicates that a relative byte address group in the file is being referenced (RBA) - Code BT indicates that a physical block in a file is being referenced using a relative track address (TTR) - Letter code C indicates that the file contains an MVS high-speed dump and that the CPU status data for one dumped CPU is being referenced (CPU STATUS) - Code CE indicates that the file contains an MVS high-speed dump and that vector registers for one CPU are being referenced (CPU DOMAIN(VECTOR)) - Code CR indicates that the file contains an MVS high-speed dump and that real main storage seen by one CPU is being referenced (CPU REAL) - Code CT indicates that the file contains an MVS high-speed dump and that a console loop trace for one CPU is being referenced (CPU DOMAIN(CPUTRACE)) - Code CV indicates that the file contains an MVS high-speed dump and that virtual main storage seen by one MVS address space dispatched on a designated CPU is being referenced (CPU ASID) - Code DS indicates that the file contains an MVS high-speed dump and that a data space is being referenced (ASID DSPNAME) - Letter code H indicates that the file contains an MVS					

Table 339. Structure WH31 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		high-speed dump and that the header data for the dump is being referenced (HEADER) - Code LI refers to a literal value associated with a symbol (LITERAL) - Code SB indicates that the file contains an MVS high-speed dump and that the SDUMP 4K buffer is being referenced (DOMAIN(SDUMPBUFFER)) - Code SC indicates that the file contains an MVS high-speed dump and that component data is being referenced (COMPDATA) - Code SD indicates that the file contains an MVS high-speed dump and that the SDUMP summary dump records are being referenced (DOMAIN(SUMDUMP)) - Code SS indicates that the file contains an MVS high-speed dump and that the portion of a data space represented in summary dump records is being referenced (ASID DSPNAME SUMDUMP) - Code SV indicates that the file contains an MVS high-speed dump and that the portion of one MVS address space represented in summary dump records is being referenced (ASID SUMDUMP) (2) A binary integer whose interpretation depends on the preceding code: - For code BL this integer should be the relative block number - For code BS this integer should be the relative byte address group number - For code BT this integer should be the relative track address - For codes DS and SS this integer contains the address space identification (ASID) for the address space that owns the referenced data space. - For code LI this integer is an arbitrary number that IPCS associates with the symbolic literal. Zero is used for literals when no storage is available. - For codes beginning with the letter C this integer contains the System/370 CPU address (STAP instruction) for the referenced			
		CPU or X'FFFFFFFF'. - For other codes this integer has no meaning and should be set to X'FFFFFFFF'. (3) A doubleword whose interpretation depends on the preceding code: - For code A the first fullword contains zero normally. A non-zero associated ASID may appear in the first fullword in the dump header of records written by SADUMP. The second fullword contains binary zeroes in all cases. - For codes CV and SV the first fullword is interpreted as a binary integer that contains the address space identification (ASID) for the referenced address space, and the second fullword contains binary zeroes. - For codes DS and SS the doubleword is interpreted as the DSPNAME for the referenced data space. - For code SC the doubleword is interpreted as a component identifier. - For other codes this doubleword has no meaning and should be set to zero.			
16	(10)	SIGNED	4	(0)	Align on word boundary
16	(10)	CHARACTER	16	WH31AS(0)	IPCS address space descriptor
16	(10)	CHARACTER	1	WH31AS0(0)	Begin BLSRDATS #MD03009
16	(10)	CHARACTER	2	WH31AST(0)	Address space type code
16	(10)	ADDRESS	2		Address space type code
16	(10)	X'C140'	0	ZZZASTA	"C'A '" ABSOLUTE
16	(10)	X'C2D3'	0	ZZZASTBL	"C'BL'" BLOCK
16	(10)	X'C2E2'	0	ZZZASTBS	"C'BS'" RBA

Table 339. Structure WH31 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	X'C2E3'	0	ZZZASTBT	"C'BT'" TTR
16	(10)	X'C340'	0	ZZZASTC	"C'C '" CPU STATUS
16	(10)	X'C3C5'	0	ZZZASTCE	"C'CE'" CPU DOMAIN(VECTOR)
16	(10)	X'C3D9'	0	ZZZASTCR	"C'CR'" CPU REAL
16	(10)	X'C3E3'	0	ZZZASTCT	"C'CT'" CPU DOMAIN(CPUTRACE)
16	(10)	X'C3E5'	0	ZZZASTCV	"C'CV'" CPU ASID
16	(10)	X'C4E2'	0	ZZZASTDS	"C'DS'" ASID DSPNAME
16	(10)	X'C840'	0	ZZZASTH	"C'H '" HEADER
16	(10)	X'D3C9'	0	ZZZASTLI	"C'LI'" LITERAL
16	(10)	X'4040'	0	ZZZASTNO	"C' '" No address space type code
16	(10)	X'E2C2'	0	ZZZASTSB	"C'SB'" DOMAIN(SDUMPBUFFER)
16	(10)	X'E2C3'	0	ZZZASTSC	"C'SC'" COMPDATA
16	(10)	X'E2C4'	0	ZZZASTSD	"C'SD'" DOMAIN(SUMDUMP)
16	(10)	X'E2E2'	0	ZZZASTSS	"C'SS'" ASID DSPNAME SUMDUMP
16	(10)	X'E2E5'	0	ZZZASTSV	"C'SV'" ASID SUMDUMP
18	(12)	BITSTRING	2	WH31ASH	Reserved
20	(14)	SIGNED	4	WH31AS1(0)	Integer 1
20	(14)	SIGNED	4		Integer 1
24	(18)	CHARACTER	8	WH31ASC(0)	Second qualifier
24	(18)	SIGNED	4	WH31AS2(0)	Integer 2
24	(18)	SIGNED	4		Integer 2
28	(1C)	BITSTRING	4	WH31AS3	Reserved
32	(20)	CHARACTER	1	WH31AS9(0)	End BLSRDATS #MD03009
32	(20)	ADDRESS	4	WH31LAD	WHERE address
36	(24)	BITSTRING	20		Reserved
56	(38)	CHARACTER	120	WH31OUTP(0)	WHERE output area
56	(38)	ADDRESS	4	WH31OLAD	Located object address
IPCS records the following properties for areas of storage: - The offset between an addressed byte and the physical origin of this area. - The physical length of this area. - A data type. - An indication whether the area is scalar or an array and, if the area is an array, the number of entries in the array and the subscript which applies to the first entry.					
60	(3C)	SIGNED	4	(0)	Align structure on boundary
60	(3C)	CHARACTER	60	WH31OD(0)	IPCS attribute descriptor
60	(3C)	CHARACTER	1	WH31OD00(0)	Begin BLSRDATC #MD03007
60	(3C)	ADDRESS	4	WH31ODOF	Offset in bytes
64	(40)	ADDRESS	4	WH31ODLE	Length in bytes
68	(44)	SIGNED	1	WH31ODOB	
69	(45)	SIGNED	1	WH31ODLB	
70	(46)	SIGNED	2	(0)	Align structure on boundary
70	(46)	CHARACTER	34	WH31ODT(0)	IPCS data type descriptor
70	(46)	CHARACTER	1	WH31ODT0(0)	Begin BLSRDATT #MD04356
70	(46)	CHARACTER	1	WH31ODTY(0)	Data type code
70	(46)	ADDRESS	1		Data type code
------- The following data type codes are supported by IPCS -----					
70	(46)	X'C1'	0	ZZZDTYA	"C'A',1,C'C'" Pointer
70	(46)	X'C2'	0	ZZZDTYB	"C'B',1,C'C'" Bit
70	(46)	X'C3'	0	ZZZDTYC	"C'C',1,C'C'" Character

Table 339. Structure WH31 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
70	(46)	X'C5'	0	ZZZDTYE	"C'E',1,C'C'" Float
70	(46)	X'C6'	0	ZZZDTYF	"C'F',1,C'C'" Signed
70	(46)	X'C9'	0	ZZZDTYI	"C'I',1,C'C'" Instruction
70	(46)	X'D3'	0	ZZZDTYL	"C'L',1,C'C' Module @D1A"
70	(46)	X'D4'	0	ZZZDTYM	"C'M',1,C'C'" Structure
70	(46)	X'D7'	0	ZZZDTYP	"C'P',1,C'C'" Packed
70	(46)	X'E4'	0	ZZZDTYU	"C'U',1,C'C'" Area
70	(46)	X'E8'	0	ZZZDTYY	"C'Y',1,C'C'" Unsigned
70	(46)	X'E9'	0	ZZZDTYZ	"C'Z',1,C'C'" Zoned
71	(47)	BITSTRING	1		
72	(48)	CHARACTER	31	WH31ODTD	Data name
103	(67)	CHARACTER	1	WH31ODTE	reserved
104	(68)	CHARACTER	1	WH31ODT9(0)	End BLSRDATT #MD04356
104	(68)	SIGNED	4	WH31ODIM	Array entry count
108	(6C)	SIGNED	4	WH31ODIL	Subscript of initial array entry
112	(70)	BITSTRING	4	WH31ODF	Flags
		1...		WH31ODFA	"BIT0" Array
116	(74)	BITSTRING	4		
120	(78)	CHARACTER	1	WH31OD99(0)	End BLSRDATC #MD03007
120	(78)	SIGNED	4	WH31OOFF	Offset into located object
124	(7C)	SIGNED	2	WH31OSAL	Length of system area name
126	(7E)	CHARACTER	31	WH31OSAN	System area name (e.g. PLPA)
157	(9D)	CHARACTER	1		Reserved
158	(9E)	SIGNED	2	WH31ONOL	Length of NAME+OFFSET string
160	(A0)	CHARACTER	42	WH31ONMO	NAME+OFFSET string
202	(CA)	BITSTRING	2		Reserved
204	(CC)	ADDRESS	4	WH31OMDP	Address of nonstandard module name data or 0
208	(D0)	BITSTRING	14		Reserved
222	(DE)	CHARACTER	1	WH31999(0)	End BLSRPWHS #MD06207

Table 340. Cross Reference for BLSRPWHS

Name	Offset	Hex Tag
BIT0	0	80
BIT1	0	40
BIT2	0	20
BIT3	0	10
BIT4	0	8
BIT5	0	4
BIT6	0	2
BIT7	0	1
WH31	0	
WH31AS	10	
WH31ASC	18	
WH31ASH	12	0
WH31AST	10	
WH31AS0	10	
WH31AS1	14	
WH31AS2	18	
WH31AS3	1C	0

Table 340. Cross Reference for BLSRPWHS (continued)

Name	Offset	Hex Tag
WH31AS9	20	
WH31DTYF	5	38
WH31DTYFL	5	20
WH31DTYFM	5	10
WH31DTYFU	5	8
WH31ID	0	
WH31IDC	0	D7E6C8E2
WH31IDL	4	F1
WH31IDL31	4	F1
WH31IDL64	4	F2
WH31LAD	20	
WH31MODN	8	40404040
WH31OD	3C	
WH31ODF	70	0
WH31ODFA	70	80
WH31ODIL	6C	0
WH31ODIM	68	0
WH31ODLB	45	0
WH31ODLE	40	
WH31ODOB	44	0
WH31ODOF	3C	
WH31ODT	46	
WH31ODTD	48	40404040
WH31ODTE	67	40
WH31ODTY	46	
WH31ODT0	46	
WH31ODT9	68	
WH31OD00	3C	
WH31OD99	78	
WH31OLAD	38	
WH31OMDP	CC	
WH31ONMO	A0	40404040
WH31ONOL	9E	0
WH31OOFF	78	0
WH31OSAL	7C	0
WH31OSAN	7E	40404040
WH31OUTP	38	
WH31PFLG	5	
WH31PFL1	5	0
WH31PUT	5	80
WH31RETN	5	40
WH31000	0	
WH31999	DE	
ZZZASTA	10	C140
ZZZASTBL	10	C2D3
ZZZASTBS	10	C2E2
ZZZASTBT	10	C2E3
ZZZASTC	10	C340
ZZZASTCE	10	C3C5

Table 340. Cross Reference for BLSRPWHS (continued)

Name	Offset	Hex Tag
ZZZASTCR	10	C3D9
ZZZASTCT	10	C3E3
ZZZASTCV	10	C3E5
ZZZASTDS	10	C4E2
ZZZASTH	10	C840
ZZZASTLI	10	D3C9
ZZZASTNO	10	4040
ZZZASTSB	10	E2C2
ZZZASTSC	10	E2C3
ZZZASTSD	10	E2C4
ZZZASTSS	10	E2E2
ZZZASTSV	10	E2E5
ZZZDTYA	46	C1
ZZZDTYB	46	C2
ZZZDTYC	46	C3
ZZZDTYE	46	C5
ZZZDTYF	46	C6
ZZZDTYI	46	C9
ZZZDTYL	46	D3
ZZZDTYM	46	D4
ZZZDTYP	46	D7
ZZZDTYU	46	E4
ZZZDTYY	46	E8
ZZZDTYZ	46	E9

Chapter 69. BLSRPW64 Information

BLSRPW64 Programming Interface Information

BLSRPW64 is a programming interface.

BLSRPW64 Heading Information

Common Name:	IPCS Symbol Table Record
Macro ID:	BLSRPWHS
DSECT Name:	Selected by invoker
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	PWHS Offset: 0 Length: 4
Storage Attributes:	Main Storage: No Virtual Storage: No Auxiliary Storage: Yes Subpool: Any that may be altered by key 8 programs Key: 8 Data Space: No Residency: LOC(ANY,ANY)
Size:	ABITS=31: 222 bytes ABITS=64: 240 bytes
Created by:	IPCS subcommands concerned with debugging
Pointed to by:	Parameter lists used by IPCS programs to describe a location of interest as input to the IPCS Where service and a block that contains it on successful return from that service.
Serialization:	None
Function:	Describe the input to and the output from the WHERE service. OPERATION = Create a mapping for BLSRPWHS

BLSRPW64 mapping

Table 341. Structure WH64

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	WH64	, WHERE service parameter list
0	(0)	DBL WORD	8	WH64000(0)	Begin BLSRPWHS #MD06207
A WHERE service parameter list defines the input to and the output from the WHERE service.					
0	(0)	CHARACTER	5	WH64ID(0)	Control block identifier
0	(0)	CHARACTER	4	WH64IDC	Control block acronym
4	(4)	CHARACTER	1	WH64IDL	Control block level indicator
4	(4)	X'F1'	0	WH64IDL31	"C'1'" ABITS=31
4	(4)	X'F2'	0	WH64IDL64	"C'2'" ABITS=64
5	(5)	BITSTRING	3	WH64PFLG(0)	Processing flags
5	(5)	BITSTRING	1	WH64PFL1	First byte of flags

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Table 341. Structure WH64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		WH64PUT	"BIT0" Generate output using the print service
		.1..		WH64RETN	"BIT1" Return nonstandard module name
		..11 1...		WH64DTYF	"BIT2+BIT3+BIT4" Data type code selectors. All bits off or on select all types
		..1.		WH64DTYFL	"BIT2" MODULE selector
		...1		WH64DTYFM	"BIT3" STRUCTURE selector
		.... 1...		WH64DTYFU	"BIT4" AREA selector
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	8	WH64MODN	Name of module requesting the service

An IPCS address space is specified by three values:
(1) A two-character code identifying the type of address space:
- Letter code A indicates that the file contains an MVS high-speed dump and that absolute main storage of the dumped system is being referenced (ABSOLUTE)
- Code BL indicates that a physical block in a file is being referenced using a relative block number (BLOCK)
- Code BS indicates that a relative byte address group in the file is being referenced (RBA)
- Code BT indicates that a physical block in a file is being referenced using a relative track address (TTR)
- Letter code C indicates that the file contains an MVS high-speed dump and that the CPU status data for one dumped CPU is being referenced (CPU STATUS)
- Code CE indicates that the file contains an MVS high-speed dump and that vector registers for one CPU are being referenced (CPU DOMAIN(VECTOR))
- Code CR indicates that the file contains an MVS high-speed dump and that real main storage seen by one CPU is being referenced (CPU REAL)
- Code CT indicates that the file contains an MVS high-speed dump and that a console loop trace for one CPU is being referenced (CPU DOMAIN(CPUTRACE))
- Code CV indicates that the file contains an MVS high-speed dump and that virtual main storage seen by one MVS address space dispatched on a designated CPU is being referenced (CPU ASID)
- Code DS indicates that the file contains an MVS high-speed dump and that a data space is being referenced (ASID DSPNAME)
- Letter code H indicates that the file contains an MVS

Table 341. Structure WH64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		high-speed dump and that the header data for the dump is being referenced (HEADER) - Code LI refers to a literal value associated with a symbol (LITERAL) - Code SB indicates that the file contains an MVS high-speed dump and that the SDUMP 4K buffer is being referenced (DOMAIN(SDUMPBUFFER)) - Code SC indicates that the file contains an MVS high-speed dump and that component data is being referenced (COMPDATA) - Code SD indicates that the file contains an MVS high-speed dump and that the SDUMP summary dump records are being referenced (DOMAIN(SUMDUMP)) - Code SS indicates that the file contains an MVS high-speed dump and that the portion of a data space represented in summary dump records is being referenced (ASID DSPNAME SUMDUMP) - Code SV indicates that the file contains an MVS high-speed dump and that the portion of one MVS address space represented in summary dump records is being referenced (ASID SUMDUMP) (2) A binary integer whose interpretation depends on the preceding code: - For code BL this integer should be the relative block number - For code BS this integer should be the relative byte address group number - For code BT this integer should be the relative track address - For codes DS and SS this integer contains the address space identification (ASID) for the address space that owns the referenced data space. - For code LI this integer is an arbitrary number that IPCS associates with the symbolic literal. Zero is used for literals when no storage is available. - For codes beginning with the letter C this integer contains the System/370 CPU address (STAP instruction) for the referenced			
		CPU or X'FFFFFFFF'. - For other codes this integer has no meaning and should be set to X'FFFFFFFF'. (3) A doubleword whose interpretation depends on the preceding code: - For code A the first fullword contains zero normally. A non-zero associated ASID may appear in the first fullword in the dump header of records written by SADUMP. The second fullword contains binary zeroes in all cases. - For codes CV and SV the first fullword is interpreted as a binary integer that contains the address space identification (ASID) for the referenced address space, and the second fullword contains binary zeroes. - For codes DS and SS the doubleword is interpreted as the DSPNAME for the referenced data space. - For code SC the doubleword is interpreted as a component identifier. - For other codes this doubleword has no meaning and should be set to zero.			
16	(10)	SIGNED	4	(0)	Align on word boundary
16	(10)	CHARACTER	16	WH64AS(0)	IPCS address space descriptor
16	(10)	CHARACTER	1	WH64AS0(0)	Begin BLSRDATS #MD03009
16	(10)	CHARACTER	2	WH64AST(0)	Address space type code
16	(10)	ADDRESS	2		Address space type code
16	(10)	X'C140'	0	ZZZASTA	"C'A '" ABSOLUTE
16	(10)	X'C2D3'	0	ZZZASTBL	"C'BL'" BLOCK
16	(10)	X'C2E2'	0	ZZZASTBS	"C'BS'" RBA

Table 341. Structure WH64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	X'C2E3'	0	ZZZASTBT	"C'BT'" TTR
16	(10)	X'C340'	0	ZZZASTC	"C'C '" CPU STATUS
16	(10)	X'C3C5'	0	ZZZASTCE	"C'CE'" CPU DOMAIN(VECTOR)
16	(10)	X'C3D9'	0	ZZZASTCR	"C'CR'" CPU REAL
16	(10)	X'C3E3'	0	ZZZASTCT	"C'CT'" CPU DOMAIN(CPUTRACE)
16	(10)	X'C3E5'	0	ZZZASTCV	"C'CV'" CPU ASID
16	(10)	X'C4E2'	0	ZZZASTDS	"C'DS'" ASID DSPNAME
16	(10)	X'C840'	0	ZZZASTH	"C'H '" HEADER
16	(10)	X'D3C9'	0	ZZZASTLI	"C'LI'" LITERAL
16	(10)	X'4040'	0	ZZZASTNO	"C' '" No address space type code
16	(10)	X'E2C2'	0	ZZZASTSB	"C'SB'" DOMAIN(SDUMPBUFFER)
16	(10)	X'E2C3'	0	ZZZASTSC	"C'SC'" COMPDATA
16	(10)	X'E2C4'	0	ZZZASTSD	"C'SD'" DOMAIN(SUMDUMP)
16	(10)	X'E2E2'	0	ZZZASTSS	"C'SS'" ASID DSPNAME SUMDUMP
16	(10)	X'E2E5'	0	ZZZASTSV	"C'SV'" ASID SUMDUMP
18	(12)	BITSTRING	2	WH64ASH	Reserved
20	(14)	SIGNED	4	WH64AS1(0)	Integer 1
20	(14)	SIGNED	4		Integer 1
24	(18)	CHARACTER	8	WH64ASC(0)	Second qualifier
24	(18)	SIGNED	4	WH64AS2(0)	Integer 2
24	(18)	SIGNED	4		Integer 2
28	(1C)	BITSTRING	4	WH64AS3	Reserved
32	(20)	CHARACTER	1	WH64AS9(0)	End BLSRDATS #MD03009
32	(20)	BITSTRING	8	WH64LAD	WHERE address
40	(28)	BITSTRING	12		Reserved
52	(34)	CHARACTER	120	WH64OUTP(0)	WHERE output area
52	(34)	BITSTRING	8	WH64OLAD	Located object address
IPCS records the following properties for areas of storage: - The offset between an addressed byte and the physical origin of this area. - The physical length of this area. - A data type. - An indication whether the area is scalar or an array and, if the area is an array, the number of entries in the array and the subscript which applies to the first entry.					
60	(3C)	SIGNED	4	(0)	Align structure on boundary
60	(3C)	CHARACTER	76	WH64OD(0)	IPCS attribute descriptor
60	(3C)	CHARACTER	1	WH64OD00(0)	Begin BLSRDATC #MD03007
60	(3C)	SIGNED	8	WH64ODOF(0)	Offset in bytes
60	(3C)	ADDRESS	8		Offset in bytes
68	(44)	ADDRESS	8	WH64ODLE	Length in bytes
76	(4C)	SIGNED	1	WH64ODOB	
77	(4D)	SIGNED	1	WH64ODLB	
78	(4E)	SIGNED	2	(0)	Align structure on boundary
78	(4E)	CHARACTER	34	WH64ODT(0)	IPCS data type descriptor
78	(4E)	CHARACTER	1	WH64ODT0(0)	Begin BLSRDATT #MD04356
78	(4E)	CHARACTER	1	WH64ODTY(0)	Data type code
78	(4E)	ADDRESS	1		Data type code
------- The following data type codes are supported by IPCS -----					
78	(4E)	X'C1'	0	ZZZDTYA	"C'A',1,C'C'" Pointer
78	(4E)	X'C2'	0	ZZZDTYB	"C'B',1,C'C'" Bit

Table 341. Structure WH64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
78	(4E)	X'C3'	0	ZZZDTYC	"C'C',1,C'C'" Character
78	(4E)	X'C5'	0	ZZZDTYE	"C'E',1,C'C'" Float
78	(4E)	X'C6'	0	ZZZDTYF	"C'F',1,C'C'" Signed
78	(4E)	X'C9'	0	ZZZDTYI	"C'I',1,C'C'" Instruction
78	(4E)	X'D3'	0	ZZZDTYL	"C'L',1,C'C' Module @D1A"
78	(4E)	X'D4'	0	ZZZDTYM	"C'M',1,C'C'" Structure
78	(4E)	X'D7'	0	ZZZDTYP	"C'P',1,C'C'" Packed
78	(4E)	X'E4'	0	ZZZDTYU	"C'U',1,C'C'" Area
78	(4E)	X'E8'	0	ZZZDTYY	"C'Y',1,C'C'" Unsigned
78	(4E)	X'E9'	0	ZZZDTYZ	"C'Z',1,C'C'" Zoned
79	(4F)	BITSTRING	1		
80	(50)	CHARACTER	31	WH64ODTD	Data name
111	(6F)	CHARACTER	1	WH64ODTE	reserved
112	(70)	CHARACTER	1	WH64ODT9(0)	End BLSRDATT #MD04356
112	(70)	BITSTRING	8	WH64ODIM	Array entry count
120	(78)	BITSTRING	8	WH64ODIL	Subscript of initial array entry
128	(80)	BITSTRING	4	WH64ODF	Flags
		1...		WH64ODFA	"BIT0" Array
132	(84)	BITSTRING	4		
136	(88)	CHARACTER	1	WH64OD99(0)	End BLSRDATC #MD03007
136	(88)	BITSTRING	8	WH64OOFF	Offset into located object
144	(90)	SIGNED	2	WH64OSAL	Length of system area name
146	(92)	CHARACTER	31	WH64OSAN	System area name (e.g. PLPA)
177	(B1)	CHARACTER	1		Reserved
178	(B2)	SIGNED	2	WH64ONOL	Length of NAME+OFFSET string
180	(B4)	CHARACTER	42	WH64ONMO	NAME+OFFSET string
222	(DE)	BITSTRING	2		Reserved
224	(E0)	ADDRESS	4	WH64OMDP	Address of nonstandard module name data or 0
228	(E4)	BITSTRING	12		Reserved
240	(F0)	CHARACTER	1	WH64999(0)	End BLSRPWHS #MD06207

Table 342. Cross Reference for BLSRPW64

Name	Offset	Hex Tag
WH64	0	
WH64AS	10	
WH64ASC	18	
WH64ASH	12	0
WH64AST	10	
WH64AS0	10	
WH64AS1	14	
WH64AS2	18	
WH64AS3	1C	0
WH64AS9	20	
WH64DTYF	5	38
WH64DTYFL	5	20
WH64DTYFM	5	10
WH64DTYFU	5	8
WH64ID	0	
WH64IDC	0	D7E6C8E2

Table 342. Cross Reference for BLSRPW64 (continued)

Name	Offset	Hex Tag
WH64IDL	4	F2
WH64IDL31	4	F1
WH64IDL64	4	F2
WH64LAD	20	0
WH64MODN	8	40404040
WH64OD	3C	
WH64ODF	80	0
WH64ODFA	80	80
WH64ODIL	78	0
WH64ODIM	70	0
WH64ODLB	4D	0
WH64ODLE	44	
WH64ODOB	4C	0
WH64ODOF	3C	
WH64ODT	4E	
WH64ODTD	50	40404040
WH64ODTE	6F	40
WH64ODTY	4E	
WH64ODT0	4E	
WH64ODT9	70	
WH64OD00	3C	
WH64OD99	88	
WH64OLAD	34	0
WH64OMDP	E0	
WH64ONMO	B4	40404040
WH64ONOL	B2	0
WH64OOFF	88	0
WH64OSAL	90	0
WH64OSAN	92	40404040
WH64OUTP	34	
WH64PFLG	5	
WH64PFL1	5	0
WH64PUT	5	80
WH64RETN	5	40
WH64000	0	
WH64999	F0	
ZZZASTA	10	C140
ZZZASTBL	10	C2D3
ZZZASTBS	10	C2E2
ZZZASTBT	10	C2E3
ZZZASTC	10	C340
ZZZASTCE	10	C3C5
ZZZASTCR	10	C3D9
ZZZASTCT	10	C3E3
ZZZASTCV	10	C3E5
ZZZASTDS	10	C4E2
ZZZASTH	10	C840
ZZZASTLI	10	D3C9
ZZZASTNO	10	4040

Table 342. Cross Reference for BLSRPW64 (continued)

Name	Offset	Hex Tag
ZZZASTSB	10	E2C2
ZZZASTSC	10	E2C3
ZZZASTSD	10	E2C4
ZZZASTSS	10	E2E2
ZZZASTSV	10	E2E5
ZZZDTYA	4E	C1
ZZZDTYB	4E	C2
ZZZDTYC	4E	C3
ZZZDTYE	4E	C5
ZZZDTYF	4E	C6
ZZZDTYI	4E	C9
ZZZDTYL	4E	D3
ZZZDTYM	4E	D4
ZZZDTYP	4E	D7
ZZZDTYU	4E	E4
ZZZDTYY	4E	E8
ZZZDTYZ	4E	E9

Chapter 70. BLSRSASY Information

BLSRSASY Programming Interface Information

BLSRSASY is a programming interface.

BLSRSASY Heading Information

Common Name:	IPCS Storage Address Record
Macro ID:	BLSRSASY
DSECT Name:	defined by invoker
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	SA Offset: 0 Length: 2
Storage Attributes:	Main Storage: Pageable Virtual Storage: Yes Auxiliary Storage: N/A Subpool: N/A Key: 8 Data Space: No Residency: LOC(ANY)
Size:	ABITS(31) - 256-3072 bytes ABITS(64) - 192-3008 bytes
Created by:	Invokers of the IPCS storage map service
Pointed to by:	XMSPSAR (macro BLSRXMSP)
Serialization:	None
Function:	Define the structure of a dump directory storage address (SA) record.

BLSRSASY mapping

Table 343. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'80'	0	BIT0	"128"
0	(0)	X'40'	0	BIT1	"64"
0	(0)	X'20'	0	BIT2	"32"
0	(0)	X'10'	0	BIT3	"16"
0	(0)	X'8'	0	BIT4	"8"
0	(0)	X'4'	0	BIT5	"4"
0	(0)	X'2'	0	BIT6	"2"
0	(0)	X'1'	0	BIT7	"1"

Table 344. Structure SA31

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SA31	, IPCS Storage Address Record
0	(0)	CHARACTER	1	SA31000(0)	Begin BLSRSASY #MD99125
0	(0)	CHARACTER	2	SA31RID	Record type==>SA

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Table 344. Structure SA31 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2	(2)	BITSTRING	6		
A Storage Address record defines one storage map record, associating it with a contiguous block of storage in an address space.					
8	(8)	SIGNED	4	SA31RDX	Data set index
An IPCS address space is specified by three values: (1) A two-character code identifying the type of address space: - Letter code A indicates that the file contains an MVS high-speed dump and that absolute main storage of the dumped system is being referenced (ABSOLUTE) - Code BL indicates that a physical block in a file is being referenced using a relative block number (BLOCK) - Code BS indicates that a relative byte address group in the file is being referenced (RBA) - Code BT indicates that a physical block in a file is being referenced using a relative track address (TTR) - Letter code C indicates that the file contains an MVS high-speed dump and that the CPU status data for one dumped CPU is being referenced (CPU STATUS) - Code CE indicates that the file contains an MVS high-speed dump and that vector registers for one CPU are being referenced (CPU DOMAIN(VECTOR)) - Code CR indicates that the file contains an MVS high-speed dump and that real main storage seen by one CPU is being referenced (CPU REAL) - Code CT indicates that the file contains an MVS high-speed dump and that a console loop trace for one CPU is being referenced (CPU DOMAIN(CPUTRACE)) - Code CV indicates that the file contains an MVS high-speed dump and that virtual main storage seen by one MVS address space dispatched on a designated CPU is being referenced (CPU ASID) - Code DS indicates that the file contains an MVS high-speed dump and that a data space is being referenced (ASID DSPNAME) - Letter code H indicates that the file contains an MVS					

Table 344. Structure SA31 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		high-speed dump and that the header data for the dump is being referenced (HEADER) - Code LI refers to a literal value associated with a symbol (LITERAL) - Code SB indicates that the file contains an MVS high-speed dump and that the SDUMP 4K buffer is being referenced (DOMAIN(SDUMPBUFFER)) - Code SC indicates that the file contains an MVS high-speed dump and that component data is being referenced (COMPDATA) - Code SD indicates that the file contains an MVS high-speed dump and that the SDUMP summary dump records are being referenced (DOMAIN(SUMDUMP)) - Code SS indicates that the file contains an MVS high-speed dump and that the portion of a data space represented in summary dump records is being referenced (ASID DSPNAME SUMDUMP) - Code SV indicates that the file contains an MVS high-speed dump and that the portion of one MVS address space represented in summary dump records is being referenced (ASID SUMDUMP) (2) A binary integer whose interpretation depends on the preceding code: - For code BL this integer should be the relative block number - For code BS this integer should be the relative byte address group number - For code BT this integer should be the relative track address - For codes DS and SS this integer contains the address space identification (ASID) for the address space that owns the referenced data space. - For code LI this integer is an arbitrary number that IPCS associates with the symbolic literal. Zero is used for literals when no storage is available. - For codes beginning with the letter C this integer contains the System/370 CPU address (STAP instruction) for the referenced			
		CPU or X'FFFFFFFF'. - For other codes this integer has no meaning and should be set to X'FFFFFFFF'. (3) A doubleword whose interpretation depends on the preceding code: - For code A the first fullword contains zero normally. A non-zero associated ASID may appear in the first fullword in the dump header of records written by SADUMP. The second fullword contains binary zeroes in all cases. - For codes CV and SV the first fullword is interpreted as a binary integer that contains the address space identification (ASID) for the referenced address space, and the second fullword contains binary zeroes. - For codes DS and SS the doubleword is interpreted as the DSPNAME for the referenced data space. - For code SC the doubleword is interpreted as a component identifier. - For other codes this doubleword has no meaning and should be set to zero.			
12	(C)	SIGNED	4	(0)	Align on word boundary
12	(C)	CHARACTER	16	SA31AS(0)	IPCS address space descriptor
12	(C)	CHARACTER	1	SA31AS0(0)	Begin BLSRDATS #MD03009
12	(C)	CHARACTER	2	SA31AST(0)	Address space type code
12	(C)	ADDRESS	2		Address space type code
12	(C)	X'C140'	0	ZZZASTA	"C'A '" ABSOLUTE
12	(C)	X'C2D3'	0	ZZZASTBL	"C'BL'" BLOCK
12	(C)	X'C2E2'	0	ZZZASTBS	"C'BS'" RBA

Table 344. Structure SA31 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	X'C2E3'	0	ZZZASTBT	"C'BT'" TTR
12	(C)	X'C340'	0	ZZZASTC	"C'C '" CPU STATUS
12	(C)	X'C3C5'	0	ZZZASTCE	"C'CE'" CPU DOMAIN(VECTOR)
12	(C)	X'C3D9'	0	ZZZASTCR	"C'CR'" CPU REAL
12	(C)	X'C3E3'	0	ZZZASTCT	"C'CT'" CPU DOMAIN(CPUTRACE)
12	(C)	X'C3E5'	0	ZZZASTCV	"C'CV'" CPU ASID
12	(C)	X'C4E2'	0	ZZZASTDS	"C'DS'" ASID DSPNAME
12	(C)	X'C840'	0	ZZZASTH	"C'H '" HEADER
12	(C)	X'D3C9'	0	ZZZASTLI	"C'LI'" LITERAL
12	(C)	X'4040'	0	ZZZASTNO	"C' '" No address space type code
12	(C)	X'E2C2'	0	ZZZASTSB	"C'SB'" DOMAIN(SDUMPBUFFER)
12	(C)	X'E2C3'	0	ZZZASTSC	"C'SC'" COMPDATA
12	(C)	X'E2C4'	0	ZZZASTSD	"C'SD'" DOMAIN(SUMDUMP)
12	(C)	X'E2E2'	0	ZZZASTSS	"C'SS'" ASID DSPNAME SUMDUMP
12	(C)	X'E2E5'	0	ZZZASTSV	"C'SV'" ASID SUMDUMP
14	(E)	BITSTRING	2	SA31ASH	Reserved
16	(10)	SIGNED	4	SA31AS1(0)	Integer 1
16	(10)	SIGNED	4		Integer 1
20	(14)	CHARACTER	8	SA31ASC(0)	Second qualifier
20	(14)	SIGNED	4	SA31AS2(0)	Integer 2
20	(14)	SIGNED	4		Integer 2
24	(18)	BITSTRING	4	SA31AS3	Reserved
28	(1C)	CHARACTER	1	SA31AS9(0)	End BLSRDATS #MD03009
28	(1C)	ADDRESS	4	SA31LAD	Logical address
32	(20)	SIGNED	2	(0)	Align structure on boundary
32	(20)	CHARACTER	34	SA31DT(0)	IPCS data type descriptor
32	(20)	CHARACTER	1	SA31DT0(0)	Begin BLSRDATT #MD04356
32	(20)	CHARACTER	1	SA31DTY(0)	Data type code
32	(20)	ADDRESS	1		Data type code
------- The following data type codes are supported by IPCS -----					
32	(20)	X'C1'	0	ZZZDTYA	"C'A',1,C'C'" Pointer
32	(20)	X'C2'	0	ZZZDTYB	"C'B',1,C'C'" Bit
32	(20)	X'C3'	0	ZZZDTYC	"C'C',1,C'C'" Character
32	(20)	X'C5'	0	ZZZDTYE	"C'E',1,C'C'" Float
32	(20)	X'C6'	0	ZZZDTYF	"C'F',1,C'C'" Signed
32	(20)	X'C9'	0	ZZZDTYI	"C'I',1,C'C'" Instruction
32	(20)	X'D3'	0	ZZZDTYL	"C'L',1,C'C' Module @D1A"
32	(20)	X'D4'	0	ZZZDTYM	"C'M',1,C'C'" Structure
32	(20)	X'D7'	0	ZZZDTYP	"C'P',1,C'C'" Packed
32	(20)	X'E4'	0	ZZZDTYU	"C'U',1,C'C'" Area
32	(20)	X'E8'	0	ZZZDTYY	"C'Y',1,C'C'" Unsigned
32	(20)	X'E9'	0	ZZZDTYZ	"C'Z',1,C'C'" Zoned
33	(21)	BITSTRING	1		
34	(22)	CHARACTER	31	SA31DTD	Data name
65	(41)	CHARACTER	1	SA31DTE	reserved
66	(42)	CHARACTER	1	SA31DT9(0)	End BLSRDATT #MD04356
66	(42)	CHARACTER	1	SA31ELK(0)	End of logical key
66	(42)	X'42'	0	SA31LKL	"SA31ELK-SA31000" Logical key length
66	(42)	BITSTRING	2		Reserved

Table 344. Structure SA31 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
IPCS records the following properties for areas of storage: - The offset between an addressed byte and the physical origin of this area. - The physical length of this area. - A data type. - An indication whether the area is scalar or an array and, if the area is an array, the number of entries in the array and the subscript which applies to the first entry.					
68	(44)	SIGNED	4	(0)	Align structure on boundary
68	(44)	CHARACTER	60	SA31F(0)	IPCS attribute descriptor
68	(44)	CHARACTER	1	SA31F00(0)	Begin BLSRDATC #MD03007
68	(44)	ADDRESS	4	SA31FOF	Offset in bytes
72	(48)	ADDRESS	4	SA31FLE	Length in bytes
76	(4C)	SIGNED	1	SA31FOB	
77	(4D)	SIGNED	1	SA31FLB	
78	(4E)	SIGNED	2	(0)	Align structure on boundary
78	(4E)	CHARACTER	34	SA31FT(0)	IPCS data type descriptor
78	(4E)	CHARACTER	1	SA31FT0(0)	Begin BLSRDATT #MD04356
78	(4E)	CHARACTER	1	SA31FTY(0)	Data type code
78	(4E)	ADDRESS	1		Data type code
79	(4F)	BITSTRING	1		
80	(50)	CHARACTER	31	SA31FTD	Data name
111	(6F)	CHARACTER	1	SA31FTE	reserved
112	(70)	CHARACTER	1	SA31FT9(0)	End BLSRDATT #MD04356
112	(70)	SIGNED	4	SA31FIM	Array entry count
116	(74)	SIGNED	4	SA31FIL	Subscript of initial array entry
120	(78)	BITSTRING	4	SA31FF	Flags
		1...		SA31FFA	"BIT0" Array
124	(7C)	BITSTRING	4		
128	(80)	CHARACTER	1	SA31F99(0)	End BLSRDATC #MD03007
Scan results--Flags, return codes, and processing summary					
128	(80)	BITSTRING	8	SA31SF(0)	Scan Flags
128	(80)	BITSTRING	1		
		1...		SA31SF1	"BIT0" Scan started
		.1..		SA31SF9	"BIT1" Scan completed
		..1.		SA31SFI	"BIT2" Initial analysis error
		...1		SA31SFS	"BIT3" Storage required for diagnostic(s)
		.... 1...		SA31SFA	"BIT4" Storage attributes unknown
		.... .1..		SA31SFM	"BIT5" Use model - no scan exit
		.... ..1.		SA31SFF	"BIT6" Find routine exists
		1		SA31SFG	"BIT7" Scan exit accepts ABITS(64) API
129	(81)	BITSTRING	7		Reserved
136	(88)	BITSTRING	8	SA31GMT	TOD clock value when scan was last performed
144	(90)	CHARACTER	8	SA31PGV	Scan program name or model name
152	(98)	SIGNED	1	SA31SRC	Scan result code-- 0=>Informational, 4=>Warning, 8=>Error, 12=>Serious
153	(99)	BITSTRING	16		Reserved

Table 344. Structure SA31 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
169	(A9)	ADDRESS	1	SA31RST	BLSRSASY subtype
169	(A9)	X'0'	0	SA31RST31	"0" BLSRSASY subtype - ABITS=31
169	(A9)	X'1'	0	SA31RST64	"1" BLSRSASY subtype - ABITS=64
170	(AA)	BITSTRING	84		Reserved
Scan processing details--Length(0:2816) characters--structured by each scan exit to match its unique requirements					
254	(FE)	CHARACTER	1	SA31C(0)	Scan routine data
254	(FE)	SIGNED	2	SA31CL	Length of remark text
254	(FE)	X'0'	0	SA31LTL	"0" Minimum remark text length
254	(FE)	X'B00'	0	SA31HTL	"2816" Maximum remark text length
256	(100)	BITSTRING	1	SA31CT(0)	Scan routine data
3072	(C00)	CHARACTER	1	SA31999(0)	End BLSRSASY #MD99125
3072	(C00)	X'100'	0	SA31LRL	"SA31CT-SA31000" Minimum record length
3072	(C00)	X'C00'	0	SA31HRL	"SA31999-SA31000" Maximum record length

Table 345. Cross Reference for BLSRSASY

Name	Offset	Hex Tag
BIT0	0	80
BIT1	0	40
BIT2	0	20
BIT3	0	10
BIT4	0	8
BIT5	0	4
BIT6	0	2
BIT7	0	1
SA31	0	
SA31AS	C	
SA31ASC	14	
SA31ASH	E	0
SA31AST	C	
SA31AS0	C	
SA31AS1	10	
SA31AS2	14	
SA31AS3	18	0
SA31AS9	1C	
SA31C	FE	
SA31CL	FE	0
SA31CT	100	0
SA31DT	20	
SA31DTD	22	40404040
SA31DTE	41	40
SA31DTY	20	
SA31DT0	20	
SA31DT9	42	
SA31ELK	42	

Table 345. Cross Reference for BLSRSASY (continued)

Name	Offset	Hex Tag
SA31F	44	
SA31FF	78	0
SA31FFA	78	80
SA31FIL	74	0
SA31FIM	70	0
SA31FLB	4D	0
SA31FLE	48	
SA31FOB	4C	0
SA31FOF	44	
SA31FT	4E	
SA31FTD	50	40404040
SA31FTE	6F	40
SA31FTY	4E	
SA31FT0	4E	
SA31FT9	70	
SA31F00	44	
SA31F99	80	
SA31GMT	88	
SA31HRL	C00	C00
SA31HTL	FE	B00
SA31LAD	1C	
SA31LKL	42	42
SA31LRL	C00	100
SA31LTL	FE	0
SA31PGV	90	40404040
SA31RDX	8	0
SA31RID	0	E2C1
SA31RST	A9	
SA31RST31	A9	0
SA31RST64	A9	1
SA31SF	80	
SA31SFA	80	8
SA31SFF	80	2
SA31SFG	80	1
SA31SFI	80	20
SA31SFM	80	4
SA31SFS	80	10
SA31SF1	80	80
SA31SF9	80	40
SA31SRC	98	0
SA31000	0	
SA31999	C00	
ZZZASTA	C	C140
ZZZASTBL	C	C2D3
ZZZASTBS	C	C2E2
ZZZASTBT	C	C2E3
ZZZASTC	C	C340
ZZZASTCE	C	C3C5
ZZZASTCR	C	C3D9

Table 345. Cross Reference for BLSRSASY (continued)

Name	Offset	Hex Tag
ZZZASTCT	C	C3E3
ZZZASTCV	C	C3E5
ZZZASTDS	C	C4E2
ZZZASTH	C	C840
ZZZASTLI	C	D3C9
ZZZASTNO	C	4040
ZZZASTSB	C	E2C2
ZZZASTSC	C	E2C3
ZZZASTSD	C	E2C4
ZZZASTSS	C	E2E2
ZZZASTSV	C	E2E5
ZZZDTYA	20	C1
ZZZDTYB	20	C2
ZZZDTYC	20	C3
ZZZDTYE	20	C5
ZZZDTYF	20	C6
ZZZDTYI	20	C9
ZZZDTYL	20	D3
ZZZDTYM	20	D4
ZZZDTYP	20	D7
ZZZDTYU	20	E4
ZZZDTYY	20	E8
ZZZDTYZ	20	E9

Chapter 71. BLSRSA64 Information

BLSRSA64 Programming Interface Information

BLSRSA64 is a programming interface.

BLSRSA64 Heading Information

Common Name:	IPCS Storage Address Record
Macro ID:	BLSRSASY
DSECT Name:	defined by invoker
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	SA Offset: 0 Length: 2
Storage Attributes:	Main Storage: Pageable Virtual Storage: Yes Auxiliary Storage: N/A Subpool: N/A Key: 8 Data Space: No Residency: LOC(ANY)
Size:	ABITS(31) - 256-3072 bytes ABITS(64) - 192-3008 bytes
Created by:	Invokers of the IPCS storage map service
Pointed to by:	XMSPSAR (macro BLSRXMSP)
Serialization:	None
Function:	Define the structure of a dump directory storage address (SA) record.

BLSRSA64 mapping

Table 346. Structure SA64

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SA64	, IPCS Storage Address Record
0	(0)	CHARACTER	1	SA64000(0)	Begin BLSRSASY #MD99125
0	(0)	CHARACTER	2	SA64RID	Record type==>SA
2	(2)	BITSTRING	6		
A Storage Address record defines one storage map record, associating it with a contiguous block of storage in an address space.					
8	(8)	SIGNED	4	SA64RDX	Data set index

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Table 346. Structure SA64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					An IPCS address space is specified by three values: (1) A two-character code identifying the type of address space: - Letter code A indicates that the file contains an MVS high-speed dump and that absolute main storage of the dumped system is being referenced (ABSOLUTE) - Code BL indicates that a physical block in a file is being referenced using a relative block number (BLOCK) - Code BS indicates that a relative byte address group in the file is being referenced (RBA) - Code BT indicates that a physical block in a file is being referenced using a relative track address (TTR) - Letter code C indicates that the file contains an MVS high-speed dump and that the CPU status data for one dumped CPU is being referenced (CPU STATUS) - Code CE indicates that the file contains an MVS high-speed dump and that vector registers for one CPU are being referenced (CPU DOMAIN(VECTOR)) - Code CR indicates that the file contains an MVS high-speed dump and that real main storage seen by one CPU is being referenced (CPU REAL) - Code CT indicates that the file contains an MVS high-speed dump and that a console loop trace for one CPU is being referenced (CPU DOMAIN(CPUTRACE)) - Code CV indicates that the file contains an MVS high-speed dump and that virtual main storage seen by one MVS address space dispatched on a designated CPU is being referenced (CPU ASID) - Code DS indicates that the file contains an MVS high-speed dump and that a data space is being referenced (ASID DSPNAME) - Letter code H indicates that the file contains an MVS
					high-speed dump and that the header data for the dump is being referenced (HEADER) - Code LI refers to a literal value associated with a symbol (LITERAL) - Code SB indicates that the file contains an MVS high-speed dump and that the SDUMP 4K buffer is being referenced (DOMAIN(SDUMPBUFFER)) - Code SC indicates that the file contains an MVS high-speed dump and that component data is being referenced (COMPDATA) - Code SD indicates that the file contains an MVS high-speed dump and that the SDUMP summary dump records are being referenced (DOMAIN(SUMDUMP)) - Code SS indicates that the file contains an MVS high-speed dump and that the portion of a data space represented in summary dump records is being referenced (ASID DSPNAME SUMDUMP) - Code SV indicates that the file contains an MVS high-speed dump and that the portion of one MVS address space represented in summary dump records is being referenced (ASID SUMDUMP) (2) A binary integer whose interpretation depends on the preceding code: - For code BL this integer should be the relative block number - For code BS this integer should be the relative byte address group number - For code BT this integer should be the relative track address - For codes DS and SS this integer contains the address space identification (ASID) for the address space that owns the referenced data space. - For code LI this integer is an arbitrary number that IPCS associates with the symbolic literal. Zero is used for literals when no storage is available. - For codes beginning with the letter C this integer contains the System/370 CPU address (STAP instruction) for the referenced

Table 346. Structure SA64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		CPU or X'FFFFFFFF'. - For other codes this integer has no meaning and should be set to X'FFFFFFFF'. (3) A doubleword whose interpretation depends on the preceding code: - For code A the first fullword contains zero normally. A non-zero associated ASID may appear in the first fullword in the dump header of records written by SADUMP. The second fullword contains binary zeroes in all cases. - For codes CV and SV the first fullword is interpreted as a binary integer that contains the address space identification (ASID) for the referenced address space, and the second fullword contains binary zeroes. - For codes DS and SS the doubleword is interpreted as the DSPNAME for the referenced data space. - For code SC the doubleword is interpreted as a component identifier. - For other codes this doubleword has no meaning and should be set to zero.			
12	(C)	SIGNED	4	(0)	Align on word boundary
12	(C)	CHARACTER	16	SA64AS(0)	IPCS address space descriptor
12	(C)	CHARACTER	1	SA64AS0(0)	Begin BLSRDATS #MD03009
12	(C)	CHARACTER	2	SA64AST(0)	Address space type code
12	(C)	ADDRESS	2		Address space type code
12	(C)	X'C140'	0	ZZZASTA	"C'A '" ABSOLUTE
12	(C)	X'C2D3'	0	ZZZASTBL	"C'BL'" BLOCK
12	(C)	X'C2E2'	0	ZZZASTBS	"C'BS'" RBA
12	(C)	X'C2E3'	0	ZZZASTBT	"C'BT'" TTR
12	(C)	X'C340'	0	ZZZASTC	"C'C '" CPU STATUS
12	(C)	X'C3C5'	0	ZZZASTCE	"C'CE'" CPU DOMAIN(VECTOR)
12	(C)	X'C3D9'	0	ZZZASTCR	"C'CR'" CPU REAL
12	(C)	X'C3E3'	0	ZZZASTCT	"C'CT'" CPU DOMAIN(CPUTRACE)
12	(C)	X'C3E5'	0	ZZZASTCV	"C'CV'" CPU ASID
12	(C)	X'C4E2'	0	ZZZASTDS	"C'DS'" ASID DSPNAME
12	(C)	X'C840'	0	ZZZASTH	"C'H '" HEADER
12	(C)	X'D3C9'	0	ZZZASTLI	"C'LI'" LITERAL
12	(C)	X'4040'	0	ZZZASTNO	"C' '" No address space type code
12	(C)	X'E2C2'	0	ZZZASTSB	"C'SB'" DOMAIN(SDUMPBUFFER)
12	(C)	X'E2C3'	0	ZZZASTSC	"C'SC'" COMPDATA
12	(C)	X'E2C4'	0	ZZZASTSD	"C'SD'" DOMAIN(SUMDUMP)
12	(C)	X'E2E2'	0	ZZZASTSS	"C'SS'" ASID DSPNAME SUMDUMP
12	(C)	X'E2E5'	0	ZZZASTSV	"C'SV'" ASID SUMDUMP
14	(E)	BITSTRING	2	SA64ASH	Reserved
16	(10)	SIGNED	4	SA64AS1(0)	Integer 1
16	(10)	SIGNED	4		Integer 1
20	(14)	CHARACTER	8	SA64ASC(0)	Second qualifier
20	(14)	SIGNED	4	SA64AS2(0)	Integer 2
20	(14)	SIGNED	4		Integer 2
24	(18)	BITSTRING	4	SA64AS3	Reserved
28	(1C)	CHARACTER	1	SA64AS9(0)	End BLSRDATS #MD03009
28	(1C)	BITSTRING	8	SA64LAD	Logical address
36	(24)	SIGNED	2	(0)	Align structure on boundary
36	(24)	CHARACTER	34	SA64DT(0)	IPCS data type descriptor
36	(24)	CHARACTER	1	SA64DT0(0)	Begin BLSRDATT #MD04356

Table 346. Structure SA64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	CHARACTER	1	SA64DTY(0)	Data type code
36	(24)	ADDRESS	1		Data type code
------- The following data type codes are supported by IPCS -----					
36	(24)	X'C1'	0	ZZZDTYA	"C'A',1,C'C'" Pointer
36	(24)	X'C2'	0	ZZZDTYB	"C'B',1,C'C'" Bit
36	(24)	X'C3'	0	ZZZDTYC	"C'C',1,C'C'" Character
36	(24)	X'C5'	0	ZZZDTYE	"C'E',1,C'C'" Float
36	(24)	X'C6'	0	ZZZDTYF	"C'F',1,C'C'" Signed
36	(24)	X'C9'	0	ZZZDTYI	"C'I',1,C'C'" Instruction
36	(24)	X'D3'	0	ZZZDTYL	"C'L',1,C'C' Module @D1A"
36	(24)	X'D4'	0	ZZZDTYM	"C'M',1,C'C'" Structure
36	(24)	X'D7'	0	ZZZDTYP	"C'P',1,C'C'" Packed
36	(24)	X'E4'	0	ZZZDTYU	"C'U',1,C'C'" Area
36	(24)	X'E8'	0	ZZZDTYY	"C'Y',1,C'C'" Unsigned
36	(24)	X'E9'	0	ZZZDTYZ	"C'Z',1,C'C'" Zoned
37	(25)	BITSTRING	1		
38	(26)	CHARACTER	31	SA64DTD	Data name
69	(45)	CHARACTER	1	SA64DTE	reserved
70	(46)	CHARACTER	1	SA64DT9(0)	End BLSRDATT #MD04356
70	(46)	CHARACTER	1	SA64ELK(0)	End of logical key
70	(46)	X'46'	0	SA64LKL	"SA64ELK-SA64000" Logical key length
70	(46)	BITSTRING	2		Reserved
IPCS records the following properties for areas of storage: - The offset between an addressed byte and the physical origin of this area. - The physical length of this area. - A data type. - An indication whether the area is scalar or an array and, if the area is an array, the number of entries in the array and the subscript which applies to the first entry.					
72	(48)	SIGNED	4	(0)	Align structure on boundary
72	(48)	CHARACTER	76	SA64F(0)	IPCS attribute descriptor
72	(48)	CHARACTER	1	SA64F00(0)	Begin BLSRDATC #MD03007
72	(48)	SIGNED	8	SA64FOF(0)	Offset in bytes
72	(48)	ADDRESS	8		Offset in bytes
80	(50)	ADDRESS	8	SA64FLE	Length in bytes
88	(58)	SIGNED	1	SA64FOB	
89	(59)	SIGNED	1	SA64FLB	
90	(5A)	SIGNED	2	(0)	Align structure on boundary
90	(5A)	CHARACTER	34	SA64FT(0)	IPCS data type descriptor
90	(5A)	CHARACTER	1	SA64FT0(0)	Begin BLSRDATT #MD04356
90	(5A)	CHARACTER	1	SA64FTY(0)	Data type code
90	(5A)	ADDRESS	1		Data type code
91	(5B)	BITSTRING	1		
92	(5C)	CHARACTER	31	SA64FTD	Data name
123	(7B)	CHARACTER	1	SA64FTE	reserved
124	(7C)	CHARACTER	1	SA64FT9(0)	End BLSRDATT #MD04356
124	(7C)	BITSTRING	8	SA64FIM	Array entry count
132	(84)	BITSTRING	8	SA64FIL	Subscript of initial array entry
140	(8C)	BITSTRING	4	SA64FF	Flags
	1...			SA64FFA	"BIT0" Array

Table 346. Structure SA64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
144	(90)	BITSTRING	4		
148	(94)	CHARACTER	1	SA64F99(0)	End BLSRDATC #MD03007
Scan results--Flags, return codes, and processing summary					
148	(94)	BITSTRING	8	SA64SF(0)	Scan Flags
148	(94)	BITSTRING	1		
		1...		SA64SF1	"BIT0" Scan started
		.1..		SA64SF9	"BIT1" Scan completed
		..1.		SA64SFI	"BIT2" Initial analysis error
		...1		SA64SFS	"BIT3" Storage required for diagnostic(s)
		.... 1...		SA64SFA	"BIT4" Storage attributes unknown
		.... .1..		SA64SFM	"BIT5" Use model - no scan exit
		.... ..1.		SA64SFF	"BIT6" Find routine exists
		1		SA64SFG	"BIT7" Scan exit accepts ABITS(64) API
149	(95)	BITSTRING	3		Reserved
152	(98)	BITSTRING	8	SA64GMT	TOD clock value when scan was last performed
160	(A0)	CHARACTER	8	SA64PGV	Scan program name or model name
168	(A8)	SIGNED	1	SA64SRC	Scan result code-- 0=>Informational, 4=>Warning, 8=>Error, 12=>Serious
169	(A9)	ADDRESS	1	SA64RST	BLSRSASY subtype
169	(A9)	X'0'	0	SA64RST31	"0" BLSRSASY subtype - ABITS=31
169	(A9)	X'1'	0	SA64RST64	"1" BLSRSASY subtype - ABITS=64
170	(AA)	BITSTRING	20		Reserved
Scan processing details--Length(0:2816) characters--structured by each scan exit to match its unique requirements					
190	(BE)	CHARACTER	1	SA64C(0)	Scan routine data
190	(BE)	SIGNED	2	SA64CL	Length of remark text
190	(BE)	X'0'	0	SA64LTL	"0" Minimum remark text length
190	(BE)	X'B00'	0	SA64HTL	"2816" Maximum remark text length
192	(C0)	BITSTRING	1	SA64CT(0)	Scan routine data
3008	(BC0)	CHARACTER	1	SA64999(0)	End BLSRSASY #MD99125
3008	(BC0)	X'C0'	0	SA64LRL	"SA64CT-SA64000" Minimum record length
3008	(BC0)	X'BC0'	0	SA64HRL	"SA64999-SA64000" Maximum record length

Table 347. Cross Reference for BLSRSA64

Name	Offset	Hex Tag
SA64	0	
SA64AS	C	
SA64ASC	14	
SA64ASH	E	0
SA64AST	C	
SA64AS0	C	
SA64AS1	10	

Table 347. Cross Reference for BLSRSA64 (continued)

Name	Offset	Hex Tag
SA64AS2	14	
SA64AS3	18	0
SA64AS9	1C	
SA64C	BE	
SA64CL	BE	0
SA64CT	C0	0
SA64DT	24	
SA64DTD	26	40404040
SA64DTE	45	40
SA64DTY	24	
SA64DT0	24	
SA64DT9	46	
SA64ELK	46	
SA64F	48	
SA64FF	8C	0
SA64FFA	8C	80
SA64FIL	84	0
SA64FIM	7C	0
SA64FLB	59	0
SA64FLE	50	
SA64FOB	58	0
SA64FOF	48	
SA64FT	5A	
SA64FTD	5C	40404040
SA64FTE	7B	40
SA64FTY	5A	
SA64FT0	5A	
SA64FT9	7C	
SA64F00	48	
SA64F99	94	
SA64GMT	98	
SA64HRL	BC0	BC0
SA64HTL	BE	B00
SA64LAD	1C	0
SA64LKL	46	46
SA64LRL	BC0	C0
SA64LTL	BE	0
SA64PGV	A0	40404040
SA64RDX	8	0
SA64RID	0	E2C1
SA64RST	A9	
SA64RST31	A9	0
SA64RST64	A9	1
SA64SF	94	
SA64SFA	94	8
SA64SFF	94	2
SA64SFG	94	1
SA64SFI	94	20
SA64SFM	94	4

Table 347. Cross Reference for BLSRSA64 (continued)

Name	Offset	Hex Tag
SA64SFS	94	10
SA64SF1	94	80
SA64SF9	94	40
SA64SRC	A8	0
SA64000	0	
SA64999	BC0	
ZZZASTA	C	C140
ZZZASTBL	C	C2D3
ZZZASTBS	C	C2E2
ZZZASTBT	C	C2E3
ZZZASTC	C	C340
ZZZASTCE	C	C3C5
ZZZASTCR	C	C3D9
ZZZASTCT	C	C3E3
ZZZASTCV	C	C3E5
ZZZASTDS	C	C4E2
ZZZASTH	C	C840
ZZZASTLI	C	D3C9
ZZZASTNO	C	4040
ZZZASTSB	C	E2C2
ZZZASTSC	C	E2C3
ZZZASTSD	C	E2C4
ZZZASTSS	C	E2E2
ZZZASTSV	C	E2E5
ZZZDTYA	24	C1
ZZZDTYB	24	C2
ZZZDTYC	24	C3
ZZZDTYE	24	C5
ZZZDTYF	24	C6
ZZZDTYI	24	C9
ZZZDTYL	24	D3
ZZZDTYM	24	D4
ZZZDTYP	24	D7
ZZZDTYU	24	E4
ZZZDTYY	24	E8
ZZZDTYZ	24	E9

Chapter 72. BLSRXMSP Information

BLSRXMSP Programming Interface Information

BLSRXMSP is a programming interface.

BLSRXMSP Heading Information

Common Name:	IPCS storage map service parameter list
Macro ID:	BLSRSMSP
DSECT Name:	Not applicable
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	XMSP Offset: 0 Length: 4
Storage Attributes:	Main Storage: No Virtual Storage: No Auxiliary Storage: Yes Subpool: Not applicable Key: 8 Data Space: No Residency: LOC(ANY)
Size:	64 bytes
Created by:	User code for use by the IPCS storage map service
Pointed to by:	IPCS storage map service parameter list
Serialization:	None
Function:	This parameter list is used by IPCS exits to request services involving Storage address records.

BLSRXMSP mapping

Table 348. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'80'	0	BIT0	"128"
0	(0)	X'40'	0	BIT1	"64"
0	(0)	X'20'	0	BIT2	"32"
0	(0)	X'10'	0	BIT3	"16"
0	(0)	X'8'	0	BIT4	"8"
0	(0)	X'4'	0	BIT5	"4"
0	(0)	X'2'	0	BIT6	"2"
0	(0)	X'1'	0	BIT7	"1"

Table 349. Structure XMSP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XMSP	, IPCS storage map service parameter list
0	(0)	CHARACTER	1	XMSP000(0)	Begin BLSRXMSP #MD99116

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Table 349. Structure XMSP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
A storage map service (XMSP) parameter list contains fields pointing to a Storage Address record and a buffer address in which to place data. The type of service requested is identified in field XMSPCODE.					
0	(0)	CHARACTER	5	XMSPID(0)	Storage map service parameter identifier
0	(0)	CHARACTER	4	XMSPIDC	XMSP acronym
4	(4)	CHARACTER	1	XMSPIDL	XMSP level indicator
5	(5)	BITSTRING	3	XMSPPFLG(0)	Processing flags
5	(5)	BITSTRING	1	XMSPPFL1	First byte of flags
		1...		XMSPNOMS	"BIT0" No error or diagnostic messages to be issued
		.1..		XMSPDCS	"BIT1" Data characteristics have been supplied
		..1.		XMSPDEFR	"BIT2" Defer Scan routine
P.LDEL EQU BIT3 Used internally by OS/390 MVS					
		.... 1...		XMSPV64	"BIT4" 64-bit API for validity check
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	8	XMSPMODN	Name of module requesting the service
16	(10)	ADDRESS	4	XMSPSAR	Address of Storage Map record being processed
20	(14)	ADDRESS	4	XMSPSAL	Address of Storage Map record used in locating the control block being validity checked by the current SCAN routine
24	(18)	ADDRESS	4	XMSPBUF	Pointer to user buffer to contain accessed storage
28	(1C)	ADDRESS	4		Reserved pointer
32	(20)	ADDRESS	2	XMSPCODE	Function code bytes
32	(20)	X'1'	0	XMSPACC	"1,2,C'Y'" Access storage described by Storage Address record
32	(20)	X'2'	0	XMSPVAL	"2,2,C'Y'" Validity check storage
32	(20)	X'3'	0	XMSPDIAG	"3,2,C'Y'" Diagnose block of storage described as being in error
34	(22)	BITSTRING	34	XMSPRV2	Reserved
68	(44)	CHARACTER	1	XMSP999(0)	End BLSRXMSP #MD99116

Table 350. Cross Reference for BLSRXMSP

Name	Offset	Hex Tag
BIT0	0	80
BIT1	0	40
BIT2	0	20
BIT3	0	10
BIT4	0	8
BIT5	0	4
BIT6	0	2

Table 350. Cross Reference for BLSRXMSP (continued)

Name	Offset	Hex Tag
BIT7	0	1
XMSP	0	
XMSPACC	20	1
XMSPBUF	18	
XMSPCODE	20	0
XMSPDCS	5	40
XMSPDEFR	5	20
XMSPDIAG	20	3
XMSPID	0	
XMSPIDC	0	E7D4E2D7
XMSPIDL	4	F1
XMSPMODN	8	40404040
XMSPNOMS	5	80
XMSPPFLG	5	
XMSPPFL1	5	0
XMSPRV2	22	0
XMSPSAL	14	
XMSPSAR	10	
XMSPVAL	20	2
XMSPV64	5	8
XMSP000	0	
XMSP999	44	

Chapter 73. BLSRXSSP Information

BLSRXSSP Programming Interface Information

BLSRXSSP is a programming interface.

BLSRXSSP Heading Information

Common Name:	IPCS Symbol Service Parameter List
Macro ID:	BLSRXSSP
DSECT Name:	Selected by user of macro
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	XSSP Offset: 0 Length: 4
Storage Attributes:	Main Storage: No Virtual Storage: No Auxiliary Storage: Yes Subpool: Any that may be altered by key 8 programs Key: 8 Data Space: No Residency: LOC(ANY,ANY)
Size:	64 bytes
Created by:	Calling program in the IPCS host environment
Pointed to by:	N/A
Serialization:	None
Function:	This parameter list is used by IPCS exits to request services involving the Equate Symbol records. OPERATION = Create a mapping for BLSRXSSP

BLSRXSSP mapping

Table 351. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'80'	0	BIT0	"128"
0	(0)	X'40'	0	BIT1	"64"
0	(0)	X'20'	0	BIT2	"32"
0	(0)	X'10'	0	BIT3	"16"
0	(0)	X'8'	0	BIT4	"8"
0	(0)	X'4'	0	BIT5	"4"
0	(0)	X'2'	0	BIT6	"2"
0	(0)	X'1'	0	BIT7	"1"

Table 352. Structure XSSP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XSSP	, IPCS symbol service parameter list
0	(0)	CHARACTER	1	XSSP000(0)	Begin BLSRXSSP #MD08017

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Table 352. Structure XSSP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
A symbol service (XSSP) parameter list contains fields pointing to an Equate Symbol record and a buffer address in which to place data. The type of service requested is identified in field XSSPCODE.					
0	(0)	CHARACTER	5	XSSPID(0)	Symbol service parameter identifier
0	(0)	CHARACTER	4	XSSPIDC	XSSP acronym
4	(4)	CHARACTER	1	XSSPIDL	XSSP level indicator
5	(5)	BITSTRING	3	XSSPPFLG(0)	Processing flags
5	(5)	BITSTRING	1	XSSPPFL1	First byte of flags
		1...		XSSPNOMS	"BIT0" No error or diagnostic messages to be issued
		.1..		XSSPDCS	"BIT1" Data characteristics have been supplied
		..1.		XSSPBIT64	"BIT2" BLSRESSY structures should be returned in ABITS(64) format
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	8	XSSPMODN	Name of module requesting the service
16	(10)	ADDRESS	4	XSSPESR	Address of Equate Symbol record being processed
20	(14)	ADDRESS	4	XSSPBUF	Pointer to user buffer to contain accessed storage
24	(18)	ADDRESS	4		Reserved pointer
28	(1C)	ADDRESS	2	XSSPCODE	Function code bytes
28	(1C)	X'1'	0	XSSPEQU	"1,2,C'Y'" Store Equate Symbol record
28	(1C)	X'2'	0	XSSPGET	"2,2,C'Y'" Get Equate Symbol record for symbol passed
28	(1C)	X'3'	0	XSSPACC	"3,2,C'Y'" Access storage described by Equate Symbol record
28	(1C)	X'4'	0	XSSPACCN	"4,2,C'Y'" Resolve symbol definition and access storage
28	(1C)	X'5'	0	XSSPVAL	"5,2,C'Y'" Validity check storage
28	(1C)	X'6'	0	XSSPACTV	"6,2,C'Y'" Check for active task
28	(1C)	X'7'	0	XSSPACCV	"7,2,C'Y'" Validity check and access stg.
28	(1C)	X'8'	0	XSSPBASE	"8,2,C'Y'" Initialize BLSRESSY base
28	(1C)	X'9'	0	XSSPSTACK	"9,2,C'Y'" STACK
28	(1C)	X'A'	0	XSSPGETR	"10,2,C'Y'" GET relative
30	(1E)	ADDRESS	1	XSSPGRQ	GET relative qualifier
30	(1E)	X'0'	0	XSSPGRQ0	"0,1,C'Y'" Get relative - same symbol
30	(1E)	X'1'	0	XSSPGRQ1	"1,1,C'Y'" Get relative - 1st symbol
30	(1E)	X'2'	0	XSSPGRQ9	"2,1,C'Y'" Get relative - last symbol
30	(1E)	X'3'	0	XSSPGRQN	"3,1,C'Y'" Get relative - next symbol

Table 352. Structure XSSP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
30	(1E)	X'4'	0	XSSPGRQF	"4,1,C'Y'" Get relative - same or next
30	(1E)	X'5'	0	XSSPGRQP	"5,1,C'Y'" Get relative - previous symbol
30	(1E)	X'6'	0	XSSPGRQB	"6,1,C'Y'" Get relative - same or previous
31	(1F)	BITSTRING	33	XSSPRV2	Reserved
64	(40)	CHARACTER	1	XSSP999(0)	End BLSRXSSP #MD08017

Table 353. Cross Reference for BLSRXSSP

Name	Offset	Hex Tag
BIT0	0	80
BIT1	0	40
BIT2	0	20
BIT3	0	10
BIT4	0	8
BIT5	0	4
BIT6	0	2
BIT7	0	1
XSSP	0	
XSSPACC	1C	3
XSSPACCN	1C	4
XSSPACCV	1C	7
XSSPACTV	1C	6
XSSPBASE	1C	8
XSSPBIT64	5	20
XSSPBUF	14	
XSSPCODE	1C	0
XSSPDCS	5	40
XSSPEQU	1C	1
XSSPESR	10	
XSSPGET	1C	2
XSSPGETR	1C	A
XSSPGRQ	1E	0
XSSPGRQB	1E	6
XSSPGRQF	1E	4
XSSPGRQN	1E	3
XSSPGRQP	1E	5
XSSPGRQ0	1E	0
XSSPGRQ1	1E	1
XSSPGRQ9	1E	2
XSSPID	0	
XSSPIDC	0	E7E2E2D7
XSSPIDL	4	F1
XSSPMODN	8	40404040
XSSPNOMS	5	80
XSSPPFLG	5	
XSSPPFL1	5	0

Table 353. Cross Reference for BLSRXSSP (continued)

Name	Offset	Hex Tag
XSSPRV2	1F	0
XSSPSTACK	1C	9
XSSPVAL	1C	5
XSSP000	0	
XSSP999	40	

Chapter 74. BLSUPPR2 Information

BLSUPPR2 Programming Interface Information

BLSUPPR2 is a programming interface.

BLSUPPR2 Heading Information

Common Name:	Expanded Print Parameter List
Macro ID:	BLSUPPR2
DSECT Name:	Dynamic, supplied by user as BLSUPPR2 macro parm
Owning Component:	IPCS (SC132)
Eye-Catcher ID:	PPR2 Offset: 0 Length: 4
Storage Attributes:	Subpool: N/A Key: 8 (IPCS), 0 (SNAP) Data Space: No Residency: LOC(ANY)
Size:	56 bytes
Created by:	Invokers of IPCS expanded print service
Pointed to by:	N/A
Serialization:	N/A
Function:	Describe the type of printing function to perform.

BLSUPPR2 mapping

Table 354. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'80'	0	BIT0	"128"
0	(0)	X'40'	0	BIT1	"64"
0	(0)	X'20'	0	BIT2	"32"
0	(0)	X'10'	0	BIT3	"16"
0	(0)	X'8'	0	BIT4	"8"
0	(0)	X'4'	0	BIT5	"4"
0	(0)	X'2'	0	BIT6	"2"
0	(0)	X'1'	0	BIT7	"1"

Table 355. Structure PPR2

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PPR2	, IPCS print parameter list
0	(0)	CHARACTER	1	PPR2000(0)	Begin BLSUPPR2 #MD85283
A print service parameter list (PPR2) defines the print options desired for the data in the print buffer.					
0	(0)	CHARACTER	5	PPR2ID(0)	Control block identifier
0	(0)	CHARACTER	4	PPR2IDC	Control block acronym

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Table 355. Structure PPR2 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	CHARACTER	1	PPR2IDL	Control block level indicator
5	(5)	BITSTRING	3	PPR2PFLG(0)	Processing flags
5	(5)	BITSTRING	1	PPR2PFL1	First byte of flags
		1...		PPR2CNH	"BIT0" Conditional header request
		.1..		PPR2OCOL	"BIT1" Offset column by ADPLSCOL
		..1.		PPR2CCNH	"BIT2" Cancel conditional header request
		...1		PPR2TRUN	"BIT3" Truncate output to 1 line
		.... 1...		PPR2MSG	"BIT4" Print buffer contains a message
		.... .1..		PPR2EJEC	"BIT5" Cause page eject
		.... ..1.		PPR2NL	"BIT6" Treat X'15' as New Line request
		1		PPR2TERM	"BIT7" Only send output to the terminal
6	(6)	BITSTRING	1	PPR2PFL2	Second byte of flags
		1...		PPR2PLW	"BIT0" Use print file line width
7	(7)	BITSTRING	1		Reserved
8	(8)	ADDRESS	4	PPR2BUF	Address of buffer containing the data to be printed
12	(C)	SIGNED	4	PPR2BUFL	Length of data in the buffer to be printed
16	(10)	SIGNED	2	PPR2OVIN	Overflow indentation level
18	(12)	CHARACTER	8	PPR2TOKN	Token for identifying a conditional header
26	(1A)	CHARACTER	8	PPR2MODN	Name of module requesting the service
34	(22)	BITSTRING	22		Reserved
56	(38)	CHARACTER	1	PPR2999(0)	End BLSUPPR2 #MD85283

Table 356. Cross Reference for BLSUPPR2

Name	Offset	Hex Tag
BIT0	0	80
BIT1	0	40
BIT2	0	20
BIT3	0	10
BIT4	0	8
BIT5	0	4
BIT6	0	2
BIT7	0	1
PPR2	0	
PPR2BUF	8	
PPR2BUFL	C	0
PPR2CCNH	5	20
PPR2CNH	5	80
PPR2EJEC	5	4
PPR2ID	0	
PPR2IDC	0	D7D7D9F2
PPR2IDL	4	F1

Table 356. Cross Reference for BLSUPPR2 (continued)

Name	Offset	Hex Tag
PPR2MODN	1A	40404040
PPR2MSG	5	8
PPR2NL	5	2
PPR2OCOL	5	40
PPR2OVIN	10	2
PPR2PFLG	5	
PPR2PFL1	5	0
PPR2PFL2	6	0
PPR2PLW	6	80
PPR2TERM	5	1
PPR2TOKN	12	40404040
PPR2TRUN	5	10
PPR2000	0	
PPR2999	38	

Chapter 75. BPXYOSMF Information

BPXYOSMF Programming Interface Information

BPXYOSMF is a programming interface.

BPXYOSMF Heading Information

Common Name:	OpenMVS SMF Job/Step Accounting data mapping
Macro ID:	BPXYOSMF
DSECT Name:	OSMF
Owning Component:	OpenMVS (SCPX1)
Eye-Catcher ID:	OSMF Offset: 0 Length: 4
Storage Attributes:	Subpool: N/A Key: N/A Residency: N/A
Size:	OSMF#LENGTH
Created by:	Storage obtained by caller of BPXESMF
Pointed to by:	OsmfPtr
Serialization:	N/A
Function:	The OSMF maps the structure returned by executable macro, BPXESMF. This macro collects OpenMVS process accounting data for the current address space. Note: SMF recording must be active for Type 30 records in order for some of these values to be accumulated.

BPXYOSMF mapping

Table 357. Structure OSMF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	OSMF	
0	(0)	CHARACTER	4	OSMFID	EBCDIC ID - OSMF
4	(4)	SIGNED	1	OSMFVERSION	Version of System SMF
5	(5)	SIGNED	3	OSMFLENGTH	Length used by System SMF
8	(8)	CHARACTER	28	OSMFUSERID(0)	
8	(8)	SIGNED	4	OSMFRUID	OpenMVS real user ID number
12	(C)	SIGNED	4	OSMFRGID	OpenMVS real group ID number
16	(10)	SIGNED	4	OSMFPROCESSID	OpenMVS process ID number
20	(14)	SIGNED	4	OSMFPROCGRPID	OpenMVS process group ID number
24	(18)	SIGNED	4	OSMFSESSIONID	OpenMVS session ID number
28	(1C)	SIGNED	4	OSMFPARENTPID	OpenMVS parent process ID number
32	(20)	CHARACTER	4		Reserved
36	(24)	CHARACTER	20	OSMFKERNEL(0)	
36	(24)	BITSTRING	8	OSMFSYSTIME	Total CPU time spent in OpenMVS kernel (TOD clock format)

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Table 357. Structure OSMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
44	(2C)	SIGNED	4	OSMFSYSCALLCOUNT	Total OpenMVS callable services. This includes callable services done internally by the kernel. It does not include all trivial callable services.
48	(30)	CHARACTER	8		Reserved
56	(38)	CHARACTER	56	OSMFFILESYS(0)	
56	(38)	SIGNED	4	OSMFDIRR	Directory read I/O blocks
60	(3C)	SIGNED	4	OSMFSTDR	Standard file read I/O blocks
64	(40)	SIGNED	4	OSMFSTDW	Standard file write I/O blocks
68	(44)	SIGNED	4	OSMFCHRSR	Reserved.
72	(48)	SIGNED	4	OSMFCHRSW	Reserved.
76	(4C)	SIGNED	4	OSMFPIPER	Pipe and AF_UNIX read I/O blocks
80	(50)	SIGNED	4	OSMFPIPEW	Pipe and AF_UNIX write I/O blocks
84	(54)	SIGNED	4	OSMFLKLFS	Path name lookup calls to logical file system lookup routine
88	(58)	SIGNED	4	OSMFLKPFS	Path name lookup calls to physical file system lookup routine
92	(5C)	SIGNED	4	OSMFGNPLFS	Path name generation calls to logical file system
96	(60)	SIGNED	4	OSMFGNPPFS	Path name generation calls to physical file system lookup routine
100	(64)	SIGNED	4	OSMFSCKR	Reserved.
104	(68)	SIGNED	4	OSMFSCKW	Reserved.
108	(6C)	CHARACTER	4		reserved VERSION 1
112	(70)	CHARACTER	16	OSMFEXECPNAME	Exec'ed program name
128	(80)	CHARACTER	4		reserved VERSION 2
132	(84)	SIGNED	4	OSMFMSQSEND	Reserved.
136	(88)	SIGNED	4	OSMFMSQRCV	Reserved.
140	(8C)	SIGNED	4	OSMFSYNCCOUNT	# calls to sync() VERSION 3
140	(8C)	X'E2D4C6'	0	OSMF#ID	"C'OSMF'"
140	(8C)	X'3'	0	OSMF#VERSION	"3" Current Version of OSMF
140	(8C)	X'90'	0	OSMF#LENGTH	"*-OSMF" Length of OSMF
BPXYOSMF End					

Table 358. Cross Reference for BPXYOSMF

Name	Offset	Hex Tag
OSMF	0	
OSMF#ID	8C	E2D4C6
OSMF#LENGTH	8C	90
OSMF#VERSION	8C	3
OSMFCHRSR	44	
OSMFCHRSW	48	
OSMFDIRR	38	
OSMFEXECPNAME	70	
OSMFFILESYS	38	

Table 358. Cross Reference for BPXYOSMF (continued)

Name	Offset	Hex Tag
OSMFGNPLFS	5C	
OSMFGNPPFS	60	
OSMFID	0	
OSMFKERNEL	24	
OSMFLENGTH	5	
OSMFLKLFS	54	
OSMFLKPFS	58	
OSMFMSQRCV	88	
OSMFMSQSEND	84	
OSMFPARENTPID	1C	
OSMFPIPER	4C	
OSMFPIPEW	50	
OSMFPROCESSID	10	
OSMFPROCGRPID	14	
OSMFRGID	C	
OSMFRUID	8	
OSMFSCKR	64	
OSMFSCKW	68	
OSMFSESSIONID	18	
OSMFSTDR	3C	
OSMFSTDW	40	
OSMFSYNCCOUNT	8C	
OSMFSYSCALLCOUNT	2C	
OSMFSYSTIME	24	
OSMFUSERID	8	
OSMFVERSION	4	

Chapter 76. BPXYPEDB Information

BPXYPEDB Programming Interface Information

BPXYPEDB is a programming interface.

BPXYPEDB Heading Information

Common Name:	Mapping of the Process Exit Data Block
Macro ID:	BPXYPEDB
DSECT Name:	PEDB
Owning Component:	OpenMVS (SCPX1)
Eye-Catcher ID:	PEDB Offset: 0 Length: 4
Storage Attributes:	Subpool: N/A Key: 0 or 8 Residency: Autodata of modules used
Size:	PEDB#LEN PEDB -- X'019C' bytes
Created by:	N/A
Pointed to by:	PEDBPtr
Serialization:	N/A
Function:	Mapping of the Process Exit Data Block which is input to the following exits: BPX_PREPROC_INIT - pre-process initialization BPX_POSPROC_INIT - post process initialization BPX_IMAGE_INIT - process image change BPX_PREPROC_TERM - pre-process termination

BPXYPEDB mapping

Table 359. Structure PEDB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PEDB	PEDB - Process Exit Data Block
0	(0)	CHARACTER	4	PEDBEYE	Eye catcher - 'PEDB'
4	(4)	SIGNED	2	PEDBLENGTH	Length of structure
6	(6)	SIGNED	1	PEDBVERSION	Version number
7	(7)	SIGNED	1	PEDBEXITPOINTID	Unique value identifying exit point, these constants are defined below
8	(8)	SIGNED	4	PEDBFLAGS(0)	Flags
8	(8)	CHARACTER	1	PEDBCREATEDVIAFLAGS(0)	Bits indicating what the process is being created via
		1...		PEDBVIAFORK	"X'80'" On = process is being created via fork()
		.1..		PEDBVIASPAWN	"X'40'" On = process is being created via spawn()
		..1.		PEDBVIAATTEXEC	"X'20'" On = process is being created via attach_exec()

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Table 359. Structure PEDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		PEDBVIAATTEXECMVS	"X'10'" On = process is being created via attach_execmvs()
		.... 1...		PEDBVIA1STCALLABLE	"X'08'" On = process is being created via the 1st callable service from a non-USS address space
9	(9)	CHARACTER	1	PEDBFLAGS2(0)	2nd flag byte
		1...		PEDBVIAMEMTERM	"X'80'" On = process is being terminated via memterm
		.1..		PEDBVIAABTERM	"X'40'" On = process is being terminated via abterm
10	(A)	CHARACTER	1	PEDBFLAGS3	3rd flag byte
11	(B)	CHARACTER	1	PEDBFLAGS4	4th flag byte
12	(C)	BITSTRING	8	PEDBUNIQUEID	A Unique Id identifying this process's set of exits. This Id is the same starting at the pre-process initialization exit all the way to the pre-process term exit. It also happens to be TOD when the pre-process initial- zation exit was called.
		Information specific to Initiator of the new process (creator) This section is filled out ONLY when the following exits hit: BPX_PREPROC_INIT - pre-process initialization BPX_POSPROC_INIT - post process initialization BPX_IMAGE_INIT - process image change This section is NOT filled out by the following exits: BPX_PREPROC_TERM - pre-process termination			
20	(14)	CHARACTER	164	PEDBCREATORINFO(0)	
20	(14)	SIGNED	4	PEDBCREATORPROCID	Process ID initiating New process
24	(18)	SIGNED	2	PEDBCREATORASID	ASID of initiating new process
26	(1A)	SIGNED	1	PEDBCREATORUSERIDLEN	Length of the Userid initiating the new process
27	(1B)	SIGNED	1	PEDBCREATORALIASLEN	Length of the Alias initiating the new process
28	(1C)	SIGNED	2	PEDBCREATORPROGNAMELEN	Length of the Program Name initiating new process
30	(1E)	SIGNED	2		Reserved
32	(20)	CHARACTER	8	PEDBCREATORJOBNAME	Jobname initiating the new process
40	(28)	CHARACTER	8	PEDBCREATORUSERID	Userid initiating the new process
48	(30)	CHARACTER	8	PEDBCREATORALIAS	Alias initiating the new process
56	(38)	CHARACTER	128	PEDBCREATORPROGNAME	Program Name of the initiating new process
		New Process / Terminating Process Information (child) This section is filled out ONLY when the following exits hit: BPX_POSPROC_INIT - post process initialization BPX_IMAGE_INIT - process image change BPX_PREPROC_TERM - pre-process termination This section is NOT filled out by the following exits: BPX_PREPROC_INIT - pre-process initialization			
184	(B8)	CHARACTER	164	PEDBNEWINFO(0)	

Table 359. Structure PEDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
184	(B8)	CHARACTER	164	PEDBTERMINFO(0)	
184	(B8)	SIGNED	4	PEDBNEWPROCID(0)	Process ID of New process
184	(B8)	SIGNED	4	PEDBTERMPROCID	Process ID for the terminating process
188	(BC)	SIGNED	2	PEDBNEWASID(0)	ASID of new process
188	(BC)	SIGNED	2	PEDBTERMASID	ASID of the terminating process
190	(BE)	SIGNED	1	PEDBNEWUSERIDLEN(0)	Length of the Userid of the new process
190	(BE)	SIGNED	1	PEDBTERMUSERIDLEN	Length of the Userid of the terminating process
191	(BF)	SIGNED	1	PEDBNEWALIASLEN(0)	Length of the Alias of the new process
191	(BF)	SIGNED	1	PEDBTERMALIASLEN	Length of the Alias of the terminating process
192	(C0)	SIGNED	2	PEDBNEWPROGNAMELEN(0)	Length of the Program Name of the new process
192	(C0)	SIGNED	2	PEDBTERMPROGNAMELEN	Length of Program Name of the terminating process
194	(C2)	SIGNED	2		Reserved
196	(C4)	CHARACTER	8	PEDBNEWJOBNAME(0)	Jobname of new process
196	(C4)	CHARACTER	8	PEDBTERMJOBNAME	Jobname of terminating process
204	(CC)	CHARACTER	8	PEDBNEWUSERID(0)	Userid of the new process
204	(CC)	CHARACTER	8	PEDBTERMUSERID	Userid of the terminating process
212	(D4)	CHARACTER	8	PEDBNEWALIAS(0)	Alias of the new process
212	(D4)	CHARACTER	8	PEDBTERMALIAS	Alias of the terminating process
220	(DC)	CHARACTER	128	PEDBNEWPROGNAME(0)	Program Name of the new process
220	(DC)	CHARACTER	128	PEDBTERMPROGNAME	Program Name of the terminating process
348	(15C)	CHARACTER	64		Reserved for future use
412	(19C)	CHARACTER	1	PEDBVER1LEN(0)	End of Version 1
412	(19C)	X'C5C4C2'	0	PEDB#ID	"C'PEDB'" Eye catcher
412	(19C)	X'1'	0	PEDB#VER	"1" Current version of this control block
412	(19C)	X'1'	0	PEDB#VER01	"1" Version 1 of control block
412	(19C)	X'19C'	0	PEDB#LEN01	"412" Version 1 of PEDB control block len
412	(19C)	X'19C'	0	PEDB#LEN	"412" Length of PEDB
Constants to fill in PEDBExitPointId field					
412	(19C)	X'1'	0	PEDB_BPX_PREPROC_INIT	"1" Identifies that this this structure was built for the pre-process initiation exit
412	(19C)	X'2'	0	PEDB_BPX_POSPROC_INIT	"2" Identifies that this this structure was built for the post process initiation exit
412	(19C)	X'3'	0	PEDB_BPX_IMAGE_INIT	"3" Identifies that this this structure was built for the process image change exit
412	(19C)	X'4'	0	PEDB_BPX_PREPROC_TERM	"4" Identifies that this this structure was built for the pre-process termination
412	(19C)	X'19C'	0	PEDB_LEN	"*-PEDB"

BPXYPEDB mapping

Table 360. Cross Reference for BPXYPEDB

Name	Offset	Hex Tag
PEDB	0	
PEDB_BPX_IMAGE_INIT	19C	3
PEDB_BPX_POSPROC_INIT	19C	2
PEDB_BPX_PREPROC_INIT	19C	1
PEDB_BPX_PREPROC_TERM	19C	4
PEDB_LEN	19C	19C
PEDB#ID	19C	C5C4C2
PEDB#LEN	19C	19C
PEDB#LEN01	19C	19C
PEDB#VER	19C	1
PEDB#VER01	19C	1
PEDBCREATEDVIAFLAGS	8	
PEDBCREATORALIAS	30	
PEDBCREATORALIASLEN	1B	
PEDBCREATORASID	18	
PEDBCREATORINFO	14	
PEDBCREATORJOBNAME	20	
PEDBCREATORPROCID	14	
PEDBCREATORPROGNAME	38	
PEDBCREATORPROGNAMELEN	1C	
PEDBCREATORUSERID	28	
PEDBCREATORUSERIDLEN	1A	
PEDBEXITPOINTID	7	
PEDBEYE	0	
PEDBFLAGS	8	
PEDBFLAGS2	9	
PEDBFLAGS3	A	
PEDBFLAGS4	B	
PEDBLENGTH	4	
PEDBNEWALIAS	D4	
PEDBNEWALIASLEN	BF	
PEDBNEWASID	BC	
PEDBNEWINFO	B8	
PEDBNEWJOBNAME	C4	
PEDBNEWPROCID	B8	
PEDBNEWPROGNAME	DC	
PEDBNEWPROGNAMELEN	C0	
PEDBNEWUSERID	CC	
PEDBNEWUSERIDLEN	BE	
PEDBTERMALIAS	D4	
PEDBTERMALIASLEN	BF	
PEDBTERMASID	BC	
PEDBTERMINFO	B8	
PEDBTERMJOBNAME	C4	
PEDBTERMPROCID	B8	
PEDBTERMPROGNAME	DC	
PEDBTERMPROGNAMELEN	C0	
PEDBTERMUSERID	CC	
PEDBTERMUSERIDLEN	BE	

Table 360. Cross Reference for BPXYPEDB (continued)

Name	Offset	Hex Tag
PEDBUNIQUEID	C	
PEDBVERSION	6	
PEDBVER1LEN	19C	
PEDBVIAABTERM	9	40
PEDBVIAATTEXEC	8	20
PEDBVIAATTEXECMVS	8	10
PEDBVIAFORK	8	80
PEDBVIAMEMTERM	9	80
PEDBVIASPAWN	8	40
PEDBVIA1STCALLABLE	8	8

Chapter 77. BPXZOAPB Information

BPXZOAPB Programming Interface Information

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

- OapbDefaultGroupid
- OapbDefaultGroupidLen
- OapbDefaultUserid
- OapbDefaultUseridLen

BPXZOAPB Heading Information

Common Name:	OpenMVS address space per-process extension
Macro ID:	BPXZOAPB
DSECT Name:	N/A
Owning Component:	OpenMVS (SCPX1)
Eye-Catcher ID:	OAPB Offset: 0 Length: 4
Storage Attributes:	Subpool: 241 Key: 0, non fetch protected Residency: ECSA
Size:	Release dependent. Refer to the mapping. OAPB -- X'01B0' bytes
Created by:	OpenMVS Process Initialization (BPXPRIN1)
Pointed to by:	1) OtcbOapb, PprpOapb
Serialization:	N/A
Function:	This maps the OpenMVS extension to the ASSB.

BPXZOAPB mapping

Table 361. Structure OAPB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	OAPB	
0	(0)	CHARACTER	256	OAPB1	
	Flag byte 1 of OapbFlags				
256	(100)	CHARACTER	20	OAPB2	
256	(100)	BITSTRING	1	OAPBDEFAULTUSERIDLEN	Length of default userid
257	(101)	CHARACTER	8	OAPBDEFAULTUSERID	Default userid
265	(109)	BITSTRING	1	OAPBDEFAULTGROUPIDLEN	Length default groupid
266	(10A)	CHARACTER	8	OAPBDEFAULTGROUPID	Default groupid
274	(112)	CHARACTER	2		reserved
276	(114)	CHARACTER	156	OAPB3	
276	(114)	X'1B0'	0	OAPB_LEN	"*-OAPB"

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BPXZOAPB mapping

Table 362. Cross Reference for BPXZOAPB

Name	Offset	Hex Tag
OAPB	0	
OAPB_LEN	114	1B0
OAPBDEFAULTGROUPID	10A	
OAPBDEFAULTGROUPIDLEN	109	
OAPBDEFAULTUSERID	101	
OAPBDEFAULTUSERIDLEN	100	
OAPB1	0	
OAPB2	100	
OAPB3	114	

Chapter 78. BPXZODMV Information

BPXZODMV Programming Interface Information

BPXZODMV is a programming interface.

BPXZODMV Heading Information

Common Name:	OpenMVS Display Command Interface
Macro ID:	BPXZODMV
DSECT Name:	BPXZODMV
Owning Component:	OpenMVS (SCPX1)
Eye-Catcher ID:	ODMV Offset: 0 Length: 4
Storage Attributes:	Residency: Data Space
Size:	Release dependent. Refer to the mapping. ODMVPIPEUIDHDR -- X'0010' bytes ODMVPIPEUIDELEMNT -- X'0010' bytes ODMVPIPESUMHDR -- X'0010' bytes ODMVPIPESUMELEMNT -- X'0010' bytes ODMVSOCKET -- X'0090' bytes ODMVDYNSERV -- X'0014' bytes ODMVDYNACT -- X'0070' bytes ODMVDYNACTITEM -- X'0008' bytes ODMVMFHEADER -- X'001C' bytes ODMVMFENTRY -- X'00F0' bytes ODMVIPV6 -- X'0010' bytes ODMVCINET6 -- X'0044' bytes ODMVDWHEADER -- X'003C' bytes ODMVDWELEMENT -- X'01EC' bytes ODMVSERHDR -- X'000C' bytes ODMVSEROBJ -- X'0028' bytes ODMVSERREQ -- X'001C' bytes ODMVEXTOPTIONSDATA -- X'0070' bytes ODMVSYSL -- X'0094' bytes ODMVPRCL -- X'00AC' bytes ODMV -- X'0060' bytes ODMVOUT -- X'0670' bytes ODMVOUTARRAY -- X'0004' bytes ODMVTHDARRAY -- X'0004' bytes ODMVFILE -- X'02A8' bytes ODMVPROCESS -- X'00B4' bytes ODMVTHREADS -- X'00AC' bytes ODMVPFS -- X'01C8' bytes ODMVCINET -- X'0044' bytes ODMVUMTBHDR -- X'0008' bytes ODMVUMTBELEMNT -- X'0008' bytes
Created by:	Display OMVS Command (BPXOMAST)
Pointed to by:	Pointer passed as input parameter.
Serialization:	None
Function:	This file contains the mapping of the DISPLAY OMVS interface between BPXOMAST, BPXAMRMF and BPXODMVS

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BPXZODMV mapping

Table 363. Structure ODMV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMV	
0	(0)	CHARACTER	4	ODMVID	EBCDIC ID - ODMV
4	(4)	ADDRESS	4	ODMVOUTPTR	Address of Output area ODMVOUT
Input parm area supplied to BPXEKDA					
8	(8)	CHARACTER	88	ODMVINPUTPARMS	Input parameters
8	(8)	BITSTRING	4	ODMVINFLAGS	Input Flags (Non-mutually exclusive)
8	(8)	BITSTRING	1	ODMVINBYTE1	
Bit definitions:					
		1...		ODMVSUMMARY	"X'80'" Summary specified or defaulted
		.1..		ODMVBRLS	"X'40'" Byte Range Lock Wait for
Process. Only processed when OdmvPIDs=On					
		..1.		ODMVRESETSYSLHW	"X'20'" Reset Highwatermark of System before gathering limit data
		...1		ODMVVSERVER	"X'10'" VSERVER Specified
		.... 1...		ODMVOWNER	"X'08'" D OMVS,F,OWNER= @PEM
		.... .1..		ODMVTYPE	"X'04'" D OMVS,F,TYPE= @PEM
		.... ..1.		ODMVNAME	"X'02'" D OMVS,F,NAME= @PEM
		1		ODMVEXCEPTION	"X'01'" D OMVS,F,EXCEPTION @PEM
9	(9)	BITSTRING	1	ODMVINBYTE2	
Bit definitions:					
		1...		ODMVWLATCHES	"X'80'" D OMVS,W,LATCHES @PEM
		.1..		ODMVWMESSAGES	"X'40'" D OMVS,W,MESSAGES @PEM
		..1.		ODMVWOTHER	"X'20'" D OMVS,W,OTHER @PEM
		...1		ODMVWAGE	"X'10'" D OMVS,W,AGE @PEM
		.... 1...		ODMVWSPECIAL	"X'08'" D OMVS,W,SPECIAL @PEM
		.... .1..		ODMVFSUID	"X'04'" D OMVS,F,UID=
		.... ..1.		ODMVPIPESRESET	"X'02'" Reset Pipe HIGHWATER USER info
OdmvInFlagsM contains mutually exclusive flags. Specifying more than one is an error. BPXEKDA validates that only one flag is specified. BPXOMAST does not validate this.					
12	(C)	BITSTRING	4	ODMVINFLAGSM	Mutually Exclusive Input Flags
12	(C)	BITSTRING	1	ODMVINBYTEM1	
Bit definitions:					
		1...		ODMVFILES	"X'80'" FILE operand specified
		.1..		ODMVASIDALLS	"X'40'" ASID=ALL or VSERVER specified
		..1.		ODMVASIDS	"X'20'" ASID specified and not ALL
		...1		ODMVUS	"X'10'" User Name specified
		.... 1...		ODMVSTORAGE	"X'08'" STORAGE specified
		.... .1..		ODMVOPTIONS	"X'04'" OPTIONS specified
		.... ..1.		ODMVPIDS	"X'02'" PID specified

Table 363. Structure ODMV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		ODMVPFSBIT	"X'01'" PFS operand specified
13	(D)	BITSTRING	1	ODMVINBYTEM2	
Bit definitions:					
		1...		ODMVCINETALL	"X'80'" CINET=ALL specified
		.1..		ODMVCINETTP	"X'40'" CINET=tpname specified
		..1.		ODMVLIMITS	"X'20'" LIMITS specified. Gathers
		System or Process Limit Data. PID is set in OdmvPidParm then Process Limits are returned, else Sustem Limits.			
		...1		ODMVSER	"X'10'" SER specified. Gathers USS Serialization data
		.... 1...		ODMVSHORTMF	"X'08'" MF specified
		.... .1..		ODMVALLMF	"X'04'" MF=ALL specified
		.... ..1.		ODMVPURGEMF	"X'02'" MF=PURGE specified
		1		ODMVACTSERV	"X'01'" ACTIVATE=SERVICE
14	(E)	BITSTRING	1	ODMVINBYTEM3	
Bit definitions:					
		1...		ODMVSOCKETS	"X'80'" SOCKETS specified
		.1..		ODMVWAITERS	"X'40'" D OMVS,WAITERS
		..1.		ODMVUSRMNT	"X'20'" D OMVS,USERMOUNTS
		...1		ODMVPIPES	"X'10'" D OMVS,PIPES
		.... 1...		ODMVPIPESALL	"X'08'" D OmVS,PIPES,ALL
		.... .1..		ODMVPIPEUID	"X'04'" D OMVS,PIPES,UID=
		.... ..1.		ODMVADUBWS	"X'02'" D OMVS,ASID=DUBW
		1		ODMVSTORAGERESET	"X'01'" D OMVS,STORAGE,RESET
15	(F)	BITSTRING	1	ODMVINBYTEM4	
16	(10)	SIGNED	4	ODMVPIDPARM	PID valid when OdmvPIDs=On
20	(14)	SIGNED	2	ODMVASIDPARM	ASID valid when OdmvASIDs=On
22	(16)	CHARACTER	8	ODMVUPARM	User name valid when OdmvUd=On or sysname when OdmvOwner or type when OdmvType
30	(1E)	CHARACTER	8	ODMVCINETTPNAME	When OdmvCinetTP, this field holds tpname
38	(26)	CHARACTER	44	ODMVUPARM2	Filename valid when OdmvName is given
82	(52)	CHARACTER	2		Available
84	(54)	SIGNED	4	ODMVUIDPARM	UID value when OdmvFSuid=on | OdmvPipeUid=ON
88	(58)	CHARACTER	8	ODMVRESERVED1	Reserved @EEC
96	(60)	CHARACTER	1	ODMVINPUTEND(0)	End of Input Block
96	(60)	X'60'	0	ODMV_LEN	"*-ODMV"

Table 364. Structure ODMVOUT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVOUT	
0	(0)	SIGNED	4	ODMVVERNUM	Version Number of Output Area
4	(4)	CHARACTER	52	ODMVSUMMARYDATA	Summary data returned on all invocations

Table 364. Structure ODMVOUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	CHARACTER	8	ODMVOMVSPROC	OMVS Procedure name
12	(C)	SIGNED	4	ODMVGEN01	
12	(C)	SIGNED	2	ODMVGEN02	
14	(E)	SIGNED	2	ODMVKERNELASID	Kernel's address space
16	(10)	CHARACTER	40	ODMVPARMMEMLIST	List of OMVS Parmlib member suffixes (XX,YY,ZZ,..)
56	(38)	CHARACTER	1060	ODMVOPTIONSDATA	Options data returned for OdmvOptions
56	(38)	SIGNED	4	ODMVMAXPROCSYS	Max processes on system
60	(3C)	SIGNED	4	ODMVCHILDMAX	Max processes per User ID
64	(40)	SIGNED	4	ODMVMAXFILEPROC	Max number of allocated files for a single process
68	(44)	SIGNED	4	ODMVMAXFILESIZE	Max file size
72	(48)	SIGNED	4	ODMVMAXCPUTIME	Max CPU time
76	(4C)	SIGNED	4	ODMVMAXUSERS	Max number of users on system
80	(50)	SIGNED	4	ODMVMAXRTYS	Max number of remote-terminal sessions
84	(54)	SIGNED	4	ODMVMAXPTYS	Max number of pseudo-terminal sessions
88	(58)	SIGNED	4	ODMVMAXMMAPAREA	Max size of Memory Map Area in PAGES
92	(5C)	SIGNED	4	ODMVMAXASSIZE	Max address space size
96	(60)	SIGNED	4	ODMVMAXTHREADS	Max # of Threads
100	(64)	SIGNED	4	ODMVMAXTHREADTASKS	Max number of tasks running Pthreads per process
104	(68)	SIGNED	4	ODMVMAXCORESIZE	Max core size
108	(6C)	SIGNED	4	ODMVMAXSHRPAGES	Maximum number of pages that can be in a shared relationship in the system
112	(70)	SIGNED	4	ODMVMAXMSGNIDS	Max system message queue IDs
116	(74)	SIGNED	4	ODMVMAXMSGQBYTES	Max bytes per message queue
120	(78)	SIGNED	4	ODMVMAXMSGQMNUM	Max messages per queue
124	(7C)	SIGNED	4	ODMVMAXSHMNIDS	Max system shared memory IDs
128	(80)	SIGNED	4	ODMVMAXSHMSPAGES	Max system shared memory pages for all segements
132	(84)	SIGNED	4	ODMVMAXSHMMPAGES	Max shared memory pages per segment
136	(88)	SIGNED	4	ODMVMAXSHMNSEGS	Max shared memory segments per process
140	(8C)	SIGNED	4	ODMVMAXSEMNIDS	Max system semaphore IDs
144	(90)	SIGNED	4	ODMVMAXSEMNSEMS	Max number of semaphores per semaphore set
148	(94)	SIGNED	4	ODMVMAXSEMNOPS	Max number of operations per BPX1SOP (SEMOP) call
152	(98)	CHARACTER	8	ODMVSUPERUSER	SuperUser
160	(A0)	BITSTRING	1	ODMVSTEPLIBLISTLEN	Length of STEPLIB name
161	(A1)	CHARACTER	255	ODMVSTEPLIBLIST	Name of STEPLIB dataset
416	(1A0)	BITSTRING	1	ODMVSETPPGCNT	Priority PG count
417	(1A1)	BITSTRING	1	ODMVSETPGOALCNT	Priority Goal count
418	(1A2)	BITSTRING	1	ODMVUSERIDTABLELEN	Length of table name
419	(1A3)	CHARACTER	2	ODMVRESERVED02	Reserved
421	(1A5)	CHARACTER	255	ODMVUSERIDTABLE	Name of Userid table

Table 364. Structure ODMVOUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
676	(2A4)	SIGNED	2	ODMVPRIORITYPG	performance group numbers for compatibility mode 40 possible entries
756	(2F4)	CHARACTER	4	ODMVRESERVED10	Reserved
760	(2F8)	CHARACTER	1	ODMVGEN04(0)	Ensure array on DWD
760	(2F8)	CHARACTER	8	ODMVPRIORITYGOAL	service classes for goal mode 40 possible entries
1080	(438)	CHARACTER	4	ODMVRESERVED09	Reserved
1084	(43C)	CHARACTER	8	ODMVTTYGROUP	TTY Group name
1092	(444)	SIGNED	4	ODMVMAXQUEUEDSIGS	MaxQueuedSigs from Optn
1096	(448)	SIGNED	4	ODMVSHRLIBRGNSIZE	ShrLibRgnSize from Optn
1100	(44C)	SIGNED	4	ODMVSHRLIBMAXPAGES	ShrLibMaxPages from Optn
1104	(450)	CHARACTER	8	ODMVVERSION	OS/390 Version String
1112	(458)	SIGNED	4	ODMVFLAGWORD01	Flag word
1112	(458)	BITSTRING	1	ODMVFLAGBYTE01	
Bit definitions:					
		1...		ODMVFORKCOPY	"X'80'" ON = Copy parent data to child at the time of fork, OFF= Use Copy-on-Write for parent data (Default)
		.1..		ODMVSYSCALL_COUNTS	"X'40'" ON = counts being traced OFF= counts not being done
		..1.		ODMVSYSPLEX	"X'20'" ON= IPLed sysplex = Y OFF= local system
		...1		ODMVSETPEXIST	"X'10'" If SETP was created
		.... 1...		ODMVLIMMSGSYS	"X'08'" Level of warning messages for
		.... .1..		ODMVLIMMSGPROC	"X'04'" reached limits. Can be SYS=OFF PROC=OFF is NONE SYS=ON PROC=OFF is SYSTEM SYS=ON PROC=ON is ALL
		.... ..1.		ODMVAUTOCVT	"X'02'" AutoCvt On or Off
		1		ODMVSWAABOVE	"X'01'" SWA above if on
1113	(459)	BITSTRING	1	ODMVFLAGBYTE02	
Bit definitions:					
		1...		ODMVMAXCORESIZEBIN	"X'80'" MaxCoreSize type On = BinMult, Off = Bin
		.1..		ODMVALTROOT	"X'40'" ALTROOT Active=mounted
		..1.		ODMVUMTBBUILT	"X'20'" On = Nonprivileged user mounts table built successfully
		...1		ODMVLOSTMSG	"X'10'" LostMsg On or Off
		.... 1...		ODMVAUTOCVTALL	"X'08'" AutoCvt All
		.... .1..		ODMVKSTACKSABOVE	"X'04'" Kernal stacks above if on
1116	(45C)	CHARACTER	100	ODMVSECONDARYDATA	Secondary Output Data
1116	(45C)	SIGNED	4	ODMVOUTARRAYSIZE	Number of entries in secondary output data pointer array
1120	(460)	ADDRESS	4	ODMVOUTARRAYPTR	Address of output data pointer array
1124	(464)	SIGNED	4	ODMVTHDARRAYSIZE	Number of entries in output thread data pointer array

Table 364. Structure ODMVOUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1128	(468)	ADDRESS	4	ODMVTHDARRAYPTR	Address of thread data pointer array
1132	(46C)	CHARACTER	12	ODMVPFSCOUNTS	Counts of PFS Array entries
1132	(46C)	SIGNED	4	ODMVPFSTYPECOUNT	Number of PFS 'type' entries
1136	(470)	SIGNED	4	ODMVPFSNAMECOUNT	Number of PFS 'name' entries
1140	(474)	SIGNED	4	ODMVPFSPARMCOUNT	Number of Parm entries
1144	(478)	CHARACTER	12	ODMVCINETCOUNTS	Counts of CINET Array entries
1144	(478)	SIGNED	4	ODMVCINETHOMECNT	Number of CINET home entries
1148	(47C)	SIGNED	4	ODMVCINETHOSTCNT	Number of CINET host entries
1152	(480)	SIGNED	4	ODMVCINETNETWCNT	Number of CINET netw entries
1156	(484)	SIGNED	4	ODMVFLAGWORD02	Flag word
Bit definitions:					
		1...		ODMVPARTIAL	"X'80'" Partial thread data
		.1..		ODMVSYSLIMITS	"X'40'" Sytem Limits returned
		..1.		ODMVPRCLIMITS	"X'20'" Process Limits returned
1160	(488)	CHARACTER	8	ODMVBRLMSRV	ByterangelockMgr Server
1168	(490)	ADDRESS	4	ODMVLIMITSPTR	Address of limits data pointer When OdmvSysLimits is on it points to a structure OdmvSysL. When OdmvPrcLimits is on it points to a structure OdmvPrcL
1172	(494)	ADDRESS	4	ODMVEXTOPTDATAPTR	Address of pointer to the Extended Options Dat
1176	(498)	ADDRESS	4	ODMVIPV6PTR	Address of pointer to the OdmvIpv6 structure
1180	(49C)	ADDRESS	4	ODMVSERPTR	Address of serialization data header OdmvSerHdr
1184	(4A0)	ADDRESS	4	ODMVDYNSERVPTR	Address of ACTIVATE=SERVICE Data header OdmvDynServ
1188	(4A4)	ADDRESS	4	ODMVUSRMNTTBPTR	Address of nonprivileged user mounts table header.
1192	(4A8)	CHARACTER	24	ODMVRESERVED11	Reserved for future extensions. Consider adding only pointers to structures here !!!
1216	(4C0)	CHARACTER	432	ODMVRESERVEDDATA	Reserved Output Area for Operating System Usage
1216	(4C0)	CHARACTER	8	ODMVCBGEN06	Address of output area
1216	(4C0)	CHARACTER	8	ODMVOUTPUTALETADDR	Assembler users can use this
1216	(4C0)	SIGNED	4	ODMVOUTPUTALET	
1220	(4C4)	ADDRESS	4	ODMVOUTPUTADDR	
1224	(4C8)	CHARACTER	8	ODMVSTOKEN	Stoken of Data Space
1232	(4D0)	ADDRESS	4	ODMVODCA	Address of Odca
1236	(4D4)	SIGNED	4	ODMVRETCODE	Return Code from BPXODMVS
1240	(4D8)	SIGNED	4	ODMVCINETMSGNUM	Error Message Number
1244	(4DC)	SIGNED	4	ODMVFLAGWORD03	Flag word
Bit definitions:					
		1...		ODMVCAPS	"X'80'" CAPS Specified on D OMVS
1248	(4E0)	ADDRESS	4	ODMVPROTPGPTR	Ptr. to begin of prot. Pg.
1252	(4E4)	BITSTRING	1	ODMVAUTHPGMLISTLEN	Length of Authpgm name
1253	(4E5)	CHARACTER	255	ODMVAUTHPGMLIST	Name of Authpgm dataset
1508	(5E4)	BITSTRING	1	ODMVSERVLINKLIBLEN	Length of Serv_Linklib DS

Table 364. Structure ODMVOUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1509	(5E5)	CHARACTER	44	ODMVSERVLINKLIB	Name of Serv_Linklib DS
1553	(611)	BITSTRING	1	ODMVSERVLPALIBLEN	Length of Serv_Lpalib DS
1554	(612)	CHARACTER	44	ODMVSERVLPALIB	Name of Serv_Lpalib DS
1598	(63E)	BITSTRING	1	ODMVSERVLINKLIBVOLLEN	Length of Serv_Lpalib DS
1599	(63F)	CHARACTER	6	ODMVSERVLINKLIBVOL	Name of Serv_Lpalib DS
1605	(645)	BITSTRING	1	ODMVSERVLPALIBVOLLEN	Length of Serv_Lpalib DS
1606	(646)	CHARACTER	6	ODMVSERVLPALIBVOL	Name of Serv_Lpalib DS
1612	(64C)	SIGNED	2	ODMVCINETPORT	INADDRANYPORT
1614	(64E)	SIGNED	2	ODMVCINETCOUNT	INADDRANYCOUNT
1616	(650)	SIGNED	4	ODMVMAXIOBUFUSER	MaxIoBufUser
1620	(654)	CHARACTER	6	ODMVPWTE	PWT value SMF/ENV/SMFENV
1626	(65A)	CHARACTER	6	ODMVRESERVED03	reserved
1632	(660)	SIGNED	4	ODMVPVTSTGCURRENT	reserved
1636	(664)	SIGNED	4	ODMVPVTSTGHIGHWATER	reserved
1640	(668)	SIGNED	4	ODMVSYSSTKINUSE	reserved
1640	(668)	SIGNED	4	ODMVSYSTHDINUSE	threads in use
1644	(66C)	SIGNED	4	ODMVSYSSTKHIGHWATER	reserved
1644	(66C)	SIGNED	4	ODMVSYSTHDHIGHWATER	threads in use hw mark
1648	(670)	CHARACTER	1	ODMVEND(0)	End of Block
1648	(670)	X'670'	0	ODMVOUT_LEN	"*-ODMVOUT"

Table 365. Structure ODMVOUTARRAY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVOUTARRAY	
0	(0)	ADDRESS	4	ODMVOUTARRAYELEMPTR	
0	(0)	X'4'	0	ODMVOUTARRAY_LEN	"*-ODMVOUTARRAY"

Table 366. Structure ODMVTHDARRAY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVTHDARRAY	
0	(0)	ADDRESS	4	ODMVTHDARRAYELEMPTR	
0	(0)	X'4'	0	ODMVTHDARRAY_LEN	"*-ODMVTHDARRAY"

Table 367. Structure ODMVFILE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVFILE	
0	(0)	SIGNED	4	ODMVDEVICE	Device Name the st_dev value that is returned by the stat system call for each file in the file system.
4	(4)	CHARACTER	8	ODMVTYPENAME	File System Type name from the FILESYSTYPE parmlib statement

Table 367. Structure ODMVFILE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	SIGNED	4	ODMVSTATUS	Status matches MSG BPXO045Ie 1= FORCE UNMOUNT 2= DRAIN UNMOUNT 3= IMMEDIATE UNMOUNT 4= NORMAL UNMOUNT 5= RESET UNMOUNT 6= IMMEDIATE UNMOUNT ATTEMPTED 7= ACTIVE 8= QUIESCED 9= NOT ACTIVE 10= MOUNT IN PROGRESS 11= ASYNCH MOUNT IN PROGRESS 12= IN RECOVERY 13= UNOWNED
16	(10)	CHARACTER	8	ODMVQJOBNAME	Quiesce Job Name
24	(18)	SIGNED	4	ODMVQPID	Quiesce Process ID
28	(1C)	SIGNED	4	ODMVMOUNTMODE	Mount mode for filesystem 1 = R/W, 2 = R/O
32	(20)	CHARACTER	44	ODMVFSNAME	File System name for PDSE/X
76	(4C)	CHARACTER	63	ODMVPATH	Path or Directory name converted to upper case characters
139	(8B)	CHARACTER	57	ODMVMOUNTPARM	Mount parm truncated and optionally converted to upper case
196	(C4)	CHARACTER	8	ODMVFSOWNER	FS Owner name
204	(CC)	SIGNED	4	ODMVFSNOAUTOMOVE	1 = fs is AUTOMOVEable 2 = fs is Not AUTOMOVEable
208	(D0)	CHARACTER	8	ODMVQSYSTEM	Quiesce system
216	(D8)	SIGNED	4	ODMVFSCLIENT	1 = Yes is a client 2 = No is not a client
220	(DC)	CHARACTER	4	ODMVFSFILETAG	Mount TAG data @DNC
224	(E0)	CHARACTER	260	ODMVSYSLIST	System list
224	(E0)	SIGNED	2	ODMVSLNUM	Number of systems in list
226	(E2)	SIGNED	2		
228	(E4)	CHARACTER	8	ODMVSLNAME	System names
484	(1E4)	CHARACTER	44	ODMVAGGNAME	Aggregate Name
528	(210)	CHARACTER	8	ODMVROSECL	ROSeclabel
536	(218)	SIGNED	4	ODMVFSLATNUM	File System Latch Number
540	(21C)	SIGNED	4	ODMVFSQLATNUM	Quiesce Latch Number
544	(220)	CHARACTER	18	ODMVFSMTDATA	Mount Date,time in EBCDIC
544	(220)	CHARACTER	10	ODMVFSMTDATE	yyyy/mm/dd
544	(220)	CHARACTER	4	ODMVFSMTYEAR	yyyy
544	(220)	CHARACTER	2		yy (2004...the 20)
546	(222)	CHARACTER	2	ODMVFSMTYY	yy (2004...the 04)
548	(224)	CHARACTER	1	ODMVFSSLASH1	
549	(225)	CHARACTER	2	ODMVFSMTMONTH	mm
551	(227)	CHARACTER	1	ODMVFSSLASH2	
552	(228)	CHARACTER	2	ODMVFSMTDAY	dd
554	(22A)	CHARACTER	8	ODMVFSMTTIME	hh:mm:ss
554	(22A)	CHARACTER	2	ODMVFSHH	hh
556	(22C)	CHARACTER	1	ODMVFSDOT1	
557	(22D)	CHARACTER	2	ODMVFSMM	mm
559	(22F)	CHARACTER	1	ODMVFSDOT2	
560	(230)	CHARACTER	2	ODMVFSSS	ss
562	(232)	CHARACTER	56	ODMVFSPFSNORMALSTATUS	Pfs normal status
618	(26A)	CHARACTER	56	ODMVFSPFSEXCPSTATUS	Pfs exception status
674	(2A2)	CHARACTER	2		available

Table 367. Structure ODMVFILE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
676	(2A4)	SIGNED	4	ODMVFSUSRMNTUID	UID of user that mounted the file system. Always 0 for the privileged user mounts
676	(2A4)	X'2A8'	0	ODMVFILE_LEN	"*-ODMVFILE"

Table 368. Structure ODMVPROCESS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVPROCESS	
0	(0)	CHARACTER	8	ODMVJOBNAME	Job name from ASCBJBNI or ASCBJBNS
8	(8)	CHARACTER	8	ODMVUSER	User Name from OasbLoginName
16	(10)	SIGNED	4	ODMVPID	Process ID
20	(14)	SIGNED	4	ODMVPPID	Parent's Process ID
24	(18)	SIGNED	2	ODMVASID	Address space ID or zero for zombie state
26	(1A)	CHARACTER	5	ODMVRESERVED04	Reserved
31	(1F)	CHARACTER	7	ODMVSTARTYD	Local Start Time YYYYDDD
31	(1F)	CHARACTER	4	ODMVSTYY	Start Time Year
35	(23)	CHARACTER	3	ODMVSTDD	Start Time Day of year (1-366)
38	(26)	CHARACTER	6	ODMVSTART	Start Time hhmmss
38	(26)	CHARACTER	2	ODMVSTHH	Start Time hours
40	(28)	CHARACTER	2	ODMVSTMM	Start Time minutes
42	(2A)	CHARACTER	2	ODMVSTSS	Start Time seconds
44	(2C)	CHARACTER	8	ODMVCT	Process system and user compute time
52	(34)	BITSTRING	4	ODMVCSTATE	Process state
52	(34)	BITSTRING	1	ODMVSTATUS1	MVS status
Bit definitions:					
		1...		ODMVSWAP	"X'80'" Swapped out
		.1..		ODMVWAITP	"X'40'" Ptrace Kernel Wait
53	(35)	BITSTRING	1	ODMVSTATUS2	Process status
Bit definitions:					
		1...		ODMVSTOPPED	"X'80'" Stopped process
		.1..		ODMVGEN05	"X'40'"
		..1.		ODMVMULTHREAD	"X'20'" 0=One OpenMVS active task
		...1		ODMVPTHREAD	"X'10'" 0=No pthread task in process
		.... 1...		ODMVBLOCKREG	"X'08'" registered blocker
		.... .1..		ODMVPERMREG	"X'04'" registered permanent proc
		.... ..1.		ODMVRESPAWN	"X'02'" process started with respawn capability
		1		ODMVUTRACED	"X'01'" process being user traced
54	(36)	CHARACTER	1	ODMVSTATUS3	State of reported task - with PgpsPthread=0 the most recent created thread, PgpsPthread=1 the initial pthread task (IPT)
55	(37)	BITSTRING	1	ODMVRESERVED05	Reserved

Table 368. Structure ODMVPROCESS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	SIGNED	4	ODMVLATCHWAITPID	Latch Process ID the process is waiting for (Zero=not waiting)
60	(3C)	BITSTRING	4	ODMVGENERALFLAGS	General flags
Bit definitions:					
		1...		ODMVSERVER	"X'80'" OdmvServerInfo data is valid
64	(40)	CHARACTER	44	ODMVSERVERINFO	Server Information
64	(40)	CHARACTER	32	ODMVSERVERNAME	SabServerName SERVER=
96	(60)	SIGNED	4	ODMVACTIVEFILES	SabVDECount AF=
100	(64)	SIGNED	4	ODMVMAXFILES	SabMaxFiles MF=
104	(68)	SIGNED	4	ODMVSERVERTYPE	SabServerType TYPE= See NRegSType information in BPXYNREG for definition of Server Types.
108	(6C)	CHARACTER	40	ODMVCMD	Command String buffer
148	(94)	SIGNED	4	ODMVRUID	Process Real User Id
152	(98)	SIGNED	4	ODMVEUID	Process Effective User Id
156	(9C)	CHARACTER	8	ODMVSTORAGEINFO	STORAGE specified
156	(9C)	SIGNED	4	ODMVSTACKSINUSE	Space switch stacks in use by the process
160	(A0)	SIGNED	4	ODMVTHREADCNT	Count of pthread_created threads in process
164	(A4)	CHARACTER	8	ODMVSECLABEL	Process Seclabel
172	(AC)	CHARACTER	8	ODMVCTZIIP	Process system and user compute time on zIIP
172	(AC)	X'B4'	0	ODMVPROCESS_LEN	"*-ODMVPROCESS"

Table 369. Structure ODMVTHREADS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVTHREADS	Thread info
0	(0)	CHARACTER	8	ODMVTHDID	Thread ID
8	(8)	ADDRESS	4	ODMVTHDTCB	TCB address
12	(C)	CHARACTER	8	ODMVTHDJOBNAME	Primary Address space job name, if primary ¬= home, otherwise blanks
20	(14)	CHARACTER	8	ODMVTHDUSERNAME	User name if a task level security environment created by pthread_security_np exists, otherwise blanks
28	(1C)	SIGNED	4	ODMVTHDSYSCALL	Syscall code
32	(20)	BITSTRING	8	ODMVTHDTTIME	TCB's accumulated CPU time
40	(28)	CHARACTER	65	ODMVTHDTAG	Tag data
105	(69)	CHARACTER	1	ODMVTHDSTATUS1	Pthread created/Dubbed
106	(6A)	CHARACTER	1	ODMVTHDSTATUS2	Wait/Running status
107	(6B)	CHARACTER	1	ODMVTHDSTATUS3	Creation type
108	(6C)	CHARACTER	1	ODMVTHDSTATUS4	Detached/undetached
109	(6D)	CHARACTER	1	ODMVTHDSTATUS5	Ptrace held
110	(6E)	BITSTRING	1	ODMVTHDFLAGS	Thread flags
Bit definitions:					
		1...		ODMVTHDTAGSET	"X'80'" Thread has tag data

Table 369. Structure ODMVTHREADS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
111	(6F)	CHARACTER	1	ODMVRESERVED06	Reserved
112	(70)	CHARACTER	28	ODMVTHDBRL	Byte Range Lock Waiter Data valid for OdmvBrl only
112	(70)	SIGNED	4	ODMVTHDBRLDEVNO	Dev # of BRL Wait File
116	(74)	SIGNED	4	ODMVTHDBRLINO	Inode # of BRL Wait File
120	(78)	SIGNED	4	ODMVTHDBRLOWNERPID	BRL Wait FileOwner PID
124	(7C)	CHARACTER	16	ODMVTHDBRLFILE	BRL Wait File Name
140	(8C)	CHARACTER	32	ODMVRESERVEDDATA2	For BRLM usage only
140	(8C)	ADDRESS	4	ODMVTHDBRLOFTE	No longer used
144	(90)	ADDRESS	4	ODMVTHDBRLVNOD	For use in frbrl getlk call
152	(98)	ADDRESS	8	ODMVTHDBRLREQPTR	
160	(A0)	CHARACTER	8	ODMVTHDBRLSYSNAME	System of blocking process
168	(A8)	CHARACTER	8	ODMVTHDBRLRESERVEDATA	possible size change
176	(B0)	CHARACTER	1	ODMVTHDEND(0)	End of thread info
176	(B0)	X'B0'	0	ODMVTHREADS_LEN	"*-ODMVTHREADS"

Table 370. Structure ODMVPFS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVPFS	
0	(0)	CHARACTER	212	ODMVPFSCHARS	EBCDIC data
0	(0)	CHARACTER	8	ODMVPFSNAME	PFS name|type from the GFS
8	(8)	CHARACTER	20	ODMVPFSDESCRIPTION	Brief description of PFS
8	(8)	CHARACTER	8	ODMVPFSSOCKET	if socket, the word SOCKET
16	(10)	CHARACTER	12	ODMVPFSVFS	if socket, AF_INET, etc.
28	(1C)	CHARACTER	8	ODMVPFSENTRY	EntryPoint name
36	(24)	CHARACTER	5	ODMVPFSSTATUS	Status
41	(29)	CHARACTER	3	ODMVPFSFLAGS	Flags
44	(2C)	CHARACTER	165	ODMVPFSPARMS	Parameter data
44	(2C)	CHARACTER	1	ODMVPFSBLANK	a blank - special for HFS
45	(2D)	CHARACTER	164	ODMVGEN07	
209	(D1)	CHARACTER	3	ODMVRESERVED07	Reserved
212	(D4)	CHARACTER	28	ODMVPFSNUMS	NUMERIC data
212	(D4)	SIGNED	4	ODMVPFSMAXSOCK	MAXSOCKETS
216	(D8)	SIGNED	4	ODMVPFSOPNSOCK	Open Sockets
220	(DC)	SIGNED	4	ODMVPFSHWMSOCK	Highwater mark
224	(E0)	SIGNED	4	ODMVPFSPARMLEN	The length of OdmvPFSparms
228	(E4)	CHARACTER	8	ODMVPFSCURRENTVALUES	Data for CURRENT VALUES
228	(E4)	SIGNED	4	ODMVPFSFIXED	FIXED
232	(E8)	SIGNED	4	ODMVPFSVIRTUAL	VIRTUAL
236	(EC)	SIGNED	4	ODMVPFSRECYSTATUS	PFS Recycle status
240	(F0)	CHARACTER	8	ODMVPFSRECYTIME	hh:mm:ss Recycle time
240	(F0)	CHARACTER	2	ODMVPFSHH	hh
242	(F2)	CHARACTER	1	ODMVPFSDOT1	
243	(F3)	CHARACTER	2	ODMVPFSMM	mm
245	(F5)	CHARACTER	1	ODMVPFSDOT2	
246	(F6)	CHARACTER	2	ODMVPFSSS	ss
248	(F8)	CHARACTER	20	ODMVPFSSTARTTIME	PFS Start time
248	(F8)	CHARACTER	10	ODMVPFSDATE	Date
258	(102)	CHARACTER	1		blank space
259	(103)	CHARACTER	8	ODMVPFSTIME	Time

Table 370. Structure ODMVPFS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
267	(10B)	CHARACTER	1		blank space
268	(10C)	CHARACTER	8	ODMVPFSASNAME	ASName
276	(114)	CHARACTER	180	ODMVPFSSTATUSINFO	
276	(114)	CHARACTER	60	ODMVPFSSTLINE1	PFS Status Line 1
336	(150)	CHARACTER	60	ODMVPFSSTLINE2	PFS Status Line 2
396	(18C)	CHARACTER	60	ODMVPFSSTLINE3	PFS Status LIne 3
Constants for PFS recycle status					
396	(18C)	X'1'	0	ODMV#RECYCLING	"1"
396	(18C)	X'2'	0	ODMV#RECYCLEMOUNTING	"2"
396	(18C)	X'3'	0	ODMV#RECYCLEMOUNTSPEND	"3"
396	(18C)	X'1C8'	0	ODMVPFS_LEN	"*-ODMVPFS"

Table 371. Structure ODMVSYSL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVSYSL	
0	(0)	BITSTRING	4	ODMVSYSLFCHANGED	Flag field for changed System limits
0	(0)	BITSTRING	1	ODMVSYSLFBYTE1	
Bit definitions:					
		1...		ODMVSYSLFMAXPROCSYS	"X'80'" MaxProcSys changed
		.1..		ODMVSYSLFMAXUIDS	"X'40'" MaxUids changed
		..1.		ODMVSYSLFMAXPTYS	"X'20'" MaxPtys changed
		...1		ODMVSYSLFMAXMMAPAREA	"X'10'" MaxMmapArea changed
		.... 1...		ODMVSYSLFMAXSHRPAGES	"X'08'" MaxShrPages changed
		.... .1..		ODMVSYSLFIPCMSGNIDS	"X'04'" IpcMsgNids changed
		.... ..1.		ODMVSYSLFIPCSEMNIDS	"X'02'" IpcSemNids changed
		1		ODMVSYSLFIPCSHMNIDS	"X'01'" IpcShmNids changed
1	(1)	BITSTRING	1	ODMVSYSLFBYTE2	
Bit definitions:					
		1...		ODMVSYSLFIPCSHMSPAGES	"X'80'" IpcShmSPages changed
		.1..		ODMVSYSLFIPCMSGQBYTES	"X'40'"
		..1.		ODMVSYSLFIPCMSGQMNUM	"X'20'"
		...1		ODMVSYSLFIPCSHMMPAGES	"X'10'"
		.... 1...		ODMVSYSLFSHRLIBRGNSIZE	"X'08'" ShrLibRgnSize changed
		.... .1..		ODMVSYSLFSHRLIBMAXPAGES	"X'04'" ShrLibMaxPages changed
		.... ..1.		ODMVSYSLFMAXUSRMNTSYS	"X'02'" MAXUSERMOUNTSYS changed
		1		ODMVSYSLFMAXUSRMNTUSR	"X'01'" MAXUSERMOUNTUSER changed
2	(2)	BITSTRING	1	ODMVSYSLFBYTE3	
3	(3)	BITSTRING	1	ODMVSYSLFBYTE4	
4	(4)	SIGNED	4	ODMVSYSLMAXPROCSYSC	Current # of processes
8	(8)	SIGNED	4	ODMVSYSLMAXPROCSYSH	Highwater # of processes
12	(C)	SIGNED	4	ODMVSYSLMAXUIDSC	Current # of userids
16	(10)	SIGNED	4	ODMVSYSLMAXUIDSH	Highwater # of userids
20	(14)	SIGNED	4	ODMVSYSLMAXPTYSC	Current # of ptys in use
24	(18)	SIGNED	4	ODMVSYSLMAXPTYSH	Highwater # of ptys in use
28	(1C)	SIGNED	4	ODMVSYSLMAXMMAPAREAC	Current # of mmap pages
32	(20)	SIGNED	4	ODMVSYSLMAXMMAPAREAH	Highwater # of mmap pages
36	(24)	SIGNED	4	ODMVSYSLMAXSHRPAGESC	Current # of shared pages

Table 371. Structure ODMVSYSL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	SIGNED	4	ODMVSYSLMAXSHRPAGESH	Highwater # of shared pages
44	(2C)	SIGNED	4	ODMVSYSLIPCMSGNIDSC	Current # of message queue IDs in use
48	(30)	SIGNED	4	ODMVSYSLIPCMSGNIDSH	Highwater # of message queue IDs in use
52	(34)	SIGNED	4	ODMVSYSLIPCSEMNIDSC	Current # of semaphore IDs in use
56	(38)	SIGNED	4	ODMVSYSLIPCSEMNIDSH	Highwater # of semaphore IDs in use
60	(3C)	SIGNED	4	ODMVSYSLIPCSHMNIDSC	Current # of shared memory IDs in use
64	(40)	SIGNED	4	ODMVSYSLIPCSHMNIDSH	Highwater # of shared memory IDs in use
68	(44)	SIGNED	4	ODMVSYSLIPCSHMSPAGESC	Current # of shared memory pages in use
72	(48)	SIGNED	4	ODMVSYSLIPCSHMSPAGESH	Highwater # of shared memory pages in use
76	(4C)	SIGNED	4	ODMVSYSLIPCMSGQBYTESH	Highwater # of bytes used in a msg queue for process
80	(50)	SIGNED	4	ODMVSYSLIPCMSGQBYTESM	Maximum # of bytes allowed in a msg queue for process
84	(54)	SIGNED	4	ODMVSYSLIPCMSGQMNUMH	Highwater # of msgs used in a msg queue for process
88	(58)	SIGNED	4	ODMVSYSLIPCMSGQMNUMM	Maximum # of msgs allowed in a msg queue for process
92	(5C)	SIGNED	4	ODMVSYSLIPCSHMMPAGESH	Highwater # of shr mem pages in a segment for process
96	(60)	SIGNED	4	ODMVSYSLIPCSHMMPAGESM	Maximum # of shr mem pages allowed in segment for process
100	(64)	SIGNED	4	ODMVSYSLSHRLIBRGNSIZEC	Current usage of system shared library region
104	(68)	SIGNED	4	ODMVSYSLSHRLIBRGNSIZEH	Highwater usage of system shared library region
108	(6C)	SIGNED	4	ODMVSYSLSHRLIBMAXPAGESC	Current # of pages of user shared library region
112	(70)	SIGNED	4	ODMVSYSLSHRLIBMAXPAGESH	Highwater # of pages of user shared library pgms
116	(74)	SIGNED	4	ODMVSYSLIPCSHMMPAGESMBM	Maximum # of shr mem pages allowed in segment for process in BinMult form
120	(78)	SIGNED	4	ODMVSYSLMAXUSRMNTSYSCUR	Current # of MAXUSERMOUNTSYS
124	(7C)	SIGNED	4	ODMVSYSLMAXUSRMNTSYSHW	HighWater mark of MAXUSERMOUNTSYS
128	(80)	SIGNED	4	ODMVSYSLMAXUSRMNTUSRCUR	Current # of MAXUSERMOUNTUSER
132	(84)	SIGNED	4	ODMVSYSLMAXUSRMNTUSRHW	HighWater mark of MAXUSERMOUNTUSER
136	(88)	SIGNED	4	ODMVSYSLMAXPIPESLMT	MAXPIPES Limit needed here because not a BPXPRMxx option
140	(8C)	SIGNED	4	ODMVSYSLMAXPIPESCUR	Current usage of Pipe PFS Queues
144	(90)	SIGNED	4	ODMVSYSLMAXPIPESHW	Highwater usage of Pipe PFS Queues
144	(90)	X'94'	0	ODMVSYSL_LEN	"*-ODMVSYSL"

Table 372. Structure ODMVPRCL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVPRCL	
0	(0)	BITSTRING	4	ODMVPRCLFCHANGED	Flag field for changed process limits
0	(0)	BITSTRING	1	ODMVPRCLFBYTE1	
Bit definitions:					
		1...		ODMVPRCLFMAXASSIZE	"X'80'" RESERVED MaxAsSize changed
		.1..		ODMVPRCLFMAXCPU	"X'40'" RESERVED MaxCpu changed
		..1.		ODMVPRCLFMAXFILEPROC	"X'20'" MaxFileProc changed
		...1		ODMVPRCLFMAXPROCUSER	"X'10'" MaxProcUser changed
		.... 1...		ODMVPRCLFMAXQUEUEDSIGS	"X'08'" MaxQueuedSigs changed
		.... .1..		ODMVPRCLFMAXTHREADS	"X'04'" MaxThreads changed
		.... ..1.		ODMVPRCLFMAXTHREADTASKS	"X'02'" MaxThreadTasks changed
		1		ODMVPRCLFIPCSHMNSEGS	"X'01'" IpcShmNSegs changed
1	(1)	BITSTRING	1	ODMVPRCLFBYTE2	
Bit definitions:					
		1...		ODMVPRCLFCORESIZSBIN	"X'80'" Soft Core value is bin
		.1..		ODMVPRCLFMAXFILESIZE	"X'40'" MaxFileSize changed
		..1.		ODMVPRCLFMAXMEMLIMIT	"X'20'" MaxMemLimit changed
		...1		ODMVPRCLFMAXMLIMITSET	"X'10'" Set MaxMemLimit
		.... 1...		ODMVPRCLFMAXMEMLSBIN	"X'08'" Soft MLimit value is bin
		.... .1..		ODMVPRCLFMAXMEMLHBIN	"X'04'" Hard MLimit value is bin
		.... ..1.		ODMVPRCLFMAXCORESIZE	"X'02'" MaxCoreSize changed
2	(2)	BITSTRING	1	ODMVPRCLFBYTE3	
Bit definitions:					
		1...		ODMVPRCLFCORESIZHBIN	"X'80'" Hard Core value is bin
3	(3)	BITSTRING	1	ODMVPRCLFBYTE4	
4	(4)	SIGNED	4	ODMVPRCLMAXASSIZEC	RESERVED Current user region usage for address space
8	(8)	SIGNED	4	ODMVPRCLMAXASSIZEH	RESERVED Highw. user region usage for address space
12	(C)	SIGNED	4	ODMVPRCLMAXASSIZEM	RESERVED Max. user region size for address space
16	(10)	SIGNED	4	ODMVPRCLMAXCPUC	RESERVED Current CPU usage for address space
20	(14)	SIGNED	4	ODMVPRCLMAXCPUH	RESERVED Highwater CPU usage for address space
24	(18)	SIGNED	4	ODMVPRCLMAXCPUM	RESERVED Max. CPU usage for address space
28	(1C)	SIGNED	4	ODMVPRCLMAXFILEPROCC	Current # of files in use for process
32	(20)	SIGNED	4	ODMVPRCLMAXFILEPROCH	Highwater # of files in use for process
36	(24)	SIGNED	4	ODMVPRCLMAXFILEPROCMSL	Soft Maximum # of files allowed for process
40	(28)	SIGNED	4	ODMVPRCLMAXFILEPROCMHL	Hard Maximum # of files allowed for process
44	(2C)	SIGNED	4	ODMVPRCLMAXFILESIZEMSL	Soft Maximum size of files allowed for process
48	(30)	SIGNED	4	ODMVPRCLMAXFILESIZEMHL	Hard Maximum size of files allowed for process

Table 372. Structure ODMVPRCL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	SIGNED	4	ODMVPRCLMAXPROCUSERC	Current # of processes for user
56	(38)	SIGNED	4	ODMVPRCLMAXPROCUSERH	Highwater # of processes for user
60	(3C)	SIGNED	4	ODMVPRCLMAXPROCUSERM	Maximum # of processes allowed for user
64	(40)	SIGNED	4	ODMVPRCLMAXQUEUEDSIGSC	Current # of queued signals for process
68	(44)	SIGNED	4	ODMVPRCLMAXQUEUEDSIGSH	Highwater # of queued sigs for process
72	(48)	SIGNED	4	ODMVPRCLMAXQUEUEDSIGSM	Maximum # of queued signals for process
76	(4C)	SIGNED	4	ODMVPRCLMAXTHREADSC	Current # of threads for process
80	(50)	SIGNED	4	ODMVPRCLMAXTHREADSH	Highwater # of threads for process
84	(54)	SIGNED	4	ODMVPRCLMAXTHREADSM	Maximum # of threads for process
88	(58)	SIGNED	4	ODMVPRCLMAXTHREADTASKSC	Current # of thd tasks for process
92	(5C)	SIGNED	4	ODMVPRCLMAXTHREADTASKSH	Highwater # of thd tasks for process
96	(60)	SIGNED	4	ODMVPRCLMAXTHREADTASKSM	Maximum # of thd tasks for process
100	(64)	SIGNED	4	ODMVPRCLIPCSHMNSEGSC	Current # of shr mem allowed segments in a process
104	(68)	SIGNED	4	ODMVPRCLIPCSHMNSEGSH	Highwater shr mem allowed segments in a process
108	(6C)	SIGNED	4	ODMVPRCLIPCSHMNSEGSM	Maximum # of shr mem allowed segments in a process
112	(70)	SIGNED	4	ODMVPRCLMAXCORESIZEMSL	Max Size core dumps SOFT
	See OdmvPrcLFCoreSizSBin, off - fullword Binary value, on - binary value with a multiplier				
116	(74)	SIGNED	4	ODMVPRCLMAXCORESIZEMHL	Max Size core dumps HARD
	See OdmvPrcLFCoreSizHBin, off - fullword Binary value, on - binary value with a multiplier				
120	(78)	CHARACTER	8	ODMVPRCLMAXMEMLIMITCDW	Current process memlimit
120	(78)	SIGNED	4	ODMVPRCLMAXMEMLIMITCH	
124	(7C)	SIGNED	4	ODMVPRCLMAXMEMLIMITCL	
128	(80)	CHARACTER	8	ODMVPRCLMAXMEMLIMITHDW	High process memlimit
128	(80)	SIGNED	4	ODMVPRCLMAXMEMLIMITHH	
132	(84)	SIGNED	4	ODMVPRCLMAXMEMLIMITHL	
136	(88)	SIGNED	4	ODMVPRCLMAXMEMLIMITMDWS	
	asid memlimit soft See OdmvPrcLFMaxMemLSBin, off - fullword Binary value, on - binary value with a multiplier				
136	(88)	SIGNED	3	ODMVPRCLMAXMEMLIMITMDWSBIN	binary value
139	(8B)	CHARACTER	1	ODMVPRCLMAXMEMLIMITMDWSM	Multiplier
140	(8C)	SIGNED	4	ODMVPRCLMAXMEMLIMITMDWH	
	asid memlimit hard See OdmvPrcLFMaxMemLSBin, off - fullword Binary value, on - binary value with a multiplier				
140	(8C)	SIGNED	3	ODMVPRCLMAXMEMLIMITMDWHBIN	binary value
143	(8F)	CHARACTER	1	ODMVPRCLMAXMEMLIMITMDWHM	Multiplier
144	(90)	SIGNED	4	ODMVMAXFILESIZEMHLBINM	

Table 372. Structure ODMVPRCL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		BinMult version of MaxFileSize hardlimit. Valid only if equal to OdmvPrcLMaxFileSizeMHL. This is how it was entered via SETOMVS.			
148	(94)	SIGNED	4	ODMVMAXFILESIZEMSLBINM	
		BinMult version of MaxFileSize softlimit. Valid only if equal to OdmvPrcLMaxFileSizeMSL. This is how it was entered via SETOMVS.			
152	(98)	CHARACTER	20		Reserved for future use
152	(98)	X'AC'	0	ODMVPRCL_LEN	"*-ODMVPRCL"

Table 373. Structure ODMVEXTOPTIONSDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVEXTOPTIONSDATA	
0	(0)	SIGNED	4	ODMVRESPROCLEN	Length of String
4	(4)	CHARACTER	8	ODMVRESPROCNAME	Name of Resolver started procedure or NONE/RESOLVER
12	(C)	SIGNED	4	ODMVMAXFILESIZEBINM	MaxFileSize BinMult
12	(C)	SIGNED	3	ODMVMAXFILESIZEBIN	Bin part of BinMult
15	(F)	CHARACTER	1	ODMVMAXFILESIZEM	Multiplier part of BinM
16	(10)	SIGNED	4	ODMVMAXCORESIZEBINM	MaxCoreSize BinMult
16	(10)	SIGNED	3	ODMVMAXCORESIZEB	Bin part of BinMult
19	(13)	CHARACTER	1	ODMVMAXCORESIZEM	Multiplier part of BinM
20	(14)	SIGNED	4	ODMVMAXASSIZEBINM	MaxASSize BinMult
20	(14)	SIGNED	3	ODMVMAXASSIZEBIN	Bin part of BinMult
23	(17)	CHARACTER	1	ODMVMAXASSIZEM	Multiplier part of BinM
24	(18)	SIGNED	4	ODMVMAXMMAPAREABINM	MaxMMapArea BinMult
24	(18)	SIGNED	3	ODMVMAXMMAPAREABIN	Bin part of BinMult
27	(1B)	CHARACTER	1	ODMVMAXMMAPAREAM	Multiplier part of BinM
28	(1C)	SIGNED	4	ODMVMAXSHRPAGESBINM	MaxShrPages BinMult
28	(1C)	SIGNED	3	ODMVMAXSHRPAGESBIN	Bin part of BinMult
31	(1F)	CHARACTER	1	ODMVMAXSHRPAGESM	Multiplier part of BinM
32	(20)	SIGNED	4	ODMVMAXSHMSPAGESBM	MaxIPCSHMSPages BinMult
32	(20)	SIGNED	3	ODMVMAXSHMSPAGESBIN	Bin part of BinMult
35	(23)	CHARACTER	1	ODMVMAXSHMSPAGESM	Multiplier part of BinM
36	(24)	SIGNED	4	ODMVMAXSHMMPAGESBM	MaxIPCSHMMPages BinMult
36	(24)	SIGNED	3	ODMVMAXSHMMPAGESBIN	Bin part of BinMult
39	(27)	CHARACTER	1	ODMVMAXSHMMPAGESM	Multiplier part of BinM
40	(28)	CHARACTER	44	ODMVALTROOTFS	ALTROOT FS Name
84	(54)	SIGNED	4	ODMVUSERMNTSSYSLIMIT	USERMOUNTS - Sys Limit
88	(58)	SIGNED	4	ODMVUSERMNTSUSRLIMIT	USERMOUNTS - Usr Limit
92	(5C)	BITSTRING	1	ODMVNONEMPTYMNTPT	NONEMPTYMOUNTPT
93	(5D)	CHARACTER	3		Reserved
96	(60)	SIGNED	4	ODMVMAXPIPEUSER	MAXPIPEUSER
100	(64)	CHARACTER	12		Reserved
100	(64)	X'70'	0	ODMVEXTOPTIONSDATA_LEN	"*-ODMVEXTOPTIONSDATA"

Table 374. Structure ODMVIPV6

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVIPV6	IPV6 Data
0	(0)	SIGNED	4	ODMVCINETHOMECNT6	Number of CINET6 home.
4	(4)	SIGNED	4	ODMVCINETHOSTCNT6	Number of CINET6 host.
8	(8)	SIGNED	4	ODMVCINETNETWCNT6	Number of CINET6 net.
12	(C)	ADDRESS	4	ODMVCINET6PTR	Ptr to the first OdmvCinet6 in OdmvOutPut area.
Declare Constants for the PFS output data:					
12	(C)	X'C6E240'	0	ODMVPFS#HFS_0TO3	"C'HFS '" This is the first 4-byte segment of an 8-byte constant.
12	(C)	X'404040'	0	ODMVPFS#HFS_4TO7	"C' '" This is the second 4-byte segment of an 8-byte constant.
12	(C)	X'10'	0	ODMVIPV6_LEN	"*-ODMVIPV6"

Table 375. Structure ODMVCINET

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVCINET	
0	(0)	CHARACTER	8	ODMVCINETETPNAME	Tp name
8	(8)	CHARACTER	12	ODMVCINETHOME@	Home IP address in EBCDIC
8	(8)	CHARACTER	8		Not Specified
16	(10)	CHARACTER	4	ODMVCINETRTYPE	Host and Net route Type
20	(14)	CHARACTER	12	ODMVCINETHOST@	Host IP address in EBCDIC
32	(20)	CHARACTER	12	ODMVCINETNETW@	Net IP address in EBCDIC
44	(2C)	CHARACTER	12	ODMVCINETMASK	Net Mask in EBCDIC
56	(38)	SIGNED	4	ODMVCINETMETRIC	Metric
60	(3C)	CHARACTER	3	ODMVCINETFLAGS	Flags
63	(3F)	BITSTRING	1	ODMVRESERVED08	Reserved
Bit definitions:					
	1			ODMVCINETHIFACTIVE	"X'01'" On=active Off=Inactive
64	(40)	SIGNED	4	ODMVCINETHOMEIF@	Home Interface @ in Hex
64	(40)	X'44'	0	ODMVCINET_LEN	"*-ODMVCINET"

Table 376. Structure ODMVCINET6

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVCINET6	
0	(0)	CHARACTER	8	ODMVCINET6ETPNAME	Tp name
8	(8)	CHARACTER	32	ODMVCINET6IPV6@	IPV6 Address in EBCDIC
40	(28)	CHARACTER	12	ODMVCINET6PLEN	Net Prefix Length
52	(34)	SIGNED	4	ODMVCINET6METRIC	Metric
56	(38)	CHARACTER	3	ODMVCINET6FLAGS	Flags for display
59	(3B)	BITSTRING	1	ODMVCINET6BITS	Flags for testing
Bit definitions:					
	.... .1..			ODMVCINET6HOME	"X'04'" Home route
	.... ..1.			ODMVCINET6HOST	"X'02'" Host route
	1			ODMVCINET6NET	"X'01'" Net route
60	(3C)	CHARACTER	4	ODMVCINET6RTYPE	Host and Net Route Type

Table 376. Structure ODMVCINET6 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
64	(40)	CHARACTER	4		Must be as long as OdmvCinet
64	(40)	X'44'	0	ODMVCINET6_#LEN	"68"
64	(40)	X'44'	0	ODMVCINET6_LEN	"*-ODMVCINET6"

Table 377. Structure ODMVSERHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVSERHDR	Serialization Header
0	(0)	SIGNED	4	ODMVSERVERNUM	Version Number Of SER Data
4	(4)	SIGNED	4	ODMVSERRESCNT	Number of resources
8	(8)	ADDRESS	4	ODMVSERRESPTR	Ptr to the first OdmvSerObj structure. Each Subsequent odmvSerObj element follows sequentially in storage after the last OdmvSerReq entry for the prior OdmvSerObj element.
8	(8)	X'C'	0	ODMVSERHDR_LEN	"*-ODMVSERHDR"

Table 378. Structure ODMVSEROBJ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVSEROBJ	
0	(0)	CHARACTER	8	ODMVSERTYPE	Resource Type
8	(8)	SIGNED	4	ODMVSERREQCNT	Number of requestor entries
12	(C)	SIGNED	4	ODMVSERLOCID	Resource Location, for a Mutex or Condvar this will be a shared memory ID
16	(10)	CHARACTER	8	ODMVSERADDR	Resource Address, for a Mutex or Condvar this will be a shared memory segment offset
16	(10)	ADDRESS	4	ODMVSERADDRHI	High end of address
20	(14)	ADDRESS	4	ODMVSERADDRLO	Low end of address
24	(18)	SIGNED	4	ODMVSERLOCIDA	Resource Location - For a Condvar this will be the associated mutex's shared memory ID
28	(1C)	CHARACTER	8	ODMVSERADDRA	Resource Address - For a Condvar this will be the associated mutex's shared memory segment offset
28	(1C)	ADDRESS	4	ODMVSERADDRHIA	High end of address
32	(20)	ADDRESS	4	ODMVSERADDRLOA	Low end of address
36	(24)	ADDRESS	4	ODMVSERREQPTR	Ptr to the 1st OdmvSerReq area Subsequent OdmvSerReq areas following sequentially in storage.
36	(24)	X'28'	0	ODMVSEROBJ_LEN	"*-ODMVSEROBJ"

Table 379. Structure ODMVUMTBHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVUMTBHDR	Header of nonprivileged user mounts table
0	(0)	SIGNED	4	ODMVUMTBELECNT	+00 Number of elements in OdmvUmTbElemnt
4	(4)	ADDRESS	4	ODMVUMTBARRAYPTR	+04 Address of nonprivileged user mounts table
4	(4)	X'8'	0	ODMVUMTBHDR_LEN	"*-ODMVUMTBHDR"

Table 380. Structure ODMVUMTBELEMNT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVUMTBELEMNT	Nonprivileged user mounts table. Element(0) is for the privileged user mnts
0	(0)	SIGNED	4	ODMVUMTBUID	+00 UID who did mounts
4	(4)	SIGNED	4	ODMVUMTBCOUNTS	+04 number of file systems
4	(4)	X'8'	0	ODMVUMTBELEMNT_LEN	"*-ODMVUMTBELEMNT"

Table 381. Structure ODMVPIPESUMHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVPIPESUMHDR	Header of PIPE usage summary information
0	(0)	SIGNED	4	ODMVPSHELECNT	+00 Number of elements in OdmvPipeSumElemnt
4	(4)	ADDRESS	4	ODMVPSHELETABPTR	+04 Address of Pipe summary usage table
8	(8)	SIGNED	4	ODMVPSHFLAGS	+08 Control information
Bit definitions:					
		1...		ODMVPSHHWUSAGE	"X'80'" 1-indicates first element in the table is the HIGHWATER USER info 0-indicates no HIGHWATER USER info in the table. (Most likely due to a RESET
12	(C)	SIGNED	4	ODMVPSHMAXPIPEUSER	+0C MAXPIPEUSER value
12	(C)	X'10'	0	ODMVPIPESUMHDR_LEN	"*-ODMVPIPESUMHDR"

Table 382. Structure ODMVPIPESUMELEMNT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVPIPESUMELEMNT	Pipe Summary Usage information. Element(1) is the HIGHWATER USER info if OdmvPshHwUsage is set
0	(0)	SIGNED	4	ODMVPSEUID	+00 Real UID of creator
4	(4)	SIGNED	2	ODMVPSEACTCNT	+04 Current pipe usage
6	(6)	SIGNED	2	ODMVPSEHWCNT	+06 Highwater usage
8	(8)	CHARACTER	8	ODMVPSEUSERID	+08 USERID of pipe creator
8	(8)	X'10'	0	ODMVPIPESUMELEMNT_LEN	"*-ODMVPIPESUMELEMNT"

BPXZODMV mapping

Table 383. Structure ODMVPIPEUIDHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVPIPEUIDHDR	Header of PIPE usage detailed UID (PIPES,U=) info
0	(0)	SIGNED	4	ODMVPUTOTCNT	+00 Total pipe usage for the specified UID
4	(4)	SIGNED	4	ODMVPUELECNT	+04 Number of elements in OdmvPipeUidElemnt
8	(8)	ADDRESS	4	ODMVPUELETABPTR	+08 Address of Pipe UID usage table
12	(C)	BITSTRING	4	ODMVPUFLAGS	+0C Control flags
Bit definitions:					
		1...		ODMVPUMORE	"X'80'" PID entries excluded due to table size limit
16	(10)	X'10'	0	ODMVPIPEUIDHDR_LEN	"*-ODMVPIPEUIDHDR"

Table 384. Structure ODMVPIPEUIDELEMNT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVPIPEUIDELEMNT	Pipe UID Usage information.
0	(0)	SIGNED	4	ODMVPUPID	+00 Process ID
4	(4)	SIGNED	4	ODMVPUACTCNT	+04 Current PID pipe usage
8	(8)	CHARACTER	8	ODMVPUSYSNAME	+08 System NAME associated with this PID
8	(8)	X'A'	0	ODMVPIPEUID#MAXENT	"10" Maximum number of OdmvPipeUidElemnt s
Declare Constants for the OdmvSer Output data:					
8	(8)	X'E4E3C5'	0	ODMVSER#MUTEX_0TO3	"C'MUTE'" This is the first 4-byte segment of an 8-byte constant.
8	(8)	X'404040'	0	ODMVSER#MUTEX_4TO7	"C'X '" This is the second 4-byte segment of an 8-byte constant.
8	(8)	X'D6D5C4'	0	ODMVSER#CONDVAR_0TO3	"C'COND'" This is the first 4-byte segment of an 8-byte constant.
8	(8)	X'C1D940'	0	ODMVSER#CONDVAR_4TO7	"C'VAR '" This is the second 4-byte segment of an 8-byte constant.
8	(8)	X'1'	0	ODMVSERVER#01	"1"
8	(8)	X'10'	0	ODMVPIPEUIDELEMNT_LEN	"*-ODMVPIPEUIDELEMNT"

Table 385. Structure ODMVSERREQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVSERREQ	
0	(0)	SIGNED	2	ODMVSERFLAGS	Requestor Flags
Bit definitions:					
		1...		ODMVSEROWNER	"X'80'" 1=Owner of resource
		.1..		ODMVSERWAITER	"X'40'" 1=Waiter for resource
		..1.		ODMVSEREXC	"X'20'" 1=Exclusive request

Table 385. Structure ODMVSERREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		ODMVSERSHR	"X'10'" 1=Shared request
2	(2)	SIGNED	2	ODMVSERASID	Requestor Address Space ID
4	(4)	CHARACTER	8	ODMVSERJOBNAME	Requestor Jobname
12	(C)	SIGNED	4	ODMVSERPID	Requestor Process ID
16	(10)	ADDRESS	4	ODMVSERTCB	Requestor Tcb Address
20	(14)	CHARACTER	8	ODMVSERUSERDATA	Requestor User Data
20	(14)	ADDRESS	4	ODMVSERUSERDATAHI	
24	(18)	ADDRESS	4	ODMVSERUSERDATALO	
24	(18)	X'1C'	0	ODMVSERREQ_LEN	"*-ODMVSERREQ"

Table 386. Structure ODMVDWHEADER

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVDWHEADER	
0	(0)	ADDRESS	4	ODMVDWHMLHCNT	1 = There's a mount latch holder
4	(4)	ADDRESS	4	ODMVDWHMLHPTR	Address of Holder's Element
8	(8)	SIGNED	4	ODMVDWHMLWCNT	Number of mount latch waiters
12	(C)	ADDRESS	4	ODMVDWHMLWPTR	Address of 1st Waiter's Element
16	(10)	SIGNED	4	ODMVDWHXSENTCNT	Number of SENT xsys messages
20	(14)	ADDRESS	4	ODMVDWHXSENTPTR	Address of 1st "SENT" Element
24	(18)	SIGNED	4	ODMVDWHXRECVCNT	Number of RECEIVED xsys msgs
28	(1C)	ADDRESS	4	ODMVDWHXRECVPTR	Address of 1st "RECV" Element
32	(20)	BITSTRING	2	ODMVDWHFLAGS	Header Flags @E2C
32	(20)	BITSTRING	1	ODMVDWHFLAGS1	Flags Byte 1 @05A
Bit definitions:					
		1...		ODMVDWHSYSPLEX	"X'80'" 1 = Member of a Sysplex
33	(21)	BITSTRING	1	ODMVDWHFLAGS2	Flags Byte 2
33	(21)	BITSTRING	1	ODMVDWHDRLEN	Header Length not used @05C
33	(21)	BITSTRING	1	ODMVDWHVERSION	Version of waiters area
34	(22)	SIGNED	2	ODMVDWHELEN	Element Length, for growth
36	(24)	SIGNED	4	ODMVDWHVLCCNT	Number of Vfs latches causing contention
40	(28)	ADDRESS	4	ODMVDWHVLHPTR	Address of 1st VFS holder
44	(2C)	SIGNED	4	ODMVDWHOWTCNT	Number of other waiting threads
48	(30)	ADDRESS	4	ODMVDWHOWTPTR	Address of 1st other waiters
52	(34)	SIGNED	4	ODMVDWHFLCCNT	Number of file latches causing contention
56	(38)	ADDRESS	4	ODMVDWHFLHPTR	Address of 1st file latch holderEAA
56	(38)	X'3C'	0	ODMVDWHEAD_#LEN	"60"
56	(38)	X'0'	0	ODMVDWHVERSION#ZERO	"0" Original waiters display
56	(38)	X'1'	0	ODMVDWHVERSION#ONE	"1" File system latch and Other Waiters table
56	(38)	X'2'	0	ODMVDWHVERSION#TWO	"2" New OdmvDWeVLHLatNum var
56	(38)	X'3'	0	ODMVDWHVERSION#THREE	"3" File latch holders/waiters
56	(38)	X'3C'	0	ODMVDWHEADER_LEN	"*-ODMVDWHEADER"

Table 387. Structure ODMVDWELEMENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVDWELEMENT	Mount Latch / Xsys Elem
HOLDER IS DOING:					
0	(0)	CHARACTER	8	ODMVDWEPFSNAME	Pfs Name / Glue Exit Name
8	(8)	CHARACTER	12	ODMVDWEOP	Vfs or Vnod Operation
20	(14)	CHARACTER	16	ODMVDWESTATE	State of operation
OdmvDWeLatNum renamed to OdmvDWeLatWaitNum to clarify its use. OdmvDWeLatWaitNum should be used to obtain the latch number when OdmvDWeState indicates that the thread is in a latch wait. Use OdmvDWeVLHLatNum for the latch number of a file system latch holder causing contention.					
36	(24)	SIGNED	4	ODMVDWELATNUM	Latch Number
36	(24)	SIGNED	4	ODMVDWELATWAITNUM	New name
40	(28)	CHARACTER	9	ODMVDWESYSNAME	BROADCAST or Xsys Member Name
40	(28)	CHARACTER	8	ODMVDWESYSNAME8	8 char member name
48	(30)	CHARACTER	1	ODMVDWESYSNAME1	T when BROADCAST or blank
common section for the latch holder, waiters and XSYS Message.					
49	(31)	BITSTRING	1	ODMVDWEFLAGS	Flags
Bit definitions:					
		1...		ODMVDWEFLAGFS	"X'80'" 1 = OdmvDweFileSys has name
		.1..		ODMVDWEFLAG99	"X'40'" 1 = OdmvDweHrs > 99
		..1.		ODMVDWELATCH	"X'20'" 1 = Holder has latch number
		...1		ODMVDWEISDOING	"X'10'" 1 = display ID DOING data
		.... 1...		ODMVDWELATACC	"X'08'" 1 = Latch held EXCL for HOLDING line
		.... .1..		ODMVDWEVFSACC	"X'04'" 1 = Latch held EXCL for File system latch table
		.... ..1.		ODMVDWEISVFSHOLDER	"X'02'" 1 = Vfs table holder
		1		ODMVDWEVNODFILEOP	"X'01'" 1 = display FILE data
50	(32)	SIGNED	2	ODMVDWEASID	Asid of holder,waiter,XSYS
52	(34)	CHARACTER	8	ODMVDWEUSERID	Userid of holder,waiter,XSYS
60	(3C)	CHARACTER	8	ODMVDWESYSMEM	Sysplex Member name
68	(44)	SIGNED	4	ODMVDWETCB	Tcb of holder,waiter,XSYS
72	(48)	CHARACTER	20	ODMVDWEREASON	Reason for holding,waiting
92	(5C)	SIGNED	4	ODMVDWEAGE	Age holding,waiting,XSYS
92	(5C)	BITSTRING	1	ODMVDWEHRS	Hours
93	(5D)	BITSTRING	1	ODMVDWEMINS	Minutes
94	(5E)	BITSTRING	1	ODMVDWESECS	Seconds
95	(5F)	BITSTRING	1		Reserved
96	(60)	CHARACTER	44	ODMVDWEFILESYS	File System of holder,waiter
Unique declares for XSYS Messages.					
140	(8C)	CHARACTER	284	ODMVDWEUNION	
140	(8C)	CHARACTER	284	ODMVDWEXSYS	
140	(8C)	CHARACTER	12	ODMVDWEMSGTYPE	Message Type
152	(98)	SIGNED	2	ODMVDWEFCODE	Function Code
154	(9A)	CHARACTER	1	ODMVDWEREQUEST	* = ASYNC, blank = SYNC
155	(9B)	CHARACTER	1		Reserved (padding)

Table 387. Structure ODMVDWELEMENT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
156	(9C)	SIGNED	4	ODMVDWEONTCB	On TCB for RECV Xsys MSG
160	(A0)	CHARACTER	4	ODMVDWEREQID	Request Id
160	(A0)	BITSTRING	1	ODMVDWESYSNUM	System Number
161	(A1)	SIGNED	3	ODMVDWESEQNO	Sequence Number
164	(A4)	SIGNED	4	ODMVDWEMEMCNT	Number of OdmvDWeMemName
168	(A8)	CHARACTER	8	ODMVDWEMEMNAME	broadcast members @E2C
File latch activity table					
140	(8C)	CHARACTER	75	ODMVDWEFILELAT	
140	(8C)	CHARACTER	64	ODMVDWEFILELATFILENAME	Files name 64 characters
204	(CC)	SIGNED	4	ODMVDWEFILELATDEVNO	Files device number
208	(D0)	SIGNED	4	ODMVDWEFILELATINO	Files Inode number
212	(D4)	CHARACTER	2	ODMVDWEFILELATLSET	Files latch set ID
214	(D6)	BITSTRING	1	ODMVDWEFILELATFILETYPE	Files type
File system latch activity table					
424	(1A8)	SIGNED	4	ODMVDWEVLWCNT	Number of Vfs latch waiters
Only valid on last holder for each latch					
HOLDING:					
428	(1AC)	SIGNED	4	ODMVDWEHELDLATNUM	
FILE:					
432	(1B0)	CHARACTER	16	ODMVDWEFILENAME	Files name
448	(1C0)	SIGNED	4	ODMVDWEDEVNO	Files device number
452	(1C4)	SIGNED	4	ODMVDWEINO	Files Inode number
OTHER WAITING THREADS:					
456	(1C8)	SIGNED	4	ODMVDWEPID	Pid of waiter
460	(1CC)	BITSTRING	1	ODMVDWEFLAGS2	Flags2
Bit definitions:					
	1...			ODMVDWEHSM	"X'80'" 1 = Doing an HSM recall
461	(1CD)	CHARACTER	3		Reserved
OdmvDWeVLHLatNum contains the latch number for a file system latch holder causing contention. This is the value that shows up under the FILE SYSTEM LATCH ACTIVITY table. It is only set for the holder. This field is used for the file system and file latch activty tables.					
464	(1D0)	SIGNED	4	ODMVDWEVLHLATNUM	VFS/Vnod holder latch num
468	(1D4)	CHARACTER	20	ODMVTIMESTAMP	Timestamp of start activity
468	(1D4)	CHARACTER	10	ODMVDATE	Date
478	(1DE)	CHARACTER	1	ODMVBLANK	blank space
479	(1DF)	CHARACTER	8	ODMVTIME	Time
487	(1E7)	CHARACTER	1		blank space
488	(1E8)	SIGNED	4	ODMVDWEXCFSEQUENCE	XCF sequence
488	(1E8)	X'1EC'	0	ODMVDWELEM_#LEN	"492"
488	(1E8)	X'1EC'	0	ODMVDWELEMENT_LEN	"*-ODMVDWELEMENT"

BPXZODMV mapping

Table 388. Structure ODMVSOCKET

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVSOCKET	
0	(0)	CHARACTER	8	ODMVSOCKETJOBNAME	Job name of socket owner
8	(8)	SIGNED	4	ODMVINODENUM	Socket inode number
12	(C)	SIGNED	4	ODMVPINODENUM	Socket peer inode number
16	(10)	SIGNED	4	ODMVSTATE	Current socket state
20	(14)	SIGNED	4	ODMVBYTESREAD	Bytes read on socket
24	(18)	SIGNED	4	ODMVBYTESWRITTEN	Bytes written on socket
28	(1C)	CHARACTER	1	ODMVSOCKETNAMEFLG	Non 0 indicates socket has a name
29	(1D)	CHARACTER	57	ODMVSOCKETNAME	Sockets name
86	(56)	CHARACTER	1	ODMVPEERNAMEFLG	Non 0 indicates peer has a name
87	(57)	CHARACTER	57	ODMVPEERNAME	Sockets peer name
Decalre constant for OdmvSockets Constants for OdmvState @DVA					
87	(57)	X'1'	0	ODMV#STRM	"1" Unconnected stream socket
87	(57)	X'2'	0	ODMV#DGRAM	"2" Datagram socket
87	(57)	X'3'	0	ODMV#LISTEN	"3" Stream socket that accepts conections
87	(57)	X'4'	0	ODMV#ACP	"4" Accepted stream socket
87	(57)	X'5'	0	ODMV#CONN	"5" Connected stream socket
87	(57)	X'90'	0	ODMVSOCKET_LEN	"*-ODMVSOCKET"

Table 389. Structure ODMVDYNSERV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVDYNSERV	Dynamic Service Header
0	(0)	SIGNED	4	ODMVDYNSERVVERNUM	Version Number Of OdmvDynServ Structure
4	(4)	SIGNED	4	ODMVDYNSERVACTCNT	Number of dynamic service activations
8	(8)	SIGNED	4	ODMVDYNSERVCSASTG	Amount of CSA storage used for all activations
12	(C)	SIGNED	4	ODMVDYNSERVPVTSTG	Amount of OMVS PVT storage used for all activations
16	(10)	ADDRESS	4	ODMVDYNSERVACTPTR	Ptr to the first DynAct structure.
16	(10)	X'14'	0	ODMVDYNSERV_LEN	"*-ODMVDYNSERV"

Table 390. Structure ODMVDYNACT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVDYNACT	
0	(0)	CHARACTER	44	ODMVDYNACTLINKLIB	LinkLib library name
44	(2C)	CHARACTER	6	ODMVDYNACTLINKLIBVOL	LinkLib volume
50	(32)	CHARACTER	44	ODMVDYNACTLPALIB	Lpalib library name
94	(5E)	CHARACTER	6	ODMVDYNACTLPAVOL	Lpalib volume
100	(64)	SIGNED	4	ODMVDYNACTITEMCNT	Number of Service Items in the activation instance
104	(68)	ADDRESS	4	ODMVDYNACTNEXTPTR	Address of Next OdmvDynAct
108	(6C)	ADDRESS	4	ODMVDYNACTITEMPTR	Address of 1st OdmvDynActItem

Table 390. Structure ODMVDYNACT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
108	(6C)	X'70'	0	ODMVDYNACT_LEN	"*-ODMVDYNACT"

Table 391. Structure ODMVDYNACTITEM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVDYNACTITEM	Service items in dynamic activation
0	(0)	CHARACTER	7	ODMVDYNACTITEMNAME	Service Item Name
7	(7)	CHARACTER	1		
7	(7)	X'8'	0	ODMVDYNACTITEM_LEN	"*-ODMVDYNACTITEM"

Table 392. Structure ODMVMFHEADER

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVMFHEADER	Mount Failure Header
0	(0)	SIGNED	4	ODMVMFHCOUNT	Count of Mount Failures
4	(4)	ADDRESS	4	ODMVMFHENTRYPTR	Ptr to 1st OdmvMFEntry
8	(8)	CHARACTER	18	ODMVMFHPTIME	Purge date & time in EBCDIC
8	(8)	CHARACTER	10	ODMVMFHDATE	yyyy/mm/dd
8	(8)	CHARACTER	4	ODMVMFHYEAR	
12	(C)	CHARACTER	1	ODMVMFHSLASH1	
13	(D)	CHARACTER	2	ODMVMFHMONTH	
15	(F)	CHARACTER	1	ODMVMFHSLASH2	
16	(10)	CHARACTER	2	ODMVMFHDAY	
18	(12)	CHARACTER	8	ODMVMFHTIME	hh:mm:ss
18	(12)	CHARACTER	2	ODMVMFHHH	
20	(14)	CHARACTER	1	ODMVMFHDOT1	
21	(15)	CHARACTER	2	ODMVMFHMM	
23	(17)	CHARACTER	1	ODMVMFHDOT2	
24	(18)	CHARACTER	2	ODMVMFHSS	
26	(1A)	CHARACTER	2		Alignment
28	(1C)	CHARACTER	1	ODMVMFHEND(0)	
28	(1C)	X'1C'	0	ODMVMFHDR#LEN	"28"
28	(1C)	X'1C'	0	ODMVMFHEADER_LEN	"*-ODMVMFHEADER"

Table 393. Structure ODMVMFENTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODMVMFENTRY	Mount Failure Entry
0	(0)	ADDRESS	4	ODMVMFNEXT	+00 Next OdmvMF on the chain
Any changes to OdmvMFDspInfo should also be made to MfdbDspInfo.					
4	(4)	CHARACTER	236	ODMVMFDSPINFO	Displayable Information:
4	(4)	SIGNED	4	ODMVMFMNTCODE	+04 Mount Entry Code
8	(8)	SIGNED	4	ODMVMFRETCODE	+08 Failing Return Code
12	(C)	SIGNED	4	ODMVMFRSNCODE	+0C Failing Reason Code
16	(10)	SIGNED	4	ODMVMFPATHNAMELEN	+10 Path Name Length
20	(14)	SIGNED	4	ODMVMFPARMDATALEN	+14 Parameter Length
24	(18)	CHARACTER	18	ODMVMFTODEBC	+18 OdmvMFTOD in EBCDIC

Table 393. Structure ODMVMFENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	CHARACTER	10	ODMVMFDATE	+18 yyyy/mm/dd
24	(18)	CHARACTER	4	ODMVMFYEAR	
28	(1C)	CHARACTER	1	ODMVMFSLASH1	
29	(1D)	CHARACTER	2	ODMVMFMONTH	
31	(1F)	CHARACTER	1	ODMVMFSLASH2	
32	(20)	CHARACTER	2	ODMVMFDAY	
34	(22)	CHARACTER	8	ODMVMFTIME	+22 hh:mm:ss
34	(22)	CHARACTER	2	ODMVMFHH	
36	(24)	CHARACTER	1	ODMVMFDOT1	
37	(25)	CHARACTER	2	ODMVMFMM	
39	(27)	CHARACTER	1	ODMVMFDOT2	
40	(28)	CHARACTER	2	ODMVMFSS	
42	(2A)	BITSTRING	2	ODMVMFFLAGS	+2A Flags
Bit definitions:					
	1...			ODMVMFMOVEFAILURE	"X'80'" Move operation failed
44	(2C)	CHARACTER	8	ODMVMFFSTYPE	+2C File System Type
52	(34)	CHARACTER	8	ODMVMFDDNAME	+34 DD Name (or zeros)
60	(3C)	CHARACTER	8	ODMVMFSYSNAME	+3C System Name (or zeros)
68	(44)	CHARACTER	8	ODMVMFPARMMEM	+44 Parmlib member (or zeros)
76	(4C)	CHARACTER	44	ODMVMFFSNAME	+4C File System Name
120	(78)	CHARACTER	60	ODMVMFPATHNAME	+78 Path Name Buffer
180	(B4)	CHARACTER	60	ODMVMFPARMDATA	+B4 Parameter Buffer
240	(F0)	CHARACTER	1	ODMVMFEND(0)	+F0
240	(F0)	X'F0'	0	ODMVMFENTRY#LEN	"240"
VersionNumber values are defined here					
240	(F0)	X'10'	0	ODMVVER#ONE	"16" Version 1.0 Constant
240	(F0)	X'11'	0	ODMVVER#ONEONE	"17" Version 1.1 Constant
240	(F0)	X'12'	0	ODMVVER#ONETWO	"18" Version 1.2 Constant
Return Code values are defined here					
240	(F0)	X'0'	0	ODMVSUCCESS	"0" Execution successful
240	(F0)	X'4'	0	ODMVNOTFOUND	"4" ASID or UID not found
240	(F0)	X'8'	0	ODMVFSGMNERROR	"8" Error calling FSGMN
240	(F0)	X'C'	0	ODMVBUFFER	"12" Buffer to small
240	(F0)	X'10'	0	ODMVFLAGS	"16" Input flags invalid
240	(F0)	X'14'	0	ODMVAUTH	"20" Wrong authority
240	(F0)	X'18'	0	ODMVINVPTR	"24" Ptr. to ODMVOUT zero
240	(F0)	X'1C'	0	ODMVOMVSINACT	"28" OMVS Inactive
240	(F0)	X'1D'	0	ODMV#MFDBLATCH	"29" Mfdb latch failure
240	(F0)	X'20'	0	ODMV#ISGLSLSPERR	"32" ISGLSLSP failed
OdmvPrcLimits/OdmvSystemLimits constant defined here					
240	(F0)	BITSTRING	0	ODMV#UNLIMITED	"X'FFFFFFFF'"
OdmvStatus/OdmvThdStatus constants are defined here Constants for OdmvStatus3					
240	(F0)	X'E9'	0	ODMVZOMBIE	"C'Z'" Process terminated and parent has not complete wait
240	(F0)	X'D3'	0	ODMVZOMBIE2	"C'L' Process terminated and still session or " process group leader

Table 393. Structure ODMVMFENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
240	(F0)	X'D8'	0	ODMVQUIESCET	"C'Q'" Quiese termination wait
	Constants for OdmvStatus3 and OdmvThdStatus2				
240	(F0)	X'C1'	0	ODMVMSGRCV	"C'A'" IPC msgrcv wait
240	(F0)	X'C2'	0	ODMVMSGSND	"C'B'" IPC msgsnd wait
240	(F0)	X'C3'	0	ODMVWAITC	"C'C'" Comm KernelWait
	When a PID value is present in the message, D means Semop When there is no PID yet, D means waiting to be dubbed				
240	(F0)	X'C4'	0	ODMVSEMOP	"C'D'" IPC semop wait
240	(F0)	X'C4'	0	ODMVDUBWAIT	"C'D'" Waiting for DUB
240	(F0)	X'C6'	0	ODMVWAITF	"C'F'" File System Kernel Wait
240	(F0)	X'C7'	0	ODMVMVSPAUSE	"C'G'" MVSPause
240	(F0)	X'D9'	0	ODMVRUN	"C'R'" Not kernel wait
240	(F0)	X'E2'	0	ODMVSLEEP	"C'S'" sleep() issued
240	(F0)	X'E3'	0	ODMVBRL	"C'T'" Byte Range Lock WaiT
240	(F0)	X'E7'	0	ODMVFORK	"C'X'" fork new process
240	(F0)	X'E6'	0	ODMVCHILD	"C'W'" Waiting for child
	Constants for OdmvStatus3 and OdmvThdStatus5				
240	(F0)	X'C5'	0	ODMVFREEZE	"C'E'" Quiesce Freeze
	Constants for OdmvThdStatus1				
240	(F0)	X'D1'	0	ODMVPTHDCREATED	"C'J'" Pthread created
	Constants for OdmvThdStatus2				
240	(F0)	X'E8'	0	ODMVMVSWAIT	"C'Y'" MVS wait
	Constants for OdmvThdStatus3				
240	(F0)	X'D5'	0	ODMVMEDIUMWGHT	"C'N'" Medium weight thread
240	(F0)	X'D6'	0	ODMVASYNCH	"C'O'" Asynchronous thread
240	(F0)	X'E4'	0	ODMVIPT	"C'U'" Initial process thread
	Constants for OdmvThdStatus4				
240	(F0)	X'E5'	0	ODMVDETACHED	"C'V'" Thread is detached
	Constants for OdmvThdStatus5				
240	(F0)	X'D7'	0	ODMVPTRACE	"C'P'" Ptrace kernel wait
	Constants for OdmvThdStatus6				
240	(F0)	X'C2'	0	ODMVBLOCKED	"C'B'" registered blocker
240	(F0)	X'D7'	0	ODMVPERM	"C'P'" registered perm process
240	(F0)	X'D9'	0	ODMVCRESPAWN	"C'R'" respawnable process
	Constants for OdmvThdStatus7				
240	(F0)	X'E3'	0	ODMVCUTRACED	"C'T'" User Traced process
	Following constant are not returned by BPXEKDA. See remarks how to get those information				
240	(F0)	X'F1'	0	ODMVONETASK	"C'1'" Only one dubbed task
	OdmvMulThread=On				
240	(F0)	X'D4'	0	ODMVMULTTHDS	"C'M'" Multiple threads which were NOT pthread_create()'ed and has not issued a wait

Table 393. Structure ODMVMFENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	OdmvPthread=On				
240	(F0)	X'C8'	0	ODMVPTHREADS	"C'H'" Multiple threads exist. Some created by pthread_create
	OdmvStopped=On				
240	(F0)	X'E3'	0	ODMVSTOPST	"C'T'" stopped
	OdmvSwap=On				
240	(F0)	X'C9'	0	ODMVSWAPPED	"C'I'" Swapped out
	Reserved Constants				
240	(F0)	X'D2'	0	ODMVWAITO	"C'K'" Other Kernel Wait
240	(F0)	X'F0'	0	ODMVMFENTRY_LEN	"*-ODMVMFENTRY"

Table 394. Cross Reference for BPXZODMV

Name	Offset	Hex Tag
ODMV	0	
ODMV_LEN	60	60
ODMV#ACP	57	4
ODMV#CONN	57	5
ODMV#DGRAM	57	2
ODMV#ISGLSLSPERR	F0	20
ODMV#LISTEN	57	3
ODMV#MFDBLATCH	F0	1D
ODMV#RECYCLEMOUNTING	18C	2
ODMV#RECYCLEMOUNTSPEND	18C	3
ODMV#RECYCLING	18C	1
ODMV#STRM	57	1
ODMV#UNLIMITED	F0	FFFFFF
ODMVACTIVEFILES	60	
ODMVACTSERV	D	1
ODMVADUBWS	E	2
ODMVAGGNAME	1E4	
ODMVALLMF	D	4
ODMVALTROOT	459	40
ODMVALTROOTFS	28	
ODMVASID	18	
ODMVASIDALLS	C	40
ODMVASIDPARM	14	
ODMVASIDS	C	20
ODMVASYNCH	F0	D6
ODMVAUTH	F0	14
ODMVAUTHPGMLIST	4E5	
ODMVAUTHPGMLISTLEN	4E4	
ODMVAUTOCVT	458	2
ODMVAUTOCVTALL	459	8
ODMVBLANK	1DE	
ODMVBLOCKED	F0	C2

Table 394. Cross Reference for BPXZODMV (continued)

Name	Offset	Hex Tag
ODMVBLOCKREG	35	8
ODMVBRL	F0	E3
ODMVBRLMSRV	488	
ODMVBRLS	8	40
ODMVBUFFER	F0	C
ODMVBYTESREAD	14	
ODMVBYTESWRITTEN	18	
ODMVCAPS	4DC	80
ODMVCBGEN06	4C0	
ODMVCHILD	F0	E6
ODMVCHILDMAX	3C	
ODMVCINET	0	
ODMVCINET_LEN	40	44
ODMVCINETALL	D	80
ODMVCINETCOUNT	64E	
ODMVCINETCOUNTS	478	
ODMVCINETETPNAME	0	
ODMVCINETFLAGS	3C	
ODMVCINETHIFACTIVE	3F	1
ODMVCINETHOME@	8	
ODMVCINETHOMECNT	478	
ODMVCINETHOMECNT6	0	
ODMVCINETHOMEIF@	40	
ODMVCINETHOST@	14	
ODMVCINETHOSTCNT	47C	
ODMVCINETHOSTCNT6	4	
ODMVCINETMASK	2C	
ODMVCINETMETRIC	38	
ODMVCINETMSGNUM	4D8	
ODMVCINETNETW@	20	
ODMVCINETNETWCNT	480	
ODMVCINETNETWCNT6	8	
ODMVCINETPORT	64C	
ODMVCINETRTYPE	10	
ODMVCINETTP	D	40
ODMVCINETTPNAME	1E	
ODMVCINET6	0	
ODMVCINET6_#LEN	40	44
ODMVCINET6_LEN	40	44
ODMVCINET6BITS	3B	
ODMVCINET6ETPNAME	0	
ODMVCINET6FLAGS	38	
ODMVCINET6HOME	3B	4
ODMVCINET6HOST	3B	2
ODMVCINET6IPV6@	8	
ODMVCINET6METRIC	34	
ODMVCINET6NET	3B	1
ODMVCINET6PLEN	28	
ODMVCINET6PTR	C	

Table 394. Cross Reference for BPXZODMV (continued)

Name	Offset	Hex Tag
ODMVCINET6RTYPE	3C	
ODMVCMD	6C	
ODMVCRESPAWN	F0	D9
ODMVCSTATE	34	
ODMVCT	2C	
ODMVCTZIIP	AC	
ODMVCUTRACED	F0	E3
ODMVDATE	1D4	
ODMVDETACHED	F0	E5
ODMVDEVICE	0	
ODMVDUBWAIT	F0	C4
ODMVDWEAGE	5C	
ODMVDWEASID	32	
ODMVDWEDEVNO	1C0	
ODMVDWEFCODE	98	
ODMVDWEFILELAT	8C	
ODMVDWEFILELATDEVNO	CC	
ODMVDWEFILELATFILENAME	8C	
ODMVDWEFILELATFILETYPE	D6	
ODMVDWEFILELATINO	D0	
ODMVDWEFILELATLSET	D4	
ODMVDWEFILENAME	1B0	
ODMVDWEFILESYS	60	
ODMVDWEFLAGFS	31	80
ODMVDWEFLAGS	31	
ODMVDWEFLAGS2	1CC	
ODMVDWEFLAG99	31	40
ODMVDWEHELDLATNUM	1AC	
ODMVDWEHRS	5C	
ODMVDWEHSM	1CC	80
ODMVDWEINO	1C4	
ODMVDWEISDOING	31	10
ODMVDWEISVFSHOLDER	31	2
ODMVDWELATACC	31	8
ODMVDWELATCH	31	20
ODMVDWELATNUM	24	
ODMVDWELATWAITNUM	24	
ODMVDWELEM_#LEN	1E8	1EC
ODMVDWELEMENT	0	
ODMVDWELEMENT_LEN	1E8	1EC
ODMVDWEMEMCNT	A4	
ODMVDWEMEMNAME	A8	
ODMVDWEMINS	5D	
ODMVDWEMSGTYPE	8C	
ODMVDWEONTCB	9C	
ODMVDWEOP	8	
ODMVDWEPFSNAME	0	
ODMVDWEPID	1C8	
ODMVDWEREASON	48	

Table 394. Cross Reference for BPXZODMV (continued)

Name	Offset	Hex Tag
ODMVDWEREQID	A0	
ODMVDWEREQUEST	9A	
ODMVDWESECS	5E	
ODMVDWESEQNO	A1	
ODMVDWESTATE	14	
ODMVDWESYSMEM	3C	
ODMVDWESYSNAME	28	
ODMVDWESYSNAME1	30	
ODMVDWESYSNAME8	28	
ODMVDWESYSNUM	A0	
ODMVDWETCB	44	
ODMVDWEUNION	8C	
ODMVDWEUSERID	34	
ODMVDWEVFSACC	31	4
ODMVDWEVLHLATNUM	1D0	
ODMVDWEVLWCNT	1A8	
ODMVDWEVNODFILEOP	31	1
ODMVDWEXCFSEQUENCE	1E8	
ODMVDWEXSYS	8C	
ODMVDWHDRLEN	21	
ODMVDWHEAD_#LEN	38	3C
ODMVDWHEADER	0	
ODMVDWHEADER_LEN	38	3C
ODMVDWHELEN	22	
ODMVDWHFLAGS	20	
ODMVDWHFLAGS1	20	
ODMVDWHFLAGS2	21	
ODMVDWHFLCCNT	34	
ODMVDWHFLHPTR	38	
ODMVDWHMLHCNT	0	
ODMVDWHMLHPTR	4	
ODMVDWHMLWCNT	8	
ODMVDWHMLWPTR	C	
ODMVDWHOWTCNT	2C	
ODMVDWHOWTPTR	30	
ODMVDWHSYSPLEX	20	80
ODMVDWHVERSION	21	
ODMVDWHVERSION#ONE	38	1
ODMVDWHVERSION#THREE	38	3
ODMVDWHVERSION#TWO	38	2
ODMVDWHVERSION#ZERO	38	0
ODMVDWHVLCCNT	24	
ODMVDWHVLHPTR	28	
ODMVDWHXRECVCNT	18	
ODMVDWHXRECVPTR	1C	
ODMVDWHXSENTCNT	10	
ODMVDWHXSENTPTR	14	
ODMVDYNACT	0	
ODMVDYNACT_LEN	6C	70

Table 394. Cross Reference for BPXZODMV (continued)

Name	Offset	Hex Tag
ODMVDYNACTITEM	0	
ODMVDYNACTITEM_LEN	7	8
ODMVDYNACTITEMCNT	64	
ODMVDYNACTITEMNAME	0	
ODMVDYNACTITEMPTR	6C	
ODMVDYNACTLINKLIB	0	
ODMVDYNACTLINKLIBVOL	2C	
ODMVDYNACTLPALIB	32	
ODMVDYNACTLPAVOL	5E	
ODMVDYNACTNEXTPTR	68	
ODMVDYNSERV	0	
ODMVDYNSERV_LEN	10	14
ODMVDYNSERVACTCNT	4	
ODMVDYNSERVACTPTR	10	
ODMVDYNSERVCSASTG	8	
ODMVDYNSERVPTR	4A0	
ODMVDYNSERVPVTSTG	C	
ODMVDYNSERVVERNUM	0	
ODMVEND	670	
ODMVEUID	98	
ODMVEXCEPTION	8	1
ODMVEXTOPTDATAPTR	494	
ODMVEXTOPTIONSDATA	0	
ODMVEXTOPTIONSDATA_LEN	64	70
ODMVFILE	0	
ODMVFILE_LEN	2A4	2A8
ODMVFILES	C	80
ODMVFLAGBYTE01	458	
ODMVFLAGBYTE02	459	
ODMVFLAGS	F0	10
ODMVFLAGWORD01	458	
ODMVFLAGWORD02	484	
ODMVFLAGWORD03	4DC	
ODMVFORK	F0	E7
ODMVFORKCOPY	458	80
ODMVFREEZE	F0	C5
ODMVFSCLIENT	D8	
ODMVFSDOT1	22C	
ODMVFSDOT2	22F	
ODMVFSFILETAG	DC	
ODMVFSGMNERROR	F0	8
ODMVFSHH	22A	
ODMVFSLATNUM	218	
ODMVFSMM	22D	
ODMVFSMTDATA	220	
ODMVFSMTDATE	220	
ODMVFSMTDAY	228	
ODMVFSMTMONTH	225	
ODMVFSMTTIME	22A	

Table 394. Cross Reference for BPXZODMV (continued)

Name	Offset	Hex Tag
ODMVFSMTYEAR	220	
ODMVFSMTYY	222	
ODMVFSNAME	20	
ODMVFSNOAUTOMOVE	CC	
ODMVFSOWNER	C4	
ODMVFSPFSEXCPSTATUS	26A	
ODMVFSPFSNORMALSTATUS	232	
ODMVFSQLATNUM	21C	
ODMVFSSLASH1	224	
ODMVFSSLASH2	227	
ODMVFSSS	230	
ODMVFSUID	9	4
ODMVFSUSRMNTUID	2A4	
ODMVGENERALFLAGS	3C	
ODMVGEN01	C	
ODMVGEN02	C	
ODMVGEN04	2F8	
ODMVGEN05	35	40
ODMVGEN07	2D	
ODMVID	0	
ODMVINBYTEM1	C	
ODMVINBYTEM2	D	
ODMVINBYTEM3	E	
ODMVINBYTEM4	F	
ODMVINBYTE1	8	
ODMVINBYTE2	9	
ODMVINFLAGS	8	
ODMVINFLAGSM	C	
ODMVINODENUM	8	
ODMVINPUTEND	60	
ODMVINPUTPARMS	8	
ODMVINVPTR	F0	18
ODMVIPT	F0	E4
ODMVIPV6	0	
ODMVIPV6_LEN	C	10
ODMVIPV6PTR	498	
ODMVJOBNAME	0	
ODMVKERNELASID	E	
ODMVKSTACKSABOVE	459	4
ODMVLATCHWAITPID	38	
ODMVLIMITS	D	20
ODMVLIMITSPTR	490	
ODMVLIMMSGPROC	458	4
ODMVLIMMSGSYS	458	8
ODMVLOSTMSG	459	10
ODMVMAXASSIZE	5C	
ODMVMAXASSIZEBIN	14	
ODMVMAXASSIZEBINM	14	
ODMVMAXASSIZEM	17	

Table 394. Cross Reference for BPXZODMV (continued)

Name	Offset	Hex Tag
ODMVMAXCORESIZE	68	
ODMVMAXCORESIZEB	10	
ODMVMAXCORESIZEBIN	459	80
ODMVMAXCORESIZEBINM	10	
ODMVMAXCORESIZEM	13	
ODMVMAXCPUTIME	48	
ODMVMAXFILEPROC	40	
ODMVMAXFILES	64	
ODMVMAXFILESIZE	44	
ODMVMAXFILESIZEBIN	C	
ODMVMAXFILESIZEBINM	C	
ODMVMAXFILESIZEM	F	
ODMVMAXFILESIZEMHLBINM	90	
ODMVMAXFILESIZEMSLBINM	94	
ODMVMAXIOBUFUSER	650	
ODMVMAXMMAPAREA	58	
ODMVMAXMMAPAREABIN	18	
ODMVMAXMMAPAREABINM	18	
ODMVMAXMMAPAREAM	1B	
ODMVMAXMSGNIDS	70	
ODMVMAXMSGQBYTES	74	
ODMVMAXMSGQMNUM	78	
ODMVMAXPIPEUSER	60	
ODMVMAXPROCSYS	38	
ODMVMAXPTYS	54	
ODMVMAXQUEUEDSIGS	444	
ODMVMAXRTYS	50	
ODMVMAXSEMNIDS	8C	
ODMVMAXSEMNOPS	94	
ODMVMAXSEMNSEMS	90	
ODMVMAXSHMMPAGES	84	
ODMVMAXSHMMPAGESBIN	24	
ODMVMAXSHMMPAGESBM	24	
ODMVMAXSHMMPAGESM	27	
ODMVMAXSHMNIDS	7C	
ODMVMAXSHMNSEGS	88	
ODMVMAXSHMSPAGES	80	
ODMVMAXSHMSPAGESBIN	20	
ODMVMAXSHMSPAGESBM	20	
ODMVMAXSHMSPAGESM	23	
ODMVMAXSHRPAGES	6C	
ODMVMAXSHRPAGESBIN	1C	
ODMVMAXSHRPAGESBINM	1C	
ODMVMAXSHRPAGESM	1F	
ODMVMAXTHREADS	60	
ODMVMAXTHREADTASKS	64	
ODMVMAXUSERS	4C	
ODMVMEDIUMWGHT	F0	D5
ODMVMFDATE	18	

Table 394. Cross Reference for BPXZODMV (continued)

Name	Offset	Hex Tag
ODMVMFDAY	20	
ODMVMFDDNAME	34	
ODMVMFDOT1	24	
ODMVMFDOT2	27	
ODMVMFDSPINFO	4	
ODMVMFEND	F0	
ODMVMFENTRY	0	
ODMVMFENTRY_LEN	F0	F0
ODMVMFENTRY#LEN	F0	F0
ODMVMFFLAGS	2A	
ODMVMFFSNAME	4C	
ODMVMFFSTYPE	2C	
ODMVMFHCOUNT	0	
ODMVMFHDATE	8	
ODMVMFHDAY	10	
ODMVMFHDOT1	14	
ODMVMFHDOT2	17	
ODMVMFHDR#LEN	1C	1C
ODMVMFHEADER	0	
ODMVMFHEADER_LEN	1C	1C
ODMVMFHEND	1C	
ODMVMFHENTRYPTR	4	
ODMVMFHH	22	
ODMVMFHHH	12	
ODMVMFHMM	15	
ODMVMFHMONTH	D	
ODMVMFHPTIME	8	
ODMVMFHSLASH1	C	
ODMVMFHSLASH2	F	
ODMVMFHSS	18	
ODMVMFHTIME	12	
ODMVMFHYEAR	8	
ODMVMFMM	25	
ODMVMFMNTCODE	4	
ODMVMFMONTH	1D	
ODMVMFMOVEFAILURE	2A	80
ODMVMFNEXT	0	
ODMVMFPARMDATA	B4	
ODMVMFPARMDATALEN	14	
ODMVMFPARMMEM	44	
ODMVMFPATHNAME	78	
ODMVMFPATHNAMELEN	10	
ODMVMFRETCODE	8	
ODMVMFRSNCODE	C	
ODMVMFSLASH1	1C	
ODMVMFSLASH2	1F	
ODMVMFSS	28	
ODMVMFSYSNAME	3C	
ODMVMFTIME	22	

Table 394. Cross Reference for BPXZODMV (continued)

Name	Offset	Hex Tag
ODMVMFTODEBC	18	
ODMVMFYEAR	18	
ODMVMOUNTMODE	1C	
ODMVMOUNTPARM	8B	
ODMVMSGRCV	F0	C1
ODMVMSGSND	F0	C2
ODMVMULTHREAD	35	20
ODMVMULTTHDS	F0	D4
ODMVMVSPAUSE	F0	C7
ODMVMVSWAIT	F0	E8
ODMVNAME	8	2
ODMVNONEMPTYMNTPT	5C	
ODMVNOTFOUND	F0	4
ODMVODCA	4D0	
ODMVOMVSINACT	F0	1C
ODMVOMVSPROC	4	
ODMVONETASK	F0	F1
ODMVOPTIONS	C	4
ODMVOPTIONSDATA	38	
ODMVOUT	0	
ODMVOUT_LEN	670	670
ODMVOUTARRAY	0	
ODMVOUTARRAY_LEN	0	4
ODMVOUTARRAYELEMPTR	0	
ODMVOUTARRAYPTR	460	
ODMVOUTARRAYSIZE	45C	
ODMVOUTPTR	4	
ODMVOUTPUTADDR	4C4	
ODMVOUTPUTALET	4C0	
ODMVOUTPUTALETADDR	4C0	
ODMVOWNER	8	8
ODMVPARMMEMLIST	10	
ODMVPARTIAL	484	80
ODMVPATH	4C	
ODMVPEERNAME	57	
ODMVPEERNAMEFLG	56	
ODMVPERM	F0	D7
ODMVPERMREG	35	4
ODMVPFS	0	
ODMVPFS_LEN	18C	1C8
ODMVPFS#HFS_0TO3	C	C6E240
ODMVPFS#HFS_4TO7	C	404040
ODMVPFSASNAME	10C	
ODMVPFSBIT	C	1
ODMVPFSBLANK	2C	
ODMVPFSCHARS	0	
ODMVPFSCOUNTS	46C	
ODMVPFSCURRENTVALUES	E4	
ODMVPFSDATE	F8	

Table 394. Cross Reference for BPXZODMV (continued)

Name	Offset	Hex Tag
ODMVPFSDESCRIPTION	8	
ODMVPFSDOT1	F2	
ODMVPFSDOT2	F5	
ODMVPFSENTRY	1C	
ODMVPFSFIXED	E4	
ODMVPFSFLAGS	29	
ODMVPFSHH	F0	
ODMVPFSHWMSOCK	DC	
ODMVPFSMAXSOCK	D4	
ODMVPFSMM	F3	
ODMVPFSNAME	0	
ODMVPFSNAMECOUNT	470	
ODMVPFSNUMS	D4	
ODMVPFSOPNSOCK	D8	
ODMVPFSPARMCOUNT	474	
ODMVPFSPARMLEN	E0	
ODMVPFSPARMS	2C	
ODMVPFSRECYSTATUS	EC	
ODMVPFSRECYTIME	F0	
ODMVPFSSOCKET	8	
ODMVPFSSS	F6	
ODMVPFSSTARTTIME	F8	
ODMVPFSSTATUS	24	
ODMVPFSSTATUSINFO	114	
ODMVPFSSTLINE1	114	
ODMVPFSSTLINE2	150	
ODMVPFSSTLINE3	18C	
ODMVPFSTIME	103	
ODMVPFSTYPECOUNT	46C	
ODMVPFSVFS	10	
ODMVPFSVIRTUAL	E8	
ODMVPID	10	
ODMVPIDPARM	10	
ODMVPIDS	C	2
ODMVPINODENUM	C	
ODMVPIPES	E	10
ODMVPIPESALL	E	8
ODMVPIPESRESET	9	2
ODMVPIPESUMELEMNT	0	
ODMVPIPESUMELEMNT_LEN	8	10
ODMVPIPESUMHDR	0	
ODMVPIPESUMHDR_LEN	C	10
ODMVPIPEUID	E	4
ODMVPIPEUID#MAXENT	8	A
ODMVPIPEUIDELEMNT	0	
ODMVPIPEUIDELEMNT_LEN	8	10
ODMVPIPEUIDHDR	0	
ODMVPIPEUIDHDR_LEN	10	10
ODMVPPID	14	

Table 394. Cross Reference for BPXZODMV (continued)

Name	Offset	Hex Tag
ODMVPRCL	0	
ODMVPRCL_LEN	98	AC
ODMVPRCLFBYTE1	0	
ODMVPRCLFBYTE2	1	
ODMVPRCLFBYTE3	2	
ODMVPRCLFBYTE4	3	
ODMVPRCLFCHANGED	0	
ODMVPRCLFCORESIZHBIN	2	80
ODMVPRCLFCORESIZSBIN	1	80
ODMVPRCLFIPCSHMNSEGS	0	1
ODMVPRCLFMAXASSIZE	0	80
ODMVPRCLFMAXCORESIZE	1	2
ODMVPRCLFMAXCPU	0	40
ODMVPRCLFMAXFILEPROC	0	20
ODMVPRCLFMAXFILESIZE	1	40
ODMVPRCLFMAXMEMLHBIN	1	4
ODMVPRCLFMAXMEMLIMIT	1	20
ODMVPRCLFMAXMEMLSBIN	1	8
ODMVPRCLFMAXMLIMITSET	1	10
ODMVPRCLFMAXPROCUSER	0	10
ODMVPRCLFMAXQUEUEDSIGS	0	8
ODMVPRCLFMAXTHREADS	0	4
ODMVPRCLFMAXTHREADTASKS	0	2
ODMVPRCLIMITS	484	20
ODMVPRCLIPCSHMNSEGSC	64	
ODMVPRCLIPCSHMNSEGSH	68	
ODMVPRCLIPCSHMNSEGSM	6C	
ODMVPRCLMAXASSIZEC	4	
ODMVPRCLMAXASSIZEH	8	
ODMVPRCLMAXASSIZEM	C	
ODMVPRCLMAXCORESIZEMHL	74	
ODMVPRCLMAXCORESIZEMSL	70	
ODMVPRCLMAXCPUC	10	
ODMVPRCLMAXCPUH	14	
ODMVPRCLMAXCPUM	18	
ODMVPRCLMAXFILEPROCC	1C	
ODMVPRCLMAXFILEPROCH	20	
ODMVPRCLMAXFILEPROCMHL	28	
ODMVPRCLMAXFILEPROCMSL	24	
ODMVPRCLMAXFILESIZEMHL	30	
ODMVPRCLMAXFILESIZEMSL	2C	
ODMVPRCLMAXMEMLIMITCDW	78	
ODMVPRCLMAXMEMLIMITCH	78	
ODMVPRCLMAXMEMLIMITCL	7C	
ODMVPRCLMAXMEMLIMITHDW	80	
ODMVPRCLMAXMEMLIMITHH	80	
ODMVPRCLMAXMEMLIMITHL	84	
ODMVPRCLMAXMEMLIMITMDWH	8C	
ODMVPRCLMAXMEMLIMITMDWHBIN	8C	

Table 394. Cross Reference for BPXZODMV (continued)

Name	Offset	Hex Tag
ODMVPRCLMAXMEMLIMITMDWHM	8F	
ODMVPRCLMAXMEMLIMITMDWS	88	
ODMVPRCLMAXMEMLIMITMDWSBIN	88	
ODMVPRCLMAXMEMLIMITMDWSM	8B	
ODMVPRCLMAXPROCUSERC	34	
ODMVPRCLMAXPROCUSERH	38	
ODMVPRCLMAXPROCUSERM	3C	
ODMVPRCLMAXQUEUEDSIGSC	40	
ODMVPRCLMAXQUEUEDSIGSH	44	
ODMVPRCLMAXQUEUEDSIGSM	48	
ODMVPRCLMAXTHREADSC	4C	
ODMVPRCLMAXTHREADSH	50	
ODMVPRCLMAXTHREADSM	54	
ODMVPRCLMAXTHREADTASKSC	58	
ODMVPRCLMAXTHREADTASKSH	5C	
ODMVPRCLMAXTHREADTASKSM	60	
ODMVPRIORITYGOAL	2F8	
ODMVPRIORITYPG	2A4	
ODMVPROCESS	0	
ODMVPROCESS_LEN	AC	B4
ODMVPROTPGPTR	4E0	
ODMVPSEACTCNT	4	
ODMVPSEHWCNT	6	
ODMVPSEUID	0	
ODMVPSEUSERID	8	
ODMVPSHELECNT	0	
ODMVPSHELETABPTR	4	
ODMVPSHFLAGS	8	
ODMVPSHHWUSAGE	8	80
ODMVPSHMAXPIPEUSER	C	
ODMVPTHDCREATED	F0	D1
ODMVPTHREAD	35	10
ODMVPTHREADS	F0	C8
ODMVPTRACE	F0	D7
ODMVPUACTCNT	4	
ODMVPUELECNT	4	
ODMVPUELETABPTR	8	
ODMVPUFLAGS	C	
ODMVPUMORE	C	80
ODMVPUPID	0	
ODMVPURGEMF	D	2
ODMVPUSYSNAME	8	
ODMVPUTOTCNT	0	
ODMVPVTSTGCURRENT	660	
ODMVPVTSTGHIGHWATER	664	
ODMVPWTE	654	
ODMVQJOBNAME	10	
ODMVQPID	18	
ODMVQSYSTEM	D0	

Table 394. Cross Reference for BPXZODMV (continued)

Name	Offset	Hex Tag
ODMVQUIESCET	F0	D8
ODMVRESERVEDDATA	4C0	
ODMVRESERVEDDATA2	8C	
ODMVRESERVED02	1A3	
ODMVRESERVED03	65A	
ODMVRESERVED04	1A	
ODMVRESERVED05	37	
ODMVRESERVED06	6F	
ODMVRESERVED07	D1	
ODMVRESERVED08	3F	
ODMVRESERVED09	438	
ODMVRESERVED1	58	
ODMVRESERVED10	2F4	
ODMVRESERVED11	4A8	
ODMVRESETSYSLHW	8	20
ODMVRESPAWN	35	2
ODMVRESPROCLEN	0	
ODMVRESPROCNAME	4	
ODMVRETCODE	4D4	
ODMVROSECL	210	
ODMVRUID	94	
ODMVRUN	F0	D9
ODMVSECLABEL	A4	
ODMVSECONDARYDATA	45C	
ODMVSEMOP	F0	C4
ODMVSER	D	10
ODMVSER#CONDVAR_0TO3	8	D6D5C4
ODMVSER#CONDVAR_4TO7	8	C1D940
ODMVSER#MUTEX_0TO3	8	E4E3C5
ODMVSER#MUTEX_4TO7	8	404040
ODMVSERADDR	10	
ODMVSERADDRA	1C	
ODMVSERADDRHI	10	
ODMVSERADDRHIA	1C	
ODMVSERADDRLO	14	
ODMVSERADDRLOA	20	
ODMVSERASID	2	
ODMVSEREXC	0	20
ODMVSERFLAGS	0	
ODMVSERHDR	0	
ODMVSERHDR_LEN	8	C
ODMVSERJOBNAME	4	
ODMVSERLOCID	C	
ODMVSERLOCIDA	18	
ODMVSEROBJ	0	
ODMVSEROBJ_LEN	24	28
ODMVSEROWNER	0	80
ODMVSERPID	C	
ODMVSERPTR	49C	

Table 394. Cross Reference for BPXZODMV (continued)

Name	Offset	Hex Tag
ODMVSERREQ	0	
ODMVSERREQ_LEN	18	1C
ODMVSERREQCNT	8	
ODMVSERREQPTR	24	
ODMVSERRESCNT	4	
ODMVSERRESPTR	8	
ODMVSERSHR	0	10
ODMVSERTCB	10	
ODMVSERTYPE	0	
ODMVSERUSERDATA	14	
ODMVSERUSERDATAHI	14	
ODMVSERUSERDATALO	18	
ODMVSERVER	3C	80
ODMVSERVER#01	8	1
ODMVSERVERINFO	40	
ODMVSERVERNAME	40	
ODMVSERVERNUM	0	
ODMVSERVERTYPE	68	
ODMVSERVLINKLIB	5E5	
ODMVSERVLINKLIBLEN	5E4	
ODMVSERVLINKLIBVOL	63F	
ODMVSERVLINKLIBVOLLEN	63E	
ODMVSERVLPALIB	612	
ODMVSERVLPALIBLEN	611	
ODMVSERVLPALIBVOL	646	
ODMVSERVLPALIBVOLLEN	645	
ODMVSERWAITER	0	40
ODMVSETPEXIST	458	10
ODMVSETPGOALCNT	1A1	
ODMVSETPPGCNT	1A0	
ODMVSHORTMF	D	8
ODMVSHRLIBMAXPAGES	44C	
ODMVSHRLIBRGNSIZE	448	
ODMVSLEEP	F0	E2
ODMVSLNAME	E4	
ODMVSLNUM	E0	
ODMVSOCKET	0	
ODMVSOCKET_LEN	57	90
ODMVSOCKETJOBNAME	0	
ODMVSOCKETNAME	1D	
ODMVSOCKETNAMEFLG	1C	
ODMVSOCKETS	E	80
ODMVSTACKSINUSE	9C	
ODMVSTART	26	
ODMVSTARTYD	1F	
ODMVSTATE	10	
ODMVSTATUS	C	
ODMVSTATUS1	34	
ODMVSTATUS2	35	

Table 394. Cross Reference for BPXZODMV (continued)

Name	Offset	Hex Tag
ODMVSTATUS3	36	
ODMVSTDD	23	
ODMVSTEPLIBLIST	A1	
ODMVSTEPLIBLISTLEN	A0	
ODMVSTHH	26	
ODMVSTMM	28	
ODMVSTOKEN	4C8	
ODMVSTOPPED	35	80
ODMVSTOPST	F0	E3
ODMVSTORAGE	C	8
ODMVSTORAGEINFO	9C	
ODMVSTORAGERESET	E	1
ODMVSTSS	2A	
ODMVSTYY	1F	
ODMVSUCCESS	F0	0
ODMVSUMMARY	8	80
ODMVSUMMARYDATA	4	
ODMVSUPERUSER	98	
ODMVSWAABOVE	458	1
ODMVSWAP	34	80
ODMVSWAPPED	F0	C9
ODMVSYSCALL_COUNTS	458	40
ODMVSYSL	0	
ODMVSYSL_LEN	90	94
ODMVSYSLFBYTE1	0	
ODMVSYSLFBYTE2	1	
ODMVSYSLFBYTE3	2	
ODMVSYSLFBYTE4	3	
ODMVSYSLFCHANGED	0	
ODMVSYSLFIPCMSGNIDS	0	4
ODMVSYSLFIPCMSGQBYTES	1	40
ODMVSYSLFIPCMSGQMNUM	1	20
ODMVSYSLFIPCSEMNIDS	0	2
ODMVSYSLFIPCSHMMPAGES	1	10
ODMVSYSLFIPCSHMNIDS	0	1
ODMVSYSLFIPCSHMSPAGES	1	80
ODMVSYSLFMAXMMAPAREA	0	10
ODMVSYSLFMAXPROCSYS	0	80
ODMVSYSLFMAXPTYS	0	20
ODMVSYSLFMAXSHRPAGES	0	8
ODMVSYSLFMAXUIDS	0	40
ODMVSYSLFMAXUSRMNTSYS	1	2
ODMVSYSLFMAXUSRMNTUSR	1	1
ODMVSYSLFSHRLIBMAXPAGES	1	4
ODMVSYSLFSHRLIBRGNSIZE	1	8
ODMVSYSLIMITS	484	40
ODMVSYSLIPCMSGNIDSC	2C	
ODMVSYSLIPCMSGNIDSH	30	
ODMVSYSLIPCMSGQBYTESH	4C	

Table 394. Cross Reference for BPXZODMV (continued)

Name	Offset	Hex Tag
ODMVSYSLIPCMSGQBYTESM	50	
ODMVSYSLIPCMSGQMNUMH	54	
ODMVSYSLIPCMSGQMNUMM	58	
ODMVSYSLIPCSEMNIDSC	34	
ODMVSYSLIPCSEMNIDSH	38	
ODMVSYSLIPCSHMMPAGESH	5C	
ODMVSYSLIPCSHMMPAGESM	60	
ODMVSYSLIPCSHMMPAGESMBM	74	
ODMVSYSLIPCSHMNIDSC	3C	
ODMVSYSLIPCSHMNIDSH	40	
ODMVSYSLIPCSHMSPAGESC	44	
ODMVSYSLIPCSHMSPAGESH	48	
ODMVSYSLIST	E0	
ODMVSYSLMAXMMAPAREAC	1C	
ODMVSYSLMAXMMAPAREAH	20	
ODMVSYSLMAXPIPESCUR	8C	
ODMVSYSLMAXPIPESHW	90	
ODMVSYSLMAXPIPESLMT	88	
ODMVSYSLMAXPROCSYSC	4	
ODMVSYSLMAXPROCSYSH	8	
ODMVSYSLMAXPTYSC	14	
ODMVSYSLMAXPTYSH	18	
ODMVSYSLMAXSHRPAGESC	24	
ODMVSYSLMAXSHRPAGESH	28	
ODMVSYSLMAXUIDSC	C	
ODMVSYSLMAXUIDSH	10	
ODMVSYSLMAXUSRMNTSYSCUR	78	
ODMVSYSLMAXUSRMNTSYSHW	7C	
ODMVSYSLMAXUSRMNTUSRCUR	80	
ODMVSYSLMAXUSRMNTUSRHW	84	
ODMVSYSLSHRLIBMAXPAGESC	6C	
ODMVSYSLSHRLIBMAXPAGESH	70	
ODMVSYSLSHRLIBRGNSIZEC	64	
ODMVSYSLSHRLIBRGNSIZEH	68	
ODMVSYSPLEX	458	20
ODMVSYSSTKHIGHWATER	66C	
ODMVSYSSTKINUSE	668	
ODMVSYSTHDHIGHWATER	66C	
ODMVSYSTHDINUSE	668	
ODMVTHDARRAY	0	
ODMVTHDARRAY_LEN	0	4
ODMVTHDARRAYELEMPTR	0	
ODMVTHDARRAYPTR	468	
ODMVTHDARRAYSIZE	464	
ODMVTHDBRL	70	
ODMVTHDBRLDEVNO	70	
ODMVTHDBRLFILE	7C	
ODMVTHDBRLINO	74	
ODMVTHDBRLOFTE	8C	

Table 394. Cross Reference for BPXZODMV (continued)

Name	Offset	Hex Tag
ODMVTHDBRLOWNERPID	78	
ODMVTHDBRLREQPTR	98	
ODMVTHDBRLRESERVEDATA	A8	
ODMVTHDBRLSYSNAME	A0	
ODMVTHDBRLVNOD	90	
ODMVTHDEND	B0	
ODMVTHDFLAGS	6E	
ODMVTHDID	0	
ODMVTHDJOBNAME	C	
ODMVTHDSTATUS1	69	
ODMVTHDSTATUS2	6A	
ODMVTHDSTATUS3	6B	
ODMVTHDSTATUS4	6C	
ODMVTHDSTATUS5	6D	
ODMVTHDSYSCALL	1C	
ODMVTHDTAG	28	
ODMVTHDTAGSET	6E	80
ODMVTHDTCB	8	
ODMVTHDTTIME	20	
ODMVTHDUSERNAME	14	
ODMVTHREADCNT	A0	
ODMVTHREADS	0	
ODMVTHREADS_LEN	B0	B0
ODMVTIME	1DF	
ODMVTIMESTAMP	1D4	
ODMVTTYGROUP	43C	
ODMVTYPE	8	4
ODMVTYPENAME	4	
ODMVUIDPARM	54	
ODMVUMTBARRAYPTR	4	
ODMVUMTBBUILT	459	20
ODMVUMTBCOUNTS	4	
ODMVUMTBELECNT	0	
ODMVUMTBELEMNT	0	
ODMVUMTBELEMNT_LEN	4	8
ODMVUMTBHDR	0	
ODMVUMTBHDR_LEN	4	8
ODMVUMTBUID	0	
ODMVUPARM	16	
ODMVUPARM2	26	
ODMVUS	C	10
ODMVUSER	8	
ODMVUSERIDTABLE	1A5	
ODMVUSERIDTABLELEN	1A2	
ODMVUSERMNTSSYSLIMIT	54	
ODMVUSERMNTSUSRLIMIT	58	
ODMVUSRMNT	E	20
ODMVUSRMNTTBPTR	4A4	
ODMVUTRACED	35	1

Table 394. Cross Reference for BPXZODMV (continued)

Name	Offset	Hex Tag
ODMVVER#ONE	F0	10
ODMVVER#ONEONE	F0	11
ODMVVER#ONETWO	F0	12
ODMVVERNUM	0	
ODMVVERSION	450	
ODMVVSERVER	8	10
ODMVWAGE	9	10
ODMVWAITC	F0	C3
ODMVWAITERS	E	40
ODMVWAITF	F0	C6
ODMVWAITO	F0	D2
ODMVWAITP	34	40
ODMVWLATCHES	9	80
ODMVWMESSAGES	9	40
ODMVWOTHER	9	20
ODMVWSPECIAL	9	8
ODMVZOMBIE	F0	E9
ODMVZOMBIE2	F0	D3

Chapter 79. CAFM Information

CAFM Heading Information

Common Name:	Common Allocation Function Map
Macro ID:	IEFZB428
DSECT Name:	FUNCMAP
Owning Component:	Allocation/Unallocation (SC1B4)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 230 Key: 1 Residency: Any
Size:	4 decimal bytes
Created by:	Callers of Common Allocation
Pointed to by:	Parameter list to IEFAB421
Serialization:	None
Function:	Indicates what functions are required in Common Allocation

CAFM mapping

Table 395. Structure FUNCMAP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	4	FUNCMAP	COMMON ALLOC FUNCTION MAP
		1...		VOLMNTSW	ALLOW VOLUME MOUNTING
		1...		ALCMOUNT	
		.1..		WRTMSGSW	ALLOC MSGLEVEL INDICATOR
		.1..		ALCMSGLV	
		..1.		UWAITSW	OK TO WAIT FOR UNITS
		..1.		ALCWTUNT	
		...1		VWAITSW	OK TO WAIT FOR VOLUMES
		...1		ALCWTVOL	
		.... 1...		MSSTRMSW	ISSUE MSS TERM CALL
		.... 1...		ALCMSSTM	
		.... .1..		OFFDEVSW	OK TO CONSIDER OFFLINE UNITS
		.... .1..		ALCOFFDV	
		.... ..1.		CCLMNTSW	ALLOW OPERATOR TO CANCEL VOL MOUNTS WITHOUT CANCELING JOB
		.... ..1.		ALCCANCL	
		1		GENLOKSW	FOR SOME (MARKED) SPECIFIC VOL REQS,LOCK WHOLE GENERIC
		1		ALCGENER	
1	(1)	1...		SSEMSGSW	SUBSYSTEM TO RETURN
		1...		ALCSSMSG	ERROR MESSAGES
		.1..		HDRMSGSW	WRITE ALLOC HEADER MSG
		.1..		ALCHDMSG	
		..1.		MTRJOBSW	MONITOR JOBNAMES SWITCH
		..1.		ALCJOBNM	
		...1		NOTIOTNQ	DONT HAVE SCRATCH ENQ TIOT
		...1		ALCNOENQ	

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Table 395. Structure FUNCMAP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		TRKMSW	ASSIGN TRACK MASK TO SYSOUT DATA SETS
		.... 1...		ALCATRKM	
		.... .1..		WAITOKSW	OK TO WAIT FOR SUBSYSTEM D.S
		.... .1..		ALCSUBWT	
		.... ..1.		ASNMSW	ASSIGN DATA SET NAME TO SUBSYSTEM DATA SET
		.... ..1.		ALCASDSN	
		1		EXTRACAL	CALL FOR RETRY OR REQUEUE
2	(2)	1...		NOBUFWRT	DO NOT CALL IEEAB401 TO WRITE MESSAGE BUFFER
		.1..		CAFMSGS	GET MESSAGES DURING SMS EXITS
		..1.		ALCXTIOT	XTIOT REQUESTED via S99TIOEX, S99ACUCB or S99DXACU (DYNAMIC ALLOCATION ONLY) Set by: IEFDB413 Read by: IEFAB421
		...1		ALCMNTCR	Allocation request on behalf of the MOUNT command
		.... 1...		ALCNOCAP	NOCAPTURE requested via S99ACUCB or S99DXACU (DYNAMIC ALLOCATION ONLY)
		.... .1..		LOGSMSER	Request SMS LOGREC entry. Is only to be set by IEFDB413, as Batch callers will always have messages issued.
		.... ..1.		FNCDSABA	Propagation bit for SVC 99 request for DSAB above the 16MB line Set by: IEFDB413 from S99DSABA or S99DXACU Read by: IEFAB421
		1		ALCBATCH	Indicates that step allocation is for a batch request. Set by IEFBB404, read by IEFAB421.
3	(3)	1...		ALCRECRS	Indicates that step allocation is entered recursively. Set by IEFAB490, read by IEFAB421.
		.1..		FNCDSABDEFERQUEUE	Indicates that common allocation should build the DSAB and DSAM entry but should not queue them.
		..11 1111		*	RESERVED

Table 396. Cross Reference for CAFM

Name	Offset	Hex Tag
ALCASDSN	1	02
ALCATRKM	1	08
ALCBATCH	2	01
ALCCANCL	0	02
ALCGENER	0	01
ALCHDMSG	1	40
ALCJOBNM	1	20
ALCMNTCR	2	10
ALCMOUNT	0	80

Table 396. Cross Reference for CAFM (continued)

Name	Offset	Hex Tag
ALCMSGLV	0	40
ALCMSSTM	0	08
ALCNOCAP	2	08
ALCNOENQ	1	10
ALCOFFDV	0	04
ALCRECRS	3	80
ALCSSMSG	1	80
ALCSUBWT	1	04
ALCWTUNT	0	20
ALCWTVOL	0	10
ALCXTIOT	2	20
ASNMSW	1	02
CAFMSGS	2	40
CCLMNTSW	0	02
EXTRACAL	1	01
FNCDSABA	2	02
FNCDSABDEFERQUEUE	3	40
FUNCMAP	0	
GENLOKSW	0	01
HDRMSGSW	1	40
LOGSMSER	2	04
MSSTRMSW	0	08
MTRJOBSW	1	20
NOBUFWRT	2	80
NOTIOTNQ	1	10
OFFDEVSW	0	04
SSEMSGSW	1	80
TRKMSW	1	08
UWAITSW	0	20
VOLMNTSW	0	80
VWAITSW	0	10
WAITOKSW	1	04
WRTMSGSW	0	40

Chapter 80. CBDZCIP Information

CBDZCIP Programming Interface Information

CBDZCIP is a programming interface.

CBDZCIP Heading Information

Common Name:	Control Unit Information Parameters (CIP)
Macro ID:	CBDZCIP
DSECT Name:	CIP
Owning Component:	Hardware Configuration Definition (SC1XL)
Eye-Catcher ID:	CIP Offset: 0 Length: 4
Storage Attributes:	Main Storage: Obtained by UIM Data Space: SUBPOOL AND KEY: Residency: Determined by caller
Size:	See generated data
Created by:	UIM
Pointed to by:	N/A
Serialization:	None
Function:	Maps the Control Unit Information Parameters

CBDZCIP mapping

Table 397. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

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Table 397. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
%CIP00:;
     START OF SPECIFICATIONS
    ACRONYM: CBDZCIP
    EXTERNAL CLASSIFICATION: PSPI
    END OF EXTERNAL CLASSIFICATION
    MACRO NAME: CBDZCIP
    DSECT NAME: CIP
    DESCRIPTIVE NAME: Control Unit Information Parameters (CIP)
    PROPRIETARY STATEMENT:
       LICENSED MATERIALS - PROPERTY OF IBM
       THIS MACRO IS "RESTRICTED MATERIALS OF IBM"
       5694-A01 COPYRIGHT IBM CORP. 1990, 2007
    STATUS: HCS7760
    COMPONENT: Hardware Configuration Definition (SC1XL)
    EYE-CATCHER: CIP
      OFFSET: 0
      LENGTH: 4
    STORAGE ATTRIBUTES:
      MAIN STORAGE: Obtained by UIM
      VIRTUAL STORAGE:
      AUXILIARY STORAGE:
      DATA SPACE:
      SUBPOOL AND KEY:
      SUBPOOL:
      KEY:
      RESIDENCY: Determined by caller
    SIZE: See generated data
    CREATED BY: UIM
    POINTED TO BY: N/A
    SERIALIZATION: None
    FUNCTION: Maps the Control Unit Information Parameters
    MODULE TYPE: Bilingual Mapping Macro
    DEPENDENCIES: None
    RESTRICTIONS: For HCD and UIM use only
    PROCESSOR: Assembler H and PL/AS Compiler
    INVOCATION:
       PLAS: %DCL CIPDEF CHAR
                 %CIPDEF='value'
                     value = 'BDY(WORD)', 'BASED' or
                             'BASED(xxxxxxxx)'
                 %INCLUDE SYSLIB(CBDZCIP)
                 If CIPDEF is not declared and initialized, the
                 default is 'BDY(WORD)'.
       ASSEMBLER:
                  CBDZCIP DEV=1,TYPE=DSECT
                  DEV (number of attached devices) parameter
                  defaults to one. Must be set to the number of
                  devices to be contained in the attachable device
                  list.
                  TYPE=DSECT causes the generation of the mapping
                  structure for the device attached list
    CHANGE ACTIVITY:
      $L0=HCD, ,HCSH101 880324 BOEB: Hardware Configuration Dialog
      $H1=HCD, ,HCSH101 900530 BOEB: IOC channel support
      $L3=HCD, ,HCSH102 900730 BOEB: Additional Validation Rules
      $L7=HCD, ,HCSH301 911010 BOEB: Switch support
```

Table 397. Structure (continued)

```
  Offset    Offset
     Dec       Hex Type                 Len  Name(Dim)                 Description
-------------------------------------------------------------------------------

      $LD=HCD, ,HCSH301 911118 BOEB: HCD/VM support
      $LT=CF, ,HCSH501 930323 BOEB: Support for Coupling Facility
      $M3=QUAL ,HCSH501 930915 BOEB: Quality improvement
      $H3=HCD, ,HCSH501,930927,BOEB: CBY support, OSA enabling
      $H4=OSA, ,HCSH501 940210 BOEB: Open Systems Adapter Support
      $H5=ISD, ,HCSH521 941013 BBWA: New hardware support
      $01=OW18759, HCSH501 960228 BBEI: CIPXHCON flag added
      $H2=PHOENIX HCSH521 960320 BKRE: PHOENIX support
      $L2=ICB ,HCS6051 971222 BBEI: ICB support
      $H6=FIBRE ,HCS6051 980227 BBEI: Fibre Channel Support
      $H7=OSAEX ,HCS6051 980505 WEID: OSD/OSE Support
      $H8=PLTR ,HCS6091 990122 WEID: EIO,DSD Support
      $H9=PEER ,HCS6091 991214 BBEI: Peer CF Channel Support
      $HA=FCMIG ,HCS6091 000217 BBEI: ESCON/FICON intermix support
      $HB=iQDIO ,HCS6091 000614 BBEI: iQDIO Channel Support
      $HC=QUAL ,HCS6091 000901 BBEI: Add new field CIPMXPRT
                                     (maximum number of logical
                                     paths on a Control unit port)
      $HD=QUAL ,HCS6091 010625 BBEI: Add new field CIPMXPFC
                                     (maximum number of logical
                                     paths on a FICON control
                                     unit port)
      $HE=OSC ,HCS7708 030217 BBEI: OSC Channel Support
      $HF=OSN ,HCS7720 041222 WEID: OSN Channel Support
      $HG=CIB ,HCS7740 041214 WEID: CIB Channel Support
      $HH=OSX ,HCS7760 090909 BBEI: OSX/OSM Channel Support
     END OF SPECIFICATIONS
%GOTO CIP01;
        Control Unit Information Parameters (CIP)
                                                                    WS
-------------------------------------------------------------------------------
       0       (0) SIGNED                4  CIP(0)                  CU Information Parameters
       0       (0) CHARACTER             4  CIPID                   CIP identifier ('CIP ')
       4       (4) ADDRESS               1  CIPVER                  CIP version number X'01'
       5       (5) BITSTRING             3                          Reserved
       8       (8) CHARACTER            12  CIPUNMD(0)              Control unit type and model
       8       (8) CHARACTER             8  CIPUNIT                 Control unit type
      16      (10) CHARACTER             4  CIPMODL                 Model number (hex zero if not
                                                                     present)
      20      (14) ADDRESS               4  CIPGROUP                Control Unit grouping
                   .... ....                CIPGDASD                "X'80000000'" .. DASD
                   .... ....                CIPGTAPE                "X'40000000'" .. Tape
                   .... ....                CIPGCLUS                "X'20000000'" .. Cluster
                                                                     Controller
                   .... ....                CIPGCOMM                "X'10000000'" .. Communication
                                                                     Controller
                   .... ....                CIPGMICR                "X'08000000'" .. MICR/OCR
                   .... ....                CIPGGRPH                "X'04000000'" .. Graphics device
                   .... ....                CIPGUR                  "X'02000000'" .. Unit Record
                   .... ....                CIPGOTHR                "X'01000000'" .. Other
      24      (18) BITSTRING             3                          Reserved
      27      (1B) BITSTRING             1  CIPFLAG                 Flag byte
                   1... ....                CIPFCUD                 "X'80'" .. Device and CU are
                                                                     physically the same
                   .1.. ....                CIPFDMOD                "X'40'" .. This model is the
                                                                     default model for this CU
                   ..1. ....                CIPFRAID                "X'20'" .. Reserved
```

Table 397. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	BITSTRING	4		Reserved
32	(20)	BITSTRING	12		Reserved
		Special validation flags			
44	(2C)	BITSTRING	1	CIPVALF	Validation flags
		1...		CIPUAES0	"X'80'" .. If 1, indicates that the unit address range must start with 00 when the control unit is connected to an ESCON channel path
		.1..		CIPXHCON	"X'40'" .. If 1, indicates that the control unit can only be connected to one host (LPAR) at a time
		..1.		CIPNOMIF	"X'20'" .. If 1, indicates that the control unit can not be connected to a shared channel path.
		...1		CIPCUSTR	"X'10'" .. If 1, indicates that the control unit needs to be customized, if the link address changes.
		.... .1..		CIPFCNMX	"X'04'" .. If 1, indicates that the control unit does not support an intermix of ESCON and native FICON channels
45	(2D)	BITSTRING	1		Reserved
		Processing Flags			
46	(2E)	BITSTRING	1	CIPPRFLG	Processing flags
		1...		CIPPTUDL	"X'80'" .. Update attachable device list only
		.1..		CIPFINT	"X'40'" .. if 1, internal CIT to be built
		..1.		CIPNOFCV	"X'20'" .. if 1, CNC attachment support is not defaulted to FCV
47	(2F)	BITSTRING	1		Reserved
		Attachment Information			
48	(30)	ADDRESS	2	CIPMXDEV	maximum number of devices which can be attached to CU (contains hex zero, if no upper limit is defined)
50	(32)	ADDRESS	2	CIPRUAN	recommended number of unit addresses (contains hex zero, if no value is defined)
52	(34)	BITSTRING	2	CIPATTT	Attachment type
52	(34)	BITSTRING	0	CIPATBL	"X'8000'" .. attachable to BlockMPX (par.)
52	(34)	BITSTRING	0	CIPATBY	"X'4000'" .. attachable to ByteMPX (par.)
52	(34)	BITSTRING	0	CIPATSER	"X'2000'" .. attachable to ESCON channel (TYPE=CNC)
52	(34)	BITSTRING	0	CIPATCTC	"X'1000'" .. attachable to ESCON CTC

Table 397. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	BITSTRING	0	CIPATFX	"X'0800'" .. attachable to ESCON converter channel (TYPE=CVC)
52	(34)	BITSTRING	0	CIPATIOC	"X'0400'" .. attachable to IOC channel
52	(34)	BITSTRING	0	CIPATIRC	"X'0200'" .. attachable to IRC CHPID
52	(34)	BITSTRING	0	CIPATISC	"X'0100'" .. attachable to ISC CHPID
		1...		CIPATCBY	"X'0080'" .. attachable to CBY CHPID
		.1..		CIPATOSA	"X'0040'" .. attachable to OSA CHPID
		..1.		CIPATISD	"X'0020'" .. attachable to ISD CHPID
		...1		CIPATDSD	"X'0010'" .. attachable to DSD chpid
		.... .1..		CIPATFC	"X'0004'" .. attachable to FC CHPID
		.... ..1.		CIPATFCV	"X'0002'" .. attachable to FCV CHPID
54	(36)	BITSTRING	1	CIPSPROT	Supported protocols
		1...		CIPSPINT	"X'80'" .. DC interlock
		.1..		CIPSPSTR	"X'40'" .. Data streaming
		..1.		CIPSP4MB	"X'20'" .. 4.5MB data streaming
55	(37)	ADDRESS	1	CIPMXCHP	Maximum number of CHPIDs which can be attached to control unit (contains hex zero, if no value is defined)
		Control Unit Type information			
56	(38)	BITSTRING	2	CIPCUTYP	CU type
56	(38)	BITSTRING	0	CIPCUCTC	"X'8000'" .. CU type = CTC
56	(38)	BITSTRING	0	CIPCUSWI	"X'4000'" .. CU type = Switch
56	(38)	BITSTRING	0	CIPCUOSA	"X'2000'" .. CU type = OSA
58	(3A)	BITSTRING	2		Reserved
		Logical CU addressing			
60	(3C)	BITSTRING	1	CIPLFLGS	Logical CU addressing flags
		1...		CIPLFRS	"X'80'" .. allowed range for CUADD specified
		.1..		CIPLFMHC	"X'40'" .. multiple hosts can connect to the same CU address
		..1.		CIPLFCUS	"X'20'" .. control unit supports CUADD
61	(3D)	ADDRESS	1	CIPLMIN	Minimum value of allowed CUADD
62	(3E)	ADDRESS	1	CIPLMAX	Maximum value of allowed CUADD
63	(3F)	ADDRESS	1	CIPLMXNO	Maximum number of logical control units supported (contains hex zero, if no value is defined)
		Default Settings			
64	(40)	ADDRESS	1	CIPDIOCL	Default I/O concurrency level
64	(40)	X'1'	0	CIPDIOT1	"1" .. one I/O request at a time

Table 397. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
64	(40)	X'2'	0	CIPDIOT2	"2" .. multiple I/O requests
64	(40)	X'3'	0	CIPDIOT3	"3" .. multiple I/O requests until dedicated allegiance
65	(41)	ADDRESS	1	CIPDPROT	Default protocol used
65	(41)	X'1'	0	CIPDPDC	"1" .. DC interlock protocol
65	(41)	X'2'	0	CIPDPDS	"2" .. 3.0MB data streaming prot
65	(41)	X'3'	0	CIPDPDS4	"3" .. 4.5MB data streaming prot
66	(42)	BITSTRING	2		Reserved
68	(44)	BITSTRING	8		Reserved
		Attachable device information			
76	(4C)	ADDRESS	4	CIPDVLC	Count of device names in list
80	(50)	ADDRESS	4	CIPDVLP	Pointer to device list
84	(54)	ADDRESS	4		Reserved
		Unit address/range Rules Note: if any of the below values is zero, no policing will be done.			
88	(58)	CHARACTER	8	CIPUADEF(0)	Unit address rules for control unit
88	(58)	ADDRESS	2	CIPMINUA	Minimum number of unit addresses
90	(5A)	ADDRESS	2	CIPMAXUA	Maximum number of unit addresses
92	(5C)	ADDRESS	2	CIPMXUAR	Maximum number of unit address ranges supported by control unit
94	(5E)	ADDRESS	2		Reserved
		Logical Path Rules			
96	(60)	ADDRESS	2	CIPMXPTH	Maximum number of logical paths supported by the control unit. (contains hex zero if no maximum is defined)
98	(62)	ADDRESS	2	CIPMNGRP	Minimum group attachment value
100	(64)	ADDRESS	2	CIPMXPRT	Maximum number of logical paths on a single ESCON control unit port (contains hex zero if no maximum is defined)
102	(66)	ADDRESS	2	CIPMXPFC	Maximum number of logical paths on a single FICON control unit port (contains hex zero if no maximum is defined)
104	(68)	BITSTRING	4		Reserved
		Attachment Information Part 2			
108	(6C)	ADDRESS	2	CIPMINDV	minimum number of devices which can be connected to CU (contains hex zero, if no lower limit is defined)
110	(6E)	ADDRESS	2	CIPRAID	Reserved
112	(70)	ADDRESS	2	CIPNRAID	Reserved
114	(72)	BITSTRING	2		Reserved
		Pointer to CIP extension			
116	(74)	ADDRESS	4	CIPEXTPT	Pointer to extension area
120	(78)	BITSTRING	8		Reserved

Table 397. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
The following array maps the attachable device list. If more than one device exists which can be attached to the control unit you must code DEV=n on the macro statement where 'n' is the number of devices.					
128	(80)	SIGNED	4	CIPADEV(0)	Attachable device list
128	(80)	BITSTRING	12		Device type/model
128	(80)	X'C'	0	CIPALENG	"*-CIPADEV" Length of attachable device list
CIP Extension Area					
140	(8C)	SIGNED	4	CIPEXTAR(0)	Extension area mapping
140	(8C)	BITSTRING	32	CIPVALUA	
172	(AC)	BITSTRING	32	CIPREQUA	Required unit addresses
204	(CC)	CHARACTER	17	CIPPROUA(0)	Recommended unit addresses
204	(CC)	BITSTRING	1	CIPRUARN	Number of UA ranges
205	(CD)	BITSTRING	2	CIPRUARS(8)	Array of ranges
205	(CD)	BITSTRING	1	CIPRUA	Starting unit address
206	(CE)	BITSTRING	1	CIPRUARF	Replication factor
221	(DD)	X'10'	0	CIPRUALN	"*-CIPRUARS" Length of array
221	(DD)	BITSTRING	15		Reserved
236	(EC)	BITSTRING	8	CIPCHPAT(0)	Chpid type attachments
236	(EC)	BITSTRING	2		Chpid type attachments 1
238	(EE)	BITSTRING	2	CIPATTT2	Chpid type attachments 2
238	(EE)	BITSTRING	0	CIPATCBR	"X'8000'" .. attachable to CBR chpid
238	(EE)	BITSTRING	0	CIPATCBS	"X'4000'" .. attachable to CBS chpid
238	(EE)	BITSTRING	0	CIPATICR	"X'2000'" .. attachable to ICR chpid
238	(EE)	BITSTRING	0	CIPATICS	"X'1000'" .. attachable to ICS chpid
238	(EE)	BITSTRING	0	CIPATOSD	"X'0800'" .. attachable to OSD chpid
238	(EE)	BITSTRING	0	CIPATOSE	"X'0400'" .. attachable to OSE chpid
238	(EE)	BITSTRING	0	CIPATEIO	"X'0200'" .. attachable to EIO chpid
238	(EE)	BITSTRING	0	CIPATCFP	"X'0100'" .. attachable to CFP chpid
		1...		CIPATCBP	"X'0080'" .. attachable to CBP chpid
		.1..		CIPATICP	"X'0040'" .. attachable to ICP chpid
		..1.		CIPATIQD	"X'0020'" .. attachable to IQD chpid
		...1		CIPATFCP	"X'0010'" .. attachable to FCP chpid
		.... .1..		CIPATOSC	"X'0004'" .. attachable to OSC chpid
		.... ..1.		CIPATOSN	"X'0002'" .. attachable to OSN chpid
		1		CIPATCIB	"X'0001'" .. attachable to CIB chpid

Table 397. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
240	(F0)	BITSTRING	2	CIPATTT3	Chpid type attachments 3
240	(F0)	BITSTRING	0	CIPATOSX	"X'8000'" .. attachable to OSX chpid
240	(F0)	BITSTRING	0	CIPATOSM	"X'4000'" .. attachable to OSM chpid
242	(F2)	BITSTRING	2		Reserved
244	(F4)	BITSTRING	24		Reserved
244	(F4)	X'80'	0	CIPEXTLN	"*-CIPEXTAR" Length of extension area

Table 398. Cross Reference for CBDZCIP

Name	Offset	Hex Tag
CIP	0	
CIPADEV	80	
CIPALENG	80	C
CIPATBL	34	8000
CIPATBY	34	4000
CIPATCBP	EE	80
CIPATCBR	EE	8000
CIPATCBS	EE	4000
CIPATCBY	34	80
CIPATCFP	EE	100
CIPATCIB	EE	1
CIPATCTC	34	1000
CIPATDSD	34	10
CIPATEIO	EE	200
CIPATFC	34	4
CIPATFCP	EE	10
CIPATFCV	34	2
CIPATFX	34	800
CIPATICP	EE	40
CIPATICR	EE	2000
CIPATICS	EE	1000
CIPATIOC	34	400
CIPATIQD	EE	20
CIPATIRC	34	200
CIPATISC	34	100
CIPATISD	34	20
CIPATOSA	34	40
CIPATOSC	EE	4
CIPATOSD	EE	800
CIPATOSE	EE	400
CIPATOSM	F0	4000
CIPATOSN	EE	2
CIPATOSX	F0	8000
CIPATSER	34	2000
CIPATTT	34	0
CIPATTT2	EE	0

Table 398. Cross Reference for CBDZCIP (continued)

Name	Offset	Hex Tag
CIPATTT3	F0	0
CIPCHPAT	EC	
CIPCUCTC	38	8000
CIPCUOSA	38	2000
CIPCUSTR	2C	10
CIPCUSWI	38	4000
CIPCUTYP	38	0
CIPDIOCL	40	
CIPDIOT1	40	1
CIPDIOT2	40	2
CIPDIOT3	40	3
CIPDPDC	41	1
CIPDPDS	41	2
CIPDPDS4	41	3
CIPDPROT	41	
CIPDVLC	4C	
CIPDVLP	50	
CIPEXTAR	8C	
CIPEXTLN	F4	80
CIPEXTPT	74	
CIPFCNMX	2C	4
CIPFCUD	1B	80
CIPFDMOD	1B	40
CIPFINT	2E	40
CIPFLAG	1B	0
CIPFRAID	1B	20
CIPGCLUS	14	0
CIPGCOMM	14	0
CIPGDASD	14	0
CIPGGRPH	14	0
CIPGMICR	14	0
CIPGOTHR	14	0
CIPGROUP	14	
CIPGTAPE	14	0
CIPGUR	14	0
CIPID	0	C3C9D740
CIPLFCUS	3C	20
CIPLFLGS	3C	0
CIPLFMHC	3C	40
CIPLFRS	3C	80
CIPLMAX	3E	
CIPLMIN	3D	
CIPLMXNO	3F	
CIPMAXUA	5A	
CIPMINDV	6C	
CIPMINUA	58	
CIPMNGRP	62	
CIPMODL	10	40404040
CIPMXCHP	37	

Table 398. Cross Reference for CBDZCIP (continued)

Name	Offset	Hex Tag
CIPMXDEV	30	
CIPMXPFC	66	
CIPMXPRT	64	
CIPMXPTH	60	
CIPMXUAR	5C	
CIPNOFCV	2E	20
CIPNOMIF	2C	20
CIPNRAID	70	
CIPPRFLG	2E	0
CIPPROUA	CC	
CIPPTUDL	2E	80
CIPRAID	6E	
CIPREQUA	AC	0
CIPRUA	CD	
CIPRUALN	DD	10
CIPRUAN	32	
CIPRUARF	CE	
CIPRUARN	CC	0
CIPRUARS	CD	0
CIPSPINT	36	80
CIPSPROT	36	0
CIPSPSTR	36	40
CIPSP4MB	36	20
CIPUADEF	58	
CIPUAES0	2C	80
CIPUNIT	8	40404040
CIPUNMD	8	
CIPVALF	2C	0
CIPVALUA	8C	FFFFFFFF
CIPVER	4	
CIPXHCON	2C	40

Chapter 81. CBDZDCP Information

CBDZDCP Programming Interface Information

CBDZDCP is a programming interface.

CBDZDCP Heading Information

Common Name:	Device Characteristics Parameters
Macro ID:	CBDZDCP
DSECT Name:	DCP
Owning Component:	Hardware Configuration Definition (SC1XL)
Eye-Catcher ID:	DCP Offset: 0 Length: 4
Storage Attributes:	Main Storage: Obtained by caller Data Space: SUBPOOL AND KEY: Residency: Determined by caller
Size:	See generated data
Created by:	UIM
Pointed to by:	N/A
Serialization:	None
Function:	Maps the Device Characteristics Parameters for DASD UIMs

CBDZDCP mapping

Table 399. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

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Table 399. Structure (continued)

```
%DCP00: ;
     START OF SPECIFICATIONS
    ACRONYM: CBDZDCP
    EXTERNAL CLASSIFICATION: PSPI
    END OF EXTERNAL CLASSIFICATION
    MACRO NAME: CBDZDCP
    DSECT NAME: DCP
    DESCRIPTIVE NAME: Device Characteristics Parameters
    PROPRIETARY STATEMENT:
       LICENSED MATERIALS - PROPERTY OF IBM
       THIS MACRO IS "RESTRICTED MATERIALS OF IBM"
       5647-A01 (C) COPYRIGHT IBM CORP. 1990, 2000
    STATUS: HCS6091
    COMPONENT: Hardware Configuration Definition (SC1XL)
    EYE-CATCHER: DCP
      OFFSET: 0
      LENGTH: 4
    STORAGE ATTRIBUTES:
      MAIN STORAGE: Obtained by caller
      VIRTUAL STORAGE:
      AUXILIARY STORAGE:
      DATA SPACE:
      SUBPOOL AND KEY:
      SUBPOOL:
      KEY:
      RESIDENCY: Determined by caller
    SIZE: See generated data
    CREATED BY: UIM
    POINTED TO BY: N/A
    SERIALIZATION: None
    FUNCTION: Maps the Device Characteristics Parameters
                  for DASD UIMs
    MODULE TYPE: Bilingual MACRO
    DEPENDENCIES: None
    RESTRICTIONS: For HCD and UIM use only
    PROCESSOR: PLAS Compiler or Assembler-H
    INVOCATION:
           PLAS:
                 %DCL DCPDEF CHAR
                 %DCPDEF='value'
                     value = 'BDY(WORD)', 'BASED' or
                             'BASED(xxxxxxxx)'
                 %INCLUDE SYSLIB(CBDZDCP)
                 If DCPDEF is not declared and initialized, the
                 default is 'BDY(WORD)'
            ASSEMBLER:
                  CBDZDCP
    CHANGE ACTIVITY:
    $L0=HCD ,HCSH101,900425,BOEB: Hardware Configuration Dialog
     END OF SPECIFICATIONS
%GOTO DCP01;
```

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	SIGNED	4	(0)	Device Characteristics Parms.
0	(0)	CHARACTER	4	DCPID	DCP identifier
4	(4)	CHARACTER	4	DCPHDR(0)	Word of control information
4	(4)	BITSTRING	1	DCPTYPE	DASD type code (same as UCBTBYT4)
5	(5)	SIGNED	1	DCPLNGTH	Length of DCT entry
6	(6)	BITSTRING	2		Reserved and should be zero
6	(6)	X'8'	0	DCPHDEND	"*" End of DCP header

Table 399. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	CHARACTER	22	DCPENTRY(0)	Device Characteristics Parameters entry. Note that its length must change when fields are added or deleted from the MVSCP.
8	(8)	SIGNED	2	DCPCYL	Physical number of cylinders per volume
10	(A)	SIGNED	2	DCPTRK	Number of tracks per cylinder
12	(C)	SIGNED	2	DCPTRKLN	Number of bytes per track
14	(E)	SIGNED	2	DCPOVHD(0)	Overhead for all records
14	(E)	SIGNED	1	DCPOVHNL	Overhead for not last records
15	(F)	SIGNED	1	DCPOVHL	Overhead for last record
16	(10)	SIGNED	1	DCFOVNK	Decrement for non-keyed records
17	(11)	BITSTRING	1	DCPFLAGS	Flags
		...1		DCPMODU	"X'10'" Track requires modulo arithmetic
		.... 1...		DCP2BOV	"X'08'" DCPOVHD field valid
		.... .1..		DCPBI	"X'04'" Device has 2301 related addressing.
		.... ..1.		DCPBB	"X'02'" Device has BB and CCHHR addressing
		1		DCPFTOL	"X'01'" Apply tolerance factor
18	(12)	SIGNED	2	DCPTOL	Tolerance
20	(14)	SIGNED	2	DCPALT	Alternate tracks
22	(16)	SIGNED	2	DCPOVR0	Record 0 overhead
24	(18)	SIGNED	1	DCPSECT	Number of sectors in full track
25	(19)	SIGNED	1	DCPDSECT	Number of data sectors
26	(1A)	SIGNED	2	DCPBPSEC	Bytes per sector
28	(1C)	SIGNED	2	DCPMOD1	Modulo factor
28	(1C)	X'1E'	0	DCPEND	"*" End of DCP header and entry.
0	(0)	CHARACTER	30	DCP	Device Characteristics Parms.
30	(1E)	CHARACTER	4	DCPIDNM	Constant for DCPID.
The following constants are used to fill in the DCPINDEX field which indicates the DASD type code for the particular entry.					
		.... .111		DCP23052	"X'07'" DASD type code for 2305-2 entry.
		.... 1..1		DCP3330	"X'09'" DASD type code for 3330 entry.
		.... 1.1.		DCP3340	"X'0A'" DASD type code for 3340 entry.
		.... 1.11		DCP3350	"X'0B'" DASD type code for 3350 entry.
		.... 11..		DCP3375	"X'0C'" DASD type code for 3375 entry.
		.... 11.1		DCP33301	"X'0D'" DASD type code for 3330, Mod 11 entry.
		.... 111.		DCP3380	"X'0E'" DASD type code for 3380 entry.
		 1111		DCP3390	"X'0F'" DASD type code for 3390 entry.

CBDZDCP mapping

Table 400. Cross Reference for CBDZDCP

Name	Offset	Hex Tag
DCFOVNK	10	
DCP	0	
DCPALT	14	
DCPBB	11	2
DCPBI	11	4
DCPBPSEC	1A	
DCPCYL	8	
DCPDSECT	19	
DCPEND	1C	1E
DCPENTRY	8	
DCPFLAGS	11	
DCPFTOL	11	1
DCPHDEND	6	8
DCPHDR	4	
DCPID	0	
DCPIDNM	1E	C4C3D740
DCPLNGTH	5	
DCPMODU	11	10
DCPMOD1	1C	
DCPOVHD	E	
DCPOVHL	F	
DCPOVHNL	E	
DCPOVR0	16	
DCPSECT	18	
DCPTOL	12	
DCPTRK	A	
DCPTRKLN	C	
DCPTYPE	4	
DCP2BOV	11	8
DCP23052	1E	7
DCP3330	1E	9
DCP33301	1E	D
DCP3340	1E	A
DCP3350	1E	B
DCP3375	1E	C
DCP3380	1E	E
DCP3390	1E	F

Chapter 82. CBDZDEVL Information

CBDZDEVL Programming Interface Information

CBDZDEVL is a programming interface.

CBDZDEVL Heading Information

Common Name:	Device Information Look-up Parameter List
Macro ID:	CBDZDEVL
DSECT Name:	DEVL
Owning Component:	Hardware Configuration Definition (SC1XL)
Eye-Catcher ID:	DEVL Offset: 0 Length: 4
Storage Attributes:	Main Storage: Obtained by UIM Data Space: SUBPOOL AND KEY: Residency: Determined by caller
Size:	See generated data
Created by:	UIM
Pointed to by:	N/A
Serialization:	None
Function:	Maps the Device Information Lookup Parameter List

CBDZDEVL mapping

Table 401. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

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Table 401. Structure (continued)

```
%DEVL00: ;
     START OF SPECIFICATIONS
    ACRONYM: CBDZDEVL
    EXTERNAL CLASSIFICATION: PSPI
    END OF EXTERNAL CLASSIFICATION
    MACRO NAME: CBDZDEVL
    DSECT NAME: DEVL
    DESCRIPTIVE NAME: Device Information Look-up Parameter List
    PROPRIETARY STATEMENT:
       LICENSED MATERIALS - PROPERTY OF IBM
       THIS MACRO IS "RESTRICTED MATERIALS OF IBM"
       5647-A01 (C) COPYRIGHT IBM CORP. 1990, 2000
    STATUS: HCS6091
    COMPONENT: Hardware Configuration Definition (SC1XL)
    EYE-CATCHER: DEVL
      OFFSET: 0
      LENGTH: 4
    STORAGE ATTRIBUTES:
      MAIN STORAGE: Obtained by UIM
      VIRTUAL STORAGE:
      AUXILIARY STORAGE:
      DATA SPACE:
      SUBPOOL AND KEY:
      SUBPOOL:
      KEY:
      RESIDENCY: Determined by caller
    SIZE: See generated data
    CREATED BY: UIM
    POINTED TO BY: N/A
    SERIALIZATION: None
    FUNCTION: Maps the Device Information Lookup Parameter List
    MODULE TYPE: PLAS MACRO
    DEPENDENCIES: None
    RESTRICTIONS: For HCD and UIM use only
    PROCESSOR: PLAS Compiler
    INVOCATION :
           PLAS %DCL DEVLDEF CHAR
                %DEVLDEF='value'
                    value = 'BDY(WORD)', 'BASED', or
                            'BASED(xxxxxxxx)'
                %INCLUDE SYSLIB(CBDZDEVL)
                If DEVLDEF is not declared and initialized, the
                default is 'BDY(WORD)'
           ASSEMBLER - CBDZDEVL
    CHANGE ACTIVITY:
    $L0=HCD ,HCSH101,900425,BOEB: Hardware Configuration Dialog
    $P1=HCD ,HCSH301,921124,BOEB: VM Device Support
     END OF SPECIFICATIONS
%GOTO DEVL01;
             Device Information Look-up Parameter List
                                                                    WS
```

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	SIGNED	4	DEVL(0)	Device Information lookup parameters
0	(0)	CHARACTER	4	DEVLID	DEVL identifier ('DEVL')
4	(4)	ADDRESS	1	DEVLVER	Version number '01'
4	(4)	X'1'	0	DEVLVERN	"1" .. Version number of DEVL
5	(5)	ADDRESS	1	DEVLFUNC	Function to be performed by the Look-Up Routine

Table 401. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
5	(5)	X'1'	0	DEVLSPCU	"1" .. Return device information in the format of an internal text record Return all devices which are grouped together via the same PCU value.
5	(5)	X'2'	0	DEVLSCU	"2" .. Return device information in the format of an internal text record Return all devices which are attached to the same control unit
5	(5)	X'3'	0	DEVLCU	"3" .. Return control unit information, such as type & model of the control unit identified by DEVLQCU
5	(5)	X'4'	0	DEVLDEV	"4" .. Return OS device information, identified by DEVLDPTR
6	(6)	BITSTRING	2		Reserved, must be zero
8	(8)	ADDRESS	2	DEVLDLEN	Length of data area used to contain the IODV on return
10	(A)	ADDRESS	2		Reserved
12	(C)	ADDRESS	4	DEVLDPTR	Address of data area containing the internal text record, representing the device
16	(10)	ADDRESS	4	DEVLRETC	Return code
The following fields define the qualifiers. The allow the calling routine to narrow the device records being accessed					
20	(14)	ADDRESS	2	DEVLQPCU	PCU number
22	(16)	ADDRESS	2	DEVLQCU	Control unit number
24	(18)	ADDRESS	2	DEVLADDR	Device address
26	(1A)	BITSTRING	18		Reserved
The following fields define the control unit information returned by the device look-up routine.					
44	(2C)	CHARACTER	32	DEVLINFO(0)	Control unit information
44	(2C)	CHARACTER	8	DEVLCTYP	Control unit type
52	(34)	CHARACTER	4	DEVLCMOD	Control unit model
56	(38)	BITSTRING	20		Reserved
The following workarea is only used by the Look-up Routine					
76	(4C)	BITSTRING	32	DEVLWORK	DEVL Workarea
76	(4C)	X'6C'	0	DEVLLENG	"*-DEVL" Length of parameter list
108	(6C)	CHARACTER	4	DEVLIDNM	Constant for DEVL control block id

Table 402. Cross Reference for CBDZDEVL

Name	Offset	Hex Tag
DEVL	0	
DEVLADDR	18	
DEVLCMOD	34	
DEVLCTYP	2C	

Table 402. Cross Reference for CBDZDEVL (continued)

Name	Offset	Hex Tag
DEVLCU	5	3
DEVLDEV	5	4
DEVLDLEN	8	
DEVLDPTR	C	
DEVLFUNC	5	
DEVLID	0	C4C5E5D3
DEVLIDNM	6C	C4C5E5D3
DEVLINFO	2C	
DEVLLENG	4C	6C
DEVLQCU	16	
DEVLQPCU	14	
DEVLRETC	10	
DEVLSCU	5	2
DEVLSPCU	5	1
DEVLVER	4	
DEVLVERN	4	1
DEVLWORK	4C	0

Chapter 83. CBDZDFP Information

CBDZDFP Programming Interface Information

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

- DFPIOSUS

CBDZDFP Heading Information

Common Name:	Device Features Parameters
Macro ID:	CBDZDFP
DSECT Name:	DFP
Owning Component:	Hardware Configuration Definition (SC1XL)
Eye-Catcher ID:	DFP Offset: 0 Length: 4
Storage Attributes:	Main Storage: Obtained by UIM Data Space: SUBPOOL AND KEY: Residency: Determined by caller
Size:	See generated data
Created by:	UIM
Pointed to by:	N/A
Serialization:	None
Function:	Maps the Device Features Parameters

CBDZDFP mapping

Table 403. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

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Table 403. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
%DFP00: ;
     START OF SPECIFICATIONS
    ACRONYM: CBDZDFP
    EXTERNAL CLASSIFICATION:
    PSPI: BASE
    DMTI: FIELDS DFPIOSUS
    END OF EXTERNAL CLASSIFICATION:
    MACRO NAME: CBDZDFP
    DSECT NAME: DFP
    DESCRIPTIVE NAME: Device Features Parameters
    PROPRIETARY STATEMENT:
       LICENSED MATERIALS - PROPERTY OF IBM
       THIS MACRO IS "RESTRICTED MATERIALS OF IBM"
       5647-A01 COPYRIGHT IBM CORP. 1990, 2007
    STATUS: HCS7740
    COMPONENT: Hardware Configuration Definition (SC1XL)
    EYE-CATCHER: DFP
      OFFSET: 0
      LENGTH: 4
    STORAGE ATTRIBUTES:
      MAIN STORAGE: Obtained by UIM
      VIRTUAL STORAGE:
      AUXILIARY STORAGE:
      DATA SPACE:
      SUBPOOL AND KEY:
      SUBPOOL:
      KEY:
      RESIDENCY: Determined by caller
    SIZE: See generated data
    CREATED BY: UIM
    POINTED TO BY: N/A
    SERIALIZATION: None
    FUNCTION: Maps the Device Features Parameters
    MODULE TYPE: Bilingual MACRO
    DEPENDENCIES: None
    RESTRICTIONS: For HCD and UIM use only
    PROCESSOR: PLAS Compiler or Assembler-H
    INVOCATION:
           PLAS:
                 %DCL DFPDEF CHAR
                 %DFPDEF='value'
                     value = 'BDY(WORD)', 'BASED' or
                             'BASED(xxxxxxxx)'
                 %INCLUDE SYSLIB(CBDZDFP)
                 If DFPDEF is not declared and initialized, the
                 default is 'BDY(WORD)'.
           ASSEMBLER:
                 CBDZDFP RELOC=0
                         RELOC (number of addresses to be
                         relocated) defaults to zero. Set to the
                         number of addresses to be relocated if
                         required .
    CHANGE ACTIVITY:
    $L0=HCD, HCSH101,900425,BOEB: Hardware Configuration Dialog
    $M1=HCD, HCSH201,900918,BOEB: Qualify improvements
    $N6=UCBVSCR, HCSH521,931020,BOEB: UCB VSCR
    $H4=OSA, HCSH501,940210 BOEB: Open Systems Adapter Support
    $M3=HCD, HCSH501,940218,BOEB: DFPSELFD included
    $M4=OW18776, HCSH521,960224,BBEI: DFPNOESO included
```

Table 403. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		$H1=SHARK, HCS6051,971020,BKRE: SHARK Support $H2=64BIT, HCS6051,981215,BBEI: 64 Bit Addressing Support $H3=MMOUTH, HCS7708,031127,BBEI: Megamouth Support $L2=SCHS, HCS7720,031127,BBEI: Multiple Subchannel Sets $H5=FCX, HCS7740,060222,BBEI: Fibre-Channel Extensions (FCX) facility END OF SPECIFICATIONS %GOTO DFP01;			
0	(0)	SIGNED	4	(0)	Device Features Parameters.
0	(0)	CHARACTER	4	DFPID	DFP identifier
4	(4)	BITSTRING	1	DFPVER	DFP version number
		1		DFPVERN	"X'01'" .. Version number X'01'
5	(5)	BITSTRING	3		Reserved
8	(8)	CHARACTER	8	DFPNAME	Generic name
16	(10)	SIGNED	4	DFPDNBR	Binary device number used to set the UCBNAME field
20	(14)	SIGNED	4	DFPCHAN	Binary device number used to fill in UCBCHAN field for a multiple exposure device
24	(18)	ADDRESS	4	DFPDDSP	Address of UCB device dependent segment information
28	(1C)	SIGNED	4	DFPDDSL	Length of UCB device dependent segment information
32	(20)	ADDRESS	4	DFPDDEP	Address of UCB device dependent extension information
36	(24)	SIGNED	4	DFPDDEL	Length of UCB device dependent extension information
40	(28)	ADDRESS	4	DFPDCEP(0)	Address of UCB device class extension information
40	(28)	SIGNED	4	DFPDCEN	Device number for the UCB whose device class extension this UCB should point to (valid when DFPMXDCE is set)
44	(2C)	SIGNED	4	DFPDCEL	Length of UCB device class extension information
48	(30)	SIGNED	4	DFPUCBTY(0)	UCB device type information
48	(30)	BITSTRING	1	DFPTBYT1	Model bits
49	(31)	BITSTRING	1	DFPTBYT2	Option flags
		1...		DFP2OPT0	"X'80'" Flag 0
		.1..		DFP2OPT1	"X'40'" Flag 1
		..1.		DFP2OPT2	"X'20'" Flag 2
		..1.		DFPDUDN1	"X'20'" Value used to fill in UCBDUDN1 field
		..1.		DFPRR	"X'20'" Value used to fill in UCBRR field
		...1		DFP2OPT3	"X'10'" Flag 3
		...1		DFPDUDN2	"X'10'" Value used to fill in UCBDUDN2 field
		.... 1...		DFP2OPT4	"X'08'" Flag 4
		.... .1..		DFP2OPT5	"X'04'" Flag 5
		.... ..1.		DFP2OPT6	"X'02'" Flag 6
		1		DFP2OPT7	"X'01'" Flag 7
		1		DFPDVPWR	"X'01'" Value used to fill in UCBDVPWR field

Table 403. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
50	(32)	BITSTRING	1	DFPTBYT3	Class bits
51	(33)	BITSTRING	1	DFPTBYT4	Device code
52	(34)	BITSTRING	1	DFPETI	A binary number used to fill in UCBETI field (this field is used by the exit effector routine to complete the 8-byte name of an IBM-supplied error routine for this device)
53	(35)	BITSTRING	1	DFPFL5	Value used to fill in UCBFL5 field
		1...		DFPDCC	"X'80'" Disconnect command chain device
		...1		DFPVSDR	"X'10'" Device has variable length SDRs
		.... 1...		DFPENVRD	"X'08'" Device returns environmental data
		.... .1..		DFPNALOC	"X'04'" Last path to device must not be varied offline
		.... ..1.		DFPALTCU	"X'02'" Device has alternate control unit
54	(36)	BITSTRING	1	DFPFL6	Value used to fill in UCBFL6 field (this field is device dependent)
		1...		DFPASUN	"X'80'" Assign/unassign commands supported
		.1..		DFPMDISP	"X'40'" Device has message display
		..1.		DFPDBUF	"X'20'" Data is buffered prior to storing on permanent media
		...1		DFPIDS	"X'10'" Block ID
		.... 1...		DFPSELFD	"X'08'" Device supports self description
		.... .1..		DFPSMSMM	"X'04'" SMS Managed Mountable
		1		DFPIOT	"X'01'" Flag indicating that the I/O timing functions are supported for this device
55	(37)	BITSTRING	1	DFPFLP1	Value used to fill in UCBFLP1 field
		.1..		DFPSHRUP	"X'40'" Device is sharable when in UP mode
		..1.		DFPRERP	"X'20'" Resident ERP routine
		.... 1...		DFPSWAPF	"X'08'" Device can be swapped by DDR
		.... .1..		DFPERLOG	"X'04'" Error log present in this device
		.... ..1.		DFPDYNPH	"X'02'" Dynamic pathing availability is an optional feature for this device
		1		DFPRALOC	"X'01'" Device cannot be allocated
56	(38)	BITSTRING	1	DFPATI	Attention table index, used to fill in UCBATI field

Table 403. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
57	(39)	BITSTRING	1	DFPSNSCT	Number of sense bytes to be read from this device, this value is used to fill in UCBSNSCT field
58	(3A)	BITSTRING	1	DFPFLAG1	DFP flag field
		1...		DFPPRES	"X'80'" Device is physically non-removable, used to fill in UCBPRES field
		.1..		DFPMTPXP	"X'40'" Device has multiple exposures
		..1.		DFPMIHPB	"X'20'" MIH processing should be bypassed
		...1		DFPOFFLN	"X'10'" Device should be offline when the operating system is IPLed
		.... ..1.		DFPEIDAW	"X'02'" If set, indicates that device supports the 64-bit IDAW format.
		1		DFP2IDAW	"X'01'" If set, indicates that device supports 2K 64-bit IDAW format.
59	(3B)	BITSTRING	1	DFPFLAG2	DFP flag field
		1...		DFPMXDCE	"X'80'" The UCB corresponding to this DFP should point to the device class extension for the UCB for device number DFPDCEN
		.1..		DFPNOEDT	"X'40'" This device number should not be represented in the EDT
		..1.		DFPNOESO	"X'20'" This device number should not be included in any system-generated esoteric when building the EDT.
		...1		DFPPAVB	"X'10'" Indicates device is a PAV-base device. If set, DFPMTPXP is also set
		.... 1...		DFPPAVA	"X'08'" Indicates device is a PAV-alias device. If set, DFPMTPXP is also set
		.... .1..		DFPDE31	"X'04'" If on, indicates that device support code supports 31 bit storage.
		.... ..1.		DFPMIDAW	"X'02'" If on, indicates that device support code supports MIDAWs.
		1		DFPFCX	"X'01'" If on, indicates that device supports the Fibre-Channel Extensions (FCX) facility
60	(3C)	BITSTRING	1	DFPDSTCT	Number of 10 byte statistics table entries to be used by the ERP for this device
61	(3D)	CHARACTER	1		Reserved, must be zero
62	(3E)	BITSTRING	1		Reserved, must be zero

Table 403. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
63	(3F)	BITSTRING	1	DFPDCES	Subchannel set ID of device number in DFPDCEN for the UCB whose DCE this UCB should point to (valid when DFPMXDCE is set)
64	(40)	ADDRESS	4	DFPRELP	Pointer to array containing UCB relocation information
68	(44)	SIGNED	4	DFPRELCT	Number of entries in array of UCB relocation information
72	(48)	CHARACTER	4	DFPDFLTM	Default model number
76	(4C)	CHARACTER	4	DFPIOSUS	For IOS use
80	(50)	CHARACTER	20		Reserved, must be zero
80	(50)	X'64'	0	DFPEND	"*" End of DFP.
0	(0)	CHARACTER	100	DFP	Device Features Parameters.
100	(64)	CHARACTER	4	DFPCBID	Constant for DFPCBID.
The following maps the array of UCB relocation information. If n greater than zero arrays are required, you must code RELOC=n on the macro statement.					
104	(68)	CHARACTER	12	DFPRELAR(0)	Array of UCB relocation information
104	(68)	BITSTRING	1	DFPPSEG	UCB segment type where the ACON is located
105	(69)	BITSTRING	1	DFPPALEN	ACON length if not specified, default = 4
106	(6A)	SIGNED	2	DFPPOFF	Offset into segment where the ACON is located
108	(6C)	BITSTRING	1	DFPRSEG	UCB segment type where the ACON points
109	(6D)	CHARACTER	2		Reserved, must be zero
111	(6F)	BITSTRING	1	DFPRSSID	Subchannel set ID of device number in field DFPRDNBR of the UCB where the ACON points
112	(70)	SIGNED	4	DFPRDNBR	Device number of the UCB where the ACON points
104	(68)	X'68'	0	DFPREND	"*" End of DFPRELAR
104	(68)	X'0'	0	DFPRLEN	"DFPREND-DFPRELAR" Total length of DFPRELAR array.
The following constants are used to fill in the DFPPSEG and DFPRSEG fields. Note - DFPCMSEG and DFPPREFX can only be used to fill in the DFPRSEG field.					
	1			DFPDDSEG	"X'01'" .. Device dependent segment
	.... ..1.			DFPDDEXT	"X'02'" .. Device dependent extension
	11			DFPDCEXT	"X'03'" .. Device class extension
	.... .1..			DFPCMSEG	"X'04'" .. Common segment
	.... .1.1			DFPPREFX	"X'05'" .. Prefix

Table 404. Cross Reference for CBDZDFP

Name	Offset	Hex Tag
DFP	0	

Table 404. Cross Reference for CBDZDFP (continued)

Name	Offset	Hex Tag
DFPALTCU	35	2
DFPASUN	36	80
DFPATI	38	
DFPCBID	64	C4C6D740
DFPCHAN	14	
DFPCMSEG	68	4
DFPDBUF	36	20
DFPDCC	35	80
DFPDCEL	2C	
DFPDCEN	28	
DFPDCEP	28	
DFPDCES	3F	
DFPDCEXT	68	3
DFPDDEL	24	
DFPDDEP	20	
DFPDDEXT	68	2
DFPDDSEG	68	1
DFPDDSL	1C	
DFPDDSP	18	
DFPDE31	3B	4
DFPDFLTM	48	
DFPDNBR	10	
DFPDSTCT	3C	
DFPDUDN1	31	20
DFPDUDN2	31	10
DFPDVPWR	31	1
DFPDYNPH	37	2
DFPEIDAW	3A	2
DFPEND	50	64
DFPENVRD	35	8
DFPERLOG	37	4
DFPETI	34	
DFPFCX	3B	1
DFPFLAG1	3A	
DFPFLAG2	3B	
DFPFLP1	37	
DFPFL5	35	
DFPFL6	36	
DFPID	0	
DFPIDS	36	10
DFPIOSUS	4C	
DFPIOT	36	1
DFPMDISP	36	40
DFPMIDAW	3B	2
DFPMIHPB	3A	20
DFPMTPXP	3A	40
DFPMXDCE	3B	80
DFPNALOC	35	4
DFPNAME	8	

Table 404. Cross Reference for CBDZDFP (continued)

Name	Offset	Hex Tag
DFPNOEDT	3B	40
DFPNOESO	3B	20
DFPOFFLN	3A	10
DFPPALEN	69	
DFPPAVA	3B	8
DFPPAVB	3B	10
DFPPOFF	6A	
DFPPREFX	68	5
DFPPRES	3A	80
DFPPSEG	68	
DFPRALOC	37	1
DFPRDNBR	70	
DFPRELAR	68	
DFPRELCT	44	
DFPRELP	40	
DFPREND	68	68
DFPRERP	37	20
DFPRLEN	68	0
DFPRR	31	20
DFPRSEG	6C	
DFPRSSID	6F	
DFPSELFD	36	8
DFPSHRUP	37	40
DFPSMSMM	36	4
DFPSNSCT	39	
DFPSWAPF	37	8
DFPTBYT1	30	
DFPTBYT2	31	
DFPTBYT3	32	
DFPTBYT4	33	
DFPUCBTY	30	
DFPVER	4	
DFPVERN	4	1
DFPVSDR	35	10
DFP2IDAW	3A	1
DFP2OPT0	31	80
DFP2OPT1	31	40
DFP2OPT2	31	20
DFP2OPT3	31	10
DFP2OPT4	31	8
DFP2OPT5	31	4
DFP2OPT6	31	2
DFP2OPT7	31	1

Chapter 84. CBDZGETM Information

CBDZGETM Programming Interface Information

CBDZGETM is a programming interface.

CBDZGETM Heading Information

Common Name:	HCD Getmain Storage Routine Parameter List
Macro ID:	CBDZGETM
DSECT Name:	GETM
Owning Component:	Hardware Configuration Definition (SC1XL)
Eye-Catcher ID:	GETM Offset: 0 Length: 4
Storage Attributes:	Main Storage: Obtained by caller Data Space: SUBPOOL AND KEY: Residency: Determined by caller
Size:	24 bytes
Created by:	UIM and other HCD routines
Pointed to by:	N/A
Serialization:	None
Function:	Maps the GETMAIN Parameters for Hardware Configuration Definition (HCD) routines and UIMs requesting storage. This storage is zeroed by the service routine which does the getmain.

CBDZGETM mapping

Table 405. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

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Table 405. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
%GETM00: ;
     START OF SPECIFICATIONS
    ACRONYM: CBDZGETM
    EXTERNAL CLASSIFICATION: PSPI
    END OF EXTERNAL CLASSIFICATION
    MACRO NAME: CBDZGETM
    DSECT NAME: GETM
    DESCRIPTIVE NAME: HCD Getmain Storage Routine Parameter List
    PROPRIETARY STATEMENT:
       LICENSED MATERIALS - PROPERTY OF IBM
       THIS MACRO IS "RESTRICTED MATERIALS OF IBM"
       5694-A01 (C) COPYRIGHT IBM CORP. 1990, 2004
    STATUS: HCS7708
    COMPONENT: Hardware Configuration Definition (SC1XL)
    EYE-CATCHER: GETM
      OFFSET: 0
      LENGTH: 4
    STORAGE ATTRIBUTES:
      MAIN STORAGE: Obtained by caller
      VIRTUAL STORAGE:
      AUXILIARY STORAGE:
      DATA SPACE:
      SUBPOOL AND KEY:
      SUBPOOL:
      KEY:
      RESIDENCY: Determined by caller
    SIZE: 24 bytes
    CREATED BY: UIM and other HCD routines
    POINTED TO BY: N/A
    SERIALIZATION: None
    FUNCTION: Maps the GETMAIN Parameters for Hardware
              Configuration Definition (HCD) routines and UIMs
              requesting storage. This storage is
              zeroed by the service routine which
              does the getmain.
    MODULE TYPE: Bilingual MACRO
    DEPENDENCIES: None
    RESTRICTIONS: For HCD and UIM use only
    PROCESSOR: PLX Compiler or Assembler/H
    INVOCATION:
      PLX:
            %DCL GETMDEF CHAR
            %GETMDEF='value'
                value = 'BDY(WORD)', 'BASED' or
                        'BASED(xxxxxxxx)'
            %INCLUDE SYSLIB(CBDZGETM)
            If GETMDEF is not declared and initialized, the
            default is 'BDY(WORD)'
      ASSEMBLER: CBDZGETM
    CHANGE ACTIVITY:
      $L0= HCD, HCSH101 900420 BOEB: Hardware Configuration Dialog
      $L8= HCD, HCSH103 910613 BOEB: HOM message support
      $LZ= HCD, HCS6051 970318 BBEI: IODF in data space
                 Note: ====> please make sure <====
                       The new fields defined to the GETM parameter
                       list in order to support data spaces
```

Table 405. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		have been appended at the end of the control block. Since the GETM parameter list is an externally used control block (used by IPL) it must be ensured, that the new field definitions in the control block are accessed only, when explicitely the data space support is requested, i.e. the GETMFDSP flag is ON. Otherwise, when this version of the control block is used under a down-level MVS version - e.g. HCD V53 under MVS 4.3 - the storage of the caller pointed to by the new fields is undetermined, and thus the result would be unpredictable.			
		$01= OA07997,HCS7708 040621 BBEI: Correct continuation lines			
		$LA= QUAL, HCS7750 080228 BBEI: Trace acquired storage			
		END OF SPECIFICATIONS			
		%GOTO GETM01;			
		GETM Parameter List			
					WS
0	(0)	SIGNED	4	GETM(0)	Getmain parameters list.
0	(0)	CHARACTER	4	GETMSD	Getmain parameters ID.
4	(4)	BITSTRING	1	GETMFLG	Flag byte.
		1...		GETMFBLW	"X'80'" .. Storage below the 16-megabyte line is requested.
		.1..		GETMFPG	"X'40'" .. Boundary=Page requested
		..1.		GETMFMSG	"X'20'" .. Message request on error
		...1		GETMFCON	"X'10'" .. Conditional request specified
		.... 1...		GETMFTRC	"X'08'" .. Trace request specified
		1		GETMFDSP	"X'01'" .. Data Space is to be created
5	(5)	BITSTRING	1	GETMSPN	Subpool number (contains binary zero if not specified)
6	(6)	BITSTRING	1		Reserved and must be zero.
7	(7)	BITSTRING	1		Reserved and must be zero.
8	(8)	SIGNED	4	GETMLNTH	Length of storage requested.
12	(C)	SIGNED	4	GETMADDR	Address of getmained storage returned here.
16	(10)	SIGNED	4	GETMREAS	Reason code
20	(14)	SIGNED	4	GETMRETC	Return code
24	(18)	SIGNED	4	GETMBLKS	Number of blocks for data space
28	(1C)	CHARACTER	8	GETMSTOK	Data space token
36	(24)	SIGNED	4	GETMALET	Data space ALET
40	(28)	CHARACTER	12		Reserved and must be zero
40	(28)	X'34'	0	GETMLN	"*-GETM" Length of parameter list
52	(34)	CHARACTER	4	GETMSDNM	Constant for GETMSD.

Table 406. Cross Reference for CBDZGETM

Name	Offset	Hex Tag
GETM	0	

Table 406. Cross Reference for CBDZGETM (continued)

Name	Offset	Hex Tag
GETMADDR	C	
GETMALET	24	
GETMBLKS	18	
GETMFBLW	4	80
GETMFCON	4	10
GETMFDSP	4	1
GETMFLG	4	
GETMFMSG	4	20
GETMFPG	4	40
GETMFTRC	4	8
GETMLN	28	34
GETMLNTH	8	
GETMREAS	10	
GETMRETC	14	
GETMSD	0	
GETMSDNM	34	C7C5E3D4
GETMSPN	5	
GETMSTOK	1C	

Chapter 85. CBDZGIP Information

CBDZGIP Programming Interface Information

CBDZGIP is a programming interface.

CBDZGIP Heading Information

Common Name:	Generic Information Parameters (GIP)
Macro ID:	CBDZGIP
DSECT Name:	GIP
Owning Component:	Hardware Configuration Definition (SC1XL)
Eye-Catcher ID:	GIP Offset: 0 Length: 4
Storage Attributes:	Main Storage: Obtained by caller Data Space: SUBPOOL AND KEY: Residency: Determined by caller
Size:	See generated data
Created by:	UIM
Pointed to by:	N/A
Serialization:	None
Function:	This macro maps the input parameters to CBDMBGIT. It is built by the Unit Information Module and contains device dependent information which is used to build the Generic Information Table (GIT). GIPAFFIX is an index that relates compatible devices, when UNIT=AFF is specified via JCL. IBM has defined the following affinity indexes: '0000'X - No special affinity considerations (default) '0001'X - Affinity to 3330 device types '0002'X - Affinity to 3330-1 device types '0004'X - Affinity to 3340 device types '0008'X - Affinity to 3480, 3400-9 device types '0010'X - Affinity to 3400-6,3400-5 device types '0020'X - Affinity to 3400-4,2400-4,2400 device types '0030'X - Affinity to 3400-3,2400-3 device types '0040'X - Affinity to 3400-2, 2400-2, 2400-1 dev types '0080'X - Affinity to 3490 device types '0108'X - Affinity to 3480X device types '0400'X - IBM affinity '0800'X \ Reserved for IBM use '1000'X / '2000'X \ '4000'X | Reserved for customer use '8000'X / 'FFFF'X - No special affinity considerations (specified)

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CBDZGIP mapping

Table 407. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

```
%GIP00: ;
     START OF SPECIFICATIONS
    ACRONYM: CBDZGIP
    EXTERNAL CLASSIFICATION: PSPI
    END OF EXTERNAL CLASSIFICATION
    MACRO NAME: CBDZGIP
    DSECT NAME: GIP
    DESCRIPTIVE NAME: Generic Information Parameters (GIP)
    PROPRIETARY STATEMENT:
       LICENSED MATERIALS - PROPERTY OF IBM
       THIS MACRO IS "RESTRICTED MATERIALS OF IBM"
       5647-A01 (C) COPYRIGHT IBM CORP. 1990, 2000
    STATUS = HCS6091
    COMPONENT: Hardware Configuration Definition (SC1XL)
    EYE-CATCHER: GIP
      OFFSET: 0
      LENGTH: 4
    STORAGE ATTRIBUTES:
      MAIN STORAGE: Obtained by caller
      VIRTUAL STORAGE:
      AUXILIARY STORAGE:
      DATA SPACE:
      SUBPOOL AND KEY:
      SUBPOOL:
      KEY:
      RESIDENCY: Determined by caller
    SIZE: See generated data
    CREATED BY: UIM
    POINTED TO BY: N/A
    SERIALIZATION: None
    FUNCTION: This macro maps the input parameters to CBDMBGIT.
       It is built by the Unit Information Module and contains
       device dependent information which is used to build the
       Generic Information Table (GIT).
       GIPAFFIX is an index that relates compatible devices,
       when UNIT=AFF is specified via JCL.
       IBM has defined the following affinity indexes:
        '0000'X - No special affinity considerations (default)
        '0001'X - Affinity to 3330 device types
        '0002'X - Affinity to 3330-1 device types
        '0004'X - Affinity to 3340 device types
        '0008'X - Affinity to 3480, 3400-9 device types
        '0010'X - Affinity to 3400-6,3400-5 device types
        '0020'X - Affinity to 3400-4,2400-4,2400 device types
        '0030'X - Affinity to 3400-3,2400-3 device types
        '0040'X - Affinity to 3400-2, 2400-2, 2400-1 dev types
        '0080'X - Affinity to 3490 device types
        '0108'X - Affinity to 3480X device types
        '0400'X - IBM affinity
```

Table 407. Structure (continued)

```
  Offset    Offset
     Dec       Hex Type                 Len  Name(Dim)                 Description
-------------------------------------------------------------------------------
         '0800'X \ Reserved for IBM use
         '1000'X /
         '2000'X \
         '4000'X | Reserved for customer use
         '8000'X /
         'FFFF'X - No special affinity considerations (specified)
     MODULE TYPE: BILINGUAL MACRO
     DEPENDENCIES: None
     RESTRICTIONS: For HCD and UIM use only
     INVOCATION:
           PLAS: %DCL GIPDEF CHAR
                 %GIPDEF='value'
                     value = 'BDY(WORD)', 'BASED' or
                             'BASED(xxxxxxxx)'
                 %INCLUDE SYSLIB(CBDZGIP)
                 If GIPDEF is not declared and
                 initialized, the default is 'BDY(WORD)'
      ASSEMBLER: CBDZGIP DENS=0,GENDNMS=0
                         DENS (number of densities) parameter
                         defaults to zero. Set to number of
                         densities if required.
                         GENDNMS (number of compatible generic
                         device names) defaults to zero. Set to
                         the number of compatible generic device
                         names if required.
     CHANGE ACTIVITY:
       $L0= HCD, HCSH101 900420 BOEB: Hardware Configuration Dialog
       $L1= HCD, HCSH521 941123 BOEB: IBM affinity
       $01= OW12423,HCSH521 950504 BBWA: Fix of affinity for 3480X
      END OF SPECIFICATIONS
 %GOTO GIP01;
      Generic Information Parameters (GIP)
-------------------------------------------------------------------------------
       0       (0) SIGNED               4   (0)                   Generic Information Parameters.
       0       (0) CHARACTER            4   GIPID                 GIP identifier ('GIP ')
       4       (4) CHARACTER            1   GIPVER                GIP version number x'01'
       5       (5) CHARACTER            3                         Reserved
       8       (8) CHARACTER            8   GIPNAME               Generic device name
      16      (10) SIGNED               4   GIPUCBTY              UCB device type information for
                                                                  allocation
      20      (14) SIGNED               4   GIPGPTPR              Generic Preference Table
                                                                  priority
      24      (18) ADDRESS              4   GIPCDVLP              Pointer to the list of generic
                                                                  names of compatible devices
                                                                  (zero if there is no list)
      28      (1C) SIGNED               4   GIPCDVLC              Count of the generic names in
                                                                  the compatible device list
      32      (20) ADDRESS              4   GIPDENPR              Pointer to the list of densities
                                                                  supported by this device
      36      (24) SIGNED               4   GIPDENNO              Count of densities supported
      40      (28) CHARACTER            2   GIPAFFIX              Affinity index, 0 if none
      42      (2A) CHARACTER           38                         Reserved, must be zero
      42      (2A) X'50'                0   GIPEND                "*" GIP End
       0       (0) CHARACTER            1   GIP                   Generic Information Parameters.
     The following constants are used to place an identifier and
     version number into the GIP.
-------------------------------------------------------------------------------
                     ....  ...1             GIPVERN               "X'01'" GIP version number
```

Table 407. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
80	(50)	CHARACTER	4	GIPIDNM	Constant for GIPID.
The following constants are used to place an affinity index in the GIPAFFIX field.					
80	(50)	BITSTRING	0	GIPNOAFF	"X'FFFF'" No affinity consideration
		1		GIPAFF1	"X'0001'" Affinity to 3330
		.... ..1.		GIPAFF2	"X'0002'" Affinity to 3330-1
		.... .1..		GIPAFF3	"X'0004'" Affinity to 3340
		.... 1...		GIPAFF4	"X'0008'" Affinity to 3480, 3400-9
		...1		GIPAFF5	"X'0010'" Affinity to 3400-6, 3400-5
		..1.		GIPAFF6	"X'0020'" Affinity to 3400-4, 2400-4 2400
		..11		GIPAFF7	"X'0030'" Affinity to 3400-3, 2400-3
		.1..		GIPAFF8	"X'0040'" Affinity to 3400-2, 2400-2, 2400-1
		1...		GIPAFF9	"X'0080'" Affinity to 3490
80	(50)	BITSTRING	0	GIPAFF10	"X'0108'" Affinity to 3480X
80	(50)	BITSTRING	0	GIPAFF11	"X'0400'" IBM affinity
80	(50)	BITSTRING	0	GIPUSRA1	"X'2000'" User-defined affinity 1
80	(50)	BITSTRING	0	GIPUSRA2	"X'4000'" User-defined affinity 2
80	(50)	BITSTRING	0	GIPUSRA3	"X'8000'" User-defined affinity 3
The following array maps the list of compatible generic device types. If a list of compatible generic device name(s) are required, you must code GENDNMS=n on the macro statement where 'n' is the number of names.					
84	(54)	CHARACTER	1	(0)	Compatible generic device name list
84	(54)	CHARACTER	8	GIPCMPNM(0)	Compatible generic device name
84	(54)	X'54'	0	GIPCEND	"*" End of GIPCMPNM array.
84	(54)	X'0'	0	GIPCMPNL	"0" Compatible generic device name list
The following array maps the list of densities supported by this device. If a list of supported densities are required, you must code DENS=n on the macro statement where 'n' is the number of densities supported.					
84	(54)	BITSTRING	1	(0)	Densities supported list
84	(54)	BITSTRING	1	GIPDENSY(0)	Density or densities.
84	(54)	X'54'	0	GIPDEND	"*" End of GIPDENL array.
84	(54)	X'0'	0	GIPDENL	"0" Densities supported list

Table 408. Cross Reference for CBDZGIP

Name	Offset	Hex Tag
GIP	0	
GIPAFFIX	28	

Table 408. Cross Reference for CBDZGIP (continued)

Name	Offset	Hex Tag
GIPAFF1	50	1
GIPAFF10	50	108
GIPAFF11	50	400
GIPAFF2	50	2
GIPAFF3	50	4
GIPAFF4	50	8
GIPAFF5	50	10
GIPAFF6	50	20
GIPAFF7	50	30
GIPAFF8	50	40
GIPAFF9	50	80
GIPCDVLC	1C	
GIPCDVLP	18	
GIPCEND	54	54
GIPCMPNL	54	0
GIPCMPNM	54	
GIPDEND	54	54
GIPDENL	54	0
GIPDENNO	24	
GIPDENPR	20	
GIPDENSY	54	
GIPEND	2A	50
GIPGPTPR	14	
GIPID	0	
GIPIDNM	50	C7C9D740
GIPNAME	8	
GIPNOAFF	50	FFFF
GIPUCBTY	10	
GIPUSRA1	50	2000
GIPUSRA2	50	4000
GIPUSRA3	50	8000
GIPVER	4	
GIPVERN	0	1

Chapter 86. CBDZHCEX Information

CBDZHCEX Programming Interface Information

CBDZHCEX is a programming interface.

CBDZHCEX Heading Information

Common Name: HCD object management (HOM) constants.
Macro ID: CBDZHCEX
DSECT Name:
Owning Component: Hardware configuration dialog (SC1XL)
Eye-Catcher ID: None
Storage Attributes: Main Storage: Obtained by caller
Residency: Determined by caller
Size:
Created by: Routines using HOM
Pointed to by: N/A
Serialization: None
Function: Contains all constants that are valid within the HOM for
- storage descriptors
- function codes specified in HRB_FUNCTION
- object codes
- attributes specified in HRB_ATTRIBUTE
- request modes for 'get' requests specified in HRB_REQ_MODE
- return codes in HRB_RETURN_CODE
- reason codes in HRB_REASON_CODE
- attributes that have to be specified in data input blocks, e.g. for processor configuration mode, channel path types, ...

Constants for CBDZHCEX

Table 409. Constants for CBDZHCEX

Len	Type	Value	Name	Description
1	CHARACTER	Y	HRB_YES	Indicates YES
1	CHARACTER	N	HRB_NO	Indicates NO
Constant definitions for HOM storage descriptors				
4	CHARACTER	HRB	HRB_SDESC_C	Request block
4	CHARACTER	HSB	HSB_SDESC_C	Status block
4	CHARACTER	HSI	HSICSD	HCD Session Interface Record
4	CHARACTER	IOI	IOICSD	IODF Interface Record
4	CHARACTER	MSI	MSICSD	Message Interface Record
4	CHARACTER	PRI	PRICSD	Processor Interface Record
4	CHARACTER	CPI	CPICSD	Channel Path Interface Record
4	CHARACTER	SWI	SWICSD	Switch Interface Record
4	CHARACTER	CUI	CUICSD	Physical Control Unit Interface Record

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Table 409. Constants for CBDZHCEX (continued)

Len	Type	Value	Name	Description
4	CHARACTER	DVI	DVICSD	Device Interface Record
4	CHARACTER	LTI	LTICSD	Logical Token Interface Record
4	CHARACTER	ASI	ASICSD	Activation Status Interface Record
Constant definitions for HRB_FUNCTION				
4	DECIMAL	1	HRB_SETUP	HCD-Setup request
4	DECIMAL	2	HRB_TERMINATE	HCD-Terminate request
4	DECIMAL	3	HRB_RECOVERY	HCD-Recovery request
4	DECIMAL	5	HRB_OPEN	IODF-Open request
4	DECIMAL	6	HRB_CLOSE	IODF-Close request
4	DECIMAL	9	HRB_IVIEW	IODF-View request
4	DECIMAL	11	HRB_DGET	Data-Get request
4	DECIMAL	12	HRB_MGET	Message-Get request
4	DECIMAL	16	HRB_GET	Get request
4	DECIMAL	42	HRB_ACT_STATUS	Get Activation status
4	DECIMAL	0	HRB_NOO	No object specified
4	DECIMAL	1	HRB_HCD	Object is whole HCD
4	DECIMAL	2	HRB_IODF	Object is whole IODF
4	DECIMAL	3	HRB_DATA	Object is any output-data
4	DECIMAL	4	HRB_MESSAGE	Object is message
4	DECIMAL	5	HRB_PROCESSOR	Object is processor. ID is char.
4	DECIMAL	8	HRB_CHANNEL	Object is channel. ID is fixed.
4	DECIMAL	9	HRB_SWITCH	Object is switch. ID is fixed.
4	DECIMAL	13	HRB_PCU	Object is physical control unit. ID is fixed.
4	DECIMAL	15	HRB_DEVICE	Object is device. ID is fixed.
Constant definitions for attribute-codes				
4	DECIMAL	81	HRB_LTOKEN	Attribute to get logical token
4	DECIMAL	92	HRB_MAXATTR	Maximum allowed attribute in HOM. Used for syntax check. If constants are added or removed this maximum must be updated.
Constant definitions for HRB_REQ_MODE				
4	DECIMAL	1	HRB_MODE_ID	Get objects starting with ID specified. ID of object must be set in HRB_OBJECT. Also HRB_RANGE_VALUE must be set unequal to zero. ID of object must be set in HRB_OBJECT.
4	DECIMAL	2	HRB_MODE_FIRST	Get first object in the defined scope.
4	DECIMAL	3	HRB_MODE_LAST	Get last object in the defined scope.
4	DECIMAL	4	HRB_MODE_ALL	Get all objects in the defined scope.
4	DECIMAL	5	HRB_MODE_CHAIN	Get all objects within the chain defined by the given object, for example all exposure devices.
Constant definitions for HRB_RETURN_CODE				
4	DECIMAL	0	HRB_OK	Request done succesfully.
4	DECIMAL	4	HRB_WARNING	Request done but warning issued.

Table 409. Constants for CBDZHCEX (continued)

Len	Type	Value	Name	Description
4	DECIMAL	8	HRB_ERROR	Request not done. No data provided. Additional message is issued.
4	DECIMAL	12	HRB_SYNTAX	Request not done. Syntax incorrect.
4	DECIMAL	16	HRB_SEVERE	Request not done. Processing was terminated due to severe error. HCD is not active. New Setup required.
Constant definitions for HRB_REASON_CODE				
4	DECIMAL	1	HRB_SPACE	No more space available
4	DECIMAL	2	HRB_VALIDATE	Validation error
4	DECIMAL	3	HRB_EXISTENCE	Existence check error
4	DECIMAL	4	HRB_VERIFY	Verification error
4	DECIMAL	5	HRB_ALRDY_SETUP	Setup rejected. HCD is already active.
4	DECIMAL	6	HRB_NOT_SETUP	Request rejected. HCD is not active.
4	DECIMAL	7	HRB_ABEND	Error occured because of HCD internal logic abend.
4	DECIMAL	8	HRB_AUTH	Error occured because caller is authorized, HOM may be invoked from unauthorized callers only.
4	DECIMAL	16	HRB_NOTFOUND	The mixing of function, object, qualifiers and attributes results into a not allowed request. The request can not be found in the table of valid requests. See the HOM interface description for a correct syntax.
4	DECIMAL	17	HRB_NODINPUT	A data input block is mandatory for this request. Specify one within HRB_HDBI_ADDR and specify a valid length.
4	DECIMAL	18	HRB_NODOUTPUT	A data output block is mandatory for this request. Specify one within HRB_HDBO_ADDR.
4	DECIMAL	19	HRB_NOMODE	The specified mode is not supported for this special request. Refer to HOM interface description.
4	DECIMAL	20	HRB_NOFILTER	Filtering is not supported for this special request. Do not set the filter flag.
4	DECIMAL	21	HRB_WRONGSD	The content of the data input block - identified by the storage descriptors of the contained records - is wrong or not conforming to the request. Initialize the input records correctly.
4	DECIMAL	22	HRB_WRONGFUNC	The function specified is not supported by the HOM. Refer to HOM interface description.

Table 409. Constants for CBDZHCEX (continued)

Len	Type	Value	Name	Description
4	DECIMAL	23	HRB_WRONGOBJ	The object specified is not supported by the HOM. Refer to HOM interface description.
4	DECIMAL	24	HRB_WRONGQUAL	One of the qualifiers specified is not supported by the HOM. Refer to HOM interface description.
4	DECIMAL	25	HRB_WRONGATTR	One of the attributes specified is not supported by the HOM. Refer to HOM interface description.
4	DECIMAL	26	HRB_NOHRB	A request-block is missing for the request.
4	DECIMAL	27	HRB_INITCFAILED	Initchange failed.
4	DECIMAL	28	HRB_FULLY_DEFINED	CTC fully defined
4	DECIMAL	29	HRB_WRONGLGTH	Wrong length
Constant definitions for HRB_IODF_INFO				
4	DECIMAL	1	HRB_INSYNCH	HW and SW of the active IODF are in synch.
4	DECIMAL	2	HRB_NOTINSYNCH	HW and SW are out of sync.
4	DECIMAL	3	HRB_NOTOKEN	No valid HW token exists.
Constant definition for not supported fixed fields				
4	DECIMAL	-1	HRB_NSF	Field is not supported
Constant definition for not supported char fields				
1	CHARACTER		HRB_NSC	Field is not supported
Constant definitions for NLS code				
1	CHARACTER	E	HSIENG	English
1	CHARACTER	J	HSIKAN	Kanji
Constant definitions for IODF type				
1	CHARACTER	P	IOIFPROD	File is compacted version of IODF
1	CHARACTER	W	IOIFWORK	File is working version of IODF
1	CHARACTER	I	IOIFINIT	File is initialized empty IODF file
Constant definitions for IODF access mode				
1	CHARACTER	R	IOIREAD	File is in read mode
1	CHARACTER	U	IOIUPDAT	File is in update mode
Constant definitions for IODF size				
4	DECIMAL	16	IOIBLMIN	Minimum number is 16*4K blocks
4	DECIMAL	1024	IOIBLDEF	Default number is 1024*4K blocks
Constant definitions for message severity				
4	DECIMAL	4	MSISEVI	information message
4	DECIMAL	8	MSISEVW	warning message
4	DECIMAL	12	MSISEVE	error message
4	DECIMAL	16	MSISEVT	termination message
Constant definitions for processor configuration mode				
4	DECIMAL	1	PRICBAS	BASIC mode (early LPAR=NO)

Table 409. Constants for CBDZHCEX (continued)

Len	Type	Value	Name	Description
4	DECIMAL	2	PRICLPAR	LPAR mode (early LPAR=YES)
4	DECIMAL	3	PRICVM	VM (MBASIC) mode
Constant definitions for channel path types				
4	DECIMAL	1	CPITBLMX	Block multiplexor
4	DECIMAL	2	CPITBMX	Byte multiplexor
4	DECIMAL	3	CPITSER	Serial (CNC)
4	DECIMAL	4	CPITCTC	CTC
4	DECIMAL	5	CPITCVC	Escon conversion channel (CVC)
4	DECIMAL	6	CPITIOC	I/O controller (IOC)
4	DECIMAL	7	CPITIRC	Coupling facility - receiver channel
4	DECIMAL	8	CPITISC	Coupling facility - sender channel
4	DECIMAL	9	CPITCBY	Byte pacer channel
4	DECIMAL	10	CPITOSA	OSA channel Use same constants as in CPD-record !!!
4	DECIMAL	11	CPITISD	Falcon ISD
4	DECIMAL	12	CPITDSD	DSD channel
4	DECIMAL	14	CPITFC	FC channel
4	DECIMAL	15	CPITFCV	FCV channel
4	DECIMAL	17	CPITCBR	CBR channel
4	DECIMAL	18	CPITCBS	CBS channel
4	DECIMAL	19	CPITICR	ICR channel
4	DECIMAL	20	CPITICS	ICS channel
4	DECIMAL	21	CPITOSD	OSD channel
4	DECIMAL	22	CPITOSE	OSE channel
4	DECIMAL	23	CPITEIO	EIO channel
4	DECIMAL	24	CPITCFP	CFP channel
4	DECIMAL	25	CPITCBP	CBP channel
4	DECIMAL	26	CPITICP	ICP channel
4	DECIMAL	27	CPITIQD	IQD channel
4	DECIMAL	28	CPITFCP	FCP channel
4	DECIMAL	30	CPITOSC	OSC channel
4	DECIMAL	31	CPITOSN	OSN channel
4	DECIMAL	32	CPITCIB	CIB channel
Constant definitions for channel access mode				
4	DECIMAL	1	CPIADED	Channel is dedicated to one partition
4	DECIMAL	2	CPIAREC	Channel can be reconfigured to authorized partitions
4	DECIMAL	3	CPIASHR	Channel can be shared by authorized partitions
4	DECIMAL	4	CPIASPN	Channel is shared and spanned across Channel Subsystems
Constant definitions for device groups				
4	DECIMAL	1	DVIGDASD	DASD
4	DECIMAL	2	DVIGTAPE	Tape
4	DECIMAL	3	DVIGCLUS	Cluster Controller
4	DECIMAL	4	DVIGCOMM	Communications
4	DECIMAL	5	DVIGMICR	MICR/OCR
4	DECIMAL	6	DVIGGRPH	Graphics

Table 409. Constants for CBDZHCEX (continued)

Len	Type	Value	Name	Description
4	DECIMAL	7	DVIGPRT	Printer
4	DECIMAL	8	DVIGCARD	Card reader/punch
4	DECIMAL	9	DVIGDISP	Display
4	DECIMAL	10	DVIGTPRT	Terminal printer
4	DECIMAL	255	DVIGOTHR	Other

Chapter 87. CBDZHIEX Information

CBDZHIEX Programming Interface Information

CBDZHIEX is a programming interface.

CBDZHIEX Heading Information

Common Name:	HCD object management (HOM) object interface records
Macro ID:	CBDZHIEX
DSECT Name:	ASI, LTI
Owning Component:	Hardware configuration dialog (SC1XL)
Eye-Catcher ID:	ASI and LTI Offset: 0 Length: 4
Storage Attributes:	Main Storage: Obtained by caller Residency: Determined by caller
Size:	ASI - 232 bytes LTI - 60 bytes
Created by:	routines using HOM
Pointed to by:	N/A
Serialization:	None
Function:	Contains further mappings for interface records.

CBDZHIEX mapping

Table 410. Structure LTI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	60	LTI	Basic area definition
0	(0)	CHARACTER	4	LTISD	Storage descriptor
4	(4)	UNSIGNED	4	LTILGTH	Length of area
8	(8)	CHARACTER	32	LTITOKEN	Token, World Wide Unique Value
8	(8)	CHARACTER	8	LTINAME	Character ID of object the token corresponds to
16	(10)	UNSIGNED	4	LTINR	Numerical ID of object
16	(10)	UNSIGNED	2	LTIBASIC	Base part of device ID
18	(12)	UNSIGNED	2	LTISUFFIX	Internal suffix for device ID
20	(14)	CHARACTER	16	LTIWWUV	Token, World Wide Unique Value
20	(14)	CHARACTER	1	*	Token, reserved byte
21	(15)	CHARACTER	2	LTITCPU	Token, CPU address
23	(17)	CHARACTER	3	LTITSER	Token, CPU serial number
26	(1A)	CHARACTER	2	LTITMODL	Token, CPU model number
28	(1C)	CHARACTER	8	LTITTOD	Token, time stamp from TOD clock
36	(24)	CHARACTER	4	*	Reserved
40	(28)	CHARACTER	20	*	Reserved

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CBDZHIEX mapping

Table 411. Structure ASI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	232	ASI	Basic area definition
0	(0)	CHARACTER	4	ASISD	Storage descriptor
4	(4)	UNSIGNED	4	ASILGTH	Length of area
8	(8)	CHARACTER	44	ASIAIODF	Active IODF
52	(34)	CHARACTER	8	ASIAPROC	Active processor
60	(3C)	CHARACTER	8	ASIDPROC	Default processor for target IODF
68	(44)	CHARACTER	8	ASIACFID	Active configuration ID
76	(4C)	CHARACTER	8	ASIDCFID	Default configuration ID for target IODF
84	(54)	CHARACTER	2	ASIAEDT	Active EDT
86	(56)	CHARACTER	2	ASIDEDT	Default EDT for target IODF
88	(58)	CHARACTER	4	*	Reserved
92	(5C)	CHARACTER	140	*	Not externalized

Table 412. Cross Reference for CBDZHIEX

Name	Offset	Hex Tag
ASI	0	
ASIACFID	44	
ASIAEDT	54	
ASIAIODF	8	
ASIAPROC	34	
ASIDCFID	4C	
ASIDEDT	56	
ASIDPROC	3C	
ASILGTH	4	
ASISD	0	
LTI	0	
LTIBASIC	10	
LTILGTH	4	
LTINAME	8	
LTINR	10	
LTISD	0	
LTISUFFIX	12	
LTITCPU	15	
LTITMODL	1A	
LTITOKEN	8	
LTITSER	17	
LTITTOD	1C	
LTIWWUV	14	

Chapter 88. CBDZHOEX Information

CBDZHOEX Programming Interface Information

CBDZHOEX is a programming interface.

CBDZHOEX Heading Information

Common Name:	HCD object management (HOM) object records
Macro ID:	CBDZHOEX
DSECT Name:	CPI, CUI, DVI, HSI, IOI, MSI, PRI, SWI
Owning Component:	Hardware configuration dialog (SC1XL)
Eye-Catcher ID:	CPI, CUI, DVI, HSI, IOI, MSI, PRI, SWI Offset: 0 Length: 4
Storage Attributes:	Main Storage: Obtained by caller Residency: Determined by caller
Size:	CPI - 112 bytes CUI - 124 bytes DVI - 140 bytes HSI - 64 bytes IOI - 720 bytes MSI - 72 bytes PRI - 220 bytes SWI - 100 bytes
Created by:	routines using HOM
Pointed to by:	N/A
Serialization:	None
Function:	Contains mappings for interface records of objects that are processable by HOM. The interface records contain all the attributes that are necessary to define an object or a link between two objects. The interface records must be provided together with every reqeust that needs input data or are given on output for requests which create it. The interface records always contain a storage descriptor at the first position and the length of the data area following the storage descriptor.

CBDZHOEX mapping

Table 413. Structure HSI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	64	HSI	Basic area definition
0	(0)	CHARACTER	4	HSISD	Storage descriptor
4	(4)	UNSIGNED	4	HSILGTH	Length of area
8	(8)	CHARACTER	12	HSIIN	Input area

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Table 413. Structure HSI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	CHARACTER	8	HSIHLQ	High Level Qualifier for setup. Optional field. If omitted HCD tries to identify the HLQ on its own.
16	(10)	CHARACTER	1	HSINLS	NLS code. Constants: HSIENG = English HSIKAN = Kanji
17	(11)	CHARACTER	1	HSILCHK	Reserved for HCM only
18	(12)	CHARACTER	1	HSICAUT	Reserved for HCM only
19	(13)	CHARACTER	1	*	Reserved
20	(14)	CHARACTER	20	HSIOUT	Output area
20	(14)	UNSIGNED	4	HSIOSYS	Identification of operating system HCD is running in. Constants: OSIMVS = MVS OSIVM = VM
24	(18)	UNSIGNED	4	HSIVERS	Identification of HOM/HCD version Constants: HSIAVERS (actual version)
28	(1C)	UNSIGNED	4	HSISUBV	Identification of HOM/HCD subversion Constants: HSIASUBV (actual sub-version)
32	(20)	UNSIGNED	4	HSISUP1	Internal Information Part 1
36	(24)	UNSIGNED	4	HSISUP2	Internal Information Part 2
40	(28)	CHARACTER	24	*	Reserved

Table 414. Structure IOI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	720	IOI	Basic area definition
0	(0)	CHARACTER	4	IOISD	Storage descriptor
4	(4)	UNSIGNED	4	IOILGTH	Length of area
8	(8)	CHARACTER	1	IOIFTYPE	IODF file type. Constants: IOIFPROD = File is compacted version of IODF IOIFWORK = File is working version of IODF IOIFINIT = File is initialized empty IODF file
9	(9)	CHARACTER	1	IOIFMODE	IODF access mode. Constants: IOIREAD = File is in read mode IOIUPDAT = File is in update mode
10	(A)	CHARACTER	10	IOICXDAT	IODF creation date (yyyy-mm-dd)
10	(A)	CHARACTER	2	*	Reserved
12	(C)	CHARACTER	8	IOICDATE	IODF creation date (yy-mm-dd)
20	(14)	CHARACTER	8	IOIUDATE	Date of last update (yy-mm-dd)
28	(1C)	CHARACTER	8	IOIUTIME	Time of last update (hh:mm:ss)
36	(24)	UNSIGNED	4	IOIBLAC	Number of 4K blocks allocated to IODF. Constants: IOIBLMIN = Minimum number is 16*4K blocks IOIBLDEF = Default number is 256*4K blocks
40	(28)	UNSIGNED	4	IOIBLUC	Number of 4K blocks used by IODF

Table 414. Structure IOI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
44	(2C)	CHARACTER	44	IOIBUPDS	Name of backup dataset for work-IODF Full qualified DSN without quotes
88	(58)	CHARACTER	44	IOINAME	IODF name of IODF to use Full qualified DSN without quotes
132	(84)	CHARACTER	8	IOIVOLUM	Volume the IODF is on
140	(8C)	CHARACTER	8	IOIDESC1	IODF Descriptor 1
148	(94)	CHARACTER	8	IOIDESC2	IODF Descriptor 2
156	(9C)	CHARACTER	1	IOIALINF	If yes, activity logging is enabled
157	(9D)	CHARACTER	1	IOICHGLO	If yes, IODF was changed since last open-IODF.
158	(9E)	CHARACTER	1	IOIACT	If yes, specified IODF is currently active IODF.
159	(9F)	CHARACTER	1	IOIVALID	If yes, the WORK IODF is a validated one
160	(A0)	UNSIGNED	4	IOIAREF	Activity log reference number Only valid if IOIALINF is set
164	(A4)	CHARACTER	256	IOITOKEN	IODF Token Area.
164	(A4)	CHARACTER	16	IOIWWUV	Token, World Wide Unique Value
164	(A4)	CHARACTER	1	*	Token, reserved byte
165	(A5)	CHARACTER	2	IOITCPU	Token, CPU address
167	(A7)	CHARACTER	3	IOITSER	Token, CPU serial number
170	(AA)	CHARACTER	2	IOITMODL	Token, CPU model number
172	(AC)	CHARACTER	8	IOITTOD	Token, time stamp from TOD clock
180	(B4)	CHARACTER	16	IOINWWUV	Next Token, World Wide Unique Value
180	(B4)	CHARACTER	1	*	Token, reserved byte
181	(B5)	CHARACTER	2	IOINTCPU	Token, CPU address
183	(B7)	CHARACTER	3	IOINTSER	Token, CPU serial number
186	(BA)	CHARACTER	2	IOINTMODL	Token, CPU model number
188	(BC)	CHARACTER	8	IOINTTOD	Token, time stamp from TOD clock
196	(C4)	CHARACTER	224	*	Reserved
420	(1A4)	CHARACTER	10	IOIUXDAT	Date of last update (yyyy-mm-dd)
430	(1AE)	CHARACTER	18	IOIPTOK	HCM physical token
430	(1AE)	CHARACTER	16	IOIWWUVP	HCM physical token, WW Unique Value
430	(1AE)	CHARACTER	1	*	HCM physical token, reserved byte
431	(1AF)	CHARACTER	2	IOITCPUP	HCM physical token, CPU address
433	(1B1)	CHARACTER	3	IOITSERP	HCM physical token, CPU serial number
436	(1B4)	CHARACTER	2	IOITMODLP	HCM physical token, CPU model number
438	(1B6)	CHARACTER	8	IOITTODP	HCM physical token, TOD clock
446	(1BE)	UNSIGNED	2	IOIPHCNT	HCM physical token, session count
448	(1C0)	CHARACTER	1	IOIFMUA	HRB_Yes if MUA enabled
449	(1C1)	CHARACTER	15	*	Reserved @01C,@LEC
464	(1D0)	CHARACTER	128	IOIIDESC	IODF description
592	(250)	CHARACTER	128	*	Reserved

CBDZHOEX mapping

Table 415. Structure MSI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	MSI	Basic area definition
0	(0)	CHARACTER	72	MSIHEAD	Header definition
0	(0)	CHARACTER	4	MSISD	Storage descriptor
4	(4)	UNSIGNED	4	MSILGTH	Length of area
8	(8)	CHARACTER	8	MSIID	Message identifier
16	(10)	UNSIGNED	4	MSISEV	Severity of message. Constants: MSISEVI = information message MSISEVW = warning message MSISEVE = error message MSISEVT = termination message
20	(14)	CHARACTER	8	MSIFERR	Field of interface record in error
28	(1C)	UNSIGNED	4	MSIMID	WTOR message identifier
32	(20)	CHARACTER	8	MSIRPYID	ID of message reply
40	(28)	CHARACTER	8	MSIHELP	Help panel name
48	(30)	CHARACTER	20	*	Reserved
68	(44)	UNSIGNED	4	MSITEXTL	Length of message text
72	(48)	CHARACTER	*	MSITEXT	Message text

Table 416. Structure PRI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	220	PRI	Basic area definition
0	(0)	CHARACTER	4	PRISD	Storage descriptor
4	(4)	UNSIGNED	4	PRILGTH	Length of area
8	(8)	CHARACTER	24	PRITOKEN	Token, World Wide Unique Value
8	(8)	CHARACTER	8	PRIPRID	Processor name
16	(10)	CHARACTER	16	PRITWWUV	Token, World Wide Unique Value
16	(10)	CHARACTER	1	*	Token, reserved byte
17	(11)	CHARACTER	2	PRITCPU	Token, CPU address
19	(13)	CHARACTER	3	PRITSER	Token, CPU serial number
22	(16)	CHARACTER	2	PRITMODL	Token, CPU model number
24	(18)	CHARACTER	8	PRITTOD	Token, time stamp from TOD clock
32	(20)	UNSIGNED	4	PRICONFM	Processor configuration mode. Constants: PRICBAS = BASIC mode (early LPAR=NO) PRICLPAR = LPAR mode (early LPAR=YES) PRICVM = VM (MBASIC) mode
36	(24)	CHARACTER	8	PRIUNIT	Unit
44	(2C)	CHARACTER	8	PRIMODL	Model
52	(34)	CHARACTER	8	PRIECLVL	Processor EC level
60	(3C)	CHARACTER	32	PRILOC	Location of processor
92	(5C)	CHARACTER	10	PRISER	Serial number of processor
102	(66)	CHARACTER	1	PRIXMP	Indication for HCM if a processor is an XMP processor
103	(67)	CHARACTER	1	*	Reserved
104	(68)	UNSIGNED	4	PRI#GUESC	Count of preferred guests, only if configuration mode is VM.
108	(6C)	CHARACTER	8	PRIRULET	Name of processor rules table
116	(74)	CHARACTER	16	PRISNAAD	SNA address of support element
116	(74)	CHARACTER	8	PRINETWN	Network name
124	(7C)	CHARACTER	8	PRISYSTN	System name

Table 416. Structure PRI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
132	(84)	CHARACTER	8	PRIPNID	New Processor name
140	(8C)	CHARACTER	64	PRISUPPL	Support level
204	(CC)	UNSIGNED	4	PRISYLBL	System Label
208	(D0)	UNSIGNED	4	PRICSC	Count of CSS
212	(D4)	CHARACTER	8	PRILSYSN	local system name

Table 417. Structure CPI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	240	CPI	Basic area definition
0	(0)	CHARACTER	112	CPIOLD	overlay on old CPI structure
0	(0)	CHARACTER	4	CPISD	Storage descriptor
4	(4)	UNSIGNED	4	CPILGTH	Length of area
8	(8)	UNSIGNED	4	CPICPID	Channel path identifier (CHPID)
12	(C)	CHARACTER	8	CPIPRID	Processor name
20	(14)	UNSIGNED	4	CPITYPE	Channel path type. Constants: For possible values, see macro CBDZHCON.
24	(18)	UNSIGNED	4	CPIAMODE	Channel access mode. Constants: CPIADED = Channel is dedicated to one partition CPIASHR = Channel can be shared by authorized partitions CPIAREC = Channel can be reconfigured to authorized partitions
28	(1C)	CHARACTER	1	CPIFSV	If yes, channel path connects to a dynamic switch
29	(1D)	CHARACTER	1	CPIFLOAT	If yes, channel path is floating
30	(1E)	CHARACTER	1	CPIFSPLX	If yes, channel path has sysplex specified
31	(1F)	CHARACTER	1	CPIFPCHD	Indicates, that CPIPCHID is set (if yes)
32	(20)	UNSIGNED	4	CPISWID	Dynamic switch identifier, only valid if CPIFSV is set.
36	(24)	CHARACTER	32	CPILOC	Location information of channel path
68	(44)	UNSIGNED	4	CPICNID	New channel path identifier
72	(48)	UNSIGNED	4	CPICDID	Default channel path ID, taken from PIT. Only set for GET DEFAULT request.
76	(4C)	CHARACTER	1	CPISIDE	Processor side of channel path. Only set for GET DEFAULT request.
77	(4D)	CHARACTER	1	CPIOCC	Indicates, that CHPID is occupied (valid for CFS/CFR not connected to other CHPID
78	(4E)	CHARACTER	1	CPIFAID	Indicates, that CHPID has an HCA id/port set (valid for a CIB CHPID
79	(4F)	CHARACTER	5	*	Reserved
84	(54)	UNSIGNED	4	CPICSRC	count of channel subsystems if the channel is spanned

Table 417. Structure CPI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
88	(58)	UNSIGNED	4	CPIPCHID	PCHID - physical channel path identifier
92	(5C)	CHARACTER	8	CPISPLEX	Sysplex name for floating channel path.
100	(64)	BITSTRING	1	CPIOSPRM	OS parameters
101	(65)	CHARACTER	1	CPICSRAM	Channel Subsystem mask
102	(66)	CHARACTER	1	*	reserved
103	(67)	CHARACTER	1	CPIDISPQ	OSD Multiple CUs: if priority queue is enabled, then HRB_YES is set, HRB_NO otherwise
104	(68)	UNSIGNED	4	CPISMTU	MTU size for IQD
108	(6C)	UNSIGNED	4	CPICSID	Channel Subsystem Id
112	(70)	CHARACTER	128	CPIEXT	CPI extension area
112	(70)	UNSIGNED	4	CPISAID	host communication adapter identifier
116	(74)	UNSIGNED	4	CPISPORT	host communication adapter port number
120	(78)	CHARACTER	120	*	reserved

Table 418. Structure SWI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	100	SWI	Basic area definition
0	(0)	CHARACTER	4	SWISD	Storage descriptor
4	(4)	UNSIGNED	4	SWILGTH	Length of area
8	(8)	UNSIGNED	4	SWISWR	Logical Switch Number
12	(C)	CHARACTER	8	SWIUNIT	Unit
20	(14)	CHARACTER	4	SWIMODL	Model
24	(18)	CHARACTER	32	SWILOC	Location information of switch
56	(38)	CHARACTER	10	SWISER	Switch serial number
66	(42)	CHARACTER	2	*	Reserved
68	(44)	CHARACTER	1	SWICUIDP	If yes, SWICUID is present
69	(45)	CHARACTER	1	SWIDVIDP	If yes, SWIDVID is present
70	(46)	CHARACTER	1	SWISWADS	If yes, SWISWAD is set
71	(47)	CHARACTER	1	*	Reserved
72	(48)	UNSIGNED	4	SWICUID	Switch control unit number only valid if SWICUIDP is set
76	(4C)	UNSIGNED	4	SWIDVID	Switch device number only valid if SWIDVIDP is set
80	(50)	UNSIGNED	4	SWISWAD	switch address
84	(54)	CHARACTER	16	*	Reserved $H5C

Table 419. Structure CUI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	124	CUI	Basic area definition
0	(0)	CHARACTER	4	CUISD	Storage descriptor
4	(4)	UNSIGNED	4	CUILGTH	Length of area
8	(8)	UNSIGNED	4	CUICUID	Physical control unit number
12	(C)	CHARACTER	8	CUIUNIT	Unit
20	(14)	CHARACTER	4	CUIMODL	Model

Table 419. Structure CUI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	CHARACTER	8	CUIGROUP	Control unit group definitions
24	(18)	CHARACTER	1	CUIGDASD	If yes, DASD control unit
25	(19)	CHARACTER	1	CUIGTAPE	If yes, TAPE control unit
26	(1A)	CHARACTER	1	CUIGCLUS	If yes, Cluster controller
27	(1B)	CHARACTER	1	CUIGUNIT	If yes, Unit record device control unit
28	(1C)	CHARACTER	1	CUIGCOMM	If yes, Telecommunication control unit
29	(1D)	CHARACTER	1	CUIGMICR	If yes, MICR/OCR control unit
30	(1E)	CHARACTER	1	CUIGGRPH	If yes, Graphics system control unit
31	(1F)	CHARACTER	1	CUIGOTHR	If yes, Other
32	(20)	CHARACTER	32	CUILOC	Location of control unit
64	(40)	CHARACTER	10	CUISER	Serial number of control unit
74	(4A)	CHARACTER	1	CUIFIMPL	If yes, PCU is handled under the cover
75	(4B)	CHARACTER	1	CUIFCF	If yes, CU is for Coupling and handled under the cover
76	(4C)	UNSIGNED	4	CUICNID	New Physical Control Unit number
80	(50)	UNSIGNED	4	CUIPRIO	Control Unit Priority
84	(54)	CHARACTER	22	*	Reserved
106	(6A)	CHARACTER	18	*	Reserved

Table 420. Structure DVI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	140	DVI	Basic area definition
0	(0)	CHARACTER	4	DVISD	Storage descriptor
4	(4)	UNSIGNED	4	DVILGTH	Length of area
8	(8)	UNSIGNED	4	DVIDVID	Structure, Device number
12	(C)	CHARACTER	1	DVIFMULT	If yes, multiple exposure device
13	(D)	CHARACTER	1	DVIFCSS	If yes, device defined in CSS
14	(E)	CHARACTER	1	DVIFGRP	If yes, group device
15	(F)	CHARACTER	1	*	Reserved
16	(10)	UNSIGNED	4	DVIGROUP	Device group identifier. Constants: DVIGDASD = DASD DVIGTAPE = Tape DVIGCLUS = Cluster Controller DVIGCOMM = Communications DVIGMICR = MICR/OCR DVIGGRPH = Graphics DVIGPRT = Printer DVIGCARD = Card reader/punch DVIGDISP = Display station DVIGTPRT = Terminal printer DVIGOTHR = Other
20	(14)	CHARACTER	8	DVIUNIT	Unit
28	(1C)	CHARACTER	4	DVIMODL	Model
32	(20)	UNSIGNED	4	DVIBASE	Base device number valid only if DVIFMULT is set
36	(24)	UNSIGNED	4	DVINEXP	Next exposure device number valid only if DVIFMULT is set
40	(28)	CHARACTER	8	DVIUIM	UIM name of UIM that contains CSS definition for device

Table 420. Structure DVI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	CHARACTER	32	DVILOC	Location of device
80	(50)	CHARACTER	10	DVISER	Serial number of device
90	(5A)	CHARACTER	1	DVIFIMPL	If yes, device is handled under the cover
91	(5B)	CHARACTER	1	DVIFCF	If yes, device is for Coupling Facility and handled under the cover
92	(5C)	CHARACTER	4	*	Reserved
96	(60)	CHARACTER	8	*	To contain VOLSER
96	(60)	CHARACTER	2	*	Reserved
98	(62)	CHARACTER	6	DVIVOLUM	Volume serial number
104	(68)	UNSIGNED	2	DVIRANGE	number of additional devs of the same device group represented by DVI
106	(6A)	CHARACTER	16	*	Reserved
122	(7A)	CHARACTER	8	DVIFLAG2	
122	(7A)	CHARACTER	1	DVIFPAV	Indicates device is a PAV device
123	(7B)	CHARACTER	1	DVIFBASE	Indicates device is a PAV-base device. DVIFPAV is also set.
124	(7C)	CHARACTER	1	DVIFALIA	Indicates device is a PAV-alias device. DVIFPAV is also set.
130	(82)	CHARACTER	10	*	Reserved

Table 421. Cross Reference for CBDZHOEX

Name	Offset	Hex Tag
CPI	0	
CPIAMODE	18	
CPICDID	48	
CPICNID	44	
CPICPID	8	
CPICSID	6C	
CPICSRAM	65	
CPICSRC	54	
CPIDISPQ	67	
CPIEXT	70	
CPIFAID	4E	
CPIFLOAT	1D	
CPIFPCHD	1F	
CPIFSPLX	1E	
CPIFSV	1C	
CPILGTH	4	
CPILOC	24	
CPIOCC	4D	
CPIOLD	0	
CPIOSPRM	64	
CPIPCHID	58	
CPIPRID	C	
CPISAID	70	
CPISD	0	

Table 421. Cross Reference for CBDZHOEX (continued)

Name	Offset	Hex Tag
CPISIDE	4C	
CPISMTU	68	
CPISPLEX	5C	
CPISPORT	74	
CPISWID	20	
CPITYPE	14	
CUI	0	
CUICNID	4C	
CUICUID	8	
CUIFCF	4B	
CUIFIMPL	4A	
CUIGCLUS	1A	
CUIGCOMM	1C	
CUIGDASD	18	
CUIGGRPH	1E	
CUIGMICR	1D	
CUIGOTHR	1F	
CUIGROUP	18	
CUIGTAPE	19	
CUIGUNIT	1B	
CUILGTH	4	
CUILOC	20	
CUIMODL	14	
CUIPRIO	50	
CUISD	0	
CUISER	40	
CUIUNIT	C	
DVI	0	
DVIBASE	20	
DVIDVID	8	
DVIFALIA	7C	
DVIFBASE	7B	
DVIFCF	5B	
DVIFCSS	D	
DVIFGRP	E	
DVIFIMPL	5A	
DVIFLAG2	7A	
DVIFMULT	C	
DVIFPAV	7A	
DVIGROUP	10	
DVILGTH	4	
DVILOC	30	
DVIMODL	1C	
DVINEXP	24	
DVIRANGE	68	
DVISD	0	
DVISER	50	
DVIUIM	28	
DVIUNIT	14	

Table 421. Cross Reference for CBDZHOEX (continued)

Name	Offset	Hex Tag
DVIVOLUM	62	
HSI	0	
HSICAUT	12	
HSIHLQ	8	
HSIIN	8	
HSILCHK	11	
HSILGTH	4	
HSINLS	10	
HSIOSYS	14	
HSIOUT	14	
HSISD	0	
HSISUBV	1C	
HSISUP1	20	
HSISUP2	24	
HSIVERS	18	
IOI	0	
IOIACT	9E	
IOIALINF	9C	
IOIAREF	A0	
IOIBLAC	24	
IOIBLUC	28	
IOIBUPDS	2C	
IOICDATE	C	
IOICHGLO	9D	
IOICXDAT	A	
IOIDESC1	8C	
IOIDESC2	94	
IOIFMODE	9	
IOIFMUA	1C0	
IOIFTYPE	8	
IOIIDESC	1D0	
IOILGTH	4	
IOINAME	58	
IOINTCPU	B5	
IOINTMODL	BA	
IOINTSER	B7	
IOINTTOD	BC	
IOINWWUV	B4	
IOIPHCNT	1BE	
IOIPTOK	1AE	
IOISD	0	
IOITCPU	A5	
IOITCPUP	1AF	
IOITMODL	AA	
IOITMODLP	1B4	
IOITOKEN	A4	
IOITSER	A7	
IOITSERP	1B1	
IOITTOD	AC	

Table 421. Cross Reference for CBDZHOEX (continued)

Name	Offset	Hex Tag
IOITTODP	1B6	
IOIUDATE	14	
IOIUTIME	1C	
IOIUXDAT	1A4	
IOIVALID	9F	
IOIVOLUM	84	
IOIWWUV	A4	
IOIWWUVP	1AE	
MSI	0	
MSIFERR	14	
MSIHEAD	0	
MSIHELP	28	
MSIID	8	
MSILGTH	4	
MSIMID	1C	
MSIRPYID	20	
MSISD	0	
MSISEV	10	
MSITEXT	48	
MSITEXTL	44	
PRI	0	
PRI#GUESC	68	
PRICONFM	20	
PRICSC	D0	
PRIECLVL	34	
PRILGTH	4	
PRILOC	3C	
PRILSYSN	D4	
PRIMODL	2C	
PRINETWN	74	
PRIPNID	84	
PRIPRID	8	
PRIRULET	6C	
PRISD	0	
PRISER	5C	
PRISNAAD	74	
PRISUPPL	8C	
PRISYLBL	CC	
PRISYSTN	7C	
PRITCPU	11	
PRITMODL	16	
PRITOKEN	8	
PRITSER	13	
PRITTOD	18	
PRITWWUV	10	
PRIUNIT	24	
PRIXMP	66	
SWI	0	
SWICUID	48	

Table 421. Cross Reference for CBDZHOEX (continued)

Name	Offset	Hex Tag
SWICUIDP	44	
SWIDVID	4C	
SWIDVIDP	45	
SWILGTH	4	
SWILOC	18	
SWIMODL	14	
SWISD	0	
SWISER	38	
SWISWAD	50	
SWISWADS	46	
SWISWR	8	
SWIUNIT	C	

Chapter 89. CBDZHRB Information

CBDZHRB Programming Interface Information

CBDZHRB is a programming interface.

CBDZHRB Heading Information

Common Name:	HCD object management (HOM) request block.
Macro ID:	CBDZHRB
DSECT Name:	HRB
Owning Component:	Hardware configuration dialog (SC1XL)
Eye-Catcher ID:	HRB Offset: 0 Length: 4
Storage Attributes:	Main Storage: Obtained by caller Residency: Determined by caller
Size:	748 bytes
Created by:	Routines using HOM
Pointed to by:	N/A
Serialization:	None
Function:	The request block (HRB) contains the detailed request to the HOM on input and the result of the given request generated on output. On input it contains data elements and control information that HOM needs, to know how to process the request.

CBDZHRB mapping

Table 422. Structure HRB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	748	HRB	
0	(0)	CHARACTER	4	HRB_SDESC	Storage descriptor
4	(4)	UNSIGNED	4	HRB_LENGTH	Length of area
8	(8)	CHARACTER	44	HRB_USE_IODF	Identifies the IODF to be used, if not specified the last IODF is reused. Full qualified DSN without quotes.
52	(34)	CHARACTER	1	HRB_ACTIVE_IODF	If yes, the active IODF is used instead of HRB_USE_IODF.
53	(35)	CHARACTER	3	*	Reserved
56	(38)	UNSIGNED	4	HRB_FUNCTION	Function code
60	(3C)	CHARACTER	4	*	Reserved
64	(40)	CHARACTER	120	HRB_OBJECT	Specification of the object in the request together with all its qualifiers which may be mandatory, optional or unnecessary depending on the request and the object.
64	(40)	UNSIGNED	4	HRB_OBJ_CODE	Object code
68	(44)	CHARACTER	8	HRB_OBJ_NAME	Name of object
76	(4C)	UNSIGNED	4	HRB_OBJ_NR	Fixed ID of object fullword

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Table 422. Structure HRB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
80	(50)	CHARACTER	16	HRB_Q_ARR(5)	Array of qualifiers
80	(50)	UNSIGNED	4	HRB_Q_CODE	Code of the qualifier
84	(54)	CHARACTER	8	HRB_Q_NAME	Name of qualifier
92	(5C)	UNSIGNED	4	HRB_Q_NR	Fixed ID of qualifier fullword
160	(A0)	CHARACTER	16	HRB_OBJ_NAMELONG	SCSI device name
176	(B0)	CHARACTER	8	*	Reserved
184	(B8)	CHARACTER	120	HRB_SOBJECT	Specification of second object involved in request with all its qualifiers. Only needed for requests with two objects.
184	(B8)	UNSIGNED	4	HRB_SOBJ_CODE	Object code of second object
188	(BC)	CHARACTER	8	HRB_SOBJ_NAME	Name of object
196	(C4)	UNSIGNED	4	HRB_SOBJ_NR	Fixed ID of object fullword
200	(C8)	CHARACTER	16	HRB_SQ_ARR(5)	Array of qualifiers
200	(C8)	UNSIGNED	4	HRB_SQ_CODE	Code of the qualifier
204	(CC)	CHARACTER	8	HRB_SQ_NAME	Name of qualifier
212	(D4)	UNSIGNED	4	HRB_SQ_NR	Fixed ID of qualifier fullword
280	(118)	CHARACTER	24	*	Reserved
304	(130)	CHARACTER	16	HRB_ATTRIBUTE(6)	Specification of additional attributes involved in the request. This fields are only needed for specific requests and objects.
304	(130)	UNSIGNED	4	HRB_A_CODE	Code of the first attribute
308	(134)	CHARACTER	8	HRB_A_NAME	Char value of attribute
316	(13C)	UNSIGNED	4	HRB_A_NR	Fixed value of attribute
400	(190)	CHARACTER	64	*	Reserved
464	(1D0)	UNSIGNED	4	HRB_REQ_MODE	Mode of the request. Only to be set for the GET request. See constant definition for details.
468	(1D4)	SIGNED	4	HRB_RANGE_VALUE	Number and direction of objects to process. If range is > 0 following objects are referenced. If range is < 0 preceding objects are referenced. The range includes the object with the given ID.
472	(1D8)	CHARACTER	8	HRB_PARMS	Additional parameters for specific requests only.
472	(1D8)	CHARACTER	1	HRB_TRACE	If yes, HOM request will be traced
473	(1D9)	CHARACTER	1	HRB_TRACE_CLOSE_EXTEND	If yes, trace data set is closed for extension
474	(1DA)	CHARACTER	2	*	Reserved
476	(1DC)	ADDRESS	4	HRB_HCXI_ADDR	Address of extended environment setup described in the HCXI interface record (used by IOS to pass HCD data to a second HCD instance, e.g. for common trace or profile data sets)
480	(1E0)	CHARACTER	32	HRB_APPLICATION	Application maintained area. No support by HOM.
512	(200)	CHARACTER	108	HRB_INTERN	HOM internal used area. Layout not externalized.

Table 422. Structure HRB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
620	(26C)	CHARACTER	128	HRB_INFO_RESULT	Section containing MUA info and HRB_Result
620	(26C)	CHARACTER	40	HRB_MUA_INFO	Section containing info ab. multi user access
620	(26C)	CHARACTER	8	HRB_LOCK_SYS	System name owning update lock
628	(274)	CHARACTER	8	HRB_LOCK_USER	User owning update lock
636	(27C)	UNSIGNED	1	HRB_LOCK_STAT	Locking status of IODF
637	(27D)	CHARACTER	3	*	Reserved
640	(280)	CHARACTER	16	HRB_LOCK_INFO	Lock information, TCB
656	(290)	CHARACTER	4	*	Reserved
660	(294)	CHARACTER	24	*	Reserved
684	(2AC)	CHARACTER	64	HRB_RESULT	Section containing result of the request
684	(2AC)	UNSIGNED	4	HRB_DATA_NR	Number of all output-data records available for request. Data may be obtained via the additional HRB_DGET request.
688	(2B0)	UNSIGNED	4	HRB_DATA_SIZE	Size for output-data generated. This is the minimum size necessary for the data-output-block in the additional HRB_DGET request.
692	(2B4)	UNSIGNED	4	HRB_DATA_MAXS	Maximum size of one output-data record for these request.
696	(2B8)	UNSIGNED	4	HRB_MSG_NR	Number of all messages available for request. Messages may be obtained by the additional HRB_MGET request.
700	(2BC)	UNSIGNED	4	HRB_MSG_SIZE	Size for messages generated. This is the minimum size necessary for the data-output-block in the additional HRB_MGET request.
704	(2C0)	UNSIGNED	4	HRB_MSG_MAXS	Maximum size of one message for these request.
708	(2C4)	CHARACTER	1	HRB_MSG_WRITTEN_TO_IOSQ	Message has been written to IOS queue.
709	(2C5)	CHARACTER	15	*	Reserved
724	(2D4)	UNSIGNED	4	HRB_IODF_INFO	IODF status information field, only set on output if HRB_ACTIVE_IODF specified. Constants: HRB_INSYNCH = HW and SW of the active IODF are in sync, HRB_NOTINSYNCH = HW and SW are out of sync, HRB_NOTOKEN = No valid HW token exists.
728	(2D8)	UNSIGNED	4	HRB_RETURN_CODE	Return code.
732	(2DC)	UNSIGNED	4	HRB_REASON_CODE	Reason-code.
736	(2E0)	UNSIGNED	4	HRB_CHK_DAR_CNT_SET	If 1, indicates that HRB_CHK_DAR_COUNT field has been set
740	(2E4)	UNSIGNED	4	HRB_CHK_DAR_COUNT	Total count of DAR records in IODF (used by HCM to check consistency with HCM config file)

Table 422. Structure HRB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
744	(2E8)	CHARACTER	4	*	Reserved

Table 423. Cross Reference for CBDZHRB

Name	Offset	Hex Tag
HRB	0	
HRB_A_CODE	130	
HRB_A_NAME	134	
HRB_A_NR	13C	
HRB_ACTIVE_IODF	34	
HRB_APPLICATION	1E0	
HRB_ATTRIBUTE	130	
HRB_CHK_DAR_CNT_SET	2E0	
HRB_CHK_DAR_COUNT	2E4	
HRB_DATA_MAXS	2B4	
HRB_DATA_NR	2AC	
HRB_DATA_SIZE	2B0	
HRB_FUNCTION	38	
HRB_HCXI_ADDR	1DC	
HRB_INFO_RESULT	26C	
HRB_INTERN	200	
HRB_IODF_INFO	2D4	
HRB_LENGTH	4	
HRB_LOCK_INFO	280	
HRB_LOCK_STAT	27C	
HRB_LOCK_SYS	26C	
HRB_LOCK_USER	274	
HRB_MSG_MAXS	2C0	
HRB_MSG_NR	2B8	
HRB_MSG_SIZE	2BC	
HRB_MSG_WRITTEN_TO_IOSQ	2C4	
HRB_MUA_INFO	26C	
HRB_OBJ_CODE	40	
HRB_OBJ_NAME	44	
HRB_OBJ_NAMELONG	A0	
HRB_OBJ_NR	4C	
HRB_OBJECT	40	
HRB_PARMS	1D8	
HRB_Q_ARR	50	
HRB_Q_CODE	50	
HRB_Q_NAME	54	
HRB_Q_NR	5C	
HRB_RANGE_VALUE	1D4	
HRB_REASON_CODE	2DC	
HRB_REQ_MODE	1D0	
HRB_RESULT	2AC	
HRB_RETURN_CODE	2D8	
HRB_SDESC	0	

Table 423. Cross Reference for CBDZHRB (continued)

Name	Offset	Hex Tag
HRB_SOBJ_CODE	B8	
HRB_SOBJ_NAME	BC	
HRB_SOBJ_NR	C4	
HRB_SOBJECT	B8	
HRB_SQ_ARR	C8	
HRB_SQ_CODE	C8	
HRB_SQ_NAME	CC	
HRB_SQ_NR	D4	
HRB_TRACE	1D8	
HRB_TRACE_CLOSE_EXTEND	1D9	
HRB_USE_IODF	8	

Chapter 90. CBDZIODV Information

CBDZIODV Programming Interface Information

CBDZIODV is a programming interface.

CBDZIODV Heading Information

Common Name:	IODEVICE Internal Text Record Mapping Macro
Macro ID:	CBDZIODV
DSECT Name:	IODV, IODVCUNL, IODVFEAL, IODVPARL, IODVDESL, PPVA, PPVAIX, PPVAVAL
Owning Component:	Hardware Configuration Definition (SC1XL)
Eye-Catcher ID:	IODEVICE Offset: 0 Length: 8
Storage Attributes:	Main Storage: Obtained by caller Residency: Determined by caller
Size:	164 bytes fixed part plus variable length extensions (IODV) 2nd section: 16 bytes (IODVCUNL) 3rd section: a variable number of 10 byte fields (IODVFEAL) 4th section: a variable number of 8 byte fields (IODVPARL) 5th section: a variable number of 44 byte fields (IODVDESL) 6th section: 12 byte header (PPVA) followed by 64 array entries (PPVAIX) which are 32 bytes each 7th section: a variable length field (PPVAVAL)
Created by:	Assembler using CBDZPARS macro, HCD routines
Pointed to by:	N/A
Serialization:	None
Function:	The CBDZIODV mapping contains: - The I/O device address and number, - The device characteristics, and - The control units to which the device is assigned, - The Private Parameter Value Array.

CBDZIODV mapping

Table 424. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'0'	0	IODV	"*" IODEVICE Internal Text Record
0	(0)	CHARACTER	28		Internal text record header (ITRH)
28	(1C)	CHARACTER	8	IODVUNIT	Unit name specified
36	(24)	SIGNED	2		Reserved.
38	(26)	BITSTRING	1	IODVUNIA	Unit address
39	(27)	BITSTRING	1	IODVCSID	Channel Subsystem ID
40	(28)	BITSTRING	2	IODVDEVN	Device Number from DEVNUMBR
42	(2A)	BITSTRING	2	IODVDNBR	Hex device number
44	(2C)	SIGNED	2	IODVNBRD	Number of devices, default=1

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Table 424. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
46	(2E)	BITSTRING	1	IODVUIMF	UIM Internal flag byte
		1...		IODVUCNT	"X'80'" 1= IODVNBRD default device count
47	(2F)	BITSTRING	1	IODVPRCF	Processing flag byte
		1...		IODVPMOD	"X'80'" Model is a supported parameter for this device type
		.1..		IODVPREJ	"X'40'" Do not process this IODEVICE stmt
		..1.		IODVPDEF	"X'20'" Define this I/O device
		...1		IODVPISC	"X'10'" Device is an ISC device
		.... 1...		IODVSDEF	"X'08'" DAD record has been created
		.... .1..		IODVPGRP	"X'04'" Process as a device group
		.... ..1.		IODVPCON	"X'02'" Device is connected to CHPID
48	(30)	ADDRESS	4	IODVCUPT	Pointer to control unit list (IODVCUNL), zero when no list. Each entry is 2 bytes long
52	(34)	SIGNED	2	IODVCUCT	Number of control units in list
54	(36)	SIGNED	2	IODVFCNT	Number of features in FEATURE list (IODVFEAL)
56	(38)	ADDRESS	4	IODVFPTR	Pointer to features list (IODVFEAL), zero when no features specified (each entry in the list is ten bytes long)
60	(3C)	SIGNED	4	(0)	Word alignment for bit map
60	(3C)	BITSTRING	8	IODVPARM(0)	Parameter bits
60	(3C)	BITSTRING	8	IODVPRMS(0)	Parameter bits
60	(3C)	ADDRESS	1	IODVFLG1	Keyword flag byte 1
Equates for MVS IODEVICE record					
		1...		IODVFADP	"X'80'" 1= ADAPTER keyword
		.1..		IODVFADD	"X'40'" 1= ADDRESS keyword
		...1		IODVFFEA	"X'10'" 1= FEATURE keyword
		.... .1..		IODVFMOD	"X'04'" 1= MODEL keyword
		.... ..1.		IODVFNUM	"X'02'" 1= NUMSECT keyword
		1		IODVFOFF	"X'01'" 1= OFFLINE=YES
Equates for VM RDEVICE record					
		1...		IODVVADP	"X'80'" 1= ADAPTER keyword
		.1..		IODVVAFP	"X'40'" 1= AFP keyword
		..1.		IODVVBAD	"X'20'" 1= BASEADD keyword
		...1		IODVVCHR	"X'10'" 1= CHARS keyword
		.... 1...		IODVVCLS	"X'08'" 1= CLASS keyword
		.... .1..		IODVVCPN	"X'04'" 1= CPNAME keyword
		.... ..1.		IODVVDST	"X'02'" 1= DEST keyword
		1		IODVVDPM	"X'01'" 1= DPMSIZE keyword
61	(3D)	ADDRESS	1	IODVFLG2	Keyword flag byte 2
Equates for MVS IODEVICE record					
		1...		IODVFPCU	"X'80'" 1= PCU keyword
		.1..		IODVFSET	"X'40'" 1= SETADDR keyword
		..1.		IODVFTCU	"X'20'" 1= TCU keyword

Table 424. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		IODVFUNI	"X'10'" 1= UNIT keyword
		.... 1...		IODVFDYN	"X'08'" 1= DYNAMIC keyword
		.... .1..		IODVFOWN	"X'04'" 1= OWNER keyword
		.... ..1.		IODVFLOC	"X'02'" 1= LOCANY keyword
		Equates for VM RDEVICE record			
		1...		IODVVFCB	"X'80'" 1= FCB keyword
		.1..		IODVVFLH	"X'40'" 1= FLASH keyword
		..1.		IODVVFLD	"X'20'" 1= FOLD keyword
		...1		IODVVFRM	"X'10'" 1= FORM keyword
		.... 1...		IODVVIMG	"X'08'" 1= IMAGE keyword
		.... .1..		IODVVIND	"X'04'" 1= INDEX keyword
		.... ..1.		IODVVMOD	"X'02'" 1= MODEL keyword
		1		IODVVOFF	"X'01'" 1= OFFLINE keyword
62	(3E)	ADDRESS	1	IODVFLG3	Keyword flag byte 3
		Equates for VM RDEVICE record			
		1...		IODVVSEP	"X'80'" 1= SEP keyword
		.1..		IODVVSET	"X'40'" 1= SETADDR keyword
		..1.		IODVVSHR	"X'20'" 1= SHARED keyword
		...1		IODVVUIR	"X'10'" 1= UIRATE keyword
		.... 1...		IODVVMRK	"X'08'" 1= MARK keyword
		.... .1..		IODVVLIM	"X'04'" 1= LIMIT keyword
		.... ..1.		IODVVMDC	"X'02'" 1= MDC keyword
		1		IODVVDYN	"X'01'" 1= DYNAMIC keyword
63	(3F)	BITSTRING	1	IODVFLG4	Reserved
		Equates for VM RDEVICE record			
		1...		IODVVEQD	"X'80'" 1= EQID keyword
64	(40)	BITSTRING	1	IODVFLG5	Reserved
		Equates for VM RDEVICE record for DEVTYPE=FBASCSI			
		.... 1...		IODVVATT	"X'08'" 1= ATTR keyword
		.... .1..		IODVVFCP	"X'04'" 1= FCPDEV keyword
		.... ..1.		IODVVWWP	"X'02'" 1= WWPN keyword
		1		IODVVLUN	"X'01'" 1= LUN keyword
65	(41)	BITSTRING	1	IODVFLG6	Reserved
		1...		IODVVPTH	"X'80'" 1= PREFPATHkeyword
66	(42)	BITSTRING	2		Reserved
68	(44)	SIGNED	4	IODVIOCP(0)	IOCP-only parameter bits
68	(44)	BITSTRING	4	IODVIPRM(0)	IOCP-only parameter bits
68	(44)	ADDRESS	1	IODVIOF1	IOCP-only keyword flag byte
		1...		IODVICUN	"X'80'" 1= CUNUMBR keyword
		.1..		IODVIPTH	"X'40'" 1= PATH keyword
		..1.		IODVISTA	"X'20'" 1= STADET=N
		...1		IODVITIM	"X'10'" 1= TIMEOUT=N
		.... 1...		IODVIUNA	"X'08'" 1= UNITADD keyword
		.... .1..		IODVIDEV	"X'04'" 1= DEVNUMBR keyword
		.... ..1.		IODVISTY	"X'02'" 1= STADET=Y
		1		IODVITMY	"X'01'" 1= TIMEOUT=Y
69	(45)	ADDRESS	1	IODVIOF2	IOCP-only keyword flag byte 2
		1...		IODVIPAR	"X'80'" 1= PARTITION keyword
		.1..		IODVINPA	"X'40'" 1= NOTPART keyword

Table 424. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		IODVIPCS	"X'20'" 1= CSS specified with PART
		...1		IODVICCS	"X'10'" 1= CSS specified with PATH
70	(46)	BITSTRING	2		Reserved
72	(48)	CHARACTER	4	IODVMODL	Model number (valid only when IODVFMOD is set)
76	(4C)	BITSTRING	1	IODVPFLG	Parameter flags
		1...		IODVPOFF	"X'80'" .. ON = OFFLINE=YES, otherwise NO
		.1..		IODVPDYN	"X'40'" .. ON = DYNAMIC=YES, otherwise NO
		..1.		IODVPLOC	"X'20'" .. ON = LOCANY=YES, otherwise NO
77	(4D)	BITSTRING	1		Reserved
78	(4E)	SIGNED	2	IODVNUMS	Number of 256-byte buffer sections in a 2840 display control unit to be assigned to a 2250 Model 3 (valid only when IODVFNUM is set)
80	(50)	CHARACTER	4	IODVTCU	Transmission control unit (valid only when IODVFTCU is set)
84	(54)	SIGNED	2	IODVCHPC	Number of entries in preferred CHPID list (IODVCHPL)
86	(56)	BITSTRING	1	IODVPATH	Channel Path (valid only when IODVFPTH is set)
87	(57)	BITSTRING	1	IODVSETA	Set address command indicator for 2702 (valid only when IODVFSET is set)
88	(58)	CHARACTER	5	IODVADPT	Transmission adapter specified on ADAPTER keyword (valid only when IODVFADP is set)
93	(5D)	BITSTRING	1	IODVSSID	Subchannel set number
94	(5E)	BITSTRING	2	IODVPCU	Physical control unit ID (valid only when IODVFPCU is set)
96	(60)	ADDRESS	4	IODVPPVA	Address to Private Parameter Value Array (PPVA)
100	(64)	CHARACTER	2		Reserved
102	(66)	ADDRESS	2	IODVXLEN	Length of extension area
104	(68)	ADDRESS	4	IODVXPTR	Address to extension area
108	(6C)	BITSTRING	8	IODVFEAT(0)	Feature bit string
108	(6C)	ADDRESS	1	IODVFEA1	Feature flag byte 1
Equates for VM RDEVICE record					
		1...		IODVFCNV	"X'80'" 1= CONV feature
		.1..		IODVFDUA	"X'40'" 1= DUALDENS feature
		..1.		IODVFEMU	"X'20'" 1= EMUL3270 feature
		...1		IODVFHLD	"X'10'" 1= E3270HLD feature
		.... 1...		IODVFOPR	"X'08'" 1= OPRDR feature
		.... .1..		IODVFTRN	"X'04'" 1= TRANS feature
		.... ..1.		IODVFUNV	"X'02'" 1= UNVCHSET feature
		1		IODVF4WC	"X'01'" 1= 4WCGMS feature
109	(6D)	ADDRESS	1	IODVFEA2	Feature flag byte 2
Equates for VM RDEVICE record					

Table 424. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		IODVF7TR	"X'80'" 1= 7-TRACK feature
		.1..		IODVFDPS	"X'40'" 1= DPS feature
		..1.		IODVFRES	"X'20'" 1= RESERVE feature
110	(6E)	BITSTRING	6		Feature flag bytes 3 to 8
116	(74)	CHARACTER	8	IODVOWNR	Owner identification
124	(7C)	ADDRESS	4	IODVPARP	Pointer to partition list (IODVPARL) zero when no partition specified (each entry in the list is eigth bytes long)
128	(80)	SIGNED	2	IODVPARC	Number of entries in partition list (IODVPARL)
130	(82)	SIGNED	2	IODVDESC	Number of entries in IODVDESL
132	(84)	ADDRESS	4	IODVDESP	Pointer to list of serial number and description of devices (IODVDESL) zero when list not available
136	(88)	SIGNED	2	IODVEXPO	First non-base exposure device number, only valid when IODVMULT is set
138	(8A)	BITSTRING	1	IODVFLB	Flag byte
		1...		IODVMULT	"X'80'" Device is a multi-exposure device and IODVEXPO contains the starting device number of the first non-base exposure
		.1..		IODVFPAV	"X'40'" If set, indicates that device is a PAV device
		..1.		IODVFBAS	"X'20'" If set, indicates device is a PAV-base device. IODVFPAV is also set.
		...1		IODVFALI	"X'10'" If set, indicates device is a PAV-alias device. IODVFPAV is also set.
		.... 1...		IODVFSCH	"X'08'" If set, indicates device has subchannel set ID set, i.e. IODVSSID is set
139	(8B)	BITSTRING	1	IODVCSSM	Internal CSS mask
140	(8C)	ADDRESS	1	IODVSCHC	Number of entries in IODVSCHL
141	(8D)	CHARACTER	1	IODVPPRC	PPRC usage
142	(8E)	CHARACTER	1		Reserved
143	(8F)	BITSTRING	1	IODVCCSM	Internally used 002A
144	(90)	CHARACTER	6	IODVVOL	Reserved
150	(96)	BITSTRING	1	IODVXCSM	Internal existence mask
151	(97)	BITSTRING	1	IODVNCMK	CSS mask of null device cand list
152	(98)	ADDRESS	4	IODVPARS	Pointer to partition status list (IODVPAST), contains zero when no CSS is specified (number of entries contained in IODVPARC)
156	(9C)	ADDRESS	4	IODVCHPP	Pointer to preferred CHPID list
160	(A0)	ADDRESS	4	IODVSCHP	Pointer to subchannel set list

CBDZIODV mapping

Table 425. Structure IODVCUNL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IODVCUNL	Control Unit list - pointed to by IODVCUPT
0	(0)	SIGNED	2	IODVCUNO(8)	8 is a maximum - may be less or 0

Table 426. Structure IODVFEAL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IODVFEAL	Features list - pointed to by IODVFPTR
0	(0)	CHARACTER	10	IODVFNAM(0)	Unknown number of features

Table 427. Structure IODVPARL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IODVPARL	Partition list - pointed to by IODVPARP
0	(0)	CHARACTER	8	IODVPANM(0)	Partition name - unknown number of entries

Table 428. Structure IODVPAST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IODVPAST	Partition status list - pointed to by IODVPARS
0	(0)	CHARACTER	2	(0)	Partition name - unknown number of entries
0	(0)	ADDRESS	1	IODVPACS	CSS id
1	(1)	BITSTRING	1	IODVPAIX	Inclusion/exclusion status
		1...		IODVPAIN	"X'80'" .. Partition included
		.1..		IODVPAEX	"X'40'" .. Partition excluded

Table 429. Structure IODVCHPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IODVCHPL	Preferred CHPID list - pointed to by IODVCHPP
0	(0)	BITSTRING	1	IODVCHP	Id of channel path used as preferred channel path
1	(1)	ADDRESS	1	IODVCHCS	CSS id of channel path

Table 430. Structure IODVSCHL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IODVSCHL	Subchannel Set list - pointed to by IODVSCHP
0	(0)	BITSTRING	1	IODVSCHS	Subchannel set number in this channel subsystem

Table 430. Structure IODVSCHL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1	(1)	ADDRESS	1	IODVSSCS	CSS id of subchannel set

Table 431. Structure IODVDESL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IODVDESL	Device description list
0	(0)	CHARACTER	10	IODVSER	- Serial number
10	(A)	CHARACTER	2		- Reserved
12	(C)	CHARACTER	32	IODVDES	- Description

Table 432. Structure PPVA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PPVA	Private Parameter Value Array
0	(0)	CHARACTER	4	PPVASD	Storage descriptor ('PPVA')
4	(4)	ADDRESS	4	PPVAAVAL	address to value area
8	(8)	SIGNED	4	PPVASVAL	size of value area
12	(C)	SIGNED	4	PPVAAIX(0)	the index area

Table 433. Structure PPVAIX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PPVAIX	Private Parameter Value Array
0	(0)	BITSTRING	1	PPVATYP	parameter type
0	(0)	X'1'	0	PPVATDEC	"1" .. Decimal data
0	(0)	X'2'	0	PPVACHAR	"2" .. Character data
0	(0)	X'3'	0	PPVAHEX	"3" .. Hexadecimal data
0	(0)	X'4'	0	PPVAANUM	"4" .. Alphanumeric data
0	(0)	X'5'	0	PPVAANUX	"5" .. Alphanumeric data or '*'
0	(0)	X'6'	0	PPVAYN	"6" .. YES / NO
0	(0)	X'7'	0	PPVANAMC	"7" .. Character name
0	(0)	X'8'	0	PPVANAMX	"8" .. Character name or '*'
0	(0)	X'9'	0	PPVANAM_	"9" .. Character name including '_'
1	(1)	BITSTRING	1	PPVALEN	length of parameter value
2	(2)	BITSTRING	1	PPVACNT	number of specified parameter values
3	(3)	CHARACTER	1		reserved
4	(4)	CHARACTER	24		reserved for later use
28	(1C)	ADDRESS	4	PPVAVALP	address to the parameter value in the value area

Table 434. Structure PPVAVAL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PPVAVAL	PPVA index area
0	(0)	CHARACTER	1	PPVAVNAM(0)	the parameter value

Table 434. Structure PPVAVAL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
The following definitions used for field PPVAPNAM if the parameter value is of type PPVAYN.					
0	(0)	X'F0'	0	PPVAPNO	"C'0'" 'NO' is parameter value
0	(0)	X'F1'	0	PPVAPYES	"C'1'" 'YES' is parameter value

Table 435. Cross Reference for CBDZIODV

Name	Offset	Hex Tag
IODV	0	0
IODVADPT	58	
IODVCCSM	8F	
IODVCHCS	1	
IODVCHP	0	
IODVCHPC	54	
IODVCHPL	0	
IODVCHPP	9C	
IODVCSID	27	
IODVCSSM	8B	
IODVCUCT	34	
IODVCUNL	0	
IODVCUNO	0	
IODVCUPT	30	
IODVDES	C	
IODVDESC	82	
IODVDESL	0	
IODVDESP	84	
IODVDEVN	28	
IODVDNBR	2A	
IODVEXPO	88	
IODVFADD	3C	40
IODVFADP	3C	80
IODVFALI	8A	10
IODVFBAS	8A	20
IODVFCNT	36	
IODVFCNV	6C	80
IODVFDPS	6D	40
IODVFDUA	6C	40
IODVFDYN	3D	8
IODVFEAL	0	
IODVFEAT	6C	
IODVFEA1	6C	
IODVFEA2	6D	
IODVFEMU	6C	20
IODVFFEA	3C	10
IODVFHLD	6C	10
IODVFLB	8A	
IODVFLG1	3C	
IODVFLG2	3D	

Table 435. Cross Reference for CBDZIODV (continued)

Name	Offset	Hex Tag
IODVFLG3	3E	
IODVFLG4	3F	
IODVFLG5	40	
IODVFLG6	41	
IODVFLOC	3D	2
IODVFMOD	3C	4
IODVFNAM	0	
IODVFNUM	3C	2
IODVFOFF	3C	1
IODVFOPR	6C	8
IODVFOWN	3D	4
IODVFPAV	8A	40
IODVFPCU	3D	80
IODVFPTR	38	
IODVFRES	6D	20
IODVFSCH	8A	8
IODVFSET	3D	40
IODVFTCU	3D	20
IODVFTRN	6C	4
IODVFUNI	3D	10
IODVFUNV	6C	2
IODVF4WC	6C	1
IODVF7TR	6D	80
IODVICCS	45	10
IODVICUN	44	80
IODVIDEV	44	4
IODVINPA	45	40
IODVIOCP	44	
IODVIOF1	44	
IODVIOF2	45	
IODVIPAR	45	80
IODVIPCS	45	20
IODVIPRM	44	
IODVIPTH	44	40
IODVISTA	44	20
IODVISTY	44	2
IODVITIM	44	10
IODVITMY	44	1
IODVIUNA	44	8
IODVMODL	48	
IODVMULT	8A	80
IODVNBRD	2C	
IODVNCMK	97	
IODVNUMS	4E	
IODVOWNR	74	
IODVPACS	0	
IODVPAEX	1	40
IODVPAIN	1	80
IODVPAIX	1	

Table 435. Cross Reference for CBDZIODV (continued)

Name	Offset	Hex Tag
IODVPANM	0	
IODVPARC	80	
IODVPARL	0	
IODVPARM	3C	
IODVPARP	7C	
IODVPARS	98	
IODVPAST	0	
IODVPATH	56	
IODVPCON	2F	2
IODVPCU	5E	
IODVPDEF	2F	20
IODVPDYN	4C	40
IODVPFLG	4C	
IODVPGRP	2F	4
IODVPISC	2F	10
IODVPLOC	4C	20
IODVPMOD	2F	80
IODVPOFF	4C	80
IODVPPRC	8D	
IODVPPVA	60	
IODVPRCF	2F	
IODVPREJ	2F	40
IODVPRMS	3C	
IODVSCHC	8C	
IODVSCHL	0	
IODVSCHP	A0	
IODVSCHS	0	
IODVSDEF	2F	8
IODVSER	0	
IODVSETA	57	
IODVSSCS	1	
IODVSSID	5D	
IODVTCU	50	
IODVUCNT	2E	80
IODVUIMF	2E	
IODVUNIA	26	
IODVUNIT	1C	
IODVVADP	3C	80
IODVVAFP	3C	40
IODVVATT	40	8
IODVVBAD	3C	20
IODVVCHR	3C	10
IODVVCLS	3C	8
IODVVCPN	3C	4
IODVVDPM	3C	1
IODVVDST	3C	2
IODVVDYN	3E	1
IODVVEQD	3F	80
IODVVFCB	3D	80

Table 435. Cross Reference for CBDZIODV (continued)

Name	Offset	Hex Tag
IODVVFCP	40	4
IODVVFLD	3D	20
IODVVFLH	3D	40
IODVVFRM	3D	10
IODVVIMG	3D	8
IODVVIND	3D	4
IODVVLIM	3E	4
IODVVLUN	40	1
IODVVMDC	3E	2
IODVVMOD	3D	2
IODVVMRK	3E	8
IODVVOFF	3D	1
IODVVOL	90	
IODVVPTH	41	80
IODVVSEP	3E	80
IODVVSET	3E	40
IODVVSHR	3E	20
IODVVUIR	3E	10
IODVVWWP	40	2
IODVXCSM	96	
IODVXLEN	66	
IODVXPTR	68	
PPVA	0	
PPVAAIX	C	
PPVAANUM	0	4
PPVAANUX	0	5
PPVAAVAL	4	
PPVACHAR	0	2
PPVACNT	2	
PPVAHEX	0	3
PPVAIX	0	
PPVALEN	1	
PPVANAM_	0	9
PPVANAMC	0	7
PPVANAMX	0	8
PPVAPNO	0	F0
PPVAPYES	0	F1
PPVASD	0	
PPVASVAL	8	
PPVATDEC	0	1
PPVATYP	0	
PPVAVAL	0	
PPVAVALP	1C	
PPVAVNAM	0	
PPVAYN	0	6

Chapter 91. CBDZITRH Information

CBDZITRH Programming Interface Information

CBDZITRH is a programming interface.

CBDZITRH Heading Information

Common Name:	Internal Text Record Header Mapping Macro
Macro ID:	CBDZITRH
DSECT Name:	ITRH
Owning Component:	Hardware Configuration Definition (SC1XL)
Eye-Catcher ID:	RESOURCE, CHPID, IODEVICE, CNTLUNIT, EDT, UNITNAME, NIPCON, ID, IOCONFIG, RDEVICE, SWITCH, PORT, SWCONF, POCONF, FUNCTION, RIOGEN, HCDSEP, or HCDEND Offset: 0 Length: 8
Storage Attributes:	Main Storage: Obtained by caller Key: Caller Data Space: SUBPOOL AND KEY: Residency: Determined by caller
Size:	28 bytes
Created by:	Assembler using CBDZPARS macro, HCD modules
Pointed to by:	N/A
Serialization:	None
Function:	Maps the Internal Text Record Header.

CBDZITRH mapping

Table 436. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

Table 437. Structure ITRH

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ITRH	CBDZITRH Internal Text Record Header
0	(0)	CHARACTER	8	ITRHID	Internal text record type (CHPID, CNTLUNIT, EDT, ID, IOCONFIG, IODEVICE, NIPCON, HCDEND, HCDSEP, RDEVICE, RIOGEN, or UNITNAME)
8	(8)	CHARACTER	6	ITRHSNBR	statement number, right aligned
14	(E)	BITSTRING	1		Reserved
15	(F)	CHARACTER	1	ITRHFNBR	File number
16	(10)	ADDRESS	4	ITRHNEXT	Pointer to next internal text record, zero if last record

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Table 437. Structure ITRH (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	BITSTRING	4		Reserved
24	(18)	BITSTRING	4	ITRHUSER	For component use
28	(1C)	BITSTRING	1	ITRHTEXT(0)	Start of internal text

Table 438. Cross Reference for CBDZITRH

Name	Offset	Hex Tag
ITRH	0	
ITRHFNBR	F	
ITRHID	0	
ITRHNEXT	10	
ITRHSNBR	8	
ITRHTEXT	1C	
ITRHUSER	18	

Chapter 92. CBDZMSG Information

CBDZMSG Programming Interface Information

CBDZMSG is a programming interface.

CBDZMSG Heading Information

Common Name:	HCD Message Routine Parameter List
Macro ID:	CBDZMSG
DSECT Name:	MSGR
Owning Component:	Hardware Configuration Definition (SC1XL)
Eye-Catcher ID:	MSG Offset: 0 Length: 4
Storage Attributes:	Main Storage: Obtained by caller Data Space: SUBPOOL AND KEY: Residency: Determined by caller
Size:	128 bytes
Created by:	UIM and other HCD routines
Pointed to by:	N/A
Serialization:	None
Function:	Maps the HCD Message Routine Parameter List

CBDZMSG mapping

Table 439. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

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Table 439. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
%MSGR00: ;
     START OF SPECIFICATIONS
    ACRONYM: CBDZMSG
    EXTERNAL CLASSIFICATION: PSPI
    END OF EXTERNAL CLASSIFICATION
    MACRO NAME: CBDZMSG
    DSECT NAME: MSGR
    DESCRIPTIVE NAME: HCD Message Routine Parameter List
    PROPRIETARY STATEMENT:
       LICENSED MATERIALS - PROPERTY OF IBM
       THIS MACRO IS "RESTRICTED MATERIALS OF IBM"
       5647-A01 (C) COPYRIGHT IBM CORP. 1990, 2011
    STATUS: HCS7780
    COMPONENT: Hardware Configuration Definition (SC1XL)
    EYE-CATCHER: MSG
      OFFSET: 0
      LENGTH: 4
    STORAGE ATTRIBUTES:
      MAIN STORAGE: Obtained by caller
      VIRTUAL STORAGE:
      AUXILIARY STORAGE:
      DATA SPACE:
      SUBPOOL AND KEY:
      SUBPOOL:
      KEY:
      RESIDENCY: Determined by caller
    SIZE: 128 bytes
    CREATED BY: UIM and other HCD routines
    POINTED TO BY: N/A
    SERIALIZATION: None
    FUNCTION: Maps the HCD Message Routine Parameter List
    MODULE TYPE: Bilingual Mapping Macro
    DEPENDENCIES: None
    RESTRICTIONS: For HCD and UIM use only
    PROCESSOR: PLX Compiler or Assembler/H
    INVOCATION:
      PLX: %DCL MSGRDEF CHAR
             %MSGRDEF='value'
                 value = 'BASED', 'BDY(WORD)' or
                         'BASED(xxxxxxxx)'
             %DCL MSGARDEF CHAR
             %MSGARDEF='value'
                 value = 'YES'
             %INCLUDE SYSLIB(CBDZMSG)
             If MSGRDEF is not declared and initialized, the
             default is 'BDY(WORD)'.
             If MSGARDEF is not declared and initialized, the
             the mapping for the MSG-array will not appear.
      ASSEMBLER: CBDZMSG ,
    CHANGE ACTIVITY:
      $L0= HCD HCSH101 900420 BOEB: Hardware Configuration Dialog
      $L1= DYN HCSH101 900530 BOEB: Dynamic Configuration
      $L8= HCD HCSH301 910617 BOEB: HCD Object Management Support
      $M5=OA14334 HCS7720 060405 SEL: routing code SYSLOG
      $L9=QUAL HCS7770 091028 BBEI: Introduce severe warning msgs
      $LA=QUAL HCS7780 110511 BBEI: Introduce STMTNO parameter
     END OF SPECIFICATIONS
%GOTO MSGR01; Skip the assembler mapping
              Message Routine Parameter List
```

					WS

Table 439. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	SIGNED	4	(0)	Message Routine Input Parameter
0	(0)	CHARACTER	4	MSGSD	Storage descriptor
4	(4)	CHARACTER	8	MSGMID	Message identifier
12	(C)	CHARACTER	1	MSGSEV	Severity level
12	(C)	X'C9'	0	MSGINFO	"C'I'" .. Informational message
12	(C)	X'E6'	0	MSGWARN	"C'W'" .. Warning message
12	(C)	X'E2'	0	MSGSWRN	"C'S'" .. Severe warning message
12	(C)	X'C5'	0	MSGERR	"C'E'" .. Error message
12	(C)	X'E3'	0	MSGTERM	"C'T'" .. Terminating message
13	(D)	BITSTRING	1	MSGFLGS	Flags
		1...		MSGFUIM	"B'10000000'" .. Caller is a UIM
		.1..		MSGFSTMT	"B'01000000'" .. STMT=YES was specified
		..1.		MSGFFILE	"B'00100000'" .. STMT=FILE was specified
		.... 1...		MSGFCNTL	"B'00001000'" .. Is a CONTROL message
14	(E)	ADDRESS	1	MSGROUTE	Message Routing Code
14	(E)	X'1'	0	MSGRSCRN	"1" .. Default destination (screen or SYSPRINT depending on mode
14	(E)	X'2'	0	MSGRSLOG	"2" .. Message is destined for HCD log (HCDMLOG)
14	(E)	X'3'	0	MSGRTLOG	"3" .. Message is destined for temporary log for message fullist
14	(E)	X'4'	0	MSGRYLOG	"4" .. Message is destined for syslog
15	(F)	CHARACTER	1	MSGSEVC	Control severity level, this field overrules MSGSEV, it may be used if a message is to be logged into a severity queue deviating from the queue specified in MSGSEV.
16	(10)	CHARACTER	8	MSGCURS	Identifier of dialog variable the cursor is to be positioned
24	(18)	ADDRESS	4	MSGPTR1	Pointer to message variable 1
28	(1C)	SIGNED	1	MSGLEN1	Length of message variable 1
29	(1D)	BITSTRING	1	MSGTYP1	Type of message variable 1
30	(1E)	BITSTRING	2		Reserved
32	(20)	ADDRESS	4	MSGPTR2	Pointer to message variable 2
36	(24)	SIGNED	1	MSGLEN2	Length of message variable 2
37	(25)	BITSTRING	1	MSGTYP2	Type of message variable 2
38	(26)	BITSTRING	2		Reserved
40	(28)	ADDRESS	4	MSGPTR3	Pointer to message variable 3
44	(2C)	SIGNED	1	MSGLEN3	Length of message variable 3
45	(2D)	BITSTRING	1	MSGTYP3	Type of message variable 3
46	(2E)	BITSTRING	2		Reserved
48	(30)	ADDRESS	4	MSGPTR4	Pointer to message variable 4
52	(34)	SIGNED	1	MSGLEN4	Length of message variable 4
53	(35)	BITSTRING	1	MSGTYP4	Type of message variable 4
54	(36)	BITSTRING	2		Reserved
56	(38)	ADDRESS	4	MSGPTR5	Pointer to message variable 5

Table 439. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
60	(3C)	SIGNED	1	MSGLEN5	Length of message variable 5
61	(3D)	BITSTRING	1	MSGTYP5	Type of message variable 5
62	(3E)	BITSTRING	2		Reserved
64	(40)	ADDRESS	4	MSGPTR6	Pointer to message variable 6
68	(44)	SIGNED	1	MSGLEN6	Length of message variable 6
69	(45)	BITSTRING	1	MSGTYP6	Type of message variable 6
70	(46)	BITSTRING	2		Reserved
72	(48)	ADDRESS	4	MSGPTR7	Pointer to message variable 7
76	(4C)	SIGNED	1	MSGLEN7	Length of message variable 7
77	(4D)	BITSTRING	1	MSGTYP7	Type of message variable 7
78	(4E)	BITSTRING	2		Reserved
80	(50)	ADDRESS	4	MSGPTR8	Pointer to message variable 8
84	(54)	SIGNED	1	MSGLEN8	Length of message variable 8
85	(55)	BITSTRING	1	MSGTYP8	Type of message variable 8
86	(56)	BITSTRING	2		Reserved
88	(58)	ADDRESS	4	MSGPTR9	Pointer to message variable 9
92	(5C)	SIGNED	1	MSGLEN9	Length of message variable 9
93	(5D)	BITSTRING	1	MSGTYP9	Type of message variable 9
94	(5E)	BITSTRING	2		Reserved
96	(60)	BITSTRING	16		Reserved
112	(70)	BITSTRING	16	MSGFPOS	Position field name
112	(70)	X'80'	0	MSGEND	"*" End of MSGR.
0	(0)	CHARACTER	1	MSGR	Message Log Routine Input Parms.
The following constants are used for the message variable type					
0	(0)	X'C3'	0	MSGTCHAR	"C'C'" .. Message variable is character
0	(0)	X'C2'	0	MSGTBIN	"C'B'" .. Message variable is binary
0	(0)	X'C8'	0	MSGTHEX	"C'H'" .. Message variable is hexadecimal
128	(80)	CHARACTER	4	MSGIDNM	Constant for storage descriptor

Table 440. Cross Reference for CBDZMSG

Name	Offset	Hex Tag
MSGCURS	10	40404040
MSGEND	70	80
MSGERR	C	C5
MSGFCNTL	D	8
MSGFFILE	D	20
MSGFLGS	D	0
MSGFPOS	70	0
MSGFSTMT	D	40
MSGFUIM	D	80
MSGIDNM	80	D4E2C740
MSGINFO	C	C9
MSGLEN1	1C	0
MSGLEN2	24	0
MSGLEN3	2C	0
MSGLEN4	34	0

Table 440. Cross Reference for CBDZMSG (continued)

Name	Offset	Hex Tag
MSGLEN5	3C	0
MSGLEN6	44	0
MSGLEN7	4C	0
MSGLEN8	54	0
MSGLEN9	5C	0
MSGMID	4	40404040
MSGPTR1	18	
MSGPTR2	20	
MSGPTR3	28	
MSGPTR4	30	
MSGPTR5	38	
MSGPTR6	40	
MSGPTR7	48	
MSGPTR8	50	
MSGPTR9	58	
MSGR	0	
MSGROUTE	E	
MSGRSCRN	E	1
MSGRSLOG	E	2
MSGRTLOG	E	3
MSGRYLOG	E	4
MSGSD	0	D4E2C740
MSGSEV	C	40
MSGSEVC	F	40
MSGSWRN	C	E2
MSGTBIN	0	C2
MSGTCHAR	0	C3
MSGTERM	C	E3
MSGTHEX	0	C8
MSGTYP1	1D	0
MSGTYP2	25	0
MSGTYP3	2D	0
MSGTYP4	35	0
MSGTYP5	3D	0
MSGTYP6	45	0
MSGTYP7	4D	0
MSGTYP8	55	0
MSGTYP9	5D	0
MSGWARN	C	E6

Chapter 93. CBDZSIP Information

CBDZSIP Programming Interface Information

CBDZSIP is a programming interface.

CBDZSIP Heading Information

Common Name:	Switch Information Parameters (SIP)
Macro ID:	CBDZSIP
DSECT Name:	SIP
Owning Component:	Hardware Configuration Definition (SC1XL)
Eye-Catcher ID:	SIP Offset: 0 Length: 4
Storage Attributes:	Main Storage: Obtained by UIM Data Space: SUBPOOL AND KEY: Residency: Determined by caller
Size:	See generated data
Created by:	UIM
Pointed to by:	N/A
Serialization:	None
Function:	Maps the Switch Information Parameters

CBDZSIP mapping

Table 441. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

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Table 441. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
%SIP00:;
     START OF SPECIFICATIONS
    ACRONYM: CBDZSIP
    EXTERNAL CLASSIFICATION: PSPI
    END OF EXTERNAL CLASSIFICATION
    MACRO NAME: CBDZSIP
    DSECT NAME: SIP
    DESCRIPTIVE NAME: Switch Information Parameters (SIP)
    PROPRIETARY STATEMENT:
       LICENSED MATERIALS - PROPERTY OF IBM
       THIS MACRO IS "RESTRICTED MATERIALS OF IBM"
       5647-A01 (C) COPYRIGHT IBM CORP. 1990, 2000
    STATUS: HCS6091
    COMPONENT: Hardware Configuration Definition (SC1XL)
    EYE-CATCHER: SIP
      OFFSET: 0
      LENGTH: 4
    STORAGE ATTRIBUTES:
      MAIN STORAGE: Obtained by UIM
      VIRTUAL STORAGE:
      AUXILIARY STORAGE:
      DATA SPACE:
      SUBPOOL AND KEY:
      SUBPOOL:
      KEY:
      RESIDENCY: Determined by caller
    SIZE: See generated data
    CREATED BY: UIM
    POINTED TO BY: N/A
    SERIALIZATION: None
    FUNCTION: Maps the Switch Information Parameters
    MODULE TYPE: Bilingual Mapping Macro
    DEPENDENCIES: None
    RESTRICTIONS: For HCD and UIM use only
    PROCESSOR: Assembler H and PL/AS Compiler
    INVOCATION:
       PLAS: %DCL SIPDEF CHAR
                 %SIPDEF='value'
                     value = 'BDY(WORD)', 'BASED' or
                             'BASED(xxxxxxxx)'
                 %INCLUDE SYSLIB(CBDZSIP)
                 If SIPDEF is not declared and initialized, the
                 default is 'BDY(WORD)'.
       ASSEMBLER:
                  CBDZSIP CUL=1,SWL=1,TYPE=DSECT
                  CUL (number of entries in switch control unit
                  list). This list contains one entry for each
                  control unit which can be defined as "switch"
                  control unit. Defaults to one.
                  SWL (number of attachable switches) parameter
                  defaults to one. Must be set to the number of
                  switches to be contained in the attachable switch
                  list.
                  TYPE=DSECT causes the generation of the mapping
                  structure for the attachable switch list
    CHANGE ACTIVITY:
      $L7=SWITCH, HCSH301 910112 BOEB: Switch Support
```

Table 441. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		$H3=HCD, HCSH501 931215 BOEB: CBY support $L1=ISD, HCSH521 941108 BBWA: New hardware support $01=OW14073,HCSH521 950908 BBWA: Fix SIPASWLL $L2=FIBRE, HCS6051 971222 BBEI: FTV support $L3=WINTPK, HCS6051 990324 BBEI: Winterpark support $L4=OPEN, HCS6091 990709 BBEI: Open switch support $L5=CHECK1, HCS6091 991005 REDDE: Test two connections END OF SPECIFICATIONS %GOTO SIP01; Switch Information Parameters (SIP)			WS
0	(0)	SIGNED	4	SIP(0)	CU Information Parameters
0	(0)	CHARACTER	4	SIPID	SIP identifier ('SIP ')
4	(4)	ADDRESS	1	SIPVER	SIP version number
5	(5)	BITSTRING	1	SIPFLAG	Flag byte
		1...		SIPFDMOD	"X'80'" .. This model is the default model for this switch
		.1..		SIPFOPEN	"X'40'" .. Open switch, i.e. no special validation done
		..1.		SIPFCHK2	"X'20'" .. Check connection to a system via 2 paths
6	(6)	ADDRESS	1	SIPATYPE	Switch type
6	(6)	X'0'	0	SIPATESC	"0" - ESCON type
6	(6)	X'1'	0	SIPATFIC	"1" - FICON type
7	(7)	BITSTRING	9		Reserved
16	(10)	CHARACTER	12	SIPUNMD(0)	Switch type and model
16	(10)	CHARACTER	8	SIPUNIT	.. Type
24	(18)	CHARACTER	4	SIPMODL	.. Model number (binary zero if not present)
28	(1C)	BITSTRING	4		Reserved
		Attachment Information			
32	(20)	BITSTRING	4	SIPATTT	Attachment type
		EQU X'80000000' .. Reserved EQU X'40000000' .. Reserved			
		....		SIPATCNC	"X'20000000'" .. attachable to ESCON channel (TYPE=CNC)
		....		SIPATCTC	"X'10000000'" .. attachable to ESCON CTC
		....		SIPATCVC	"X'08000000'" .. attachable to CVC channel (ESCON converter)
		....		SIPATIOC	"X'04000000'" .. attachable to IOC channel
		EQU X'02000000' .. Reserved EQU X'01000000' .. Reserved			
32	(20)	BITSTRING	0	SIPATCBY	"X'00800000'" .. attachable to CBY channel
		EQU X'00400000' .. Reserved EQU X'00200000' .. Reserved			
32	(20)	BITSTRING	0	SIPATFC	"X'00040000'" .. attachable to FC channel

Table 441. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	BITSTRING	0	SIPATFCV	"X'00020000'" .. attachable to FCV channel
36	(24)	ADDRESS	4	SIPSWLC	Count of switch types and models in list
40	(28)	ADDRESS	4	SIPSWLP	Pointer to attachable switch list
44	(2C)	ADDRESS	4	SIPCULC	Count of switch control unit type/models in list
48	(30)	ADDRESS	4	SIPCULP	Pointer to switch control unit type/models in list
52	(34)	ADDRESS	4	SIPCHPC	Count of CHPID types with CHPID related information
56	(38)	ADDRESS	4	SIPCHPP	Pointer to CHPID type related information
The following bitmaps define the port characteristics o Control unit port usage mask o support mask (maximum port range) o minimum port range o CHPID attachment mask o Control unit attachment mask o Switch attachment mask					
60	(3C)	BITSTRING	32	SIPCUPUM	Control unit port usage mask indicates if the port can be used as control unit port (CUP)
92	(5C)	BITSTRING	32	SIPPOSUP	Port support mask, indicates if the port is supported by the switch
124	(7C)	BITSTRING	32	SIPPOMIN	Minimum port range, indicates if the port belongs to the minimum port range
156	(9C)	BITSTRING	32	SIPPOCHP	CHPID attachment mask, indicates if the port allows that a CHPID can be attached to the port
188	(BC)	BITSTRING	32	SIPPOCU	Control unit attachment mask, indicates if the port allows that a control unit can be connected to it
220	(DC)	BITSTRING	32	SIPPOSW	Switch attachment mask, indicates if the port allows the attachment of another switch
The following array maps the attachable switch list. If more than one switch exists which can be attached to the switch, described by this SIP, you must code SWL=n on the macro statement where 'n' is the number of switches.					
252	(FC)	SIGNED	4	SIPASWL(0)	Attachable switch list
252	(FC)	BITSTRING	12		Switch type/model
The following array maps the switch control unit list. Each entry defines a control unit, by type and model, which can be defined as "switch" control unit. You must code CUL=n on the macro statement where 'n' is the number of switch control units.					
264	(108)	SIGNED	4	SIPCULST(0)	Switch control unit list
264	(108)	BITSTRING	12		Switch control unit type/models

Table 441. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
The following array maps the CHPID type related connection information.					
276	(114)	SIGNED	4	SIPCPLST(0)	CHPID type related connection information
276	(114)	BITSTRING	80		CHPID type related entry

Table 442. Cross Reference for CBDZSIP

Name	Offset	Hex Tag
SIP	0	
SIPASWL	FC	
SIPATCBY	20	800000
SIPATCNC	20	0
SIPATCTC	20	0
SIPATCVC	20	0
SIPATESC	6	0
SIPATFC	20	40000
SIPATFCV	20	20000
SIPATFIC	6	1
SIPATIOC	20	0
SIPATTT	20	0
SIPATYPE	6	
SIPCHPC	34	
SIPCHPP	38	
SIPCPLST	114	
SIPCULC	2C	
SIPCULP	30	
SIPCULST	108	
SIPCUPUM	3C	0
SIPFCHK2	5	20
SIPFDMOD	5	80
SIPFLAG	5	0
SIPFOPEN	5	40
SIPID	0	E2C9D740
SIPMODL	18	40404040
SIPPOCHP	9C	0
SIPPOCU	BC	0
SIPPOMIN	7C	0
SIPPOSUP	5C	0
SIPPOSW	DC	0
SIPSWLC	24	
SIPSWLP	28	
SIPUNIT	10	40404040
SIPUNMD	10	
SIPVER	4	

Chapter 94. CBDZUCA Information

CBDZUCA Programming Interface Information

CBDZUCA is a programming interface.

CBDZUCA Heading Information

Common Name:	UIM Communication Area
Macro ID:	CBDZUCA
DSECT Name:	UCA
Owning Component:	Hardware Configuration Definition (SC1XL)
Eye-Catcher ID:	UIM Offset: 0 Length: 4
Storage Attributes:	Main Storage: Obtained by caller Data Space: SUBPOOL AND KEY: Residency: Determined by caller
Size:	164 bytes
Created by:	UIM and other HCD routines
Pointed to by:	N/A
Serialization:	None
Function:	Maps the UIM Communication Area

CBDZUCA mapping

Table 443. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

Table 444. Structure UCA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UCA	UIM Communication Area
0	(0)	CHARACTER	4	UCAID	UCA identifier
4	(4)	BITSTRING	1	UCAVER	UCA version number
		1		UCAVERN	"X'01'" .. Version number X'01'
		.... ..1.		UCAVER2	"X'02'" .. Version number X'02'
		11		UCAVER3	"X'03'" .. Version number X'03'
		.... .1..		UCAVER4	"X'04'" .. Version number X'04'
4	(4)	X'4'	0	UCAVERC	"UCAVER4" .. Current version number
5	(5)	BITSTRING	3		Reserved
8	(8)	ADDRESS	4	UCACPVTP	CPVT Address
		UIM Service Routine Addresses			
12	(C)	ADDRESS	4	UCADCTP	DCT Build Routine address
16	(10)	ADDRESS	4	UCADFTP	DFT Build Routine address
20	(14)	ADDRESS	4	UCAGITP	GIT Build Routine address

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Table 444. Structure UCA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	ADDRESS	4	UCAUITP	UIT Build Routine address
28	(1C)	ADDRESS	4	UCACITP	CIT Build Routine address
32	(20)	ADDRESS	4	UCAUGNP	Update generic name Routine addr
36	(24)	ADDRESS	4	UCADEVP	Device Look-up Routine address
40	(28)	ADDRESS	4	UCASITP	SIT Build Routine address
44	(2C)	ADDRESS	4	(3)	Reserved, must be zero
		General Service Routine Addresses			
56	(38)	ADDRESS	4	UCAMGETM	GETMAIN Service Routine address
60	(3C)	ADDRESS	4	UCAMPPDS	Push/Pop Diagnostic Stack Routine address
64	(40)	ADDRESS	4	UCAMMSG	Message Routine address
68	(44)	ADDRESS	4	UCATRCEP	Address of trace service routine
72	(48)	ADDRESS	4	(6)	Reserved, must be zero
		UIM Interface Information			
96	(60)	ADDRESS	4	UCAIODVP	IODEVICE internal text record address
100	(64)	BITSTRING	1	UCAUIMRT	UIM request type
		1		UCARINIT	"X'01'" .. Initialization request
		.... ..1.		UCARDFTB	"X'02'" .. DFT build request
		11		UCAREOD	"X'03'" .. End of data processing
		.... .1..		UCARADDR	"X'04'" .. Device Number check
		.... .1.1		UCARPARM	"X'05'" .. Parameter check
		.... .11.		UCARFEAT	"X'06'" .. Feature check
		.... .111		UCARUADD	"X'07'" .. Unit Address check
101	(65)	BITSTRING	1	UCAFLAG1	Flags set by UIMs
		1...		UCAEODAT	"X'80'" .. UIM should be called again to perform end of data checking
102	(66)	BITSTRING	1		Reserved, must be zero
103	(67)	BITSTRING	1	UCAOSTP	OS type for which parameter and feature checks have to be performed
		....		UCAMVS	"X'00'" .. MVS
		1		UCAVM	"X'01'" .. VM
104	(68)	ADDRESS	4	UCAUSER	UIM user value for device
108	(6C)	SIGNED	2	UCAPID	Identifier of the parameter where the message issued by a UIM belongs to
110	(6E)	SIGNED	2	UCAPPOS	Position of feature in feature bitstring where the message issued by a UIM belongs to
112	(70)	SIGNED	4	UCARETC	Return Code, set by UIM
112	(70)	X'0'	0	UCARCOK	"0" .. OK, everything alright
112	(70)	X'4'	0	UCARWARN	"4" .. Warning issued
112	(70)	X'8'	0	UCARCERR	"8" .. Error occurred
116	(74)	CHARACTER	32		Reserved, must be zero
		DFT/UCB Build Information			
148	(94)	ADDRESS	4	UCADDSP	Address of UCB device dependent segment information

Table 444. Structure UCA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
152	(98)	ADDRESS	4	UCADDEP	Address of UCB device dependent extension information
156	(9C)	ADDRESS	4	UCADCEP	Address of UCB device class extension information
160	(A0)	CHARACTER	4		Reserved, must be zero
160	(A0)	X'A4'	0	UCALENG	"*-UCA" Length of control block
The following constants are used to determine the support level HCD provides for the UIMs					
160	(A0)	X'2'	0	UCASLSW	"UCAVER2" Lowest UCA version number that supports switches
160	(A0)	X'3'	0	UCASLSE	"UCAVER3" UCA version number 3
160	(A0)	X'4'	0	UCASLSH	"UCAVER4" Lowest UCA version number that supports SHARK

Table 445. Cross Reference for CBDZUCA

Name	Offset	Hex Tag
UCA	0	
UCACITP	1C	
UCACPVTP	8	
UCADCEP	9C	
UCADCTP	C	
UCADDEP	98	
UCADDSP	94	
UCADEVP	24	
UCADFTP	10	
UCAEODAT	65	80
UCAFLAG1	65	
UCAGITP	14	
UCAID	0	
UCAIODVP	60	
UCALENG	A0	A4
UCAMGETM	38	
UCAMMSG	40	
UCAMPPDS	3C	
UCAMVS	67	0
UCAOSTP	67	
UCAPID	6C	
UCAPPOS	6E	
UCARADDR	64	4
UCARCERR	70	8
UCARCOK	70	0
UCARDFTB	64	2
UCAREOD	64	3
UCARETC	70	
UCARFEAT	64	6
UCARINIT	64	1
UCARPARM	64	5
UCARUADD	64	7

Table 445. Cross Reference for CBDZUCA (continued)

Name	Offset	Hex Tag
UCARWARN	70	4
UCASITP	28	
UCASLSE	A0	3
UCASLSH	A0	4
UCASLSW	A0	2
UCATRCEP	44	
UCAUGNP	20	
UCAUIMRT	64	
UCAUITP	18	
UCAUSER	68	
UCAVER	4	
UCAVERC	4	4
UCAVERN	4	1
UCAVER2	4	2
UCAVER3	4	3
UCAVER4	4	4
UCAVM	67	1

Chapter 95. CBDZUIP Information

CBDZUIP Programming Interface Information

CBDZUIP is a programming interface.

CBDZUIP Heading Information

Common Name:	Unit Information Parameters
Macro ID:	CBDZUIP
DSECT Name:	UIP
Owning Component:	Hardware Configuration Definition (SC1XL)
Eye-Catcher ID:	UIP Offset: 0 Length: 4
Storage Attributes:	Main Storage: Obtained by UIM Residency: Determined by caller
Size:	232 bytes
Created by:	UIM
Pointed to by:	N/A
Serialization:	NONE
Function:	Maps the Unit Information Parameters.

CBDZUIP mapping

Table 446. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
Unit Information Parameters				WS	
0	(0)	SIGNED	4	UIP(0)	Unit Information Parameters
UIP Header					
0	(0)	SIGNED	4	UIPGHDS(0)	UIP Header Section
0	(0)	CHARACTER	4	UIPGID	Control block identifier ("UIP ")
4	(4)	ADDRESS	1	UIPGVER	UIP version number
		1		UIPGVER1	"X'01'" .. Version 1 of UIP
5	(5)	BITSTRING	1		Reserved
6	(6)	ADDRESS	2	UIPGELEN	Entire Length of UIP
General Section					
8	(8)	SIGNED	4	UIPGENS(0)	UIP General Section
Header of General Section					
8	(8)	ADDRESS	2	UIPGLEN	Length of general section
10	(A)	ADDRESS	1	UIPGTYP	Type of section
		1111 1111		UIPGEN	"X'FF'" .. 255 for general section
11	(B)	BITSTRING	1		Reserved

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Table 446. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	Body of General Section				
12	(C)	CHARACTER	12	UIPGUNMD(0)	Unit and model
12	(C)	CHARACTER	8	UIPGUNIT	Unit name
20	(14)	BITSTRING	4	UIPGMODL	Model number (must be binary zero if model is not specified)
24	(18)	ADDRESS	1	UIPGDESI	Index to unit description in associated UDT
25	(19)	ADDRESS	1	UIPGGRP	Device type grouping
25	(19)	X'1'	0	UIPGDASD	"1" .. DASD
25	(19)	X'2'	0	UIPGTAPE	"2" .. Tape
25	(19)	X'3'	0	UIPGCLUS	"3" .. Cluster Controller
25	(19)	X'4'	0	UIPGCOMM	"4" .. Communications
25	(19)	X'5'	0	UIPGMICR	"5" .. MICR/OCR
25	(19)	X'6'	0	UIPGGRPH	"6" .. Graphics
25	(19)	X'7'	0	UIPGPRT	"7" .. Printer
25	(19)	X'8'	0	UIPGCARD	"8" .. Card reader/punch
25	(19)	X'9'	0	UIPGDISP	"9" .. Display
25	(19)	X'A'	0	UIPGTPRT	"10" .. Terminal printer
25	(19)	X'FF'	0	UIPGOTHR	"255" .. Other
26	(1A)	BITSTRING	2		Reserved
28	(1C)	ADDRESS	4	UIPGUSER	UIM user value for device
32	(20)	CHARACTER	1	UIPGDFLT(0)	Default values for replication information
32	(20)	ADDRESS	2	UIPGDDRF	Default replication factor
34	(22)	ADDRESS	2	UIPGDLRF	Minimum replication factor
36	(24)	ADDRESS	2	UIPGDHRF	Maximum replication factor (if binary zero, the value enforced by the dialog, is taken)
38	(26)	ADDRESS	2	UIPGDNC	Count of device numbers to generate for each device if multiple-exposure device
40	(28)	ADDRESS	2	UIPGDNI	Interval between device numbers when multiple device numbers are generated for the same device (valid only when the value of UIPDNC is greater than one)
42	(2A)	BITSTRING	1	UIPGRFLG	Replication factor flags
		1...		UIPGFMEX	"X'80'" .. device is multi-exposure device
		.1..		UIPGFGRP	"X'40'" .. device builds a group of devices
		..1.		UIPGFPAV	"X'20'" .. If set, indicates that device is a PAV device
		...1		UIPGFBAS	"X'10'" .. If set, indicates that device is a PAV-base device. UIPGFPAV is also set.
		.... 1...		UIPGFALI	"X'08'" .. If set, indicates that device is a PAV-alias device. UIPGFPAV is also set.
43	(2B)	BITSTRING	1	UIPGPFLG	Processing flag
		1...		UIPGFIGN	"X'80'" .. device to be ignored by NOCHECK
44	(2C)	ADDRESS	1	UIPGDFLG	Default Flag byte

Table 446. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		UIPGFTOU	"X'80'" .. TIMEOUT=NO is default
		.1..		UIPGFSTA	"X'40'" .. STADET=NO is default
		1		UIPGFDMD	"X'01'" .. Device model is default
45	(2D)	ADDRESS	1	UIPGFLG2	Flag byte 2
		.... .1..		UIPGFSDY	"X'04'" .. Device is defined as a secondary
		.... ..1.		UIPGFSPC	"X'02'" .. Device is special, i.e. it can only be defined in an alternate subchannel set and is not included in an EDT
		1		UIPGFSCH	"X'01'" .. Device supports multiple subchannel sets.
46	(2E)	BITSTRING	2		Reserved
48	(30)	CHARACTER	8	UIPGATT(0)	Attachment information
48	(30)	ADDRESS	2	UIPGMNCU	maximum number of CUs a device can be attached to (if binary zero, the value enforced by the dialog, is taken)
50	(32)	BITSTRING	6		Reserved for attachment info
56	(38)	BITSTRING	1	UIPGPR	Processing Flags
		1...		UIPGFINT	"X'80'" .. Internal UIT to be built
57	(39)	BITSTRING	15		Reserved
57	(39)	X'40'	0	UIPGLN1	"*-UIPGENS" Length of general section
	MVS Section				
72	(48)	SIGNED	4	UIPMVSS(0)	UIP MVS Section
	Header of MVS Section				
72	(48)	ADDRESS	2	UIPMLEN	Length of MVS section
74	(4A)	ADDRESS	1	UIPMTYP	Type of section
		....		UIPMVS	"X'00'" .. 0 for MVS section
75	(4B)	BITSTRING	1		Reserved
	Body of MVS Section				
76	(4C)	CHARACTER	8	UIPMGNNM	Generic name of device
84	(54)	SIGNED	4	UIPMSIMC	Count of similar device list entries
88	(58)	ADDRESS	4	UIPMSIMP	Pointer to similar device list entries
92	(5C)	BITSTRING	8	UIPMRPRM	Map of parameters that are required (maps the parameters in the same way as they are mapped in the IODEVICE internal text record field IODVPRMS)
100	(64)	BITSTRING	8	UIPMOPRM	Map of parameters that are optional for this device (maps the parameters in the same way as they are mapped in the internal text record field IODVPRMS)

Table 446. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
108	(6C)	BITSTRING	8	UIPMSFEA	Map of features that are supported for this unit and model (bits map into features listed in UDTFEATL in associated UDT - valid only if IODVFFEA flag within UIPOPARM is set)
116	(74)	BITSTRING	8	UIPMDFEA	Map of features that are default for this unit and model (bits map into features listed in UDTFEATL in associated UDT - valid only if IODVFFEA flag within UIPOPARM is set)
124	(7C)	BITSTRING	8	UIPMCFEA	Map of features that are recognized for migration compatibility (bits map into features listed in UDTCOMPL in associated UDT - valid only if IODVFFEA flag within UIPOPARM is set)
132	(84)	BITSTRING	8		Reserved
140	(8C)	ADDRESS	1	UIPMDFLG	Default Flag byte
		1...		UIPMFOFF	"X'80'" .. OFFLINE=YES is default
		.1..		UIPMFGEN	"X'40'" .. UIM determines which generic name is taken after feature check (only for tapes)
		..1.		UIPMFDMD	"X'20'" .. MODEL= is default (value is taken from MODL)
141	(8D)	ADDRESS	1	UIPMFLG2	Flag byte 2
		1...		UIPMFDYC	"X'80'" .. device supports dynamic configuration
		.1..		UIPMFDVN	"X'40'" .. device supports device number > 4095
		..1.		UIPMFDSE	"X'20'" .. device allows statistics table entry to reside in 31 bit storage
		...1		UIPMFDCX	"X'10'" .. device allows device class extension to reside in 31 bit storage
		.... 1...		UIPMFUCB	"X'08'" .. device allows UCB related control blocks to reside in 31 bit storage
142	(8E)	BITSTRING	2		Reserved
144	(90)	CHARACTER	4	UIPMATT(0)	Attachment information
144	(90)	BITSTRING	1	UIPMNIPC	NIPCON device type code
145	(91)	BITSTRING	3		Reserved
148	(94)	SIGNED	4	UIPMDLFC	Count of parameter default list entries
152	(98)	ADDRESS	4	UIPMDLFP	Pointer to parameter default list entries
156	(9C)	SIGNED	4	UIPMSELC	Count of parameter selection list entries
160	(A0)	ADDRESS	4	UIPMSELP	Pointer to parameter selection list entries
164	(A4)	BITSTRING	36		Reserved

Table 446. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
200	(C8)	CHARACTER	8	UIPMDDTN	Entry point name of the Device Descriptor Table (DDT)
208	(D0)	ADDRESS	4	UIPMMLTP	Address of list of MLT names
212	(D4)	SIGNED	4	UIPMMLTC(0)	Count of MLT names in list
212	(D4)	SIGNED	4	UIPMMLTL	Count of MLT names in list
212	(D4)	X'90'	0	UIPMLN1	"*-UIPMVSS" Length of MVS section
212	(D4)	X'D8'	0	UIPGELN1	"*-UIP" Length of whole UIP
The following array maps the similar device list. If a similar devices exist, you must code SIM=n on the macro statement where 'n' is the number of devices in the list.					
216	(D8)	SIGNED	4	UIPSIMIL(0)	Similar device list entries
216	(D8)	BITSTRING	16	(0)	Device type/model and reserved
216	(D8)	X'0'	0	UIPSIMLN	"*-UIPSIMIL" Length of similar device list
The following array defines the parameter defaults. If defaults exist for parameters, you must code DFLT=n on the macro statement where 'n' is the number of parameters for which defaults exist.					
216	(D8)	SIGNED	4	UIPPDFLT(0)	Default parameter list entries
216	(D8)	BITSTRING	8	(0)	
216	(D8)	X'0'	0	UIPPDFLN	"*-UIPPDFLT" Length of parameter defaults
The following array defines the parameter selection lists. If one or more selection lists exist you must code SEL=n on the macro statement, where 'n' is the number of parameters for which selection(s) are available.					
216	(D8)	SIGNED	4	UIPPSEL(0)	Parameter selection list entries
216	(D8)	BITSTRING	12	(0)	
216	(D8)	X'0'	0	UIPPSELN	"*-UIPPSEL" Length of parameter selection list entries
The following maps the list of MLT names. If n greater than one MLT lists are required, you must code MLTS=n on the macro statement.					
216	(D8)	CHARACTER	12	UIPMLTNL	List of MLT names
216	(D8)	X'C'	0	UIPMLTTL	"*-UIPMLTNL" .. Total length of MLT array.
216	(D8)	CHARACTER	8	UIPMLTNM	Module name of the Module Lists Table (MLT)
224	(E0)	BITSTRING	1	UIPMLTFL	Flags
		1...		UIPMLTOP	"X'80'" .. MLT contains module names associated with a product that provides optional support for this device
225	(E1)	CHARACTER	3		Reserved, must be zero
225	(E1)	X'C'	0	UIPMLTLN	"*-UIPMLTNM" .. Length of one entry
The following constant is used to place an identifier into the UIP.					
228	(E4)	CHARACTER	4	UIPIDNM	Constant for storage descriptor

CBDZUIP mapping

Table 447. Cross Reference for CBDZUIP

Name	Offset	Hex Tag
UIP	0	
UIPGATT	30	
UIPGCARD	19	8
UIPGCLUS	19	3
UIPGCOMM	19	4
UIPGDASD	19	1
UIPGDDRF	20	
UIPGDESI	18	
UIPGDFLG	2C	
UIPGDFLT	20	
UIPGDHRF	24	
UIPGDISP	19	9
UIPGDLRF	22	
UIPGDNC	26	
UIPGDNI	28	
UIPGELEN	6	
UIPGELN1	D4	D8
UIPGEN	A	FF
UIPGENS	8	
UIPGFALI	2A	8
UIPGFBAS	2A	10
UIPGFDMD	2C	1
UIPGFGRP	2A	40
UIPGFIGN	2B	80
UIPGFINT	38	80
UIPGFLG2	2D	
UIPGFMEX	2A	80
UIPGFPAV	2A	20
UIPGFSCH	2D	1
UIPGFSDY	2D	4
UIPGFSPC	2D	2
UIPGFSTA	2C	40
UIPGFTOU	2C	80
UIPGGRP	19	
UIPGGRPH	19	6
UIPGHDS	0	
UIPGID	0	E4C9D740
UIPGLEN	8	
UIPGLN1	39	40
UIPGMICR	19	5
UIPGMNCU	30	
UIPGMODL	14	0
UIPGOTHR	19	FF
UIPGPFLG	2B	0
UIPGPR	38	0
UIPGPRT	19	7
UIPGRFLG	2A	0
UIPGTAPE	19	2
UIPGTPRT	19	A

Table 447. Cross Reference for CBDZUIP (continued)

Name	Offset	Hex Tag
UIPGTYP	A	
UIPGUNIT	C	40404040
UIPGUNMD	C	
UIPGUSER	1C	
UIPGVER	4	
UIPGVER1	4	1
UIPIDNM	E4	E4C9D740
UIPMATT	90	
UIPMCFEA	7C	0
UIPMDDTN	C8	
UIPMDFEA	74	0
UIPMDFLG	8C	
UIPMDLFC	94	0
UIPMDLFP	98	
UIPMFDCX	8D	10
UIPMFDMD	8C	20
UIPMFDSE	8D	20
UIPMFDVN	8D	40
UIPMFDYC	8D	80
UIPMFGEN	8C	40
UIPMFLG2	8D	
UIPMFOFF	8C	80
UIPMFUCB	8D	8
UIPMGNNM	4C	40404040
UIPMLEN	48	
UIPMLN1	D4	90
UIPMLTFL	E0	
UIPMLTLN	E1	C
UIPMLTNL	D8	
UIPMLTNM	D8	
UIPMLTOP	E0	80
UIPMLTTL	D8	C
UIPMMLTC	D4	
UIPMMLTL	D4	
UIPMMLTP	D0	
UIPMNIPC	90	0
UIPMOPRM	64	0
UIPMRPRM	5C	0
UIPMSELC	9C	0
UIPMSELP	A0	
UIPMSFEA	6C	0
UIPMSIMC	54	0
UIPMSIMP	58	
UIPMTYP	4A	
UIPMVS	4A	0
UIPMVSS	48	
UIPPDFLN	D8	0
UIPPDFLT	D8	
UIPPSEL	D8	

Table 447. Cross Reference for CBDZUIP (continued)

Name	Offset	Hex Tag
UIPPSELN	D8	0
UIPSIMIL	D8	
UIPSIMLN	D8	0

Chapter 96. CBLS Information

CBLS Heading Information

Common Name:	Supervisor Control Block Length Table
Macro ID:	IHACBLS
DSECT Name:	CBLS
Owning Component:	Supervisor Control (SC1C5)
Eye-Catcher ID:	CBLS Offset: 0 Length: 4
Storage Attributes:	Residency: Nucleus Resident (Read only Section)
Size:	OFFSET OF CBLEND MINUS THE OFFSET OF CBLS
Created by:	IEAVCBLS
Pointed to by:	SVTCBLS ECVTCBLS
Serialization:	None.
Function:	Contains the lengths and level numbers of various control blocks.

CBLS mapping

Table 448. Structure CBLS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	208	CBLS	
0	(0)	CHARACTER	4	CBLSCBLS	CBLS ACRONYM
4	(4)	CHARACTER	2	CBLR004	RESERVED
6	(6)	SIGNED	2	CBLCBLSL	Length of the CBLS
8	(8)	SIGNED	2	CBLASCB	LENGTH OF THE ASCB
10	(A)	SIGNED	2	CBLASCBL	ASCB LEVEL NUMBER
12	(C)	SIGNED	2	CBLTCB	TOTAL LENGTH OF THE TCB (PREFIX + MAIN + EXTENSION)
14	(E)	SIGNED	2	CBLTCBP	LENGTH OF THE TCB PREFIX
16	(10)	SIGNED	2	CBLTCBM	LENGTH OF MAIN SECTION OF THE TCB
18	(12)	SIGNED	2	CBLTCBL	TCB LEVEL NUMBER
20	(14)	SIGNED	2	CBLIHSA	LENGTH OF THE IHSA
22	(16)	SIGNED	2	CBLIHSAL	IHSA LEVEL NUMBER
24	(18)	SIGNED	2	CBLWPRB	LENGTH OF THE WPRB
26	(1A)	SIGNED	2	CBLWPRBL	WPRB LEVEL NUMBER
28	(1C)	SIGNED	2	CBLXSB	LENGTH OF THE XSB
30	(1E)	SIGNED	2	CBLXSBL	XSB LEVEL NUMBER
32	(20)	SIGNED	2	CBLSTKH	LENGTH OF THE STACK HEADER
34	(22)	SIGNED	2	CBLSTKHL	STKH LEVEL NUMBER
36	(24)	SIGNED	2	CBLASXB	LENGTH OF THE ASXB
38	(26)	SIGNED	2	CBLASXBL	ASXB LEVEL NUMBER
40	(28)	SIGNED	2	CBLSTCB	LENGTH OF THE STCB
42	(2A)	SIGNED	2	CBLSTCBL	STCB LEVEL NUMBER
44	(2C)	SIGNED	2	CBLESSA	Length of ESSA
46	(2E)	SIGNED	2	CBLR02E	RESERVED,WAS CBLVSSAL

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Table 448. Structure CBLS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	SIGNED	2	CBLASSB	LENGTH OF THE ASSB
50	(32)	SIGNED	2	CBLASSBL	ASSB LEVEL NUMBER
52	(34)	SIGNED	2	CBLNSSA	LENGTH OF THE NSSA
54	(36)	SIGNED	2	CBLNSSAL	NSSA LEVEL NUMBER
56	(38)	SIGNED	2	CBLSXSB	LENGTH OF THE SXSB
58	(3A)	SIGNED	2	CBLSXSBL	SXSB LEVEL NUMBER
60	(3C)	SIGNED	2	CBLWEB	LENGTH OF THE WEB
62	(3E)	SIGNED	2	CBLWEBL	WEB LEVEL NUMBER
64	(40)	SIGNED	2	CBLWEE	LENGTH OF THE WEE
66	(42)	SIGNED	2	CBLWEEL	WEE LEVEL NUMBER
68	(44)	SIGNED	2	CBLNSQA	LENGTH OF THE NSQA
70	(46)	SIGNED	2	CBLNSQAL	NSQA LEVEL NUMBER
72	(48)	CHARACTER	4	CBLR048	RESERVED
76	(4C)	SIGNED	2	CBLLDAX	Length(LDAX)
78	(4E)	SIGNED	2	CBLPSAL	Length of PSA being used (this is 4K for non-ESAME, 8K for ESAME)
80	(50)	SIGNED	2	CBLSLEN	Length(SDWA)
82	(52)	SIGNED	2	CBLSPTRS	Length(SDWAPTRS)
84	(54)	SIGNED	2	CBLSRC1	Length(SDWARC1)
86	(56)	SIGNED	2	CBLSRC2	Length(SDWARC2)
88	(58)	SIGNED	2	CBLSRC3	Length(SDWARC3)
90	(5A)	SIGNED	2	CBLSRC4	Length(SDWARC4)
92	(5C)	SIGNED	2	CBLSNRC1	Length(SDWANRC1)
94	(5E)	SIGNED	2	CBLSNRC2	Length(SDWANRC2)
96	(60)	SIGNED	2	CBLSNRC3	Length(SDWANRC3)
98	(62)	SIGNED	2	CBLSRLNS	Length(all recordable)
100	(64)	SIGNED	2	CBLSNLNS	Length(all non-recordable)
102	(66)	SIGNED	2	CBLSMLNP	SDWA with only recordable but no "PTRS"
104	(68)	SIGNED	2	CBLSMLEN	SDWA with only recordable
106	(6A)	SIGNED	2	CBLSTLEN	SDWA with all extensions
108	(6C)	SIGNED	2	CBLSOLEN	SDWA with all extensions except ESAME (this is for RTM2 below-16M SDWA)
110	(6E)	SIGNED	2	CBLFWALN	FRR workarea length
112	(70)	SIGNED	2	CBLLCCAL	LCCA
114	(72)	SIGNED	2	CBLPCCAL	PCCA
116	(74)	SIGNED	2	CBLALEL	ALE
118	(76)	SIGNED	2	CBLDUCTL	DUCT
120	(78)	SIGNED	2	CBLLCCXL	LCCX
122	(7A)	SIGNED	2	CBLR07A	Reserved - Was PCCAVT length
124	(7C)	SIGNED	2	CBLRTMC	RTMC within IHART1W
126	(7E)	SIGNED	2	CBLSCWA	SCWA
128	(80)	SIGNED	2	CBLSCWA1	SCWA1
130	(82)	SIGNED	2	CBLSCWA2	SCWA2
132	(84)	SIGNED	2	CBLLAA	Length of LAA
134	(86)	SIGNED	2	CBLSTLAA	Length of LAA+STCB
136	(88)	SIGNED	2	CBLSCWA3	SCWA3
138	(8A)	SIGNED	2	CBLSLCCC	LCCC Length
140	(8C)	SIGNED	2	CBLWUQ	Length of WUQ

Table 448. Structure CBLS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
142	(8E)	SIGNED	2	CBLRTM2BELOW	Length of RTM2's storage below the 16M line
144	(90)	SIGNED	2	CBLRTM2SHORTABOVE	Length of RTM2's storage above the 16M line when USAVE is not included
146	(92)	SIGNED	2	CBLRTM2ABOVE	Length of RTM2's storage above the 16M line
148	(94)	SIGNED	2	CBLSLCEB	LCEB Length
150	(96)	SIGNED	2	CBLSLOCKINST_COMM	Lock instrumentation common block length
152	(98)	SIGNED	2	CBLSLOCKINST_UNIQ_CML	Lock instrumentation unique CML block length
154	(9A)	SIGNED	2	CBLSLOCKINST_AREA	Lock instrumentation area length
156	(9C)	SIGNED	2	CBLECCC	ECCC length
158	(9E)	SIGNED	2	CBLSPERFINST_BB	PerfInst_BB length
160	(A0)	SIGNED	2	CBLSLCCC_SIGP_BLOCK	LCCC_SIGP_Block length
162	(A2)	SIGNED	2	CBLSLCCC_SIGP_COUNTERS	LCCC_SIGP_Counters length
164	(A4)	SIGNED	2	CBLSLCCC_OTHER_COUNTERS	LCCC_Other_Counters length
166	(A6)	SIGNED	2	CBLAWUQ	AWUQ_Header length (does not include the size of the system and affinity nodes)
168	(A8)	SIGNED	2	CBLAWUQ_NODE	AWUQ_Node length
170	(AA)	SIGNED	2	CBLR0AA	Reserved
172	(AC)	SIGNED	2	CBLAWUQ_NUMSYSNODES	Number of system nodes
174	(AE)	SIGNED	2	CBLSRC5	Length(SDWARC5)
176	(B0)	SIGNED	2	CBLCPUD	Length of CPUD (does not include CPUX)
178	(B2)	SIGNED	2	CBLCPUX	Length of CPUX (does not include CPUD)
180	(B4)	SIGNED	2	CBLTOBPE	Length of 1 TOBPE entry
182	(B6)	SIGNED	2	CBLCORE	Length of a core control block
184	(B8)	SIGNED	2	CBLSLCCC_TX_COUNTERS	LCCC_TX_Counters length
186	(BA)	SIGNED	2	CBLJAFBASCB	Length of the ASCB accounting block
188	(BC)	SIGNED	2	CBLJAFBENCB	Length of the ENCB accounting block
190	(BE)	SIGNED	2	CBLJAFBASCBNUMFIELDS	Number of fields in the ASCB accounting block
192	(C0)	SIGNED	2	CBLJAFBENCBNUMFIELDS	Number of fields in the ENCB accounting block
194	(C2)	SIGNED	2	CBL_MT_COUNTERS	Length of area pointed to by CORE_MT_COUNTERSADDR
196	(C4)	SIGNED	2	CBL_MT_COUNTERS_NUM	Number of counters supported
198	(C6)	SIGNED	2	CBLMAXPETSINPMCPOOLENTRY	Number of PET entries that will fit in a PME CPOOL element (for both SRB and TCB PME CPOOLs)
200	(C8)	SIGNED	2	CBLMAXUNAUTHPETS	Maximum number of unauthorized PETs allowed for an address space. This is the number of PEET entries that can be obtained via two PEST entries
202	(CA)	CHARACTER	6	CBLR0CA	Reserved
208	(D0)	CHARACTER	0	CBLEND	END OF CBLS

CBLS mapping

Table 449. Cross Reference for CBLS

Name	Offset	Hex Tag
CBL_MT_COUNTERS	C2	
CBL_MT_COUNTERS_NUM	C4	
CBLALEL	74	
CBLASCB	8	
CBLASCBL	A	
CBLASSB	30	
CBLASSBL	32	
CBLASXB	24	
CBLASXBL	26	
CBLAWUQ	A6	
CBLAWUQ_NODE	A8	
CBLAWUQ_NUMSYSNODES	AC	
CBLCBLSL	6	
CBLCORE	B6	
CBLCPUD	B0	
CBLCPUX	B2	
CBLDUCTL	76	
CBLECCC	9C	
CBLEND	D0	
CBLESSA	2C	
CBLFWALN	6E	
CBLIHSA	14	
CBLIHSAL	16	
CBLJAFBASCB	BA	
CBLJAFBASCBNUMFIELDS	BE	
CBLJAFBENCB	BC	
CBLJAFBENCBNUMFIELDS	C0	
CBLLAA	84	
CBLLCCAL	70	
CBLLCCXL	78	
CBLLDAX	4C	
CBLMAXPETSINPMCPOOLENTRY	C6	
CBLMAXUNAUTHPETS	C8	
CBLNSQA	44	
CBLNSQAL	46	
CBLNSSA	34	
CBLNSSAL	36	
CBLPCCAL	72	
CBLPSAL	4E	
CBLRTMC	7C	
CBLRTM2ABOVE	92	
CBLRTM2BELOW	8E	
CBLRTM2SHORTABOVE	90	
CBLR0AA	AA	
CBLR0CA	CA	
CBLR004	4	
CBLR02E	2E	
CBLR048	48	
CBLR07A	7A	

Table 449. Cross Reference for CBLS (continued)

Name	Offset	Hex Tag
CBLS	0	
CBLSCBLS	0	
CBLSCWA	7E	
CBLSCWA1	80	
CBLSCWA2	82	
CBLSCWA3	88	
CBLSLCCC	8A	
CBLSLCCC_OTHER_COUNTERS	A4	
CBLSLCCC_SIGP_BLOCK	A0	
CBLSLCCC_SIGP_COUNTERS	A2	
CBLSLCCC_TX_COUNTERS	B8	
CBLSLCEB	94	
CBLSLEN	50	
CBLSLOCKINST_AREA	9A	
CBLSLOCKINST_COMM	96	
CBLSLOCKINST_UNIQ_CML	98	
CBLSMLEN	68	
CBLSMLNP	66	
CBLSNLNS	64	
CBLSNRC1	5C	
CBLSNRC2	5E	
CBLSNRC3	60	
CBLSOLEN	6C	
CBLSPERFINST_BB	9E	
CBLSPTRS	52	
CBLSRC1	54	
CBLSRC2	56	
CBLSRC3	58	
CBLSRC4	5A	
CBLSRC5	AE	
CBLSRLNS	62	
CBLSTCB	28	
CBLSTCBL	2A	
CBLSTKH	20	
CBLSTKHL	22	
CBLSTLAA	86	
CBLSTLEN	6A	
CBLSXSB	38	
CBLSXSBL	3A	
CBLTCB	C	
CBLTCBL	12	
CBLTCBM	10	
CBLTCBP	E	
CBLTOBPE	B4	
CBLWEB	3C	
CBLWEBL	3E	
CBLWEE	40	
CBLWEEL	42	
CBLWPRB	18	

Table 449. Cross Reference for CBLS (continued)

Name	Offset	Hex Tag
CBLWPRBL	1A	
CBLWUQ	8C	
CBLXSB	1C	
CBLXSBL	1E	

Chapter 97. CDE Information

CDE Programming Interface Information

CDE is a programming interface.

CDE Heading Information

Common Name:	Contents Directory Entry
Macro ID:	IHACDE
DSECT Name:	CDE
Owning Component:	Contents Supervision (SC1CJ)
Eye-Catcher ID:	none
Storage Attributes:	Subpool: 255 Key: 0
Size:	32 bytes
Created by:	CSVGETMD
Pointed to by:	CDCHAIN field of the CDE data area CDXLMJP field of the CDE data area FTCHX_CdeLpdeAddr field of the CSVFTCHX data area LLECDPT field of the LLE data area RBCDE1 field of the RB data area TCBJPQ field of the TCB data area
Serialization:	Local Lock.
Function:	The CDE contains information about the location, size and other attributes of a particular module currently in use. The Link Pack Directory Entry (LPDE) and the Contents Directory Entry (CDE) map identically except for the last eight bytes of the LPDE. The last eight bytes of a MAJOR LPDE contain extent information. The corresponding area in a MINOR LPDE contains the MAJOR NAME. The CDE lacks the last eight bytes. A MAJOR CDE points to an EXTENT LIST (XTLST). A MINOR CDE points to the CDE for the MAJOR NAME. Fields which are only meaningful in a CDE are set to zero in an LPDE. The CDELPDE bit can be used to differentiate between a CDE and an LPDE.

CDE mapping

Table 450. Structure CDENTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CDENTRY	
0	(0)	SIGNED	4	CDCHAIN	- Address of next CDE in queue (either JPAQ or LPAQ)

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Table 450. Structure CDENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	SIGNED	4	CDRRBP	- If the module is REENTERABLE, this field contains the address of the last RB that controlled the module. If the module is SERIALLY REUSABLE, this field contains the address of the RB at the top of the WAITING (RBPGMQ) QUEUE. If the module was requested ONLY through LOAD macro instructions, CONTAINS ZERO.
8	(8)	CHARACTER	8	CDNAME	- 8-byte name
16	(10)	SIGNED	4	CDENTPT	- Module's relocated Entry Point address
		1...		CDEMODE	"X'80'" Routine runs in 31 bit mode
16	(10)	BITSTRING	3		Bytes 0-2 of CDENTPT
19	(13)	BITSTRING	1	CDENTPT3	Byte 3 of CDENTPT
		1		CDEMOD64	"X'01'" Routine runs in 64 bit mode
20	(14)	SIGNED	4	CDXLMJP	- Extent list address or Major CDE address If this CDE is a MINOR
24	(18)	SIGNED	2	CDUSE	- Value contains the total module use count
26	(1A)	BITSTRING	1	CDATTRB	- Flag byte
		1...		CDEOM	"X'80'" - ON=Delete module at memory termination
		.1..		CDIDENTY	"X'40'" - ON = CDE built by IDENTIFY @02C
		..1.		CDRACDTY	"X'20'" - ON = MODULE WAS LOADED BY 'DIRTY' TASK
		...1		CDCDEX	"X'10'" - ON = CDE extension exists
		.... 1...		CDELPDE	"X'08'" - OFF=CDE, ON=LPDE (Used to distinguish a CDE from an LPDE)
		.... .1..		CDGLOBAL	"X'04'" - ON = Module LOADED to GLOBAL
		.... ..1.		CDCONTMN	"X'02'" - ON = Module is contaminated. A module is considered contaminated if it is from an APF authorized library, but was fetched into subpool 251 (it is not reentrant) by a NON authorized caller. @ZA84179
		1		CDRACF	"X'01'" - Used by external security manager. (For RACF: The user has EXECUTE authority rather than READ authority to the module.) @YA22541
27	(1B)	BITSTRING	1	CDSP	Module SUBPOOL ID
28	(1C)	BITSTRING	1	CDATTR	- Attribute flags
		1...		CDNIP	"X'80'" - Module loaded by NIP or FLPA/MLPA or dynamic LPA

Table 450. Structure CDENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CDNIC	"X'40'" - Module is in process of being loaded
		..1.		CDREN	"X'20'" - Module is REENTERABLE
		...1		CDSER	"X'10'" - Module is SERIALLY REUSABLE
		.... 1...		CDNFN	"X'08'" - Module is NOT REUSABLE (NON-FUNCTIONAL)
		.... .1..		CDMIN	"X'04'" - This is a MINOR CDE
		.... ..1.		CDJPA	"X'02'" - Module is in JOB PACK AREA
		1		CDNLR	"X'01'" - Module is NOT LOADABLE-ONLY
29	(1D)	BITSTRING	1	CDATTR2	- Second attribute field
		1...		CDSPZ	"X'80'" - Module is in SUBPOOL ZERO
		.1..		CDREL	"X'40'" - Module is INACTIVE and MAY BE RELEASED
		..1.		CDXLE	"X'20'" - EXTENT LIST has been built for module. Main storage occupied by module is described therein.
		...1		CDRLC	"X'10'" - This CDE contains a MINOR ENTRY POINT ADDRESS that has been relocated by the PROGRAM FETCH routine.
		.... 1...		CDEANYM	"X'08'" Routine runs in ANY mode
		.... .1..		CDOLY	"X'04'" - Module is in OVERLAY format A27026
		.... ..1.		CDSYSLIB	"X'02'" - AUTHORIZED LIBRARY module
		1		CDAUTH	"X'01'" - PROGRAM AUTHORIZATION FLAG ICB360
30	(1E)	BITSTRING	1	CDATTR3	- 3rd attribute field
		1...		CDPATHN	"X'80'" - ON = The module represented by this CDE has an associated OpenMVS path name. The CDNAME field contains an EBCDIC value that contents supervision hashes to locate the CDE extension which contains the path name.
		.1..		CDPML	"X'40'" - OFF = PML was not complete when module was loaded ON = PML was up when the module was loaded Used by the CSV delete process to determine which DFP interface CSV should use to delete the module(s).
		..1.		CDESPLIT	"X'20'" - Split RMODE program object
		...1		CDSYSHLB	"X'10'" - HFS System Shared Library Module
		.... 1...		CDELPOK	"X'08'" - LongParms OK (was CDERTLS)

Table 450. Structure CDENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		CDEDYLPA	"X'04'" - Dynamic LPA. Only on for CDE on active LPA queue
		.... ..1.		CDEPROTP	"X'02'" - For dynamic LPA, only whole pages are page-protected, as opposed to the entire module. Or module added by CSVDYLPA BYADDR=YES so page protection state not known. Or refreshable module when REFRPROT was in effect.
31	(1F)	BITSTRING	1	CDATTR4	- RESERVED

Table 451. Cross Reference for CDE

Name	Offset	Hex Tag
CDATTR	1C	
CDATTRB	1A	
CDATTR2	1D	
CDATTR3	1E	
CDATTR4	1F	
CDAUTH	1D	1
CDCDEX	1A	10
CDCHAIN	0	
CDCONTMN	1A	2
CDEANYM	1D	8
CDEDYLPA	1E	4
CDELPDE	1A	8
CDELPOK	1E	8
CDEMODE	10	80
CDEMOD64	13	1
CDENTPT	10	
CDENTPT3	13	
CDENTRY	0	
CDEOM	1A	80
CDEPROTP	1E	2
CDESPLIT	1E	20
CDGLOBAL	1A	4
CDIDENTY	1A	40
CDJPA	1C	2
CDMIN	1C	4
CDNAME	8	
CDNFN	1C	8
CDNIC	1C	40
CDNIP	1C	80
CDNLR	1C	1
CDOLY	1D	4
CDPATHN	1E	80
CDPML	1E	40
CDRACDTY	1A	20
CDRACF	1A	1

Table 451. Cross Reference for CDE (continued)

Name	Offset	Hex Tag
CDREL	1D	40
CDREN	1C	20
CDRLC	1D	10
CDRRBP	4	
CDSER	1C	10
CDSP	1B	
CDSPZ	1D	80
CDSYSHLB	1E	10
CDSYSLIB	1D	2
CDUSE	18	
CDXLE	1D	20
CDXLMJP	14	

Chapter 98. CIB Information

CIB Programming Interface Information

CIB is a programming interface.

CIB Heading Information

Common Name:	COMMAND INPUT BUFFER MAPPING MACRO
Macro ID:	IEZCIB
DSECT Name:	CIBNAME, CIBX
Owning Component:	MASTER SCHEDULER (SC1B8)
Eye-Catcher ID:	NONE.
Storage Attributes:	Main Storage: YES Virtual Storage: NO Auxiliary Storage: NO Subpool: 245 Key: 0 Data Space: NO Residency: BELOW 16M
Size:	VARIABLE LENGTH BUT AT LEAST 16 BYTES CIBNAME -- X'0018' bytes CIBX -- X'0030' bytes
Created by:	IEEVSTAR, IEE0703D, IEEVMNT1
Pointed to by:	COMCIBPT FIELD OF THE COM DATA AREA CHCIBP FIELD OF THE CSCB DATA AREA
Serialization:	ENQ ON MAJOR SYSIEFSD MINOR Q10
Function:	BUFFER FOR START, STOP, MODIFY AND MOUNT COMMANDS FROM CONSOLE OR TSO TERMINALS.

CIB mapping

Table 452. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	DBL WORD	8	(0)	- CIBPTR
0	(0)	ADDRESS	4	CIBNEXT	- ADDRESS OF NEXT CIB IN QUEUE (ZERO FOR LAST)
4	(4)	CHARACTER	1	CIBVERB	- COMMAND VERB CODE
		.... .1..		CIBSTART	"X'04'" - COMMAND CODE FOR START
		.... 1...		CIBSTCOM	"X'08'" - COMMAND CODE FOR STC COMMUNICATION
		.1.. .1..		CIBMODFY	"X'44'" - COMMAND CODE FOR MODIFY
		.1..		CIBSTOP	"X'40'" - COMMAND CODE FOR STOP
		.... 11..		CIBMOUNT	"X'0C'" - COMMAND CODE FOR MOUNT
5	(5)	SIGNED	1	CIBLEN	- LENGTH IN DOUBLEWORDS OF CIB INCLUDING CIBDATA
6	(6)	SIGNED	2	CIBXOFF	- OFFSET TO CIB EXTENSION
8	(8)	BITSTRING	2		- RESERVED FOR CSCB COMPATIBILITY

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Table 452. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
10	(A)	SIGNED	2	CIBASID(0)	- ADDRESS SPACE ID (OS/VS2) MDC001
10	(A)	CHARACTER	2	CIBTJID	- TSO TERMINAL JOB IDENTIFIER (OS/VS1) MDC001
12	(C)	CHARACTER	1	CIBRSV01	Reserved - was CIBCONID
13	(D)	ADDRESS	1	CIBRSV1	- VERSION LEVEL
13	(D)	X'1'	0	CIBS313	"1" VERSION LEVEL FOR MVS SP3.1.3
13	(D)	X'2'	0	CIBS410	"2" VERSION LEVEL FOR MVS SP41.0
13	(D)	X'3'	0	CIB15497	"3" VERSION LEVEL WITH OW15497 INSTALLED
13	(D)	X'3'	0	CIBVRSN	"CIB15497" VERSION LEVEL
14	(E)	SIGNED	2	CIBDATLN	- LENGTH IN BYTES OF DATA IN CIBDATA
16	(10)	CHARACTER	8	CIBDATA	- DATA FROM COMMAND OPERAND

Table 453. Structure CIBX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CIBX	- CIB EXTENSION
0	(0)	SIGNED	4	CIBXUTOK	- POINTER TO UTOKEN
4	(4)	CHARACTER	2	CIBXAUTH(0)	- COMMAND AUTHORITY CODE
4	(4)	BITSTRING	1	CIBXAUTA	BYTE ONE
		1...		CIBXAUT1	"X'80'" COMMAND HAS SYS AUTHORITY
		.1..		CIBXAUT2	"X'40'" COMMAND HAS I/O AUTHORITY
		..1.		CIBXAUT3	"X'20'" COMMAND HAS CONS AUTHORITY
		X'1F' RESERVED			
5	(5)	BITSTRING	1	CIBXAUTB	BYTE TWO, RESERVED
6	(6)	CHARACTER	1	CIBXDISP	- AUTHORITY OF COMMAND
		1...		CIBXDISA	"X'80'" COMMAND HAS MASTER AUTHORITY (IT IS SUGGESTED THAT CIBXDISM BE USED INSTEAD)
		.1..		CIBXDISM	"X'40'" COMMAND HAS MASTER AUTHORITY
		..1.		CIBXDISC	"X'20'" COMMAND ISSUED FROM AN MCS CONSOLE
		...1		CIBXDISR	"X'10'" COMMAND ISSUED BEFORE RACF ACTIVE
		.... 1...		CIBXDISE	"X'08'" COMMAND WAS ISSUED BY ARM
		X'07' RESERVED			
7	(7)	BITSTRING	1	CIBXFLG	Flag byte
		1...		CIBXTJY	"X'80'" CIBASID contains a tjid
8	(8)	CHARACTER	8	CIBXCNNM	- CONSOLE NAME
16	(10)	CHARACTER	8	CIBXCART	- COMMAND & RESPONSE TOKEN
24	(18)	SIGNED	4	CIBXCNID	- CONSOLE ID
28	(1C)	SIGNED	4	CIBXPTRC	RESERVED FOR IBM USE

Table 453. Structure CIBX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	SIGNED	4	CIBXOCID	ORIGINATING CONSOLE ID (USED FOR AUTHORITY CHECKING)
36	(24)	CHARACTER	12	CIBXRSVD	RESERVED
36	(24)	X'30'	0	CIBXEND	"*" - END OF THE CIB EXTENSION
36	(24)	X'30'	0	CIBXLEN	"CIBXEND-CIBX" LENGTH OF THE CIB EXTENSION

Table 454. Cross Reference for CIB

Name	Offset	Hex Tag
CIBASID	A	
CIBDATA	10	
CIBDATLN	E	
CIBLEN	5	
CIBMODFY	4	44
CIBMOUNT	4	C
CIBNEXT	0	
CIBRSV01	C	
CIBRSV1	D	
CIBSTART	4	4
CIBSTCOM	4	8
CIBSTOP	4	40
CIBS313	D	1
CIBS410	D	2
CIBTJID	A	
CIBVERB	4	
CIBVRSN	D	3
CIBX	0	
CIBXAUTA	4	
CIBXAUTB	5	
CIBXAUTH	4	
CIBXAUT1	4	80
CIBXAUT2	4	40
CIBXAUT3	4	20
CIBXCART	10	
CIBXCNID	18	
CIBXCNNM	8	
CIBXDISA	6	80
CIBXDISC	6	20
CIBXDISE	6	8
CIBXDISM	6	40
CIBXDISP	6	
CIBXDISR	6	10
CIBXEND	24	30
CIBXFLG	7	
CIBXLEN	24	30
CIBXOCID	20	
CIBXOFF	6	
CIBXPTRC	1C	

Table 454. Cross Reference for CIB (continued)

Name	Offset	Hex Tag
CIBXRSVD	24	
CIBXTJY	7	80
CIBXUTOK	0	
CIB15497	D	3

Chapter 99. CISP Information

CISP Heading Information

Common Name:	Console Inactive Signal Parameter List
Macro ID:	IEEZB832
DSECT Name:	CISP
Owning Component:	System command - SVC 34 (SC1B8)
Eye-Catcher ID:	CISP Offset: 0 Length: 4
Storage Attributes:	Residency: Caller's storage
Size:	40 bytes
Created by:	IEAVG712 - MCSOPER Macro Processor
Pointed to by:	IEAVG712 passes the address of this parameter list as part of the overall parameter list to the ENF service.
Serialization:	None
Function:	This is passed as the user's parameter list by MCSOPER processing to ENF when a signal is issued to say the extended MCS operator has become inactive.

CISP mapping

Table 455. Structure CISP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	40	CISP	Console Inactive Signal Parameter List
0	(0)	CHARACTER	4	CISPACRN	Acronym - 'CISP'
4	(4)	UNSIGNED	1	CISPVRSN	Version Level
5	(5)	CHARACTER	3	CISPRSV1	Reserved
8	(8)	CHARACTER	8	CISPSYSN	System Name
16	(10)	CHARACTER	8	CISPCNNM	Console Name
24	(18)	UNSIGNED	4	CISPCNID	4-byte Console ID
28	(1C)	CHARACTER	12	CISPRSV2	Reserved

Table 456. Constants for CISP

Len	Type	Value	Name	Description
4	CHARACTER	CISP	CISPACRO	Acronym - 'CISP'
1	DECIMAL	1	CISPSP41	Version Level - HBB4410
1	DECIMAL	1	CISPVERS	Version Level - Current

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Chapter 100. CLTE Information

CLTE Heading Information

Common Name:	CURRENT LOCKS HELD TABLE EXTENSION
Macro ID:	IHACLTE
DSECT Name:	CLTE
Owning Component:	SUPERVISOR CONTROL (SC1C5)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: 239 - CPU RELATED WORK SAVE AREA Key: 0 Residency: VIRTUAL: ABOVE 16M LINE.
Size:	OFFSET OF CLTEEND MINUS THE OFFSET OF CLTE
Created by:	IEAVCLTE (TEMPORARY CLTE) IEAVNIP0 IEEVCPRA
Pointed to by:	PSAECLTP
Serialization:	COMPARE AND SWAP
Function:	PROVIDE DATA MAPPING OF THE CURRENT LOCKS HELD TABLE EXTENSION.

CLTE mapping

Table 457. Structure CLTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	128	CLTE	CURRENT LOCKS HELD TABLE EXTENSION.
0	(0)	ADDRESS	4	CLTEBLSD	BMFLSD LOCK.
4	(4)	ADDRESS	4	CLTEXDS	XCFDS LOCK.
8	(8)	ADDRESS	4	CLTEXRES	XCFRES LOCK.
12	(C)	ADDRESS	4	CLTEXQ	XCFQ LOCK.
		1...		CLTEXQEX	BIT 0 OF CLTEXQ. IF ON, THE XCFQ LOCK IS HELD EXCLUSIVE.
		.111 1111		*	
16	(10)	ADDRESS	4	CLTEESET	ETRSET LOCK.
20	(14)	ADDRESS	4	CLTEIXSC	IXLSCH LOCK.
24	(18)	ADDRESS	4	CLTEIXSH	IXLSHR LOCK.
		1...		CLTEIXEX	BIT 0 OF CLTEIXSH. IF ON, THE IXSH LOCK IS HELD EXCLUSIVE.
		.111 1111		*	
28	(1C)	ADDRESS	4	CLTEIXDS	IXLDS LOCK.
32	(20)	ADDRESS	4	CLTEIXLL	IXLSHELL LOCK.
36	(24)	ADDRESS	4	CLTEULUT	IOSULUT LOCK.
		1...		CLTEULEX	BIT 0 OF CLTEULUT. IF ON, THE IOSULUT LOCK IS HELD EXCLUSIVE.
		.111 1111		*	
40	(28)	ADDRESS	4	CLTEIXRE	IXLREQST LOCK.
44	(2C)	ADDRESS	4	CLTEWLMR	WLMRES LOCK
48	(30)	ADDRESS	4	CLTEWLMQ	WLMQ LOCK.
		1...		CLTEWLMX	BIT 0 OF CLTEWLMQ. IF ON, THE WLMQ LOCK IS HELD EXCLUSIVE.

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Table 457. Structure CLTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.111 1111		*	
52	(34)	ADDRESS	4	CLTECNTX	CONTEXT LOCK
56	(38)	ADDRESS	4	CLTEREGS	REGSRV LOCK.
		1...		CLTEREGX	BIT 0 OF CLTEREGS. IF ON, THE REGSRV LOCK IS HELD EXCLUSIVE.
		.111 1111		*	
60	(3C)	ADDRESS	4	CLTESSD	SSD LOCK
64	(40)	ADDRESS	4	CLTEGRSI	GRSINT lock
		1...		CLTEGIEX	Bit 0 of CLTEGRSI. If on, the GRSINT lock is held exclusive.
		.111 1111		*	
68	(44)	ADDRESS	4	CLTEMISC	Address of MISC lock
72	(48)	ADDRESS	4	CLTEDNU2	Address of DONOTUS2 lock
76	(4C)	ADDRESS	4	CLTEDNU3	Address of DONOTUS3 lock
80	(50)	ADDRESS	4	CLTEDNU4	Address of DONOTUS4 lock
84	(54)	ADDRESS	4	CLTEDNU5	Address of DONOTUS5 lock
88	(58)	ADDRESS	4	CLTERLK2	Address of HCWDRLK2 lock
92	(5C)	ADDRESS	4	CLTERLK1	Address of HCWDRLK1 lock
96	(60)	ADDRESS	4	CLTESRME	SRMENQ lock
		1...		CLTESRMX	Bit 0 of CLTESRME. If on, the SRMENQ lock is held exclusive.
		.111 1111		*	
100	(64)	ADDRESS	4	CLTESSDG	Address of SSDGROUP lock
104	(68)	CHARACTER	24	CLTER068	RESERVED.
128	(80)	CHARACTER	0	CLTEEND	END OF THE CLTE.

Table 458. Cross Reference for CLTE

Name	Offset	Hex Tag
CLTE	0	
CLTEBLSD	0	
CLTECNTX	34	
CLTEDNU2	48	
CLTEDNU3	4C	
CLTEDNU4	50	
CLTEDNU5	54	
CLTEEND	80	
CLTEESET	10	
CLTEGIEX	40	80
CLTEGRSI	40	
CLTEIXDS	1C	
CLTEIXEX	18	80
CLTEIXLL	20	
CLTEIXRE	28	
CLTEIXSC	14	
CLTEIXSH	18	
CLTEMISC	44	
CLTEREGS	38	
CLTEREGX	38	80
CLTERLK1	5C	

Table 458. Cross Reference for CLTE (continued)

Name	Offset	Hex Tag
CLTERLK2	58	
CLTER068	68	
CLTESRME	60	
CLTESRMX	60	80
CLTESSD	3C	
CLTESSDG	64	
CLTEULEX	24	80
CLTEULUT	24	
CLTEWLMQ	30	
CLTEWLMR	2C	
CLTEWLMX	30	80
CLTEXDS	4	
CLTEXQ	C	
CLTEXQEX	C	80
CLTEXRES	8	

Chapter 101. CMB Information

CMB Programming Interface Information

CMB is a programming interface.

CMB Heading Information

Common Name:	CHANNEL MEASUREMENT BLOCK
Macro ID:	IRACMB
DSECT Name:	IRACMB
Owning Component:	SYSTEMS RESOURCE MANAGER (SC1CX)
Eye-Catcher ID:	CMB Offset: 0 Length: 4
Storage Attributes:	Main Storage: ECSA Residency: ABOVE 16M LINE
Size:	IRACMB -- X'0040' bytes
Created by:	IEAVNP1F @PZJ0030
Pointed to by:	THE ADDRESS OF THE CMB IS CONTAINED IN THE -CMCTCMBV- FIELD OF THE CHANNEL MEASUREMENT CONTROL TABLE. THE INDEX OF A PARTICULAR ENTRY IS IS FOUND IN THE -UCBMBI- FIELD OF THAT DEVICE'S UCB.
Serialization:	NONE
Function:	THE CMB CONSISTS OF CONTIGUOUS REAL STORAGE CONTAINING INFORMATION STORED DIRECTLY BY THE CHANNEL. IT INCLUDES ENTRIES FOR TAPE, DASD, AND OPTIONALLY, INSTALLATION SPECIFIED DEVICES.

CMB mapping

Table 459. Structure IRACMB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IRACMB	
0	(0)	CHARACTER	32	CMBHDR(0)	HEADER MUST SAME LENGTH AS CMB ELEMENTS. SEE NOTE
0	(0)	CHARACTER	4	CMBNAME	ACRONYM 'CMB'
4	(4)	SIGNED	4	CMBSIZE	NO. OF BYTES IN CMB
8	(8)	SIGNED	4	CMBMBID	NUMBER OF CMB ENTRIES RESERVED FOR DYNAMICALLY ADDED DASD
12	(C)	CHARACTER	20		RESERVED
32	(20)	CHARACTER	32	CMBNTRY(0)	ARRAY OF CMB ENTRIES
32	(20)	SIGNED	2	CMBSSCHC	NO. OF SSCH INSTRUCTIONS
34	(22)	SIGNED	2	CMBSAMPC	NO. OF SSCH INSTRUCTIONS FOR WHICH DATA WAS COLLECTED
36	(24)	SIGNED	4	CMBCONNT	SUMMATION OF DEVICE CONNECT TIMES
40	(28)	SIGNED	4	CMBPENDT	SUMMATION OF SSCH REQUEST PENDING TIMES

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Table 459. Structure IRACMB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
44	(2C)	SIGNED	4	CMBDISCT	SUMMATION OF SUBCHANNEL DISCONNECT TIMES
48	(30)	SIGNED	4	CMBCUQTA	SUMMATION OF CONTROL UNIT QUEUEING TIMES
52	(34)	SIGNED	4	CMBDAO	Summation of Device-active- only times
56	(38)	SIGNED	4	CMBDBT	Device busy time
60	(3C)	SIGNED	4	CMBICMR	Initial command response time
60	(3C)	X'40'	0	IRACMB_LEN	"*-IRACMB"

Table 460. Cross Reference for CMB

Name	Offset	Hex Tag
CMBCONNT	24	
CMBCUQTA	30	
CMBDAO	34	
CMBDBT	38	
CMBDISCT	2C	
CMBHDR	0	
CMBICMR	3C	
CMBMBID	8	
CMBNAME	0	
CMBNTRY	20	
CMBPENDT	28	
CMBSAMPC	22	
CMBSIZE	4	
CMBSSCHC	20	
IRACMB	0	
IRACMB_LEN	3C	40

Chapter 102. CMCT Information

CMCT Programming Interface Information

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

- @OA22918
- @OA22918
- @WA38548
- @WA38548
- @WA38548
- CMCTCMC2
- CMCTCPMB
- CMCTCpmfStateInfo
- CMCTCPMX
- CMCTCPM2
- CMCTCPOK
- CMCTCRCT
- CMCTECMBALET
- CMCTECMBMODE
- CMCTECMBPTR
- CMCTECMF

CMCT Heading Information

Common Name:	Channel Measurement Control Table
Macro ID:	IRACMCT
DSECT Name:	CMCT
Owning Component:	SRM (SC1CX)
Eye-Catcher ID:	'CMCT' Offset: 00 Length: 4 bytes
Storage Attributes:	Subpool: Extended Nucleus (Module IRARMCNS) Key: Key 0 Residency: Above 16MB
Size:	See Assembler Listing
Created by:	IEAVNP10 IEAVNP1F
Pointed to by:	RMCTCMCT field of Resource Manager Control Table (RMCT)
Serialization:	Updates are serialized by the SRM Lock.
Function:	The CMCT contains the information needed to locate the control blocks which are used by the system resource manager for the collection of i/o measurement data. It also contains summary status information related to this function.

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CMCT mapping

Table 461. Structure CMCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CMCT	
0	(0)	CHARACTER	4	CMCTNAME	- ACRONYM 'CMCT'
4	(4)	BITSTRING	1	CMCTVERS	CMCT Version number
4	(4)	X'0'	0	CMCTVER0	"00" Base CMCT
4	(4)	X'1'	0	CMCTVER1	"01" CMCT includes extended measurement mode support
5	(5)	BITSTRING	3	CMCTRSV1	Reserved
8	(8)	ADDRESS	4	CMCTDBVT	- ADDR OF DBVT
12	(C)	ADDRESS	4	CMCTCPMT	- ADDR OF CHANNEL PATH MEASUREMENT TABLE
16	(10)	SIGNED	4	CMCTCMBR	- REAL ADDR OF CMB
20	(14)	ADDRESS	4	CMCTCMBV	- VIRTUAL ADDR OF CMB
24	(18)	ADDRESS	4	CMCTCPWK	- ADDR OF 32 BYTE WORKAREA FOR STCPS INSTRUCTION
28	(1C)	ADDRESS	4	CMCTHICP	- ADDR OF HIGHEST VALID ENTRY IN CPMT
32	(20)	DBL WORD	8	CMCTPERM	- ALLOCATION BLOCK FOR PERM DMB STORAGE
32	(20)	X'20'	0	CMCTPDMB	"CMCTPERM+0" ADDR OF 1ST IN USE PERM DMB
32	(20)	X'24'	0	CMCTPCID	"CMCTPERM+4" CPOOL ID FOR PERM DMBS
40	(28)	SIGNED	4	CMCTRSV2	
44	(2C)	SIGNED	4	CMCTRSEQ	SEQ. NO. OF LAST DROPOFF READ
48	(30)	SIGNED	2	CMCTHMBI	- THE HIGHEST MBI ASSIGNED BY IOS
50	(32)	SIGNED	2	CMCTCMBT	- THE TOTAL NUMBER OF CMB ENTRIES
52	(34)	SIGNED	4	CMCTUPDT	- TIME OF LAST DMB/CPMT UPDATE
56	(38)	SIGNED	4	CMCTSAMI	- TIME INTERVAL BETWEEN CHAN MEAS SAMPLES IN MILLISECONDS
60	(3C)	SIGNED	2	CMCTCTUN	- TUNTS BETWEEN CHAN MEAS SAMPLES
62	(3E)	SIGNED	2	CMCTCTU	- TUNTS REMAINING TO NEXT CHAN MEAS SAMPL
64	(40)	SIGNED	4	CMCTSTRT	- TIME MEASUREMENTS SET TO START PENDING
68	(44)	SIGNED	4	CMCTELST	- ELAPSED TIME SINCE DMB/CPMT UPDATE IN 128 MICRO SECONDS
72	(48)	SIGNED	4	CMCTSYNI	- TIME TO SYNCH CHAN TIMERS IN MILLISECONDS
76	(4C)	SIGNED	4	CMCTSPIP	- ?SPI CALL PARAMETERS ADDRESS
80	(50)	SIGNED	2	CMCTDSIZ	- NO. OF BYTES TO ALLOC IN NEW DMB CPOOL
82	(52)	SIGNED	2	CMCTRSV5	
84	(54)	SIGNED	2	CMCTSAMC	- NO. OF SAMPLES OF UCB QUEUE LENGTHS
86	(56)	SIGNED	2	CMCTMORE	- TOTAL NO. OF ENTRIES REQUIRED IN UPPER PORTION OF CMB
88	(58)	SIGNED	2	CMCTCMBN	- NO. OF ADDITIONAL CMB SLOTS SPECIFIED AS N IN CMB KEYWORD

Table 461. Structure CMCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
90	(5A)	BITSTRING	1	CMCTDVCL	DEVICE CLASS REQUEST FLAGS
		1...		CMCTUNTR	"BIT0" - UNIT RECORD DEVICES
		.1..		CMCTCOMM	"BIT1" - COMMUNICATIONS EQUIPMENT
		..1.		CMCTGRPH	"BIT2" - GRAPHICS DEVICES
		...1		CMCTCHRD	"BIT3" - CHARACTER READER DEVICES
91	(5B)	BITSTRING	1	CMCTFLG1	I/O MEASUREMENT CONTROL FLAGS 1
		1...		CMCTDCA	"BIT0" - DCTI MEASUREMENTS ACTIVE
		.1..		CMCTMFA	"BIT1" - CMB DATA COLLECTION ACTIVE
		..1.		CMCTPAA	"BIT2" - CHANNEL PATH STATUS MEASUREMENT ACTIVE
		...1		CMCTMFSP	"BIT3" - CMB DATA COLLECTION START PENDING
		.... 1...		CMCTCPMF	"BIT4" - CPMF INSTALLED INDICATOR
		.... .1..		CMCTCPDR	"BIT5" - CPMF delayed restart issued
		.... ..1.		CMCTECPM	"BIT6" - CPMF extensions installed
		1		CMCTCPOK	"BIT7" - CPMF OPERATIONAL INDICATOR (ON - CPMF IS AVAILABLE FOR USE)
92	(5C)	BITSTRING	1	CMCTFLG2	I/O MEASUREMENT CONTROL FLAGS 2
		1...		CMCTDCOK	"BIT0" - DCTI MEASUREMENTS CONTROL STRUCTURE OK
		.1..		CMCTMFOK	"BIT1" - CMB MEASUREMENT CONTROL STRUCTURE OK
		..1.		CMCTCMOK	"BIT2" - CHANNEL MONITOR FACILITY OK
		...1		CMCTTCOK	"BIT3" - TOD CLOCK FACILITY OK
		.... 1...		CMCTPAOK	"BIT4" - CHANNEL PATH STATUS CONTROL STRUCTURE OK
		.... .1..		CMCTSDOK	"BIT5" - SAD IS INSTALLED AND OPERATIONAL
		.... ..1.		CMCTSCIP	"BIT6" - ASYCHRONOUS SPI CALL IN PROGRESS
		1		CMCTECMF	"BIT7" - Enhanced CPMF available
93	(5D)	BITSTRING	1	CMCTKEY	- STORAGE KEY OF CMB
94	(5E)	BITSTRING	1	CMCTRSV6	- RESERVED
95	(5F)	BITSTRING	1	CMCTRWCT	- CPMF restart wait count
96	(60)	SIGNED	4	CMCTWORK(4)	- WORKAREA FOR ACCUMULATING CMB VALUES
96	(60)	X'60'	0	CMCTSAM4	"CMCTWORK+0" CMB SAMPLE COUNT @WLMPMCS
CMCTSSCH EQU CMCTWORK+0 CMB SAMPLE COUNT ------- DROPPED CMCTSAMP EQU CMCTWORK+2 CMB SSCH COUNT ------- DROPPED					
96	(60)	X'64'	0	CMCTCONN	"CMCTWORK+4" CMB CONNECT TIME
96	(60)	X'68'	0	CMCTPEND	"CMCTWORK+8" CMB PENDING TIME
96	(60)	X'6C'	0	CMCTACTV	"CMCTWORK+12" CMB ACTIVE TIME
112	(70)	ADDRESS	4	CMCTCPFL	ADDR STCPS OR CHAN MON FAILURE

Table 461. Structure CMCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
116	(74)	ADDRESS	4	CMCTVDEV	ADDR OF ENF VARY DEVICE RTN IN
120	(78)	ADDRESS	4	CMCTUCBC	ADDR OF ENF VARY PATH RTN IN
124	(7C)	ADDRESS	4	CMCTDDR	ADD OF ENF DDR ENTRY IN IRARMCHM
128	(80)	ADDRESS	4	CMCTMDON	ADDR OF ROUTINE SCHEDULED WHEN
132	(84)	ADDRESS	4	CMCTMDXN	ADDR OF ROUTINE SCHEDULED BY
136	(88)	SIGNED	2	CMCTLTA	LONG TERM AVERAGING FACTOR
138	(8A)	SIGNED	2	CMCTLTA1	LONG TERM AVERAGING FACTOR PLUS ONE
140	(8C)	SIGNED	2	CMCTSTME	TIME BETWEEN STCPS SAMPLES
142	(8E)	SIGNED	2	CMCTRSV3	
144	(90)	SIGNED	4	CMCTSWTH	THRESHOLD TO SWITCH FROM SAD TO STCPS
148	(94)	ADDRESS	4	CMCTSWC	REAL SECONDS (SCALED) FOR SWITCH THRES
152	(98)	SIGNED	4	CMCTDTME	TIME OF LAST SAD DATA DROPOFF - INITIALIZED TO LARGE VALUE TO CAUSE INITIAL START UP
156	(9C)	BITSTRING	4	CMCTRSRT	THRESHOLD TO TRY SAD DATA RESTART (IN SRM TIMER UNITS)
160	(A0)	ADDRESS	4	CMCTSADB	ADDR OF SADB BLOCK
164	(A4)	ADDRESS	4	CMCTSPCS	ADDR OF SPCSP BLOCK
168	(A8)	ADDRESS	4	CMCTCPMB	ADDR OF CHANNEL PATH MEASUREMENT BLOCK (VALID ONLY WHEN CMCTCPOK IN CMCTFLG1 IS ON)
172	(AC)	SIGNED	4	CMCTCRCT	CPMF RESTART COUNT
176	(B0)	SIGNED	4	CMCTCPCT	LAST RECORDED CPMB SAMPLE COUNT
180	(B4)	SIGNED	4	CMCTTODS	TIME STAMP OF LAST CPMF CHECK
184	(B8)	SIGNED	4	CMCTCMC2	ADDRESS OF CHANNEL MEASUREMENT CHARACTERISITICS BLOCK
188	(BC)	SIGNED	4	CMCTCPM2	ADDRESS OF CHANNEL PATH MEASUREMENT EXTENDED BLOCK
192	(C0)	DBL WORD	8	CMCTCPMFSTATEINFO(0)	CPMF STATE INFORMATION
192	(C0)	BITSTRING	1	CMCTCPMFMODE	CURRENT MEASUREMENT MODE 0 - CPMF NOT ACTIVE 1 - COMPATABILITY MODE 2 - EXTENDED MODE
192	(C0)	X'0'	0	CMCT_CPMF_NA	"00" CPMF NOT ACTIVE
192	(C0)	X'1'	0	CMCT_CPMF_COMPAT	"01" CPMF IN COMPAT MODE
192	(C0)	X'2'	0	CMCT_CPMF_EXTEND	"02" CPMF IN EXTENDED MODE
193	(C1)	BITSTRING	1	CMCTOPTXXMODE	MEASUREMENT MODE SPECIFIED IN IEAOPTXX MEMBER OF SYS1.PARMLIB: 0 - CPMF KEYWORD NOT SET 1 - CPMF COMPATABILITY MODE 2 - CPMF EXTENDED
193	(C1)	X'0'	0	CMCT_OPT_NA	"00" CPMF KEYWORD NOT SET
193	(C1)	X'1'	0	CMCT_OPT_COMPAT	"01" CPMF COMPATABILITY MODE SET
193	(C1)	X'2'	0	CMCT_OPT_EXTEND	"02" CPMF EXTENDED MODE SET
194	(C2)	BITSTRING	1	CMCTCPMFFLAGS	PROCESSING FLAGS
		1...		CMCTEXTENDEDMODECHPID	"BIT0" CHPID REQUIRING EXTENDED MEASUREMENT MODE WAS FOUND IN THE SYSTEM. SET BY IOS.
195	(C3)	BITSTRING	1	CMCTCPMFFLAGS2	PROCESSING FLAGS 2

Table 461. Structure CMCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CMCTCPMFRESTART	"BIT0" SET ON IF CPMF WAS DETERMINED TO BE STOPPED AND A RESTART IS NEEDED. IF NEW BITS ARE ADDED, THEN CS IS NEEDED WHEN UPDATING CMCTCPMFFLAGS2.
196	(C4)	BITSTRING	1		Reserved
197	(C5)	CHARACTER	2	CMCTCMSTOPRSN	
199	(C7)	BITSTRING	1	CMCTCPFN	FUNCTION CODE FOR STARTING CPMF ROUTINE I14. 0 - NIP CPMF STARTUP 1 - REGULAR CPMF RESTART
199	(C7)	X'0'	0	CMCT_NIP	"00" Nip CPMF startup value
199	(C7)	X'1'	0	CMCT_RESTART	"01" Nip CPMF restart value
200	(C8)	SIGNED	2	CMCTATTEMPTMODESWITCH	COUNT OF ATTEMPTS BEGUN TO SWITCH MEASUREMENT MODES
202	(CA)	SIGNED	2	CMCTCOMPLETEMODESWITCH	COUNT OF COMPLETED ATTEMPTS TO SWITCH MEASUREMENT MODES
204	(CC)	SIGNED	4	CMCTIOSCSCMRC	RC of IOSCSCM
208	(D0)	CHARACTER	25	CMCTECMBINFO(0)	ECMB information
208	(D0)	ADDRESS	4	CMCTECMBPTR	ECMB address
212	(D4)	BITSTRING	8	CMCTECMBSTOKEN	ECMB dataspace STOKEN
220	(DC)	SIGNED	4	CMCTECMBALET	ECMB dataspace alet
224	(E0)	CHARACTER	8	CMCTECMBHIGHMBIS(0)	Highest MBI assigned per Subchannel
224	(E0)	SIGNED	2	CMCTECMBHIGHMBI0	- Subchannel set 0
226	(E2)	SIGNED	2	CMCTECMBHIGHMBI1	- Subchannel set 1
228	(E4)	SIGNED	2	CMCTECMBHIGHMBI2	- Subchannel set 2
230	(E6)	SIGNED	2	CMCTECMBHIGHMBI3	- Subchannel set 3
232	(E8)	BITSTRING	1	CMCTECMBFLAGS	ECMB flags
		1...		CMCTECMBMODE	"X'80'" On = ECMB mode
233	(E9)	BITSTRING	3		Reserved
236	(EC)	SIGNED	4	CMCTCPMX	Address of Extended Channel Utilization Block (valid only if CMCTECMF in CMCTFLG2 is ON)
240	(F0)	DBL WORD	8	CMCTEND(0)	- END OF CMCT
240	(F0)	X'F0'	0	CMCTLEN	"CMCTEND-CMCT" - LENGTH OF CMCT

Table 462. Cross Reference for CMCT

Name	Offset	Hex Tag
CMCT	0	
CMCT_CPMF_COMPAT	C0	1
CMCT_CPMF_EXTEND	C0	2
CMCT_CPMF_NA	C0	0
CMCT_NIP	C7	0
CMCT_OPT_COMPAT	C1	1
CMCT_OPT_EXTEND	C1	2
CMCT_OPT_NA	C1	0
CMCT_RESTART	C7	1
CMCTACTV	60	6C
CMCTATTEMPTMODESWITCH	C8	0
CMCTCHRD	5A	10
CMCTCMBN	58	0

Table 462. Cross Reference for CMCT (continued)

Name	Offset	Hex Tag
CMCTCMBR	10	0
CMCTCMBT	32	0
CMCTCMBV	14	
CMCTCMC2	B8	0
CMCTCMOK	5C	20
CMCTCMSTOPRSN	C5	4040
CMCTCOMM	5A	40
CMCTCOMPLETEMODESWITCH	CA	0
CMCTCONN	60	64
CMCTCPCT	B0	0
CMCTCPDR	5B	4
CMCTCPFL	70	
CMCTCPFN	C7	0
CMCTCPMB	A8	
CMCTCPMF	5B	8
CMCTCPMFFLAGS	C2	0
CMCTCPMFFLAGS2	C3	0
CMCTCPMFMODE	C0	0
CMCTCPMFRESTART	C3	80
CMCTCPMFSTATEINFO	C0	
CMCTCPMT	C	
CMCTCPMX	EC	0
CMCTCPM2	BC	0
CMCTCPOK	5B	1
CMCTCPWK	18	
CMCTCRCT	AC	0
CMCTCTU	3E	0
CMCTCTUN	3C	0
CMCTDBVT	8	
CMCTDCA	5B	80
CMCTDCOK	5C	80
CMCTDDR	7C	
CMCTDSIZ	50	800
CMCTDTME	98	7FFF
CMCTDVCL	5A	0
CMCTECMBALET	DC	0
CMCTECMBFLAGS	E8	0
CMCTECMBHIGHMBIS	E0	
CMCTECMBHIGHMBI0	E0	0
CMCTECMBHIGHMBI1	E2	0
CMCTECMBHIGHMBI2	E4	0
CMCTECMBHIGHMBI3	E6	0
CMCTECMBINFO	D0	
CMCTECMBMODE	E8	80
CMCTECMBPTR	D0	
CMCTECMBSTOKEN	D4	0
CMCTECMF	5C	1
CMCTECPM	5B	2
CMCTELST	44	0

Table 462. Cross Reference for CMCT (continued)

Name	Offset	Hex Tag
CMCTEND	F0	
CMCTEXTENDEDMODECHPID	C2	80
CMCTFLG1	5B	0
CMCTFLG2	5C	0
CMCTGRPH	5A	20
CMCTHICP	1C	
CMCTHMBI	30	0
CMCTIOSCSCMRC	CC	0
CMCTKEY	5D	50
CMCTLEN	F0	F0
CMCTLTA	88	9
CMCTLTA1	8A	A
CMCTMDON	80	
CMCTMDXN	84	
CMCTMFA	5B	40
CMCTMFOK	5C	40
CMCTMFSP	5B	10
CMCTMORE	56	0
CMCTNAME	0	C3D4C3E3
CMCTOPTXXMODE	C1	0
CMCTPAA	5B	20
CMCTPAOK	5C	8
CMCTPCID	20	24
CMCTPDMB	20	20
CMCTPEND	60	68
CMCTPERM	20	0
CMCTRSEQ	2C	0
CMCTRSRT	9C	8F000
CMCTRSV1	5	0
CMCTRSV2	28	0
CMCTRSV3	8E	0
CMCTRSV5	52	0
CMCTRSV6	5E	0
CMCTRWCT	5F	0
CMCTSADB	A0	
CMCTSAMC	54	0
CMCTSAMI	38	C8
CMCTSAM4	60	60
CMCTSCIP	5C	2
CMCTSDOK	5C	4
CMCTSPCS	A4	
CMCTSPIP	4C	0
CMCTSTME	8C	0
CMCTSTRT	40	0
CMCTSWC	94	
CMCTSWTH	90	0
CMCTSYNI	48	3E80
CMCTTCOK	5C	10
CMCTTODS	B4	0

Table 462. Cross Reference for CMCT (continued)

Name	Offset	Hex Tag
CMCTUCBC	78	
CMCTUNTR	5A	80
CMCTUPDT	34	0
CMCTVDEV	74	
CMCTVERS	4	2
CMCTVER0	4	0
CMCTVER1	4	1
CMCTWORK	60	0

Chapter 103. CMDX Information

CMDX Programming Interface Information

CMDX is a programming interface.

CMDX Heading Information

Common Name:	COMMAND INSTALLATION EXIT ROUTINE PARAMETER LIST
Macro ID:	IEZVX101
DSECT Name:	CMDX, CMDXCLIB, CMDXCDAM, CMDXOLIB
Owning Component:	Master Scheduler (SC1B8)
Eye-Catcher ID:	CMDX Offset: 0 Length: 4
Storage Attributes:	Subpool: 252 Key: 0 Residency: Any
Size:	CMDX -- X'0070' bytes CMDXCLIB -- X'0002' bytes CMDXCDAM -- X'000C' bytes CMDXOLIB -- X'0002' bytes
Created by:	IEECV6CX - THE COMMAND INSTALLATION EXIT INTERFACE ROUTINE
Pointed to by:	REGISTER 1 on entry to command installation exit
Serialization:	NONE
Function:	PROVIDES THE INTERFACE BETWEEN IEECV6CX AND THE COMMAND INSTALLATION EXITS.

CMDX mapping

Table 463. Structure CMDX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CMDX	Command installation exit parameter list
0	(0)	CHARACTER	4	CMDXACRN	Acronym CMDX
4	(4)	CHARACTER	1	CMDXVRSV	Version Level
5	(5)	BITSTRING	2	CMDXSTAT	Status bytes
5	(5)	BITSTRING	1	CMDXSTU1	Status flags
Bit definitions:					
	1...			CMDXNOCK	"X'80'" No authorization check
	.1..			CMDXFMCS	"X'40'" Command was issued from an MCS console
	..1.			CMDXSPNA	"X'20'" Command was issued before security product was activated
	...1			CMDXSYMS	"X'10'" Command text was changed by substitution of system symbolic variables

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Table 463. Structure CMDX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		CMDXIDOK	"X'08'" CMDXOCID valid
		.... .1..		CMDXTJY	"X'04'" On indicates CMDXASID contains a tjid
6	(6)	BITSTRING	1		Reserved
7	(7)	CHARACTER	1	CMDXRSV1	Reserved
8	(8)	CHARACTER	8	CMDXISYN	Issuing system name
16	(10)	CHARACTER	8	CMDXCNNM	Issuing console name
24	(18)	SIGNED	4	CMDXC4ID	Issuing console id in 4-byte format
24	(18)	BITSTRING	1	CMDXC4CL	Console class
25	(19)	SIGNED	3	CMDXC4NM	Console number
28	(1C)	CHARACTER	4	CMDXTOKN	Command issuer token
		CMDXAFLA contains the authority level of the console which issued the command. If the installation exit alters the authority of the command, the new authority overlays the original value.			
32	(20)	BITSTRING	2	CMDXAUTH	Command issuer authority
32	(20)	BITSTRING	1	CMDXAFLA	1st byte of authority
Bit definitions:					
		1...		CMDXAMST	"X'80'" Master authority
		.1..		CMDXASYS	"X'40'" SYS command authority
		..1.		CMDXAIO	"X'20'" IO command authority
		...1		CMDXACON	"X'10'" CONS command authority
33	(21)	BITSTRING	1	CMDXAFLB	Reserved
34	(22)	SIGNED	2	CMDXASID	ASID of the CMDX invoker
34	(22)	CHARACTER	2	CMDXTJID	TSO Terminal Job Identifier
36	(24)	ADDRESS	4	CMDXCWKP	Pointer to 12-byte common data area for all exits
40	(28)	ADDRESS	4	CMDXIWKP	Pointer to 8-byte data area for individual exit
44	(2C)	BITSTRING	4	CMDXSRFE	Request make to an exit
44	(2C)	BITSTRING	1	CMDXSRF1	Byte one
Bit definitions:					
		1...		CMDXCCDA	"X'80'" This is the termination call. Cleanup the common data area
		.1..		CMDXCIDA	"X'40'" This is the termination call. Cleanup the individual data area
45	(2D)	BITSTRING	3	CMDXSRF2	Reserved
48	(30)	BITSTRING	4	CMDXRFLG	Request flags. Made by an exit
48	(30)	BITSTRING	1	CMDXRFL1	Byte one
Bit definitions:					
		1...		CMDXRCMI	"X'80'" Change the command image. The new or changed command image must be in CMDXCMDI buffer along with modify length. The change must not be more than 126 characters in length

Table 463. Structure CMDX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CMDXRAUT	"X'40'" Change the command authority. The new or changed authority must be in CMDXAUTH. If request not valid, the request will be ignored.
		..1.		CMDXCNMG	"X'20'" Process IEE295I message request.
		...1		CMDXRNMG	"X'10'" 0 - produce IEE295I message 1 - do not produce IEE295I
		.... 1...		CMDXCNHC	"X'08'" Process command hardcopy request.
		.... .1..		CMDXRNHC	"X'04'" 0 - hardcopy altered command 1 - do not HC altered cmd
49	(31)	BITSTRING	3	CMDXRFL2	Reserved
52	(34)	BITSTRING	4	CMDXPRFL	Previous request flags
52	(34)	BITSTRING	1	CMDXPRF1	Byte one
Bit definitions:					
		1...		CMDXPRCI	"X'80'" Changed the command image
		.1..		CMDXPRAU	"X'40'" Changed the authority of the issuer of the command (for this command only)
		..1.		CMDXPRNM	"X'20'" System will not produce IEE295I message.
		...1		CMDXPRNH	"X'10'" System will not hardcopy altered command.
53	(35)	BITSTRING	3	CMDXPRF2	Reserved
56	(38)	ADDRESS	4	CMDXCLIP	Pointer to the command length and the command image
60	(3C)	CHARACTER	4	CMDXEDAT	Exit data from MGCRE
64	(40)	CHARACTER	8	CMDXTRNM	Terminal name
72	(48)	CHARACTER	8	CMDXCLNM	Console class name
80	(50)	CHARACTER	8	CMDXCART	Command response token
88	(58)	ADDRESS	4	CMDXUTOK	Pointer to utoken
92	(5C)	ADDRESS	4	CMDXOLIP	If CMDXSYMS = ON, address of structure CMDXOLIB (original command text before symbolic variable substitution)
96	(60)	SIGNED	4	CMDXOCID	Originating console id (use for authority checking
100	(64)	ADDRESS	4	CMDXENVR	Pointer to ENVR object
104	(68)	CHARACTER	8	CMDXRSV4	Reserved
104	(68)	X'70'	0	CMDX_LEN	"*-CMDX"

Table 464. Structure CMDXCLIB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CMDXCLIB	Command buffer
0	(0)	SIGNED	2	CMDXCMDL	Length of the command text
2	(2)	CHARACTER	1	CMDXCMDI(0)	Command image text

Table 464. Structure CMDXCLIB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		THE ACRONYM AND THE VERSION NUMBER TO BE PLACED IN THE COMM TASK EXIT PARAMETER LIST.			
2	(2)	X'D4C4E7'	0	CMDXNAME	"C'CMDX'" ACRONYM
2	(2)	X'1'	0	CMDXS410	"1" LEVEL OS/VS2 HBB4410
2	(2)	X'2'	0	CMDXS520	"2" LEVEL OS/VS2 HBB5520
2	(2)	X'2'	0	CMDXVERN	"2" CURRENT VERSION LEVEL
2	(2)	X'2'	0	CMDXCLIB_LEN	"*-CMDXCLIB"

Table 465. Structure CMDXCDAM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CMDXCDAM	12-BYTE DATA AREA MAPPING
0	(0)	ADDRESS	4	CMDXCRTN	ADDRESS OF CLEANUP ROUTINE TO BE INVOKED AT THE TERMINATION CALL
4	(4)	CHARACTER	8	CMDXCUDA	8 BYTES USER DATA AREA
4	(4)	X'C'	0	CMDXCDAM_LEN	"*-CMDXCDAM"

Table 466. Structure CMDXOLIB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CMDXOLIB	Original command text
0	(0)	SIGNED	2	CMDXOMDL	Length of the command text
2	(2)	CHARACTER	1	CMDXOMDI(0)	Command image text
2	(2)	X'2'	0	CMDXOLIB_LEN	"*-CMDXOLIB"

Table 467. Cross Reference for CMDX

Name	Offset	Hex Tag
CMDX	0	
CMDX_LEN	68	70
CMDXACON	20	10
CMDXACRN	0	
CMDXAFLA	20	
CMDXAFLB	21	
CMDXAIO	20	20
CMDXAMST	20	80
CMDXASID	22	
CMDXASYS	20	40
CMDXAUTH	20	
CMDXCART	50	
CMDXCCDA	2C	80
CMDXCDAM	0	
CMDXCDAM_LEN	4	C
CMDXCIDA	2C	40
CMDXCLIB	0	
CMDXCLIB_LEN	2	2
CMDXCLIP	38	
CMDXCLNM	48	

Table 467. Cross Reference for CMDX (continued)

Name	Offset	Hex Tag
CMDXCMDI	2	
CMDXCMDL	0	
CMDXCNHC	30	8
CMDXCNMG	30	20
CMDXCNNM	10	
CMDXCRTN	0	
CMDXCUDA	4	
CMDXCWKP	24	
CMDXC4CL	18	
CMDXC4ID	18	
CMDXC4NM	19	
CMDXEDAT	3C	
CMDXENVR	64	
CMDXFMCS	5	40
CMDXIDOK	5	8
CMDXISYN	8	
CMDXIWKP	28	
CMDXNAME	2	D4C4E7
CMDXNOCK	5	80
CMDXOCID	60	
CMDXOLIB	0	
CMDXOLIB_LEN	2	2
CMDXOLIP	5C	
CMDXOMDI	2	
CMDXOMDL	0	
CMDXPRAU	34	40
CMDXPRCI	34	80
CMDXPRFL	34	
CMDXPRF1	34	
CMDXPRF2	35	
CMDXPRNH	34	10
CMDXPRNM	34	20
CMDXRAUT	30	40
CMDXRCMI	30	80
CMDXRFLG	30	
CMDXRFL1	30	
CMDXRFL2	31	
CMDXRNHC	30	4
CMDXRNMG	30	10
CMDXRSV1	7	
CMDXRSV4	68	
CMDXSPNA	5	20
CMDXSRFE	2C	
CMDXSRF1	2C	
CMDXSRF2	2D	
CMDXSTAT	5	
CMDXSTU1	5	
CMDXSYMS	5	10
CMDXS410	2	1

Table 467. Cross Reference for CMDX (continued)

Name	Offset	Hex Tag
CMDXS520	2	2
CMDXTJID	22	
CMDXTJY	5	4
CMDXTOKN	1C	
CMDXTRNM	40	
CMDXUTOK	58	
CMDXVERN	2	2
CMDXVRSV	4	

Chapter 104. CNMB Information

CNMB Programming Interface Information

CNMB is a programming interface.

CNMB Heading Information

Common Name:	Converter Message Buffer Mapping
Macro ID:	IEFCNMB
DSECT Name:	CNMB
Owning Component:	Converter (SC1B9)
Eye-Catcher ID:	CNMB Offset: 0 Length: 4 bytes
Storage Attributes:	Subpool: Recommended subpool - 230 Installation specifies subpool in the C/I text exit. Subpool is returned to the converter in the CNMB. Desirable attributes: private, task-related Key: 1 Residency: BELOW
Size:	see CNMBSIZE value
Created by:	C/I Text exit
Pointed to by:	- CNMBNPTR field of the CNMB data area - On return from JES2 exit 6, the 5th word of a parameter list pointed to by register 1 - On return from JES3 exit IATUX03, the 2nd word of a parameter list pointed to by register 1
Serialization:	None
Function:	This macro provides the mapping for a message buffer returned by the C/I text exit. The buffer can be used to pass installation-specific messages to the converter for output to the message dataset. It can also be used to direct the converter to fail a job at the discretion of the installation.

CNMB mapping

Table 468. Structure CNMB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CNMB	
0	(0)	X'0'	0	CNMBBGN	"*"
0	(0)	CHARACTER	4	CNMBID	IDENTIFIER (LOADED FROM CNMBCID)
4	(4)	BITSTRING	1	CNMBVER	CNMB VERSION NUMBER (CNMBCVER)
5	(5)	CHARACTER	1	CNMBSUBP	SUBPOOL FROM WHICH CNMB STORAGE WAS OBTAINED (eg E6)
6	(6)	SIGNED	2	CNMBLEN	LENGTH OF CNMB (CNMBSIZE)
8	(8)	BITSTRING	1	CNMBOPTS	OPTION BYTE

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Table 468. Structure CNMB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CNMBFJOB	"X'80'" WHEN SET ON BY THE EXIT INDICATES TO THE CONVERTER TO FAIL THE JOB IF SET ON, CONVERSION WILL CONTINUE UNTIL THE ENTIRE JOB HAS BEEN SCANNED. JOB WILL NOT EXECUTE.
9	(9)	CHARACTER	7	CNMBSRV1	RESERVED
16	(10)	ADDRESS	4	CNMBNPTR	POINTER TO NEXT BUFFER OR ZERO
20	(14)	CHARACTER	111	CNMBMSGA(0)	MESSAGE AREA IN VARIABLE LENGTH FORM
20	(14)	BITSTRING	1	CNMBMLEN	LENGTH OF MSG TEXT (EXCLUDING CNMBMLEN FIELD)
21	(15)	CHARACTER	1	CNMBMSG(0)	MESSAGE TEXT (<=110)
21	(15)	X'15'	0	CNMBSIZE	"*-CNMBBGN" Length of the fixed parameters

Table 469. Cross Reference for CNMB

Name	Offset	Hex Tag
CNMB	0	
CNMBBGN	0	0
CNMBFJOB	8	80
CNMBID	0	
CNMBLEN	6	
CNMBMLEN	14	
CNMBMSG	15	
CNMBMSGA	14	
CNMBNPTR	10	
CNMBOPTS	8	
CNMBSIZE	15	15
CNMBSRV1	9	
CNMBSUBP	5	
CNMBVER	4	

Chapter 105. CNZMYLGN Information

CNZMYLGN Programming Interface Information

CNZMYLGN is a programming interface.

CNZMYLGN Heading Information

Common Name:	Architected Logon Mapping
Macro ID:	CNZMYLGN
DSECT Name:	CNZ_tLgnStr, CNZ_tLgnOpnd
Owning Component:	Consoles (SC1CK)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: Anywhere Key: 0
Size:	CNZ_tLgnStr - 126 bytes CNZ_tLgnOpnd - 120 bytes
Created by:	IEECVET4
Pointed to by:	N/A - Maps the LOGON command image.
Serialization:	None
Function:	Maps the architected logon command string and the logon command operands. The logon command string contains the LOGON verb whereas the logon command operand contains the operands after the LOGON verb.

CNZMYLGN mapping

Table 470. Structure CNZ_TLGNSTR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CNZ_TLGNSTR	
0	(0)	CHARACTER	5	CNZLGNSTRKEYWORDLOGON	
5	(5)	CHARACTER	1		
6	(6)	CHARACTER	107	CNZLGNSTROPERAND	
6	(6)	CHARACTER	8	CNZLGNOPNDUSERID	
14	(E)	CHARACTER	1		
15	(F)	CHARACTER	8	CNZLGNOPNDKEYWORDPASSWORD	
23	(17)	CHARACTER	1		
24	(18)	CHARACTER	26	CNZLGNOPNDPASSWORD	
50	(32)	CHARACTER	1		
51	(33)	CHARACTER	11	CNZLGNOPNDKEYWORDOLDNEWNEW	
62	(3E)	CHARACTER	18		
80	(50)	CHARACTER	5	CNZLGNOPNDKEYWORDGROUP	
85	(55)	CHARACTER	1		
86	(56)	CHARACTER	8	CNZLGNOPNDGROUP	
94	(5E)	CHARACTER	1		
95	(5F)	CHARACTER	8	CNZLGNOPNDKEYWORDSECLABEL	
103	(67)	CHARACTER	1		
104	(68)	CHARACTER	8	CNZLGNOPNDSECLABEL	
112	(70)	CHARACTER	1	CNZLGNOPNDTRAILINGBLANK	

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Table 470. Structure CNZ_TLGNSTR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
126	(7E)	X'7E'	0	CNZ_TLGNSTR_LEN	"*-CNZ_TLGNSTR"

Table 471. Cross Reference for CNZMYLGN

Name	Offset	Hex Tag
CNZ_TLGNSTR	0	
CNZ_TLGNSTR_LEN	7E	7E
CNZLGNOPNDGROUP	56	
CNZLGNOPNDKEYWORDGROUP	50	
CNZLGNOPNDKEYWORDOLDNEWNEW	33	
CNZLGNOPNDKEYWORDPASSWORD	F	
CNZLGNOPNDKEYWORDSECLABEL	5F	
CNZLGNOPNDPASSWORD	18	
CNZLGNOPNDSECLABEL	68	
CNZLGNOPNDTRAILINGBLANK	70	
CNZLGNOPNDUSERID	6	
CNZLGNSTRKEYWORDLOGON	0	
CNZLGNSTROPERAND	6	

Chapter 106. CNZMYM2S Information

CNZMYM2S Programming Interface Information

CNZMYM2S is a programming interface.

CNZMYM2S Heading Information

Common Name:	Message To Syslog Exit Parameter List
Macro ID:	CNZMYM2S
DSECT Name:	M2SL
Owning Component:	Consoles (SC1CK)
Eye-Catcher ID:	'M2SL' Offset: 0 Length: 4
Storage Attributes:	Subpool: 229 Key: 0 Residency: 31-bit Storage
Size:	M2SL -- X'0030' bytes
Created by:	CNZQ1SLG
Pointed to by:	R1 on entry to all CNZ_MSGTOSYSLOG exit routines
Serialization:	None
Function:	Maps the parameter list passed to CNZ_MSGTOSYSLOG exit routines

CNZMYM2S mapping

Table 472. Structure M2SL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	M2SL	M2SL - Message to SYSLOG parameter list
0	(0)	CHARACTER	4	M2SL_ACRONYM	Acronym - 'M2SL'
4	(4)	BITSTRING	1	M2SL_VERSION	Version level of M2SL
5	(5)	BITSTRING	1		Reserved
6	(6)	SIGNED	2	M2SL_LENGTH	Length of the M2SL
8	(8)	CHARACTER	12	M2SL_VARIABLE(0)	Area to be cleared for each message instance
8	(8)	SIGNED	4	M2SL_FLAGS(0)	Flags
8	(8)	BITSTRING	1	M2SL_FLAG1(0)	First flag byte
		1...		M2SL_MLWTO	"X'80'" When set, message is a MLWTO
		.1..		M2SL_MINORLINE	"X'40'" When set, this call is for a minor line (M2SL_WMNM is valid)
		..1.		M2SL_LASTLINE	"X'20'" When set, this call is for the last line of a MLWTO
9	(9)	SIGNED	3		
12	(C)	ADDRESS	4	M2SL_WQE@	Pointer to single or major line WQE

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Table 472. Structure M2SL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	ADDRESS	4	M2SL_WMNM@	Pointer to the half minor line or zero
20	(14)	ADDRESS	4	M2SL_WORKAREA@	Pointer to 4k workarea for the exit. Each exit routine will share the same 4k workarea. It is up to the exit routine to initialize the workarea.
24	(18)	CHARACTER	24		Reserved
48	(30)	CHARACTER	1	M2SL_END(0)	End of M2SL structure
Constants					
48	(30)	X'1'	0	M2SL_KVERSIONJBB7727	"1"
48	(30)	X'1'	0	M2SL_KVERSIONCURRENT	"1"
48	(30)	X'F2E2D3'	0	M2SL_KACRONYM	"C'M2SL'"
48	(30)	X'30'	0	M2SL_LEN	"*-M2SL"

Table 473. Cross Reference for CNZMYM2S

Name	Offset	Hex Tag
M2SL	0	
M2SL_ACRONYM	0	
M2SL_END	30	
M2SL_FLAGS	8	
M2SL_FLAG1	8	
M2SL_KACRONYM	30	F2E2D3
M2SL_KVERSIONCURRENT	30	1
M2SL_KVERSIONJBB7727	30	1
M2SL_LASTLINE	8	20
M2SL_LEN	30	30
M2SL_LENGTH	6	
M2SL_MINORLINE	8	40
M2SL_MLWTO	8	80
M2SL_VARIABLE	8	
M2SL_VERSION	4	
M2SL_WMNM@	10	
M2SL_WORKAREA@	14	
M2SL_WQE@	C	

Chapter 107. CNZMYQUA Information

CNZMYQUA Programming Interface Information

CNZMYQUA is a programming interface.

CNZMYQUA Heading Information

Common Name:	CNZQUERY Answer Area
Macro ID:	CNZMYQUA
DSECT Name:	CnzmyquaHdr
Owning Component:	Consoles (SC1CK)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: Caller-supplied Key: Caller-supplied Residency: Caller-supplied
Size:	CnzmyquaHdr -- X'0050' bytes
Created by:	Caller. Designated by ANSAREAALET keyword on CNZQUERY
Pointed to by:	CNZQUERY parameter list
Serialization:	None required
Function:	Maps the data returned by the CNZQUERY macro. The returned information consists of a header (CnzmyquaHdr) which contains queue headers for the requested data.

CNZMYQUA mapping

Table 474. Structure CNZMYQUAHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CNZMYQUAHDR	Header section
0	(0)	ADDRESS	4	CNZMYQUAH_FIRST_IA_WQE_ADDR	Address of first immediate action WQE when AMRF=YES. Mapped by IHAWQE
4	(4)	ADDRESS	4	CNZMYQUAH_FIRST_EA_WQE_ADDR	Address of first eventual action WQE when AMRF=YES. Mapped by IHAWQE
8	(8)	ADDRESS	4	CNZMYQUAH_FIRST_CEA_WQE_ADDR	Address of first critical eventual action WQE when AMRF=YES. Mapped by IHAWQE
12	(C)	ADDRESS	4	CNZMYQUAH_FIRST_ORE_ADDR	First ORE address when WTOR=YES. Mapped by IHAORE. Each ORE contains the address of the associated WQE (mapped by IHAWQE).
16	(10)	CHARACTER	4	CNZMYQUAH_AMRF_STATUS	
16	(10)	BITSTRING	1	CNZMYQUAH_AMRF_STATUS_BYTE0	
Bit definitions:					

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Table 474. Structure CNZMYQUAHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CNZMYQUAH_AMRF_ACTIVE	"X'80'" When 1, AMRF is active
20	(14)	CHARACTER	4	CNZMYQUAH_VALIDITY	
20	(14)	BITSTRING	1	CNZMYQUAH_VALIDITY_BYTE0	
Bit definitions:					
		1...		CNZMYQUAH_VALID_WTOR_INFO	"X'80'" The requested WTOR information is successfully returned
		.1..		CNZMYQUAH_VALID_AMRF_INFO	"X'40'" The requested AMRF information is successfully returned
24	(18)	CHARACTER	40		Reserved
64	(40)	CHARACTER	16	CNZMYQUAH_NONINTERFACE1	
64	(40)	X'1000'	0	CNZMYQUAHDR_ADDR	"4096" Location within the data space of CnzmyquaHdr
Return Code / Reason code constants for CNZQUERY. It is guaranteed that no reason code will be reused (i.e., the same reason code will not be used for more than one return code). Also note carefully that bits 0-15 of the reason code may contain component-diagnostic data and must not be assumed to be 0.					
64	(40)	BITSTRING	0	CNZQUERYRSNCODEMASK	"X'0000FFFF'" Use this mask to isolate the non component-diagnostic portion of the reason code.
CNZQUERY Return and Reason Code definitions					
		....		CNZQUERYRC_OK	"X'00000000'" Meaning: CNZQUERY request successful. Action: None required.
		.... 1...		CNZQUERYRC_INVPARM	"X'00000008'" Meaning: CNZQUERY request specifies invalid parameters. Action: Refer to action under the individual reason code.
64	(40)	BITSTRING	0	CNZQUERYRSN_BADPARMLIST	"X'00000801'" Meaning: Unable to access parameter list. Action: Check for possible storage overlay.
64	(40)	BITSTRING	0	CNZQUERYRSN_SRBMODE	"X'00000802'" Meaning: SRB mode. Action: Avoid requesting this function in SRB mode.
64	(40)	BITSTRING	0	CNZQUERYRSN_NOTENABLED	"X'00000803'" Meaning: Not Enabled. Action: Avoid requesting this function while not enabled.
64	(40)	BITSTRING	0	CNZQUERYRSN_BADANSAREAALET	"X'00000804'" Meaning: Bad answer area ALET. Action: Make sure that the ALET associated with the answer area is valid. The access register might not have been set up correctly.

Table 474. Structure CNZMYQUAHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
64	(40)	BITSTRING	0	CNZQUERYRSN_BADANSAREA	"X'00000805'" Meaning: Error accessing answer area. Action: Make sure that the provided answer area is valid.
64	(40)	BITSTRING	0	CNZQUERYRSN_RESERVEDNOT0	"X'00000806'" Meaning: Reserved field not 0. Action: Check for possible storage overlay of the parameter list.
64	(40)	BITSTRING	0	CNZQUERYRSN_BADPARMLISTALET	"X'00000807'" Meaning: Bad parmlist ALET. Action: Make sure that the ALET of the parameter list is. valid. The access register might not have been set up correctly.
64	(40)	BITSTRING	0	CNZQUERYRSN_BADVERSION	"X'00000808'" Meaning: Bad version number. Action: Check for possible storage overlay of the parameter list.
64	(40)	BITSTRING	0	CNZQUERYRSN_LOCKED	"X'00000809'" Meaning: Locked Action: Avoid requesting this function in this environment.
64	(40)	BITSTRING	0	CNZQUERYRSN_FRR	"X'0000080A'" Meaning: An FRR is set Action: Avoid requesting this function in this environment.
		...1		CNZQUERYRC_COMPERROR	"X'00000010'" Meaning: Unexpected failure. Action: Refer to the action provided with the specific reason code.
64	(40)	BITSTRING	0	CNZQUERYRSN_COMPERROR	"X'00001001'" Meaning: Unexpected failure. The state of the request is unpredictable. Action: Contact your system programmer.
64	(40)	X'50'	0	CNZMYQUAHDR_LEN	"*-CnzmyquaHdr"

Table 475. Cross Reference for CNZMYQUA

Name	Offset	Hex Tag
CNZMYQUAH_AMRF_ACTIVE	10	80
CNZMYQUAH_AMRF_STATUS	10	
CNZMYQUAH_AMRF_STATUS_BYTE0	10	
CNZMYQUAH_FIRST_CEA_WQE_ADDR	8	
CNZMYQUAH_FIRST_EA_WQE_ADDR	4	
CNZMYQUAH_FIRST_IA_WQE_ADDR	0	
CNZMYQUAH_FIRST_ORE_ADDR	C	
CNZMYQUAH_NONINTERFACE1	40	
CNZMYQUAH_VALID_AMRF_INFO	14	40
CNZMYQUAH_VALID_WTOR_INFO	14	80
CNZMYQUAH_VALIDITY	14	
CNZMYQUAH_VALIDITY_BYTE0	14	
CNZMYQUAHDR	0	

Table 475. Cross Reference for CNZMYQUA (continued)

Name	Offset	Hex Tag
CNZMYQUAHDR_ADDR	40	1000
CNZMYQUAHDR_LEN	40	50
CNZQUERYRC_COMPERROR	40	10
CNZQUERYRC_INVPARM	40	8
CNZQUERYRC_OK	40	0
CNZQUERYRSN_BADANSAREA	40	805
CNZQUERYRSN_BADANSAREAALET	40	804
CNZQUERYRSN_BADPARMLIST	40	801
CNZQUERYRSN_BADPARMLISTALET	40	807
CNZQUERYRSN_BADVERSION	40	808
CNZQUERYRSN_COMPERROR	40	1001
CNZQUERYRSN_FRR	40	80A
CNZQUERYRSN_LOCKED	40	809
CNZQUERYRSN_NOTENABLED	40	803
CNZQUERYRSN_RESERVEDNOT0	40	806
CNZQUERYRSN_SRBMODE	40	802
CNZQUERYRSNCODEMASK	40	FFFF

Chapter 108. CNZMYSMF Information

CNZMYSMF Programming Interface Information

CNZMYSMF is a programming interface.

CNZMYSMF Heading Information

Common Name:	Console SMF record 90 subtype 33
Macro ID:	CNZMYSMF
DSECT Name:	SMF90T33
Owning Component:	Console (SC1CK)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: N/A Key: N/A Residency: N/A
Size:	SMF90T33 -- X'0058' bytes
Created by:	SET AUTOR processing
Pointed to by:	N/A
Serialization:	None required
Function:	Maps the data provided for SMF record type 90 subtype 33

CNZMYSMF mapping

Table 476. Structure SMF90T33

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF90T33	SMF record type 90 subtype 33
0	(0)	CHARACTER	8	SMF90T33_TIMESTAMP	Time of auto-reply policy change
8	(8)	SIGNED	4	SMF90T33_#_SUFFIXES	Count of AUTORxx suffixes used to set the policy
12	(C)	CHARACTER	2	SMF90T33_SUFFIXES	Array of AUTORxx suffixes
88	(58)	X'58'	0	SMF90T33_LEN	"*-SMF90T33"

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Chapter 109. CNZMYWMX Information

CNZMYWMX Programming Interface Information

CNZMYWMX is a programming interface.

CNZMYWMX Heading Information

Common Name:	WTO MDB User Exit Parameter List
Macro ID:	CNZMYWMX
DSECT Name:	WMDX
Owning Component:	Consoles (SC1CK)
Eye-Catcher ID:	'WMDX' Offset: 0 Length: 4
Storage Attributes:	Subpool: 229 Key: 0 Residency: 31-bit Storage
Size:	WMDX -- X'00D0' bytes CNZ_TWMDX_PLIST -- X'0008' bytes
Created by:	CNZS1WTO, CNZSCLOT
Pointed to by:	R1 points to a parameter list mapped by CNZ_tWMDX_PList which contains a pointer to the WMDX control block and a pointer to 4K user workarea which is shared by users of the CNZ_WTOMDBEXIT exit point.
Serialization:	None
Function:	Maps the parameter list passed to CNZ_WTOMDBEXIT exit routines

CNZMYWMX mapping

Table 477. Structure WMDX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	WMDX	WMDX - WtoMDB Exit Parameter
0	(0)	CHARACTER	8	WMDX_HEADER	WMDX Header
0	(0)	CHARACTER	4	WMDX_ACRONYM	Acronym - 'WMDX'
4	(4)	BITSTRING	1	WMDX_VERSION	Version level of WMDX
5	(5)	CHARACTER	1		Reserved
6	(6)	SIGNED	2	WMDX_LENGTH	Length of the WMDX
8	(8)	CHARACTER	176	WMDX_MSGDATA	Message data
8	(8)	BITSTRING	2	WMDX_FLAGS	Flags
8	(8)	BITSTRING	1	WMDX_FLAG1	First flag byte
Bit definitions:					
	1...			WMDX_SLWTO	"X'80'" Message is a single-line WTO
	.1..			WMDX_MLWTO	"X'40'" Message is a multi-line WTO
	..1.			WMDX_BEWTO	"X'20'" Message is a branch-entry WTO

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Table 477. Structure WMDX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		WMDX_WTOR	"X'10'" Message is a WTOR
		.... 1...		WMDX_FOREIGN	"X'08'" Message originated from a system outside this system
9	(9)	BITSTRING	1		Reserved
10	(A)	CHARACTER	2		Reserved
12	(C)	BITSTRING	4	WMDX_DOMID	DOMID/Sequence number
16	(10)	SIGNED	2	WMDX_TEXTLEN	Length of imbedded msg text
18	(12)	CHARACTER	128	WMDX_MSGTEXT	First Line of message text
146	(92)	SIGNED	2	WMDX_ASID	ASID of msg issuer
148	(94)	CHARACTER	8	WMDX_REPLYID	Reply ID of WTOR
156	(9C)	CHARACTER	8	WMDX_SYSNM	Message origination system
164	(A4)	CHARACTER	8	WMDX_JOBNM	Jobname
172	(AC)	CHARACTER	4		Reserved
176	(B0)	SIGNED	4	WMDX_MDB_ALET	ALET associated with this MDB
180	(B4)	ADDRESS	4	WMDX_MDB_PTR	pointer to MDB
184	(B8)	CHARACTER	24		Reserved
208	(D0)	CHARACTER	1	WMDX_END(0)	End of WMDX structure
Constants					
208	(D0)	X'1'	0	WMDX_KVERSIONHBB7730	"1"
208	(D0)	X'1'	0	WMDX_KVERSIONCURRENT	"1"
208	(D0)	X'D4C4E7'	0	WMDX_KACRONYM	"C'WMDX'"
208	(D0)	X'D0'	0	WMDX_LEN	"*-WMDX"

Table 478. Structure CNZ_TWMDX_PLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CNZ_TWMDX_PLIST	Linkage structure for WMDX
0	(0)	ADDRESS	4	WMDX_PTR	Pointer to WMDX
4	(4)	ADDRESS	4	WMDX_WORKAREA@	Pointer to user workarea
4	(4)	X'8'	0	CNZ_TWMDX_PLIST_LEN	"*-CNZ_TWMDX_PLIST"

Table 479. Cross Reference for CNZMYWMX

Name	Offset	Hex Tag
CNZ_TWMDX_PLIST	0	
CNZ_TWMDX_PLIST_LEN	4	8
WMDX	0	
WMDX_ACRONYM	0	
WMDX_ASID	92	
WMDX_BEWTO	8	20
WMDX_DOMID	C	
WMDX_END	D0	
WMDX_FLAGS	8	
WMDX_FLAG1	8	
WMDX_FOREIGN	8	8
WMDX_HEADER	0	
WMDX_JOBNM	A4	
WMDX_KACRONYM	D0	D4C4E7
WMDX_KVERSIONCURRENT	D0	1

Table 479. Cross Reference for CNZMYWMX (continued)

Name	Offset	Hex Tag
WMDX_KVERSIONHBB7730	D0	1
WMDX_LEN	D0	D0
WMDX_LENGTH	6	
WMDX_MDB_ALET	B0	
WMDX_MDB_PTR	B4	
WMDX_MLWTO	8	40
WMDX_MSGDATA	8	
WMDX_MSGTEXT	12	
WMDX_PTR	0	
WMDX_REPLYID	94	
WMDX_SLWTO	8	80
WMDX_SYSNM	9C	
WMDX_TEXTLEN	10	
WMDX_VERSION	4	
WMDX_WORKAREA@	4	
WMDX_WTOR	8	10

Chapter 110. CNZTRPL Information

CNZTRPL Programming Interface Information

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

- TRPL_Workarea

CNZTRPL Heading Information

Common Name:	Tracking Facility Request Parameter List (TRPL)
Macro ID:	CNZTRPL
DSECT Name:	TRPL
Owning Component:	Consoles (SC1CK)
Eye-Catcher ID:	TRPL Offset: 0 Length: 4
Storage Attributes:	Subpool: Caller defined Key: Caller defined Residency: Any
Size:	TRPL -- 80 bytes TRPL -- X'0050' bytes
Created by:	Issuer of CNZTRKR
Pointed to by:	R1 when invoking CNZTRKR
Serialization:	None
Function:	Parameter list for the CNZTRKR macro

CNZTRPL mapping

Table 480. Structure TRPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TRPL	
0	(0)	CHARACTER	4	TRPL_ACRO	"TRPL"
4	(4)	BITSTRING	1	TRPL_VERSION	Version of TRPL
5	(5)	BITSTRING	1	TRPL_REQUESTS	Request flags
Bit definitions:					
		1...		TRPL_DONT_ABEND	"X'80'" Don't ABEND this instance request
6	(6)	CHARACTER	2		Reserved
8	(8)	CHARACTER	28	TRPL_TRACK_INFO	Track info to be recorded
36	(24)	SIGNED	4	TRPL_TRACK_VALUE	Track value to be recorded
40	(28)	ADDRESS	4	TRPL_VIOLATORS_ADDR	Pointer to where the event occurred. Address will be used to determine program name. If zero, CNZTRKR will attempt to determine program name.
44	(2C)	CHARACTER	4		Reserved
48	(30)	CHARACTER	32	TRPL_WORKAREA	Workarea for CNZTRKR
Version Levels and Acronym definitions					
48	(30)	X'D9D7D3'	0	TRPL_K_CHAR	"C'TRPL'" Acronym

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Table 480. Structure TRPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	X'1'	0	TRPL_K_CURR_VERSION	"1" Current version level
48	(30)	X'1'	0	TRPL_K_JBB7727	"1" Initial version level
		Return and associated reason codes Note: For additional reason codes, in particular for return codes 8 and 12, see also GTZZTRK.			
48	(30)	X'0'	0	TRPL_K_RC_OK	"0" Request successful
48	(30)	X'4'	0	TRPL_K_RC_TRACKING_NOT_AVAIL	"4" Tracking is not available
48	(30)	X'4'	0	TRPL_K_RSN_MAX_INSTANCES_DEFINED	"4" The maximum number of recorded instances has been reached
48	(30)	X'8'	0	TRPL_K_RSN_TRACKING_NOT_ACTIVE	"8" Tracking facility is not active
48	(30)	X'C'	0	TRPL_K_RC_INVALID_PARM_DATA	"12" Data in parm list is invalid
48	(30)	X'4'	0	TRPL_K_RSN_INVALID_ACRONYM	"4" Invalid acronym/version level
48	(30)	X'8'	0	TRPL_K_RSN_INVALID_TRACK_INFO	"8" Track information is not valid
48	(30)	X'C'	0	TRPL_K_RSN_INVALID_PARM_LIST_ADDR	"12" Can not access parm list
48	(30)	X'10'	0	TRPL_K_RC_SYSTEM_ERROR	"16" A necessary system service was not available
48	(30)	X'4'	0	TRPL_K_RSN_NO_RECOVERY	"4" Could not establish recovery
48	(30)	X'8'	0	TRPL_K_RSN_NO_SERIALIZATION_ENV	"8" Serialization environment could not be established
48	(30)	X'C'	0	TRPL_K_RSN_ABEND	"12" ABEND occurred during processing
48	(30)	X'10'	0	TRPL_K_RSN_GTZTRACK_REJECTED	"16" GTZTRACK rejected the tracking request.
48	(30)	X'50'	0	TRPL_LEN	"*-TRPL"

Table 481. Cross Reference for CNZTRPL

Name	Offset	Hex Tag
TRPL	0	
TRPL_ACRO	0	
TRPL_DONT_ABEND	5	80
TRPL_K_CHAR	30	D9D7D3
TRPL_K_CURR_VERSION	30	1

Table 481. Cross Reference for CNZTRPL (continued)

Name	Offset	Hex Tag
TRPL_K_JBB7727	30	1
TRPL_K_RC_INVALID_PARM_DATA	30	C
TRPL_K_RC_OK	30	0
TRPL_K_RC_SYSTEM_ERROR	30	10
TRPL_K_RC_TRACKING_NOT_AVAIL	30	4
TRPL_K_RSN_ABEND	30	C
TRPL_K_RSN_GTZTRACK_REJECTED	30	10
TRPL_K_RSN_INVALID_ACRONYM	30	4
TRPL_K_RSN_INVALID_PARM_LIST_ADDR	30	C
TRPL_K_RSN_INVALID_TRACK_INFO	30	8
TRPL_K_RSN_MAX_INSTANCES_DEFINED	30	4
TRPL_K_RSN_NO_RECOVERY	30	4
TRPL_K_RSN_NO_SERIALIZATION_ENV	30	8
TRPL_K_RSN_TRACKING_NOT_ACTIVE	30	8
TRPL_LEN	30	50
TRPL_REQUESTS	5	
TRPL_TRACK_INFO	8	
TRPL_TRACK_VALUE	24	
TRPL_VERSION	4	
TRPL_VIOLATORS_ADDR	28	
TRPL_WORKAREA	30	

Chapter 111. COM Information

COM Programming Interface Information

COM is a programming interface.

COM Heading Information

Common Name:	COMMUNICATIONS PARAMETER LIST
Macro ID:	IEZCOM
DSECT Name:	None
Owning Component:	Master Scheduler (SC1B8)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 245 Key: 0
Size:	12 bytes
Created by:	EXTRACT macro
Pointed to by:	User-defined field
Serialization:	None
Function:	Contains information returned by the EXTRACT macro with the FIELDS=COMM option.

COM mapping

Table 482. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

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Table 482. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		%COMCMT:; START OF SPECIFICATIONS 01 DESCRIPTIVE NAME: COMMUNICATIONS PARAMETER LIST 01 MACRO NAME: IEZCOM 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: 01 DSECT NAME: None 01 PROPRIETARY STATEMENT: 01 METHOD OF ACCESS: 01 COMPONENT: Master Scheduler (SC1B8) 01 EYE-CATCHER: None 01 STORAGE ATTRIBUTES: 02 SUBPOOL: 245 02 KEY: 0 01 SIZE: 12 bytes 01 CREATED BY: EXTRACT macro 01 POINTED TO BY: User-defined field 01 SERIALIZATION: None 01 FUNCTION: 02 Contains information returned by the EXTRACT macro with the FIELDS=COMM option. END OF SPECIFICATIONS %GOTO COMPLS;			
0	(0)	DBL WORD	8	(0)	
0	(0)	X'0'	0	COMLIST	"*" COMPTR -> COMMUNICATIONS PARAMETER LIST
0	(0)	ADDRESS	4	COMECBPT	- PTR TO ECB FOR STOP OR MODIFY COMMAND
4	(4)	ADDRESS	4	COMCIBPT	- PTR TO COMMAND INPUT BUFFER (CIB) MAPPED BY THE MACRO IEZCIB
8	(8)	CHARACTER	4	COMTOKEN	- 31 BIT RIGHT JUSTIFIED TOKEN (MDC001)
		1...		COMTOKHR	"X'80'" - BIT = 1 INDICATES A TOKEN PRESENT (MDC001) END OF IEZCOM

Chapter 112. CONV Information

CONV Programming Interface Information

CONV is a programming interface.

CONV Heading Information

Common Name:	ConVCon Parameter List (CONV) CnzConv Constants (CnzConv)
Macro ID:	IEZVG200
DSECT Name:	CONV
Owning Component:	CONSOLE (SC1CK)
Eye-Catcher ID:	CONV Offset: 0 Length: 4
Storage Attributes:	Subpool: Subpool of caller Key: Key of caller Residency: Any
Size:	CONV -- X'0034' bytes
Created by:	CALLER OF CONVCON SERVICE
Pointed to by:	Register 1 of caller
Serialization:	NONE
Function:	PROVIDES A MAPPING OF THE CONVCON PARAMETER LIST (CONV). Provides declares for the CnzConv macro.

CONV mapping

Table 483. Structure CONV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CONV	CONV parameter list
0	(0)	CHARACTER	4	CONVACRO	Acronym - 'CONV'
4	(4)	BITSTRING	1	CONVVRSN	Version level
5	(5)	BITSTRING	1	CONVFLGS	Communication flags
Bit definitions:					
		1...		CONVPFLD	"X'80'" ON - indicates process CONVFLD
		.1..		CONVPID	"X'40'" ON - indicates process CONVID
6	(6)	BITSTRING	2	CONVRSV1	Reserved
8	(8)	CHARACTER	10	CONVFLD	EBCDIC input field
18	(12)	CHARACTER	1	CONVAREA	Area ID
19	(13)	CHARACTER	1	CONVRSN	Reason Code
20	(14)	CHARACTER	8	CONVNAME	Console name
28	(1C)	SIGNED	4	CONVID	Console Id
28	(1C)	BITSTRING	1	CONVCLAS	Console Class
29	(1D)	SIGNED	3	CONVCNUM	Console number
32	(20)	BITSTRING	1	CONVGFLG	General Flags
Bit definitions:					

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Table 483. Structure CONV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CONVNPAR	"X'80'" ON - indicates do not process area id
		.1..		CONVSMCS	"X'40'" ON indicates SMCS Console
33	(21)	CHARACTER	7	CONVRSV3	Reserved
40	(28)	CHARACTER	8	CONVSYSN	System name
48	(30)	ADDRESS	4	CONVPTR	Pointer to conv
48	(30)	X'2'	0	CONVRID	"2" Current version level
48	(30)	X'30'	0	CONVPLEN	"48" Length of the CONV parameter list
48	(30)	X'D6D5E5'	0	CONVCHRS	"C'CONV'" Characters for acronym
48	(30)	X'1'	0	CONVSP41	"1" Version level for SP
48	(30)	X'2'	0	CONV7730	"2" Version level for HBB7730
CONVCON Return and Reason Code definitions					CONVCON PROCESSOR entry point
48	(30)	X'0'	0	CONVCONRET0_CONSOLEACTIVE	"0" Meaning: The input console is active. Action: Examine the reason code to determine how to proceed.
48	(30)	X'0'	0	CONVCONRSN0_AREAIDVALID	"0" Meaning: The area ID (if specified) is syntactically valid. Action: None.
48	(30)	X'C'	0	CONVCONRSNC_AREAIDINVALID	"12" Meaning: Program error. The area id specified is not syntactically valid. Action: Correct the area ID specification. The area ID must be a letter between A-K or Z.
48	(30)	X'10'	0	CONVCONRSN10_AREAIDWRONGLENGTH	"16" Meaning: Program error. The area ID was either not specified after the dash or additional non-blank characters were specified after the area ID in CONVFLD. Action: Correct the area ID specification. The area ID must be a letter between A-K or Z.
48	(30)	X'4'	0	CONVCONRET4_CONSOLEINACTIVE	"4" Meaning: The input console is inactive. Action: Messages cannot be sent to this console. You must direct messages elsewhere. Examine the reason code for additional information.
48	(30)	X'8'	0	CONVCONRET8_CONSOLENAMENOTFOUND	"8" Meaning: The input console name was not found. Action: Examine the reason code to determine how to proceed.

Table 483. Structure CONV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	X'0'	0	CONVCONRSN0_BADNAME	"0" Meaning: Program error. The console name specified is not valid for one of the following reasons: (1) No console with the specified name exists. (2) You specified an area ID with the console name, but you also set the flag CONVNPAR in the CONVFLGS field of the CONV parameter list. (3) You specified a console name with more than 8 characters. Action: Take the action number corresponding to the meaning number. (1) Change the console name to one that is defined in the sysplex. (2) Remove the area ID after the console name, or turn off the CONVNPAR flag in the CONV parameter list. (3) Correct the console name.
48	(30)	X'8'	0	CONVCONRSN8_INVALIDSYNTAX	"8" Meaning: Program error. The console name specified contains invalid syntax. Action: Correct the syntax of the console name and resubmit the request.
48	(30)	X'C'	0	CONVCONRSNC_NAMEISRESERVED	"12" Meaning: Program error. The console name specified is a reserved console name. Action: Correct the problem and resubmit the request.
48	(30)	X'C'	0	CONVCONRETC_INCORRECTCONSOLEID	"12" Meaning: Program error. You specified an incorrect console ID on input. Action: Specify a valid 4-byte console id. Correct the problem and resubmit the request.
48	(30)	X'10'	0	CONVCONRET10_NOTAVAILABLE	"16" Meaning: Environmental error. The ConVCon service is not available Action: Resubmit the request at a later time.
48	(30)	X'14'	0	CONVCONRET14_IBMDIAGNOSTIC	"20" Meaning: System error. These codes are for IBM diagnostic purposes only. Action: Supply the return code, reason code, CNZ0001I message, and the dump to the appropriate IBM support personel.
48	(30)	X'18'	0	CONVCONRET18_NOINPUTSPECIFIED	

Table 483. Structure CONV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"24" Meaning: Program error. CONVCON processing completed unsuccessfully. You did not specify whether a console name or a console ID was being supplied as input. Action: Ensure that exactly one of the console input flags in field CONVFLGS is on and resubmit the request.
48	(30)	X'1C'	0	CONVCONRET1C_TOOMUCHINPUT	"28" Meaning: Program error. CONVCON processing completed unsuccessfully. You specified both the console name and console ID values in CONVFLGS. Action: Ensure that you only have one of the console input flags in field CONVFLGS is on and resubmit the request.
48	(30)	X'20'	0	CONVCONRET20_BADACRONYM	"32" Meaning: Program error. CONVCON processing completed unsuccessfully. The CONV acronym was missing in the CONV parameter list. Action: Ensure that you are correctly referencing the parameter list issuing CONVCON, and that the parameter list is correct. Resubmit the request.
48	(30)	X'24'	0	CONVCONRET24_HOLDINGLOCKS	"36" Meaning: Program error. CONVCON was called while holding a lock. Action: Correct the program to invoke CONVCON while no locks are held.
48	(30)	X'28'	0	CONVCONRET28_INCORRECTENV	"40" Meaning: The CONVCON service was invoked in an incorrect environment. Action: Invoke the CONVCON service in a valid environment.
End of CONVCON Return and Reason Code definitions Console Types. A console type will be returned for any console name or console id query that completes successfully.					
48	(30)	X'1'	0	CNZCONV_KTYPE_MCS	"1"
48	(30)	X'2'	0	CNZCONV_KTYPE_SMCS	"2"
48	(30)	X'3'	0	CNZCONV_KTYPE_SUBSYS	"3"
48	(30)	X'4'	0	CNZCONV_KTYPE_EMCS	"4"
48	(30)	X'5'	0	CNZCONV_KTYPE_SPECIAL	"5"

Table 483. Structure CONV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Console SubTypes Note: Subtypes Internal, Instream, Unknown, and JES3 will appear only with a console type of special. Subtype SysCon will appear only with a console type of EMCS. Subtype HMCS will appear only with a console type of MCS. When no console subtype is associated with the input console, the console subtype will be binary zeros (N/A).			
48	(30)	X'1'	0	CNZCONV_KSUBTYPE_INTERNAL	"1" Possible only for a console type of special
48	(30)	X'2'	0	CNZCONV_KSUBTYPE_INSTREAM	"2" Possible only for a console type of special
48	(30)	X'3'	0	CNZCONV_KSUBTYPE_UNKNOWN	"3" Possible only for a console type of special
48	(30)	X'4'	0	CNZCONV_KSUBTYPE_JES3	"4" Possible only for a console type of special
48	(30)	X'5'	0	CNZCONV_KSUBTYPE_SYSCON	"5" Possible only for a console type of EMCS
48	(30)	X'6'	0	CNZCONV_KSUBTYPE_HMCS	"6" Possible only for a console type of MCS
		Console Status Note: The console status will be returned for a console whose console type is one of the following: MCS SMCS SubSys EMCS When the input console has a console type of Special, the console status will be binary zeros (N/A).			
48	(30)	X'1'	0	CNZCONV_KSTATUS_INACTIVE	"1"
48	(30)	X'2'	0	CNZCONV_KSTATUS_ACTIVE	"2"
		Return and reason code definitions for CNZCONV CNZCONV Return and Reason Code definitions			
		....		CNZCONVRC0_OK	"X'00000000'" Meaning: The input console name or id was found and the applicable requested data was returned. Action: None required.
		.... .1..		CNZCONVRC4_CONDITIONALLYOK	"X'00000004'" Meaning: The request completed successfully with an exception. Action: Examine the reason code to determine how to proceed.
48	(30)	BITSTRING	0	CNZCONVRSN401_IDNOTFOUND	"X'00000401'" Meaning: The console id in InConsoleId is not associated with any console. Action: Correct the console id in InConsoleId to be the id of a defined console or take appropriate action when the console id in InConsoleId was not found.

Table 483. Structure CONV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	BITSTRING	0	CNZCONVRSN402_NAMENOTFOUND	"X'00000402'" Meaning: The console name in InConsoleName is not associated with any console. Action: Correct the console name in InConsoleName to be the name of a defined console or take appropriate action when the console name in InConsoleName was not found.
48	(30)	BITSTRING	0	CNZCONVRSN403_NAMEISRESERVED	"X'00000403'" Meaning: The input console name is a reserved console name. Action: Correct the console name in InConsoleName to be the name of a defined console or take appropriate action when the console name in InConsoleName is reserved.
		.... 1...		CNZCONVRC8_SPECIFICATIONERROR	"X'00000008'" Meaning: An error was detected in the CnzConv parameter list. None of the requested data has been returned. Action: Correct the CnzConv parameter list. Examine the reason code to determine how to proceed.
48	(30)	BITSTRING	0	CNZCONVRSN801_BADPLISTVER	"X'00000801'" Meaning: The PLISTVER in the CnzConv parameter list is incorrect. Action: Correct the PLISTVER in the CnzConv parameter list.
48	(30)	BITSTRING	0	CNZCONVRSN802_EXTRANEOUSINPUT	"X'00000802'" Meaning: InConsoleName and InConsoleId are mutually exclusive keywords but both were specified. Action: Specify one and only one of the following keywords: InConsoleName or InConsoleId.
48	(30)	BITSTRING	0	CNZCONVRSN803_INCOMPLETEARGS	"X'00000803'" Meaning: Neither InConsoleName nor InConsoleId keyword was specified. Action: Specify one and only one of the following keywords: InConsoleName or InConsoleId.
48	(30)	BITSTRING	0	CNZCONVRSN804_NAMEINVALIDSYNTAX	"X'00000804'" Meaning: The console name in InConsoleName is syntactically invalid and cannot be a console name. Action: Correct the input console name.
48	(30)	BITSTRING	0	CNZCONVRSN805_RSVSPACENOTZERO	

Table 483. Structure CONV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000805'" Meaning: Reserved space in the CnzConv parameter list is not binary zeros. Action: Correct the CnzConv parameter list so that the reserved space contains binary zeros.
		.... 11..		CNZCONVRCC_ERROR	"X'0000000C'" Meaning: The request failed to complete successfully. None of the requested data has been returned. Action: Examine the reason code to determine how to proceed.
48	(30)	BITSTRING	0	CNZCONVRSNC01_NOTAVAILABLE	"X'00000C01'" Meaning: The CnzConv service is not available at this time. This typically would not occur after system initialization. Action: Resubmit your request at a later time.
48	(30)	BITSTRING	0	CNZCONVRSNC02_INCORRECTENV	"X'00000C02'" Meaning: The CnzConv service was invoked in an incorrect environment. Action: Invoke the CnzConv service in the correct environment.
		...1		CNZCONVRC10_UNEXPECTEDERROR	"X'00000010'" Meaning: Unexpected failure occurred. The outcome of the request is unpredictable, meaning that it may have completed successfully, or partially, or not at all. All, some, or none of the data requested has been returned. A dump may have been taken. Action: Examine the reason code to determine how to proceed.
48	(30)	BITSTRING	0	CNZCONVRSN1001_SEVEREERROR	"X'00001001'" Meaning: The CnzConv service was unable to complete your request due to an unexpected error processing the CnzConv request. Action: Supply the return code, reason code, and the dump to the appropriate IBM support personel.
48	(30)	X'34'	0	CONVGLEN	"*-CONV"

Table 484. Cross Reference for CONV

Name	Offset	Hex Tag
CNZCONV_KSTATUS_ACTIVE	30	2
CNZCONV_KSTATUS_INACTIVE	30	1
CNZCONV_KSUBTYPE_HMCS	30	6
CNZCONV_KSUBTYPE_INSTREAM	30	2

Table 484. Cross Reference for CONV (continued)

Name	Offset	Hex Tag
CNZCONV_KSUBTYPE_INTERNAL	30	1
CNZCONV_KSUBTYPE_JES3	30	4
CNZCONV_KSUBTYPE_SYSCON	30	5
CNZCONV_KSUBTYPE_UNKNOWN	30	3
CNZCONV_KTYPE_EMCS	30	4
CNZCONV_KTYPE_MCS	30	1
CNZCONV_KTYPE_SMCS	30	2
CNZCONV_KTYPE_SPECIAL	30	5
CNZCONV_KTYPE_SUBSYS	30	3
CNZCONVRCC_ERROR	30	C
CNZCONVRC0_OK	30	0
CNZCONVRC10_UNEXPECTEDERROR	30	10
CNZCONVRC4_CONDITIONALLYOK	30	4
CNZCONVRC8_SPECIFICATIONERROR	30	8
CNZCONVRSNC01_NOTAVAILABLE	30	C01
CNZCONVRSNC02_INCORRECTENV	30	C02
CNZCONVRSN1001_SEVEREERROR	30	1001
CNZCONVRSN401_IDNOTFOUND	30	401
CNZCONVRSN402_NAMENOTFOUND	30	402
CNZCONVRSN403_NAMEISRESERVED	30	403
CNZCONVRSN801_BADPLISTVER	30	801
CNZCONVRSN802_EXTRANEOUSINPUT	30	802
CNZCONVRSN803_INCOMPLETEARGS	30	803
CNZCONVRSN804_NAMEINVALIDSYNTAX	30	804
CNZCONVRSN805_RSVSPACENOTZERO	30	805
CONV	0	
CONVACRO	0	
CONVAREA	12	
CONVCHRS	30	D6D5E5
CONVCLAS	1C	
CONVCNUM	1D	
CONVCONRETC_INCORRECTCONSOLEID	30	C
CONVCONRET0_CONSOLEACTIVE	30	0
CONVCONRET1C_TOOMUCHINPUT	30	1C
CONVCONRET10_NOTAVAILABLE	30	10
CONVCONRET14_IBMDIAGNOSTIC	30	14
CONVCONRET18_NOINPUTSPECIFIED	30	18
CONVCONRET20_BADACRONYM	30	20
CONVCONRET24_HOLDINGLOCKS	30	24
CONVCONRET28_INCORRECTENV	30	28
CONVCONRET4_CONSOLEINACTIVE	30	4
CONVCONRET8_CONSOLENAMENOTFOUND	30	8
CONVCONRSNC_AREAIDINVALID	30	C
CONVCONRSNC_NAMEISRESERVED	30	C
CONVCONRSN0_AREAIDVALID	30	0
CONVCONRSN0_BADNAME	30	0
CONVCONRSN10_AREAIDWRONGLENGTH	30	10
CONVCONRSN8_INVALIDSYNTAX	30	8
CONVFLD	8	

Table 484. Cross Reference for CONV (continued)

Name	Offset	Hex Tag
CONVFLGS	5	
CONVGFLG	20	
CONVGLEN	30	34
CONVID	1C	
CONVNAME	14	
CONVNPAR	20	80
CONVPFLD	5	80
CONVPID	5	40
CONVPLEN	30	30
CONVPTR	30	
CONVRID	30	2
CONVRSN	13	
CONVRSV1	6	
CONVRSV3	21	
CONVSMCS	20	40
CONVSP41	30	1
CONVSYSN	28	
CONVVRSN	4	
CONV7730	30	2

Chapter 113. CPAB Information

CPAB Heading Information

Common Name:	Cell Pool Anchor Block
Macro ID:	IHACPAB
DSECT Name:	CPAB
Owning Component:	Virtual Storage Manager (SC1CH)
Eye-Catcher ID:	CPAB Offset: 0 Length: 4
Storage Attributes:	Subpool: Any valid subpool Key: User-defined
Size:	32 bytes
Created by:	NIP initialization and IEAVBLDP (build cell pool)
Pointed to by:	User (first 32 bytes of the GETMAINed area) PFSTCPAD field of the GDA data area
Serialization:	Provided by user.
Function:	Used to define a pre-allocated pool of cells for the get and free quick cell services.

CPAB mapping

Table 485. Structure CPAB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPAB	

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Table 485. Structure CPAB (continued)

```
%CPABBSL1: ;
   START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: Cell Pool Anchor Block
01 MACRO NAME: IHACPAB
01 EXTERNAL CLASSIFICATION: NOTPI
01 END OF EXTERNAL CLASSIFICATION:
01 DSECT NAME:
     CPAB
01 PROPRIETARY STATEMENT:
01 METHOD OF ACCESS:
01 COMPONENT: Virtual Storage Manager (SC1CH)
01 EYE-CATCHER: CPAB
02 OFFSET: 0
02 LENGTH: 4
01 STORAGE ATTRIBUTES:
02 SUBPOOL: Any valid subpool
02 KEY: User-defined
01 SIZE:
      32 bytes
01 CREATED BY:
     NIP initialization and IEAVBLDP (build cell pool)
01 POINTED TO BY:
     User (first 32 bytes of the GETMAINed area)
     PFSTCPAD field of the GDA data area
01 SERIALIZATION:
     Provided by user.
01 FUNCTION:
02 Used to define a pre-allocated pool of cells for the get
    and free quick cell services.
  END OF SPECIFICATIONS
%GOTO CPABBSL2;
```

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	SIGNED	4	CPABCPID	CPID FOR THIS POOL (ADDRESS OF THE ORIGINAL CPAB IN AN EXTENSION CPAB)
4	(4)	SIGNED	4	CPABCSZE	SIZE OF EACH CELL
8	(8)	SIGNED	4	CPABDEQC	COUNT OF NUMBER OF CELLS CURRENTLY ALLOCATED FROM THIS POOL SEGMENT.
12	(C)	SIGNED	4	CPABFACP	FIRST AVAILABLE CELL POINTER
16	(10)	SIGNED	4	CPABFLGW(0)	FLAG AND COUNT WORD (USED FOR LOCKING A SEGMENT)
16	(10)	CHARACTER	1	CPABSPID	SUBPOOL NUMBER OF POOL (ZERO IN EXTENSION CPABE)
17	(11)	BITSTRING	1	CPABFLGS	FLAGS
		1...		NIPBLDCP	"X'80'" ORIGINAL POOL WAS CREATED DURING NIP AND CANNOT BE DELETED
		.1..		BLDDWORD	"X'40'" CELLS IN THIS POOL MUST BE ALIGNED ON A DOUBLE WORD BOUNDARY.
		..1.		ADELCAND	"X'20'" THIS EXTENT IS A CANDIDATE FOR AUTOMATIC DELETION
		...1		CPABEXTN	"X'10'" FLAGS AN ORIGINAL CPAB (0) OR AN EXTENSION CPAB (1)
		.... 1...		DELETELK	"X'08'" THIS SEGMENT IS IN THE PROCESS OF BEING DELETED

Table 485. Structure CPAB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		SERIAL	"X'04'" CALLER HAS GUARANTEED SERIALIZATION
18	(12)	SIGNED	2	CPABUSE#	COUNT OF CONCURRENT OPERATIONS ON THIS SEGMENT
20	(14)	SIGNED	4	CPABSTAD	START ADDRESS OF THIS POOL SEGMENT
24	(18)	SIGNED	4	CPABENAD	END ADDRESS OF THIS POOL SEGMENT
28	(1C)	SIGNED	4	CPABNXTP	PTR TO NEXT CPABE/0
32	(20)	CHARACTER	1	CPABEND(0)	CPAB END
32	(20)	X'20'	0	CPABLEN	"CPABEND-CPAB" LENGTH OF THE CPAB

Table 486. Cross Reference for CPAB

Name	Offset	Hex Tag
ADELCAND	11	20
BLDDWORD	11	40
CPAB	0	
CPABCPID	0	
CPABCSZE	4	
CPABDEQC	8	
CPABENAD	18	
CPABEND	20	
CPABEXTN	11	10
CPABFACP	C	
CPABFLGS	11	
CPABFLGW	10	
CPABLEN	20	20
CPABNXTP	1C	
CPABSPID	10	
CPABSTAD	14	
CPABUSE#	12	
DELETELK	11	8
NIPBLDCP	11	80
SERIAL	11	4

Chapter 114. CPMT Information

CPMT Heading Information

Common Name:	CHANNEL PATH MEASUREMENT TABLE
Macro ID:	IRACPMT
DSECT Name:	IRACPMT
Owning Component:	SYSTEMS RESOURCE MANAGER (SC1CX)
Eye-Catcher ID:	CPMT Offset: 0 Length: 4
Storage Attributes:	Main Storage: ESQA Subpool: 245 Residency: ABOVE 16M LINE
Size:	12 + 12 X (NUMBER OF CHANNEL PATHS)
Created by:	IEAVNP1F
Pointed to by:	THE ADDRESS OF THE CPMT IS CONTAINED IN THE -CMCTCPMT- FIELD OF THE CHANNEL MEASUREMENT CONTROL TABLE
Serialization:	SRM LOCK
Function:	THE CPMT IS USED BY THE SYSTEM RESOURCES MANAGER TO MONITOR THE ACTIVITY ON THE CHANNEL PATHS.

CPMT mapping

Table 487. Structure CPMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	CPMT	
0	(0)	CHARACTER	12	CPMTHDR	
0	(0)	CHARACTER	4	CPMTNAME	ACRONYM 'CPMT'
4	(4)	UNSIGNED	4	CPMTSAMB	STCPS OR SAD SAMPLE COUNT BASE
8	(8)	UNSIGNED	4	CPMTSAMP	STCPS OR SAD SAMPLE COUNT NORMALIZED
12	(C)	CHARACTER	12	CPMTNTRY(*)	ARRAY OF ENTRIES - ONE PER CHPID

Table 488. Structure CPMTENTY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	12	CPMTENTY	MAPPING FOR EACH ENTRY
0	(0)	UNSIGNED	4	CPMTBUSB	NUMBER OF TIMES BUSY BASE
4	(4)	UNSIGNED	4	CPMTBUSY	NUMBER OF TIMES BUSY NORMALIZED
8	(8)	SIGNED	2	CPMTUTIL	AGED PERCENT PATH BUSY (PATH UTILIZATION) - PATH OFFLINE IF LESS THAN ZERO
10	(A)	CHARACTER	2	CPMTRSV1	RESERVED

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CPMT mapping

Table 489. Cross Reference for CPMT

Name	Offset	Hex Tag
CPMT	0	
CPMTBUSB	0	
CPMTBUSY	4	
CPMTENTY	0	
CPMTHDR	0	
CPMTNAME	0	
CPMTNTRY	C	
CPMTRSV1	A	
CPMTSAMB	4	
CPMTSAMP	8	
CPMTUTIL	8	

Chapter 115. CQE Information

CQE Heading Information

Common Name:	Console Queue Element
Macro ID:	IEZVD001
DSECT Name:	CQE
Owning Component:	Console Services (SC1CK)
Eye-Catcher ID:	None
Storage Attributes:	Main Storage: 31-bit Subpool: 230 Key: 0
Size:	408 bytes
Created by:	IEAVVINT creates the cellpool IEAVMWSV obtains cells, expands pool
Pointed to by:	UCMOUTQ of the UCM Data Area
Serialization:	Local and CMS locks
Function:	Mapping of the Console Queue Element. Contains information about messages queued to go to particular consoles.

CQE mapping

Table 490. Structure CQE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	408	CQE	
0	(0)	CHARACTER	8	CQE_ENTRY	CQE ENTRY
0	(0)	BITSTRING	1	CQEFLAG	CONSOLE OUTPUT QUEUE FLAGS
		11..		CQEEOB	END OF CQE BLOCK WHEN BOTH ON
		1...		CQEEOQ	LAST ENTRY ON QUEUE
		.1..		*	NEVER ON ALONE
		..1.		*	RESERVED
		...1		*	Reserved.
		.... 1...		*	Reserved.
		.... .1..		CQEMAJOR	WQE IS MAJOR FOR MLWTO
		.... ..1.		CQEAVAIL	THIS ENTRY NO LONGER NEEDED
		1		CQEENTR	ENTRY EXISTS
1	(1)	CHARACTER	3	*	Reserved
4	(4)	ADDRESS	4	CQEWQEA	Pointer to WQE or next CQE block
8	(8)	CHARACTER	8	*(49)	Space holder for next 49 entries (188x = 392 bytes)
400	(190)	CHARACTER	8	CQE_LAST_ENTRY	Last entry which is pointer to next CQE
400	(190)	BITSTRING	1	CQEEND	FLAGS FOR LAST CQE ENTRY
401	(191)	CHARACTER	3	*	Reserved
404	(194)	ADDRESS	4	CQEENDA	ADDR OF NEXT CQE

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CQE mapping

Table 491. Constants for CQE

Len	Type	Value	Name	Description
4	DECIMAL	408	CQELENG	CQE BLOCK LENGTH
2	DECIMAL	230	CQESP	Console Private NonFetchProtect
0	BIT 11		KCQEEOB	End of CQE block indicator
4	DECIMAL	50	CNZ_KNUM_CQES_PER_BLOCK	

Table 492. Cross Reference for CQE

Name	Offset	Hex Tag
CQE	0	
CQE_ENTRY	0	
CQE_LAST_ENTRY	190	
CQEAVAIL	0	02
CQEEND	190	
CQEENDA	194	
CQEENTR	0	01
CQEEOB	0	C0
CQEEOQ	0	80
CQEFLAG	0	
CQEMAJOR	0	04
CQEWQEA	4	

Chapter 116. CRGASM Information

CRGASM Programming Interface Information

CRGASM is a programming interface.

CRGASM Heading Information

Common Name:	Registration Services ASM Declares
Macro ID:	CRGASM
DSECT Name:	CRGGRMPARMLIST CRGSEIFPARMLIST CRGRRMDPARMLIST CRGDRMPARMLIST CRGXPPARMLIST
Owning Component:	Context Services (SCCTX)
Eye-Catcher ID:	None
Storage Attributes:	Main Storage: N/A Virtual Storage: N/A Auxiliary Storage: N/A Subpool: N/A Key: N/A Data Space: N/A Residency: N/A
Size:	N/A
Created by:	N/A
Pointed to by:	N/A
Serialization:	N/A
Function:	CRGASM defines Registration Service constants, external entries, and parameter list DSECTS for programs written in the 390 ASM language.

CRGASM mapping

Table 493. Structure CRGGRMPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CRGGRMPARMLIST	
0	(0)	ADDRESS	4	CRGGRMRETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	CRGGRMRESOURCEMANAGERNAMEPTR	RM Name Address
8	(8)	ADDRESS	4	CRGGRMRESOURCEMANAGERTOKENPTR	RM Token Address
12	(C)	ADDRESS	4	CRGGRMUNREGISTEROPTIONPTR	Unregister Option Address
16	(10)	ADDRESS	4	CRGGRMRESOURCEMANAGERGLOBALDATAPTR	RM Global Data Address

Table 494. Structure CRGSEIFPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CRGSEIFPARMLIST	
0	(0)	ADDRESS	4	CRGSEIFRETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	CRGSEIFRESOURCEMANAGERTOKENPTR	

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Table 494. Structure CRGSEIFPARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					RM Token Address
8	(8)	ADDRESS	4	CRGSEIFNOTIFICATIONEXITTYPEPTR	
					Notification Exit Type Address
12	(C)	ADDRESS	4	CRGSEIFNOTIFICATIONEXITENTRYPTR	
					Notification Exit Entry Address
16	(10)	ADDRESS	4	CRGSEIFEXITMANAGERNAMEPTR	EM Name Address
20	(14)	ADDRESS	4	CRGSEIFEXITCOUNTPTR	Exit Count Address
24	(18)	ADDRESS	4	CRGSEIFEXITNUMBERARRAYPTR	Exit Number Array Address
28	(1C)	ADDRESS	4	CRGSEIFEXITENTRYARRAYPTR	Exit Entry Array Address
32	(20)	ADDRESS	4	CRGSEIFEXITTYPEARRAYPTR	Exit Type Array Address
36	(24)	ADDRESS	4	CRGSEIFVARIABLEDATA1PTR	Variable Data 1 Address
40	(28)	ADDRESS	4	CRGSEIFVARIABLEDATA2PTR	Variable Data 2 Address
44	(2C)	ADDRESS	4	CRGSEIFVARIABLEDATA3PTR	Variable Data 3 Address

Table 495. Structure CRGSEIF1PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CRGSEIF1PARMLIST	
0	(0)	ADDRESS	4	CRGSEIF1RETURNCODEPTR	Return Code Address !
4	(4)	ADDRESS	4	CRGSEIF1RESOURCEMANAGERTOKENPTR	
					RM Token Address !
8	(8)	ADDRESS	4	CRGSEIF1NOTIFICATIONEXITTYPEPTR	
					Notification Exit Type Address !
12	(C)	ADDRESS	4	CRGSEIF1NOTIFICATIONEXITENTRYPTR	
					Notification Exit Entry Address !
16	(10)	ADDRESS	4	CRGSEIF1EXITMANAGERNAMEPTR	EM Name Address !
20	(14)	ADDRESS	4	CRGSEIF1EXITCOUNTPTR	Exit Count Address !
24	(18)	ADDRESS	4	CRGSEIF1EXITNUMBERARRAYPTR	Exit Number Array Address!
28	(1C)	ADDRESS	4	CRGSEIF1EXITENTRYARRAYPTR	Exit Entry Array Address !
32	(20)	ADDRESS	4	CRGSEIF1EXITTYPEARRAYPTR	Exit Type Array Address !
36	(24)	ADDRESS	4	CRGSEIF1VARIABLEDATA1PTR	Variable Data 1 Address !
40	(28)	ADDRESS	4	CRGSEIF1VARIABLEDATA2PTR	Variable Data 2 Address !
44	(2C)	ADDRESS	4	CRGSEIF1VARIABLEDATA3PTR	Variable Data 3 Address !

Table 496. Structure CRGRRMDPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CRGRRMDPARMLIST	
0	(0)	ADDRESS	4	CRGRRMDRETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	CRGRRMDRESOURCEMANAGERNAMEPTR	
					RM Name Address
8	(8)	ADDRESS	4	CRGRRMDRESOURCEMANAGERTOKENPTR	
					RM Token Address
12	(C)	ADDRESS	4	CRGRRMDRESOURCEMANAGERGLOBALDATAPTR	
					RM Global Data Address

Table 497. Structure CRGDRMPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CRGDRMPARMLIST	
0	(0)	ADDRESS	4	CRGDRMRETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	CRGDRMRESOURCEMANAGERTOKENPTR	RM Token Address

Table 498. Structure CRG4GRMPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CRG4GRMPARMLIST	
0	(0)	ADDRESS	8	CRG4GRMRETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	CRG4GRMRESOURCEMANAGERNAMEPTR	RM Name Address
16	(10)	ADDRESS	8	CRG4GRMRESOURCEMANAGERTOKENPTR	RM Token Address
24	(18)	ADDRESS	8	CRG4GRMUNREGISTEROPTIONPTR	Unregister Option Address
32	(20)	ADDRESS	8	CRG4GRMRESOURCEMANAGERGLOBALDATAPTR	RM Global Data Address

Table 499. Structure CRG4SEIFPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CRG4SEIFPARMLIST	
0	(0)	ADDRESS	8	CRG4SEIFRETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	CRG4SEIFRESOURCEMANAGERTOKENPTR	RM Token Address
16	(10)	ADDRESS	8	CRG4SEIFNOTIFICATIONEXITTYPEPTR	Notification Exit Type Address
24	(18)	ADDRESS	8	CRG4SEIFNOTIFICATIONEXITENTRYPTR	Notification Exit Entry Address
32	(20)	ADDRESS	8	CRG4SEIFEXITMANAGERNAMEPTR	EM Name Address
40	(28)	ADDRESS	8	CRG4SEIFEXITCOUNTPTR	Exit Count Address
48	(30)	ADDRESS	8	CRG4SEIFEXITNUMBERARRAYPTR	Exit Number Array Address
56	(38)	ADDRESS	8	CRG4SEIFEXITENTRYARRAYPTR	Exit Entry Array Address
64	(40)	ADDRESS	8	CRG4SEIFEXITTYPEARRAYPTR	Exit Type Array Address
72	(48)	ADDRESS	8	CRG4SEIFVARIABLEDATA1PTR	Variable Data 1 Address
80	(50)	ADDRESS	8	CRG4SEIFVARIABLEDATA2PTR	Variable Data 2 Address
88	(58)	ADDRESS	8	CRG4SEIFVARIABLEDATA3PTR	Variable Data 3 Address

Table 500. Structure CRG4RRMDPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CRG4RRMDPARMLIST	
0	(0)	ADDRESS	8	CRG4RRMDRETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	CRG4RRMDRESOURCEMANAGERNAMEPTR	RM Name Address
16	(10)	ADDRESS	8	CRG4RRMDRESOURCEMANAGERTOKENPTR	RM Token Address
24	(18)	ADDRESS	8	CRG4RRMDRESOURCEMANAGERGLOBALDATAPTR	RM Global Data Address

CRGASM mapping

Table 501. Structure CRG4DRMPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CRG4DRMPARMLIST	
0	(0)	ADDRESS	8	CRG4DRMRETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	CRG4DRMRESOURCEMANAGERTOKENPTR	RM Token Address

Table 502. Structure CRGXPPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CRGXPPARMLIST	
0	(0)	ADDRESS	4	CRGXPRETURNCODEPTR	Exit Return Code Address
4	(4)	ADDRESS	4	CRGXPVERSIONPTR	Exit Parameter List Version Number
8	(8)	ADDRESS	4	CRGXPEXITNUMBERPTR	Exit Number Address
12	(C)	ADDRESS	4	CRGXPRESOURCEMANAGERTOKENPTR	Resource Manager Token Address
16	(10)	ADDRESS	4	CRGXPREGSERVEXITMANAGERNAMEPTR	Registration Services Exit Manager Name Address
20	(14)	ADDRESS	4	CRGXPRESOURCEMANAGERGLOBALDATAPTR	Resource Manager Global Data Address
24	(18)	ADDRESS	4	CRGXPEXITMANAGERNAMEPTR	Exit Manager Name Address
28	(1C)	ADDRESS	4	CRGXPVALUE1PTR	Value 1 Address
32	(20)	ADDRESS	4	CRGXPVALUE2PTR	Value 2 Address
36	(24)	ADDRESS	4	CRGXPVALUE3PTR	Value 3 Address
40	(28)	ADDRESS	4	CRGXPVALUE4PTR	Value 4 Address
44	(2C)	ADDRESS	4	CRGXPVALUE5PTR	Value 5 Address

Table 503. Cross Reference for CRGASM

Name	Offset	Hex Tag
CRGDRMPARMLIST	0	
CRGDRMRESOURCEMANAGERTOKENPTR	4	
CRGDRMRETURNCODEPTR	0	
CRGGRMPARMLIST	0	
CRGGRMRESOURCEMANAGERGLOBALDATAPTR	10	
CRGGRMRESOURCEMANAGERNAMEPTR	4	
CRGGRMRESOURCEMANAGERTOKENPTR	8	
CRGGRMRETURNCODEPTR	0	
CRGGRMUNREGISTEROPTIONPTR	C	
CRGRRMDPARMLIST	0	
CRGRRMDRESOURCEMANAGERGLOBALDATAPTR	C	
CRGRRMDRESOURCEMANAGERNAMEPTR	4	
CRGRRMDRESOURCEMANAGERTOKENPTR	8	
CRGRRMDRETURNCODEPTR	0	
CRGSEIFEXITCOUNTPTR	14	
CRGSEIFEXITENTRYARRAYPTR	1C	
CRGSEIFEXITMANAGERNAMEPTR	10	
CRGSEIFEXITNUMBERARRAYPTR	18	
CRGSEIFEXITTYPEARRAYPTR	20	

Table 503. Cross Reference for CRGASM (continued)

Name	Offset	Hex Tag
CRGSEIFNOTIFICATIONEXITENTRYPTR	C	
CRGSEIFNOTIFICATIONEXITTYPEPTR	8	
CRGSEIFPARMLIST	0	
CRGSEIFRESOURCEMANAGERTOKENPTR	4	
CRGSEIFRETURNCODEPTR	0	
CRGSEIFVARIABLEDATA1PTR	24	
CRGSEIFVARIABLEDATA2PTR	28	
CRGSEIFVARIABLEDATA3PTR	2C	
CRGSEIF1EXITCOUNTPTR	14	
CRGSEIF1EXITENTRYARRAYPTR	1C	
CRGSEIF1EXITMANAGERNAMEPTR	10	
CRGSEIF1EXITNUMBERARRAYPTR	18	
CRGSEIF1EXITTYPEARRAYPTR	20	
CRGSEIF1NOTIFICATIONEXITENTRYPTR	C	
CRGSEIF1NOTIFICATIONEXITTYPEPTR	8	
CRGSEIF1PARMLIST	0	
CRGSEIF1RESOURCEMANAGERTOKENPTR	4	
CRGSEIF1RETURNCODEPTR	0	
CRGSEIF1VARIABLEDATA1PTR	24	
CRGSEIF1VARIABLEDATA2PTR	28	
CRGSEIF1VARIABLEDATA3PTR	2C	
CRGXPEXITMANAGERNAMEPTR	18	
CRGXPEXITNUMBERPTR	8	
CRGXPPARMLIST	0	
CRGXPREGSERVEXITMANAGERNAMEPTR	10	
CRGXPRESOURCEMANAGERGLOBALDATAPTR	14	
CRGXPRESOURCEMANAGERTOKENPTR	C	
CRGXPRETURNCODEPTR	0	
CRGXPVALUE1PTR	1C	
CRGXPVALUE2PTR	20	
CRGXPVALUE3PTR	24	
CRGXPVALUE4PTR	28	
CRGXPVALUE5PTR	2C	
CRGXPVERSIONPTR	4	
CRG4DRMPARMLIST	0	
CRG4DRMRESOURCEMANAGERTOKENPTR	8	
CRG4DRMRETURNCODEPTR	0	
CRG4GRMPARMLIST	0	
CRG4GRMRESOURCEMANAGERGLOBALDATAPTR	20	
CRG4GRMRESOURCEMANAGERNAMEPTR	8	
CRG4GRMRESOURCEMANAGERTOKENPTR	10	
CRG4GRMRETURNCODEPTR	0	
CRG4GRMUNREGISTEROPTIONPTR	18	
CRG4RRMDPARMLIST	0	
CRG4RRMDRESOURCEMANAGERGLOBALDATAPTR	18	
CRG4RRMDRESOURCEMANAGERNAMEPTR	8	
CRG4RRMDRESOURCEMANAGERTOKENPTR	10	
CRG4RRMDRETURNCODEPTR	0	
CRG4SEIFEXITCOUNTPTR	28	

Table 503. Cross Reference for CRGASM (continued)

Name	Offset	Hex Tag
CRG4SEIFEXITENTRYARRAYPTR	38	
CRG4SEIFEXITMANAGERNAMEPTR	20	
CRG4SEIFEXITNUMBERARRAYPTR	30	
CRG4SEIFEXITTYPEARRAYPTR	40	
CRG4SEIFNOTIFICATIONEXITENTRYPTR	18	
CRG4SEIFNOTIFICATIONEXITTYPEPTR	10	
CRG4SEIFPARMLIST	0	
CRG4SEIFRESOURCEMANAGERTOKENPTR	8	
CRG4SEIFRETURNCODEPTR	0	
CRG4SEIFVARIABLEDATA1PTR	48	
CRG4SEIFVARIABLEDATA2PTR	50	
CRG4SEIFVARIABLEDATA3PTR	58	

Chapter 117. CRW Information

CRW Heading Information

Common Name:	CRW - Channel Report Word
Macro ID:	IHACRW
DSECT Name:	CRW
Owning Component:	I/O Supervisor (SC1C3)
Eye-Catcher ID:	none
Storage Attributes:	Subpool: 245 Key: 0
Size:	4 bytes
Created by:	IOSRACRW when obtaining hardware pending CRWs and modules that create software CRWs.
Pointed to by:	The CRW is contained in field CRWQCRW of the CRWQ area.
Serialization:	None
Function:	The CRW maps the hardware defined channel error-related information used by I/O recovery.

CRW mapping

Table 504. Structure CRW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	4	CRW	
		1...		*	Reserved
		.1..		CRWS	S flag
		..1.		CRWR	CRW overflow condition
		...1		CRWC	Additional CRW's chained
		 1111		CRWRSC	Reporting Source Code
1	(1)	1...		CRWA	Ancillary-Report bit
		.1..		CRWI	Image
		..11 1111		CRWERC	Error Recovery Code
2	(2)	UNSIGNED	2	CRWRSID	Reporting Source Identifier
2	(2)	UNSIGNED	2	CRWRSSCH	Subchannel number
2	(2)	UNSIGNED	1	CRWRSCSS	Channel subsystem image id
3	(3)	UNSIGNED	1	CRWRSCHP	Channel path ID
		11..		*	Reserved
		..11		CRWRSSID	Subchannel set id
		.... 1...		*	Reserved
		.... .111		CRWRSISC	Interrupt Subclass

Table 505. Constants for CRW

Len	Type	Value	Name	Description
Constants associated with CRWRSC - Reporting Source Code				
0	BIT	0010	CRWMF	Monitoring facility
0	BIT	0011	CRWSCH	Subchannel Recovery

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Table 505. Constants for CRW (continued)

Len	Type	Value	Name	Description
0	BIT	0100	CRWCHPID	Channel Path ID
0	BIT	1001	CRWCAF	Configuration-alert facility
0	BIT	1011	CRWCHSUB	Channel Subsystem
Constants associated with CRWERC - Error Recovery Code				
0	BIT	000000	CRWINFOP	Event-Information pending
0	BIT	000001	CRWAVAIL	Available state
0	BIT	000010	CRWINIT	Initialized state
0	BIT	000011	CRWTEMP	Temporary error
0	BIT	000100	CRWIINIT	Installed parameters initialized
0	BIT	000101	CRWTERM	Terminal
0	BIT	000110	CRWPERMN	Permanent error with facility not initialized
0	BIT	000111	CRWPERMI	Permanent error with facility initialized
0	BIT	001000	CRWIPM	Installed parameters modified
0	BIT	001001	CRWISOL	The identified facility is in the isolated state
0	BIT	001010	CRWIPR	Installed parameters restored
Constants associated with CRWERC - Software Generated				
0	BIT	111111	CRWFCHP	Force CHP- offline
0	BIT	111110	CRWHREC	HOT CHP- Recover CHP
0	BIT	111101	CRWHOFF	HOT CHP- Force CHP
0	BIT	111100	CRWRSTE	Reset Notification
0	BIT	111011	CRWLERC	Link error recovery

Table 506. Cross Reference for CRW

Name	Offset	Hex Tag
CRW	0	
CRWA	1	80
CRWC	0	10
CRWERC	1	3F
CRWI	1	40
CRWR	0	20
CRWRSC	0	0F
CRWRSCHP	3	
CRWRSCSS	2	
CRWRSID	2	
CRWRSISC	3	07
CRWRSSCH	2	
CRWRSSID	3	30
CRWS	0	40

Chapter 118. CRWQ Information

CRWQ Heading Information

Common Name:	Channel Recovery Word Queuing Element
Macro ID:	IOSDCRWQ
DSECT Name:	CRWQ
Owning Component:	IOS (SC1C3)
Eye-Catcher ID:	CRWQ Offset: 0 Length: 4
Storage Attributes:	Main Storage: YES Virtual Storage: n/a Auxiliary Storage: n/a Subpool: 245 Key: 0 Residency: Above 16MB line
Size:	420 bytes.
Created by:	IOSRACRW when obtaining the hardware pending CRWs. By IOS modules when they create software CRWs.
Pointed to by:	CHRCHPCR field of the CHRB data area for channel path CRWs.
Serialization:	For Subchannel Recovery, the UCB lock. For channel path, the channel path IOS SYNCH lock.
Function:	The CRWQ contains all the data and pointers needed by IOS modules to perform Subchannel and Channel Path recovery.

CRWQ mapping

Table 507. Structure CRWQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	436	CRWQ	
0	(0)	CHARACTER	48	CRWQFLD1	
0	(0)	CHARACTER	4	CRWQID	Acronym ('CRWQ')
4	(4)	ADDRESS	4	CRWQNEXT	Pointer to next CRWQ
8	(8)	CHARACTER	4	CRWQCRW	CRW
12	(C)	SIGNED	4	CRWQSQNO	Sequence number of this CRW
16	(10)	CHARACTER	8	CRWQASCR(3)	Associated CRW data
16	(10)	SIGNED	4	CRWQASNO	Associated sequence number
20	(14)	CHARACTER	4	CRWQDATA	Additional data - module usage
40	(28)	BITSTRING	1	CRWQFLG1	Flag byte
		1...		CRWQSIML	If ON, simulated CRW
		.1..		CRWQSOFT	If ON, the CRW in CRWQCRW is a software generated CRW. The ERC (CRWERC) field is defined by the constants in this mapping macro.
		..1.		CRWQHUNG	If ON, the CRWQDATA(1) field contains a related CRW.

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Table 507. Structure CRWQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		CRWQSCBV	If ON, the CRWQSCIB field contains valid SCHIB data.
		.... 1...		CRWQECBA	If ON, the CRWQFECB field contains an ECB address.
		.... .1..		CRWQSCHW	If ON, a subchannel recovery process, described by this CRWQ, is waiting for the completion of channel path recovery.
		.... ..1.		CRWQUCBV	If ON, the CRWQUCBA field contains the address of the UCB corresponding to the subchannel identified by the CRW in CRWQDATA.
		1		CRWQCMPL	If ON, this CRWQ has been processed.
41	(29)	UNSIGNED	1	CRWQSP	Subpool of CRWQE
42	(2A)	SIGNED	2	CRWQLENG	Length of CRWQE
44	(2C)	BITSTRING	1	CRWQFLG2	Flag byte
		1...		CRWQNCON	State of UCBNOCON
		.1..		CRWQMSG	Message must be issued for software CRW
		..1.		CRWQTHRD	If the CRWQ element represents a software generated CRW, this bit indicates that the CRW should be treated like a hardware generated CRW.
		...1		CRWQASC2	If ON, the CRWQDATA(2) field contains a related CRW.
		.... 1...		CRWQASC3	If ON, the CRWQDATA(3) field contains a related CRW.
		.... .111		*	Reserved
45	(2D)	CHARACTER	1	CRWQRSV1	Reserved
46	(2E)	ADDRESS	2	CRWQCP	Processor address CRW retreived on
48	(30)	CHARACTER	256	CRWQWORK	256 byte work area
304	(130)	CHARACTER	44	CRWQSRB	SRB
348	(15C)	CHARACTER	52	CRWQFLD2	Recovery dependent data field
348	(15C)	CHARACTER	52	CRWQSCIB	SCHIB data for subchannel recovery
348	(15C)	CHARACTER	28	CRWQCHPA	CHPA data for channel path recovery
376	(178)	ADDRESS	4	CRWQUCBA	UCB common segment address - matches subchannel in CRW in CRWQDATA
400	(190)	CHARACTER	4	CRWQFECB	ECB address
404	(194)	ADDRESS	4	CRWQASCB	ASCB for ECB (zero if masters address space is to be posted
408	(198)	CHARACTER	12	CRWQLEIB	Link error information data
420	(1A4)	CHARACTER	8	CRWQPIN	Pin token for UCB
428	(1AC)	CHARACTER	8	CRWQSTKN	STOKEN for software CRWs that require cross memeory post

Table 508. Cross Reference for CRWQ

Name	Offset	Hex Tag
CRWQ	0	
CRWQASCB	194	
CRWQASCR	10	
CRWQASC2	2C	10
CRWQASC3	2C	08
CRWQASNO	10	
CRWQCHPA	15C	
CRWQCMPL	28	01
CRWQCP	2E	
CRWQCRW	8	
CRWQDATA	14	
CRWQECBA	28	08
CRWQFECB	190	
CRWQFLD1	0	
CRWQFLD2	15C	
CRWQFLG1	28	
CRWQFLG2	2C	
CRWQHUNG	28	20
CRWQID	0	
CRWQLEIB	198	
CRWQLENG	2A	
CRWQMSG	2C	40
CRWQNCON	2C	80
CRWQNEXT	4	
CRWQPIN	1A4	
CRWQRSV1	2D	
CRWQSCBV	28	10
CRWQSCHW	28	04
CRWQSCIB	15C	
CRWQSIML	28	80
CRWQSOFT	28	40
CRWQSP	29	
CRWQSQNO	C	
CRWQSRB	130	
CRWQSTKN	1AC	
CRWQTHRD	2C	20
CRWQUCBA	178	
CRWQUCBV	28	02
CRWQWORK	30	

Chapter 119. CSCB Information

CSCB Heading Information

Common Name:	COMMAND SCHEDULING CONTROL BLOCK
Macro ID:	IEECHAIN
DSECT Name:	CHAIN
Owning Component:	Master Scheduler (SC1B8)
Eye-Catcher ID:	CSCB for the CSCB CSCX for the CSCB extension Offset: CSCB: 216 CSCX: 0 Length: CSCB: 4 CSCX: 4
Storage Attributes:	Subpool: 241 for the CSCB, 245 for the CSCX Key: 0 Residency: The CSCB is above the 16M line by default, but may be specified as below the 16M line during system initialization. The CSCX is below the 16M line.
Size:	256 bytes for the CSCB 36 bytes for the CSCX
Created by:	Callers of the GETCSCB service.
Pointed to by:	ASCBCSCB FIELD OF THE ASCB DATA AREA BACHN FIELD OF THE BASEA DATA AREA CHPTR FIELD OF THE CSCB DATA AREA CHPREVP FIELD OF THE CSCB DATA AREA CHCSCBP FIELD OF THE CSCX DATA AREA JSCBCSCB FIELD OF THE JSCB DATA AREA LCTQDRTY FIELD OF THE LCT DATA AREA
Serialization:	ENQ on major SYSIEFSD minor Q10
Function:	Contains run time job description data passed to command execution routines from command scheduling routines.

CSCB mapping

Table 509. Structure CHAIN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	256	CHAIN	
0	(0)	ADDRESS	4	CHPTR	CHAIN PTR TO NEXT CSCB
4	(4)	CHARACTER	4	CHFLG	FOUR BYTES
4	(4)	CHARACTER	1	CHVCD	COMMAND VERB CODE - FOR DIRECT COMMAND INVOCATION SEE CHDIRINV
5	(5)	ADDRESS	1	CHSZE	SIZE OF THIS CSCB IN DOUBLE WORDS
6	(6)	CHARACTER	1	CHSTS	STATUS FLAGS
		1...		CHAP	ASSIGNMENT PENDING
		.1..		CHINFMT	CSCB IN PRE-INTERPRETATION (INPUT) FORMAT
		..1.		CHSOUT	CANCEL ALL SYSOUT

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Table 509. Structure CHAIN (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		CHQSPC	INSUFFICIENT Q SPACE FOR 422 ABEND
		.... 1...		CHAD	ADD THIS CSCB TO CHAIN
		.... .1..		CHDL	DELETE THIS CSCB FROM CHAIN
		.... ..1.		CHFC	FREE THIS CSCB'S CORE
		1		CHABTERM	EXECUTE BRANCH ENTRY TO ABTERM
7	(7)	CHARACTER	1	CHACT	FLAGS INDICATING ACTIVITY INVOLVED
		1...		CHSWAP	SWAPPABLE JOB
		.1..		CHTERM	TERMINAL JOB
		..1.		CHDISC	CANCEL IMPLIES DISCONNECT
		...1		CHDSI	ON MEANS NO DATA SET INTEGRITY (OS/VS1) MDC045
		.... 1...		CHCL	CANCELABLE JOB STEP
		.... .1..		CHCLD	CANCEL COMMUNICATION SWITCH
		.... ..1.		CHAIFX	CANCELABLE (OS/VS1)
		.... ..1.		CHPOSTSS	POST EARLY ADDRESS SPACE (MDC313)
		1		CHIFY	SYSTEM ASSIGNED PROCEDURE (OS/VS1)
		1		CHAFORCE	CANCEL ISSUED FOR THIS CSCB (FORCE COMMAND CAN BE ACCEPTED) (OS/VS2) (MDC301)
8	(8)	CHARACTER	8	CHKEY	1. ID OF A STARTED TASK (THIS ID IS THE TASK'S STEPNAME) 2. JOBNAME OF AN EXECUTED JOB. 3. Name of the ATX
8	(8)	ADDRESS	4	CHPARM	POINTER TO PARAMETER LIST USED FOR COMMUNICATION BETWEEN SVC 34 COMMANDS AND MASTER SCHEDULER TASK (OS/VS1) MDC040
		1...		CHPCOI	SUBSYSTEM COMMAND INDICATOR (MDC300)
16	(10)	CHARACTER	8	CHCLS	1.PROCNAME OF A STARTED TASK (THE PROCNAME IS THE TASK'S JOBNAME.) 2. JOBNAME OF AN EXECUTED JOB (SAME AS CHKEY)
24	(18)	CHARACTER	3	CHUNIT	UNITNAME (set for started tasks only) This field is not valid for 4-digit device numbers. Use CHUNIT4 instead
27	(1B)	ADDRESS	1	CHCIBCTR	MAXIMAL NUMBER OF QUEUED CIB'S
28	(1C)	CHARACTER	1	CHPKE	PROTECT KEY (0S/VS1) ICB345
28	(1C)	CHARACTER	1	CHTRKID	CSCB TYPE IDENTIFIER
29	(1D)	CHARACTER	1	CHRSV3	Reserved - was CHUCMP (The 1-byte console id that issued the command) Use CHCNSIDI instead.
30	(1E)	SIGNED	2	CHTJID	TERMINAL ID (OS/VS1)
30	(1E)	SIGNED	2	CHASID	ADDRESS SPACE ID (ASID) (OS/VS2) MDC018
32	(20)	CHARACTER	8	CHPROCSN	PROCEDURE STEP NAME (OS/VS2) (MDC049) YM6960

Table 509. Structure CHAIN (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	SIGNED	2	CHQID	QID OF REMOTE USER (OS/VS1) ICB384
34	(22)	UNSIGNED	1	CHRES	RESERVED (WAS CHVERSN)
35	(23)	BITSTRING	1	CHACT1	COMMAND DEPENDENT FLAG BYTE (SEE END OF LISTING)
36	(24)	CHARACTER	4	CHRTOKIN	31 BIT RIGHT JUSTIFIED TOKEN (MDC313)
40	(28)	CHARACTER	144	CHASM	
		BEGINNING OF OVERLAY SEGMENT BEGINNING OF CONTROL FORMAT MAPPING AFTER INTERPRETATION OF COMMAND OPERANDS			
40	(28)	ADDRESS	4	CHRES1	RESERVED (WAS POINTER TO STOP MODIFY ECB)
44	(2C)	ADDRESS	4	CHRES2	RESERVED (WAS CIB PTR)
48	(30)	ADDRESS	4	CHRES0	RESERVED (WAS CHRTOKEN)
52	(34)	ADDRESS	4	CHRGNAD	STARTING ADDRESS OF REGION IF V=R (OS/VS2) MDC002
56	(38)	SIGNED	4	CHRES3	RESERVED (WAS STOP/MODIFY ECB)
60	(3C)	SIGNED	4	CHCECB	CANCEL ECB
64	(40)	CHARACTER	8	CHSTEP	STEPNAME (OS/VS2) (MDC050) YM6960
64	(40)	CHARACTER	1	CHSWT	COMMUNICATIONS SWITCHES (OS/VS1)
		1...		CHARSV20	RESERVED
		.1..		CHJCT	READER RETURN WITH IN-CORE JCT
		..1.		CHPSD	WRITER PAUSE DATASET
		...1		CHPSF	WRITER PAUSE FORMS
		.... 1...		CHAC	ID SPECIFIED ON S COMMAND
		.... .1..		CHARSV21	RESERVED
		.... ..1.		CHARSV22	RESERVED
		1		CHARSV23	RESERVED
65	(41)	ADDRESS	3	CHTCB	TCB PTR (OS/VS1)
68	(44)	ADDRESS	4	CHSPB	TCB PTR FOR ABTERM (OS/VS1)
72	(48)	SIGNED	4	CHRGNSZ	JOB REGION SIZE IF V=R (OS/VS2) (MDC314)
76	(4C)	SIGNED	4	CHARSV40	RESERVED AFTER IEFSD161 (MDC314)
76	(4C)	ADDRESS	4	CHJCL	JCLS PTR -- IN-CORE JCT PTR -- DA JCT TTR (MDC314)
80	(50)	CHARACTER	104	*	PRESERVE DECLARE STRUCTURE
80	(50)	CHARACTER	4	CHRES4	RESERVED (WAS CHCSIDSH)
84	(54)	BITSTRING	4	CHRES8	RESERVED (WAS CHCMFLSH)
88	(58)	CHARACTER	28	*	
88	(58)	CHARACTER	28	*	RESERVED
116	(74)	SIGNED	4	CHSQA(9)	SYSOUT Q MANAGER PARAMETER AREA NOTE--THIS QMPA EXISTS IN OS/VS2 CSCB'S ONLY BEFORE INITIATOR JOB SELECT TIME.
152	(98)	SIGNED	4	*	TENTH WORD OF CHSQA (OS/VS1) RESERVED (OS/VS2) MDC022,MDC023
156	(9C)	SIGNED	4	*	ELEVENTH WORD OF CHSQA (OS/VS1) RESERVED (OS/VS2) MDC022,MDC024
160	(A0)	SIGNED	4	CHUSCVS	TIOT LENGTH (OS/VS1) MDC025
164	(A4)	ADDRESS	4	CHJSCBVS	JSCB POINTER (OS/VS1) MDC026
168	(A8)	ADDRESS	4	CHSAVWD1	START CMD. TEMP. S/A 1 (MDC311)

Table 509. Structure CHAIN (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
172	(AC)	SIGNED	4	CHSAVWD2	RESERVED (MDC314)
176	(B0)	BITSTRING	1	CHJBFLGS	FLAGS FOR STARTED JOBS
		1...		CHJBSTRT	JOBNAME= WAS SPECIFIED ON START COMMAND
		.1..		CHISJOB	MEMBER BEING STARTED WAS A JOB
		..11 1111		CHJBRSV1	RESERVED
177	(B1)	CHARACTER	3	*	RESERVED
180	(B4)	BITSTRING	4	*	SAME AS FIELD CHCMFLGS
184	(B8)	CHARACTER	40	CHRESG	USED TO RETURN PROPER LENGTH
224	(E0)	CHARACTER	8	CHMEMNAM	MEMBER NAME STARTED WITH JOBNAME=
232	(E8)	CHARACTER	4	CHRESF	USED TO RETURN THE PROPER LENGTH FOR THE LENGTH FUNCTION
236	(EC)	CHARACTER	4	*	Do not use - maps chunit
240	(F0)	ADDRESS	4	*	Do not use-maps chsttxta
244	(F4)	CHARACTER	12	CHRESH	Reserved

Table 510. Structure CHAINS01

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	STRUCTURE	216	CHAINS01	
		BEGINNING OF INPUT FORMAT MAPPING BEFORE INTERPRETATION OF COMMAND OPERANDS			
40	(28)	CHARACTER	124	CHBUF	COMMAND IMAGE (OPERAND FIELD)
40	(28)	ADDRESS	4	CHLOGOPS	Pointer to MCS LOGON or REPLY command operands. This pointer is valid when bit CH_CHLOGOPS_Valid is on
164	(A4)	SIGNED	4	CHRIMWT	ECB FOR NIP RIM TO WAIT ON (MDC313)
164	(A4)	CHARACTER	1	CHTYPE	FLAGS (MDC313)
		1...		CHDSTAT	STATUS DISPLAY (SVC 104) CMD (MDC313)
		.1..		CHARSV25	RESERVED (MDC313)
		..1.		CHARSV26	RESERVED (MDC313)
		...1		CHARSV27	RESERVED (MDC313)
		.... 1...		CHARSV28	RESERVED (MDC313)
		.... .1..		CHARSV29	RESERVED (MDC313)
		.... ..1.		CHHIAR	ON MEANS H1 SPECIFIED ON COMMAND (MDC313)
		1		CHDEF	ON MEANS DEFAULT TO H0 (MDC313)
165	(A5)	CHARACTER	2	CHRSV4	Reserved - contained CHCNID (display/receiving console id) Use CHCNSIDT instead
167	(A7)	CHARACTER	1	CHARID	DISPLAY SCREEN-AREA ID (MDC313)
168	(A8)	ADDRESS	4	CHPEND	CHAIN PTR FOR PENDING START COMMANDS (OS/VS1)
168	(A8)	SIGNED	4	CHASWT	ECB FOR INITIALIZATION TO WAIT ON

Table 510. Structure CHAINS01 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
172	(AC)	ADDRESS	2	CHINC	UNIQUE CTR FOR INTERPRETER OR FOR OS/VS2, COMMAND AUTHORITY FOR VARY COMMAND ISSUED FROM THE INPUT STREAM MDC047
174	(AE)	CHARACTER	1	CHCSYSO	EXPRESS CANCEL SYSOUT(OS/VS1)
		1...		CHALL	ALL SPECIFIED
		.1..		CHINN	IN SPECIFIED
		..1.		CHOUT	OUT SPECIFIED
		...1		CHHOLD	HOLD Q SPECIFIED
		.... 1...		CHQUE	SPECIFIC QUEUE
		.... .1..		CHDUMP	DUMP SPECIFIED
		.... ..1.		CHJB	END SCAN SWITCH
		1		CHUSERID	INDICATES 'USER=' SPECIFIED ON CANCEL COMMAND (OS/VS1) ICB396
175	(AF)	CHARACTER	1	CHSPA	OS/VS1 SYSTEM TASK CONTROL SWITCHES
176	(B0)	CHARACTER	4	CHRES5	RESERVED (WAS CHCSCBID)
		THE FOLLOWING FIELDS ARE COPIED DIRECTLY FROM THE SVC 34 XSA. THE FIELD NAMES ARE IDENTICAL EXCEPT FOR THE FIRST TWO CHARACTERS WHICH ARE XA IN THE XSA (MAPPED BY MACRO IEEXSA).			
180	(B4)	BITSTRING	4	CHCMFLGS	COPY OF SVC34 COMMAND FLAGS
180	(B4)	BITSTRING	2	CHCMFLGA	SEE XSA DESCRIPTION
180	(B4)	BITSTRING	1	CHCMFLG1	SEE XSA DESCRIPTION
		1...		CHCMF11	SEE XSA DESCRIPTION
		.1..		CHCMF12	SEE XSA DESCRIPTION
		..1.		CHCMF13	SEE XSA DESCRIPTION
		...1		CHCMF14	SEE XSA DESCRIPTION
		.... 1...		CHCMF15	SEE XSA DESCRIPTION
		.... .1..		CHCMF16	SEE XSA DESCRIPTION
		.... ..1.		CHCMF17	SEE XSA DESCRIPTION
		1		CHCMF18	SEE XSA DESCRIPTION
181	(B5)	BITSTRING	1	CHCMFLG2	SEE XSA DESCRIPTION
		1...		CHCMF21	SEE XSA DESCRIPTION
		.1..		CHCMF22	SEE XSA DESCRIPTION
		..1.		CHCMF23	SEE XSA DESCRIPTION
		...1		CHCMF24	SEE XSA DESCRIPTION
		.... 1...		CHCMF25	SEE XSA DESCRIPTION
		.... .1..		CHCMF26	SEE XSA DESCRIPTION
		.... ..1.		CHCMF27	SEE XSA DESCRIPTION
		1		CHCMF28	SEE XSA DESCRIPTION
182	(B6)	BITSTRING	2	CHCMFLGB	SEE XSA DESCRIPTION
182	(B6)	BITSTRING	1	CHCMFLG3	SEE XSA DESCRIPTION
183	(B7)	BITSTRING	1	CHCMFLG4	SEE XSA DESCRIPTION
		1...		*	SEE XSA DESCRIPTION
		.1..		CHTJY	See XSA Description
		..1.		*	See XSA Description
		...1		CHCMFL44	SEE XSA DESCRIPTION
		...1		CHRTDM	SEE XSA DESCRIPTION
		.... 11..		*	Reserved
		.... ..1.		CHNOBY	See XSA description
		1		*	Reserved

Table 510. Structure CHAINS01 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		THE CHAUTH FIELD MUST BE EXACTLY MAPPED BY THE XAAUTH FIELD IN THE XSA (IEEXSA).			
184	(B8)	CHARACTER	2	CHAUTH	COMMAND CODE AUTHORITY
184	(B8)	BITSTRING	1	CHAUTHA	1ST BYTE OF COMMAND CODE
		1...		CHAUTH1	COMMAND GROUP 1 (SYS)
		.1..		CHAUTH2	COMMAND GROUP 2 (I/O)
		..1.		CHAUTH3	COMMAND GROUP 3 (CONS)
		...1 1111		*	RESERVED
185	(B9)	BITSTRING	1	CHAUTHB	2ND BYTE OF COMMAND CODE
		THE CHDISP FIELD MUST BE EXACTLY MAPPED BY THE XADISP FIELD IN THE XSA (IEEXSA).			
186	(BA)	CHARACTER	1	CHDISP	AUTHORITY OF COMMAND
		1...		CHDISPA	COMMAND HAS MASTER AUTHORITY IBM RECOMMENDS THE USE OF CHDISPM INSTEAD OF CHDISPA THIS BIT NEVER CAN GO AWAY!
		.1..		CHDISPM	COMMAND HAS MASTER AUTHORITY
		..1.		CHDISPC	COMMAND ISSUED FROM MCS CONSOLE
		...1		CHDISPR	COMMAND ISSUED BEFORE RACF ACTIVE
		.... 1...		CHDISPE	COMMAND ISSUED BY ARM
		.... .111		*	RESERVED
187	(BB)	CHARACTER	1	CHFLGS	FLAGS
		1...		CHPMSI	COMMAND WAS ISSUED BEFORE MSI COMPLETE
		.1..		CHBIGRP	BYPASS INITIATOR GET REGION PROCESSING
		..1.		CHNOALC	Bypass setup of Allocation Environment
		...1		CHLEQUAL	L= was specified on command
		.... 1...		CH_CHLOGOPS_VALID	CHLOGOPS points to an operand buffer. CHBUF does NOT contain the operands
		.... .1..		CHMAXRGN	Do not impose any limit on the region size
		11		*	RESERVED
188	(BC)	ADDRESS	4	CHUTOK	POINTER TO COMMAND ISSUER UTOKEN
192	(C0)	UNSIGNED	4	CHCNSIDT	TARGET CONSOLE ID
196	(C4)	UNSIGNED	4	CHCNSIDI	ISSUING CONSOLE ID
200	(C8)	CHARACTER	8	CHCART	COMMAND AND RESPONSE TOKEN (CART)
208	(D0)	UNSIGNED	1	CHLOFF	Offset in CHBUF to where L= was specified. Only valid if CHLEQUAL is set to ON
209	(D1)	UNSIGNED	1	CHVERSN	CSCB VERSION ID
210	(D2)	CHARACTER	2	CHRES7	RESERVED
212	(D4)	ADDRESS	4	CHPREVP	PREVIOUS CSCB POINTER
216	(D8)	CHARACTER	4	CHCSCBID	CSCB ACRONYM
220	(DC)	ADDRESS	4	CHCSCXP	POINTER TO THE CSCX
224	(E0)	CHARACTER	4	CHDITOKN	CALLERS TOKEN FOR DIRECT COMMAND INVOCATION
228	(E4)	UNSIGNED	4	CHOCID	ORIGINATING CONSOLE ID

Table 510. Structure CHAINS01 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
232	(E8)	CHARACTER	4	CHRSV2	RESERVED
236	(EC)	CHARACTER	4	CHUNIT4	UNITNAME (SET FOR STARTED TASKS ONLY)
240	(F0)	ADDRESS	4	CHSTTXTA	POINTER TO SCTS(IEEZB884)
244	(F4)	CHARACTER	8	CHOSYSN	Original issuing system name
252	(FC)	CHARACTER	4	CHRESV	Reserved
		END OF INPUT FORMAT MAPPING BEFORE INTERPRETATION OF COMMAND OPERANDS			
256	(100)	CHARACTER	0	CHLAST	

Table 511. Structure CHVARY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
35	(23)	STRUCTURE	1	CHVARY	VARY DEVICE AND CONSOLE FLAG BYTE
		1...		CHVDIENQ	PERFORM ENQS AND DEQ ON DIRECT INVOCATION OF VARY (VALID ONLY IF CHVCD=0)
		.1..		CHVSUNPM	SUPPRESS 'NO PATHS' MESSAGE
		..1.		CHSMSVL	VARY FOR SMS LIBRARY
		...1		CHVRSV2	RESERVED
		.... 1...		CHVRSV3	RESERVED
		.... .1..		CHVRSV4	RESERVED
		.... ..1.		CHVRSV5	RESERVED
		1		CHVRSV6	RESERVED

Table 512. Structure CSCX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	36	CSCX	CSCX DSECT
0	(0)	CHARACTER	4	CHCSCXID	CSCX ACRONYM
4	(4)	UNSIGNED	1	CHXVERSN	VERSION LEVEL
5	(5)	CHARACTER	3	CHXRES	RESERVED
8	(8)	ADDRESS	4	CHECBP	POINTER TO STOP/MODIFY ECB
12	(C)	ADDRESS	4	CHCIBP	POINTER TO CIB
16	(10)	CHARACTER	4	CHRTOKEN	31 BIT RIGHT JUSTIFIED TOKEN
		1...		CHRTOKHR	BIT = 1 INDICATES A TOKEN
		THE ABOVE ECB AND CIB POINTERS AND TOKEN FORM @G380P2N THE COMMUNICATIONS PARAMETER LIST MAPPED BY IEZCOM			
20	(14)	SIGNED	4	CHECB	STOP/MODIFY ECB
24	(18)	CHARACTER	8	CHNAME	JOBNAME or ATXname of an TP initiated by APPC
32	(20)	ADDRESS	4	CHCSCBP	ADDRESS OF CSCB

Table 513. Constants for CSCB

Len	Type	Value	Name	Description
		MACRO RELATED DECLARATIONS		

Table 513. Constants for CSCB (continued)

Len	Type	Value	Name	Description
4	CHARACTER	CSCB	CHCSIDDC	CSCB ACRONYM CONSTANT
1	DECIMAL	1	CHSP13	VERSION LEVEL OS/VS2 JBB1326
1	DECIMAL	2	CHSP41	VERSION LEVEL HBB4410
1	DECIMAL	3	CHSP42	VERSION LEVEL HBB4420
1	DECIMAL	4	CHSP44	VERSION LEVEL HBB5510
1	DECIMAL	5	CHROALL	VERSION LEVEL W/OW15
1	DECIMAL	5	CHVERID	VERSION LEVEL - UPDATED FOR SIZE OR INCOMPATIBLE CHANGE
1	DECIMAL	0	CHDIRINV	VERB CODE FOR DIRECT COMMAND INVOCATION
4	CHARACTER	CSCX	CHXID	CSCX ACRONYM CONSTANT
1	DECIMAL	1	CXSP41	VERSION LEVEL HBB4410
1	DECIMAL	1	CXVERID	VERSION LEVEL - UPDATED FOR SIZE OR INCOMPATIBLE CHANGE

Table 514. Cross Reference for CSCB

Name	Offset	Hex Tag
CH_CHLOGOPS_VALID	BB	08
CHABTERM	6	01
CHAC	40	08
CHACT	7	
CHACT1	23	
CHAD	6	08
CHAFORCE	7	01
CHAIFX	7	02
CHAIN	0	
CHAINS01	28	
CHALL	AE	80
CHAP	6	80
CHARID	A7	
CHARSV20	40	80
CHARSV21	40	04
CHARSV22	40	02
CHARSV23	40	01
CHARSV25	A4	40
CHARSV26	A4	20
CHARSV27	A4	10
CHARSV28	A4	08
CHARSV29	A4	04
CHARSV40	4C	
CHASID	1E	
CHASM	28	
CHASWT	A8	
CHAUTH	B8	
CHAUTHA	B8	
CHAUTHB	B9	
CHAUTH1	B8	80
CHAUTH2	B8	40
CHAUTH3	B8	20

Table 514. Cross Reference for CSCB (continued)

Name	Offset	Hex Tag
CHBIGRP	BB	40
CHBUF	28	
CHCART	C8	
CHCECB	3C	
CHCIBCTR	1B	
CHCIBP	C	
CHCL	7	08
CHCLD	7	04
CHCLS	10	
CHCMFLGA	B4	
CHCMFLGB	B6	
CHCMFLGS	B4	
CHCMFLG1	B4	
CHCMFLG2	B5	
CHCMFLG3	B6	
CHCMFLG4	B7	
CHCMFL44	B7	10
CHCMF11	B4	80
CHCMF12	B4	40
CHCMF13	B4	20
CHCMF14	B4	10
CHCMF15	B4	08
CHCMF16	B4	04
CHCMF17	B4	02
CHCMF18	B4	01
CHCMF21	B5	80
CHCMF22	B5	40
CHCMF23	B5	20
CHCMF24	B5	10
CHCMF25	B5	08
CHCMF26	B5	04
CHCMF27	B5	02
CHCMF28	B5	01
CHCNSIDI	C4	
CHCNSIDT	C0	
CHCSCBID	D8	
CHCSCBP	20	
CHCSCXID	0	
CHCSCXP	DC	
CHCSYSO	AE	
CHDEF	A4	01
CHDISC	7	20
CHDISP	BA	
CHDISPA	BA	80
CHDISPC	BA	20
CHDISPE	BA	08
CHDISPM	BA	40
CHDISPR	BA	10
CHDITOKN	E0	

Table 514. Cross Reference for CSCB (continued)

Name	Offset	Hex Tag
CHDL	6	04
CHDSI	7	10
CHDSTAT	A4	80
CHDUMP	AE	04
CHECB	14	
CHECBP	8	
CHFC	6	02
CHFLG	4	
CHFLGS	BB	
CHHIAR	A4	02
CHHOLD	AE	10
CHIFY	7	01
CHINC	AC	
CHINFMT	6	40
CHINN	AE	40
CHISJOB	B0	40
CHJB	AE	02
CHJBFLGS	B0	
CHJBRSV1	B0	3F
CHJBSTRT	B0	80
CHJCL	4C	
CHJCT	40	40
CHJSCBVS	A4	
CHKEY	8	
CHLAST	100	
CHLEQUAL	BB	10
CHLOFF	D0	
CHLOGOPS	28	
CHMAXRGN	BB	04
CHMEMNAM	E0	
CHNAME	18	
CHNOALC	BB	20
CHNOBY	B7	02
CHOCID	E4	
CHOSYSN	F4	
CHOUT	AE	20
CHPARM	8	
CHPCOI	8	80
CHPEND	A8	
CHPKE	1C	
CHPMSI	BB	80
CHPOSTSS	7	02
CHPREVP	D4	
CHPROCSN	20	
CHPSD	40	20
CHPSF	40	10
CHPTR	0	
CHQID	20	
CHQSPC	6	10

Table 514. Cross Reference for CSCB (continued)

Name	Offset	Hex Tag
CHQUE	AE	08
CHRES	22	
CHRESF	E8	
CHRESG	B8	
CHRESH	F4	
CHRESV	FC	
CHRES0	30	
CHRES1	28	
CHRES2	2C	
CHRES3	38	
CHRES4	50	
CHRES5	B0	
CHRES7	D2	
CHRES8	54	
CHRGNAD	34	
CHRGNSZ	48	
CHRIMWT	A4	
CHRSV2	E8	
CHRSV3	1D	
CHRSV4	A5	
CHRTDM	B7	10
CHRTOKEN	10	
CHRTOKHR	10	80
CHRTOKIN	24	
CHSAVWD1	A8	
CHSAVWD2	AC	
CHSMSVL	23	20
CHSOUT	6	20
CHSPA	AF	
CHSPB	44	
CHSQA	74	
CHSTEP	40	
CHSTS	6	
CHSTTXTA	F0	
CHSWAP	7	80
CHSWT	40	
CHSZE	5	
CHTCB	41	
CHTERM	7	40
CHTJID	1E	
CHTJY	B7	40
CHTRKID	1C	
CHTYPE	A4	
CHUNIT	18	
CHUNIT4	EC	
CHUSCVS	A0	
CHUSERID	AE	01
CHUTOK	BC	
CHVARY	23	

Table 514. Cross Reference for CSCB (continued)

Name	Offset	Hex Tag
CHVCD	4	
CHVDIENQ	23	80
CHVERSN	D1	
CHVRSV2	23	10
CHVRSV3	23	08
CHVRSV4	23	04
CHVRSV5	23	02
CHVRSV6	23	01
CHVSUNPM	23	40
CHXRES	5	
CHXVERSN	4	
CSCX	0	

Chapter 120. CSD Information

CSD Programming Interface Information

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

- CSD_BYLPAR_CP_MASK_ADDR
- CSD_BYLPAR_ZAAP_MASK_ADDR
- CSD_BYLPAR_ZIIP_MASK_ADDR
- CSD_CPU_ALIVE_ADDR
- CSD_NUMBER_ONLINE_CPUS
- CSD_NUMBER_ONLINE_IFAS
- CSD_NUMBER_ONLINE_STANDARD_CPS
- CSD_NUMBER_ONLINE_zIIPS
- CSDCPUAL
- CSDCPUOL
- CSDRCPT

CSD Heading Information

Common Name:	COMMON SYSTEM DATA AREA (CSD).
Macro ID:	IHACSD.
DSECT Name:	CSD.
Owning Component:	RECONFIGURATION (SC1CZ).
Eye-Catcher ID:	CSD. Offset: 0 Length: 4
Storage Attributes:	Subpool: 245. Key: 0, NOT FETCH PROTECTED. Residency: BELOW 16M, SQA.
Size:	312 BYTES.
Created by:	IEAVNIP0 DURING NIP.
Pointed to by:	CVT FIELDS CVTCSD AND CVTCSDRL.
Serialization:	COMPARE AND SWAP.
Function:	CONTAINS INFORMATION ABOUT THE PROCESSORS IN THE SYSTEM.

CSD mapping

Table 515. Structure CSD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CSD	
0	(0)	CHARACTER	4	CSDCSD	- CONTROL BLOCK ACRONYM IN EBCDIC
4	(4)	SIGNED	4	CSDCPUJW(0)	CPUS AVAILABLE FOR JOB SCHEDULING INFORMATION WORD. SERIALIZATION - SYSZCSD.CSDCPUJS RESOURCE AND CS. ONLY CS DURING ACR.

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Table 515. Structure CSD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	2	CSDCPUJS	- Bit mask of CPUs available for Affinity job scheduling: limited to CPUs 0-15
6	(6)	SIGNED	2		- Reserved: (was CSDCHAD)
8	(8)	SIGNED	4	CSDCPUOW(0)	CPUS ONLINE INFORMATION WORD. SERIALIZATION - SYSZVARY.CPU RESOURCE AND CS. ONLY CS DURING ACR.
8	(8)	BITSTRING	2	CSDSAFF(0)	- BIT MASK OF CPUS AVAILABLE TO PROCESS SERVICE REQUESTS (SRB'S)
8	(8)	BITSTRING	2	CSDCPUAL	- Bit mask of CPUs currently alive. Applies only to CPUs 0-15. See CSD_CPU_ALIVE
10	(A)	SIGNED	2	CSDCPUOL	- Number of CPUs currently alive. This includes CPs, IFAs, and SUPs
12	(C)	BITSTRING	4	CSDSCWRD(0)	- SUPERVISOR CONTROL INFORMATION
12	(C)	BITSTRING	1	CSDSCFL1	- FIRST BYTE OF CSDSCWRD
		1...		CSDRV042	"X'80',,C'X'" - RESERVED
		.1..		CSDSYSND	"X'40'" - SYSTEM-WIDE NON-DISPATCHABILITY BIT. INDICATES ALL ADDRESS SPACES (SRB'S AND TASKS) ARE NON-DISPATCHABLE EXCEPT THOSE WITH EXEMPT STATUS (ASCBXMPT)
		..1.		CSDRV001	"X'20',,C'X'" - RESERVED
		...1		CSDRV002	"X'10',,C'X'" - RESERVED
		.... 1...		CSDRV003	"X'08',,C'X'" - RESERVED
		.... .1..		CSDRV004	"X'04',,C'X'" - RESERVED
		.... ..1.		CSDRV005	"X'02',,C'X'" - RESERVED
		1		CSDRV006	"X'01',,C'X'" - RESERVED
13	(D)	BITSTRING	1	CSDSCFL2	- SECOND BYTE OF CSDSCWRD
		1...		CSDRV007	"X'80',,C'X'" - RESERVED
		.1..		CSDRV008	"X'40',,C'X'" - RESERVED
		..1.		CSDRV009	"X'20',,C'X'" - RESERVED
		...1		CSDRV010	"X'10',,C'X'" - RESERVED
		.... 1...		CSDRV011	"X'08',,C'X'" - RESERVED
		.... .1..		CSDRV012	"X'04',,C'X'" - RESERVED
		.... ..1.		CSDRV013	"X'02',,C'X'" - RESERVED
		1		CSDRV014	"X'01',,C'X'" - RESERVED
14	(E)	BITSTRING	1	CSDSCFL3	- THIRD BYTE OF CSDSCWRD
		1...		CSDRV015	"X'80',,C'X'" - RESERVED
		.1..		CSDRV016	"X'40',,C'X'" - RESERVED
		..1.		CSDRV017	"X'20',,C'X'" - RESERVED
		...1		CSDRV018	"X'10',,C'X'" - RESERVED
		.... 1...		CSDRV019	"X'08',,C'X'" - RESERVED
		.... .1..		CSDRV020	"X'04',,C'X'" - RESERVED
		.... ..1.		CSDRV021	"X'02',,C'X'" - RESERVED
		1		CSDRV022	"X'01',,C'X'" - RESERVED
15	(F)	BITSTRING	1	CSDSCFL4	- FOURTH BYTE OF CSDSCWRD
		1...		CSDRV023	"X'80',,C'X'" - RESERVED
		.1..		CSDRV024	"X'40',,C'X'" - RESERVED
		..1.		CSDRV025	"X'20',,C'X'" - RESERVED

Table 515. Structure CSD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		CSDRV026	"X'10',,C'X'" - RESERVED
		.... 1...		CSDRV027	"X'08',,C'X'" - RESERVED
		.... .1..		CSDRV028	"X'04',,C'X'" - RESERVED
		.... ..1.		CSDRV029	"X'02',,C'X'" - RESERVED
		1		CSDRV030	"X'01',,C'X'" - RESERVED
16	(10)	SIGNED	4		Was CSDAXPOW, CSDAXPAL, CSDAXPOL
20	(14)	BITSTRING	2	CSDMF1CP	- BIT MASK OF CPUS VARIED ON OR OFFLINE. MF/1 TESTS THESE FLAGS AT REPORTING INTERVALS FOR CPU VARY ACTIVITY AND THEN RESETS THEM TO ZERO
22	(16)	BITSTRING	1	CSDACR	- VALUE OF X'FF' MEANS ACR IS IN PROGRESS
23	(17)	BITSTRING	1	CSDFLAGS	- FLAG BYTE
		1...		CSDMP	"X'80'" - RESERVED - DO NOT USE
		.1..		CSDSTCHK	"X'40'" - STORAGE CHECK INDICATOR - SET BY RSM WHENEVER IT MARKS A FRAME 'BAD' BECAUSE OF A STORAGE ERROR MACHINE CHECK. IT IS TESTED IN VARY STORAGE ELEMENT OFFLINE PROCESSING.
		..1.		CSDCPUDN	"X'20',,C'X'" - GLOBAL BIT INDICATING CPU INITIALIZATION IS COMPLETE SO THAT OTHER COMPONENTS CAN PERFORM THEIR PROCESSING
		...1		CSDNDPAR	"X'10',,C'X'" - RUNNING IN NON-DEDICATED PARTITION.
		.... 1...		CSDPRCPU	"X'08',,C'X'" - Preserve CPU status
		.... .1..		CSDRV036	"X'04',,C'X'" - RESERVED
		.... ..1.		CSDRV037	"X'02',,C'X'" - RESERVED
		1		CSDRV038	"X'01',,C'X'" - RESERVED
delete CSDMAFF - no longer referenced, length of 80 bytes. the space is reused by the following fields, down to the reserved field defining the remaining unused space					
24	(18)	CHARACTER	64	CSDRV039	RESERVED 49
88	(58)	BITSTRING	16	CSDRV04C	Reserved space on Dword Bdy
104	(68)	BITSTRING	2		- Reserved: was CSDCPWLM
106	(6A)	SIGNED	2	CSDDDRCT	- DDR DEVICE ALLOCATION INTERFACE COUNT FIELD. ACCESSED AND MODIFIED UNDER CMS LOCK. INCREMENTED BY DDR TO INDICATE TO DYNAMIC ALLOCATION THAT DDR EXCHANGED ADDRESSES IN THE IOS LOOKUP TABLE.
108	(6C)	SIGNED	4	CSDGDCC	- COUNT OF USABLE CLOCK COMPARATORS CURRENTLY IN THE CONFIGURATION
112	(70)	SIGNED	4	CSDGDINT	- COUNT OF USABLE CPU TIMERS CURRENTLY IN THE CONFIGURATION
116	(74)	SIGNED	4	CSDGDTOD	- COUNT OF CPUS THAT HAVE ACCESS TO A GOOD TOD CLOCK

Table 515. Structure CSD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
120	(78)	SIGNED	4	CSDTCNT	- COUNT OF TAPE ALLOCATIONS IN PROGRESS
124	(7C)	SIGNED	4	CSDUCNT	- COUNT OF UNIT RECORD ALLOCATIONS IN PROGRESS
128	(80)	BITSTRING	32	CSDMASK(0)	- TABLE OF BIT MASKS FOR TESTING BITS IN CSDCPUAL, INDEXED FROM 1 TO 16.
128	(80)	BITSTRING	32	CSDMASK0(0)	- TABLE OF BIT MASKS FOR TESTING BITS IN CSDCPUAL, INDEXED FROM 0 TO 15.
128	(80)	BITSTRING	2		- CPU 0
130	(82)	BITSTRING	2		- CPU 1
132	(84)	BITSTRING	2		- CPU 2
134	(86)	BITSTRING	2		- CPU 3
136	(88)	BITSTRING	2		- CPU 4
138	(8A)	BITSTRING	2		- CPU 5
140	(8C)	BITSTRING	2		- CPU 6
142	(8E)	BITSTRING	2		- CPU 7
144	(90)	BITSTRING	2		- CPU 8
146	(92)	BITSTRING	2		- CPU 9
148	(94)	BITSTRING	2		- CPU A
150	(96)	BITSTRING	2		- CPU B
152	(98)	BITSTRING	2		- CPU C
154	(9A)	BITSTRING	2		- CPU D
156	(9C)	BITSTRING	2		- CPU E
158	(9E)	BITSTRING	2		- CPU F
160	(A0)	BITSTRING	1	CSDIOSID	RESERVED -- DO NOT REUSE
161	(A1)	BITSTRING	1	CSDICPUS	- The number of initial (LPAR-defined) CPUs
162	(A2)	BITSTRING	1	CSDIIFAS(0)	- The number of initial (LPAR-defined) IFA processors
162	(A2)	BITSTRING	1	CSDI_BYLPAR_IFAS	
163	(A3)	BITSTRING	1	CSDISUPS(0)	- The number of initial (LPAR-defined) SUP processors
163	(A3)	BITSTRING	1	CSDI_BYLPAR_SUPS	
164	(A4)	BITSTRING	4	CSDRV0A4	RESERVED WAS CSDCPUVW
168	(A8)	ADDRESS	4	CSDCMT	- ADDRESS OF THE CONFIGURATION MANAGEMENT TABLE.
172	(AC)	ADDRESS	4	CSDESAT	- ADDRESS OF THE EXCESSIVE SPIN RECOVERY ACTION TABLE USED BY IEEVEXSN.
176	(B0)	ADDRESS	4	CSDTMPES	- ADDRESS OF THE EXCESSIVE SPIN RECOVERY ACTION TABLE SET UP BY IEEVESAI AS A RESULT OF A SET EXS= COMMAND. THE ACTIONS DEFINED BY THIS TABLE BECOME EFFECTIVE THE NEXT TIME IEEVEXSN PROCESSES A NEW SPIN LOOP.
180	(B4)	ADDRESS	4	CSDRCFV	- ADDRESS OF THE RECONFIGURATION VECTOR TABLE.
184	(B8)	CHARACTER	16	CSDCPSID	TABLE OF SIDE ID FOR EACH CPU IN THE SYSTEM
200	(C8)	SIGNED	4	CSDEXSFL_WORD	FLAGS FOR EXCESSIVE SPIN
	1111			CSDEXSFL_ESAI	"X'F0'" SET BY IEEVESAI

Table 515. Structure CSD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	 1111			CSDEXSFL_EXSN	"X'0F'" SET BY IEEVEXSN
204	(CC)	ADDRESS	4	CSDLWVCT	- ADDRESS OF THE LOADWAIT VECTOR TABLE AS MAPPED BY BLWMLWVT.
208	(D0)	SIGNED	4	CSDCRWRD(0)	CRYPTO INFORMATION WORD.
208	(D0)	BITSTRING	2	CSDCRYPT	- BIT MASK OF ONLINE CRYPTO FACILITIES.
210	(D2)	BITSTRING	2	CSDCRINS	- BIT MASK OF INSTALLED CRYPTO FACILITIES.
212	(D4)	SIGNED	4	CSD_NUMBER_ONLINE_CPUS	32-bit count of alive CPUs. This includes CPs, IFAs, and SUPs
216	(D8)	ADDRESS	4	CSDUMVCL	- ADDRESS OF THE IEEUMVCL ENTRY POINT
220	(DC)	ADDRESS	4	CSDUSTCK	- ADDRESS OF THE IEEUSTCK ENTRY POINT
224	(E0)	ADDRESS	4	CSD$ESTA	- ADDRESS OF THE ISN$ESTA ENTRY POINT
228	(E4)	ADDRESS	4	CSD$FRR	- ADDRESS OF THE ISN$FRR ENTRY POINT
232	(E8)	ADDRESS	4	CSDSCPIN	- ADDRESS OF THE ISN$SCPI ENTRY POINT
236	(EC)	SIGNED	2	CSDMAXMP	Maximum CPU address in configuration
238	(EE)	BITSTRING	2		- RESERVED.
240	(F0)	DBL WORD	8	CSDEXCDS(0)	DWORD BDY FOR CDS INSTRUCTION TO UPDATE GLOBAL-EXEMPTION COUNT AND END-TIME
240	(F0)	SIGNED	4	CSDEXCNT	COUNT OF ACTIVE USERS OF GLOBAL SPIN-LOOP EXEMPTION. THIS FIELD MUST BE ON A DWORD BOUNDARY AND ADJACENT TO CSDEXSEC FOR THE CDS INSTRUCTION.
244	(F4)	SIGNED	4	CSDEXSEC	EXPIRATION TIME (DOWN TO SECONDS) FOR GLOBAL EXEMPTION FROM SPIN-LOOP RECOVERY (TOP HALF OF TOD CLOCK)
248	(F8)	ADDRESS	4	CSDGLEX	- ADDRESS OF THE MACRO PROCESSOR (BLWGLEX) FOR GLOBAL SPIN-LOOP EXEMPTION
252	(FC)	BITSTRING	1	CSDPLPN	PRSM LOGICAL PARTITION NUMBER
253	(FD)	BITSTRING	1		RESERVED. WAS CSDEXSFL
254	(FE)	BITSTRING	2		RESERVED
256	(100)	BITSTRING	256	CSD_ROBLOCK_100(0)	Primarily readonly block
256	(100)	ADDRESS	4	CSDRCPT	Address to the LCCA,LCCX and PCCA pointer table for WLM config cpu offline requests.
260	(104)	SIGNED	4	CSD_NUMBER_ONLINE_IFAS(0)	zAAPs online
260	(104)	SIGNED	4	CSD_NUMBER_ONLINE_BYLPAR_ZAAPS(0)	zAAPs online
260	(104)	SIGNED	4	CSD_NUMBER_ONLINE_BYLPAR_IFAS	zAAPs online
264	(108)	SIGNED	4	CSD_NUMBER_ONLINE_STANDARD_CPS(0)	Regular CPs online
264	(108)	SIGNED	4	CSD_NUMBER_ONLINE_BYLPAR_STANDARD_CPS	Regular CPs online

Table 515. Structure CSD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
268	(10C)	SIGNED	4	CSD_NUMBER_ONLINE_ZIIPS(0)	zIIPs online
268	(10C)	SIGNED	4	CSD_NUMBER_ONLINE_BYLPAR_ZIIPS(0)	zIIPs online
268	(10C)	SIGNED	4	CSD_NUMBER_ONLINE_BYLPAR_SUPS(0)	zIIPs online
268	(10C)	SIGNED	4	CSD_NUMBER_ONLINE_SUPS	
272	(110)	BITSTRING	88	CSDR110	- RESERVED.
360	(168)	ADDRESS	4	CSD_CPU_ALIVE_ADDR	CPU alive mask pointer. Points to a bitmask on a double word boundary (for compare and swap) that is ECVTMaxMPNumBytesInMask bytes long where the first (CVTMAXMP+1) bits are valid.
364	(16C)	ADDRESS	4	CSD_BYLPAR_CP_MASK_ADDR	Pointer to mask of processors defined as standard processors - not necessarily online. Points to a bitmask on a double word boundary (for compare and swap) that is ECVTMaxMPNumBytesInMask bytes long where the first (CVTMAXMP+1) bits are valid.
368	(170)	ADDRESS	4	CSD_BYLPAR_ZAAP_MASK_ADDR	Pointer to mask of processors defined as special processors - not necessarily online. Points to a bitmask on a double word boundary (for compare and swap) that is ECVTMaxMPNumBytesInMask bytes long where the first (CVTMAXMP+1) bits are valid.
372	(174)	ADDRESS	4	CSD_BYLPAR_ZIIP_MASK_ADDR	Pointer to mask of processors defined as zIIP processors - not necessarily online. Points to a bitmask on a double word boundary (for compare and swap) that is ECVTMaxMPNumBytesInMask bytes long where the first (CVTMAXMP+1) bits are valid.
376	(178)	ADDRESS	4	CSD_CPUS_GOING_ON_OR_OFF_MASK_ADDR	Pointer to mask of CPUs configured on or off during a reporting interval. Points to a bitmask on a double word boundary (for compare and swap) that is ECVTMaxMPNumBytesInMask bytes long where the first (CVTMAXMP+1) bits are valid.
380	(17C)	ADDRESS	4	CSD_CPUS_MANIPULATED_BY_WLM_ADDR	

Table 515. Structure CSD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					Pointer to mask of CPUs manipulated by WLM. If bit x is on, then WLM put the CPU into its current state (online or offline). Points to a bitmask on a double word boundary (for compare and swap) that is ECVTMaxMPNumBytesInMask bytes long where the first (CVTMAXMP+1) bits are valid.
384	(180)	ADDRESS	4	CSD_CPUS_VARIED_OFFLINE_BY_OPERATOR_ADDR	
					Pointer to mask of CPUs configured offline by the operator. Points to a bitmask on a double word boundary (for compare and swap) that is ECVTMaxMPNumBytesInMask bytes long where the first (CVTMAXMP+1) bits are valid.
388	(184)	ADDRESS	4	CSD_CPUS_TAKEN_OFFLINE_BY_ACR_ADDR	
					Pointer to mask of CPUs configured offline by ACR. Points to a bitmask on a double word boundary (for compare and swap) that is ECVTMaxMPNumBytesInMask bytes long where the first (CVTMAXMP+1) bits are valid.
392	(188)	BITSTRING	120		- RESERVED (primarily readonly)
512	(200)	DBL WORD	8	CSDEND(0)	End of CSD control block
512	(200)	X'200'	0	CSDLEN	"CSDEND-CSD" Length of CSD control block
512	(200)	X'F'	0	CSD_MAX_CRYPTO_ADDRESS	"15" Maximum supported Crypto address
512	(200)	X'F'	0	CSD_MAX_AFFINITY_ADDRESS	"15" Max CPU supporting affinity

Table 516. Cross Reference for CSD

Name	Offset	Hex Tag
CSD	0	
CSD$ESTA	E0	
CSD$FRR	E4	
CSD_BYLPAR_CP_MASK_ADDR	16C	
CSD_BYLPAR_ZAAP_MASK_ADDR	170	
CSD_BYLPAR_ZIIP_MASK_ADDR	174	
CSD_CPU_ALIVE_ADDR	168	
CSD_CPUS_GOING_ON_OR_OFF_MASK_ADDR	178	
CSD_CPUS_MANIPULATED_BY_WLM_ADDR	17C	
CSD_CPUS_TAKEN_OFFLINE_BY_ACR_ADDR	184	
CSD_CPUS_VARIED_OFFLINE_BY_OPERATOR_ADDR	180	
CSD_MAX_AFFINITY_ADDRESS	200	F
CSD_MAX_CRYPTO_ADDRESS	200	F
CSD_NUMBER_ONLINE_BYLPAR_IFAS	104	

Table 516. Cross Reference for CSD (continued)

Name	Offset	Hex Tag
CSD_NUMBER_ONLINE_BYLPAR_STANDARD_CPS	108	
CSD_NUMBER_ONLINE_BYLPAR_SUPS	10C	
CSD_NUMBER_ONLINE_BYLPAR_ZAAPS	104	
CSD_NUMBER_ONLINE_BYLPAR_ZIIPS	10C	
CSD_NUMBER_ONLINE_CPUS	D4	0
CSD_NUMBER_ONLINE_IFAS	104	
CSD_NUMBER_ONLINE_STANDARD_CPS	108	
CSD_NUMBER_ONLINE_SUPS	10C	
CSD_NUMBER_ONLINE_ZIIPS	10C	
CSD_ROBLOCK_100	100	
CSDACR	16	0
CSDCMT	A8	
CSDCPSID	B8	
CSDCPUAL	8	0
CSDCPUDN	17	20
CSDCPUJS	4	0
CSDCPUJW	4	
CSDCPUOL	A	0
CSDCPUOW	8	
CSDCRINS	D2	0
CSDCRWRD	D0	
CSDCRYPT	D0	0
CSDCSD	0	C3E2C440
CSDDDRCT	6A	0
CSDEND	200	
CSDESAT	AC	
CSDEXCDS	F0	
CSDEXCNT	F0	0
CSDEXSEC	F4	0
CSDEXSFL_ESAI	C8	F0
CSDEXSFL_EXSN	C8	F
CSDEXSFL_WORD	C8	
CSDFLAGS	17	0
CSDGDCC	6C	0
CSDGDINT	70	0
CSDGDTOD	74	0
CSDGLEX	F8	
CSDI_BYLPAR_IFAS	A2	0
CSDI_BYLPAR_SUPS	A3	0
CSDICPUS	A1	0
CSDIIFAS	A2	
CSDIOSID	A0	0
CSDISUPS	A3	
CSDLEN	200	200
CSDLWVCT	CC	
CSDMASK	80	
CSDMASK0	80	
CSDMAXMP	EC	0
CSDMF1CP	14	0

Table 516. Cross Reference for CSD (continued)

Name	Offset	Hex Tag
CSDMP	17	80
CSDNDPAR	17	10
CSDPLPN	FC	
CSDPRCPU	17	8
CSDRCFV	B4	
CSDRCPT	100	
CSDRV0A4	A4	
CSDRV001	C	20
CSDRV002	C	10
CSDRV003	C	8
CSDRV004	C	4
CSDRV005	C	2
CSDRV006	C	1
CSDRV007	D	80
CSDRV008	D	40
CSDRV009	D	20
CSDRV010	D	10
CSDRV011	D	8
CSDRV012	D	4
CSDRV013	D	2
CSDRV014	D	1
CSDRV015	E	80
CSDRV016	E	40
CSDRV017	E	20
CSDRV018	E	10
CSDRV019	E	8
CSDRV020	E	4
CSDRV021	E	2
CSDRV022	E	1
CSDRV023	F	80
CSDRV024	F	40
CSDRV025	F	20
CSDRV026	F	10
CSDRV027	F	8
CSDRV028	F	4
CSDRV029	F	2
CSDRV030	F	1
CSDRV036	17	4
CSDRV037	17	2
CSDRV038	17	1
CSDRV039	18	F0F04040
CSDRV04C	58	0
CSDRV042	C	80
CSDR110	110	0
CSDSAFF	8	
CSDSCFL1	C	0
CSDSCFL2	D	0
CSDSCFL3	E	0
CSDSCFL4	F	0

Table 516. Cross Reference for CSD (continued)

Name	Offset	Hex Tag
CSDSCPIN	E8	
CSDSCWRD	C	
CSDSTCHK	17	40
CSDSYSND	C	40
CSDTCNT	78	0
CSDTMPES	B0	
CSDUCNT	7C	0
CSDUMVCL	D8	
CSDUSTCK	DC	

Chapter 121. CSRBPASM Information

CSRBPASM Programming Interface Information

CSRBPASM is a programming interface.

CSRBPASM Heading Information

Common Name:	Block Paging Service Assembler Declares
Macro ID:	CSRBPASM
DSECT Name:	N/A
Owning Component:	CALLABLE SERVICE REQUESTS (SCCSR)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: N/A Key: N/A Residency: N/A
Size:	N/A
Created by:	N/A
Pointed to by:	N/A
Serialization:	None required
Function:	CSRBPASM defines Block Paging service names and related constants for programs written in Assembler-H.

CSRBPASM mapping

Table 517. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

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Table 517. Structure (continued)

```
  Offset    Offset
     Dec       Hex Type                 Len  Name(Dim)                  Description
-------------------------------------------------------------------------------------

    Start of Specifications
     Name: CSRBPASM
     PROPRIETARY_STATEMENT
 01 PROPRIETARY STATEMENT=
  LICENSED MATERIALS - PROPERTY OF IBM
  THIS MACRO IS "RESTRICTED MATERIALS OF IBM"
  5695-047 (C) COPYRIGHT IBM CORP. 1992
  SEE COPYRIGHT INSTRUCTIONS
  Status: HBB4430
     END_OF_PROPRIETARY_STATEMENT
 01 Descriptive Name: Block Paging Service Assembler Declares
 02 Acronym: CSRBPASM
 01 Macro Name: CSRBPASM
 01 DSECT Name: N/A
 01 EXTERNAL CLASSIFICATION: GUPI
 01 END OF EXTERNAL CLASSIFICATION:
 01 Component: CALLABLE SERVICE REQUESTS (SCCSR)
 01 Eye-Catcher: NONE
 01 Storage Attributes:
 02 Subpool: N/A
 02 Key: N/A
 02 Residency: N/A
 01 Size: N/A
 01 Created by: N/A
 01 Pointed to by: N/A
 01 Serialization: None required
 01 Function:
 02 CSRBPASM defines Block Paging service names and related
      constants for programs written in Assembler-H.
 01 Method of Access:
 02 ASM:
       Invoke CSRBPASM with no positional or keyword arguments.
 01 Notes:
      1. The START parameter should be the name denoting the
      start of the area for which the reference pattern applies. It
      should NOT be a pointer to the area. For example, use
      MYAREA, not MYAREAPTR.
 01 Change Activity:
   $L0=BPAGER21, HBB4410, 900122, PDBV: Block Paging Service
   $D1=DCR0331, HBB4410, 900213, PDBV: Change parameter list
   $P1=PKB0858, HBB4420, 920318, PD00DZ: Make EQU's left-justified
   $P2=PKB3060, HBB4430, 920617, PD00DZ: Correct EXTRN statement
   $P3=PSY0288, JBB6604, 970221, PD00KC: Remove characters from
                                         column 72 in prolog
    End of Specifications
   Constants
   Forwards direction of reference (third parameter)
-------------------------------------------------------------------------------------
       0       (0) X'1'                  0   CSR_FORWARDS               "1"
   Backwards direction of reference (third parameter)
-------------------------------------------------------------------------------------
       0       (0) X'FFFFFF'             0   CSR_BACKWARDS              "-1"
   Services
-------------------------------------------------------------------------------------

   End of Block Paging Services Declares
-------------------------------------------------------------------------------------
```

Chapter 122. CSRCPASM Information

CSRCPASM Programming Interface Information

CSRCPASM is a programming interface.

CSRCPASM Heading Information

Common Name:	Bit Mapped Cell Pool Service Assembler Declares
Macro ID:	CSRCPASM
DSECT Name:	N/A
Owning Component:	CALLABLE SERVICE REQUESTS (SCCSR)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: N/A Key: N/A Residency: N/A
Size:	N/A
Created by:	N/A
Pointed to by:	N/A
Serialization:	None required
Function:	CSRCPASM defines Cell Pool service names and related constants for programs written in Assembler-H.

CSRCPASM mapping

Table 518. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

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Table 518. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Start of Specifications Name: CSRCPASM PROPRIETARY_STATEMENT 01 PROPRIETARY STATEMENT= LICENSED MATERIALS - PROPERTY OF IBM THIS MACRO IS "RESTRICTED MATERIALS OF IBM" 5694-A01 (C) COPYRIGHT IBM CORP. 1992,2002 Status: HBB7706 02 EXTERNAL CLASSIFICATION: GUPI 02 END OF EXTERNAL CLASSIFICATION: END_OF_PROPRIETARY_STATEMENT 01 Descriptive Name: Bit Mapped Cell Pool Service Assembler Declares 02 Acronym: CSRCPASM 01 Macro Name: CSRCPASM 01 DSECT Name: N/A 01 Component: CALLABLE SERVICE REQUESTS (SCCSR) 01 Eye-Catcher: NONE 01 Storage Attributes: 02 Subpool: N/A 02 Key: N/A 02 Residency: N/A 01 Size: N/A 01 Created by: N/A 01 Pointed to by: N/A 01 Serialization: None required 01 Function: 02 CSRCPASM defines Cell Pool service names and related constants for programs written in Assembler-H. 01 Method of Access: 02 ASM: Invoke CSRCPASM with no positional or keyword arguments. 01 Change Activity: $L0=CPOOL , JBB3313, 881125, PDAO: Callable Cell Pool Service $P1=PHB1070 , JBB3313, 890112, PDET: Obj. Code Only considerations $P2=PKB0857 , HBB4410, 920318, PD00DZ: Remove 'END' at the end $01=OY62046 , HBB4430, 930308, PDPA: Move asterisks from column 72 in prologue to column 71 $P3=PIG2258 , HBB5510, 930909, PD00JV: Add external classification $P4=PQCxxxx , HBB6603, 960418, PD00XB: GT1/RGT1/FR1/RFR1 $L1=CP5 , HBB7706, 010331, PD00XB: GT2/FR2 End of Specifications Constants Length of the cell pool anchor data area					
0	(0) X'40'		0	CSR_ANCHOR_LENGTH	"64"
Base length of the cell pool extent data area					
0	(0) X'80'		0	CSR_EXTENT_BASE	"128"
Length of the user-supplied pool name					
0	(0) X'8'		0	CSR_POOL_NAME_LEN	"8"
Length of the user-supplied savearea for GT1/RGT1/GT2/FR1/RFR1/FR2					
0	(0) X'90'		0	CSR_SAVEAREA_LEN	"144"
Control Services					
Get/Free Services					

Table 518. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Other get/free services (no extrn) CSRPGT1,CSRPRGT1,CSRPFR1,CSRPRFR1 CSRPGT2,CSRPFR2 Query Services					
End of Bit Mapped Cell Pool Services Declares					

Table 519. Cross Reference for CSRCPASM

Name	Offset	Hex Tag
CSR_ANCHOR_LENGTH	0	40
CSR_EXTENT_BASE	0	80
CSR_POOL_NAME_LEN	0	8
CSR_SAVEAREA_LEN	0	90

Chapter 123. CSRC4ASM Information

CSRC4ASM Programming Interface Information

CSRC4ASM is a programming interface.

CSRC4ASM Heading Information

Common Name:	Bit Mapped Cell Pool Service Assembler Declares
Macro ID:	CSRC4ASM
DSECT Name:	N/A
Owning Component:	CALLABLE SERVICE REQUESTS (SCCSR)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: N/A Key: N/A Residency: N/A
Size:	N/A
Created by:	N/A
Pointed to by:	N/A
Serialization:	None required
Function:	CSRC4ASM defines Cell Pool service names and related constants for programs written in Assembler-H.

CSRC4ASM mapping

Table 520. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

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Table 520. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Start of Specifications Name: CSRC4ASM PROPRIETARY_STATEMENT 01 PROPRIETARY STATEMENT= LICENSED MATERIALS - PROPERTY OF IBM 5694-A01 (C) COPYRIGHT IBM CORP. 2002 Status: HBB7706 02 EXTERNAL CLASSIFICATION: PI 02 END OF EXTERNAL CLASSIFICATION: END_OF_PROPRIETARY_STATEMENT 01 Descriptive Name: Bit Mapped Cell Pool Service Assembler Declares 02 Acronym: CSRC4ASM 01 Macro Name: CSRC4ASM 01 DSECT Name: N/A 01 Component: CALLABLE SERVICE REQUESTS (SCCSR) 01 Eye-Catcher: NONE 01 Storage Attributes: 02 Subpool: N/A 02 Key: N/A 02 Residency: N/A 01 Size: N/A 01 Created by: N/A 01 Pointed to by: N/A 01 Serialization: None required 01 Function: 02 CSRC4ASM defines Cell Pool service names and related constants for programs written in Assembler-H. 01 Method of Access: 02 ASM: Invoke CSRC4ASM with no positional or keyword arguments. 01 Change Activity: $L0=64V2 HBB7706 010101, PDXB: $P1=PYV0470 HBB7707 020308, PDXB: Increased extent base size End of Specifications Constants Length of the cell pool anchor data area					
0	(0) X'40'		0	CSRC4_ANCHOR_LENGTH	"64"
Base length of the cell pool extent data area					
0	(0) X'C0'		0	CSRC4_EXTENT_BASE	"192"
Length of the user-supplied pool name					
0	(0) X'8'		0	CSRC4_POOL_NAME_LEN	"8"
Length of the user-supplied savearea for CSRC4GT1/CSRC4RG1/CSRC4FR1/CSRC4RF1/CSRC4GT2/CSRC4FR2					
0	(0) X'D8'		0	CSRC4_SAVEAREA_LEN	"216"
Amode 64 Control Services CSRC4BLD,CSRC4EXP,CSRC4CON,CSRC4ACT,CSRC4DIS,CSRC4DAC Amode 64 Get/Free Services CSRC4GET,CSRC4RGT,CSRC4FRE,CSRC4RFR Amode 64 Other get/free services CSRC4GT1,CSRC4RG1,CSRC4FR1,CSRC4RF1,CSRC4GT2/CSRC4FR2 Amode 64 Query Services CSRC4QPL,CSRC4QEX,CSRC4QCL End of Amode 64 Bit Mapped Cell Pool Services Declares					

Chapter 124. CSRLJASM Information

CSRLJASM Programming Interface Information

CSRLJASM is a programming interface.

CSRLJASM Heading Information

Common Name:	Load 16 and Jump Assembler Declares
Macro ID:	CSRLJASM
DSECT Name:	N/A
Owning Component:	Callable Service Requests (SCCSR)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: N/A Key: N/A Residency: N/A
Size:	N/A
Created by:	N/A
Pointed to by:	N/A
Serialization:	None required
Function:	CSRLJASM defines constants for the use of Load 16 and Jump from S/390 assembly language.

CSRLJASM mapping

Table 521. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'0'	0	CSRL16J_OK	"0"
0	(0)	X'4'	0	CSRL16J_BAD_VERSION	"4"
0	(0)	X'8'	0	CSRL16J_BAD_AMODE	"8"
0	(0)	X'C'	0	CSRL16J_BAD_RESERVED	"12"
0	(0)	X'10'	0	CSRL16J_BAD_LENGTH	"16"
0	(0)	X'18'	0	CSRL16J_BAD_PSW	"24"
0	(0)	X'0'	0	CSRLJ1_OK	"0"
0	(0)	X'4'	0	CSRLJ1_BAD_VERSION	"4"
0	(0)	X'8'	0	CSRLJ1_BAD_AMODE	"8"
0	(0)	X'C'	0	CSRLJ1_BAD_RESERVED	"12"
0	(0)	X'10'	0	CSRLJ1_BAD_LENGTH	"16"
0	(0)	X'18'	0	CSRLJ1_BAD_PSW	"24"
0	(0)	X'1C'	0	CSRLJ1_NOT_ESAME	"28"
0	(0)	X'1C'	0	CSRLJ1_NOT_ZARCHITECTURE	"28"

End of Load 16 and Jump

Table 522. Cross Reference for CSRLJASM

Name	Offset	Hex Tag
CSRLJ1_BAD_AMODE	0	8
CSRLJ1_BAD_LENGTH	0	10

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Table 522. Cross Reference for CSRLJASM (continued)

Name	Offset	Hex Tag
CSRLJ1_BAD_PSW	0	18
CSRLJ1_BAD_RESERVED	0	C
CSRLJ1_BAD_VERSION	0	4
CSRLJ1_NOT_ESAME	0	1C
CSRLJ1_NOT_ZARCHITECTURE	0	1C
CSRLJ1_OK	0	0
CSRL16J_BAD_AMODE	0	8
CSRL16J_BAD_LENGTH	0	10
CSRL16J_BAD_PSW	0	18
CSRL16J_BAD_RESERVED	0	C
CSRL16J_BAD_VERSION	0	4
CSRL16J_OK	0	0

Chapter 125. CSRSIIDF Information

CSRSIIDF Programming Interface Information

CSRSIIDF is a programming interface.

CSRSIIDF Heading Information

Common Name:	CSRSI IDF (return codes and output area maps)
Macro ID:	CSRSIIDF
DSECT Name:	SI00 SIV1 SIV1V2 SIV1V2V3 SIV1V3 SIV2 SIV2V3 SIV3 SI11V1 SI22V1 SI22V1ALT SI22V2 SI22V3 SI22V3DB
Owning Component:	CSR (SCCSR)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: Caller-supplied Key: Caller-supplied Residency: Caller-supplied
Size:	Variable SI00 -- X'0040' bytes SIV1 -- X'2040' bytes SIV1V2 -- X'3040' bytes SIV1V2V3 -- X'4040' bytes SIV1V3 -- X'3040' bytes SIV2 -- X'1040' bytes SIV2V3 -- X'2040' bytes SIV3 -- X'1040' bytes SI11V1 -- X'1000' bytes SI22V1 -- X'1000' bytes SI22V1ALT -- X'0FD8' bytes SI22V2 -- X'1000' bytes SI22V3 -- X'1000' bytes SI22V3DB -- X'0040' bytes
Created by:	Caller and passed as parameter on InfoArea parameter on call to CSRSI
Pointed to by:	CSRSI parameter list
Serialization:	None required

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CSRSIIDF Heading Information

Function: Provides return code equates for the CSRSI service.
Maps the InfoArea data returned by the CSRSI service.
The data returned depends upon the request.
SIV1 DSECT maps the data returned when only V1CPC_MACHINE data is requested.
SIV1V2 DSECT maps the data returned when only V1CPC_MACHINE data and V2CPC_LPAR data are requested.
SIV1V2V3 DSECT maps the data returned when V1CPC_MACHINE data, V2CPC_LPAR data, and V3CPC_VM data are requested.
SIV1V3 DSECT maps the data returned when only V1CPC_MACHINE data and V3CPC_VM data are requested.
SIV2 DSECT maps the data returned when only V2CPC_LPAR data is requested.
SIV2V3 DSECT maps the data returned when only V2CPC_LPAR data and V3CPC_VM data are requested.
SIV3 DSECT maps the data returned when only V3CPC_VM data is requested.
SI00 DSECT maps "starter" information (including STIDP)
SI11V1 DSECT maps the general configuration information for a machine
SI22V1 DSECT maps multiple CPU information for a machine.
SI22V1ALT DSECT maps the alternate information according to field SI22V1Format
SI22V2 DSECT maps multiple CPU information for an LPAR.
SI22V3 DSECT maps multiple CPU information when running under VM.
The SI00ValidityFlags fields indicates whether the data returned for each requested area (other than SI00) is valid. There is no bit for the SI00 area itself since that area is always valid.
The infoarea length must match the length of the DSECT that maps the requested data.
Much of the information corresponds to data returned by the STSI instruction.
Additional information about the fields may be found in the STSI instruction writeup within the z/Architecture Principles of Operation. DSECT SIyzVx corresponds to STSI SYSIB x.y.z (for example, DSECT SI22V1 corresponds to SYSIB 1.2.2) within the z/Architecture Principles of Operation.

CSRSIIDF mapping

Table 523. Structure SI00

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SI00	
0	(0)	BITSTRING	1	SI00CPCVARIETY	SI00CPCVariety_V1CPC_Machine, SI00CPCVariety_V2CPC_LPAR, or SI00CPCVariety_V3CPC_VM
1	(1)	BITSTRING	1	SI00VALIDITYFLAGS	Validity flags
Bit definitions:					
	1...			SI00VALIDSI11V1	"X'80'" SI11V1 was requested and the information returned is valid
	.1..			SI00VALIDSI22V1	"X'40'" SI22V1 was requested and the information returned is valid

Table 523. Structure SI00 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		SI00VALIDSI22V2	"X'20'" SI22V2 was requested and the information returned is valid
		...1		SI00VALIDSI22V3	"X'10'" SI22V3 was requested and the information returned is valid
2	(2)	CHARACTER	2		Reserved
4	(4)	CHARACTER	12	SI00PCCACPID	PCCACPID value (CPU ID) for this CPU
16	(10)	CHARACTER	2	SI00PCCACPUA	PCCACPUA value for this CPU
18	(12)	CHARACTER	2	SI00PCCACAFM	PCCACAFM value for this CPU. This has information only about CPUs 0-15
20	(14)	CHARACTER	4		Reserved
24	(18)	CHARACTER	8	SI00LASTUPDATETIMESTAMP	STCK timestamp when system last re-issued STSI to retrieve the most current information. A capacity upgrade on demand event is one event that results in this update. The field is 0's if the information has not been retrieved since IPL.
32	(20)	CHARACTER	8	SI00PCCA_PARTIALCPUMASK	PCCA_PartialCpuMask value for this CPU.
32	(20)	CHARACTER	8	SI00PCCA_CPU_ADDRESS_MASK	PCCA_CPU_ADDRESS_MASK value for this CPU.
40	(28)	SIGNED	2	SI00PCCA_PARTIALCPUMASKOFFSET	PCCA_PartialCpuMaskOffset value for this CPU
40	(28)	SIGNED	2	SI00PCCA_CPU_ADDRESS_MASK_OFFSET	PCCA_CPU_ADDRESS_MASK_OFFSET value for this CPU
42	(2A)	CHARACTER	14		Reserved
56	(38)	CHARACTER	8	SI00NONINTERFACE	Not a programming interface
SI00 Constants					
56	(38)	X'1'	0	SI00CPCVARIETY_V1CPC_MACHINE	"1" Value for a V1 CPC (not LPAR, not VM)
56	(38)	X'2'	0	SI00CPCVARIETY_V2CPC_LPAR	"2" Value for a V2 CPC (LPAR)
56	(38)	X'3'	0	SI00CPCVARIETY_V3CPC_VM	"3" Value for a V3 CPC (VM)
Constants for Parameters and Return Codes					
Store System Information Constants					
56	(38)	X'1'	0	CSRSI_REQUEST_V1CPC_MACHINE	"1" Requests information about a V1 CPC (not LPAR, not VM)
56	(38)	X'2'	0	CSRSI_REQUEST_V2CPC_LPAR	"2" Requests information about a V2 CPC (LPAR)
56	(38)	X'4'	0	CSRSI_REQUEST_V3CPC_VM	"4" Requests information about a V3 CPC (VM)
Store System Information Return Codes					
Note: 0C4 abend if bad address provided in parmlist or user data					

Table 523. Structure SI00 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	X'0'	0	CSRSI_SUCCESS	"0" CSRSI service completed successfully
56	(38)	X'4'	0	CSRSI_STSINOTAVAILABLE	"4" STSI instruction is not available on this system. Only the SI00PCCACPID, SI00PCCACPUA, SI00PCCACAFM fields are valid.
56	(38)	X'8'	0	CSRSI_SERVICENOTAVAILABLE	"8" CSRSI service is not available on this system.
56	(38)	X'C'	0	CSRSI_BADREQUEST	"12" The request parameter did not specify a word with a value formed from adding any combination of CSRSI_Request_V1CPC_Machine, CSRSI_Request_V2CPC_LPAR, and CSRSI_Request_V3CPC_VM.
56	(38)	X'10'	0	CSRSI_BADINFOAREALEN	"16" The value of the InfoAreaLen parameter does not match the length needed to accomodate the requested data.
56	(38)	X'14'	0	CSRSI_BADLOCK	"20" Service was called holding a system lock other than CPU, LOCAL/CML, CMS
56	(38)	X'40'	0	SI00_LEN	"*-SI00"

Table 524. Structure SIV1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SIV1	
0	(0)	CHARACTER	64	SIV1SI00	Area mapped by dsect SI00
64	(40)	CHARACTER	4096	SIV1SI11V1	Area mapped by dsect SI11V1
4160	(1040)	CHARACTER	4096	SIV1SI22V1	Area mapped by dsect SI22V1
4160	(1040)	X'2040'	0	SIV1_LEN	"*-SIV1"

Table 525. Structure SIV1V2

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SIV1V2	
0	(0)	CHARACTER	64	SIV1V2SI00	Area mapped by dsect SI00
64	(40)	CHARACTER	4096	SIV1V2SI11V1	Area mapped by dsect SI11V1
4160	(1040)	CHARACTER	4096	SIV1V2SI22V1	Area mapped by dsect SI22V1
8256	(2040)	CHARACTER	4096	SIV1V2SI22V2	Area mapped by dsect SI22V2
8256	(2040)	X'3040'	0	SIV1V2_LEN	"*-SIV1V2"

Table 526. Structure SIV1V2V3

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SIV1V2V3	
0	(0)	CHARACTER	64	SIV1V2V3SI00	Area mapped by dsect SI00
64	(40)	CHARACTER	4096	SIV1V2V3SI11V1	Area mapped by dsect SI11V1
4160	(1040)	CHARACTER	4096	SIV1V2V3SI22V1	Area mapped by dsect SI22V1

Table 526. Structure SIV1V2V3 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8256	(2040)	CHARACTER	4096	SIV1V2V3SI22V2	Area mapped by dsect SI22V2
12352	(3040)	CHARACTER	4096	SIV1V2V3SI22V3	Area mapped by dsect SI22V3
12352	(3040)	X'4040'	0	SIV1V2V3_LEN	"*-SIV1V2V3"

Table 527. Structure SIV1V3

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SIV1V3	
0	(0)	CHARACTER	64	SIV1V3SI00	Area mapped by dsect SI00
64	(40)	CHARACTER	4096	SIV1V3SI11V1	Area mapped by dsect SI11V1
4160	(1040)	CHARACTER	4096	SIV1V3SI22V1	Area mapped by dsect SI22V1
8256	(2040)	CHARACTER	4096	SIV1V3SI22V3	Area mapped by dsect SI22V3
8256	(2040)	X'3040'	0	SIV1V3_LEN	"*-SIV1V3"

Table 528. Structure SIV2

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SIV2	
0	(0)	CHARACTER	64	SIV2SI00	Area mapped by dsect SI00
64	(40)	CHARACTER	4096	SIV2SI22V2	Area mapped by dsect SI22V2
64	(40)	X'1040'	0	SIV2_LEN	"*-SIV2"

Table 529. Structure SIV2V3

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SIV2V3	
0	(0)	CHARACTER	64	SIV2V3SI00	Area mapped by dsect SI00
64	(40)	CHARACTER	4096	SIV2V3SI22V2	Area mapped by dsect SI22V2
4160	(1040)	CHARACTER	4096	SIV2V3SI22V3	Area mapped by dsect SI22V3
4160	(1040)	X'2040'	0	SIV2V3_LEN	"*-SIV2V3"

Table 530. Structure SIV3

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SIV3	
0	(0)	CHARACTER	64	SIV3SI00	Area mapped by dsect SI00
64	(40)	CHARACTER	4096	SIV3SI22V3	Area mapped by dsect SI22V3
64	(40)	X'1040'	0	SIV3_LEN	"*-SIV3"

Table 531. Structure SI11V1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SI11V1	
0	(0)	BITSTRING	1	SI11V1FLAGS	Flag(s)
Bit definitions:					

Table 531. Structure SI11V1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		SI11V1_TYPENPCTGV	"X'80'" When 1, the type-percentage bytes, located in words 40-41, are valid. When 0, the bytes are stored as zeroes but have no meaning
		.... ..1.		SI11V1_MTINSTALLED	"X'02'"
		1		SI11V1_TRANSIENT	"X'01'" When 1, indicates that the condition represented by SI11V1CCR and SI11V1CAI fields is relatively transient
1	(1)	CHARACTER	1		Reserved
2	(2)	BITSTRING	1	SI11V1CCR	Capacity-Change Reason. When SI11V1CAI is nonzero, SI11V1CCR indicates the reason which is associated with the present values contained in SI11V1. When SI11V1CAI is zero, SI11V1CCR is undefined and stored as zero.
3	(3)	BITSTRING	1	SI11V1CAI	Capacity-Adjustment Indication. When zero, the indication is not reported. When in the range 1-99, some amount of reduction is indicated. When 100, the machine is operating at its normal capacity.
4	(4)	CHARACTER	28		Reserved
32	(20)	CHARACTER	16	SI11V1CPCMANUFACTURER	The 16-character (0-9 or uppercase A-Z) EBCDIC name of the manufacturer of the configuration. The name is left-justified with trailing blank characters if necessary.
48	(30)	CHARACTER	4	SI11V1CPCTYPE	The 4-character (0-9) EBCDIC type identifier of the configuration.
52	(34)	CHARACTER	12		Reserved
64	(40)	CHARACTER	16	SI11V1CPCMODEL	The 16-character (0-9 or uppercase A-Z) EBCDIC model identifier of the configuration. The identifier is left-justified with trailing blank characters if necessary. Valid only if the first word of SI11V1CPCModel1 is zero
64	(40)	CHARACTER	16	SI11V1CPCMODELCAPIDENT	The 16-character (0-9 or uppercase A-Z) EBCDIC model capacity identifier of the configuration. The identifier is left-justified with trailing blank characters if necessary.
80	(50)	CHARACTER	16	SI11V1CPCSEQUENCECODE	The 16-character (0-9 or uppercase A-Z) EBCDIC sequence code of the configuration. The sequence code is right-justified with leading EBCDIC zeroes if necessary.

Table 531. Structure SI11V1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
96	(60)	CHARACTER	4	SI11V1CPCPLANTOFMANUFACTURE	The 4-character (0-9 or uppercase A-Z) EBCDIC plant code that identifies the plant of manufacture for the configuration. The plant code is left-justified with trailing blank characters if necessary.
100	(64)	CHARACTER	16	SI11V1CPCMODEL1	The 16-character (0-9 or uppercase A-Z) EBCDIC model identifier of the configuration. The identifier is left-justified with trailing blank characters if necessary. Valid only when first word is not zero. Otherwise, field SI111VCPCModelCapIdent represents both the model-capacity identifier and the model.
116	(74)	CHARACTER	16	SI11V1CPCMODELPERMCAPIDENT	When non-zero, the 16-character (0-9 or uppercase A-Z) EBCDIC model permanent capacity identifier of the configuration. The identifier is left-justified with trailing blank characters if necessary.
132	(84)	CHARACTER	16	SI11V1CPCMODELTEMPCAPIDENT	When non-zero, the 16-character (0-9 or uppercase A-Z) EBCDIC model temporary capacity identifier of the configuration. The identifier is left-justified with trailing blank characters if necessary.
148	(94)	SIGNED	4	SI11V1CPCMODELCAPRATING	When non-zero, an unsigned integer whose value is associated with the model capacity as identified by field SI11V1CPCModelCapIdent.
152	(98)	SIGNED	4	SI11V1CPCMODELPERMCAPRATING	When non-zero, an unsigned integer whose value is associated with the model permanent capacity as identified by field SI11V1CPCModelPermCapIdent.
156	(9C)	SIGNED	4	SI11V1CPCMODELTEMPCAPRATING	When non-zero, an unsigned integer whose value is associated with the model temporary capacity as identified by field SI11V1CPCModelTempCapIdent.
160	(A0)	CHARACTER	8	SI11V1DIAG	Name no longer used

Table 531. Structure SI11V1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
160	(A0)	CHARACTER	8	SI11V1TYPENPCTG	Type N Pctg: Each of the byte fields contains an 8-bit unsigned binary integer whose value is in the range 0-100 and represents a percentage. When non-zero, the percentage may be used to affect the use and allowed utilization of the secondary-CPUs whose CPU type corresponds to the particular byte. When a byte in this range contains a value of zero, use rules of the corresponding secondary-CPU type are not overridden.
160	(A0)	BITSTRING	1	SI11V1_TYPE1PCTG	
161	(A1)	BITSTRING	1	SI11V1_TYPE2PCTG	
162	(A2)	BITSTRING	1	SI11V1_TYPE3PCTG	
163	(A3)	BITSTRING	1	SI11V1_TYPE4PCTG	
164	(A4)	BITSTRING	1	SI11V1_TYPE5PCTG	
165	(A5)	CHARACTER	3		Reserved
168	(A8)	SIGNED	4	SI11V1_NOMMCR	Nominal Model-Capacity Rating. When non-zero, an unsigned integer whose value is associated with the nominal model capacity as identified by SI11V1CPCModelCapIdent
172	(AC)	SIGNED	4	SI11V1_NOMMPCR	Nominal Model-Permanent-Capacity. Rating. When non-zero, an unsigned integer whose value is associated with the nominal model-permanent capacity as identified by SI11V1CPCModelPermCapIdent
176	(B0)	SIGNED	4	SI11V1_NOMMTCR	Nominal Model-Temporary-Capacity Rating. When non-zero, an unsigned integer whose value is associated with the nominal model-temporary capacity as identified by SI11V1CPCModelTempCapIdent
180	(B4)	CHARACTER	3916		Reserved
180	(B4)	X'1000'	0	SI11V1_LEN	"*-SI11V1"

Table 532. Structure SI22V1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SI22V1	
0	(0)	BITSTRING	1	SI22V1FORMAT	When the value is 1, the ACCOffset field is valid
1	(1)	CHARACTER	1		Reserved

Table 532. Structure SI22V1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2	(2)	SIGNED	2	SI22V1ACCOFFSET	Alternate Cpu Capability Offset. A 16-bit unsigned binary integer that specifies the offset in bytes of the alternate-CPU-capability area (which is physically within the SI22V1 area, and is mapped by DSECT SI22V1ALT)
4	(4)	BITSTRING	1	SI22V1_MT_INSTALLED_INFO	Data about MT
Bit definitions:					
		1...		SI22V1_MT_INSTALLED	"X'80'" MT facility installed
		...1 1111		SI22V1_MT_MAXTHREADID	"X'1F'" The maximum thread ID for a core.
5	(5)	BITSTRING	1	SI22V1_MT_GENERAL_INFO	Data about MT. Meaningful only when SI22V1_MT_Installed
Bit definitions:					
		..1.		SI22V1_DIAG005	"X'20'" Diagnostic data. This field is for IBM use only
		...1 1111		SI22V1_MT_CPMAXTHREADID	"X'1F'" The maximum configurable thread ID for a core comprising general CPUs
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	8		Reserved
16	(10)	SIGNED	4	SI22V1PRIMARYCPUSPEED	Primary CPU Speed (cycles per microsecond)
20	(14)	SIGNED	4	SI22V1SECONDARYCPUSPEED	Secondary CPU Speed (cycles per microsecond)
24	(18)	SIGNED	4	SI22V1_NOMCC	Nominal CPU Capability. When not 0, this word is formatted and encoded the same as the CPU Capability word. When SI11V1CAI is zero, this word is 0. The nonzero value equals the value in SI22V1CpuCapability when SI11V1CAI is 100. When SI11V1CAI is nonzero and less than 100, this field indicates a CPU speed greater than the CPU speed in SI22V1CpuCapability
28	(1C)	CHARACTER	4	SI22V1SECONDARYCPUCAPABILITY	

Table 532. Structure SI22V1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					If bits 0-8 are 0, this is an unsigned 32-bit binary integer. Otherwise this is a 32-bit binary floating point short format number. When not zero, this field specifies a secondary capability that may be applied to certain types of CPUs in the configuration. Regardless of encoding, a lower number indicates a proportionally higher CPU capability. There is no formal description of the algorithm used to generate this integer, except that it is the same algorithm used to generate the CPU capability. The integer is used as an indication of the capability of a CPU relative to the capability of other CPU models, and also relative to the capability of other CPU types within a model. When the value is zero, all CPUs of any CPU type in the configuration have the same capability, as specified by the CPU capability.
32	(20)	CHARACTER	4	SI22V1CPUCAPABILITY	If bits 0-8 are 0, this is an unsigned 32-bit binary integer. Otherwise this is a 32-bit binary floating point short format number. Regardless of encoding, a lower number indicates a proportionally higher CPU capability. This field specifies the capability of one of the CPUs contained in the configuration. There is no formal description of the algorithm used to generate this integer. It is used as an indication of the capability of the CPU relative to the capability of other CPU models.
36	(24)	BITSTRING	2	SI22V1TOTALCPUCOUNT	A 16-bit unsigned binary integer that specifies the total number of CPUs contained in the physical machine configuration. This number includes all CPUs in the configured state, the standby state, or the reserved state.

Table 532. Structure SI22V1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
38	(26)	BITSTRING	2	SI22V1CONFIGUREDCPUCOUNT	A 16-bit unsigned binary integer that specifies the total number of CPUs that are in the configured state in the physical machine configuration. A CPU is in the configured state when it is in the configuration and available to be used to execute programs.
40	(28)	BITSTRING	2	SI22V1STANDBYCPUCOUNT	A 16-bit unsigned binary integer that specifies the total number of CPUs that are in the standby state in the physical machine configuration. A CPU is in the standby state when it is in the configuration, is not available to be used to execute programs, but can be used to execute programs by issuing instructions to place it in the configured state. It may be possible to place a reserved CPU in the standby or configured state by means of manual actions.
42	(2A)	BITSTRING	2	SI22V1RESERVEDCPUCOUNT	A 16-bit unsigned binary integer that specifies the total number of CPUs that are in the reserved state in the physical machine configuration. A CPU is in the reserved state when it is in the configuration, is not available to be used to execute programs, and cannot be made available by issuing instructions to place it in the configured state. It may be possible to place a reserved CPU in the standby or configured state by means of manual actions.

Table 532. Structure SI22V1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
44	(2C)	CHARACTER	4052	SI22V1MPCPUCAPABILITYAFS	A series of contiguous 2-byte fields, each containing a 16-bit unsigned binary integer which is an adjustment factor (fraction) for the value contained in the CPU-capability field. Such a fraction is developed by using the value (V) of the first two-byte field according to one of the following methods: - If V is in the range 0 < V <= 100, a denominator of 100 is indicated which produces a fraction of V/100. - If V is in the range 100 < V <= 255, a denominator of 255 is indicated which produces a fraction of V/255. - If V is in the range 255 < V <= 65,535, a denominator of 65,535 is indicated which produces a fraction of V/65,535. Thus, the fraction represented by each two-byte field is then developed by dividing the contents of a twobyte field by the indicated denominator. The number of adjustment-factor fields is one less than the number of CPUs specified in the total-CPU-count field. The adjustment-factor fields correspond to configurations with increasing numbers of CPUs in the configured state. The first adjustment-factor field corresponds to a configuration with two CPUs. Each successive adjustment-factor field corresponds to a configuration with a number of CPUs that is one more than that for the preceding field.
44	(2C)	CHARACTER	2	SI22V1MPCPUCAPABILITYAF	Each individual adjustment factor.
4096	(1000)	X'1000'	0	SI22V1_LEN	"*-SI22V1"

Table 533. Structure SI22V1ALT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SI22V1ALT	

Table 533. Structure SI22V1ALT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	SIGNED	4	SI22V1ALTCPUCAPABILITY	If bits 0-8 are 0, this is an unsigned 32-bit binary integer. Otherwise this is a 32-bit binary floating point short format number. This field specifies the announced capability of one of the CPUs in the configuration. There is no formal description of the algorithm used to generate this integer. The integer is used as an indication of the announced capability of the CPU relative to the announced capability of other CPU models. The alternate-capability value applies to each of the CPUs in the configuration. That is, all CPUs in the configuraiton have the same alternate capability.
4	(4)	CHARACTER	4052	SI22V1ALTMPCPUCAPABILITYAFS	

Table 533. Structure SI22V1ALT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					A series of contiguous 2-byte fields, each containing a 16-bit unsigned binary integer which is an adjustment factor (fraction) for the value contained in the altternate-CPU- capability field. Such a fraction is developed by using the value (V) of the first two-byte field according to one of the following methods: - If V is in the range 0 < V <= 100, a denominator of 100 is indicated which produces a fraction of V/100. - If V is in the range 100 < V <= 255, a denominator of 255 is indicated which produces a fraction of V/255. - If V is in the range 255 < V <= 65,535, a denominator of 65,535 is indicated which produces a fraction of V/65,535. Thus, the fraction represented by each two-byte field is then developed by dividing the contents of a twobyte field by the indicated denominator. The number of alternate-adjustment-factor fields is one less than the number of CPUs specified in the total-CPU-count field. The alternate- adjustment-factor fields correspond to configurations with increasing numbers of CPUs in the configured state. The first alternate-adjustment-factor field corresponds to a configuration with two CPUs in the configured state. Each successive alternate-adjustment-factor field corresponds to a configuration with a number of CPUs in the configurd state that is more than that for the preceding field.
4	(4)	CHARACTER	2	SI22V1ALTMPCPUCAPABILITYAF	Each individual adjustment factor.
4056	(FD8)	X'FD8'	0	SI22V1ALT_LEN	"*-SI22V1ALT"

Table 534. Structure SI22V2

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SI22V2	

Table 534. Structure SI22V2 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	CHARACTER	32		Reserved
32	(20)	BITSTRING	2	SI22V2LPARNUMBER	A 16-bit unsigned binary integer which is the number of the level-2 configuration. This number distinguishes the configuration from all other level-2 configurations provided by the same logical-partition hypervisor
32	(20)	BITSTRING	2	SI22V2CPCNUMBER	
34	(22)	CHARACTER	1		Reserved
35	(23)	CHARACTER	1	SI22V2LCPUCHARACTERISTICS	The characteristics of the logical CPUs that are provided for the level-2 configuration
Bit definitions:					
		1...		SI22V2LCPUDEDICATED	"X'80'" When one, indicates that one or more of the logical CPUs for this level-2 configuration are provided using level-1 CPUs that are dedicated to this level-2 configuration and are not used to provide logical CPUs for any other level-2 configuration. The number of logical CPUs that are provided using dedicated level-1 CPUs is specified by the dedicated-LCPU-count value. When zero, bit 0 indicates that none of the logical CPUs for this level-2 configuration are provided using level-1 CPUs that are dedicated to this level-2 configuration.
		.1..		SI22V2LCPUSHARED	"X'40'" When one, indicates that one or more of the logical CPUs for this level-2 configuration are provided using level-1 CPUs that can be used to provide logical CPUs for other level-2 configurations. The number of logical CPUs that are provided using shared V1 CPUs is specified by the shared-LCPU-count value. When zero, it indicates that none of the logical CPUs for this level-2 configuration are provided using shared level-1 CPUs.

Table 534. Structure SI22V2 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		SI22V2LCPUULIMIT	"X'20'" Utilization limit: When one, indicates that the amount of use of the level-1 CPUs that are used to provide the logical CPUs for this level-2 configuration is limited. When zero, it indicates that the amount of use of the level-1 CPUs that are used to provide the logical CPUs for this level-2 configuration is unlimited.
36	(24)	BITSTRING	2	SI22V2TOTALLCPUCOUNT	A 16-bit unsigned binary integer that specifies the total number of logical CPUs that are provided for this level-2 configuration. This number includes all of the logical CPUs that are in the configured state, the standby state, and the reserved state.
38	(26)	BITSTRING	2	SI22V2CONFIGUREDLCPUCOUNT	A 16-bit unsigned binary integer that specifies the total number of logical CPUs for this level-2 configuration that are in the configured state. A logical CPU is in the configured state when it is in the level-2 configuration definition and is available to be used to execute programs.
40	(28)	BITSTRING	2	SI22V2STANDBYLCPUCOUNT	A 16-bit unsigned binary integer that specifies the number of logical CPUs for this level-2 configuration that are in the standby state. A logical CPU is in the standby state when it is in the level-2 configuration, is not available to be used to execute programs, and can be made available by issuing instructions to place it in the the configured state.

Table 534. Structure SI22V2 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
42	(2A)	BITSTRING	2	SI22V2RESERVEDLCPUCOUNT	A 16-bit unsigned binary integer that specifies the total number of CPUs for this level-2 configuration that are in the reserved state. A logical CPU is in the reserved state when it is in the level-2 configuration, is not available to be used to execute programs, and cannot be made available by issuing instructions to place it in the configured state. It may be possible to place the reserved CPU in the standby or configured state through manually initiated actions
44	(2C)	CHARACTER	8	SI22V2LPARNAME	The 8-character EBCDIC name of this level-2 configuration. The name is left-justified with trailing blank characters if necessary.
44	(2C)	CHARACTER	8	SI22V2CPCNAME	
52	(34)	CHARACTER	4	SI22V2LPARCAPABILITYAF	Capability Adjustment Factor (CAF). An 32-bit unsigned binary integer with a value of 1000 or less. The adjustment factor specifies the amount of the underlying level-1-configuration capability that is allowed to be used for this level-2 configuration by the LPAR hypervisor. The fraction of level-1-configuration capability is determined by dividing the CAF value by 1000.
52	(34)	CHARACTER	4	SI22V2CPCCAPABILITYAF	
56	(38)	CHARACTER	8	SI22V2LPARORIGIN	A 64-bit unsigned binary integer, called a logical partition origin, which represents the relocation-zone origin of the logical partition
64	(40)	BITSTRING	1	SI22V2_MT_INSTALLED_INFO	
Bit definitions:					
		1...		SI22V2_MT_INSTALLED	"X'80'" MT facility installed
		...1 1111		SI22V2_MT_MAXTHREADID	"X'1F'" The maximum thread ID for a core.
65	(41)	BITSTRING	1	SI22V2_MT_GENERAL_INFO	
Bit definitions:					
		..1.		SI22V2_DIAG040	"X'20'" Diagnostic data. This field is for IBM use only
		...1 1111		SI22V2_MT_CPMAXTHREADID	"X'1F'" The maximum configurable thread ID for a core comprising general CPUs
66	(42)	BITSTRING	1	SI22V2_PSMTID_INFO	

Table 534. Structure SI22V2 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Bit definitions:					
		...1 1111		SI22V2_PSMTID	"X'1F'"
67	(43)	CHARACTER	5		Reserved
72	(48)	BITSTRING	2	SI22V2DEDICATEDLCPUCOUNT	A 16-bit unsigned binary integer that specifies the number of configured-state logical CPUs for this level-2 configuration that are provided using dedicated level-1 CPUs. (See the description of bit SI22V2LCPUDedicated.)
74	(4A)	BITSTRING	2	SI22V2SHAREDLCPUCOUNT	A 16-bit unsigned binary integer that specifies the number of configured-state logical CPUs for this level-2 configuration that are provided using shared level-1 CPUs. (See the description of bit SI22V2LCPUShared.)
76	(4C)	CHARACTER	4020		Reserved
76	(4C)	X'1000'	0	SI22V2_LEN	"*-SI22V2"

Table 535. Structure SI22V3

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SI22V3	
0	(0)	CHARACTER	28		Reserved
28	(1C)	CHARACTER	3		Reserved
31	(1F)	BITSTRING	1	SI22V3DBCOUNTFIELD	
Bit definitions:					
		 1111		SI22V3DBCOUNT	"X'0F'" Description Block Count. A 4-bit unsigned binary integer that indicates the number (up to 8) of virtual machine description blocks that are stored in the SI22V3DBs field.
32	(20)	CHARACTER	512	SI22V3DBS	From 1 to 8 64-byte virtual machine description blocks, depending on the number of nested level-3 configurations, if any, and their processing characteristics.
32	(20)	CHARACTER	64	SI22V3DBE	An individual entry, mapped by dsect SI22V3DB
544	(220)	CHARACTER	3552		Reserved
544	(220)	X'1000'	0	SI22V3_LEN	"*-SI22V3"

Table 536. Structure SI22V3DB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SI22V3DB	V3 Description Block. When a level-3 configuration is provided by a virtual-machine control program and the control program is being executed by a level-3 configuration provided by another virtual-machine control program, the level-3 configurations are said to be "nested." Level-3 configurations can be nested in this way for several levels. The collection of nested level-3 configurations that is in the path between a program being executed by a level-3 configuration and the basic machine is called a "level-3 configuration stack." The level-3 configurations provided by a virtual-machine control program being executed by either a level-2 configuration or a level-1 configuration is the lowest-numbered (0) level-3 configuration in the stack. The level-3 configuration that is executing the program containing this instruction is the highest numbered (N) level-3 configuration in the stack. If more than one virtual-machine description block is stored, the blocks are stored according to the following rules: 1.The collection of level-3 configurations described is a contiguous subset of the total collection of level-3 configurations in the level-3 configuration stack. The subset always includes the highest numbered level-3 configuration in the stack. One or more level-3 configuraitons at the bottom of the stack may not be described because STSI is not implemented by the highest of those configurations or the limit of eight description blocks would be exceeded. 2.The highest-numbered level-3 configuration in the level-3 configuration stack is always

Table 536. Structure SI22V3DB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					described by the first description block. The lowest-numbered level-3 configuration in the stack, of those that are included in the subset that is described, is described by the last description block provided.
0	(0)	CHARACTER	4		Reserved
4	(4)	BITSTRING	2	SI22V3DBTOTALLCPUCOUNT	A 16-bit unsigned binary integer that specifies the number of logical CPUs for this level-3 configuration. This number includes all of the logical CPUs that are in the configured state, the standby state, and the reserved state.
6	(6)	BITSTRING	2	SI22V3DBCONFIGUREDLCPUCOUNT	A 16-bit unsigned binary integer that specifies the number of logical CPUs for this level-3 configuration that are in the configured state. A logical CPU is in the configured state when it is in the level-3 configuration and is available to be used to execute programs.
8	(8)	BITSTRING	2	SI22V3DBSTANDBYLCPUCOUNT	A 16-bit unsigned binary integer that specifies the number of logical CPUs for this level-3 configuration that are in the standby state. A logical CPU is in the standby state when it is in the level-3 configuration, is not available to be used to execute programs, and can be made available by issuing instructions to place it in the configured state.
10	(A)	BITSTRING	2	SI22V3DBRESERVEDLCPUCOUNT	A 16-bit unsigned binary integer that specifies the number of logical CPUs for this level-3 configuration that are in the reserved state. A logical CPU is in the reserved state when it is in the level-3 configuration, is not available to be used to execute programs, and cannot be made available by issuing instructions to place it in the configured state. It may be possible to place the CPU in the standby or configured state through manual actions

Table 536. Structure SI22V3DB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	CHARACTER	8	SI22V3DBVMNAME	The 8-character EBCDIC name of this level-3 configuration. The name is left-justified with trailing blank characters if necessary.
12	(C)	CHARACTER	8	SI22V3DBCPCNAME	
20	(14)	CHARACTER	4	SI22V3DBVMCAF	A 4-byte unsigned binary integer that specifies an adjustment factor. The adjustment factor specifies the amount of the underlying level-1-, level-2-, or level-3-configuration cpability that is allowed to be used for this level-3 configuration by the virtual-machine control program. The fraction of the underlying capability is determined by dividing the CAF value by 1000.
20	(14)	CHARACTER	4	SI22V3DBCPCCAF	
24	(18)	CHARACTER	16	SI22V3DBCPIDENTIFIER	The 16-character EBCDIC identifier of the virtual-machine control program that provides this level-3 configuration. This identifier may include qualifiers such as version number and release level. The identifier is left-justified with trailing blank characters if necessary.
24	(18)	CHARACTER	16	SI22V3DBVMHPIDENTIFIER	
40	(28)	CHARACTER	24		Reserved
40	(28)	X'40'	0	SI22V3DB_LEN	"*-SI22V3DB"

Table 537. Cross Reference for CSRSIIDF

Name	Offset	Hex Tag
CSRSI_BADINFOAREALEN	38	10
CSRSI_BADLOCK	38	14
CSRSI_BADREQUEST	38	C
CSRSI_REQUEST_V1CPC_MACHINE	38	1
CSRSI_REQUEST_V2CPC_LPAR	38	2
CSRSI_REQUEST_V3CPC_VM	38	4
CSRSI_SERVICENOTAVAILABLE	38	8
CSRSI_STSINOTAVAILABLE	38	4
CSRSI_SUCCESS	38	0
SIV1	0	
SIV1_LEN	1040	2040
SIV1SI00	0	
SIV1SI11V1	40	
SIV1SI22V1	1040	
SIV1V2	0	
SIV1V2_LEN	2040	3040

Table 537. Cross Reference for CSRSIIDF (continued)

Name	Offset	Hex Tag
SIV1V2SI00	0	
SIV1V2SI11V1	40	
SIV1V2SI22V1	1040	
SIV1V2SI22V2	2040	
SIV1V2V3	0	
SIV1V2V3_LEN	3040	4040
SIV1V2V3SI00	0	
SIV1V2V3SI11V1	40	
SIV1V2V3SI22V1	1040	
SIV1V2V3SI22V2	2040	
SIV1V2V3SI22V3	3040	
SIV1V3	0	
SIV1V3_LEN	2040	3040
SIV1V3SI00	0	
SIV1V3SI11V1	40	
SIV1V3SI22V1	1040	
SIV1V3SI22V3	2040	
SIV2	0	
SIV2_LEN	40	1040
SIV2SI00	0	
SIV2SI22V2	40	
SIV2V3	0	
SIV2V3_LEN	1040	2040
SIV2V3SI00	0	
SIV2V3SI22V2	40	
SIV2V3SI22V3	1040	
SIV3	0	
SIV3_LEN	40	1040
SIV3SI00	0	
SIV3SI22V3	40	
SI00	0	
SI00_LEN	38	40
SI00CPCVARIETY	0	
SI00CPCVARIETY_V1CPC_MACHINE	38	1
SI00CPCVARIETY_V2CPC_LPAR	38	2
SI00CPCVARIETY_V3CPC_VM	38	3
SI00LASTUPDATETIMESTAMP	18	
SI00NONINTERFACE	38	
SI00PCCA_CPU_ADDRESS_MASK	20	
SI00PCCA_CPU_ADDRESS_MASK_OFFSET	28	
SI00PCCA_PARTIALCPUMASK	20	
SI00PCCA_PARTIALCPUMASKOFFSET	28	
SI00PCCACAFM	12	
SI00PCCACPID	4	
SI00PCCACPUA	10	
SI00VALIDITYFLAGS	1	
SI00VALIDSI11V1	1	80
SI00VALIDSI22V1	1	40
SI00VALIDSI22V2	1	20

Table 537. Cross Reference for CSRSIIDF (continued)

Name	Offset	Hex Tag
SI00VALIDSI22V3	1	10
SI11V1	0	
SI11V1_LEN	B4	1000
SI11V1_MTINSTALLED	0	2
SI11V1_NOMMCR	A8	
SI11V1_NOMMPCR	AC	
SI11V1_NOMMTCR	B0	
SI11V1_TRANSIENT	0	1
SI11V1_TYPENPCTGV	0	80
SI11V1_TYPE1PCTG	A0	
SI11V1_TYPE2PCTG	A1	
SI11V1_TYPE3PCTG	A2	
SI11V1_TYPE4PCTG	A3	
SI11V1_TYPE5PCTG	A4	
SI11V1CAI	3	
SI11V1CCR	2	
SI11V1CPCMANUFACTURER	20	
SI11V1CPCMODEL	40	
SI11V1CPCMODELCAPIDENT	40	
SI11V1CPCMODELCAPRATING	94	
SI11V1CPCMODELPERMCAPIDENT	74	
SI11V1CPCMODELPERMCAPRATING	98	
SI11V1CPCMODELTEMPCAPIDENT	84	
SI11V1CPCMODELTEMPCAPRATING	9C	
SI11V1CPCMODEL1	64	
SI11V1CPCPLANTOFMANUFACTURE	60	
SI11V1CPCSEQUENCECODE	50	
SI11V1CPCTYPE	30	
SI11V1DIAG	A0	
SI11V1FLAGS	0	
SI11V1TYPENPCTG	A0	
SI22V1	0	
SI22V1_DIAG005	5	20
SI22V1_LEN	1000	1000
SI22V1_MT_CPMAXTHREADID	5	1F
SI22V1_MT_GENERAL_INFO	5	
SI22V1_MT_INSTALLED	4	80
SI22V1_MT_INSTALLED_INFO	4	
SI22V1_MT_MAXTHREADID	4	1F
SI22V1_NOMCC	18	
SI22V1ACCOFFSET	2	
SI22V1ALT	0	
SI22V1ALT_LEN	FD8	FD8
SI22V1ALTCPUCAPABILITY	0	
SI22V1ALTMPCPUCAPABILITYAF	4	
SI22V1ALTMPCPUCAPABILITYAFS	4	
SI22V1CONFIGUREDCPUCOUNT	26	
SI22V1CPUCAPABILITY	20	
SI22V1FORMAT	0	

Table 537. Cross Reference for CSRSIIDF (continued)

Name	Offset	Hex Tag
SI22V1MPCPUCAPABILITYAF	2C	
SI22V1MPCPUCAPABILITYAFS	2C	
SI22V1PRIMARYCPUSPEED	10	
SI22V1RESERVEDCPUCOUNT	2A	
SI22V1SECONDARYCPUCAPABILITY	1C	
SI22V1SECONDARYCPUSPEED	14	
SI22V1STANDBYCPUCOUNT	28	
SI22V1TOTALCPUCOUNT	24	
SI22V2	0	
SI22V2_DIAG040	41	20
SI22V2_LEN	4C	1000
SI22V2_MT_CPMAXTHREADID	41	1F
SI22V2_MT_GENERAL_INFO	41	
SI22V2_MT_INSTALLED	40	80
SI22V2_MT_INSTALLED_INFO	40	
SI22V2_MT_MAXTHREADID	40	1F
SI22V2_PSMTID	42	1F
SI22V2_PSMTID_INFO	42	
SI22V2CONFIGUREDLCPUCOUNT	26	
SI22V2CPCCAPABILITYAF	34	
SI22V2CPCNAME	2C	
SI22V2CPCNUMBER	20	
SI22V2DEDICATEDLCPUCOUNT	48	
SI22V2LCPUCHARACTERISTICS	23	
SI22V2LCPUDEDICATED	23	80
SI22V2LCPUSHARED	23	40
SI22V2LCPUULIMIT	23	20
SI22V2LPARCAPABILITYAF	34	
SI22V2LPARNAME	2C	
SI22V2LPARNUMBER	20	
SI22V2LPARORIGIN	38	
SI22V2RESERVEDLCPUCOUNT	2A	
SI22V2SHAREDLCPUCOUNT	4A	
SI22V2STANDBYLCPUCOUNT	28	
SI22V2TOTALLCPUCOUNT	24	
SI22V3	0	
SI22V3_LEN	220	1000
SI22V3DB	0	
SI22V3DB_LEN	28	40
SI22V3DBCONFIGUREDLCPUCOUNT	6	
SI22V3DBCOUNT	1F	F
SI22V3DBCOUNTFIELD	1F	
SI22V3DBCPCCAF	14	
SI22V3DBCPCNAME	C	
SI22V3DBCPIDENTIFIER	18	
SI22V3DBE	20	
SI22V3DBRESERVEDLCPUCOUNT	A	
SI22V3DBS	20	
SI22V3DBSTANDBYLCPUCOUNT	8	

Table 537. Cross Reference for CSRSIIDF (continued)

Name	Offset	Hex Tag
SI22V3DBTOTALLCPUCOUNT	4	
SI22V3DBVMCAF	14	
SI22V3DBVMHPIDENTIFIER	18	
SI22V3DBVMNAME	C	

Chapter 126. CSRYCMPD Information

CSRYCMPD Programming Interface Information

CSRYCMPD is a programming interface.

CSRYCMPD Heading Information

Common Name:	Compression/Expansion dictionary mappings
Macro ID:	CSRYCMPD
DSECT Name:	CMPSCDICT_CE CMPSCDICT_SD CMPSCDICT_SDE CMPSCDICT_UE CMPSCDICT_PE
Owning Component:	Callable Services (SCCSR)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: Caller-supplied Key: Caller-supplied Residency: Caller-supplied
Size:	CMPSCDICT_CE -- X'0008' bytes CMPSCDICT_SD -- X'0008' bytes CMPSCDICT_SDE -- X'0008' bytes CMPSCDICT_UE -- X'0008' bytes CMPSCDICT_PE -- X'0008' bytes
Created by:	User of CSRCMPSC service. Address passed as a parameter within CMPSC area provided via CBLOCK keyword of CSRCMPSC
Pointed to by:	Not applicable
Serialization:	None required
Function:	Maps the compression and expansion dictionaries. The compression and expansion dictionaries must both begin on page boundaries. When compressing, the expansion dictionary must immediately follow (be contiguous to) the compression dictionary. Each dictionary consists of 512, 1024, 2048, 4096, or 8192 8-byte entries. These are indicated by a value of 1, 2, 3, 4, or 5 in the CMPSC_SYMSIZE field which is part of the parameter information passed to the CSRCMPSC service. The compression dictionary consists of child entries (DSECT CMPSCDICT_CE), sibling descriptors (DSECT CMPSCDICT_SD), sibling descriptor extensions (DSECT CMPSDICT_SDE). Note that the latter are physically resident within the expansion dictionary. The expansion dictionary consists of unpreceded entries (DSECT CMPSCDICT_UE) and preceded entries (DSECT CMPSDICT_PE).

CSRYCMPD mapping

Table 538. Structure CMPSCDICT_CE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CMPSCDICT_CE	, Dictionary format for compression, Child character entry
0	(0)	BITSTRING	1	CMPSCDICT_CE_H1	First byte of header
		111.		CMPSCDICT_CE_CHILDCT	"X'E0'" Child character count

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Table 538. Structure CMPSCDICT_CE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1 1111		CMPSCDICT_CE_EXCHILD	"X'1F'" Examine child bits
1	(1)	BITSTRING	2	CMPSCDICT_CE_H23	Second/third bytes of header
		111.		CMPSCDICT_CE_AECCT	"X'E0'" Additional extension count
		11..		CMPSCDICT_CE_EXSIB	"X'C0'" Examine sibling bits
		..1.		CMPSCDICT_CE_ADDEXTCHAR	"X'20'" If on, add ext character
1	(1)	BITSTRING	1	CMPSCDICT_CE_FIRSTCHILDINDEX_REPLACED(0)	
1	(1)	BITSTRING	0	CMPSCDICT_CE_FIRSTCHILDINDEX	"X'1FFF'" This mask can be used to isolate the 13-bits of field CMPSCDICT_CE_H23 that represent the index of the first child
3	(3)	CHARACTER	5	CMPSCDICT_CE_CHILDCHAR	Child character entries
		..1.		CMPSCDICT_CE_CHILDCT_1	"B'00100000'" Value of 1 for CMPSCDICT_CE_CHILDCT within field CMPSCDICT_CE_H1
		..1.		CMPSCDICT_CE_AECCT_1	"B'00100000'" Value of 1 for CMPSCDICT_CE_AECCT within field CMPSCDICT_CE_H23
3	(3)	X'8'	0	CMPSCDICT_CE_LEN	"*-CMPSCDICT_CE"

Table 539. Structure CMPSCDICT_SD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CMPSCDICT_SD	, Dictionary format for compression, Sibling descriptor
0	(0)	BITSTRING	2	CMPSCDICT_SD_HD	Header
		1111		CMPSCDICT_SD_SIBCT	"X'F0'" Sibling count
0	(0)	BITSTRING	1	CMPSCDICT_SD_EXSIB_REPLACED(0)	
0	(0)	BITSTRING	0	CMPSCDICT_SD_EXSIB	"X'0FFF'" This represents a 12-bit subfield of CMPSCDICT_SD_HD. Each bit indicates to examine the corresponding sibling.
2	(2)	CHARACTER	6	CMPSCDICT_SD_CHILDCHAR	Sibling character entries
		...1		CMPSCDICT_SD_SIBCT_1	"B'00010000'" Value of 1 for CMPSCDICT_SD_SIBCT within field CMPSCDICT_SD_HD
2	(2)	X'8'	0	CMPSCDICT_SD_LEN	"*-CMPSCDICT_SD"

Table 540. Structure CMPSCDICT_SDE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CMPSCDICT_SDE	, Dictionary format for compression, Sibling descriptor entry in expansion dictionary
0	(0)	CHARACTER	8	CMPSCDICT_SDE_CHILDCHAR	Sibling character entries
0	(0)	X'8'	0	CMPSCDICT_SDE_LEN	"*-CMPSCDICT_SDE"

Table 541. Structure CMPSCDICT_UE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CMPSCDICT_UE	, Dictionary format for expansion, Unpreceded expansion entry
0	(0)	BITSTRING	1	CMPSCDICT_UE_HD	Header
		111.		CMPSCDICT_UE_PARTSYMLEN	"X'E0'" Partial symbol length = 0
		.... .111		CMPSCDICT_UE_COMPSYMLEN	"X'07'" Completed symbol length
1	(1)	CHARACTER	7	CMPSCDICT_UE_CHARS	Extension characters
		1		CMPSCDICT_UE_COMPSYMLEN_1	"B'00000001'" Value of 1 for CMPSCDICT_UE_COMPSYMLEN within field CMPSCDICT_UE_HD
1	(1)	X'8'	0	CMPSCDICT_UE_LEN	"*-CMPSCDICT_UE"

Table 542. Structure CMPSCDICT_PE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CMPSCDICT_PE	, Dictionary format for expansion, Preceded expansion entry
0	(0)	CHARACTER	2	CMPSCDICT_PE_HD	Header
		111.		CMPSCDICT_PE_PARTSYMLEN	"X'E0'" Partial symbol length ¬= 0
0	(0)	BITSTRING	1	CMPSCDICT_PE_PRECENTINDEX_REPLACED(0)	
0	(0)	BITSTRING	0	CMPSCDICT_PE_PRECENTINDEX	"X'1FFF'" This mask can be used to isolate the 13-bits of field CMPSCDICT_PE_HD that represent the index of the preceding entry
2	(2)	CHARACTER	5	CMPSCDICT_PE_CHARS	Extension characters
7	(7)	SIGNED	1	CMPSCDICT_PE_OFFSET	Offset where first character in CMPSCDICT_PE_CHARS belongs
		..1.		CMPSCDICT_PE_PARTSYMLEN_1	"B'00100000'" Value of 1 for CMPSCDICT_PE_PARTSYMLEN within field CMPSCDICT_PE_HD
7	(7)	X'8'	0	CMPSCDICT_PE_LEN	"*-CMPSCDICT_PE"

Table 543. Cross Reference for CSRYCMPD

Name	Offset	Hex Tag
CMPSCDICT_CE	0	
CMPSCDICT_CE_ADDEXTCHAR	1	20
CMPSCDICT_CE_AECCT	1	E0
CMPSCDICT_CE_AECCT_1	3	20
CMPSCDICT_CE_CHILDCHAR	3	
CMPSCDICT_CE_CHILDCT	0	E0
CMPSCDICT_CE_CHILDCT_1	3	20
CMPSCDICT_CE_EXCHILD	0	1F
CMPSCDICT_CE_EXSIB	1	C0
CMPSCDICT_CE_FIRSTCHILDINDEX	1	1FFF
CMPSCDICT_CE_FIRSTCHILDINDEX_REPLACED	1	
CMPSCDICT_CE_H1	0	
CMPSCDICT_CE_H23	1	

Table 543. Cross Reference for CSRYCMPD (continued)

Name	Offset	Hex Tag
CMPSCDICT_CE_LEN	3	8
CMPSCDICT_PE	0	
CMPSCDICT_PE_CHARS	2	
CMPSCDICT_PE_HD	0	
CMPSCDICT_PE_LEN	7	8
CMPSCDICT_PE_OFFSET	7	
CMPSCDICT_PE_PARTSYMLEN	0	E0
CMPSCDICT_PE_PARTSYMLEN_1	7	20
CMPSCDICT_PE_PRECENTINDEX	0	1FFF
CMPSCDICT_PE_PRECENTINDEX_REPLACED	0	
CMPSCDICT_SD	0	
CMPSCDICT_SD_CHILDCHAR	2	
CMPSCDICT_SD_EXSIB	0	FFF
CMPSCDICT_SD_EXSIB_REPLACED	0	
CMPSCDICT_SD_HD	0	
CMPSCDICT_SD_LEN	2	8
CMPSCDICT_SD_SIBCT	0	F0
CMPSCDICT_SD_SIBCT_1	2	10
CMPSCDICT_SDE	0	
CMPSCDICT_SDE_CHILDCHAR	0	
CMPSCDICT_SDE_LEN	0	8
CMPSCDICT_UE	0	
CMPSCDICT_UE_CHARS	1	
CMPSCDICT_UE_COMPSYMLEN	0	7
CMPSCDICT_UE_COMPSYMLEN_1	1	1
CMPSCDICT_UE_HD	0	
CMPSCDICT_UE_LEN	1	8
CMPSCDICT_UE_PARTSYMLEN	0	E0

Chapter 127. CSRYCMPS Information

CSRYCMPS Programming Interface Information

CSRYCMPS is a programming interface.

CSRYCMPS Heading Information

Common Name:	Compression parameter block
Macro ID:	CSRYCMPS
DSECT Name:	CMPSC
Owning Component:	Callable Services (SCCSR)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: Caller-supplied Key: Caller-supplied Residency: Caller-supplied
Size:	CMPSC -- X'0024' bytes
Created by:	Caller of CSRCMPSC service and passed as parameter on CBLOCK keyword on CSRCMPSC
Pointed to by:	Not applicable
Serialization:	None required
Function:	Maps the compression service parameter area. It represents the data needed by the compression service for which it is to be specified on the CBLOCK keyword. Provides equates for return codes from the compression service.

CSRYCMPS mapping

Table 544. Structure CMPSC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CMPSC	Compression parameter block
0	(0)	BITSTRING	4	CMPSC_FLAGS	Flag bits within which only the SymSize and Expand fields should be set. All other fields must be 0.
0	(0)	BITSTRING	1	CMPSC_FLAGS_BYTE0	Byte 0 of flags
1	(1)	BITSTRING	1	CMPSC_FLAGS_BYTE1	Byte 1 of flags
Bit definitions:					
	.... ..1.			CMPSC_ZEROPADDINGOK	"X'02'" Zero padding of the output operand on the right up to the operand length and up to a model-dependant integral boundary is OK. IBM suggests that you specify this bit. The bit will be ignored if the machine does not support the capability, so the bit can be set unconditionally.
2	(2)	BITSTRING	1	CMPSC_FLAGS_BYTE2	Byte 2 of flags
Bit definitions:					

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Table 544. Structure CMPSC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1111		CMPSC_SYMSIZE	"X'F0'" When 8 is added, indicates size in bits of a compressed entry. Must be 1-5. You can use the assembler CMPSC_SYMSIZE equate to define a value that you can use to clear the field prior to use. You can use the assembler equates CMPSC_SYMSIZE_n to set the field
		1		CMPSC_EXPAND	"X'01'" If on, do an expand operation. Otherwise compress
3	(3)	BITSTRING	1	CMPSC_FLAGS_BYTE3	Byte 3 of flags
4	(4)	ADDRESS	4	CMPSC_DICTADDR	Address of the dictionary for the compress/expand function on a page boundary. Low order 12 bits of the field are treated as 0s when forming the address. Low order 3 bits contain a bit number.
4	(4)	BITSTRING	3		
7	(7)	BITSTRING	1	CMPSC_DICTADDR_BYTE3	
Bit definitions:					
		.... .111		CMPSC_BITNUM	"X'07'" If compressing, place the first compression symbol at this bit in the leftmost byte. If expanding, expand beginning with the compression symbol that begins with this bit in the left-most byte. Normally, this bit should be set to 0 for the start of compression. For expansion, it should be set to the same value used for the start of compression. Upon completion of the operation, the value is set to the bit number of the bit following the last bit of compressed data.
8	(8)	ADDRESS	4	CMPSC_TARGETADDR	Address of area to which compression/expansion is to be done. Upon completion of the request, this address has been increased by the number of bytes processed.
12	(C)	SIGNED	4	CMPSC_TARGETLEN	Length of area to which compression/expansion is to be done. Upon completion of the request, this length has been decreased by the number of bytes processed.

Table 544. Structure CMPSC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	ADDRESS	4	CMPSC_SOURCEADDR	Address of area from which compression/expansion is to be done. Upon completion of the request, this address has been increased by the number of bytes processed.
20	(14)	SIGNED	4	CMPSC_SOURCELEN	Length of area from which compression/expansion is to be done. For expansion, the length should be the difference between the TargetLen at completion of compression and the TargetLen at start of compression, incremented by 1 if field CMPSC_BITNUM was non-zero upon completion of compression. Upon completion of the request, this length has been decreased by the number of bytes processed.
24	(18)	SIGNED	4	CMPSC_TARGETALET	The ALET of the space in which the target area resides. Should be 0 for primary ASC mode callers.
28	(1C)	SIGNED	4	CMPSC_SOURCEALET	The ALET of the space in which the source area resides. Also the ALET of the space in which the dictionary resides. Should be 0 for primary ASC mode callers.
32	(20)	ADDRESS	4	CMPSC_WORKAREAADDR	Address of a 192-byte work area for use by the compression service. This area does not need to be provided if you have verified, by checking that bit CVTCMPSH is on, that the hardware CMPSC instruction is present. This work area should begin on a doubleword boundary.
Constants for setting CMPSC_SYMSIZE bits within CMPSC_FLAGS_BYTE2					
		...1		CMPSC_SYMSIZE_1	"B'00010000'" Symbol size of 1
		..1.		CMPSC_SYMSIZE_2	"B'00100000'" Symbol size of 2
		..11		CMPSC_SYMSIZE_3	"B'00110000'" Symbol size of 3
		.1..		CMPSC_SYMSIZE_4	"B'01000000'" Symbol size of 4
		.1.1		CMPSC_SYMSIZE_5	"B'01010000'" Symbol size of 5
Return codes					
32	(20)	X'0'	0	CMPSC_RETCODE_OK	"0" No errors detected.
32	(20)	X'4'	0	CMPSC_RETCODE_TARGET	"4" Target operand exhausted before source.
32	(20)	X'10'	0	CMPSC_RETCODE_MISSINGOP	"16" An operand is missing.
32	(20)	X'14'	0	CMPSC_RETCODE_BADSYMSIZE	"20" Value in CMPSC_SYMSIZE is not supported. Must be 1-5.

Table 544. Structure CMPSC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	X'18'	0	CMPSC_RETCODE_NOWORK	"24" No work to do. The compression area length (the target for compression, the source for expansion) is not large enough to hold even one compression symbol.
32	(20)	X'1C'	0	CMPSC_RETCODE_SYMBOLTOOLONG	"28" Compression dictionary processing exceeded the limit of 260 for the length of a compressed symbol
32	(20)	X'20'	0	CMPSC_RETCODE_TOOMANYCHILDREN	"32" A dictionary entry exceeded the limit of 260 total children
32	(20)	X'24'	0	CMPSC_RETCODE_BADCHILDCOUNT	"36" A dictionary entry exceeded the limit of a child count of 6
32	(20)	X'28'	0	CMPSC_RETCODE_BADEXTCOUNT	"40" A dictionary entry exceeded the limit of 4 extension characters when there were 0 or 1 children
32	(20)	X'2C'	0	CMPSC_RETCODE_BADSIBCOUNT	"44" A sibling descriptor dictionary entry has a count of 0
32	(20)	X'30'	0	CMPSC_RETCODE_TOOMANYENTRIES	"48" Expansion of a symbol used more than 127 dictionary entries
32	(20)	X'24'	0	CMPSC_LEN	"*-CMPSC"

Table 545. Cross Reference for CSRYCMPS

Name	Offset	Hex Tag
CMPSC	0	
CMPSC_BITNUM	7	7
CMPSC_DICTADDR	4	
CMPSC_DICTADDR_BYTE3	7	
CMPSC_EXPAND	2	1
CMPSC_FLAGS	0	
CMPSC_FLAGS_BYTE0	0	
CMPSC_FLAGS_BYTE1	1	
CMPSC_FLAGS_BYTE2	2	
CMPSC_FLAGS_BYTE3	3	
CMPSC_LEN	20	24
CMPSC_RETCODE_BADCHILDCOUNT	20	24
CMPSC_RETCODE_BADEXTCOUNT	20	28
CMPSC_RETCODE_BADSIBCOUNT	20	2C
CMPSC_RETCODE_BADSYMSIZE	20	14
CMPSC_RETCODE_MISSINGOP	20	10
CMPSC_RETCODE_NOWORK	20	18
CMPSC_RETCODE_OK	20	0
CMPSC_RETCODE_SYMBOLTOOLONG	20	1C
CMPSC_RETCODE_TARGET	20	4

Table 545. Cross Reference for CSRYCMPS (continued)

Name	Offset	Hex Tag
CMPSC_RETCODE_TOOMANYCHILDREN	20	20
CMPSC_RETCODE_TOOMANYENTRIES	20	30
CMPSC_SOURCEADDR	10	
CMPSC_SOURCEALET	1C	
CMPSC_SOURCELEN	14	
CMPSC_SYMSIZE	2	F0
CMPSC_SYMSIZE_1	20	10
CMPSC_SYMSIZE_2	20	20
CMPSC_SYMSIZE_3	20	30
CMPSC_SYMSIZE_4	20	40
CMPSC_SYMSIZE_5	20	50
CMPSC_TARGETADDR	8	
CMPSC_TARGETALET	18	
CMPSC_TARGETLEN	C	
CMPSC_WORKAREAADDR	20	
CMPSC_ZEROPADDINGOK	1	2

Chapter 128. CSRYL16J Information

CSRYL16J Programming Interface Information

CSRYL16J is a programming interface.

CSRYL16J Heading Information

Common Name:	Load 16 and Jump Area
Macro ID:	CSRYL16J
DSECT Name:	L16J -- original parameter area L16J1 -- use when 64-bit GPR updates are needed
Owning Component:	Callable Services (SCCSR)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: User-supplied Key: User-supplied Residency: User-supplied
Size:	L16J -- X'00A8' bytes L16J1 -- X'0130' bytes
Created by:	User of CSRL16J. Passed as a parameter to CSRL16J
Pointed to by:	Parameter list passed to CSRL16J
Serialization:	None required
Function:	Maps the data passed into CSRL16J

CSRYL16J mapping

Table 546. Structure L16J

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	L16J	Start of area
0	(0)	SIGNED	4	L16JVERSION	Version -- Must be 0
4	(4)	SIGNED	4	L16JLENGTH	Initialize to L16J_LEN (ASM) or Length(L16J) (PL/X)
8	(8)	SIGNED	4	L16JSUBPOOL	Subpool of storage to be freed
12	(C)	CHARACTER	64	L16JGRS(0)	General registers
12	(C)	SIGNED	4	L16JGR	General register 0-15
76	(4C)	CHARACTER	64	L16JARS(0)	Access registers
76	(4C)	SIGNED	4	L16JAR	Access register 0-15
140	(8C)	CHARACTER	8	L16JPSW(0)	PSW: the processing will use the address, Amode, ASC mode, CC, and program mask. For a supervisor state or PKM 0-7 or key 0-7 caller, it will use the state and key from the PSW. Otherwise, it will set to caller key and state.
140	(8C)	BITSTRING	4	L16JPSWBYTE0TO3	First 4 bytes
144	(90)	ADDRESS	4	L16JPSWADDR(0)	Address and AMODE
		1...		L16JPSWAMODE	"X'80'" AMODE
148	(94)	BITSTRING	1	L16JFLAGS(0)	Flags

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Table 546. Structure L16J (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		L16JPROCESSARS	"X'80'" If on, ARs will be processed. Otherwise not. If not processed, ARs 0, 1, 14, and 15 are unpredictable. ARs 2-13 are taken from the values present when the service is entered.
149	(95)	CHARACTER	3	L16JRSVD	Reserved
152	(98)	ADDRESS	4	L16JAREATOFREE	Address of area to free. If this is non-0 and the length is non-0 then the area will be freed, using the subpool specified in L16JSubpool. This can be used to free the caller's entire dynamic area if so desired. When this option is specified, it is necessary that the area begin on a doubleword boundary.
156	(9C)	SIGNED	4	L16JLENGTHTOFREE	Length of area to free, in bytes
160	(A0)	CHARACTER	8		Reserved. Must change version number in order to use.
160	(A0)	X'A8'	0	L16J_LEN	"*-L16J"

Table 547. Structure L16J1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	L16J1	Use L16J1 as opposed to L16J when 64-bit GPR processing is needed
0	(0)	SIGNED	4	L16J1VERSION	Version -- Must be 1
4	(4)	SIGNED	4	L16J1LENGTH	Initialize to L16J1_LEN (ASM) or Length(L16J1) (PL/X)
8	(8)	SIGNED	4	L16J1SUBPOOL	Subpool of storage to be freed
12	(C)	CHARACTER	64	L16J1RSVD1	Reserved. Must be zeroes.
76	(4C)	CHARACTER	64	L16J1ARS(0)	Access registers
76	(4C)	SIGNED	4	L16J1AR	Access register 0-15
140	(8C)	CHARACTER	8	L16J1RSVD2	Reserved. Must be zeroes
148	(94)	BITSTRING	1	L16J1FLAGS(0)	Flags
		1...		L16J1PROCESSARS	"X'80'" If on, ARs will be processed. Otherwise not. If not processed, ARs 0, 1, 14, and 15 are unpredictable. ARs 2-13 are taken from the values present when the service is entered.
149	(95)	CHARACTER	3	L16J1RSVD	Reserved. Must be zeroes.
152	(98)	ADDRESS	4	L16J1AREATOFREE	Address of area to free. If this is non-0 and the length is non-0 then the area will be freed, using the subpool specified in L16J1Subpool. This can be used to free the caller's entire dynamic area if so desired. When this option is specified, it is necessary that the area begin on a doubleword boundary.

Table 547. Structure L16J1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
156	(9C)	SIGNED	4	L16J1LENGTHTOFREE	Length of area to free, in bytes
160	(A0)	CHARACTER	128	L16J1G64RS(0)	64-bit GPRs
160	(A0)	CHARACTER	8	L16J1G64R	General register 0-15
288	(120)	CHARACTER	16	L16J1PSWE(0)	z/Architecture PSW: the processing will use the address, Amode, ASC mode, CC, and program mask. For a supervisor state or PKM 0-7 or key 0-7 caller, it will use the state and key from the PSW. Otherwise, it will set to caller key and state.
288	(120)	BITSTRING	4	L16J1PSWEBYTE0TO3(0)	First 4 bytes
288	(120)	BITSTRING	1	L16J1PSWEBYTE0	First byte
289	(121)	BITSTRING	1	L16J1PSWEBYTE1	Second byte
290	(122)	BITSTRING	1	L16J1PSWEBYTE2	Third byte
291	(123)	BITSTRING	1	L16J1PSWEBYTE3(0)	Fourth byte
		1		L16J1PSWEAMODE64	"X'01'" Indicates AMODE 64 (with PSW bit 32 on also)
292	(124)	BITSTRING	4	L16J1PSWEBYTE4TO7(0)	Next 4 bytes
		1...		L16J1PSWEAMODE31	"X'80'" Indicates AMODE 31
296	(128)	BITSTRING	8	L16J1PSWEADDR	Instruction address
296	(128)	X'130'	0	L16J1_LEN	"*-L16J1"

Table 548. Cross Reference for CSRYL16J

Name	Offset	Hex Tag
L16J	0	
L16J_LEN	A0	A8
L16JAR	4C	
L16JAREATOFREE	98	
L16JARS	4C	
L16JFLAGS	94	
L16JGR	C	
L16JGRS	C	
L16JLENGTH	4	
L16JLENGTHTOFREE	9C	
L16JPROCESSARS	94	80
L16JPSW	8C	
L16JPSWADDR	90	
L16JPSWAMODE	90	80
L16JPSWBYTE0TO3	8C	
L16JRSVD	95	
L16JSUBPOOL	8	
L16JVERSION	0	
L16J1	0	
L16J1_LEN	128	130
L16J1AR	4C	
L16J1AREATOFREE	98	
L16J1ARS	4C	
L16J1FLAGS	94	
L16J1G64R	A0	

Table 548. Cross Reference for CSRYL16J (continued)

Name	Offset	Hex Tag
L16J1G64RS	A0	
L16J1LENGTH	4	
L16J1LENGTHTOFREE	9C	
L16J1PROCESSARS	94	80
L16J1PSWE	120	
L16J1PSWEADDR	128	
L16J1PSWEAMODE31	124	80
L16J1PSWEAMODE64	123	1
L16J1PSWEBYTE0	120	
L16J1PSWEBYTE0TO3	120	
L16J1PSWEBYTE1	121	
L16J1PSWEBYTE2	122	
L16J1PSWEBYTE3	123	
L16J1PSWEBYTE4TO7	124	
L16J1RSVD	95	
L16J1RSVD1	C	
L16J1RSVD2	8C	
L16J1SUBPOOL	8	
L16J1VERSION	0	

Chapter 129. CSRYUNIC Information

CSRYUNIC Programming Interface Information

CSRYUNIC is a programming interface.

CSRYUNIC Heading Information

Common Name:	Unicode Services parameter blocks
Macro ID:	CSRYUNIC
DSECT Name:	UNIC_CONST UNIC_MVCLU UNIC_CLCLU UNIC_TP UNIC_PKA UNIC_PKU UNIC_UNPKA UNIC_UNPKU UNIC_TRTT UNIC_TRTO UNIC_TROT UNIC_TROO UNIC_TRE UNIC_CUUTF UNIC_CUTFU
Owning Component:	Callable Services (SCCSR)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: Caller-supplied Key: Caller-supplied Residency: Caller-supplied
Size:	UNIC_CONST -- X'0000' bytes UNIC_MVCLU -- X'0040' bytes UNIC_CLCLU -- X'0040' bytes UNIC_TP -- X'0040' bytes UNIC_PKA -- X'0040' bytes UNIC_PKU -- X'0040' bytes UNIC_UNPKA -- X'0040' bytes UNIC_UNPKU -- X'0040' bytes UNIC_TRTT -- X'0040' bytes UNIC_TRTO -- X'0040' bytes UNIC_TROT -- X'0040' bytes UNIC_TROO -- X'0040' bytes UNIC_TRE -- X'0040' bytes UNIC_CUUTF -- X'0040' bytes UNIC_CUTFU -- X'0040' bytes
Created by:	Caller of CSRUNIC service and passed as parameter on PBLOCK keyword on CSRUNIC
Pointed to by:	Not applicable
Serialization:	None required
Function:	Maps the compression service parameter area. It represents the data needed by the compression service for which it is to be specified on the CBLOCK keyword. Provides equates for return codes from the compression service.

CSRYUNIC mapping

Table 549. Structure UNIC_CONST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UNIC_CONST	
0	(0)	X'100'	0	UNIC_WORKAREA_LEN	"256"
0	(0)	X'40'	0	UNIC_PBLOCK_LEN	"64"
CSRUNIC Return and Reason Code definitions					
....	....			UNIC_MVCLU_RC_OPLENGTHSEQUAL	

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Table 549. Structure UNIC_CONST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000000'" Meaning: the operand lengths were the same Action: None required
		.... .1..		UNIC_MVCLU_RC_TARGETLENGTHSHORTER	"X'00000004'" Meaning: The target operand was shorter than the source operand Action: None required
		.... 1...		UNIC_MVCLU_RC_TARGETLENGTHLONGER	"X'00000008'" Meaning: The target operand was longer than the source operand Action: None required
		...1		UNIC_MVCLU_RC_TARGETLENGTHNOTEVEN	"X'00000010'" Meaning: The target operand was not an even number of bytes Action: Only call CSRUNIC FUNCTION=MVCLU when the target operand is an even number of bytes (i.e., a whole number of unicode characters)
		...1 .1..		UNIC_MVCLU_RC_SOURCELENGTHNOTEVEN	"X'00000014'" Meaning: The source operand was not an even number of bytes Action: Only call CSRUNIC FUNCTION=MVCLU when the source operand is an even number of bytes (i.e., a whole number of unicode characters)
		...1 11..		UNIC_MVCLU_RC_WORKAREANOTALIGNED	"X'0000001C'" Meaning: The workarea provided was not on a doubleword boundary. Action: Make sure that the workarea is on a doubleword boundary.
		....		UNIC_CLCLU_RC_OPERANDSEQUAL	"X'00000000'" Meaning: the two operands were equal Action: None required
		.... .1..		UNIC_CLCLU_RC_LEFTOPLESSTHANRIGHT	"X'00000004'" Meaning: The left operand was less than the right operand Action: None required
		.... 1...		UNIC_CLCLU_RC_RIGHTOPLESSTHANLEFT	"X'00000008'" Meaning: The right operand was less than the left operand Action: None required
		...1		UNIC_CLCLU_RC_LEFTOPLENGTHNOTEVEN	"X'00000010'" Meaning: The left operand was not an even number of bytes Action: Only call CSRUNIC FUNCTION=CLCLU when the left operand is an even number of bytes (i.e., a whole number of unicode characters)

Table 549. Structure UNIC_CONST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1 .1..		UNIC_CLCLU_RC_RIGHTOPLENGTHNOTEVEN	"X'00000014'" Meaning: The right operand was not an even number of bytes Action: Only call CSRUNIC FUNCTION=CLCLU when the right operand is an even number of bytes (i.e., a whole number of unicode characters)
		...1 11..		UNIC_CLCLU_RC_WORKAREANOTALIGNED	"X'0000001C'" Meaning: The workarea provided was not on a doubleword boundary. Action: Make sure that the workarea is on a doubleword boundary.
		....		UNIC_TP_RC_VALID	"X'00000000'" Meaning: the operand is a valid packed number Action: None required
		.... .1..		UNIC_TP_RC_SIGNNOTVALID	"X'00000004'" Meaning: The sign of the operand was not valid. All the digits were valid. Action: None required
		.... 1...		UNIC_TP_RC_DIGITNOTVALID	"X'00000008'" Meaning: One or more digits of the operand were not valid. The sign was valid. Action: None required
		.... 11..		UNIC_TP_RC_SIGNDIGITNOTVALID	"X'0000000C'" Meaning: The sign and one or more digits of the operand were not valid. Action: None required
		...1 11..		UNIC_TP_RC_WORKAREANOTALIGNED	"X'0000001C'" Meaning: The workarea provided was not on a doubleword boundary. Action: Make sure that the workarea is on a doubleword boundary.
		....		UNIC_PKA_RC_OK	"X'00000000'" Meaning: The pack operation completed successfully Action: None required
		...1 .1..		UNIC_PKA_RC_SOURCELENGTHNOTVALID	"X'00000014'" Meaning: The length of the source operand exceeded 32 bytes (i.e., the LengthMinusOne exceeded 31) Action: Avoid calling CSRUNIC REQUEST=PKA for an operand longer than 32 bytes
		...1 11..		UNIC_PKA_RC_WORKAREANOTALIGNED	"X'0000001C'" Meaning: The workarea provided was not on a doubleword boundary. Action: Make sure that the workarea is on a doubleword boundary.

Table 549. Structure UNIC_CONST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		....		UNIC_PKU_RC_OK	"X'00000000'" Meaning: The pack operation completed successfully Action: None required
		...1 .1..		UNIC_PKU_RC_SOURCELENGTHNOTVALID	"X'00000014'" Meaning: The length of the source operand exceeded 64 bytes (i.e., the LengthMinusOne exceeded 63) Action: Avoid calling CSRUNIC REQUEST=PKU for an operand longer than 64 bytes
		..1. .1..		UNIC_PKU_RC_SOURCELENGTHNOTEVEN	"X'00000024'" Meaning: The source operand was not an even number of bytes Action: Only call CSRUNIC FUNCTION=PKU when the source operand is an even number of bytes (i.e., a whole number of unicode characters)
		...1 11..		UNIC_PKU_RC_WORKAREANOTALIGNED	"X'0000001C'" Meaning: The workarea provided was not on a doubleword boundary. Action: Make sure that the workarea is on a doubleword boundary.
		....		UNIC_UNPKA_RC_POSITIVE	"X'00000000'" Meaning: The operand represented a positive number Action: None required
		.... .1..		UNIC_UNPKA_RC_NEGATIVE	"X'00000004'" Meaning: The operand represented a negative number Action: None required
		.... 11..		UNIC_UNPKA_RC_BADSIGN	"X'0000000C'" Meaning: The operand did not have a valid sign Action: None required
		...1 .1..		UNIC_UNPKA_RC_TARGETLENGTHNOTVALID	"X'00000014'" Meaning: The length of the target operand exceeded 32 bytes (i.e., the LengthMinusOne exceeded 31) Action: Avoid calling CSRUNIC REQUEST=PKA for an operand longer than 32 bytes
		...1 11..		UNIC_UNPKA_RC_WORKAREANOTALIGNED	"X'0000001C'" Meaning: The workarea provided was not on a doubleword boundary. Action: Make sure that the workarea is on a doubleword boundary.
		....		UNIC_UNPKU_RC_POSITIVE	"X'00000000'" Meaning: The operand represented a positive number Action: None required
		.... .1..		UNIC_UNPKU_RC_NEGATIVE	"X'00000004'" Meaning: The operand represented a negative number Action: None required

Table 549. Structure UNIC_CONST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 11..		UNIC_UNPKU_RC_BADSIGN	"X'0000000C'" Meaning: The operand did not have a valid sign Action: None required
		...1 .1..		UNIC_UNPKU_RC_TARGETLENGTHNOTVALID	"X'00000014'" Meaning: The length of the target operand exceeded 64 bytes (i.e., the LengthMinusOne exceeded 63) Action: Avoid calling CSRUNIC REQUEST=PKU for an operand longer than 64 bytes
		..1. .1..		UNIC_UNPKU_RC_TARGETLENGTHNOTEVEN	"X'00000024'" Meaning: The target operand was not an even number of bytes Action: Only call CSRUNIC FUNCTION=UNPKU when the target operand is an even number of bytes (i.e., a whole number of unicode characters)
		...1 11..		UNIC_UNPKU_RC_WORKAREANOTALIGNED	"X'0000001C'" Meaning: The workarea provided was not on a doubleword boundary. Action: Make sure that the workarea is on a doubleword boundary.
		....		UNIC_TRTT_RC_TESTCHARNOTFOUND	"X'00000000'" Meaning: The translation completed. The test character was not found. Action: None required
		.... .1..		UNIC_TRTT_RC_TESTCHARFOUND	"X'00000004'" Meaning: The test character was found. The operation ended at that point. Action: None required
		...1		UNIC_TRTT_RC_LENGTHNOTEVEN	"X'00000010'" Meaning: The operand was not an even number of bytes Action: Only call CSRUNIC FUNCTION=TRTT when the operand is an even number of bytes (i.e., a whole number of unicode characters)
		...1 11..		UNIC_TRTT_RC_WORKAREANOTALIGNED	"X'0000001C'" Meaning: The workarea provided was not on a doubleword boundary. Action: Make sure that the workarea is on a doubleword boundary.
		..1.		UNIC_TRTT_RC_TABLENOTALIGNED	"X'00000020'" Meaning: The table provided was not on a page boundary. Action: Make sure that the table is on a page boundary.
		....		UNIC_TRTO_RC_TESTCHARNOTFOUND	

Table 549. Structure UNIC_CONST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000000'" Meaning: The translation completed. The test character was not found. Action: None required
		.... .1..		UNIC_TRTO_RC_TESTCHARFOUND	"X'00000004'" Meaning: The test character was found. The operation ended at that point. Action: None required
		...1		UNIC_TRTO_RC_LENGTHNOTEVEN	"X'00000010'" Meaning: The operand was not an even number of bytes Action: Only call CSRUNIC FUNCTION=TRTO when the operand is an even number of bytes (i.e., a whole number of unicode characters)
		...1 11..		UNIC_TRTO_RC_WORKAREANOTALIGNED	"X'0000001C'" Meaning: The workarea provided was not on a doubleword boundary. Action: Make sure that the workarea is on a doubleword boundary.
		..1.		UNIC_TRTO_RC_TABLENOTALIGNED	"X'00000020'" Meaning: The table provided was not on a page boundary. Action: Make sure that the table is on a page boundary.
		....		UNIC_TROT_RC_TESTCHARNOTFOUND	"X'00000000'" Meaning: The translation completed. The test character was not found. Action: None required
		.... .1..		UNIC_TROT_RC_TESTCHARFOUND	"X'00000004'" Meaning: The test character was found. The operation ended at that point. Action: None required
		...1 11..		UNIC_TROT_RC_WORKAREANOTALIGNED	"X'0000001C'" Meaning: The workarea provided was not on a doubleword boundary. Action: Make sure that the workarea is on a doubleword boundary.
		..1.		UNIC_TROT_RC_TABLENOTALIGNED	"X'00000020'" Meaning: The table provided was not on a doubleword boundary. Action: Make sure that the table is on a doubleword boundary.
		....		UNIC_TROO_RC_TESTCHARNOTFOUND	"X'00000000'" Meaning: The translation completed. The test character was not found. Action: None required

Table 549. Structure UNIC_CONST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		UNIC_TROO_RC_TESTCHARFOUND	"X'00000004'" Meaning: The test character was found. The operation ended at that point. Action: None required
		...1 11..		UNIC_TROO_RC_WORKAREANOTALIGNED	"X'0000001C'" Meaning: The workarea provided was not on a doubleword boundary. Action: Make sure that the workarea is on a doubleword boundary.
		..1.		UNIC_TROO_RC_TABLENOTALIGNED	"X'00000020'" Meaning: The table provided was not on a doubleword boundary. Action: Make sure that the table is on a doubleword boundary.
		....		UNIC_TRE_RC_TESTCHARNOTFOUND	"X'00000000'" Meaning: The translation completed. The test character was not found. Action: None required
		.... .1..		UNIC_TRE_RC_TESTCHARFOUND	"X'00000004'" Meaning: The test character was found. The operation ended at that point. Action: None required
		...1 11..		UNIC_TRE_RC_WORKAREANOTALIGNED	"X'0000001C'" Meaning: The workarea provided was not on a doubleword boundary. Action: Make sure that the workarea is on a doubleword boundary.
		....		UNIC_CUUTF_RC_SOURCEEXHAUSTED	"X'00000000'" Meaning: All unicode characters in the source were converted to their UTF-8 equivalents. Action: None required
		.... .1..		UNIC_CUUTF_RC_TARGETEXHAUSTED	"X'00000004'" Meaning: The target operand did not have enough room to hold the UTF-8 equivalents of all of the source unicode characters. Action: Provide a larger target area.
		...1 11..		UNIC_CUUTF_RC_WORKAREANOTALIGNED	"X'0000001C'" Meaning: The workarea provided was not on a doubleword boundary. Action: Make sure that the workarea is on a doubleword boundary.
		....		UNIC_CUTFU_RC_SOURCEEXHAUSTED	

Table 549. Structure UNIC_CONST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000000'" Meaning: All UTF-8 characters in the source were converted to their unicode equivalents. Action: None required
		.... .1..		UNIC_CUTFU_RC_TARGETEXHAUSTED	
					"X'00000004'" Meaning: The target operand did not have enough room to hold the unicode equivalents of all of the source UTF-8 characters. Action: Provide a larger target area.
		.... 1...		UNIC_CUTFU_RC_BADUTF8CHAR	"X'00000008'" Meaning: A character in the source operand was not a valid UTF-8 character. Action: Make sure that the source operand contains only valid UTF-8 characters.
		...1 11..		UNIC_CUTFU_RC_WORKAREANOTALIGNED	
					"X'0000001C'"
0	(0)	X'0'	0	UNIC_CONST_LEN	"*-UNIC_CONST" Meaning: The workarea provided was not on a doubleword boundary. Action: Make sure that the workarea is on a doubleword boundary.

Table 550. Structure UNIC_MVCLU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UNIC_MVCLU	MVCLU parameter block
0	(0)	ADDRESS	4	UNIC_MVCLU_TARGETADDR	Address of the target area
4	(4)	SIGNED	4	UNIC_MVCLU_TARGETLEN	Length of the target area
8	(8)	ADDRESS	4	UNIC_MVCLU_SOURCEADDR	Address of the Source area
12	(C)	SIGNED	4	UNIC_MVCLU_SOURCELEN	Length of the Source area
16	(10)	SIGNED	4	UNIC_MVCLU_TARGETALET	ALET to use to access the target area. Use 0 if not in AR mode
20	(14)	CHARACTER	2	UNIC_MVCLU_PADCHAR	Unicode PAD character
22	(16)	CHARACTER	2		Reserved
24	(18)	SIGNED	4	UNIC_MVCLU_SOURCEALET	ALET to use to access the target area. Use 0 if not in AR mode
28	(1C)	ADDRESS	4	UNIC_MVCLU_WORKAREAADDR	Address of 256-byte workarea on doubleword boundary
32	(20)	SIGNED	4	UNIC_MVCLU_WORKAREAALET	ALET of workarea
36	(24)	CHARACTER	28		
36	(24)	X'40'	0	UNIC_MVCLU_LEN	"*-UNIC_MVCLU"

Table 551. Structure UNIC_CLCLU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UNIC_CLCLU	CLCLU parameter block
0	(0)	ADDRESS	4	UNIC_CLCLU_LEFTOPADDR	Address of the target area
4	(4)	SIGNED	4	UNIC_CLCLU_LEFTOPLEN	Length of the target area

Table 551. Structure UNIC_CLCLU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	ADDRESS	4	UNIC_CLCLU_RIGHTOPADDR	Address of the Source area
12	(C)	SIGNED	4	UNIC_CLCLU_RIGHTOPLEN	Length of the Source area
16	(10)	SIGNED	4	UNIC_CLCLU_LEFTOPALET	ALET to use to access the target area. Use 0 if not in AR mode
20	(14)	CHARACTER	2	UNIC_CLCLU_PADCHAR	Unicode PAD character
22	(16)	CHARACTER	2		Reserved
24	(18)	SIGNED	4	UNIC_CLCLU_RIGHTOPALET	ALET to use to access the target area. Use 0 if not in AR mode
28	(1C)	ADDRESS	4	UNIC_CLCLU_WORKAREAADDR	Address of 256-byte workarea on doubleword boundary
32	(20)	SIGNED	4	UNIC_CLCLU_WORKAREAALET	ALET of workarea
36	(24)	CHARACTER	28		
36	(24)	X'40'	0	UNIC_CLCLU_LEN	"*-UNIC_CLCLU"

Table 552. Structure UNIC_TP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UNIC_TP	TP parameter block
0	(0)	ADDRESS	4	UNIC_TP_AREAADDR	Address of the area to be tested
4	(4)	SIGNED	4	UNIC_TP_LENMINUSONE	Length minus one of the area
8	(8)	SIGNED	4	UNIC_TP_AREAALET	ALET of the area to be tested. Use 0 if not in AR-mode.
12	(C)	ADDRESS	4	UNIC_TP_WORKAREAADDR	Address of 256-byte workarea on doubleword boundary
16	(10)	SIGNED	4	UNIC_TP_WORKAREAALET	ALET of workarea
20	(14)	CHARACTER	40		
64	(40)	X'40'	0	UNIC_TP_LEN	"*-UNIC_TP"

Table 553. Structure UNIC_PKA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UNIC_PKA	PKA parameter block
0	(0)	ADDRESS	4	UNIC_PKA_TARGETADDR	Address of the target area
4	(4)	SIGNED	4	UNIC_PKA_SOURCELENMINUSONE	Length minus one of the source area
8	(8)	ADDRESS	4	UNIC_PKA_SOURCEADDR	Address of the Source area
12	(C)	ADDRESS	4	UNIC_PKA_TARGETALET	ALET of the target area
16	(10)	CHARACTER	4		
20	(14)	SIGNED	4	UNIC_PKA_SOURCEALET	ALET of the source area
24	(18)	ADDRESS	4	UNIC_PKA_WORKAREAADDR	Address of 256-byte workarea on doubleword boundary
28	(1C)	SIGNED	4	UNIC_PKA_WORKAREAALET	ALET of workarea
32	(20)	CHARACTER	32		
32	(20)	X'40'	0	UNIC_PKA_LEN	"*-UNIC_PKA"

Table 554. Structure UNIC_PKU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UNIC_PKU	PKU parameter block
0	(0)	ADDRESS	4	UNIC_PKU_TARGETADDR	Address of the target area

Table 554. Structure UNIC_PKU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	SIGNED	4	UNIC_PKU_SOURCELENMINUSONE	Length minus one of the target area
8	(8)	ADDRESS	4	UNIC_PKU_SOURCEADDR	Address of the Source area
12	(C)	ADDRESS	4	UNIC_PKU_TARGETALET	ALET of the target area
16	(10)	CHARACTER	4		
20	(14)	SIGNED	4	UNIC_PKU_SOURCEALET	ALET of the source area
24	(18)	ADDRESS	4	UNIC_PKU_WORKAREAADDR	Address of 256-byte workarea on doubleword boundary
28	(1C)	SIGNED	4	UNIC_PKU_WORKAREAALET	ALET of workarea
32	(20)	CHARACTER	32		
32	(20)	X'40'	0	UNIC_PKU_LEN	"*-UNIC_PKU"

Table 555. Structure UNIC_UNPKA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UNIC_UNPKA	UNPKA parameter block
0	(0)	ADDRESS	4	UNIC_UNPKA_TARGETADDR	Address of the target area
4	(4)	SIGNED	4	UNIC_UNPKA_TARGETLENMINUSONE	Length minus one of the target area
8	(8)	ADDRESS	4	UNIC_UNPKA_SOURCEADDR	Address of the Source area
12	(C)	ADDRESS	4	UNIC_UNPKA_TARGETALET	ALET of the target area
16	(10)	CHARACTER	4		
20	(14)	SIGNED	4	UNIC_UNPKA_SOURCEALET	ALET of the source area
24	(18)	ADDRESS	4	UNIC_UNPKA_WORKAREAADDR	Address of 256-byte workarea on doubleword boundary
28	(1C)	SIGNED	4	UNIC_UNPKA_WORKAREAALET	ALET of workarea
32	(20)	CHARACTER	32		
32	(20)	X'40'	0	UNIC_UNPKA_LEN	"*-UNIC_UNPKA"

Table 556. Structure UNIC_UNPKU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UNIC_UNPKU	UNPKU parameter block
0	(0)	ADDRESS	4	UNIC_UNPKU_TARGETADDR	Address of the target area
4	(4)	SIGNED	4	UNIC_UNPKU_TARGETLENMINUSONE	Length minus one of the target area
8	(8)	ADDRESS	4	UNIC_UNPKU_SOURCEADDR	Address of the Source area
12	(C)	ADDRESS	4	UNIC_UNPKU_TARGETALET	ALET of the target area
16	(10)	CHARACTER	4		
20	(14)	SIGNED	4	UNIC_UNPKU_SOURCEALET	ALET of the source area
24	(18)	ADDRESS	4	UNIC_UNPKU_WORKAREAADDR	Address of 256-byte workarea on doubleword boundary
28	(1C)	SIGNED	4	UNIC_UNPKU_WORKAREAALET	ALET of workarea
32	(20)	CHARACTER	32		
32	(20)	X'40'	0	UNIC_UNPKU_LEN	"*-UNIC_UNPKU"

Table 557. Structure UNIC_TRTT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UNIC_TRTT	TRTT parameter block
0	(0)	ADDRESS	4	UNIC_TRTT_TABLEADDR	Address of the 128K translate table. It must be on a page boundary.
4	(4)	ADDRESS	4	UNIC_TRTT_TARGETADDR	Address of the target area
8	(8)	SIGNED	4	UNIC_TRTT_LENGTH	Length of the source and target areas
12	(C)	ADDRESS	4	UNIC_TRTT_SOURCEADDR	Address of the Source area
16	(10)	SIGNED	4	UNIC_TRTT_TABLEALET	ALET to use to access the translate table area. Use 0 if not in AR mode
20	(14)	SIGNED	4	UNIC_TRTT_TARGETALET	ALET to use to access the target area. Use 0 if not in AR mode
24	(18)	CHARACTER	2	UNIC_TRTT_TESTCHAR	Unicode test character
26	(1A)	CHARACTER	2		Reserved
28	(1C)	SIGNED	4	UNIC_TRTT_SOURCEALET	ALET to use to access the target area. Use 0 if not in AR mode
32	(20)	ADDRESS	4	UNIC_TRTT_WORKAREAADDR	Address of 256-byte workarea on doubleword boundary
36	(24)	SIGNED	4	UNIC_TRTT_WORKAREAALET	ALET of workarea
40	(28)	CHARACTER	24		
40	(28)	X'40'	0	UNIC_TRTT_LEN	"*-UNIC_TRTT"

Table 558. Structure UNIC_TRTO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UNIC_TRTO	TRTO parameter block
0	(0)	ADDRESS	4	UNIC_TRTO_TABLEADDR	Address of the 64K translate table. It must be on a page boundary.
4	(4)	ADDRESS	4	UNIC_TRTO_TARGETADDR	Address of the target area
8	(8)	SIGNED	4	UNIC_TRTO_LENGTH	Length of the source area in bytes. This is twice the length of the target area.
12	(C)	ADDRESS	4	UNIC_TRTO_SOURCEADDR	Address of the Source area
16	(10)	SIGNED	4	UNIC_TRTO_TABLEALET	ALET to use to access the translate table area. Use 0 if not in AR mode
20	(14)	SIGNED	4	UNIC_TRTO_TARGETALET	ALET to use to access the target area. Use 0 if not in AR mode
24	(18)	CHARACTER	1	UNIC_TRTO_TESTCHAR	Test character
25	(19)	CHARACTER	3		Reserved
28	(1C)	SIGNED	4	UNIC_TRTO_SOURCEALET	ALET to use to access the target area. Use 0 if not in AR mode
32	(20)	ADDRESS	4	UNIC_TRTO_WORKAREAADDR	Address of 256-byte workarea on doubleword boundary
36	(24)	SIGNED	4	UNIC_TRTO_WORKAREAALET	ALET of workarea
40	(28)	CHARACTER	24		
40	(28)	X'40'	0	UNIC_TRTO_LEN	"*-UNIC_TRTO"

CSRYUNIC mapping

Table 559. Structure UNIC_TROT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UNIC_TROT	TROT parameter block
0	(0)	ADDRESS	4	UNIC_TROT_TABLEADDR	Address of the 512-byte translate table. It must be on a doubleword boundary.
4	(4)	ADDRESS	4	UNIC_TROT_TARGETADDR	Address of the target area
8	(8)	SIGNED	4	UNIC_TROT_LENGTH	Length of the source area in bytes. This is half the length of the target area.
12	(C)	ADDRESS	4	UNIC_TROT_SOURCEADDR	Address of the Source area
16	(10)	SIGNED	4	UNIC_TROT_TABLEALET	ALET to use to access the translate table area. Use 0 if not in AR mode
20	(14)	SIGNED	4	UNIC_TROT_TARGETALET	ALET to use to access the target area. Use 0 if not in AR mode
24	(18)	CHARACTER	2	UNIC_TROT_TESTCHAR	Unicode test character
26	(1A)	CHARACTER	2		Reserved
28	(1C)	SIGNED	4	UNIC_TROT_SOURCEALET	ALET to use to access the target area. Use 0 if not in AR mode
32	(20)	ADDRESS	4	UNIC_TROT_WORKAREAADDR	Address of 256-byte workarea on doubleword boundary
36	(24)	SIGNED	4	UNIC_TROT_WORKAREAALET	ALET of workarea
40	(28)	CHARACTER	24		
40	(28)	X'40'	0	UNIC_TROT_LEN	"*-UNIC_TROT"

Table 560. Structure UNIC_TROO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UNIC_TROO	TROO parameter block
0	(0)	ADDRESS	4	UNIC_TROO_TABLEADDR	Address of the 256-byte translate table. It must be on a doubleword boundary.
4	(4)	ADDRESS	4	UNIC_TROO_TARGETADDR	Address of the target area
8	(8)	SIGNED	4	UNIC_TROO_LENGTH	Length of the source and target areas in bytes
12	(C)	ADDRESS	4	UNIC_TROO_SOURCEADDR	Address of the Source area
16	(10)	SIGNED	4	UNIC_TROO_TABLEALET	ALET to use to access the translate table area. Use 0 if not in AR mode
20	(14)	SIGNED	4	UNIC_TROO_TARGETALET	ALET to use to access the target area. Use 0 if not in AR mode
24	(18)	CHARACTER	1	UNIC_TROO_TESTCHAR	Test character
25	(19)	CHARACTER	3		Reserved
28	(1C)	SIGNED	4	UNIC_TROO_SOURCEALET	ALET to use to access the target area. Use 0 if not in AR mode
32	(20)	ADDRESS	4	UNIC_TROO_WORKAREAADDR	Address of 256-byte workarea on doubleword boundary
36	(24)	SIGNED	4	UNIC_TROO_WORKAREAALET	ALET of workarea
40	(28)	CHARACTER	24		
40	(28)	X'40'	0	UNIC_TROO_LEN	"*-UNIC_TROO"

Table 561. Structure UNIC_TRE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UNIC_TRE	TRE parameter block
0	(0)	ADDRESS	4	UNIC_TRE_AREAADDR	Address of the source/target area
4	(4)	SIGNED	4	UNIC_TRE_LENGTH	Length of the source/target area
8	(8)	ADDRESS	4	UNIC_TRE_TABLEADDR	Address of the 256-byte translate table
12	(C)	CHARACTER	3		Reserved
15	(F)	CHARACTER	1	UNIC_TRE_TESTCHAR	Test character
16	(10)	SIGNED	4	UNIC_TRE_AREAALET	ALET to use to access the source/target area. Use 0 if not in AR mode
20	(14)	CHARACTER	4		Reserved
24	(18)	SIGNED	4	UNIC_TRE_TABLEALET	ALET to use to access the translate table area. Use 0 if not in AR mode
28	(1C)	ADDRESS	4	UNIC_TRE_WORKAREAADDR	Address of 256-byte workarea on doubleword boundary
32	(20)	SIGNED	4	UNIC_TRE_WORKAREAALET	ALET of workarea
36	(24)	CHARACTER	28		
36	(24)	X'40'	0	UNIC_TRE_LEN	"*-UNIC_TRE"

Table 562. Structure UNIC_CUUTF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UNIC_CUUTF	CUUTF parameter block
0	(0)	ADDRESS	4	UNIC_CUUTF_TARGETADDR	Address of the target area
4	(4)	SIGNED	4	UNIC_CUUTF_TARGETLEN	Length of the target area
8	(8)	ADDRESS	4	UNIC_CUUTF_SOURCEADDR	Address of the Source area
12	(C)	SIGNED	4	UNIC_CUUTF_SOURCELEN	Length of the Source area
16	(10)	SIGNED	4	UNIC_CUUTF_TARGETALET	ALET to use to access the target area. Use 0 if not in AR mode
20	(14)	CHARACTER	4		Reserved
24	(18)	SIGNED	4	UNIC_CUUTF_SOURCEALET	ALET to use to access the target area. Use 0 if not in AR mode
28	(1C)	ADDRESS	4	UNIC_CUUTF_WORKAREAADDR	Address of 256-byte workarea on doubleword boundary
32	(20)	SIGNED	4	UNIC_CUUTF_WORKAREAALET	ALET of workarea
36	(24)	CHARACTER	28		
36	(24)	X'40'	0	UNIC_CUUTF_LEN	"*-UNIC_CUUTF"

Table 563. Structure UNIC_CUTFU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UNIC_CUTFU	CUTFU parameter block
0	(0)	ADDRESS	4	UNIC_CUTFU_TARGETADDR	Address of the target area
4	(4)	SIGNED	4	UNIC_CUTFU_TARGETLEN	Length of the target area
8	(8)	ADDRESS	4	UNIC_CUTFU_SOURCEADDR	Address of the Source area
12	(C)	SIGNED	4	UNIC_CUTFU_SOURCELEN	Length of the Source area
16	(10)	SIGNED	4	UNIC_CUTFU_TARGETALET	ALET to use to access the target area. Use 0 if not in AR mode
20	(14)	CHARACTER	4		Reserved

Table 563. Structure UNIC_CUTFU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	SIGNED	4	UNIC_CUTFU_SOURCEALET	ALET to use to access the target area. Use 0 if not in AR mode
28	(1C)	ADDRESS	4	UNIC_CUTFU_WORKAREAADDR	Address of 256-byte workarea on doubleword boundary
32	(20)	SIGNED	4	UNIC_CUTFU_WORKAREAALET	ALET of workarea
36	(24)	CHARACTER	28		
36	(24)	X'40'	0	UNIC_CUTFU_LEN	"*-UNIC_CUTFU"

Table 564. Cross Reference for CSRYUNIC

Name	Offset	Hex Tag
UNIC_CLCLU	0	
UNIC_CLCLU_LEFTOPADDR	0	
UNIC_CLCLU_LEFTOPALET	10	
UNIC_CLCLU_LEFTOPLEN	4	
UNIC_CLCLU_LEN	24	40
UNIC_CLCLU_PADCHAR	14	
UNIC_CLCLU_RC_LEFTOPLENGTHNOTEVEN	0	10
UNIC_CLCLU_RC_LEFTOPLESSTHANRIGHT	0	4
UNIC_CLCLU_RC_OPERANDSEQUAL	0	0
UNIC_CLCLU_RC_RIGHTOPLENGTHNOTEVEN	0	14
UNIC_CLCLU_RC_RIGHTOPLESSTHANLEFT	0	8
UNIC_CLCLU_RC_WORKAREANOTALIGNED	0	1C
UNIC_CLCLU_RIGHTOPADDR	8	
UNIC_CLCLU_RIGHTOPALET	18	
UNIC_CLCLU_RIGHTOPLEN	C	
UNIC_CLCLU_WORKAREAADDR	1C	
UNIC_CLCLU_WORKAREAALET	20	
UNIC_CONST	0	
UNIC_CONST_LEN	0	0
UNIC_CUTFU	0	
UNIC_CUTFU_LEN	24	40
UNIC_CUTFU_RC_BADUTF8CHAR	0	8
UNIC_CUTFU_RC_SOURCEEXHAUSTED	0	0
UNIC_CUTFU_RC_TARGETEXHAUSTED	0	4
UNIC_CUTFU_RC_WORKAREANOTALIGNED	0	1C
UNIC_CUTFU_SOURCEADDR	8	
UNIC_CUTFU_SOURCEALET	18	
UNIC_CUTFU_SOURCELEN	C	
UNIC_CUTFU_TARGETADDR	0	
UNIC_CUTFU_TARGETALET	10	
UNIC_CUTFU_TARGETLEN	4	
UNIC_CUTFU_WORKAREAADDR	1C	
UNIC_CUTFU_WORKAREAALET	20	
UNIC_CUUTF	0	
UNIC_CUUTF_LEN	24	40
UNIC_CUUTF_RC_SOURCEEXHAUSTED	0	0
UNIC_CUUTF_RC_TARGETEXHAUSTED	0	4
UNIC_CUUTF_RC_WORKAREANOTALIGNED	0	1C

Table 564. Cross Reference for CSRYUNIC (continued)

Name	Offset	Hex Tag
UNIC_CUUTF_SOURCEADDR	8	
UNIC_CUUTF_SOURCEALET	18	
UNIC_CUUTF_SOURCELEN	C	
UNIC_CUUTF_TARGETADDR	0	
UNIC_CUUTF_TARGETALET	10	
UNIC_CUUTF_TARGETLEN	4	
UNIC_CUUTF_WORKAREAADDR	1C	
UNIC_CUUTF_WORKAREAALET	20	
UNIC_MVCLU	0	
UNIC_MVCLU_LEN	24	40
UNIC_MVCLU_PADCHAR	14	
UNIC_MVCLU_RC_OPLENGTHSEQUAL	0	0
UNIC_MVCLU_RC_SOURCELENGTHNOTEVEN	0	14
UNIC_MVCLU_RC_TARGETLENGTHLONGER	0	8
UNIC_MVCLU_RC_TARGETLENGTHNOTEVEN	0	10
UNIC_MVCLU_RC_TARGETLENGTHSHORTER	0	4
UNIC_MVCLU_RC_WORKAREANOTALIGNED	0	1C
UNIC_MVCLU_SOURCEADDR	8	
UNIC_MVCLU_SOURCEALET	18	
UNIC_MVCLU_SOURCELEN	C	
UNIC_MVCLU_TARGETADDR	0	
UNIC_MVCLU_TARGETALET	10	
UNIC_MVCLU_TARGETLEN	4	
UNIC_MVCLU_WORKAREAADDR	1C	
UNIC_MVCLU_WORKAREAALET	20	
UNIC_PBLOCK_LEN	0	40
UNIC_PKA	0	
UNIC_PKA_LEN	20	40
UNIC_PKA_RC_OK	0	0
UNIC_PKA_RC_SOURCELENGTHNOTVALID	0	14
UNIC_PKA_RC_WORKAREANOTALIGNED	0	1C
UNIC_PKA_SOURCEADDR	8	
UNIC_PKA_SOURCEALET	14	
UNIC_PKA_SOURCELENMINUSONE	4	
UNIC_PKA_TARGETADDR	0	
UNIC_PKA_TARGETALET	C	
UNIC_PKA_WORKAREAADDR	18	
UNIC_PKA_WORKAREAALET	1C	
UNIC_PKU	0	
UNIC_PKU_LEN	20	40
UNIC_PKU_RC_OK	0	0
UNIC_PKU_RC_SOURCELENGTHNOTEVEN	0	24
UNIC_PKU_RC_SOURCELENGTHNOTVALID	0	14
UNIC_PKU_RC_WORKAREANOTALIGNED	0	1C
UNIC_PKU_SOURCEADDR	8	
UNIC_PKU_SOURCEALET	14	
UNIC_PKU_SOURCELENMINUSONE	4	
UNIC_PKU_TARGETADDR	0	
UNIC_PKU_TARGETALET	C	

Table 564. Cross Reference for CSRYUNIC (continued)

Name	Offset	Hex Tag
UNIC_PKU_WORKAREAADDR	18	
UNIC_PKU_WORKAREAALET	1C	
UNIC_TP	0	
UNIC_TP_AREAADDR	0	
UNIC_TP_AREAALET	8	
UNIC_TP_LEN	40	40
UNIC_TP_LENMINUSONE	4	
UNIC_TP_RC_DIGITNOTVALID	0	8
UNIC_TP_RC_SIGNDIGITNOTVALID	0	C
UNIC_TP_RC_SIGNNOTVALID	0	4
UNIC_TP_RC_VALID	0	0
UNIC_TP_RC_WORKAREANOTALIGNED	0	1C
UNIC_TP_WORKAREAADDR	C	
UNIC_TP_WORKAREAALET	10	
UNIC_TRE	0	
UNIC_TRE_AREAADDR	0	
UNIC_TRE_AREAALET	10	
UNIC_TRE_LEN	24	40
UNIC_TRE_LENGTH	4	
UNIC_TRE_RC_TESTCHARFOUND	0	4
UNIC_TRE_RC_TESTCHARNOTFOUND	0	0
UNIC_TRE_RC_WORKAREANOTALIGNED	0	1C
UNIC_TRE_TABLEADDR	8	
UNIC_TRE_TABLEALET	18	
UNIC_TRE_TESTCHAR	F	
UNIC_TRE_WORKAREAADDR	1C	
UNIC_TRE_WORKAREAALET	20	
UNIC_TROO	0	
UNIC_TROO_LEN	28	40
UNIC_TROO_LENGTH	8	
UNIC_TROO_RC_TABLENOTALIGNED	0	20
UNIC_TROO_RC_TESTCHARFOUND	0	4
UNIC_TROO_RC_TESTCHARNOTFOUND	0	0
UNIC_TROO_RC_WORKAREANOTALIGNED	0	1C
UNIC_TROO_SOURCEADDR	C	
UNIC_TROO_SOURCEALET	1C	
UNIC_TROO_TABLEADDR	0	
UNIC_TROO_TABLEALET	10	
UNIC_TROO_TARGETADDR	4	
UNIC_TROO_TARGETALET	14	
UNIC_TROO_TESTCHAR	18	
UNIC_TROO_WORKAREAADDR	20	
UNIC_TROO_WORKAREAALET	24	
UNIC_TROT	0	
UNIC_TROT_LEN	28	40
UNIC_TROT_LENGTH	8	
UNIC_TROT_RC_TABLENOTALIGNED	0	20
UNIC_TROT_RC_TESTCHARFOUND	0	4
UNIC_TROT_RC_TESTCHARNOTFOUND	0	0

Table 564. Cross Reference for CSRYUNIC (continued)

Name	Offset	Hex Tag
UNIC_TROT_RC_WORKAREANOTALIGNED	0	1C
UNIC_TROT_SOURCEADDR	C	
UNIC_TROT_SOURCEALET	1C	
UNIC_TROT_TABLEADDR	0	
UNIC_TROT_TABLEALET	10	
UNIC_TROT_TARGETADDR	4	
UNIC_TROT_TARGETALET	14	
UNIC_TROT_TESTCHAR	18	
UNIC_TROT_WORKAREAADDR	20	
UNIC_TROT_WORKAREAALET	24	
UNIC_TRTO	0	
UNIC_TRTO_LEN	28	40
UNIC_TRTO_LENGTH	8	
UNIC_TRTO_RC_LENGTHNOTEVEN	0	10
UNIC_TRTO_RC_TABLENOTALIGNED	0	20
UNIC_TRTO_RC_TESTCHARFOUND	0	4
UNIC_TRTO_RC_TESTCHARNOTFOUND	0	0
UNIC_TRTO_RC_WORKAREANOTALIGNED	0	1C
UNIC_TRTO_SOURCEADDR	C	
UNIC_TRTO_SOURCEALET	1C	
UNIC_TRTO_TABLEADDR	0	
UNIC_TRTO_TABLEALET	10	
UNIC_TRTO_TARGETADDR	4	
UNIC_TRTO_TARGETALET	14	
UNIC_TRTO_TESTCHAR	18	
UNIC_TRTO_WORKAREAADDR	20	
UNIC_TRTO_WORKAREAALET	24	
UNIC_TRTT	0	
UNIC_TRTT_LEN	28	40
UNIC_TRTT_LENGTH	8	
UNIC_TRTT_RC_LENGTHNOTEVEN	0	10
UNIC_TRTT_RC_TABLENOTALIGNED	0	20
UNIC_TRTT_RC_TESTCHARFOUND	0	4
UNIC_TRTT_RC_TESTCHARNOTFOUND	0	0
UNIC_TRTT_RC_WORKAREANOTALIGNED	0	1C
UNIC_TRTT_SOURCEADDR	C	
UNIC_TRTT_SOURCEALET	1C	
UNIC_TRTT_TABLEADDR	0	
UNIC_TRTT_TABLEALET	10	
UNIC_TRTT_TARGETADDR	4	
UNIC_TRTT_TARGETALET	14	
UNIC_TRTT_TESTCHAR	18	
UNIC_TRTT_WORKAREAADDR	20	
UNIC_TRTT_WORKAREAALET	24	
UNIC_UNPKA	0	
UNIC_UNPKA_LEN	20	40
UNIC_UNPKA_RC_BADSIGN	0	C
UNIC_UNPKA_RC_NEGATIVE	0	4
UNIC_UNPKA_RC_POSITIVE	0	0

Table 564. Cross Reference for CSRYUNIC (continued)

Name	Offset	Hex Tag
UNIC_UNPKA_RC_TARGETLENGTHNOTVALID	0	14
UNIC_UNPKA_RC_WORKAREANOTALIGNED	0	1C
UNIC_UNPKA_SOURCEADDR	8	
UNIC_UNPKA_SOURCEALET	14	
UNIC_UNPKA_TARGETADDR	0	
UNIC_UNPKA_TARGETALET	C	
UNIC_UNPKA_TARGETLENMINUSONE	4	
UNIC_UNPKA_WORKAREAADDR	18	
UNIC_UNPKA_WORKAREAALET	1C	
UNIC_UNPKU	0	
UNIC_UNPKU_LEN	20	40
UNIC_UNPKU_RC_BADSIGN	0	C
UNIC_UNPKU_RC_NEGATIVE	0	4
UNIC_UNPKU_RC_POSITIVE	0	0
UNIC_UNPKU_RC_TARGETLENGTHNOTEVEN	0	24
UNIC_UNPKU_RC_TARGETLENGTHNOTVALID	0	14
UNIC_UNPKU_RC_WORKAREANOTALIGNED	0	1C
UNIC_UNPKU_SOURCEADDR	8	
UNIC_UNPKU_SOURCEALET	14	
UNIC_UNPKU_TARGETADDR	0	
UNIC_UNPKU_TARGETALET	C	
UNIC_UNPKU_TARGETLENMINUSONE	4	
UNIC_UNPKU_WORKAREAADDR	18	
UNIC_UNPKU_WORKAREAALET	1C	
UNIC_WORKAREA_LEN	0	100

Chapter 130. CSVAPFAA Information

CSVAPFAA Programming Interface Information

CSVAPFAA is a programming interface.

CSVAPFAA Heading Information

Common Name:	APF List Answer Area
Macro ID:	CSVAPFAA
DSECT Name:	APFHDR, APFE
Owning Component:	Contents Supervision (SC1CJ)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: User-supplied Key: User-supplied Residency: User-supplied
Size:	Variable (One APFHDR per request plus one APFE for each entry returned) APFHDR -- X'0010' bytes APFE -- X'0038' bytes
Created by:	Created by user and passed as parameter on ANSAREA keyword on CSVAPF LIST
Pointed to by:	CSVAPF parameter list
Serialization:	None required
Function:	Maps the data returned by the CSVAPF macro, LIST request

CSVAPFAA mapping

Table 565. Structure APFHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	APFHDR	Header section
0	(0)	SIGNED	4	APFH#REC	Number of APFE entries which follow
4	(4)	SIGNED	4	APFH#REM	Number of APFE entries which were not returned because of insufficient space
8	(8)	SIGNED	4	APFHTLEN	Total length of answer area needed to contain all the requested information. This includes the area for the records that were returned on this call.
12	(C)	SIGNED	4	APFHOFF	Offset from APFHDR to first APFE
12	(C)	X'10'	0	APFHDR_LEN	"*-APFHDR"

Table 566. Structure APFE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	APFE	APFE Record data format

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Table 566. Structure APFE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	SIGNED	2	APFELEN	Length of APFE record. Use this length to get to the next entry.
2	(2)	BITSTRING	1	APFEDSLEN	Length of dataset name through last non-blank character
3	(3)	BITSTRING	1	APFEFLAGS(0)	Flags
		1...		APFESMS	"X'80'" Dataset is SMS-managed
		...1		APFEZ1	"X'10'" Reserved
4	(4)	CHARACTER	6	APFEVOLUME	Volume ID
10	(A)	CHARACTER	44	APFEDSNAME	Dataset name
54	(36)	CHARACTER	2		Reserved
Format constants returned for CSVAPF REQUEST(QUERYFORMAT)					
54	(36)	X'0'	0	CSVAPFFORMATSTATIC	"0" Format is static
54	(36)	X'1'	0	CSVAPFFORMATDYNAMIC	"1" Format is dynamic
Return Code / Reason code constants from CSVAPF. It is guaranteed that no reason code will be reused (i.e., the same reason code will not be used for more than one return code). Also note carefully that bits 0-15 of the reason code may contain component-diagnostic data and must not be assumed to be 0.					
54	(36)	BITSTRING	0	CSVAPFRSNCODEMASK	"X'0000FFFF'" Use this mask to isolate the non component-diagnostic portion of the reason code.
54	(36)	X'0'	0	CSVAPFRC_OK	"0" Return code 0, success
54	(36)	X'4'	0	CSVAPFRC_WARN	"4" Return code 4, warning
Reason codes for RC=4					
54	(36)	BITSTRING	0	CSVAPFRSNALREADYINLIST	"X'00000401'"
54	(36)	BITSTRING	0	CSVAPFRSNINLISTSMSMANAGED	"X'00000401'"
54	(36)	BITSTRING	0	CSVAPFRSNNOTINLIST	"X'00000402'"
54	(36)	BITSTRING	0	CSVAPFRSNNOTALLDATARETURNED	"X'00000403'"
54	(36)	X'8'	0	CSVAPFRC_INVPARM	"8" Return code 8, invalid parameter
Reason codes for RC=8					
54	(36)	BITSTRING	0	CSVAPFRSNBADPARMLIST	"X'00000801'"
54	(36)	BITSTRING	0	CSVAPFRSNSRBMODE	"X'00000802'"
54	(36)	BITSTRING	0	CSVAPFRSNNOTENABLED	"X'00000803'"
54	(36)	BITSTRING	0	CSVAPFRSNNOTAUTHORIZED	"X'00000804'"
54	(36)	BITSTRING	0	CSVAPFRSNHOMENOTPRIMARY	"X'00000805'"
54	(36)	BITSTRING	0	CSVAPFRSNBADANSAREAALET	"X'00000806'"
54	(36)	BITSTRING	0	CSVAPFRSNBADANSAREA	"X'00000807'"
54	(36)	BITSTRING	0	CSVAPFRSNBADANSLEN	"X'00000808'"
54	(36)	BITSTRING	0	CSVAPFRSNBADREQUESTTYPE	"X'00000809'"
54	(36)	BITSTRING	0	CSVAPFRSNBADESTAE	"X'0000080A'"
54	(36)	BITSTRING	0	CSVAPFRSNRESERVEDNOT0	"X'0000080B'"
54	(36)	BITSTRING	0	CSVAPFRSNBADDSNAME	"X'0000080C'"
54	(36)	BITSTRING	0	CSVAPFRSNBADPARMLISTALET	"X'0000080D'"
54	(36)	BITSTRING	0	CSVAPFRSNBADVERSION	"X'0000080E'"
54	(36)	BITSTRING	0	CSVAPFRSNLOCKED	"X'0000080F'"

Table 566. Structure APFE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
54	(36)	X'C'	0	CSVAPFRC_ENV	"12" Return code 12, environmental error
Reason codes for RC=12					
54	(36)	BITSTRING	0	CSVAPFRSNFUNCTIONNOTAVAILABLE	"X'00000C01'"
54	(36)	BITSTRING	0	CSVAPFRSNWRONGDFPLEVEL	"X'00000C02'" DFSMS/MVS 1.1 is not installed.
54	(36)	BITSTRING	0	CSVAPFRSNWRONGDFSMSLEVEL	"X'00000C02'" DFSMS/MVS 1.1 is not installed.
54	(36)	X'10'	0	CSVAPFRC_COMPERROR	"16" Unknown, unexpected error
Reason codes for RC=16					
54	(36)	BITSTRING	0	CSVAPFRSNCOMPERROR	"X'00001001'"
54	(36)	X'38'	0	APFE_LEN	"*-APFE"

Table 567. Cross Reference for CSVAPFAA

Name	Offset	Hex Tag
APFE	0	
APFE_LEN	36	38
APFEDSLEN	2	
APFEDSNAME	A	
APFEFLAGS	3	
APFELEN	0	
APFESMS	3	80
APFEVOLUME	4	
APFEZ1	3	10
APFH#REC	0	
APFH#REM	4	
APFHDR	0	
APFHDR_LEN	C	10
APFHOFF	C	
APFHTLEN	8	
CSVAPFFORMATDYNAMIC	36	1
CSVAPFFORMATSTATIC	36	0
CSVAPFRC_COMPERROR	36	10
CSVAPFRC_ENV	36	C
CSVAPFRC_INVPARM	36	8
CSVAPFRC_OK	36	0
CSVAPFRC_WARN	36	4
CSVAPFRSNALREADYINLIST	36	401
CSVAPFRSNBADANSAREA	36	807
CSVAPFRSNBADANSAREAALET	36	806
CSVAPFRSNBADANSLEN	36	808
CSVAPFRSNBADDSNAME	36	80C
CSVAPFRSNBADESTAE	36	80A
CSVAPFRSNBADPARMLIST	36	801
CSVAPFRSNBADPARMLISTALET	36	80D
CSVAPFRSNBADREQUESTTYPE	36	809

Table 567. Cross Reference for CSVAPFAA (continued)

Name	Offset	Hex Tag
CSVAPFRSNBADVERSION	36	80E
CSVAPFRSNCODEMASK	36	FFFF
CSVAPFRSNCOMPERROR	36	1001
CSVAPFRSNFUNCTIONNOTAVAILABLE	36	C01
CSVAPFRSNHOMENOTPRIMARY	36	805
CSVAPFRSNINLISTSMSMANAGED	36	401
CSVAPFRSNLOCKED	36	80F
CSVAPFRSNNOTALLDATARETURNED	36	403
CSVAPFRSNNOTAUTHORIZED	36	804
CSVAPFRSNNOTENABLED	36	803
CSVAPFRSNNOTINLIST	36	402
CSVAPFRSNRESERVEDNOT0	36	80B
CSVAPFRSNSRBMODE	36	802
CSVAPFRSNWRONGDFPLEVEL	36	C02
CSVAPFRSNWRONGDFSMSLEVEL	36	C02

Chapter 131. CSVDLAA Information

CSVDLAA Programming Interface Information

CSVDLAA is a programming interface.

CSVDLAA Heading Information

Common Name:	Dynamic Lnklst Answer Area
Macro ID:	CSVDLAA
DSECT Name:	DLAAHDR DLAALS DLAADS DLAAU DLAAJA
Owning Component:	Contents Supervision (SC1CJ)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: Caller-supplied Key: Caller-supplied Residency: Caller-supplied
Size:	Variable DLAAHDR -- X'0010' bytes DLAALS -- X'002C' bytes DLAADS -- X'003C' bytes DLAAU -- X'0010' bytes DLAAJA -- X'0020' bytes
Created by:	Caller and passed as parameter on ANSAREA keyword on CSVDYNL LIST
Pointed to by:	CSVDYNL parameter list
Serialization:	None required
Function:	Maps the data returned by the CSVDYNL macro, LIST request. The returned information consists of a header (DLAAHDR) which indicates how many LNKLST set entries (DLAALS), or jobname/asid entries (DLAAJA) entries, follow. If you request Search=BYNAME you get DLAALS entries. DLAAHFIRSTLSADDR is a pointer to the first DLAALS, and each DLAALS points to the next (DLAALSNEXTADDR). The count provided in header field DLAAH#LS should be used to determine the number of exit entries to examine. Each DLAALS indicates how many data set entries (DLAADS) and user entries (DLAAU) are associated with it. DLAALSFIRSTDSADDR is a pointer to the first DLAADS, and each DLAADS points to the next (DLAADSNEXTADDR). The count provided in LNKLST set entry field DLAALS#DS should be used to determine the number of data set entries to examine. DLAALSFIRSTUADDR is a pointer to the first DLAAU, and each DLAAU points to the next (DLAAUNEXTADDR). The count provided in LNKLST set entry field DLAALS#U should be used to determine the number of data set entries to examine. If you request Search=BYJOBASID you get DLAAJS entries. DLAAHFIRSTJAADDR is a pointer to the first DLAAJA, and each DLAAJA points to the next (DLAAJANEXTADDR). The count provided in header field DLAAH#JA should be used to determine the number of exit entries to examine.

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CSVDLAA mapping

Table 568. Structure DLAAHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DLAAHDR	Header section
0	(0)	SIGNED	4	DLAAH#LS	Number of DLAALS entries which follow
0	(0)	SIGNED	4	DLAAH#JA	Number of DLAAJA entries which follow, when ByAsidJobname is requested
4	(4)	SIGNED	4	DLAAH#REM	Number of DLAALS or DLAAJA entries which were not returned because of insufficient space
8	(8)	SIGNED	4	DLAAHTLEN	Total length of answer area needed to contain all the requested information. This includes the area for the records that were returned on this call.
12	(C)	ADDRESS	4	DLAAHFIRSTLSADDR	Address of first DLAALS
12	(C)	ADDRESS	4	DLAAHFIRSTLS@	Same as FIRSTLSADDR
12	(C)	ADDRESS	4	DLAAHFIRSTJAADDR	Address of first DLAAJA
12	(C)	ADDRESS	4	DLAAHFIRSTJA@	Same as FIRSTJAADDR
12	(C)	X'10'	0	DLAAHDR_LEN	"*-DLAAHDR"

Table 569. Structure DLAALS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DLAALS	DLAALS Record data format
0	(0)	ADDRESS	4	DLAALSNEXTADDR	Address of next DLAALS. DLAAH#LS must be used to determine how far along this chain to go.
0	(0)	ADDRESS	4	DLAALSNEXT@	Same as NEXTADDR
4	(4)	ADDRESS	4	DLAALSFIRSTDSADDR	Address of first DLAADS for this DLAALS
4	(4)	ADDRESS	4	DLAALSFIRSTDS@	Same as FirstDSADDR
8	(8)	ADDRESS	4	DLAALSFIRSTUADDR	Address of first DLAAU for this DLAALS
8	(8)	ADDRESS	4	DLAALSFIRSTU@	Same as FirstUADDR
12	(C)	CHARACTER	16	DLAALSNAME	Name of LNKLST set
28	(1C)	BITSTRING	1	DLAALSFLAGS	Flags
Bit definitions:					
		1...		DLAALSCURRENT	"X'80'" This is the current LNKLST
		.1..		DLAALSWASCURRENT	"X'40'" This used to be a current LNKLST and is still in use
		..1.		DLAALSINUSEBYLLA	"X'20'" LLA is monitoring the LNKLST using this LNKLST set
29	(1D)	CHARACTER	3		UNUSED

Table 569. Structure DLAALS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	SIGNED	4	DLAALSLNKLSTSEQ#	The Seq# of this LNKLST set. Only valid when this LNKLST set is active. The Seq# remains unchanged when an in-use LNKLST set is activated. A larger Seq# does not necessarily indicate a more current activation.
36	(24)	CHARACTER	4		Unused
40	(28)	SIGNED	2	DLAALS#DS	Number of DLAADS entries associated with this LNKLST set
42	(2A)	SIGNED	2	DLAALS#U	Number of DLAAU entries associated with this LNKLST set
42	(2A)	X'2C'	0	DLAALS_LEN	"*-DLAALS"

Table 570. Structure DLAADS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DLAADS	DLAADS Record data format
0	(0)	ADDRESS	4	DLAADSNEXTADDR	Address of next DLAADS. DLAALS#DS must be used to determine how far along this chain to go.
0	(0)	ADDRESS	4	DLAADSNEXT@	Same as NEXTADDR
4	(4)	BITSTRING	1	DLAADSFLAGS	Flags
Bit definitions:					
		1...		DLAADSAPF	"X'80'" APF-authorized. Represents status as of last allocation
		.1..		DLAADSAPFNOTAVAILABLE	"X'40'" APF status is not available. Either the data set was not successfully allocated, or the LNKLST set itself is not valid.
		..1.		DLAADSSMSMANAGED	"X'20'" The data set is SMS-managed. Represents status as of last allocation.
		...1		DLAADSSMSNOTAVAILABLE	"X'10'" SMS status is not available. Either the data set was not successfully allocated, or the LNKLST set itself is not valid.
5	(5)	CHARACTER	3		UNUSED
8	(8)	CHARACTER	6	DLAADSVOLID	Volume ID. Represents status as of last allocation
14	(E)	SIGNED	2	DLAADSNAMELEN	Length of name
16	(10)	CHARACTER	44	DLAADSNAME	Data set name. It will only occupy as much space as indicated by DlaadsNameLen
16	(10)	X'3C'	0	DLAADS_LEN	"*-DLAADS"

CSVDLAA mapping

Table 571. Structure DLAAU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DLAAU	DLAAU Record data format
0	(0)	ADDRESS	4	DLAAUNEXTADDR	Address of next DLAAU. DLAALS#U must be used to determine how far along this chain to go.
0	(0)	ADDRESS	4	DLAAUNEXT@	Same as NEXTADDR
4	(4)	CHARACTER	8	DLAAUJOBNAME	Job name using this LNKLST set
12	(C)	SIGNED	2	DLAAUASID	ASID of job
14	(E)	CHARACTER	2		UNUSED
14	(E)	X'10'	0	DLAAU_LEN	"*-DLAAU"

Table 572. Structure DLAAJA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DLAAJA	DLAAJA Record data format
0	(0)	ADDRESS	4	DLAAJANEXTADDR	Address of next DLAAJA. DLAALS#JA must be used to determine how far along this chain to go.
0	(0)	ADDRESS	4	DLAAJANEXT@	Same as NEXTADDR
4	(4)	CHARACTER	8	DLAAJAJOBNAME	Job name
12	(C)	SIGNED	2	DLAAJAASID	ASID of job
14	(E)	CHARACTER	2		UNUSED
16	(10)	CHARACTER	16	DLAAJALSNAME	LNKLST set name
		Format constants returned for CSVDYNL REQUEST(QUERYDYN)			
16	(10)	X'0'	0	CSVDYNLDYNNOTAVAILABLE	"0"
16	(10)	X'1'	0	CSVDYNLDYNAVAILABLE	"1"
		Return Code / Reason code constants from CsvDynl. It is guaranteed that no reason code will be reused (i.e., the same reason code will not be used for more than one return code). Also note carefully that bits 0-15 of the reason code may contain component-diagnostic data and must not be assumed to be 0.			
16	(10)	BITSTRING	0	CSVDYNLRSNCODEMASK	"X'0000FFFF'" Use this mask to isolate the non component-diagnostic portion of the reason code.
16	(10)	X'0'	0	CSVDYNLRC_OK	"0" Return code 0, success
16	(10)	X'4'	0	CSVDYNLRC_WARN	"4" Return code 4, warning
		Reason codes for RC=4			
16	(10)	BITSTRING	0	CSVDYNLRSNROUTINENOTFOUND	"X'00000402'" For TEST request, the routine was not found
16	(10)	BITSTRING	0	CSVDYNLRSNNOTALLDATARETURNED	"X'00000403'" For LIST, the provided output area was not large enough to contain all the data.
16	(10)	BITSTRING	0	CSVDYNLRSNNOMATCHINGJOB	"X'00000406'" For UPDATE request, no matching job or ASID was found.
16	(10)	X'8'	0	CSVDYNLRC_INVPARM	"8" Return code 8, invalid parameter

Table 572. Structure DLAAJA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Reason codes for RC=8					
16	(10)	BITSTRING	0	CSVDYNLRSNBADPARMLIST	"X'00000801'" Error while accessing parameter list
16	(10)	BITSTRING	0	CSVDYNLRSNSRBMODE	"X'00000802'" Caller was in SRB mode
16	(10)	BITSTRING	0	CSVDYNLRSNNOTENABLED	"X'00000803'" Caller was not enabled
16	(10)	BITSTRING	0	CSVDYNLRSNNOTAUTHORIZED	"X'00000804'" Caller was not authorized
16	(10)	BITSTRING	0	CSVDYNLRSNHOMENOTPRIMARY	"X'00000805'" HASN ¬= PASN
16	(10)	BITSTRING	0	CSVDYNLRSNBADANSAREAALET	"X'00000806'" ALET of ANSAREA was not acceptable
16	(10)	BITSTRING	0	CSVDYNLRSNBADANSAREA	"X'00000807'" Error while accessing ANSAREA
16	(10)	BITSTRING	0	CSVDYNLRSNBADANSLEN	"X'00000808'" ANSLEN was not at least as long as DLAAHDR mapped by CSVDLAA.
16	(10)	BITSTRING	0	CSVDYNLRSNBADREQUESTTYPE	"X'00000809'" Parameter list contains an incorrect request type. Possible overlay.
16	(10)	BITSTRING	0	CSVDYNLRSNBADESTAEX	"X'0000080A'" ESTAEX recovery could not be established. Possibly the caller had an EUT FRR.
16	(10)	BITSTRING	0	CSVDYNLRSNRESERVEDNOT0	"X'0000080B'" Parameter list contains a non-0 value in a reserved field. Possible overlay.
16	(10)	BITSTRING	0	CSVDYNLRSNBADPARMLISTALET	"X'0000080D'" ALET of parameter list was not acceptable.
16	(10)	BITSTRING	0	CSVDYNLRSNBADVERSION	"X'0000080E'" Parameter list contains an incorrect version number. Possible overlay.
16	(10)	BITSTRING	0	CSVDYNLRSNLOCKED	"X'0000080F'" Caller held a system lock.
16	(10)	BITSTRING	0	CSVDYNLRSNBADDSNAMEAREA	"X'00000815'" Error while accessing area containing DSNAME
16	(10)	BITSTRING	0	CSVDYNLRSNBADAFTERDSNAMEAREA	"X'00000816'" Error while accessing area containing AFTERDSNAME
16	(10)	BITSTRING	0	CSVDYNLRSNBADOPEN	"X'00000818'" Unable to open supplied data set.
16	(10)	BITSTRING	0	CSVDYNLRSNLNKLSTSETNOTFOUND	"X'00000819'" LNKLST set does not exist
16	(10)	BITSTRING	0	CSVDYNLRSNDATASETNOTFOUND	"X'0000081C'" For DELETE, data set was not in the LNKLST set. For ADD, "after" data set was not in the LNKLST set.
16	(10)	BITSTRING	0	CSVDYNLRSNBADDSNAMEALET	"X'00000820'" ALET of area containing DSNAME is not acceptable
16	(10)	BITSTRING	0	CSVDYNLRSNBADAFTERDSNAMEALET	

Table 572. Structure DLAAJA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000821'" ALET of area containing AFTERDSNAME is not acceptable
16	(10)	BITSTRING	0	CSVDYNLRSNBADLNKLSTNAME	"X'00000822'" LNKLST set name begins with blank or hex zero
16	(10)	BITSTRING	0	CSVDYNLRSNBADDSNAME	"X'00000823'" DSNAME begins with blank or hex zero
16	(10)	BITSTRING	0	CSVDYNLRSNBADAFTERDSNAME	"X'00000824'" AFTERDSNAME begins with blank or hex zero
16	(10)	BITSTRING	0	CSVDYNLRSNBADALLOC	"X'00000829'" Unable to allocate requested data set
16	(10)	BITSTRING	0	CSVDYNLRSNFUNCTIONNOTAVAILABLEERROR	"X'0000082B'" Function requested when dynamic allocation is not allowed by the system (or function requested during NIP).
16	(10)	BITSTRING	0	CSVDYNLRSNRESERVEDNAME	"X'00000831'" Reserved name "CURRENT" or "IPL" was used on a DEFINE, ADD, or DELETE request.
16	(10)	BITSTRING	0	CSVDYNLRSNNOJOBASID	"X'00000832'" The job name was blank (or null) and the ASID was 0 for UPDATE or LIST
16	(10)	BITSTRING	0	CSVDYNLRSNADDSYSDSN	"X'00000833'" A request was made to add the LINKLIB, MIGLIB, CSSLIB, LINKLIBE, or MIGLIBE data set, or to add after one of those data sets.
16	(10)	BITSTRING	0	CSVDYNLRSNDELETESYSDSN	"X'00000834'" A request was made to delete the LINKLIB, MIGLIB, CSSLIB, LINKLIBE, or MIGLIBE data set.
16	(10)	BITSTRING	0	CSVDYNLRSNNOCOPYFROM	"X'00000835'" Could not locate the COPYFROM LNKLST set.
16	(10)	BITSTRING	0	CSVDYNLRSNALREADYEXISTS	"X'00000836'" For DEFINE request, LNKLST set already exists. For ADD request, data set was already associated with this LNKLST set.
16	(10)	BITSTRING	0	CSVDYNLRSNNOMODNAME	"X'00000837'" Module name was null
16	(10)	BITSTRING	0	CSVDYNLRSNCONCATFULL	"X'00000839'" Attempt to ADD a data set but the concatenation is full.
16	(10)	BITSTRING	0	CSVDYNLRSNBADPROBDSNAMEAREA	"X'0000083A'" Error while accessing area to contain probdsname
16	(10)	BITSTRING	0	CSVDYNLRSNBADPROBDSNAMEALET	"X'0000083B'" ALET of area to contain PROBDSNAME is not acceptable
16	(10)	BITSTRING	0	CSVDYNLRSNNOTPARTITIONED	"X'0000083C'" The data set is not partitioned.

Table 572. Structure DLAAJA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	BITSTRING	0	CSVDYNLRSNBADVOLID	"X'0000083D'" The provided VolID does not match the one in the catalog.
16	(10)	BITSTRING	0	CSVDYNLRSNMULTIVOLUME	"X'0000083E'" IEFDDSRV's output was not as expected. The data set is multi-volume.
16	(10)	BITSTRING	0	CSVDYNLRSNMISSINGSYSDSN	"X'0000083F'" The LNKLST set being tested does not contain at least one of SYS1.LINKLIB, SYS1.MIGLIB, SYS1.CSSLIB. SYS1.SIEALNKE, and SYS1.SIEAMIGE. This should occur only if you used the SYSLIB statement of PROGxx.
16	(10)	BITSTRING	0	CSVDYNLRSNUNDEFINECURRENT	"X'00000840'" An attempt was made to UNDEFINE the current LNKLST set.
16	(10)	BITSTRING	0	CSVDYNLRSNBADFOUNDDSNAMEAREA	"X'00000841'" Error while accessing area to contain FoundDsname
16	(10)	BITSTRING	0	CSVDYNLRSNBADFOUNDDSNAMEALET	"X'00000842'" ALET of area to contain FoundDsname is not acceptable
16	(10)	BITSTRING	0	CSVDYNLRSNBADSMS	"X'00000843'" The SMS status of the data set has changed. Either it is now SMS-managed but had not been, or it is not SMS-managed but had been.
16	(10)	X'C'	0	CSVDYNLRC_ENV	"12" Return code 12, environmental error
Reason codes for RC=12					
16	(10)	BITSTRING	0	CSVDYNLRSNFUNCTIONNOTAVAILABLE	"X'00000C01'"
16	(10)	BITSTRING	0	CSVDYNLRSNNOSTORAGE	"X'00000C02'" Storage was not available for a system control block
16	(10)	BITSTRING	0	CSVDYNLRSNCHANGEINUSE	"X'00000C03'" An attempt was made to change (ADD or DELETE) an in-use LNKLST set.
16	(10)	BITSTRING	0	CSVDYNLRSNUNDEFINEUSERS	"X'00000C04'" An attempt was made to UNDEFINE a LNKLST set that is still in use. The request is denied.
16	(10)	BITSTRING	0	CSVDYNLRSNUNDEFINELLA	"X'00000C06'" An attempt was made to UNDEFINE a LNKLST set that is being used by LLA to manage the LNKLST. The request is denied.
16	(10)	BITSTRING	0	CSVDYNLRSNBADIEFDDSRV	"X'00000C07'" Bad return code from IEFDDSRV. 050201
16	(10)	X'10'	0	CSVDYNLRC_COMPERROR	"16" Unknown, unexpected error
Reason codes for RC=16					

Table 572. Structure DLAAJA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	BITSTRING	0	CSVDYNLRSNCOMPERROR	"X'00001001'" System error encountered by component.
16	(10)	X'20'	0	DLAAJA_LEN	"*-DLAAJA"

Table 573. Cross Reference for CSVDLAA

Name	Offset	Hex Tag
CSVDYNLDYNAVAILABLE	10	1
CSVDYNLDYNNOTAVAILABLE	10	0
CSVDYNLRC_COMPERROR	10	10
CSVDYNLRC_ENV	10	C
CSVDYNLRC_INVPARM	10	8
CSVDYNLRC_OK	10	0
CSVDYNLRC_WARN	10	4
CSVDYNLRSNADDSYSDSN	10	833
CSVDYNLRSNALREADYEXISTS	10	836
CSVDYNLRSNBADAFTERDSNAME	10	824
CSVDYNLRSNBADAFTERDSNAMEALET	10	821
CSVDYNLRSNBADAFTERDSNAMEAREA	10	816
CSVDYNLRSNBADALLOC	10	829
CSVDYNLRSNBADANSAREA	10	807
CSVDYNLRSNBADANSAREAALET	10	806
CSVDYNLRSNBADANSLEN	10	808
CSVDYNLRSNBADDSNAME	10	823
CSVDYNLRSNBADDSNAMEALET	10	820
CSVDYNLRSNBADDSNAMEAREA	10	815
CSVDYNLRSNBADESTAEX	10	80A
CSVDYNLRSNBADFOUNDDSNAMEALET	10	842
CSVDYNLRSNBADFOUNDDSNAMEAREA	10	841
CSVDYNLRSNBADIEFDDSRV	10	C07
CSVDYNLRSNBADLNKLSTNAME	10	822
CSVDYNLRSNBADOPEN	10	818
CSVDYNLRSNBADPARMLIST	10	801
CSVDYNLRSNBADPARMLISTALET	10	80D
CSVDYNLRSNBADPROBDSNAMEALET	10	83B
CSVDYNLRSNBADPROBDSNAMEAREA	10	83A
CSVDYNLRSNBADREQUESTTYPE	10	809
CSVDYNLRSNBADSMS	10	843
CSVDYNLRSNBADVERSION	10	80E
CSVDYNLRSNBADVOLID	10	83D
CSVDYNLRSNCHANGEINUSE	10	C03
CSVDYNLRSNCODEMASK	10	FFFF
CSVDYNLRSNCOMPERROR	10	1001
CSVDYNLRSNCONCATFULL	10	839
CSVDYNLRSNDATASETNOTFOUND	10	81C
CSVDYNLRSNDELETESYSDSN	10	834
CSVDYNLRSNFUNCTIONNOTAVAILABLE	10	C01
CSVDYNLRSNFUNCTIONNOTAVAILABLEERROR	10	82B
CSVDYNLRSNHOMENOTPRIMARY	10	805

Table 573. Cross Reference for CSVDLAA (continued)

Name	Offset	Hex Tag
CSVDYNLRSNLNKLSTSETNOTFOUND	10	819
CSVDYNLRSNLOCKED	10	80F
CSVDYNLRSNMISSINGSYSDSN	10	83F
CSVDYNLRSNMULTIVOLUME	10	83E
CSVDYNLRSNNOCOPYFROM	10	835
CSVDYNLRSNNOJOBASID	10	832
CSVDYNLRSNNOMATCHINGJOB	10	406
CSVDYNLRSNNOMODNAME	10	837
CSVDYNLRSNNOSTORAGE	10	C02
CSVDYNLRSNNOTALLDATARETURNED	10	403
CSVDYNLRSNNOTAUTHORIZED	10	804
CSVDYNLRSNNOTENABLED	10	803
CSVDYNLRSNNOTPARTITIONED	10	83C
CSVDYNLRSNRESERVEDNAME	10	831
CSVDYNLRSNRESERVEDNOT0	10	80B
CSVDYNLRSNROUTINENOTFOUND	10	402
CSVDYNLRSNSRBMODE	10	802
CSVDYNLRSNUNDEFINECURRENT	10	840
CSVDYNLRSNUNDEFINELLA	10	C06
CSVDYNLRSNUNDEFINEUSERS	10	C04
DLAADS	0	
DLAADS_LEN	10	3C
DLAADSAPF	4	80
DLAADSAPFNOTAVAILABLE	4	40
DLAADSFLAGS	4	
DLAADSNAME	10	
DLAADSNAMELEN	E	
DLAADSNEXT@	0	
DLAADSNEXTADDR	0	
DLAADSSMSMANAGED	4	20
DLAADSSMSNOTAVAILABLE	4	10
DLAADSVOLID	8	
DLAAH#JA	0	
DLAAH#LS	0	
DLAAH#REM	4	
DLAAHDR	0	
DLAAHDR_LEN	C	10
DLAAHFIRSTJA@	C	
DLAAHFIRSTJAADDR	C	
DLAAHFIRSTLS@	C	
DLAAHFIRSTLSADDR	C	
DLAAHTLEN	8	
DLAAJA	0	
DLAAJA_LEN	10	20
DLAAJAASID	C	
DLAAJAJOBNAME	4	
DLAAJALSNAME	10	
DLAAJANEXT@	0	
DLAAJANEXTADDR	0	

Table 573. Cross Reference for CSVDLAA (continued)

Name	Offset	Hex Tag
DLAALS	0	
DLAALS_LEN	2A	2C
DLAALS#DS	28	
DLAALS#U	2A	
DLAALSCURRENT	1C	80
DLAALSFIRSTDS@	4	
DLAALSFIRSTDSADDR	4	
DLAALSFIRSTU@	8	
DLAALSFIRSTUADDR	8	
DLAALSFLAGS	1C	
DLAALSINUSEBYLLA	1C	20
DLAALSLNKLSTSEQ#	20	
DLAALSNAME	C	
DLAALSNEXT@	0	
DLAALSNEXTADDR	0	
DLAALSWASCURRENT	1C	40
DLAAU	0	
DLAAU_LEN	E	10
DLAAUASID	C	
DLAAUJOBNAME	4	
DLAAUNEXT@	0	
DLAAUNEXTADDR	0	

Chapter 132. CSVDLCB Information

CSVDLCB Programming Interface Information

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

- DLCBDCB@
- DLCBLLT@
- DLCBLNKLSTSETNAME

CSVDLCB Heading Information

Common Name:	Dynamic LNKLST Control Block
Macro ID:	CSVDLCB
DSECT Name:	DLCB
Owning Component:	Contents Supervision (SC1CJ)
Eye-Catcher ID:	DLCB Offset: 0 Length: 4
Storage Attributes:	Subpool: 245 Key: 0 Residency: Above-16M
Size:	One per LNKLST set created DLCB -- X'0044' bytes
Created by:	Created by system in response to CSVDYNL REQUEST=DEFINE
Pointed to by:	ASSBDLCB
Serialization:	ENQ Qname: SYSZCSV Rname: CSVDYNL No serialization is needed to access the DLCB pointed to by ASSBDLCB of the home address space.
Function:	Maps the area representing a LNKLST set.

CSVDLCB mapping

Table 574. Structure DLCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DLCB	
0	(0)	CHARACTER	12	DLCBNONINTERFACE1	Not part of the intended interface
0	(0)	CHARACTER	4	DLCBID	Acronym
12	(C)	ADDRESS	4	DLCBDCB@	This is a TOKEN that can be passed via the DCB parameter to such services as LINK and LOAD to indicate that the module search should use this particular LNKLST set. It is valid only if this DLCB is the LNKLST set pointed to by ASSBDLCB.
16	(10)	ADDRESS	4	DLCBLLT@	Address of LLT for this LNKLST. Not valid unless this is an active DLCB

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Table 574. Structure DLCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	CHARACTER	16	DLCBNONINTERFACE2	Not part of the intended interface
36	(24)	CHARACTER	16	DLCBLNKLSTSETNAME	LNKLST set name
52	(34)	CHARACTER	16	DLCBNONINTERFACE3	Not part of the intended interface
52	(34)	X'44'	0	DLCB_LEN	"*-DLCB"

Chapter 133. CSVDLENF Information

CSVDLENF Programming Interface Information

CSVDLENF is a programming interface.

CSVDLENF Heading Information

Common Name:	Dynamic Lnklst ENF mapping (event code 52)
Macro ID:	CSVDLENF
DSECT Name:	DLENF
Owning Component:	Contents Supervision (SC1CJ)
Eye-Catcher ID:	DLEN Offset: 0 Length: 4
Storage Attributes:	Subpool: 247 for ENF signal Key: 0 Residency: Above 16M
Size:	DLENF -- X'0080' bytes
Created by:	Dynamic LNKLST processing, and provided to ENF listeners for event 052.
Pointed to by:	R1 on entry to ENF listening routine
Serialization:	None required
Function:	Maps the data provided for ENF event 052.

CSVDLENF mapping

Table 575. Structure DLENF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DLENF	Dynamic LNKLST Event Notification Parameter List
0	(0)	CHARACTER	4	DLENFID	Eyecatcher 'DLEN'
4	(4)	CHARACTER	5	DLENFCOMPONENT	Component acronym 'SC1CJ'
9	(9)	CHARACTER	3		Unused
12	(C)	SIGNED	4	DLENFLNKLSTSEQ#	Seq# of the LNKLST set. Note that the number always increases when a new LNKLST set, or a not-in-use old LNKLST set, is activated. But if an in-use LNKLST set is activated, the number of that LNKLST set does not change. That means that on an activation, the LNKLST sequence number does change from what it was (ignoring the the uninteresting case where you activate the current LNKLST set, which is effectively a no-op), but does not necessarily increase.

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Table 575. Structure DLENF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	CHARACTER	16	DLENFLNKLSTNAME	Name of the LNKLST set that was just activated
32	(20)	CHARACTER	8	DLENFTIMESTAMP	Time value (from STCK) of the activation
40	(28)	SIGNED	4	DLENFCONSID	Console ID of the issuer of the activation
44	(2C)	CHARACTER	80	DLENFUTOKEN	Security product user token of issuer of the activation
124	(7C)	CHARACTER	4		Unused
124	(7C)	X'D3C5D5'	0	DLENFIDCHARS	"C'DLEN'" Eyecatcher
124	(7C)	X'80'	0	DLENF_LEN	"*-DLENF"

Table 576. Cross Reference for CSVDLENF

Name	Offset	Hex Tag
DLENF	0	
DLENF_LEN	7C	80
DLENFCOMPONENT	4	
DLENFCONSID	28	
DLENFID	0	
DLENFIDCHARS	7C	D3C5D5
DLENFLNKLSTNAME	10	
DLENFLNKLSTSEQ#	C	
DLENFTIMESTAMP	20	
DLENFUTOKEN	2C	

Chapter 134. CSVEXAA Information

CSVEXAA Programming Interface Information

CSVEXAA is a programming interface.

CSVEXAA Heading Information

Common Name: Exit Answer Area
Macro ID: CSVEXAA
DSECT Name: EXAAHDR EXAAE EXAAM EXAAM1 EXAAM2 EXAAM3
Owning Component: Contents Supervision (SC1CJ)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: Caller-supplied
Key: Caller-supplied
Residency: Caller-supplied
Size: Variable
EXAAHDR -- X'0010' bytes
EXAAE -- X'0028' bytes
EXAAM -- X'0018' bytes
EXAAM1 -- X'0024' bytes
EXAAM2 -- X'0034' bytes
EXAAM3 -- X'003C' bytes
Created by: Caller and passed as parameter on ANSAREA keyword on CSVDYNEX LIST
Pointed to by: CSVDYNEX parameter list
Serialization: None required
Function: Maps the data returned by the CSVDYNEX macro, LIST request. The returned information consists of a header (EXAAHDR) which indicates how many exit entries (EXAAE) follow. EXAAHFIRST@ is a pointer to the first EXAAE, and each EXAAE points to the next (EXAAENEXT@). The count provided in header field EXAAH#REC should be used to determine the number of exit entries to examine.
The caller indicates, via the ExaaVer keyword, whether module entries are mapped by EXAAM (the default, ExaaVer=0), EXAAM1 (ExaaVer=1), EXAAM2 (ExaaVer=2), EXAAM3 (Exaaver=3) Each EXAAE indicates how many module entries (EXAAM / EXAAM1 / EXAAM2 / EXAAM3) are associated with it. EXAAEFIRSTENT@ is a pointer to the first EXAAM/EXAAM1/EXAAM2/EXAAM3, and each EXAAM/EXAAM1/EXAAM2/EXAAM3 points to the next (EXAAMNEXT@/EXAAM1NEXT@/EXAAM2NEXT@/ EXAAM3NEXT@). The count provided in exit entry field EXAAE#ENT should be used to determine the number of module entries to examine.

CSVEXAA mapping

Table 577. Structure EXAAHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EXAAHDR	Header section

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Table 577. Structure EXAAHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	SIGNED	4	EXAAH#REC	Number of EXAAE entries which follow
4	(4)	SIGNED	4	EXAAH#REM	Number of EXAAE entries which were not returned because of insufficient space
8	(8)	SIGNED	4	EXAAHTLEN	Total length of answer area needed to contain all the requested information. This includes the area for the records that were returned on this call.
12	(C)	ADDRESS	4	EXAAHFIRST@	Address of first EXAAE
12	(C)	X'10'	0	EXAAHDR_LEN	"*-EXAAHDR"

Table 578. Structure EXAAE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EXAAE	EXAAE Record data format
0	(0)	ADDRESS	4	EXAAENEXT@	Address of next EXAAE. EXAAH#REC must be used to determine how far along this chain to go.
4	(4)	ADDRESS	4	EXAAEFIRSTENT@	Address of first EXAAM / EXAAM1 / EXAAM2 / EXAAM3 for this EXAAE
8	(8)	CHARACTER	16	EXAAENAME	Name of exit
24	(18)	SIGNED	2	EXAAE#ENT	Number of EXAAM/EXAAM1/EXAAM2/ EXAAM3 entries associated with this exit
26	(1A)	BITSTRING	1	EXAAEAMODE	Amode: 0 = Amode 31, 1 = Amode 24, 2 = Amode Defined. Equates are provided below. They begin with EXAAEAMODE_
27	(1B)	BITSTRING	1	EXAAEKEY	Defined Key
28	(1C)	BITSTRING	1	EXAAEFLAGS	
Bit definitions:					
		1...		EXAAEFASTPATHOK	"X'80'" Fast path acceptable for this
		.1..		EXAAEDEFINED	"X'40'" Whether exit has been explicitly defined or simply has had modules added to it
		..1.		EXAAEREENTRANTREQUIRED	"X'20'" Reentrant was required for this exit
		...1		EXAAEONEMODULEONLY	"X'10'" This exit is defined to allow only one module to be associated with it at a time.
		.... 1...		EXAAEABENDCONSEC	"X'08'" Whether or not the exit requested consecutive abends
		.... .1..		EXAAEANYKEY	"X'04'" Fast path exit supports any key
		.... ..1.		EXAAEEXITTYPEINSTALLATION	"X'02'" This is an installation exit. It is possible that neither this nor the program exit bit is on.

Table 578. Structure EXAAE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		EXAAEEXITTYPEPROGRAM	"X'01'" This is a program exit. It is possible that neither this nor the installation exit bit is on.
29	(1D)	BITSTRING	1	EXAAEFLAGS1	
Bit definitions:					
		1...		EXAAELOADAPFYES	"X'80'" LOADAPF=YES was requested for this exit
		.1..		EXAAEPERSISTJOBSTEPTASK	"X'40'" PERSIST=JOBSTEPTASK was requested for this exit
		..1.		EXAAEPERSISTADDRESSSPACE	"X'20'" PERSIST=ADDRESSSPACE was requested for this exit
		...1		EXAAEPERSISTIPL	"X'10'" PERSIST=IPL was requested for this exit
		.... 1...		EXAAEDISABLEDCALLOK	"X'08'" DISABLEDCALL=OK was requested for this exit
30	(1E)	CHARACTER	2		Reserved
32	(20)	SIGNED	4	EXAAEABENDNUM	Number of abends allowed
36	(24)	ADDRESS	4	EXAAEPRECALLROUTINEADDR	050201
36	(24)	X'0'	0	EXAAEAMODE_31	"0" Value for ExaaeAmode indicating AMODE 31
36	(24)	X'1'	0	EXAAEAMODE_24	"1" Value for ExaaeAmode indicating AMODE 24
36	(24)	X'2'	0	EXAAEAMODE_DEFINED	"2" Value for ExaaeAmode indicating AMODE DEFINED
36	(24)	X'28'	0	EXAAE_LEN	"*-EXAAE"

Table 579. Structure EXAAM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EXAAM	EXAAM Record data format
0	(0)	ADDRESS	4	EXAAMNEXT@	Address of next EXAAM. EXAAE#ENT must be used to determine how far along this chain to go.
4	(4)	CHARACTER	8	EXAAMNAME	Module name
12	(C)	BITSTRING	1	EXAAMFLAGS	
Bit definitions:					
		1...		EXAAMACTIVE	"X'80'" If on, state of module is active
		.1..		EXAAMJOBNAMEPROVIDED	"X'40'" If on, jobname filtering was requested.
		..1.		EXAAMSTOKENPROVIDED	"X'20'" If on, stoken filtering was requested.
13	(D)	CHARACTER	3		Reserved
16	(10)	CHARACTER	8	EXAAMSTOKEN	If ExaamStokenProvided is on, this contains the STOKEN.
16	(10)	CHARACTER	8	EXAAMJOBNAME	If ExaamJobnameProvided is on, this contains the jobname.
16	(10)	X'18'	0	EXAAM_LEN	"*-EXAAM"

Table 580. Structure EXAAM1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EXAAM1	Exaam1 Record data format
0	(0)	ADDRESS	4	EXAAM1NEXT@	Address of next Exaam1. EXAAE#ENT must be used to determine how far along this chain to go.
4	(4)	CHARACTER	8	EXAAM1NAME	Module name
12	(C)	BITSTRING	1	EXAAM1FLAGS	
Bit definitions:					
		1...		EXAAM1ACTIVE	"X'80'" If on, state of module is active
		.1..		EXAAM1JOBNAMEPROVIDED	"X'40'" If on, jobname filtering was requested.
		..1.		EXAAM1STOKENPROVIDED	"X'20'" If on, stoken filtering was requested.
13	(D)	CHARACTER	3		Reserved
16	(10)	CHARACTER	8	EXAAM1STOKEN	If Exaam1StokenProvided is on, this contains the STOKEN.
16	(10)	CHARACTER	8	EXAAM1JOBNAME	If Exaam1JobnameProvided is on, this contains the jobname.
24	(18)	ADDRESS	4	EXAAM1EPADDR	Entry point address of exit module. This was either determined by the system or provided by the issuer of CSVDYNEX REQUEST=ADD via the MODADDR keyword. Bit 0 of this word is on if the module is to be called in 31-bit AMODE.
28	(1C)	ADDRESS	4	EXAAM1LOADPT	Load point of exit module. When 0, the load point is not known. The load point is only known when the module was located by the system from the lnklst or a user-specified data set.
32	(20)	SIGNED	4	EXAAM1MODLEN	The length of the exit routine load module. When 0, no length is known. The length is only known when the module was located by the system from the lnklst or a user-specified data set. Note that this is the length of the load module containing the exit module.
32	(20)	X'24'	0	EXAAM1_LEN	"*-EXAAM1"

Table 581. Structure EXAAM2

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EXAAM2	Exaam2 Record data format
0	(0)	ADDRESS	4	EXAAM2NEXT@	Address of next Exaam2. EXAAE#ENT must be used to determine how far along this chain to go.
4	(4)	CHARACTER	8	EXAAM2NAME	Module name

Table 581. Structure EXAAM2 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	BITSTRING	1	EXAAM2FLAGS	
Bit definitions:					
		1...		EXAAM2ACTIVE	"X'80'" If on, state of module is active
		.1..		EXAAM2JOBNAMEPROVIDED	"X'40'" If on, jobname filtering was requested.
		..1.		EXAAM2STOKENPROVIDED	"X'20'" If on, stoken filtering was requested.
		...1		EXAAM2ABENDCONSEC	"X'10'" If on, consecutive-abend is active for this routine, either because it is active for the whole exit or for this routine
13	(D)	BITSTRING	1	EXAAM2REQUESTEDPOS	The POS requested when the exit routine was added. Values are as defined by CSVDYNEX MF=(L,xxx) with names beginning xxx_xPOS_. Due to subsequent EXIT ADD requests, an exit routine that was added FIRST (or LAST) might not currently be FIRST (or LAST).
14	(E)	CHARACTER	2		Reserved
16	(10)	CHARACTER	8	EXAAM2STOKEN	If Exaam2StokenProvided is on, this contains the STOKEN.
16	(10)	CHARACTER	8	EXAAM2JOBNAME	If Exaam2JobnameProvided is on, this contains the jobname.
24	(18)	ADDRESS	4	EXAAM2EPADDR	Entry point address of exit module. This was either determined by the system or provided by the issuer of CSVDYNEX REQUEST=ADD via the MODADDR keyword. Bit 0 of this word is on if the module is to be called in 31-bit AMODE.
28	(1C)	ADDRESS	4	EXAAM2LOADPT	Load point of exit module. When 0, the load point is not known. The load point is only known when the module was located by the system from the lnklst or a user-specified data set.
32	(20)	SIGNED	4	EXAAM2MODLEN	The length of the exit routine load module. When 0, no length is known. The length is only known when the module was located by the system from the lnklst or a user-specified data set. Note that this is the length of the load module containing the exit module.
36	(24)	CHARACTER	8	EXAAM2PARAM	The parameter associated with the exit routine

Table 581. Structure EXAAM2 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
44	(2C)	SIGNED	4	EXAAM2ABENDNUM	The ABENDNUM parameter associated with the exit routine, or if there is none associated, then the parameter associated with the exit.
48	(30)	SIGNED	4	EXAAM2NUMABENDSLEFT	The number of abends left before the exit routine might be disabled. Initially, or for an AbendConsec exit routine after a call completes without abend, the value is set to the abendnum. The value is decremented on each abend. A value of 1 indicates that disablement will occur on the next abend.
48	(30)	X'34'	0	EXAAM2_LEN	"*-EXAAM2"

Table 582. Structure EXAAM3

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EXAAM3	Exaam3 Record data format
0	(0)	ADDRESS	4	EXAAM3NEXT@	Address of next Exaam3. EXAAE#ENT must be used to determine how far along this chain to go.
4	(4)	CHARACTER	8	EXAAM3NAME	Module name
12	(C)	BITSTRING	1	EXAAM3FLAGS	
Bit definitions:					
		1...		EXAAM3ACTIVE	"X'80'" If on, state of module is active
		.1..		EXAAM3JOBNAMEPROVIDED	"X'40'" If on, jobname filtering was requested.
		..1.		EXAAM3STOKENPROVIDED	"X'20'" If on, stoken filtering was requested.
		...1		EXAAM3ABENDCONSEC	"X'10'" If on, consecutive-abend is active for this routine, either because it is active for the whole exit or for this routine
		.... 1...		EXAAM3SERVICEMASKPROVIDED	"X'08'" If on, a Service Mask was provided
		.... .1..		EXAAM3DELETEFORCEYES	"X'04'" If on, the exit routine was added with DELETEFORCE=YES
13	(D)	BITSTRING	1	EXAAM3REQUESTEDPOS	The POS requested when the exit routine was added. Values are as defined by CSVDYNEX MF=(L,xxx) with names beginning xxx_xPOS_. Due to subsequent EXIT ADD requests, an exit routine that was added FIRST (or LAST) might not currently be FIRST (or LAST).

Table 582. Structure EXAAM3 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
14	(E)	CHARACTER	2		Reserved
16	(10)	CHARACTER	8	EXAAM3STOKEN	If Exaam3StokenProvided is on, this contains the STOKEN.
16	(10)	CHARACTER	8	EXAAM3JOBNAME	If Exaam3JobnameProvided is on, this contains the jobname.
24	(18)	ADDRESS	4	EXAAM3EPADDR	Entry point address of exit module. This was either determined by the system or provided by the issuer of CSVDYNEX REQUEST=ADD via the MODADDR keyword. Bit 0 of this word is on if the module is to be called in 31-bit AMODE.
28	(1C)	ADDRESS	4	EXAAM3LOADPT	Load point of exit module. When 0, the load point is not known. The load point is only known when the module was located by the system from the lnklst or a user-specified data set.
32	(20)	SIGNED	4	EXAAM3MODLEN	The length of the exit routine load module. When 0, no length is known. The length is only known when the module was located by the system from the lnklst or a user-specified data set. Note that this is the length of the load module containing the exit module.
36	(24)	CHARACTER	8	EXAAM3PARAM	The parameter associated with the exit routine
44	(2C)	SIGNED	4	EXAAM3ABENDNUM	The ABENDNUM parameter associated with the exit routine, or if there is none associated, then the parameter associated with the exit.
48	(30)	SIGNED	4	EXAAM3NUMABENDSLEFT	The number of abends left before the exit routine might be disabled. Initially, or for an AbendConsec exit routine after a call completes without abend, the value is set to the abendnum. The value is decremented on each abend. A value of 1 indicates that disablement will occur on the next abend.
52	(34)	CHARACTER	8	EXAAM3SERVICEMASK	A 64-bit mask provided by the exit ADDer that identifies for which calls the exit routine is to get control. This corresponds to the ServiceID mask of the exit CALLer and the exit owner has defined what the bits in the mask mean.
52	(34)	X'3C'	0	EXAAM3_LEN	"*-EXAAM3"

CSVEXAA mapping

Table 583. Cross Reference for CSVEXAA

Name	Offset	Hex Tag
EXAAE	0	
EXAAE_LEN	24	28
EXAAE#ENT	18	
EXAAEABENDCONSEC	1C	8
EXAAEABENDNUM	20	
EXAAEAMODE	1A	
EXAAEAMODE_DEFINED	24	2
EXAAEAMODE_24	24	1
EXAAEAMODE_31	24	0
EXAAEANYKEY	1C	4
EXAAEDEFINED	1C	40
EXAAEDISABLEDCALLOK	1D	8
EXAAEEXITTYPEINSTALLATION	1C	2
EXAAEEXITTYPEPROGRAM	1C	1
EXAAEFASTPATHOK	1C	80
EXAAEFIRSTENT@	4	
EXAAEFLAGS	1C	
EXAAEFLAGS1	1D	
EXAAEKEY	1B	
EXAAELOADAPFYES	1D	80
EXAAENAME	8	
EXAAENEXT@	0	
EXAAEONEMODULEONLY	1C	10
EXAAEPERSISTADDRESSSPACE	1D	20
EXAAEPERSISTIPL	1D	10
EXAAEPERSISTJOBSTEPTASK	1D	40
EXAAEPRECALLROUTINEADDR	24	
EXAAEREENTRANTREQUIRED	1C	20
EXAAH#REC	0	
EXAAH#REM	4	
EXAAHDR	0	
EXAAHDR_LEN	C	10
EXAAHFIRST@	C	
EXAAHTLEN	8	
EXAAM	0	
EXAAM_LEN	10	18
EXAAMACTIVE	C	80
EXAAMFLAGS	C	
EXAAMJOBNAME	10	
EXAAMJOBNAMEPROVIDED	C	40
EXAAMNAME	4	
EXAAMNEXT@	0	
EXAAMSTOKEN	10	
EXAAMSTOKENPROVIDED	C	20
EXAAM1	0	
EXAAM1_LEN	20	24
EXAAM1ACTIVE	C	80
EXAAM1EPADDR	18	
EXAAM1FLAGS	C	

Table 583. Cross Reference for CSVEXAA (continued)

Name	Offset	Hex Tag
EXAAM1JOBNAME	10	
EXAAM1JOBNAMEPROVIDED	C	40
EXAAM1LOADPT	1C	
EXAAM1MODLEN	20	
EXAAM1NAME	4	
EXAAM1NEXT@	0	
EXAAM1STOKEN	10	
EXAAM1STOKENPROVIDED	C	20
EXAAM2	0	
EXAAM2_LEN	30	34
EXAAM2ABENDCONSEC	C	10
EXAAM2ABENDNUM	2C	
EXAAM2ACTIVE	C	80
EXAAM2EPADDR	18	
EXAAM2FLAGS	C	
EXAAM2JOBNAME	10	
EXAAM2JOBNAMEPROVIDED	C	40
EXAAM2LOADPT	1C	
EXAAM2MODLEN	20	
EXAAM2NAME	4	
EXAAM2NEXT@	0	
EXAAM2NUMABENDSLEFT	30	
EXAAM2PARAM	24	
EXAAM2REQUESTEDPOS	D	
EXAAM2STOKEN	10	
EXAAM2STOKENPROVIDED	C	20
EXAAM3	0	
EXAAM3_LEN	34	3C
EXAAM3ABENDCONSEC	C	10
EXAAM3ABENDNUM	2C	
EXAAM3ACTIVE	C	80
EXAAM3DELETEFORCEYES	C	4
EXAAM3EPADDR	18	
EXAAM3FLAGS	C	
EXAAM3JOBNAME	10	
EXAAM3JOBNAMEPROVIDED	C	40
EXAAM3LOADPT	1C	
EXAAM3MODLEN	20	
EXAAM3NAME	4	
EXAAM3NEXT@	0	
EXAAM3NUMABENDSLEFT	30	
EXAAM3PARAM	24	
EXAAM3REQUESTEDPOS	D	
EXAAM3SERVICEMASK	34	
EXAAM3SERVICEMASKPROVIDED	C	8
EXAAM3STOKEN	10	
EXAAM3STOKENPROVIDED	C	20

Chapter 135. CSVEXRET Information

CSVEXRET Programming Interface Information

CSVEXRET is a programming interface.

CSVEXRET Heading Information

Common Name:	Exit Return information area
Macro ID:	CSVEXRET
DSECT Name:	EXRET EXRET1
Owning Component:	Contents Supervision (SC1CJ)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: Caller-supplied Key: Caller-supplied Residency: Caller-supplied
Size:	Variable EXRET -- X'0018' bytes EXRET1 -- X'0020' bytes
Created by:	Caller, passed as parameter on RETINFO keyword on CSVDYNEX REQUEST=CALL or CSVDYNEX REQUEST=RECOVER
Pointed to by:	CSVDYNEX parameter list
Serialization:	None required
Function:	Maps the data returned by the CSVDYNEX macro, CALL or RECOVER request. The caller indicates, via the ExretVer keyword, whether entries are mapped by EXRET (the default, ExretVer=0) or EXRET1 (ExretVer=1). The returned information consists of a header (EXRETHDR/EXRET1HDR) which helps to indicate how many entries (EXRETINFO/EXRET1INFO) follow. Those entries are contiguous (e.g., entry 2 immediately follows entry 1 when more than one entry is returned).

CSVEXRET mapping

Table 584. Structure EXRET

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EXRET	
0	(0)	CHARACTER	8	EXRETHDR	
0	(0)	SIGNED	4	EXRET#RET	Number of modules for which information is returned. When RETINFO=LAST, RETINFO=LOWEST, or RETINFO=HIGHEST is specified, this indicates how many modules were called, since information about only one is returned.
4	(4)	SIGNED	4	EXRET#REM	Number of modules remaining for which information was not returned. This field will be 0 for REQUEST=RECOVER.
8	(8)	CHARACTER	16	EXRETINFO	Return information entry

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Table 584. Structure EXRET (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	BITSTRING	1	EXRETFLAGS	Return flags
Bit definitions:					
		1...		EXRETABEND	"X'80'" Indicates that the called module abended
9	(9)	BITSTRING	1	EXRETRECOVERFLAGS	Output from the RECOVER function. This is not set for the CALL function.
Bit definitions:					
		1...		EXRETRECERRORBEFOREINIT	"X'80'" Error occurred before initialization completed. It is likely that the input WorkArea was not valid.
		.1..		EXRETRECEXITMODINCONTROL	"X'40'" Error occurred within an exit module.
		..1.		EXRETRECACCRUB	"X'20'" Error occurred while accessing RUB area
		...1		EXRETRECACCRETAREA	"X'10'" Error occurred while accessing RetArea
		.... 1...		EXRETRECACCPLIST	"X'08'" Error occurred while accessing parameter list
		.... .1..		EXRETRECPRECALLRTNINCONTROL	"X'04'" Error occurred within the precall routine 050201
10	(A)	CHARACTER	2		Reserved
12	(C)	CHARACTER	12	EXRETREGS	Information from regs
12	(C)	SIGNED	4	EXRETCODE	Return code, if bit ExretAbend is off
12	(C)	SIGNED	4	EXRETABENDCODE	Abend code, if bit ExretAbend is on. Its format matches that of SDWACMPC
16	(10)	SIGNED	4	EXRETRSN	Reason code, if bit ExretAbend is off
16	(10)	SIGNED	4	EXRETABENDRSNCODE	Abend reason code, if bit ExretAbend is on
20	(14)	SIGNED	4	EXRETR1	Return value in R1 from exit, if bit ExretAbend is off
20	(14)	X'18'	0	EXRET_LEN	"*-EXRET"

Table 585. Structure EXRET1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EXRET1	
0	(0)	CHARACTER	8	EXRET1HDR	
0	(0)	SIGNED	4	EXRET1#RET	Number of modules for which information is returned. When RETINFO=LAST, RETINFO=LOWEST, or RETINFO=HIGHEST is specified, this indicates how many modules were called, since information about only one is returned.

Table 585. Structure EXRET1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	SIGNED	4	EXRET1#REM	Number of modules remaining for which information was not returned. This field will be 0 for REQUEST=RECOVER.
8	(8)	CHARACTER	24	EXRET1INFO	Return information entry
8	(8)	BITSTRING	1	EXRET1FLAGS	Return flags
Bit definitions:					
		1...		EXRET1ABEND	"X'80'" Indicates that the called module abended
9	(9)	BITSTRING	1	EXRET1RECOVERFLAGS	Output from the RECOVER function. This is not set for the CALL function.
Bit definitions:					
		1...		EXRET1RECERRORBEFOREINIT	"X'80'" Error occurred before initialization completed. It is likely that the input WorkArea was not valid.
		.1..		EXRET1RECEXITMODINCONTROL	"X'40'" Error occurred within an exit module.
		..1.		EXRET1RECACCRUB	"X'20'" Error occurred while accessing RUB area
		...1		EXRET1RECACCRETAREA	"X'10'" Error occurred while accessing RetArea
		.... 1...		EXRET1RECACCPLIST	"X'08'" Error occurred while accessing parameter list
		.... .1..		EXRET1RECPRECALLRTNINCONTROL	"X'04'" Error occurred within the precall routine 050201
10	(A)	CHARACTER	2		Reserved
12	(C)	CHARACTER	12	EXRET1REGS	Information from regs
12	(C)	SIGNED	4	EXRET1CODE	Return code, if bit ExRet1Abend is off
12	(C)	SIGNED	4	EXRET1ABENDCODE	Abend code, if bit ExRet1Abend is on. Its format matches that of SDWACMPC
16	(10)	SIGNED	4	EXRET1RSN	Reason code, if bit ExRet1Abend is off
16	(10)	SIGNED	4	EXRET1ABENDRSNCODE	Abend reason code, if bit ExRet1Abend is on
20	(14)	SIGNED	4	EXRET1R1	Return value in R1 from exit, if bit ExRet1Abend is off
24	(18)	CHARACTER	8	EXRET1MODNAME	Name of the exit routine when 1st word not all 0's 050201
24	(18)	CHARACTER	4	EXRET1PRECALLINDICATOR	When all 0's, the next word contains the address of the precall routine, and the precall routine was in control 050201
28	(1C)	ADDRESS	4	EXRET1PRECALLROUTINEADDR	The address of the precall routine 050201
General constants for CSVDYNEX					

Table 585. Structure EXRET1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	X'0'	0	CSVDYNEX_PRECALL_CALL	"0" Return code from the precall routine indicating to call the exit routine 050201
28	(1C)	X'8'	0	CSVDYNEX_PRECALL_NOCALL	"8" Return code from the precall routine indicating not to call the exit routine 050201
Return Code / Reason code constants for CSVDYNEX It is guaranteed that no reason code will be reused (i.e., the same reason code will not be used for more than one return code). Also note carefully that bits 0-15 of the reason code may contain component-diagnostic data and must not be assumed to be 0.					
28	(1C)	BITSTRING	0	CSVDYNEXRSNCODEMASK	"X'0000FFFF'" Use this mask to isolate the non component-diagnostic portion of the reason code.
28	(1C)	X'0'	0	CSVDYNEXRC_OK	"0" Return code 0, success
28	(1C)	X'4'	0	CSVDYNEXRC_WARN	"4" Return code 4, warning
Reason codes for RC=4					
28	(1C)	BITSTRING	0	CSVDYNEXRSNALREADYEXISTS	"X'00000401'" The exit or module already exists
28	(1C)	BITSTRING	0	CSVDYNEXRSNDOESNOTEXIST	"X'00000402'" The module or exit does not exist.
28	(1C)	BITSTRING	0	CSVDYNEXRSNNOTALLDATARETURNED	"X'00000403'" For LIST, the provided output area was not large enough to contain all the data.
28	(1C)	BITSTRING	0	CSVDYNEXRSNNOMODULES	"X'00000406'" For CALL or QUERY no modules were associated with the exit.
28	(1C)	BITSTRING	0	CSVDYNEXRSNMOREMODULES	"X'00000407'" For CALL, there are more modules to be called for this exit. The call process stopped because the return area was not large enough to contain data for all the modules.
28	(1C)	BITSTRING	0	CSVDYNEXRSNUSERKEYDELETENOFORCE	"X'00000408'" User Key FastPath module (or AnyKey FastPath module) delete was specified without FORCE=YES. Exit has been deactivated but storage has not been freed.
28	(1C)	BITSTRING	0	CSVDYNEXRSNQUERYNOTFOUND	"X'00000409'" For REQUEST=QUERY, the exit name was not found.
28	(1C)	BITSTRING	0	CSVDYNEXRSNIMPLICITLYDEFINED	"X'0000040A'" For REQUEST=QUERY, the exit was implicitly defined by virtue of having either its attributes set or modules added to it.

Table 585. Structure EXRET1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	X'8'	0	CSVDYNEXRC_INVPARM	"8" Return code 8, invalid parameter
Reason codes for RC=8					
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADPARMLIST	"X'00000801'" Error while accessing parameter list
28	(1C)	BITSTRING	0	CSVDYNEXRSNSRBMODE	"X'00000802'" Caller was in SRB mode
28	(1C)	BITSTRING	0	CSVDYNEXRSNNOTENABLED	"X'00000803'" Caller was not enabled
28	(1C)	BITSTRING	0	CSVDYNEXRSNNOTAUTHORIZED	"X'00000804'" Caller was not authorized
28	(1C)	BITSTRING	0	CSVDYNEXRSNHOMENOTPRIMARY	"X'00000805'" HASN ¬= PASN
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADANSAREAALET	"X'00000806'" ALET of ANSAREA was not acceptable
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADANSAREA	"X'00000807'" Error while accessing ANSAREA
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADANSLEN	"X'00000808'" ANSLEN was not at least as long as EXAAHDR mapped by CSVEXAA.
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADREQUESTTYPE	"X'00000809'" Parameter list contains an incorrect request type. Possible overlay.
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADESTAE	"X'0000080A'" ESTAE recovery could not be established. Possibly the caller had an EUT FRR.
28	(1C)	BITSTRING	0	CSVDYNEXRSNRESERVEDNOT0	"X'0000080B'" Parameter list contains a non-0 value in a reserved field. Possible overlay.
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADPARMLISTALET	"X'0000080D'" ALET of parameter list was not acceptable.
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADVERSION	"X'0000080E'" Parameter list contains an incorrect version number. Possible overlay.
28	(1C)	BITSTRING	0	CSVDYNEXRSNLOCKED	"X'0000080F'" Caller held a system lock.
28	(1C)	BITSTRING	0	CSVDYNEXRSNNOFASTPATH	"X'00000814'" The exit was not defined to allow fastpath calls
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADDSNAREA	"X'00000815'" Error while accessing area containing DSN
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADRETAREA	"X'00000816'" Error while accessing RETAREA
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADWORKAREA	"X'00000817'" Error while accessing WORKAREA
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADOPEN	"X'00000818'" Unable to open supplied data set.
28	(1C)	BITSTRING	0	CSVDYNEXRSNEXITNAMENOTFOUND	"X'00000819'" EXITNAME does not exist
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADRETLEN	"X'0000081A'" RETLEN was not at least as large as EXRETHDR plus one EXRETINFO entry

Table 585. Structure EXRET1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	BITSTRING	0	CSVDYNEXRSNREG2INRUB	"X'0000081B'" RUB indicated to set reg 2. Not allowed when exit allows AMODE 24 (i.e., the exit is defined as AMODE=24 or AMODE=DEFINED).
28	(1C)	BITSTRING	0	CSVDYNEXRSNMODULENOTFOUND	"X'0000081C'" Requested module was not found.
28	(1C)	BITSTRING	0	CSVDYNEXRSNNORESMGR	"X'0000081D'" Unable to establish resource manager needed to track the persistence requirement of the exit.
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADNEXTTOKEN	"X'0000081E'" NEXTTOKEN is incorrect
28	(1C)	BITSTRING	0	CSVDYNEXRSNWORKAREABADDATA	"X'0000081F'" WORKAREA contains incorrect data
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADDSNAMEALET	"X'00000820'" ALET of area containing DSN is not acceptable
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADRETAREAALET	"X'00000821'" ALET of RETAREA is not acceptable
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADEXITNAME	"X'00000822'" EXITNAME begins with blank or hex zero
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADMODNAME	"X'00000823'" MODNAME begins with blank or hex zero
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADRUB	"X'00000824'" Error accessing RUB
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADRUBALET	"X'00000825'" ALET of RUB is not acceptable
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADSDWA	"X'00000826'" Error accessing SDWA provided on CSVDYNEX REQUEST=RECOVER
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADAMODE	"X'00000827'" Exit is 31, module is 24 or vice versa
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADKEY	"X'00000828'" Key is not 0-15 for DEFINE or caller's key does not match defined key for CALL.
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADALLOC	"X'00000829'" Unable to allocate requested data set
28	(1C)	BITSTRING	0	CSVDYNEXRSNNOTREENTRANT	"X'0000082A'" Module is not reentrant
28	(1C)	BITSTRING	0	CSVDYNEXRSNNODYNALLOC	"X'0000082B'" Dsname specified when dynamic allocation is not yet allowed by the system
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADABENDCONSEC	"X'0000082C'" AbendConsec=YES is not allowed for fast path user key exit
28	(1C)	BITSTRING	0	CSVDYNEXRSNNOTAPFAUTHORIZED	"X'0000082E'" Specified data set was not APF authorized, so unable to load from it.
28	(1C)	BITSTRING	0	CSVDYNEXRSNREG3WITHLINKSTACKNO	"X'0000082F'" Request=CALL with LINKSTACK(NO) specified reg(3) in the RUB

Table 585. Structure EXRET1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADEXAAVER	"X'00000830'" EXAAVER field in parameter list has an incorrect value
28	(1C)	BITSTRING	0	CSVDYNEXRSNANYKEYNOTRENT	"X'00000831'" Request=DEFINE with ANYKEY=YES but not REENTRANT=REQ
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADPOS	"X'00000832'" POS value is incorrect.
28	(1C)	BITSTRING	0	CSVDYNEXRSNBADEXRETVER	"X'00000833'" EXRETVER field in parameter list has an incorrect value
28	(1C)	BITSTRING	0	CSVDYNEXRSNTASKNOTBELOWINITIATOR	"X'00000834'" Task is not valid for LOCAL=YES. It must be the jobstep-program task or a descendant of that task. 050201
28	(1C)	BITSTRING	0	CSVDYNEXRSNNOPRECALLWA	"X'00000835'" REQUEST=CALL with FASTPATH=YES was issued for an exit for which a precall routine was defined, but no workarea was provided via the PRECALLWA parameter 050201
28	(1C)	BITSTRING	0	CSVDYNEXRSNDELETEWITHOUTFORCE	"X'00000836'" A DELETE request that did not specify FORCE=YES was made for an exit routine that was added with FORCE=YES. The request is rejected. If you are sure that the exit routine can be deleted from the exit, also taking into consideration if this is a User Key FastPath (or AnyKey FastPath) exit which also requires FORCE=YES, request the DELETE function again, specifying FORCE=YES
28	(1C)	X'C'	0	CSVDYNEXRC_ENV	"12" Return code 12, environmental error
Reason codes for RC=12					
28	(1C)	BITSTRING	0	CSVDYNEXRSNFUNCTIONNOTAVAILABLE	"X'00000C01'"
28	(1C)	BITSTRING	0	CSVDYNEXRSNNOSTORAGE	"X'00000C02'" Storage was not available for a system control block or for containing the exit module.
28	(1C)	BITSTRING	0	CSVDYNEXRSNONEMODULEONLY	"X'00000C03'" The single module allowed by this exit has already been associated with that exit. The newly requested module cannot also be associated with that exit.
28	(1C)	BITSTRING	0	CSVDYNEXRSNNOTIMPLICITLYDEFINED	

Table 585. Structure EXRET1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000C04'" An operator UNDEFINE request was requested but the exit had been explicitly defined. The request is denied.
28	(1C)	X'10'	0	CSVDYNEXRC_COMPERROR	"16" Unknown, unexpected error
Reason codes for RC=16					
28	(1C)	BITSTRING	0	CSVDYNEXRSNCOMPERROR	"X'00001001'" System error encountered by component.
28	(1C)	X'20'	0	EXRET1_LEN	"*-EXRET1"

Table 586. Cross Reference for CSVEXRET

Name	Offset	Hex Tag
CSVDYNEX_PRECALL_CALL	1C	0
CSVDYNEX_PRECALL_NOCALL	1C	8
CSVDYNEXRC_COMPERROR	1C	10
CSVDYNEXRC_ENV	1C	C
CSVDYNEXRC_INVPARM	1C	8
CSVDYNEXRC_OK	1C	0
CSVDYNEXRC_WARN	1C	4
CSVDYNEXRSNALREADYEXISTS	1C	401
CSVDYNEXRSNANYKEYNOTRENT	1C	831
CSVDYNEXRSNBADABENDCONSEC	1C	82C
CSVDYNEXRSNBADALLOC	1C	829
CSVDYNEXRSNBADAMODE	1C	827
CSVDYNEXRSNBADANSAREA	1C	807
CSVDYNEXRSNBADANSAREAALET	1C	806
CSVDYNEXRSNBADANSLEN	1C	808
CSVDYNEXRSNBADDSNAMEALET	1C	820
CSVDYNEXRSNBADDSNAREA	1C	815
CSVDYNEXRSNBADESTAE	1C	80A
CSVDYNEXRSNBADEXAAVER	1C	830
CSVDYNEXRSNBADEXITNAME	1C	822
CSVDYNEXRSNBADEXRETVER	1C	833
CSVDYNEXRSNBADKEY	1C	828
CSVDYNEXRSNBADMODNAME	1C	823
CSVDYNEXRSNBADNEXTTOKEN	1C	81E
CSVDYNEXRSNBADOPEN	1C	818
CSVDYNEXRSNBADPARMLIST	1C	801
CSVDYNEXRSNBADPARMLISTALET	1C	80D
CSVDYNEXRSNBADPOS	1C	832
CSVDYNEXRSNBADREQUESTTYPE	1C	809
CSVDYNEXRSNBADRETAREA	1C	816
CSVDYNEXRSNBADRETAREAALET	1C	821
CSVDYNEXRSNBADRETLEN	1C	81A
CSVDYNEXRSNBADRUB	1C	824
CSVDYNEXRSNBADRUBALET	1C	825
CSVDYNEXRSNBADSDWA	1C	826

Table 586. Cross Reference for CSVEXRET (continued)

Name	Offset	Hex Tag
CSVDYNEXRSNBADVERSION	1C	80E
CSVDYNEXRSNBADWORKAREA	1C	817
CSVDYNEXRSNCODEMASK	1C	FFFF
CSVDYNEXRSNCOMPERROR	1C	1001
CSVDYNEXRSNDELETEWITHOUTFORCE	1C	836
CSVDYNEXRSNDOESNOTEXIST	1C	402
CSVDYNEXRSNEXITNAMENOTFOUND	1C	819
CSVDYNEXRSNFUNCTIONNOTAVAILABLE	1C	C01
CSVDYNEXRSNHOMENOTPRIMARY	1C	805
CSVDYNEXRSNIMPLICITLYDEFINED	1C	40A
CSVDYNEXRSNLOCKED	1C	80F
CSVDYNEXRSNMODULENOTFOUND	1C	81C
CSVDYNEXRSNMOREMODULES	1C	407
CSVDYNEXRSNNODYNALLOC	1C	82B
CSVDYNEXRSNNOFASTPATH	1C	814
CSVDYNEXRSNNOMODULES	1C	406
CSVDYNEXRSNNOPRECALLWA	1C	835
CSVDYNEXRSNNORESMGR	1C	81D
CSVDYNEXRSNNOSTORAGE	1C	C02
CSVDYNEXRSNNOTALLDATARETURNED	1C	403
CSVDYNEXRSNNOTAPFAUTHORIZED	1C	82E
CSVDYNEXRSNNOTAUTHORIZED	1C	804
CSVDYNEXRSNNOTENABLED	1C	803
CSVDYNEXRSNNOTIMPLICITLYDEFINED	1C	C04
CSVDYNEXRSNNOTREENTRANT	1C	82A
CSVDYNEXRSNONEMODULEONLY	1C	C03
CSVDYNEXRSNQUERYNOTFOUND	1C	409
CSVDYNEXRSNREG2INRUB	1C	81B
CSVDYNEXRSNREG3WITHLINKSTACKNO	1C	82F
CSVDYNEXRSNRESERVEDNOT0	1C	80B
CSVDYNEXRSNSRBMODE	1C	802
CSVDYNEXRSNTASKNOTBELOWINITIATOR	1C	834
CSVDYNEXRSNUSERKEYDELETENOFORCE	1C	408
CSVDYNEXRSNWORKAREABADDATA	1C	81F
EXRET	0	
EXRET_LEN	14	18
EXRET#REM	4	
EXRET#RET	0	
EXRETABEND	8	80
EXRETABENDCODE	C	
EXRETABENDRSNCODE	10	
EXRETCODE	C	
EXRETFLAGS	8	
EXRETHDR	0	
EXRETINFO	8	
EXRETRECACCPLIST	9	8
EXRETRECACCRETAREA	9	10
EXRETRECACCRUB	9	20
EXRETRECERRORBEFOREINIT	9	80

Table 586. Cross Reference for CSVEXRET (continued)

Name	Offset	Hex Tag
EXRETRECEXITMODINCONTROL	9	40
EXRETRECOVERFLAGS	9	
EXRETRECPRECALLRTNINCONTROL	9	4
EXRETREGS	C	
EXRETRSN	10	
EXRETR1	14	
EXRET1	0	
EXRET1_LEN	1C	20
EXRET1#REM	4	
EXRET1#RET	0	
EXRET1ABEND	8	80
EXRET1ABENDCODE	C	
EXRET1ABENDRSNCODE	10	
EXRET1CODE	C	
EXRET1FLAGS	8	
EXRET1HDR	0	
EXRET1INFO	8	
EXRET1MODNAME	18	
EXRET1PRECALLINDICATOR	18	
EXRET1PRECALLROUTINEADDR	1C	
EXRET1RECACCPLIST	9	8
EXRET1RECACCRETAREA	9	10
EXRET1RECACCRUB	9	20
EXRET1RECERRORBEFOREINIT	9	80
EXRET1RECEXITMODINCONTROL	9	40
EXRET1RECOVERFLAGS	9	
EXRET1RECPRECALLRTNINCONTROL	9	4
EXRET1REGS	C	
EXRET1RSN	10	
EXRET1R1	14	

Chapter 136. CSVEXTI Information

CSVEXTI Programming Interface Information

CSVEXTI is a programming interface.

CSVEXTI Heading Information

Common Name:	LOAD EXTInfo parameter mapping
Macro ID:	CSVEXTI
DSECT Name:	EXTI EXTIXE
Owning Component:	Contents Supervision (SC1CJ)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: Caller-supplied Key: Caller-supplied Residency: Caller-supplied
Size:	Variable EXTI -- X'0130' bytes EXTIXE -- X'0010' bytes
Created by:	Caller and passed as parameter on EXTINFO keyword on LOAD
Pointed to by:	LOAD parameter list
Serialization:	None required
Function:	Maps the data returned by the LOAD macro EXTINFO keyword.

CSVEXTI mapping

Table 587. Structure EXTI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EXTI	EXTINFO mapping
0	(0)	SIGNED	1	EXTI_VERSION	Must be initialized to 0
1	(1)	SIGNED	1	EXTI_NUMEXTENTS	1 to 16
2	(2)	SIGNED	1	EXTI_AUTH	Authorization
3	(3)	CHARACTER	5		Reserved
8	(8)	CHARACTER	8	EXTI_EPA_BASSM	Entry Point address. This address is in the format needed to BASSM to the target routine. Thus, an AMODE 64 target will have bit 63 on. An AMODE 31 target will have bit 32 on. An AMODE 24 target will have neither.
8	(8)	CHARACTER	4	EXTI_EPA_BASSM_H	High half
12	(C)	CHARACTER	4	EXTI_EPA_BASSM_L	Low half
16	(10)	CHARACTER	8	EXTI_EPA	Entry Point address. This has no AMODE bits on.
16	(10)	CHARACTER	4	EXTI_EPA_H	High half
20	(14)	CHARACTER	4	EXTI_EPA_L	Low half
24	(18)	CHARACTER	8	EXTI_XATTR1	Extended attributes
32	(20)	CHARACTER	16		Reserved

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Table 587. Structure EXTI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	CHARACTER	256	EXTI_EXTENT_AREA	EXTI_NUMEXTENTS contiguous entries each mapped by DSECT EXTIXE
48	(30)	X'130'	0	EXTI_LEN	"*-EXTI"

Table 588. Structure EXTIXE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EXTIXE	Extinfo Extent Entry
0	(0)	CHARACTER	8	EXTIXE_ADDR	Address
0	(0)	CHARACTER	4	EXTIXE_ADDR_H	High half
4	(4)	CHARACTER	4	EXTIXE_ADDR_L	Low half
8	(8)	CHARACTER	8	EXTIXE_LENGTH	Length
8	(8)	CHARACTER	4	EXTIXE_LENGTH_H	High half
12	(C)	CHARACTER	4	EXTIXE_LENGTH_L	Low half
12	(C)	X'10'	0	EXTIXE_LEN	"*-EXTIXE"

Table 589. Cross Reference for CSVEXTI

Name	Offset	Hex Tag
EXTI	0	
EXTI_AUTH	2	
EXTI_EPA	10	
EXTI_EPA_BASSM	8	
EXTI_EPA_BASSM_H	8	
EXTI_EPA_BASSM_L	C	
EXTI_EPA_H	10	
EXTI_EPA_L	14	
EXTI_EXTENT_AREA	30	
EXTI_LEN	30	130
EXTI_NUMEXTENTS	1	
EXTI_VERSION	0	
EXTI_XATTR1	18	
EXTIXE	0	
EXTIXE_ADDR	0	
EXTIXE_ADDR_H	0	
EXTIXE_ADDR_L	4	
EXTIXE_LEN	C	10
EXTIXE_LENGTH	8	
EXTIXE_LENGTH_H	8	
EXTIXE_LENGTH_L	C	

Chapter 137. CSVFTCHX Information

CSVFTCHX Programming Interface Information

CSVFTCHX is a programming interface.

CSVFTCHX Heading Information

Common Name:	CSVFETCH Exit info
Macro ID:	CSVFTCHX
DSECT Name:	FTCHX FTCHX_XTLST64_Entry
Owning Component:	Contents Supervision (SC1CJ)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: system-determined Key: 0 Residency: Above 16M
Size:	Variable FTCHX -- X'0138' bytes FTCHX_XTLST64_Entry -- X'0010' bytes
Created by:	System and passed as parameter to CSVFETCH exit routine
Pointed to by:	CSVFETCH Exit parameter list
Serialization:	None required
Function:	Maps the data provided to the CSVFETCH exit routine.

CSVFTCHX mapping

Table 590. Structure FTCHX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FTCHX	
0	(0)	CHARACTER	8	FTCHX_SERVICEID	ServiceID provided by exit caller. See equates beginning FTCHX_ServiceID_
8	(8)	CHARACTER	8	FTCHX_EPNAME	Entry point name when not FTCHX_ByPathName. Otherwise, *PATHNAM
16	(10)	ADDRESS	8	FTCHX_EPADDR64	The 64-bit pointer-defined entry-point address
16	(10)	CHARACTER	8	FTCHX_EPADDR64_C	
16	(10)	SIGNED	4	FTCHX_EPADDR64_0TO3	The high half
20	(14)	ADDRESS	4	FTCHX_EPADDR64_4TO7	The low half

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Table 590. Structure FTCHX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	ADDRESS	4	FTCHX_CDELPDEADDR	Address of CDE or LPDE. If bit CDELPDE/LPDELPDE is on, it is an LPDE and is mapped by IHALPDE. Otherwise, it is a CDE and is mapped by IHACDE. This bit is at the same position in both the CDE and LPDE. From the CDE/LPDE you can tell if this is an alias/minor - CDMIN/LPDEMIN is on if so. This bit is at the same position in both the CDE and LPDE. From an alias/minor CDE/LPDE you can find the major CDE/LPDE via CDXLMJP/LPDEMJP. This field is at the same position in both the CDE and LPDE.
28	(1C)	BITSTRING	4	FTCHX_FLAGS	
Bit definitions:					
		1...		FTCHX_UNFETCH	"X'80'" Off for fetch, on for unfetch
		.1..		FTCHX_BYPATHNAME	"X'40'" When fetch by path name. Will not be on if the CDE/LPDE is for an alias/minor
		..1.		FTCHX_BYDCB	"X'20'" When fetch with DCB
		...1		FTCHX_GLOBAL	"X'10'" When LOAD GLOBAL=YES (whether pageable or fixed)
		.... 1...		FTCHX_GLOBALFIXED	"X'08'" When LOAD GLOBAL=(YES,FIXED). Bit FTCHX_Global will be on as well
		.... .1..		FTCHX_DIRLOAD	"X'04'" Directed load. When LOAD with ADDR or ADDR64. Also applies to z/OS Unix directed load
32	(20)	ADDRESS	4	FTCHX_PATHNAMEADDR	Valid only when FTCHX_ByPathName is on. Otherwise unpredictable.
36	(24)	CHARACTER	8	FTCHX_UCBADDR_CCHH	
36	(24)	ADDRESS	4	FTCHX_UCBADDR	Address of UCB associated with the data set. Zero if the matching CDE was not created by the system. Not valid if FTCHX_ByPathname. Not valid for an LPDE
40	(28)	CHARACTER	4	FTCHX_CCHH	CCHH of DS on volume. Zero if the matching CDE was not created by the system. Not valid if FTCHX_ByPathname. Not valid for an LPDE.
44	(2C)	ADDRESS	4	FTCHX_DCBADDR	Valid only when FTCHX_ByDCB. Otherwise, unpredictable

Table 590. Structure FTCHX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	CHARACTER	264	FTCHX_XTLST64	For fetch (not unfetch) events only. Otherwise unpredictable. When the event is a directed load (FTCHX_DirLoad) and the entry point address is above 2G, the address in the extent list is unpredictable. Consists of 8-byte header (bytes 4-7 indicate the number of extents that follow), then 1-16 16-byte extents each of which has 8-byte address and 8-byte length. The entries beyond those indicated by the number of extents do not contain valid data.
48	(30)	CHARACTER	4		Reserved, value is unpredictable
52	(34)	SIGNED	4	FTCHX_XTLST64_NUMEXTENTS	Number of extents
56	(38)	CHARACTER	64	FTCHX_XTLST64_ENTRIES_AREA	Up to 16 contiguous entries, each mapped by FTCHX_XTLST64_ENTRY
		1		FTCHX_SERVICEID_FETCH_GETSTORE_0TO3	"X'00000001'" This is the first 4-byte segment of an 8-byte constant. For this fetch, the module was not on the JPQ so a new copy was gotten. If this is an alias (bit CDEMIN/LPDEMIN is on), the storage is associated with the major name
		....		FTCHX_SERVICEID_FETCH_GETSTORE_4TO7	"X'00000000'" This is the second 4-byte segment of an 8-byte constant. For this fetch, the module was not on the JPQ so a new copy was gotten. If this is an alias (bit CDEMIN/LPDEMIN is on), the storage is associated with the major name
		.... ..1.		FTCHX_SERVICEID_FETCH_JPQ_0TO3	"X'00000002'" This is the first 4-byte segment of an 8-byte constant.
		....		FTCHX_SERVICEID_FETCH_JPQ_4TO7	"X'00000000'" This is the second 4-byte segment of an 8-byte constant. For this fetch, the module was already on the JPQ and the existing copy was used. If this is an alias (bit CDEMIN/LPDEMIN is on), the storage is associated with the major name.
		.... .1..		FTCHX_SERVICEID_UNIX_GETSTORE_0TO3	

Table 590. Structure FTCHX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000004'" This is the first 4-byte segment of an 8-byte constant. For this fetch, the module was not on the JPQ so a new copy was gotten. If this is an alias (bit CDEMIN/LPDEMIN is on), the storage is associated with the major name
	....			FTCHX_SERVICEID_UNIX_GETSTORE_4TO7	"X'00000000'" This is the second 4-byte segment of an 8-byte constant. For this fetch, the module was not on the JPQ so a new copy was gotten. If this is an alias (bit CDEMIN/LPDEMIN is on), the storage is associated with the major name
	.... 1...			FTCHX_SERVICEID_UNIX_JPQ_0TO3	"X'00000008'" This is the first 4-byte segment of an 8-byte constant.
	....			FTCHX_SERVICEID_UNIX_JPQ_4TO7	"X'00000000'" This is the second 4-byte segment of an 8-byte constant. For this fetch, the module was already on the JPQ and the existing copy was used. If this is an alias (bit CDEMIN/LPDEMIN is on), the storage is associated with the major name.
	...1			FTCHX_SERVICEID_FETCH_LPA_0TO3	"X'00000010'" This is the first 4-byte segment of an 8-byte constant.
	....			FTCHX_SERVICEID_FETCH_LPA_4TO7	"X'00000000'" This is the second 4-byte segment of an 8-byte constant.
	..1.			FTCHX_SERVICEID_FETCH_DIRLOAD_0TO3	"X'00000020'" This is the first 4-byte segment of an 8-byte constant. For this fetch, directed load (LOAD with ADDR or ADDR64) was used. The requestor provided the storage.
	....			FTCHX_SERVICEID_FETCH_DIRLOAD_4TO7	"X'00000000'" This is the second 4-byte segment of an 8-byte constant. For this fetch, directed load (LOAD with ADDR or ADDR64) was used. The requestor provided the storage.
	.1..			FTCHX_SERVICEID_UNIX_DIRLOAD_0TO3	

Table 590. Structure FTCHX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000040'" This is the first 4-byte segment of an 8-byte constant. For this UNIX fetch, directed load was used. The requestor provided the storage.
		....		FTCHX_SERVICEID_UNIX_DIRLOAD_4TO7	"X'00000000'" This is the second 4-byte segment of an 8-byte constant. For this UNIX fetch, directed load was used. The requestor provided the storage.
		1...		FTCHX_SERVICEID_FORK_0TO3	"X'00000080'" This is the first 4-byte segment of an 8-byte constant.
		....		FTCHX_SERVICEID_FORK_4TO7	"X'00000000'" This is the second 4-byte segment of an 8-byte constant.
		....		FTCHX_SERVICEID_UNFETCH_FREESTORE_0TO3	"X'00000000'" This is the first 4-byte segment of an 8-byte constant. For this unfetch, there are no remaining users, so the module storage is freed.
		1		FTCHX_SERVICEID_UNFETCH_FREESTORE_4TO7	"X'00000001'" This is the second 4-byte segment of an 8-byte constant. For this unfetch, there are no remaining users, so the module storage is freed.
		....		FTCHX_SERVICEID_UNFETCH_NOFREE_0TO3	"X'00000000'" This is the first 4-byte segment of an 8-byte constant. For this unfetch, there are remaining users, so the module storage is not freed.
		.... ..1.		FTCHX_SERVICEID_UNFETCH_NOFREE_4TO7	"X'00000002'" This is the second 4-byte segment of an 8-byte constant. For this unfetch, there are remaining users, so the module storage is not freed.
		....		FTCHX_SERVICEID_UNFETCH_LPA_0TO3	"X'00000000'" This is the first 4-byte segment of an 8-byte constant.
		...1		FTCHX_SERVICEID_UNFETCH_LPA_4TO7	"X'00000010'" This is the second 4-byte segment of an 8-byte constant.
312	(138)	X'138'	0	FTCHX_LEN	"*-FTCHX"

CSVFTCHX mapping

Table 591. Structure FTCHX_XTLST64_ENTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FTCHX_XTLST64_ENTRY	
0	(0)	ADDRESS	8	FTCHX_XTLST64_ENTRY_ADDR	
0	(0)	CHARACTER	8	FTCHX_XTLST64_ENTRY_ADDR_C	
0	(0)	SIGNED	4	FTCHX_XTLST64_ENTRY_ADDR_0TO3	High half
4	(4)	ADDRESS	4	FTCHX_XTLST64_ENTRY_ADDR_4TO7	Low half
8	(8)	SIGNED	8	FTCHX_XTLST64_ENTRY_LENGTH	
8	(8)	CHARACTER	8	FTCHX_XTLST64_ENTRY_LENGTH_C	
8	(8)	SIGNED	4	FTCHX_XTLST64_ENTRY_LENGTH_0TO3	High half
12	(C)	SIGNED	4	FTCHX_XTLST64_ENTRY_LENGTH_4TO7	Low half
12	(C)	X'10'	0	FTCHX_XTLST64_ENTRY_LEN	"*-FTCHX_XTLST64_Entry"

Table 592. Cross Reference for CSVFTCHX

Name	Offset	Hex Tag
FTCHX	0	
FTCHX_BYDCB	1C	20
FTCHX_BYPATHNAME	1C	40
FTCHX_CCHH	28	
FTCHX_CDELPDEADDR	18	
FTCHX_DCBADDR	2C	
FTCHX_DIRLOAD	1C	4
FTCHX_EPADDR64	10	
FTCHX_EPADDR64_C	10	
FTCHX_EPADDR64_0TO3	10	
FTCHX_EPADDR64_4TO7	14	
FTCHX_EPNAME	8	
FTCHX_FLAGS	1C	
FTCHX_GLOBAL	1C	10
FTCHX_GLOBALFIXED	1C	8
FTCHX_LEN	138	138
FTCHX_PATHNAMEADDR	20	
FTCHX_SERVICEID	0	
FTCHX_SERVICEID_FETCH_DIRLOAD_0TO3	38	20
FTCHX_SERVICEID_FETCH_DIRLOAD_4TO7	38	0
FTCHX_SERVICEID_FETCH_GETSTORE_0TO3	38	1
FTCHX_SERVICEID_FETCH_GETSTORE_4TO7	38	0
FTCHX_SERVICEID_FETCH_JPQ_0TO3	38	2
FTCHX_SERVICEID_FETCH_JPQ_4TO7	38	0
FTCHX_SERVICEID_FETCH_LPA_0TO3	38	10
FTCHX_SERVICEID_FETCH_LPA_4TO7	38	0
FTCHX_SERVICEID_FORK_0TO3	38	80
FTCHX_SERVICEID_FORK_4TO7	38	0
FTCHX_SERVICEID_UNFETCH_FREESTORE_0TO3	38	0
FTCHX_SERVICEID_UNFETCH_FREESTORE_4TO7	38	1
FTCHX_SERVICEID_UNFETCH_LPA_0TO3	38	0

Table 592. Cross Reference for CSVFTCHX (continued)

Name	Offset	Hex Tag
FTCHX_SERVICEID_UNFETCH_LPA_4TO7	38	10
FTCHX_SERVICEID_UNFETCH_NOFREE_0TO3	38	0
FTCHX_SERVICEID_UNFETCH_NOFREE_4TO7	38	2
FTCHX_SERVICEID_UNIX_DIRLOAD_0TO3	38	40
FTCHX_SERVICEID_UNIX_DIRLOAD_4TO7	38	0
FTCHX_SERVICEID_UNIX_GETSTORE_0TO3	38	4
FTCHX_SERVICEID_UNIX_GETSTORE_4TO7	38	0
FTCHX_SERVICEID_UNIX_JPQ_0TO3	38	8
FTCHX_SERVICEID_UNIX_JPQ_4TO7	38	0
FTCHX_UCBADDR	24	
FTCHX_UCBADDR_CCHH	24	
FTCHX_UNFETCH	1C	80
FTCHX_XTLST64	30	
FTCHX_XTLST64_ENTRIES_AREA	38	
FTCHX_XTLST64_ENTRY	0	
FTCHX_XTLST64_ENTRY_ADDR	0	
FTCHX_XTLST64_ENTRY_ADDR_C	0	
FTCHX_XTLST64_ENTRY_ADDR_0TO3	0	
FTCHX_XTLST64_ENTRY_ADDR_4TO7	4	
FTCHX_XTLST64_ENTRY_LEN	C	10
FTCHX_XTLST64_ENTRY_LENGTH	8	
FTCHX_XTLST64_ENTRY_LENGTH_C	8	
FTCHX_XTLST64_ENTRY_LENGTH_0TO3	8	
FTCHX_XTLST64_ENTRY_LENGTH_4TO7	C	
FTCHX_XTLST64_NUMEXTENTS	34	

Chapter 138. CSVLPRET Information

CSVLPRET Programming Interface Information

CSVLPRET is a programming interface.

CSVLPRET Heading Information

Common Name:	Dynamic LPA Return Information
Macro ID:	CSVLPRET
DSECT Name:	LPMEA LPMED LPMEAX LPMEAQ
Owning Component:	Contents Supervision (SC1CJ)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: Caller-supplied Key: Caller-supplied Residency: Caller-supplied
Size:	Variable LPMEA -- X'0028' bytes LPMEAX -- X'0010' bytes LPMEAQ -- X'0024' bytes LPMED -- X'0014' bytes
Created by:	Caller and passed as parameter on MODINFO keyword on CSVDYLPA ADD and DELETE System and passed as parameter to exit CSVDYLPA System and provided as information within SMF Type 90 Subtype 31 record
Pointed to by:	CSVDYLPA parameter list Parameter passed to exit CSVDYLPA Area within SMF Type 90 Subtype 31 record
Serialization:	None required
Function:	The MODINFO area is a contiguous array of entries, mapped by the LPMEA (for ADD) or LPMED (for DELETE) DSECT An LPMEAX can be provided for ADD, which is also a contiguous array of entries. Each LPMEAX entry is related to the corresponding LPMEA entry. An LPMEAQ must be provided when QueryOnly=YES is specified. An area of continguous entries mapped by the LPMEA DSECT is provided to exit CSVDYLPA An area of continguous entries mapped by the LPMEA DSECT is provided within the SMF Type 90 Subtype 31 record

CSVLPRET mapping

Table 593. Structure LPMEA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LPMEA	Modinfo entry for ADD
0	(0)	CHARACTER	10	LPMEAINPUTINFO	Information provided by caller of dynamic LPA services. Provided to exit CSVDYLPA. Mapping of module entries within Type 90 Subtype 31 SMF records.
0	(0)	CHARACTER	8	LPMEANAME	The module name

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Table 593. Structure LPMEA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	BITSTRING	2	LPMEAINPUTFLAGS	Flags set by the caller Not applicable to exit CSVDYLPA or SMF record.
8	(8)	BITSTRING	1	LPMEAINPUTFLAGS0	Byte 0 of Flags. Not applicable when BYADDR=YES.
Bit definitions:					
		1...		LPMEAFIXED	"X'80'" If on, page-fix this module
		.1..		LPMEAPAGEPROTPAGE	"X'40'" If on, page-protect only the whole pages of this module. If off, page-protect all bytes of this module. Be aware that when page-protecting all bytes of the module, storage utilization for the module may increase, as the system allocates a number of whole pages for the module, rather than just the amount of storage that is truly necessary to load the module.
		..1.		LPMEASTORAGEOWNERSYSTEM	"X'20'" If on, the storage in which the module is placed is to be OWNER=SYSTEM. If off, it is OWNER=HOME.
9	(9)	BITSTRING	1	LPMEAINPUTFLAGS1	Byte 1 of Flags. Not applicable when BYADDR=YES.
Bit definitions:					
		1...		LPMEASVC	"X'80'" This entry is an SVC. The SVC number is in LpmeaxSvcnum.
		.1..		LPMEAESVC	"X'40'" This entry is an extended SVC. The SVC number is in LpmeaxSvcnum. The extended svc routing code is in LpmeaxESvcrnum.
10	(A)	CHARACTER	30	LPMEAOUTPUTINFO	
10	(A)	BITSTRING	2	LPMEAOUTPUTFLAGS	Output: Flags
10	(A)	BITSTRING	1	LPMEAOUTPUTFLAGS0	Byte 0 of Flags. Only bit LpmeaSuccess is applicable to exit CSVDYLPA or SMF record - the module entry is only valid when that bit is on.
Bit definitions:					
		1...		LPMEASUCCESS	"X'80'" Successfully processed
		.1..		LPMEAMODPROB	"X'40'" A problem occurred processing this entry. Function with problem is indicated by LpmeaModprobFunction.
		..1.		LPMEAMODPROBABENDINFO	"X'20'" An unexpected abend occurred while processing this entry. Further information is in the LpmeaAbendRsnCodes area.

Table 593. Structure LPMEA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		LPMEAMODPROBRETURNCODEINFO	"X'10'" An unexpected return code was received while processing this entry. Further information is in the LpmeaRetRsnCodes area.
11	(B)	BITSTRING	1	LPMEAMODPROBFUNCTION	Function with problem. See equates below that have names beginning with LpmeaModprob. Valid when LpmeaModprob is on.
11	(B)	BITSTRING	1	LPMEASUCCESSCONCATNUM	The concatenation number (0 to n) representing the data set in which the module was located. This will be 0 when the input was by data set (as opposed to by DDNAME or DCB address). It is only valid when LpmeaSuccess is on, or for exit CSVDYLPA or SMF record. It is not valid for ByADDR=YES or when PATHNAME is used.
12	(C)	CHARACTER	28	LPMEASTUFF	
12	(C)	CHARACTER	28	LPMEASUCCESSINFO	Valid only when LpmeaSuccess is on.
12	(C)	CHARACTER	8	LPMEADELETETOKEN	Output: Token to be used on DELETE for this module.
20	(14)	ADDRESS	4	LPMEAENTRYPOINTADDR	Output: The entry point. (Input for BYADDR=YES.) If this is a DELETE event either for exit CSVDYLPA or for an SMF record, then this field represents the entry point address of the now-current LPA copy of the module, or has a value of X'7FFFFFFF' when there is no remaining LPA copy of the module (in which case the LoadPointAddr and Length fields are not valid).
20	(14)	BITSTRING	3	LPMEAENTRYPOINTADDRBYTES0TO2	
Bit definitions:					
		1...		LPMEAENTRYPOINTADDRBIT0	"X'80'" On if AMODE=31 or if the caller is AMODE 31 and the entry is AMODE=ANY
23	(17)	BITSTRING	1	LPMEAENTRYPOINTADDRBYTE3	
Bit definitions:					
		1		LPMEAENTRYPOINTADDRBIT31	"X'01'" On if AMODE=64
24	(18)	ADDRESS	4	LPMEALOADPOINTADDR	Output: The load point. (Input for BYADDR=YES.)
28	(1C)	SIGNED	4	LPMEAMODLEN	Output: The length. (Input for BYADDR=YES.)

Table 593. Structure LPMEA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	ADDRESS	4	LPMEALOADPOINTADDR2	Output: The load point of the secondary area. A PDSE module may be split into an above-16M part and a below-16M part. When the module is not split, this will be 0. (Input for BYADDR=YES.)
36	(24)	SIGNED	4	LPMEAMODLEN2	Output: The length of the secondary area. When the module is not split, this will be 0. (Input for BYADDR=YES.)
12	(C)	CHARACTER	8	LPMEARETRSNCODES	Valid when LpmeaModprobReturnCodeInfo
12	(C)	SIGNED	4	LPMEARETCODE	Output: Return code from function designated in LpmeaModprobFunction
16	(10)	SIGNED	4	LPMEARSNCODE	Output: Reason code from function designated in LpmeaModprobFunction
12	(C)	CHARACTER	8	LPMEAABENDRSNCODES	Valid when LpmeaModprobAbendInfo
12	(C)	SIGNED	4	LPMEAABENDCODE	Output: Abend code from function designated in LpmeaModprobFunction
16	(10)	SIGNED	4	LPMEAABENDRSNCODE	Output: Abend reason code from function designated in LpmeaModprobFunction
40	(28)	X'28'	0	LPMEA_LEN_V0	"40" Version 0 length
40	(28)	X'1'	0	LPMEAMODPROBNOTFOUND	"1" The module could not be located via the data set, ddname, or DCB@ that was provided
40	(28)	X'2'	0	LPMEAMODPROBNOTAUTH	"2" Not authorized to add this module to LPA
40	(28)	X'3'	0	LPMEAMODPROBDIRECTORY	"3" Directory processing produced an unexpected return code
40	(28)	X'4'	0	LPMEAMODPROBFETCH	"4" FETCH produced an unexpected return code
40	(28)	X'6'	0	LPMEAMODPROBPAGEPROT	"6" PGSER PROTECT produced an unexpected abend
40	(28)	X'7'	0	LPMEAMODPROBTOOMANYEXTENTS	"7" Only load modules with 1 or 2 extents defined can be processed.
40	(28)	X'8'	0	LPMEAMODPROBNOTEXECUTABLE	"8" The module is not executable
40	(28)	X'A'	0	LPMEAMODPROBDESERVDESL	"10" Directory processing produced an unexpected return code
40	(28)	X'B'	0	LPMEAMODPROBDUPLICATE	"11" The member is a duplicate of another member.
40	(28)	X'C'	0	LPMEAMODPROBAMODE64NOTZARCH	"12" Attempt to create an LPA module byaddr that is AMODE 64 but the system is not running in z/Architecture mode

Table 593. Structure LPMEA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	X'D'	0	LPMEAMODPROBBPX4LOD	"13" Bpx4lod produced an unexpected return code
40	(28)	X'E'	0	LPMEAMODPROBNOTAPFPROG	"14" The module to be loaded via pathname was not marked as an APF program via the UNIX extattr command with the +a attribute.
40	(28)	X'14'	0	LPMEAMODPROBUNEXPECTEDABEND	"20" An unexpected abend resulted while processing. Fields LpmeaAbendcode and LpmeaAbendrsncode contain the abend code and abend reason code.
40	(28)	X'28'	0	LPMEA_LEN	"*-LPMEA"

Table 594. Structure LPMEAX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LPMEAX	Modinfo entry for ADD
0	(0)	BITSTRING	1	LPMEAXVERSION	This is an input field. Should be 0, but is not checked.
1	(1)	CHARACTER	15	LPMEAXMOREINPUTINFO	Information provided by the caller
1	(1)	BITSTRING	1	LPMEAXSVCNUM	Input SVC num
2	(2)	BITSTRING	1	LPMEAXESVCRNUM	Input extended SVC routing number
3	(3)	CHARACTER	13		Reserved
3	(3)	X'10'	0	LPMEAX_LEN_V0	"16" Version 0 length
3	(3)	X'10'	0	LPMEAX_LEN	"*-LPMEAX"

Table 595. Structure LPMEAQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LPMEAQ	Modinfo entry for ADD with QUERYONLY=YES
0	(0)	BITSTRING	1	LPMEAQVERSION	Initial version: 0 This is an output field.
1	(1)	CHARACTER	3		Reserved
4	(4)	SIGNED	4	LPMEAQCSAREQ	Amount of CSA needed
8	(8)	SIGNED	4	LPMEAQECSAREQ	Amount of ECSA needed
12	(C)	SIGNED	4	LPMEAQSQAREQ	Amount of SQA needed
16	(10)	SIGNED	4	LPMEAQESQAREQ	Amount of ESQA needed
20	(14)	CHARACTER	16		Reserved
20	(14)	X'24'	0	LPMEAQ_LEN_V0	"36" Version 0 length
20	(14)	X'24'	0	LPMEAQ_LEN	"*-LPMEAQ"

Table 596. Structure LPMED

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LPMED	Modinfo entry for DELETE

Table 596. Structure LPMED (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	CHARACTER	18	LPMEDINPUTINFO	Information provided by caller
0	(0)	CHARACTER	8	LPMEDNAME	The module name
8	(8)	CHARACTER	8	LPMEDDELETETOKEN	Token returned when this module was added. Identifies the copy to delete.
16	(10)	BITSTRING	2	LPMEDINPUTFLAGS	Flags set by the caller
16	(10)	BITSTRING	1	LPMEDINPUTFLAGS0	Byte 0 of Flags
17	(11)	BITSTRING	1	LPMEDINPUTFLAGS1	Byte 0 of Flags
18	(12)	CHARACTER	2	LPMEDOUTPUTINFO	Information provided by the system.
18	(12)	BITSTRING	2	LPMEDOUTPUTFLAGS	Output: Flags
18	(12)	BITSTRING	1	LPMEDOUTPUTFLAGS0	Byte 0 of Flags
Bit definitions:					
		1...		LPMEDSUCCESS	"X'80'" Successfully processed
		.1..		LPMEDMODPROB	"X'40'" Problem occurred processing this entry. Function with problem is indicated by LpmedModprobFunction.
19	(13)	BITSTRING	1	LPMEDMODPROBFUNCTION	Function with problem. See equates beginning with LpmedModprob. Valid when LpmedModprob is on
19	(13)	X'14'	0	LPMED_LEN_V0	"20" Version 0 length
19	(13)	X'1'	0	LPMEDMODPROBNOTFOUND	"1" The module was not part of dynamic LPA.
19	(13)	X'2'	0	LPMEDMODPROBNOTAUTH	"2" Not authorized to delete this module from LPA
19	(13)	X'3'	0	LPMEDMODPROBUNEXPECTEDABEND	"3" An unexpected abend resulted while processing.
Format constants returned for CSVDYLPA REQUEST(QUERYDYN)					
19	(13)	X'0'	0	CSVDYLPADYNNOTAVAILABLE	"0"
19	(13)	X'1'	0	CSVDYLPADYNAVAILABLE	"1"
Deferred LPA State constants returned for CSVDYLPA REQUEST(QUERYDEFLPA)					
19	(13)	X'0'	0	CSVDYLPADEFLPASTATE_INCOMPLETE	"0"
19	(13)	X'1'	0	CSVDYLPADEFLPASTATE_COMPLETE	"1"
Function constants for exit CSVDYLPA					
19	(13)	X'0'	0	CSVDYLPAFUNCTIONADD	"0"
19	(13)	X'1'	0	CSVDYLPAFUNCTIONDELETE	"1"
Return Code Information It is guaranteed that no reason code will be reused (i.e., the same reason code will not be used for more than one return code). Also note carefully that bits 0-15 of the reason code may contain component-diagnostic data and must not be assumed to be 0.					

Table 596. Structure LPMED (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
19	(13)	BITSTRING	0	CSVDYLPARSNCODEMASK	"X'0000FFFF'" Use this mask to isolate the non component-diagnostic portion of the reason code.
CSVDYLPA Return and Reason Code definitions					
		....		CSVDYLPARC_OK	"X'00000000'" Meaning: CSVDYLPA request successful. Action: None required.
		.... .1..		CSVDYLPARC_WARN	"X'00000004'" Meaning: Warning Action: Refer to the action provided with the specific reason code.
19	(13)	BITSTRING	0	CSVDYLPARSNNOTALLSUCCESSFUL	"X'00000401'" Meaning: For ADD and DELETE request, at least one input module could not be processed successfully. Information about the problem is contained within the MODINFO entry for that module, in field LpmeaOutputFlags (for ADD) or field LpmedOutputFlags (for DELETE). The system continued to process entries after the one for which the problem occurred. Action: Fix the problem before requesting the function again.
		.... 1...		CSVDYLPARC_INVPARM	"X'00000008'" Meaning: CSVDYLPA request specifies parmeters that are not valid. For ADD and DELETE, when the problem occurred while processing a particular MODINFO entry, the system will not process any additional MODINFO entries. Action: Refer to the action provided with the specific reason code.
19	(13)	BITSTRING	0	CSVDYLPARSNBADPARMLIST	"X'00000801'" Meaning: Unable to access parameter list. Action: Check for possible storage overlay.
19	(13)	BITSTRING	0	CSVDYLPARSNSRBMODE	"X'00000802'" Meaning: SRB mode. Action: Avoid requesting this function in SRB mode.
19	(13)	BITSTRING	0	CSVDYLPARSNNOTENABLED	"X'00000803'" Meaning: Not Enabled. Action: Avoid requesting this function while not enabled.
19	(13)	BITSTRING	0	CSVDYLPARSNHOMENOTPRIMARY	"X'00000805'" Meaning: Home address space different from primary address space. Action: Avoid requesting this function in this environment.

Table 596. Structure LPMED (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
19	(13)	BITSTRING	0	CSVDYLPARSNBADREQUESTTYPE	"X'00000809'" Meaning: Request type is not valid. Action: Check for possible storage overlay of the parameter list.
19	(13)	BITSTRING	0	CSVDYLPARSNBADESTAEX	"X'0000080A'" Meaning: Unable to establish ESTAEX. "xxxx" contains the ESTAEX return code. There could be an FRR established. Action: Refer to documentation for ESTAEX return code "xxxx".
19	(13)	BITSTRING	0	CSVDYLPARSNRESERVEDNOT0	"X'0000080B'" Meaning: Reserved field not 0. Action: Check for possible storage overlay of the parameter list.
19	(13)	BITSTRING	0	CSVDYLPARSNBADPARMLISTALET	"X'0000080D'" Meaning: Unable to use ALET of parameter list. Action: Make sure that the ALET of the parameter list is valid. The access register might not have been set up correctly.
19	(13)	BITSTRING	0	CSVDYLPARSNBADVERSION	"X'0000080E'" Meaning: Bad version number. Action: Check for possible storage overlay of the parameter list.
19	(13)	BITSTRING	0	CSVDYLPARSNLOCKED	"X'0000080F'" Meaning: Locked Action: Avoid requesting this function in this environment.
19	(13)	BITSTRING	0	CSVDYLPARSNBADDSNAMEAREA	"X'00000815'" Meaning: Unable to access data set name. Action: Make sure that the DSNAME area is valid.
19	(13)	BITSTRING	0	CSVDYLPARSNBADMODINFOAREA	"X'00000816'" Meaning: Unable to access MODINFO area. Action: Make sure that the MODINFO area is valid.
19	(13)	BITSTRING	0	CSVDYLPARSNBADMODINFOALET	"X'00000817'" Meaning: Unable to use ALET of MODINFO area. Action: Make sure that the ALET of the MODINFO area is valid. The access register might not have been set up correctly.
19	(13)	BITSTRING	0	CSVDYLPARSNBADOPEN	"X'00000818'" Meaning: Unable to open specified data set. Action: Make sure that you specified the proper data set, that it is a PDS or PDSE program library, and that it can be located by the system.

Table 596. Structure LPMED (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
19	(13)	BITSTRING	0	CSVDYLPARSNBADNUMMOD	"X'0000081D'" Meaning: The value provided by the NUMMOD parameter is 0 or exceeds 256. Action: Specify a non-zero NUMMOD parameter value. Instead of providing more than 256 entries in a single call, use multiple calls each of which provides no more than 256 entries.
19	(13)	BITSTRING	0	CSVDYLPARSNBADDSNAMEALET	"X'00000820'" Meaning: Bad dsname ALET. Action: Make sure that the ALET of the DSNAME area is valid. The access register might not have been set up correctly.
19	(13)	BITSTRING	0	CSVDYLPARSNBADMODULENAME	"X'00000822'" Meaning: Bad modulename - first character is 0 or blank. Action: Provide a valid module name.
19	(13)	BITSTRING	0	CSVDYLPARSNBADDSNAME	"X'00000823'" Meaning: Bad DSNAME - first character is 0 or blank. Action: Provide a valid data set name.
19	(13)	BITSTRING	0	CSVDYLPARSNBADALLOC	"X'00000829'" Meaning: Unable to allocate data set. Action: Make sure that you specified the proper data set, that it is a PDS or PDSE program library, and that it can be located by the system.
19	(13)	BITSTRING	0	CSVDYLPARSNFUNCTIONNOTAVAILABLE	"X'0000082B'" Meaning: Required DFSMS function or dynamic allocation is not available or request issued prior to the LNKLST being available. Action: Make sure that the required DFSMS support is installed. Avoid requesting the function in an environment where dynamic allocation is not available. Avoid requesting the function until the LNKLST is available. Avoid requesting dynamic LPA services via the PROG=xx parameter of the IEASYSxx parmlib member.
19	(13)	BITSTRING	0	CSVDYLPARSNNOTAUTHDCB	"X'0000082C'" Meaning: Not authorized to use DCB option. Must be supervisor state, PKM allowing key 0-7, PSW key 0-7, or APF authorized. Action: Avoid using the DCB option without the required authorization.

Table 596. Structure LPMED (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
19	(13)	BITSTRING	0	CSVDYLPARSNNOTAUTHCONCAT	"X'0000082D'" Meaning: If not supervisor state, PKM allowing key 0-7, PSW key 0-7, or APF authorized, or if APFREQUIRED=YES is specified or defaulted, the concatenation represented by the input DDNAME or DCB must be APF authorized. Action: Avoid using a non-APF authorized concatenation without the required authorization.
19	(13)	BITSTRING	0	CSVDYLPARSNNOTAUTHMEMBERMASK	"X'0000082E'" Meaning: Not authorized to use MemberMask option. Must be supervisor state, PKM allowing key 0-7, PSW key 0-7, or APF authorized. Action: Avoid using the MODINFOTYPE=MEMBERMASK function without the required authorization.
19	(13)	BITSTRING	0	CSVDYLPARSNBADMODINFOXAREA	"X'00000830'" Meaning: Unable to access MODINFOX area. Action: Make sure that the MODINFOX area is valid.
19	(13)	BITSTRING	0	CSVDYLPARSNBADMODINFOXALET	"X'00000831'" Meaning: Unable to use ALET of MODINFOX area. Action: Make sure that the ALET of the MODINFOX area is valid. The access register might not have been set up correctly.
19	(13)	BITSTRING	0	CSVDYLPARSNESVC	"X'00000832'" Meaning: A non-extended SVC was selected, but the specified SVC number is an extended SVC. Action: Fix the SVC number.
19	(13)	BITSTRING	0	CSVDYLPARSNNOTESVC	"X'00000833'" Meaning: An extended SVC was selected, but the specified SVC number is not an extended SVC. Action: Fix the SVC number.
19	(13)	BITSTRING	0	CSVDYLPARSNBADESVCRNUM	"X'00000834'" Meaning: The routing number for the selected extended SVC exceeded the number of entries for that extended SVC that were defined at IPL. Action: Fix the extended SVC routine number.
19	(13)	BITSTRING	0	CSVDYLPARSNNOTPARTITIONED	"X'0000083C'" Meaning: For ADD request, the data set is not partitioned. Action: Make sure that you specified the proper data set and that it is a PDS or PDSE program library.

Table 596. Structure LPMED (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
19	(13)	BITSTRING	0	CSVDYLPARSNBADBYADDRINFO	"X'0000083D'" Meaning: For ADD request with BYADDR=YES, the module information is incorrect. Action: Make sure that the entry point and load point addresses represent common area storage. Make sure that the entry point lies within the primary load segment.
19	(13)	BITSTRING	0	CSVDYLPARSNNOTAUTHBYADDR	"X'0000083E'" Meaning: Not authorized to use BYADDR=YES option. Must be supervisor state, PKM allowing key 0-7, PSW key 0-7, or APF authorized. Action: Avoid using BYADDR=YES without the required authorization.
19	(13)	BITSTRING	0	CSVDYLPARSNBADDCBAREA	"X'0000083F'" Meaning: Unable to access the opened DCB. Action: Make sure that the DCB has been opened.
19	(13)	BITSTRING	0	CSVDYLPARSNENQHELDSHARED	"X'00000840'" Meaning: The ENQ resource with QNAME SYSZCSV and RNAME CSVDYLPA was held in the shared state on entry to dynamic LPA services. Action: Avoid holding the ENQ shared when using dynamic LPA services.
19	(13)	BITSTRING	0	CSVDYLPARSNBADLPMEAQAREA	"X'00000841'" Meaning: Unable to access LPMEAQ area. Action: Make sure that the LPMEAQ area is valid.
19	(13)	BITSTRING	0	CSVDYLPARSNBADLPMEAQALET	"X'00000842'" Meaning: Unable to use ALET of LPMEAQ area. Action: Make sure that the ALET of the LPMEAQ area is valid. The access register might not have been set up correctly.
19	(13)	BITSTRING	0	CSVDYLPARSNNOTAUTHADDALIAS	"X'00000843'" Meaning: Not authorized to use the ADDALIAS=YES function. Must be supervisor state, PKM allowing key 0-7, PSW key 0-7, or APF authorized. Action: Avoid using the ADDALIAS=YES function without the required authorization.
19	(13)	BITSTRING	0	CSVDYLPARSNBADPATHNAMELEN	"X'00000844'" Meaning: The PATHNAMELEN parameter value is not in the range 1-1023. Action: Provide a valid PATHNAMELEN parameter value.
19	(13)	BITSTRING	0	CSVDYLPARSNBADPATHNAMEAREA	"X'00000845'" Meaning: Unable to access the pathname. Action: Make sure that the PATHNAME area is valid.

Table 596. Structure LPMED (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
19	(13)	BITSTRING	0	CSVDYLPARSNBADPATHNAMEALET	"X'00000846'" Meaning: Unable to use ALET of PATHNAME area. Action: Make sure that the ALET of the PATHNAME area is valid. The access register might not have been set up correctly.
19	(13)	BITSTRING	0	CSVDYLPARSNBADPATHNAMENUMMOD	"X'00000847'" Meaning: PATHNAME was specified and the value provided by the NUMMOD parameter is not 1. Action: Provide only 1 entry per call.
19	(13)	BITSTRING	0	CSVDYLPARSNNOTAUTHDEFLPAWAIT	"X'00000848'" Meaning: Not authorized to use REQUEST=DEFLPAWAIT. Must be supervisor state, PKM allowing key 0-7, PSW key 0-7, or APF authorized. Action: Avoid using REQUEST=DEFLPAWAIT without the required authorization.
	.... 11..			CSVDYLPARC_ENV	"X'0000000C'" Meaning: Environmental error Action: Refer to the action provided with the specific reason code.
19	(13)	BITSTRING	0	CSVDYLPARSNNOSTORAGE	"X'00000C02'" Meaning: There is not sufficient storage to complete the request. Action: Contact your system programmer. There is a shortage of common storage.
19	(13)	BITSTRING	0	CSVDYLPARSNBADDIRECTORY	"X'00000C04'" Meaning: When using the MemberMask option, the data set directory was in error. Either an I/O error occurred accessing the directory, or the format of a directory entry was incorrect. Action: Fix the data set directory. Make sure that the data set is a PDS or PDSE program library.
19	(13)	BITSTRING	0	CSVDYLPARSNSTORAGELIMEXCEEDED	"X'00000C05'" Meaning: For ADD request, the amount of module storage needed for the request would have caused the amount of CSA or ECSA remaining to fall below the threshold specified by the system programmer using the LPA CSAMIN statement of PROGxx or the SETPROG LPA,CSAMIN system command. Action: Specify that fewer modules be added, or have the system programmer reduce the CSAMIN amounts.

Table 596. Structure LPMED (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		CSVDYLPARC_COMPERROR	"X'00000010'" Meaning: Unexpected failure. Action: Refer to the action provided with the specific reason code.
19	(13)	BITSTRING	0	CSVDYLPARSNCOMPERROR	"X'00001001'" Meaning: Unexpected failure. The state of the request is unpredictable. Action: Contact your system programmer.
19	(13)	X'14'	0	LPMED_LEN	"*-LPMED"

Table 597. Cross Reference for CSVLPRET

Name	Offset	Hex Tag
CSVDYLPADEFLPASTATE_COMPLETE	13	1
CSVDYLPADEFLPASTATE_INCOMPLETE	13	0
CSVDYLPADYNAVAILABLE	13	1
CSVDYLPADYNNOTAVAILABLE	13	0
CSVDYLPAFUNCTIONADD	13	0
CSVDYLPAFUNCTIONDELETE	13	1
CSVDYLPARC_COMPERROR	13	10
CSVDYLPARC_ENV	13	C
CSVDYLPARC_INVPARM	13	8
CSVDYLPARC_OK	13	0
CSVDYLPARC_WARN	13	4
CSVDYLPARSNBADALLOC	13	829
CSVDYLPARSNBADBYADDRINFO	13	83D
CSVDYLPARSNBADDCBAREA	13	83F
CSVDYLPARSNBADDIRECTORY	13	C04
CSVDYLPARSNBADDSNAME	13	823
CSVDYLPARSNBADDSNAMEALET	13	820
CSVDYLPARSNBADDSNAMEAREA	13	815
CSVDYLPARSNBADESTAEX	13	80A
CSVDYLPARSNBADESVCRNUM	13	834
CSVDYLPARSNBADLPMEAQALET	13	842
CSVDYLPARSNBADLPMEAQAREA	13	841
CSVDYLPARSNBADMODINFOALET	13	817
CSVDYLPARSNBADMODINFOAREA	13	816
CSVDYLPARSNBADMODINFOXALET	13	831
CSVDYLPARSNBADMODINFOXAREA	13	830
CSVDYLPARSNBADMODULENAME	13	822
CSVDYLPARSNBADNUMMOD	13	81D
CSVDYLPARSNBADOPEN	13	818
CSVDYLPARSNBADPARMLIST	13	801
CSVDYLPARSNBADPARMLISTALET	13	80D
CSVDYLPARSNBADPATHNAMEALET	13	846
CSVDYLPARSNBADPATHNAMEAREA	13	845
CSVDYLPARSNBADPATHNAMELEN	13	844
CSVDYLPARSNBADPATHNAMENUMMOD	13	847
CSVDYLPARSNBADREQUESTTYPE	13	809

Table 597. Cross Reference for CSVLPRET (continued)

Name	Offset	Hex Tag
CSVDYLPARSNBADVERSION	13	80E
CSVDYLPARSNCODEMASK	13	FFFF
CSVDYLPARSNCOMPERROR	13	1001
CSVDYLPARSNENQHELDSHARED	13	840
CSVDYLPARSNESVC	13	832
CSVDYLPARSNFUNCTIONNOTAVAILABLE	13	82B
CSVDYLPARSNHOMENOTPRIMARY	13	805
CSVDYLPARSNLOCKED	13	80F
CSVDYLPARSNNOSTORAGE	13	C02
CSVDYLPARSNNOTALLSUCCESSFUL	13	401
CSVDYLPARSNNOTAUTHADDALIAS	13	843
CSVDYLPARSNNOTAUTHBYADDR	13	83E
CSVDYLPARSNNOTAUTHCONCAT	13	82D
CSVDYLPARSNNOTAUTHDCB	13	82C
CSVDYLPARSNNOTAUTHDEFLPAWAIT	13	848
CSVDYLPARSNNOTAUTHMEMBERMASK	13	82E
CSVDYLPARSNNOTENABLED	13	803
CSVDYLPARSNNOTESVC	13	833
CSVDYLPARSNNOTPARTITIONED	13	83C
CSVDYLPARSNRESERVEDNOT0	13	80B
CSVDYLPARSNSRBMODE	13	802
CSVDYLPARSNSTORAGELIMEXCEEDED	13	C05
LPMEA	0	
LPMEA_LEN	28	28
LPMEA_LEN_V0	28	28
LPMEAABENDCODE	C	
LPMEAABENDRSNCODE	10	
LPMEAABENDRSNCODES	C	
LPMEADELETETOKEN	C	
LPMEAENTRYPOINTADDR	14	
LPMEAENTRYPOINTADDRBIT0	14	80
LPMEAENTRYPOINTADDRBIT31	17	1
LPMEAENTRYPOINTADDRBYTES0TO2	14	
LPMEAENTRYPOINTADDRBYTE3	17	
LPMEAESVC	9	40
LPMEAFIXED	8	80
LPMEAINPUTFLAGS	8	
LPMEAINPUTFLAGS0	8	
LPMEAINPUTFLAGS1	9	
LPMEAINPUTINFO	0	
LPMEALOADPOINTADDR	18	
LPMEALOADPOINTADDR2	20	
LPMEAMODLEN	1C	
LPMEAMODLEN2	24	
LPMEAMODPROB	A	40
LPMEAMODPROBABENDINFO	A	20
LPMEAMODPROBAMODE64NOTZARCH	28	C
LPMEAMODPROBBPX4LOD	28	D
LPMEAMODPROBDESERVDESL	28	A

Table 597. Cross Reference for CSVLPRET (continued)

Name	Offset	Hex Tag
LPMEAMODPROBDIRECTORY	28	3
LPMEAMODPROBDUPLICATE	28	B
LPMEAMODPROBFETCH	28	4
LPMEAMODPROBFUNCTION	B	
LPMEAMODPROBNOTAPFPROG	28	E
LPMEAMODPROBNOTAUTH	28	2
LPMEAMODPROBNOTEXECUTABLE	28	8
LPMEAMODPROBNOTFOUND	28	1
LPMEAMODPROBPAGEPROT	28	6
LPMEAMODPROBRETURNCODEINFO	A	10
LPMEAMODPROBTOOMANYEXTENTS	28	7
LPMEAMODPROBUNEXPECTEDABEND	28	14
LPMEANAME	0	
LPMEAOUTPUTFLAGS	A	
LPMEAOUTPUTFLAGS0	A	
LPMEAOUTPUTINFO	A	
LPMEAPAGEPROTPAGE	8	40
LPMEAQ	0	
LPMEAQ_LEN	14	24
LPMEAQ_LEN_V0	14	24
LPMEAQCSAREQ	4	
LPMEAQECSAREQ	8	
LPMEAQESQAREQ	10	
LPMEAQSQAREQ	C	
LPMEAQVERSION	0	
LPMEARETCODE	C	
LPMEARETRSNCODES	C	
LPMEARSNCODE	10	
LPMEASTORAGEOWNERSYSTEM	8	20
LPMEASTUFF	C	
LPMEASUCCESS	A	80
LPMEASUCCESSCONCATNUM	B	
LPMEASUCCESSINFO	C	
LPMEASVC	9	80
LPMEAX	0	
LPMEAX_LEN	3	10
LPMEAX_LEN_V0	3	10
LPMEAXESVCRNUM	2	
LPMEAXMOREINPUTINFO	1	
LPMEAXSVCNUM	1	
LPMEAXVERSION	0	
LPMED	0	
LPMED_LEN	13	14
LPMED_LEN_V0	13	14
LPMEDDELETETOKEN	8	
LPMEDINPUTFLAGS	10	
LPMEDINPUTFLAGS0	10	
LPMEDINPUTFLAGS1	11	
LPMEDINPUTINFO	0	

Table 597. Cross Reference for CSVLPRET (continued)

Name	Offset	Hex Tag
LPMEDMODPROB	12	40
LPMEDMODPROBFUNCTION	13	
LPMEDMODPROBNOTAUTH	13	2
LPMEDMODPROBNOTFOUND	13	1
LPMEDMODPROBUNEXPECTEDABEND	13	3
LPMEDNAME	0	
LPMEDOUTPUTFLAGS	12	
LPMEDOUTPUTFLAGS0	12	
LPMEDOUTPUTINFO	12	
LPMEDSUCCESS	12	80

Chapter 139. CSVMODI Information

CSVMODI Programming Interface Information

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

- MODI_PATHTOKEN

CSVMODI Heading Information

Common Name:	Contents module information
Macro ID:	CSVMODI
DSECT Name:	MODI_HEADER MODI_1 MODI_2 MODI_3 MODI_4 MODI_5 MODI_SEGLEN MODI_SEGADDR
Owning Component:	Contents Supervision (SC1CJ)
Eye-Catcher ID:	MODI Offset: 0 Length: 4
Storage Attributes:	Subpool: 0 Key: User
Size:	MODI64_1 -- X'0018' bytes MODI_HEADER -- X'004C' bytes MODI_1 -- X'004C' bytes MODI_2 -- X'000C' bytes MODI_3 -- X'0020' bytes MODI_4 -- X'0004' bytes MODI_5 -- X'0008' bytes MODI_SEGLEN -- X'0004' bytes MODI_SEGADDR -- X'0004' bytes
Created by:	CSVINFO service
Pointed to by:	This is a mapping for a parameter to the user routine called by the CSVINFO service (CSVINFOM). When the user routine gets control, register 1 points to a pointer to this information.
Serialization:	Local lock for Job Pack Q and CMS lock for LPA for callers that are Supervisor state and PSW key 0.
Function:	To provide information associated with an entry point.

CSVMODI mapping

Table 598. Structure MODI_HEADER

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MODI_HEADER	
0	(0)	CHARACTER	4	MODI_EYECATCHER	= 'MODI'
4	(4)	CHARACTER	16	MODI_USERDATA	Copy of CSVINFO USERDATA
20	(14)	ADDRESS	4	MODI_ABDPL	Address of ABDUMP parmlist
24	(18)	CHARACTER	52	MODI_SECTIONS	Addresses and lengths of sections
24	(18)	ADDRESS	4	MODI_1_PTR	Address of the 1st section
28	(1C)	SIGNED	4	MODI_1_LEN	Length of the 1st section
32	(20)	ADDRESS	4	MODI_2_PTR	Address of the 2nd section
36	(24)	SIGNED	4	MODI_2_LEN	Length of the 2nd section

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Table 598. Structure MODI_HEADER (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	ADDRESS	4	MODI_3_PTR	Address of the 3rd section
44	(2C)	SIGNED	4	MODI_3_LEN	Length of the 3rd section
48	(30)	ADDRESS	4	MODI_4_PTR	Address of the 4th section
52	(34)	SIGNED	4	MODI_4_LEN	Length of the 4th section
56	(38)	ADDRESS	4	MODI_5_PTR	Address of the 5th section
60	(3C)	SIGNED	4	MODI_5_LEN	Length of the 5th section
64	(40)	BITSTRING	4	MODI_FLAGS	Flags
Bit definitions:					
		1...		MODI_NO_MODI_2	"X'80'" The MODI_2 data could not be accessed from the dump
		.1..		MODI_NO_MODI_3	"X'40'" The MODI_3 data could not be accessed from the dump
		..1.		MODI_NO_MODI_4	"X'20'" The MODI_4 data could not be accessed from the dump
		...1		MODI_NO_MODI_5	"X'10'" The MODI_5 data could not be accessed from the dump
		.... 1...		MODI_NO_MODI_EPNAME	"X'08'" The MODI_EPNAME field could not be accessed from the dump
		.... .1..		MODI_NO_MODI64_1	"X'04'" The MODI64_1 data could not be accessed
		.... ..1.		MODI_NO_MODI_DYNLPAPATHNAME	"X'02'" The MODI_DynlpaPathnameLen and MODI_DynlpaPathnameAddr fields could not be determined from the dump
68	(44)	BITSTRING	3		Reserved
68	(44)	ADDRESS	4	MODI64_1_PTR	Address of the 1st 64-bit section
72	(48)	SIGNED	4	MODI64_1_LEN	Length of the 1st 64-bit section
72	(48)	X'4C'	0	MODI_HEADER_LLL	"*-MODI_HEADER"

Table 599. Structure MODI_1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MODI_1	
0	(0)	ADDRESS	4	MODI_RB@	If the module is reentrant, this field contains the address of the last RB that controlled the module. If the module is serially reusable, this field contains the address of the RB at the top of the Waiting queue. If the module was requested only through LOAD macro instructions, contains ZERO.

Table 599. Structure MODI_1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	CHARACTER	8	MODI_8_BYTE_NAME	8 byte module name. This field does not contain the module name if MODI_PATHNAME is set on. In that case, this field contains an EBCDIC value indicating this is a pathname and the pathname is contained in MODI_EPNAME.
12	(C)	ADDRESS	4	MODI_ENT@	Module's relocated entry point address
12	(C)	CHARACTER	3	MODI_ENT@BYTES0TO2	First bytes of ENT@
Bit definitions:					
		1...		MODI_AMODE	"X'80'" Routine runs in 31 bit mode
		1...		MODI_AMODE31	"X'80'" Routine runs in 31 bit mode
15	(F)	CHARACTER	1	MODI_ENT@BYTE3	Last byte of ENT@
Bit definitions:					
		1		MODI_AMODE64	"X'01'" Routine runs in 64 bit mode
16	(10)	CHARACTER	4		Reserved
20	(14)	ADDRESS	2	MODI_USE_CT	Value contains the TOTAL MODULE USE COUNT
22	(16)	CHARACTER	1	MODI_ATTR1	First byte of attributes
Bit definitions:					
		1...		MODI_EOM	"X'80'" ON=Delete module at memory termination
		.1..		MODI_IDENTIFY	"X'40'" This entry point was created via IDENTIFY
		..1.		MODI_RACDTY	"X'20'" ON=Module was loaded by 'dirty' task
		.... 1...		MODI_PLPA	"X'08'" ON=The module resides in PLPA
		.... .1..		MODI_GLOBAL	"X'04'" ON = Module is loaded to GLOBAL
		.... ..1.		MODI_CONTAM	"X'02'" ON = Module is contaminated. A module is considered contaminated if it is from an APF authorized library, but was fetched into subpool 251 (it is not reentrant) by a NON authorized caller.
		1		MODI_USED_BY_RACF	"X'01'" For use by external security manager (for RACF: user has execute authority to module)
23	(17)	CHARACTER	1	MODI_SP	Module subpool ID
24	(18)	CHARACTER	1	MODI_ATTR2	Attribute flags
Bit definitions:					
		1...		MODI_NIP	"X'80'" This module was loaded by NIP or is a FIXED/MODIFIED LPA module

Table 599. Structure MODI_1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		MODI_NOT_IN_CORE	"X'40'" Module is in process of being LOADed
		..1.		MODI_REENT	"X'20'" Module is REENTRABLE
		...1		MODI_SER_REUS	"X'10'" Module is SERIALLY REUSABLE
		.... 1...		MODI_NON_FUNC	"X'08'" Module is NOT reentrant, and NOT reusable, and has been used once
		.... .1..		MODI_MINOR	"X'04'" This is a MINOR entry point
		.... ..1.		MODI_SP251	"X'02'" This module was loaded into subpool 251
		1		MODI_NOT_LOADABLE_ONLY	"X'01'" Module is NOT LOADABLE-ONLY
25	(19)	CHARACTER	1	MODI_ATTR3	Third attribute field
Bit definitions:					
		1...		MODI_SP_ZERO	"X'80'" Module is in SUBPOOL ZERO
		.... 1...		MODI_ANY_MODE	"X'08'" Routine runs in ANY mode
		.... .1..		MODI_OVERLAY	"X'04'" Module is in OVERLAY FORMAT
		.... ..1.		MODI_AUTH_LIB	"X'02'" This module came from an APF authorized library (a library listed in the APF table)
		1		MODI_AUTH_MOD	"X'01'" This module is an authorized module (linkedited with AC=1)
26	(1A)	CHARACTER	1	MODI_ATTR4	Fourth attribute field
Bit definitions:					
		1...		MODI_PATHNAME	"X'80'" This module has an OpenMVS path name. The MODI_8_BYTE_NAME field contains an EBCDIC value indicating this is a pathname, and MODI_EPNAME contains the full path name.
		.1..		MODI_LONGPARMOK	"X'40'" Longparm is accepted
		..1.		MODI_SPLIT	"X'20'" This is a "split" load module (part above, part below 16M)
		.... 1...		MODI_RTLS	"X'08'" Loaded by RTLS
		.... .1..		MODI_DLPA	"X'04'" Dynamic LPA
		.... ..1.		MODI_PROTP	"X'02'" Only whole pages are page-protected, as opposed to the entire module. Or module added by CSVDYLPA BYADDR=YES so page protection state is not known. Only on for dynamic LPA CDE.
27	(1B)	CHARACTER	1		RESERVED
28	(1C)	CHARACTER	8	MODI_XATTR1	Extended attributes
28	(1C)	CHARACTER	1	MODI_XATTR1_BYTE0	
29	(1D)	CHARACTER	1	MODI_XATTR1_BYTE1	
30	(1E)	CHARACTER	1	MODI_XATTR1_BYTE2	

Table 599. Structure MODI_1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Bit definitions:					
		1...		MODI_XATTR1_BASICPROGRAM	"X'80'"
		.1..		MODI_XATTR1_MAINPROGRAM	"X'40'"
		..1.		MODI_XATTR1_DIRTYFORMAIN	"X'20'"
31	(1F)	CHARACTER	1	MODI_XATTR1_BYTE3	
32	(20)	CHARACTER	1	MODI_XATTR1_BYTE4	
33	(21)	CHARACTER	1	MODI_XATTR1_BYTE5	
34	(22)	CHARACTER	1	MODI_XATTR1_BYTE6	
35	(23)	CHARACTER	1	MODI_XATTR1_BYTE7	
36	(24)	CHARACTER	4		Reserved
40	(28)	CHARACTER	8	MODI_ENT@64	Module's relocated 64-bit EPA
40	(28)	CHARACTER	4	MODI_ENT@64BYTES0TO3	First 4 bytes
44	(2C)	CHARACTER	4	MODI_ENT@64BYTES4TO7	Next 4 bytes
44	(2C)	CHARACTER	1	MODI_ENT@64BYTE4	Byte 4
Bit definitions:					
		1...		MODI_ENT@64_AMODE31	"X'80'" When this is on and MODI_ENT@64_AMODE64 is off, the routine is AMODE 64. When this is off and MODI_ENT@64_AMODE64 is off, the routine is AMODE 24.
45	(2D)	CHARACTER	2	MODI_ENT@64BYTES5TO6	Bytes 5-6
47	(2F)	CHARACTER	1	MODI_ENT@64BYTE7	Byte 7
Bit definitions:					
		1		MODI_ENT@64_AMODE64	"X'01'" When this is on, the the routine is AMODE 64.
48	(30)	CHARACTER	8	MODI_DSKEY	The data set key. This is used internally to help to identify uniquely the data set from which the module was fetched. The format of the key is not part of the programming interface. A value of 0 indicates that the data set key was not available.
56	(38)	CHARACTER	12	MODI_PATHTOKEN	The path token. It is valid only when MODI_PATHNAME is on. This field is for IBM use only.
68	(44)	CHARACTER	2		
70	(46)	SIGNED	2	MODI_DYNLPAPATHNAMELEN	Length of path name for a dynamic LPA module. Valid only when not 0
72	(48)	ADDRESS	4	MODI_DYNLPAPATHNAMEADDR	Address of path name for a dynamic LPA module. Valid only when field MODI_DynlpaPathnameLen is not 0
72	(48)	X'4C'	0	MODI_1_LLL	"*-MODI_1"

Table 600. Structure MODI_2

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MODI_2	

Table 600. Structure MODI_2 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	SIGNED	4	MODI_RELOC_FAC_NUM	Number of relocation factors
4	(4)	SIGNED	4	MODI_MOD_LEN	Length of module
8	(8)	ADDRESS	4	MODI_LOAD@	Address of where module was loaded
8	(8)	X'C'	0	MODI_2_LLL	"*-MODI_2"

Table 601. Structure MODI_SEGLEN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MODI_SEGLEN	The first length is located at offset 4 from the beginning of the MODI_2 area
0	(0)	SIGNED	4	MODI_SEGMENT_LEN	Array of module segment lengths
0	(0)	X'4'	0	MODI_SEGLEN_LLL	"*-MODI_SEGLEN"

Table 602. Structure MODI_SEGADDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MODI_SEGADDR	The first address is located at offset 4 plus the length of the area for the lengths (which is 4 * number of relocation factors)
0	(0)	ADDRESS	4	MODI_SEGMENT_ADDR	Array of module addresses
0	(0)	X'4'	0	MODI_SEGADDR_LLL	"*-MODI_SEGADDR"

Table 603. Structure MODI64_1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MODI64_1	
0	(0)	CHARACTER	8	MODI64_1_HEADER	
0	(0)	SIGNED	4	MODI64_RELOC_FAC_NUM	Number of relocation factors
4	(4)	CHARACTER	4	MODI64_RSVD	Reserved
8	(8)	CHARACTER	16	MODI64_XTLST_ENTRY	Extent list entry
8	(8)	CHARACTER	8	MODI64_XTLST_SEGMENT_ADDR	
8	(8)	CHARACTER	4	MODI64_XTLST_SEGMENT_ADDR_H	
12	(C)	CHARACTER	4	MODI64_XTLST_SEGMENT_ADDR_L	
16	(10)	CHARACTER	8	MODI64_XTLST_SEGMENT_LEN	
16	(10)	CHARACTER	4	MODI64_XTLST_SEGMENT_LEN_H	
20	(14)	CHARACTER	4	MODI64_XTLST_SEGMENT_LEN_L	
20	(14)	X'18'	0	MODI64_1_LLL	"*-MODI64_1"

Table 604. Structure MODI_3

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MODI_3	
0	(0)	SIGNED	2	MODI_NAME_LEN	Length of the name

Table 604. Structure MODI_3 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2	(2)	BITSTRING	2	MODI_ASID	ASID of address space in which this module was originally loaded. In an OpenMVS forked environment, this may not equal the current child address space ASID.
4	(4)	SIGNED	4	MODI_PROVIDER_ID	Provider Identifier
8	(8)	CHARACTER	16	MODI_PROVIDER_DATA	Provider Data
24	(18)	CHARACTER	8	MODI_EPTOKEN	Entry point token
32	(20)	CHARACTER	1	MODI_EPNAME(0)	Entry point name. The length of the name is in MODI_NAME_LEN. For OpenMVS modules this field contains the full OpenMVS pathname.
32	(20)	X'20'	0	MODI_3_LLL	"*-MODI_3"

Table 605. Structure MODI_4

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MODI_4	
0	(0)	SIGNED	2	MODI_LOAD_COUNT	The total number of requests for the module via the LOAD macro
2	(2)	SIGNED	2	MODI_LOAD_SYSCOUNT	The number of system requests for the module via the LOAD macro
2	(2)	X'4'	0	MODI_4_LLL	"*-MODI_4"

Table 606. Structure MODI_5

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MODI_5	
0	(0)	CHARACTER	8	MODI_8_BYTE_MAJOR_NAME	The 8 byte major name for a minor entry point
Eyecatcher for MODI_HEADER					
0	(0)	X'D6C4C9'	0	MODI_TEXT	"C'MODI'" Eyecatcher
Return codes for service module					
0	(0)	X'0'	0	MODI_OK	"0" Module processing occurred normally
0	(0)	X'4'	0	MODI_NOINFO	"4" There was no module information to return
0	(0)	X'8'	0	MODI_CALLER	"8" Processing terminated with a nonzero return code from the caller's subroutine
0	(0)	X'C'	0	MODI_LOCKS	"12" Locks needed to process the CSVINFO request could not be obtained
0	(0)	X'10'	0	MODI_INVALID_INPUT	"16" Processing terminated unexpectedly when invalid caller input was encountered

Table 606. Structure MODI_5 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'14'	0	MODI_NOTAVAIL	"20" The CSVINFO service routine is not available
0	(0)	X'18'	0	MODI_NOTRETRIEVED	"24" Processing terminated because requested information could not be retrieved from the dump
0	(0)	X'1C'	0	MODI_UNEXPECTED	"28" Processing terminated unexpectedly
0	(0)	X'20'	0	MODI_BELOW430	"32" A system at a level lower than 4.3.0 was trying to use the CSVINFO service
0	(0)	X'24'	0	MODI_BAD_PARMLIST	"36" The CSVINFO parameter list is not valid with the level of CSVINFO service on the system
0	(0)	X'28'	0	MODI_LOOP_LIMIT	"40" The CSVINFO service has exceeded a large threshold value for the number of times the MIPR is invoked on a single call.
0	(0)	X'2C'	0	MODI_INELIGIBLE_RB	"44" The RB supplied via RBADDR as input for FUNC(RB) was not a PRB or SVRB.
0	(0)	X'30'	0	MODI_MIPR_FAILED	"48" The supplied MIPR routine failed.
0	(0)	X'34'	0	MODI_RB_LOOP	"52" The RB supplied via RBADDR as input for FUNC(RB) has resulted in the CSVINFO service exceeding the expected number of iterations through an RB chain.
0	(0)	X'8'	0	MODI_5_LLL	"*-MODI_5"

Table 607. Cross Reference for CSVMODI

Name	Offset	Hex Tag
MODI_ABDPL	14	
MODI_AMODE	C	80
MODI_AMODE31	C	80
MODI_AMODE64	F	1
MODI_ANY_MODE	19	8
MODI_ASID	2	
MODI_ATTR1	16	
MODI_ATTR2	18	
MODI_ATTR3	19	
MODI_ATTR4	1A	
MODI_AUTH_LIB	19	2
MODI_AUTH_MOD	19	1
MODI_BAD_PARMLIST	0	24
MODI_BELOW430	0	20
MODI_CALLER	0	8
MODI_CONTAM	16	2
MODI_DLPA	1A	4
MODI_DSKEY	30	
MODI_DYNLPAPATHNAMEADDR	48	

Table 607. Cross Reference for CSVMODI (continued)

Name	Offset	Hex Tag
MODI_DYNLPAPATHNAMELEN	46	
MODI_ENT@	C	
MODI_ENT@BYTES0TO2	C	
MODI_ENT@BYTE3	F	
MODI_ENT@64	28	
MODI_ENT@64_AMODE31	2C	80
MODI_ENT@64_AMODE64	2F	1
MODI_ENT@64BYTES0TO3	28	
MODI_ENT@64BYTES4TO7	2C	
MODI_ENT@64BYTES5TO6	2D	
MODI_ENT@64BYTE4	2C	
MODI_ENT@64BYTE7	2F	
MODI_EOM	16	80
MODI_EPNAME	20	
MODI_EPTOKEN	18	
MODI_EYECATCHER	0	
MODI_FLAGS	40	
MODI_GLOBAL	16	4
MODI_HEADER	0	
MODI_HEADER_LLL	48	4C
MODI_IDENTIFY	16	40
MODI_INELIGIBLE_RB	0	2C
MODI_INVALID_INPUT	0	10
MODI_LOAD_COUNT	0	
MODI_LOAD_SYSCOUNT	2	
MODI_LOAD@	8	
MODI_LOCKS	0	C
MODI_LONGPARMOK	1A	40
MODI_LOOP_LIMIT	0	28
MODI_MINOR	18	4
MODI_MIPR_FAILED	0	30
MODI_MOD_LEN	4	
MODI_NAME_LEN	0	
MODI_NIP	18	80
MODI_NO_MODI_DYNLPAPATHNAME	40	2
MODI_NO_MODI_EPNAME	40	8
MODI_NO_MODI_2	40	80
MODI_NO_MODI_3	40	40
MODI_NO_MODI_4	40	20
MODI_NO_MODI_5	40	10
MODI_NO_MODI64_1	40	4
MODI_NOINFO	0	4
MODI_NON_FUNC	18	8
MODI_NOT_IN_CORE	18	40
MODI_NOT_LOADABLE_ONLY	18	1
MODI_NOTAVAIL	0	14
MODI_NOTRETRIEVED	0	18
MODI_OK	0	0
MODI_OVERLAY	19	4

Table 607. Cross Reference for CSVMODI (continued)

Name	Offset	Hex Tag
MODI_PATHNAME	1A	80
MODI_PATHTOKEN	38	
MODI_PLPA	16	8
MODI_PROTP	1A	2
MODI_PROVIDER_DATA	8	
MODI_PROVIDER_ID	4	
MODI_RACDTY	16	20
MODI_RB_LOOP	0	34
MODI_RB@	0	
MODI_REENT	18	20
MODI_RELOC_FAC_NUM	0	
MODI_RTLS	1A	8
MODI_SECTIONS	18	
MODI_SEGADDR	0	
MODI_SEGADDR_LLL	0	4
MODI_SEGLEN	0	
MODI_SEGLEN_LLL	0	4
MODI_SEGMENT_ADDR	0	
MODI_SEGMENT_LEN	0	
MODI_SER_REUS	18	10
MODI_SP	17	
MODI_SP_ZERO	19	80
MODI_SPLIT	1A	20
MODI_SP251	18	2
MODI_TEXT	0	D6C4C9
MODI_UNEXPECTED	0	1C
MODI_USE_CT	14	
MODI_USED_BY_RACF	16	1
MODI_USERDATA	4	
MODI_XATTR1	1C	
MODI_XATTR1_BASICPROGRAM	1E	80
MODI_XATTR1_BYTE0	1C	
MODI_XATTR1_BYTE1	1D	
MODI_XATTR1_BYTE2	1E	
MODI_XATTR1_BYTE3	1F	
MODI_XATTR1_BYTE4	20	
MODI_XATTR1_BYTE5	21	
MODI_XATTR1_BYTE6	22	
MODI_XATTR1_BYTE7	23	
MODI_XATTR1_DIRTYFORMAIN	1E	20
MODI_XATTR1_MAINPROGRAM	1E	40
MODI_1	0	
MODI_1_LEN	1C	
MODI_1_LLL	48	4C
MODI_1_PTR	18	
MODI_2	0	
MODI_2_LEN	24	
MODI_2_LLL	8	C
MODI_2_PTR	20	

Table 607. Cross Reference for CSVMODI (continued)

Name	Offset	Hex Tag
MODI_3	0	
MODI_3_LEN	2C	
MODI_3_LLL	20	20
MODI_3_PTR	28	
MODI_4	0	
MODI_4_LEN	34	
MODI_4_LLL	2	4
MODI_4_PTR	30	
MODI_5	0	
MODI_5_LEN	3C	
MODI_5_LLL	0	8
MODI_5_PTR	38	
MODI_8_BYTE_MAJOR_NAME	0	
MODI_8_BYTE_NAME	4	
MODI64_RELOC_FAC_NUM	0	
MODI64_RSVD	4	
MODI64_XTLST_ENTRY	8	
MODI64_XTLST_SEGMENT_ADDR	8	
MODI64_XTLST_SEGMENT_ADDR_H	8	
MODI64_XTLST_SEGMENT_ADDR_L	C	
MODI64_XTLST_SEGMENT_LEN	10	
MODI64_XTLST_SEGMENT_LEN_H	10	
MODI64_XTLST_SEGMENT_LEN_L	14	
MODI64_1	0	
MODI64_1_HEADER	0	
MODI64_1_LEN	48	
MODI64_1_LLL	14	18
MODI64_1_PTR	44	

Chapter 140. CSVRTAA Information

CSVRTAA Programming Interface Information

CSVRTAA is a programming interface.

CSVRTAA Heading Information

Common Name:	RTLS Answer Area
Macro ID:	CSVRTAA
DSECT Name:	RTAAHDR RTAAPH RTAADS RTAAMO RTAALO RTAALPH RTAALU RTAAPL RTLSXTL RTLSXTLE
Owning Component:	Contents Supervision (SC1CJ)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: Caller-supplied Key: Caller-supplied Residency: Caller-supplied
Size:	Variable RTAAHDR -- X'0038' bytes RTAAPH -- X'0048' bytes RTAADS -- X'0038' bytes RTAAMO -- X'0024' bytes RTAALO -- X'0050' bytes RTAALPH -- X'0014' bytes RTAALU -- X'0010' bytes RTAAPL -- X'001C' bytes RTLSXTL -- X'0088' bytes RTLSXTLE -- X'0008' bytes
Created by:	Caller and passed as parameter on ANSAREA keyword on CSVRTLS LIST
Pointed to by:	CSVRTLS parameter list
Serialization:	None required

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CSVRTAA Heading Information

Function: Maps the data returned by the CSVRTLS macro, LIST request.
The returned information consists of a header (RTAAHDR)
which indicates how many physical entries (RTAAPH)
and logical entries (RTAALO) follow.
RTAAHFIRSTPHADDR is a pointer to the first RTAAPH, and each
RTAAPH points to the next (RTAAPHNEXTADDR). The count provided in
header field RTAAHNumPH should be used to determine the number of
exit entries to examine.
Each RTAAPH indicates how many data set entries (RTAADS),
module entries (RTAAMO), and logical entries (RTAAPL)
are associated with it.
RTAAPHFIRSTDSADDR is a pointer to the first RTAADS, and each
RTAADS points to the next (RTAADSNEXTADDR). The
count provided in RTAAPHNumDS should be used
to determine the number of data set entries to examine.
RTAAPHFIRSTMOADDR is a pointer to the first RTAAMO, and each
RTAAMO points to the next (RTAAMONEXTADDR). The
count provided in RTAAPHNumMO should be used
to determine the number of module entries to examine.
RTAAPHFIRSTPLADDR is a pointer to the first RTAAPL, and each
RTAAPL points to the next (RTAAPLNEXTADDR). The
count provided in RTAAPHNumPL should be used
to determine the number of module entries to examine.
Each RTAALO indicates how many physical entries (RTAALPH),
module entries (RTAAMO),
and user entries (RTAALU) are associated with it.
RTAALOFIRSTLPHADDR is a pointer to the first RTAALPH, and each
RTAALPH points to the next (RTAALPHNEXTADDR). The
count provided in RTAALONumLPH should be used
to determine the number of LPH entries to examine.
RTAALOFIRSTMOADDR is a pointer to the first RTAAMO, and each
RTAAMO points to the next (RTAAMONEXTADDR). The
count provided in RTAALONumMO should be used
to determine the number of module entries to examine.
RTAALOFIRSTLUADDR is a pointer to the first RTAALU, and each
RTAALU points to the next (RTAALUNEXTADDR). The
count provided in RTAALONumLU should be used
to determine the number of user entries to examine.
RTLSXTL maps the extent list returned by the outXTLST parameter
of the CSVRTLS REQUEST=LOAD function. RTLSXTLE maps an entry
within that extent list

CSVRTAA mapping

Table 608. Structure RTAAHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RTAAHDR	Header section
0	(0)	SIGNED	4	RTAAHNUMPH	Number of RTAAPH entries which follow
4	(4)	SIGNED	4	RTAAHNUMLO	Number of RTAALO entries which follow
8	(8)	SIGNED	4	RTAAHNUMPHREM	Number of RTAAPH entries which were not returned because of insufficient space
12	(C)	SIGNED	4	RTAAHNUMLOREM	Number of RTAALO entries which were not returned because of insufficient space

Table 608. Structure RTAAHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	SIGNED	4	RTAAHTLEN	Total length of answer area needed to contain all the requested information. This includes the area for the records that were returned on this call.
20	(14)	ADDRESS	4	RTAAHFIRSTPHADDR	Address of first RTAAPH
24	(18)	ADDRESS	4	RTAAHFIRSTLOADDR	Address of first RTAALO
28	(1C)	SIGNED	4	RTAAHMAXBELOW	Limitation (in bytes) of below-16M common for modules
32	(20)	SIGNED	4	RTAAHBELOWUSED	Number of bytes used of below-16M common for modules
36	(24)	SIGNED	4	RTAAHMAXABOVE	Limitation (in bytes) of above-16M common for modules. 0 indicates that there is no limit
40	(28)	SIGNED	4	RTAAHABOVEUSED	Number of bytes used of below-16M common for modules
44	(2C)	BITSTRING	1	RTAAHFLAGS	Flags
Bit definitions:					
		1...		RTAAHNOABOVE16M	"X'80'" An attempt was made to get storage above-16M. The system was unable to comply and the storage was obtained below 16M. No subsequent caching of modules will be done.
		.1..		RTAAHCACHEBELOWISFULL	"X'40'"
		..1.		RTAAHCACHEABOVEISFULL	"X'20'"
45	(2D)	CHARACTER	3		Reserved
48	(30)	SIGNED	4	RTAAHFULLCACHELIMIT	Limit of number of times the RTLS cache could not meet the needs for the module being loaded before the cache is actually marked as being full.
52	(34)	SIGNED	4	RTAAHFULLCACHECOUNT	Number of times that the RTLS cache limit could not meet the needs for the module being loaded.
Return Code Information It is guaranteed that no reason code will be reused (i.e., the same reason code will not be used for more than one return code). Also note carefully that bits 0-15 of the reason code may contain component-diagnostic data and must not be assumed to be 0.					
52	(34)	BITSTRING	0	CSVRTLSRSNCODEMASK	"X'0000FFFF'" Use this mask to isolate the non component-diagnostic portion of the reason code.
CSVRTLS Return and Reason Code definitions					
		....		CSVRTLSRC_OK	"X'00000000'" Meaning: CSVRTLS request successful. Action: None required.
		.... .1..		CSVRTLSRC_WARN	"X'00000004'" Meaning: Warning Action: Refer to action provided with the reason code.

Table 608. Structure RTAAHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	BITSTRING	0	CSVRTLSRSNLISTNOMATCHES	"X'00000401'" Meaning: For LIST request, no matching logical and/or physical libraries matches the request. Action: Make sure that you specified the proper library name.
52	(34)	BITSTRING	0	CSVRTLSRSNALIASESEXIST	"X'00000402'" Meaning: For DISCONNECT request, there are outstanding alias entries to modules loaded for this library. An ATTACH(X), LINK(X), or XCTL(X) was issued using the name of a module loaded by RTLS for this library. Action: Avoid using DISCONNECT when there are such alias entries. If you cancel the jobstep, the system will perform the cleanup and disconnect on your behalf.
52	(34)	BITSTRING	0	CSVRTLSRSNNOTALLDATARETURNED	"X'00000403'" Meaning: For LIST request, not all data was returned because the answer area is not big enough. Answer area field RTAAHTLEN indicates how much space is currently required. Action: Allocate a larger area and request the function again.
		.... 1...		CSVRTLSRC_INVPARM	"X'00000008'" Meaning: CSVRTLS request specifies invalid parameters. Action: Refer to action provided with the reason code.
52	(34)	BITSTRING	0	CSVRTLSRSNBADPARMLIST	"X'00000801'" Meaning: Unable to access parameter list. Action: Check for possible storage overlay.

Table 608. Structure RTAAHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	BITSTRING	0	CSVRTLSRSNNOTAUTHORIZED	"X'00000804'" Meaning: For CONNECT or LOAD - not authorized. For CONNECT, the customer has requested that security checking be done. You do not have read access to RACF FACILITY class resource CSVRTLS.LIBRARY.library.version. For LOAD, the customer has restricted access to the program that you are attempting to access. You do not have access to that program. Action: Request this function only when you have the proper authority. For LOAD, refer to the documenation for completion code 306 reason code 30 in the system codes publication, and the documentation for message CSV205I in the system messages publication, for further information. While the completion code and message are not produced, the information pertaining to them does apply to this situation.
52	(34)	BITSTRING	0	CSVRTLSRSNBADANSAREAALET	"X'00000806'" Meaning: Bad answer area ALET. Action: Make sure that the ALET associated with the answer area is valid. The access register might not have been set up correctly.
52	(34)	BITSTRING	0	CSVRTLSRSNBADANSAREA	"X'00000807'" Meaning: Error accessing answer area. Action: Make sure that the provided answer area is valid.
52	(34)	BITSTRING	0	CSVRTLSRSNBADANSLEN	"X'00000808'" Meaning: LIST - AnsLen is less than size of the header area. Action: Provide a larger answer area (as indicated by the ANSLEN keyword).
52	(34)	BITSTRING	0	CSVRTLSRSNBADREQUESTTYPE	"X'00000809'" Meaning: Request type is not valid. Action: Check for possible storage overlay of the parameter list.
52	(34)	BITSTRING	0	CSVRTLSRSNBADESTAEX	"X'0000080A'" Meaning: Unable to establish ESTAEX. "xxxx" contains ESTAE(X) return code. Action: Refer to documentation for ESTAEX return code "xxxx".
52	(34)	BITSTRING	0	CSVRTLSRSNRESERVEDNOT0	"X'0000080B'" Meaning: Reserved field not 0. Action: Check for possible storage overlay of the parameter list.

Table 608. Structure RTAAHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	BITSTRING	0	CSVRTLSRSNBADOUTXTLSTALET	"X'0000080C'" Meaning: Bad Outxtlst ALET. Action: Make sure that the ALET of the OUTXTLST area is valid. The access register might not have been set up correctly.
52	(34)	BITSTRING	0	CSVRTLSRSNBADPARMLISTALET	"X'0000080D'" Meaning: Bad parmlist ALET. Action: Make sure that the ALET of the parameter list is valid. The access register might not have been set up correctly.
52	(34)	BITSTRING	0	CSVRTLSRSNBADVERSION	"X'0000080E'" Meaning: Bad version number. Action: Check for possible storage overlay of the parameter list.
52	(34)	BITSTRING	0	CSVRTLSRSNLIBRARYNOTFOUND	"X'00000810'" Meaning: For CONNECT or LIST request, the requested library is not defined to RTLS. Action: Make sure that you specified the correct library name.
52	(34)	BITSTRING	0	CSVRTLSRSNBADLISTTYPE	"X'00000811'" Meaning: For LIST, the ListType value is incorrect. Action: Check for possible storage overlay of the parameter list.
52	(34)	BITSTRING	0	CSVRTLSRSNBADCONTOKEN	"X'0000082C'" Meaning: For LOAD, DELETE, or DISCONNECT the input contoken does not represent a valid connection. Action: Make sure that you specified the connect token that was returned by the CONNECT request.

Table 608. Structure RTAAHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	BITSTRING	0	CSVRTLSRSNMODULENOTLOADED	"X'0000082D'" Meaning: For LOAD, the module could not be loaded. A valid copy of the module was not located within the logical library represented by the connect token. If you are authorized, the only copy might have been within an unauthorized library. There might not have been enough storage available to satisfy the request to load the module. Action: Make sure that you specified the correct connect token and correct module name. If you are authorized, make sure that the library containing the module is authorized. When the field designated by the OUTEPA parameter is non-zero, it contains additional diagnostic information. That information is in the format 000cccrr where ccc represents a system completion code, and rr the reason code associated with that completion code. See the system codes publication, for further information.
52	(34)	BITSTRING	0	CSVRTLSRSNMODADDRNOTVALID	"X'0000082E'" Meaning: For DELETE, the provided address does not represent a module previously loaded by the LOAD request. Action: Make sure that you specified the correct connect token and correct module address.
52	(34)	BITSTRING	0	CSVRTLSRSNBADTCBADDR	"X'0000082F'" Meaning: The provided TCBADDR parameter does not specify a task that either is the current task or an ancestor task. The oldest task allowed is the connecting task. Alternately, the caller was not authorized. Action: Make sure that you specified the correct TCBADDR and that you are authorized.

Table 608. Structure RTAAHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	BITSTRING	0	CSVRTLSRSNBADTASK	"X'00000830'" Meaning: The task issuing a LOAD or DELETE request is neither the connecting task nor a subtask of that task. The task issuing a DISCONNECT request is not the connecting task. Action: Make sure that you use the LOAD, DELETE, and DISCONNECT requests only from a proper task.
52	(34)	BITSTRING	0	CSVRTLSRSNBADOUTXTLST	"X'00000831'" Meaning: Unable to access the OutXtlst area. Action: Check that you provided a valid area.
52	(34)	BITSTRING	0	CSVRTLSRSNBADOUTXTLSTCONTENTS	"X'00000832'" Meaning: The RtlsXtlNumEntriesProvided field had an incorrect value. Action: Fill in the RtlsXtlNumEntriesProvided area using equate symbol RtlsXtlMaxNumEntries prior to invoking the macro.
	.... 11..			CSVRTLSRC_ENV	"X'0000000C'" Meaning: Environmental error Action: Refer to action provided with the reason code.
52	(34)	BITSTRING	0	CSVRTLSRSNNOSTORAGE	"X'00000C01'" Meaning: No storage is available to complete the request. Action: Contact your system programmer. There might be a common storage shortage.
52	(34)	BITSTRING	0	CSVRTLSRSNTOOMANYCONNECTIONS	"X'00000C02'" Meaning: The limit of 32 connections from an address space by unauthorized callers been reached. Action: Restructure your program so that it requests fewer connections.
52	(34)	BITSTRING	0	CSVRTLSRSNLOADDELETEINPROCESS	"X'00000C03'" Meaning: For the disconnect request, at least one load or delete request is still in process. Action: Avoid requesting a disconnect when there are loads or delete requests still being done. If the load or delete is being done from a subtask, your program could wait for that subtask to complete before issuing the disconnect request.

Table 608. Structure RTAAHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	BITSTRING	0	CSVRTLSRSNTASKINRTLS	"X'00000C04'" Meaning: The issuing task is currently processing an RTLS request. Another request during this time is not allowed. Action: Avoid issuing an RTLS request from a program running as an interrupt request block (IRB) when the interrupted program is processing an RTLS request. Bit STCBINRT in the STCB data area will be on if the interrupted program is in this state.
52	(34)	BITSTRING	0	CSVRTLSRSNNOTAVAILABLE	"X'00000CFF'" Meaning: CSVRTLS has been withdrawn as of z/OS 1.12. Action: Change your program not to use CSVRTLS.
		...1		CSVRTLSRC_COMPERROR	"X'00000010'" Meaning: Unexpected failure. Action: Refer to action provided with the reason code.
52	(34)	BITSTRING	0	CSVRTLSRSNCOMPERROR	"X'00001001'" Meaning: Unexpected failure. The state of the request is unpredictable. Action: Contact your system programmer.
52	(34)	X'38'	0	RTAAHDR_LEN	"*-RTAAHDR"

Table 609. Structure RTAAPH

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RTAAPH	RTAAPH Record data format
0	(0)	ADDRESS	4	RTAAPHNEXTADDR	Address of next RTAAPH. RTAAHNumPH must be used to determine how far along this chain to go.
4	(4)	ADDRESS	4	RTAAPHFIRSTDSADDR	Address of first RTAADS for this RTAAPH
8	(8)	ADDRESS	4	RTAAPHFIRSTMOADDR	Address of first RTAAMO for this RTAAPH
12	(C)	ADDRESS	4	RTAAPHFIRSTPLADDR	Address of first RTAAPL for this RTAAPH
16	(10)	CHARACTER	8	RTAAPHNAME	Name of physical data set
24	(18)	SIGNED	4	RTAAPHSEQNUM	Sequence number
28	(1C)	ADDRESS	4	RTAAPHDCBADDR	This is the address of the DCB, in common storage, associated with the physical library.
28	(1C)	ADDRESS	4	RTAAPHDCB@	This is the address of the DCB, in common storage, associated with the physical library.
32	(20)	SIGNED	4	RTAAPHNUMDS	Number of RTAADS entries associated with this physical data set

Table 609. Structure RTAAPH (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	SIGNED	4	RTAAPHNUMMO	Number of RTAAMO entries associated with this physical data set
40	(28)	SIGNED	4	RTAAPHNUMPL	Number of RTAAPL entries associated with this physical data set
44	(2C)	BITSTRING	1	RTAAPHFLAGS	Flags
Bit definitions:					
		1...		RTAAPHDELETEPENDING	"X'80'"
		.1..		RTAAPHCACHEBELOWISFULL	"X'40'"
		..1.		RTAAPHCACHEABOVEISFULL	"X'20'"
45	(2D)	CHARACTER	3		Reserved
48	(30)	SIGNED	4	RTAAPHMAXBELOW	Limitation (in bytes) of below-16M common for modules
52	(34)	SIGNED	4	RTAAPHBELOWUSED	Number of bytes used of below-16M common for modules
56	(38)	SIGNED	4	RTAAPHMAXABOVE	Limitation (in bytes) of above-16M common for modules. 0 indicates that there is no limit
60	(3C)	SIGNED	4	RTAAPHABOVEUSED	Number of bytes used of below-16M common for modules
64	(40)	SIGNED	4	RTAAPHFULLCACHELIMIT	Limit of number of times the physical library cache limit could not meet the needs for the module being loaded, before the cache is actually marked as being full.
68	(44)	SIGNED	4	RTAAPHFULLCACHECOUNT	Number of times that the physical library cache limit could not meet the needs for the module being loaded.
68	(44)	X'48'	0	RTAAPH_LEN	"*-RTAAPH"

Table 610. Structure RTAADS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RTAADS	RTAADS Record data format
0	(0)	ADDRESS	4	RTAADSNEXTADDR	Address of next RTAADS. RTAAPHNumDS must be used to determine how far along this chain to go.
4	(4)	CHARACTER	2		UNUSED
6	(6)	CHARACTER	6	RTAADSVOLSER	Volume ID. Represents status as of last allocation
12	(C)	CHARACTER	44	RTAADSNAME	Data set name.
12	(C)	X'38'	0	RTAADS_LEN	"*-RTAADS"

Table 611. Structure RTAAMO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RTAAMO	RTAAMO Record data format

Table 611. Structure RTAAMO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	ADDRESS	4	RTAAMONEXTADDR	Address of next RTAAMO. RTAAPHNumMO must be used to determine how far along this chain to go.
4	(4)	BITSTRING	1	RTAAMOFLAGS	Flags
Bit definitions:					
		1...		RTAAMOPRELOADREQUESTED	"X'80'"
		.1..		RTAAMOPRELOADSUCCESSFUL	"X'40'"
5	(5)	CHARACTER	3		UNUSED
8	(8)	ADDRESS	4	RTAAMOEPADDR	Entry-point address
12	(C)	ADDRESS	4	RTAAMOLOADPTADDR1	Load point
16	(10)	SIGNED	4	RTAAMOLENGTH1	Length
20	(14)	ADDRESS	4	RTAAMOLOADPTADDR2	Load point 2 (may be 0)
24	(18)	SIGNED	4	RTAAMOLENGTH2	Length (may be 0)
28	(1C)	CHARACTER	8	RTAAMONAME	Module name
28	(1C)	X'24'	0	RTAAMO_LEN	"*-RTAAMO"

Table 612. Structure RTAALO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RTAALO	RTAALO Record data format
0	(0)	ADDRESS	4	RTAALONEXTADDR	Address of next RTAALO. RTAAHNumLO must be used to determine how far along this chain to go.
4	(4)	ADDRESS	4	RTAALOFIRSTLPHADDR	Address of first RTAALPH for this RTAALO
8	(8)	ADDRESS	4	RTAALOFIRSTMOADDR	Address of first RTAAMO for this RTAALO
12	(C)	ADDRESS	4	RTAALOFIRSTLUADDR	Address of first RTAALU for this RTAALO
16	(10)	CHARACTER	8	RTAALONAME	Name of logical data set
24	(18)	CHARACTER	8	RTAALOVERSION	Version name
32	(20)	SIGNED	4	RTAALOSEQNUM	Sequence number
36	(24)	CHARACTER	4		UNUSED
40	(28)	SIGNED	4	RTAALONUMLPH	Number of RTAALPH entries associated with this logical data set
44	(2C)	SIGNED	4	RTAALONUMMO	Number of RTAAMO entries associated with this logical data set
48	(30)	SIGNED	4	RTAALONUMLU	Number of RTAALU entries associated with this logical data set
52	(34)	BITSTRING	1	RTAALOFLAGS	Flags
Bit definitions:					
		1...		RTAALODELETEPENDING	"X'80'"
		.1..		RTAALODEFAULT	"X'40'"
53	(35)	BITSTRING	1	RTAALOSECCHECK	See equates beginning with RtaaloSecCheck for values

Table 612. Structure RTAALO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
54	(36)	SIGNED	2	RTAALOLIBRARYID	This is the internal ID that identifies the logical library
56	(38)	CHARACTER	8		Reserved
64	(40)	SIGNED	4	RTAALONUMREQUESTS	Number of times that the logical library was used successfully to load a module. This is the total of the following two fields plus those cases where neither the cache nor LleJPQ was used
68	(44)	SIGNED	4	RTAALONUMREQUESTSFROMCACHE	Number of times that the logical library cache was used to load a module.
72	(48)	SIGNED	4	RTAALONUMREQUESTSFROMCSV	Number of times that the contents supervisor blocks were used to locate a previously fetched copy of the module (hence avoiding a new fetch)
76	(4C)	SIGNED	4	RTAALONUMREQUESTSFROMLLA	Number of times that the LLA located the copy to use
76	(4C)	X'1'	0	RTAALOSECCHECKYES	"1"
76	(4C)	X'2'	0	RTAALOSECCHECKNO	"2"
76	(4C)	X'50'	0	RTAALO_LEN	"*-RTAALO"

Table 613. Structure RTAALPH

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RTAALPH	RTAALPH Record data format
0	(0)	ADDRESS	4	RTAALPHNEXTADDR	Address of next RTAALPH. RTAALONumLPH must be used to determine how far along this chain to go.
4	(4)	CHARACTER	8	RTAALPHNAME	Physical data set name
12	(C)	SIGNED	4	RTAALPHSEQNUM	Sequence number
16	(10)	CHARACTER	4		Reserved
16	(10)	X'14'	0	RTAALPH_LEN	"*-RTAALPH"

Table 614. Structure RTAALU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RTAALU	RTAALU Record data format
0	(0)	ADDRESS	4	RTAALUNEXTADDR	Address of next RTAALU. RTAALONumLU must be used to determine how far along this chain to go.
4	(4)	SIGNED	2	RTAALUASID	ASID
6	(6)	CHARACTER	2		Unused
8	(8)	CHARACTER	8	RTAALUJOBNAME	Jobname
8	(8)	X'10'	0	RTAALU_LEN	"*-RTAALU"

Table 615. Structure RTAAPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RTAAPL	RTAAPL Record data format
0	(0)	ADDRESS	4	RTAAPLNEXTADDR	Address of next RTAAPL. RTAAPHNumPL must be used to determine how far along this chain to go.
4	(4)	CHARACTER	8	RTAAPLNAME	Logical name
12	(C)	CHARACTER	8	RTAAPLVERSION	Version
20	(14)	SIGNED	4	RTAAPLSEQNUM	Sequence number
24	(18)	CHARACTER	4		Reserved
24	(18)	X'1C'	0	RTAAPL_LEN	"*-RTAAPL"

Table 616. Structure RTLSXTL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RTLSXTL	Extent-list format
0	(0)	SIGNED	4	RTLSXTLNUMENTRIESPROVIDED	This should be initialized to RtlsXtlMaxNumEntries (16) prior to calling CSVRTLS REQUEST=LOAD.
4	(4)	SIGNED	4	RTLSXTLNUMENTRIES	The number of entries that follow.
8	(8)	CHARACTER	128	RTLSXTLENTRIES	Entries area. Entries are contigous. Each is mapped by RTLSXTLE
8	(8)	X'10'	0	RTLSXTLMAXNUMENTRIES	"16"
8	(8)	X'88'	0	RTLSXTL_LEN	"*-RTLSXTL"

Table 617. Structure RTLSXTLE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RTLSXTLE	Extent-list entry format
0	(0)	ADDRESS	4	RTLSXTLELOADPTADDR	Segment load point address
4	(4)	SIGNED	4	RTLSXTLELENGTH	Segment length
4	(4)	X'8'	0	RTLSXTLE_LEN	"*-RTLSXTLE"

Table 618. Cross Reference for CSVRTAA

Name	Offset	Hex Tag
CSVRTLSRC_COMPERROR	34	10
CSVRTLSRC_ENV	34	C
CSVRTLSRC_INVPARM	34	8
CSVRTLSRC_OK	34	0
CSVRTLSRC_WARN	34	4
CSVRTLSRSNALIASESEXIST	34	402
CSVRTLSRSNBADANSAREA	34	807
CSVRTLSRSNBADANSAREAALET	34	806
CSVRTLSRSNBADANSLEN	34	808
CSVRTLSRSNBADCONTOKEN	34	82C
CSVRTLSRSNBADESTAEX	34	80A
CSVRTLSRSNBADLISTTYPE	34	811
CSVRTLSRSNBADOUTXTLST	34	831

Table 618. Cross Reference for CSVRTAA (continued)

Name	Offset	Hex Tag
CSVRTLSRSNBADOUTXTLSTALET	34	80C
CSVRTLSRSNBADOUTXTLSTCONTENTS	34	832
CSVRTLSRSNBADPARMLIST	34	801
CSVRTLSRSNBADPARMLISTALET	34	80D
CSVRTLSRSNBADREQUESTTYPE	34	809
CSVRTLSRSNBADTASK	34	830
CSVRTLSRSNBADTCBADDR	34	82F
CSVRTLSRSNBADVERSION	34	80E
CSVRTLSRSNCODEMASK	34	FFFF
CSVRTLSRSNCOMPERROR	34	1001
CSVRTLSRSNLIBRARYNOTFOUND	34	810
CSVRTLSRSNLISTNOMATCHES	34	401
CSVRTLSRSNLOADDELETEINPROCESS	34	C03
CSVRTLSRSNMODADDRNOTVALID	34	82E
CSVRTLSRSNMODULENOTLOADED	34	82D
CSVRTLSRSNNOSTORAGE	34	C01
CSVRTLSRSNNOTALLDATARETURNED	34	403
CSVRTLSRSNNOTAUTHORIZED	34	804
CSVRTLSRSNNOTAVAILABLE	34	CFF
CSVRTLSRSNRESERVEDNOT0	34	80B
CSVRTLSRSNTASKINRTLS	34	C04
CSVRTLSRSNTOOMANYCONNECTIONS	34	C02
RTAADS	0	
RTAADS_LEN	C	38
RTAADSNAME	C	
RTAADSNEXTADDR	0	
RTAADSVOLSER	6	
RTAAHABOVEUSED	28	
RTAAHBELOWUSED	20	
RTAAHCACHEABOVEISFULL	2C	20
RTAAHCACHEBELOWISFULL	2C	40
RTAAHDR	0	
RTAAHDR_LEN	34	38
RTAAHFIRSTLOADDR	18	
RTAAHFIRSTPHADDR	14	
RTAAHFLAGS	2C	
RTAAHFULLCACHECOUNT	34	
RTAAHFULLCACHELIMIT	30	
RTAAHMAXABOVE	24	
RTAAHMAXBELOW	1C	
RTAAHNOABOVE16M	2C	80
RTAAHNUMLO	4	
RTAAHNUMLOREM	C	
RTAAHNUMPH	0	
RTAAHNUMPHREM	8	
RTAAHTLEN	10	
RTAALO	0	
RTAALO_LEN	4C	50
RTAALODEFAULT	34	40

Table 618. Cross Reference for CSVRTAA (continued)

Name	Offset	Hex Tag
RTAALODELETEPENDING	34	80
RTAALOFIRSTLPHADDR	4	
RTAALOFIRSTLUADDR	C	
RTAALOFIRSTMOADDR	8	
RTAALOFLAGS	34	
RTAALOLIBRARYID	36	
RTAALONAME	10	
RTAALONEXTADDR	0	
RTAALONUMLPH	28	
RTAALONUMLU	30	
RTAALONUMMO	2C	
RTAALONUMREQUESTS	40	
RTAALONUMREQUESTSFROMCACHE	44	
RTAALONUMREQUESTSFROMCSV	48	
RTAALONUMREQUESTSFROMLLA	4C	
RTAALOSECCHECK	35	
RTAALOSECCHECKNO	4C	2
RTAALOSECCHECKYES	4C	1
RTAALOSEQNUM	20	
RTAALOVERSION	18	
RTAALPH	0	
RTAALPH_LEN	10	14
RTAALPHNAME	4	
RTAALPHNEXTADDR	0	
RTAALPHSEQNUM	C	
RTAALU	0	
RTAALU_LEN	8	10
RTAALUASID	4	
RTAALUJOBNAME	8	
RTAALUNEXTADDR	0	
RTAAMO	0	
RTAAMO_LEN	1C	24
RTAAMOEPADDR	8	
RTAAMOFLAGS	4	
RTAAMOLENGTH1	10	
RTAAMOLENGTH2	18	
RTAAMOLOADPTADDR1	C	
RTAAMOLOADPTADDR2	14	
RTAAMONAME	1C	
RTAAMONEXTADDR	0	
RTAAMOPRELOADREQUESTED	4	80
RTAAMOPRELOADSUCCESSFUL	4	40
RTAAPH	0	
RTAAPH_LEN	44	48
RTAAPHABOVEUSED	3C	
RTAAPHBELOWUSED	34	
RTAAPHCACHEABOVEISFULL	2C	20
RTAAPHCACHEBELOWISFULL	2C	40
RTAAPHDCB@	1C	

Table 618. Cross Reference for CSVRTAA (continued)

Name	Offset	Hex Tag
RTAAPHDCBADDR	1C	
RTAAPHDELETEPENDING	2C	80
RTAAPHFIRSTDSADDR	4	
RTAAPHFIRSTMOADDR	8	
RTAAPHFIRSTPLADDR	C	
RTAAPHFLAGS	2C	
RTAAPHFULLCACHECOUNT	44	
RTAAPHFULLCACHELIMIT	40	
RTAAPHMAXABOVE	38	
RTAAPHMAXBELOW	30	
RTAAPHNAME	10	
RTAAPHNEXTADDR	0	
RTAAPHNUMDS	20	
RTAAPHNUMMO	24	
RTAAPHNUMPL	28	
RTAAPHSEQNUM	18	
RTAAPL	0	
RTAAPL_LEN	18	1C
RTAAPLNAME	4	
RTAAPLNEXTADDR	0	
RTAAPLSEQNUM	14	
RTAAPLVERSION	C	
RTLSXTL	0	
RTLSXTL_LEN	8	88
RTLSXTLE	0	
RTLSXTLE_LEN	4	8
RTLSXTLELENGTH	4	
RTLSXTLELOADPTADDR	0	
RTLSXTLENTRIES	8	
RTLSXTLMAXNUMENTRIES	8	10
RTLSXTLNUMENTRIES	4	
RTLSXTLNUMENTRIESPROVIDED	0	

Chapter 141. CSVTTEST Information

CSVTTEST Programming Interface Information

CSVTTEST is a programming interface.

CSVTTEST Heading Information

Common Name:	Contents Supervisor TSO Test Interface
Macro ID:	CSVTTEST
DSECT Name:	CSTT
Owning Component:	Contents Supervision (SC1CJ)
Eye-Catcher ID:	CSTT Offset: 0 Length: 4
Storage Attributes:	Subpool: 205 Key: 0
Size:	CSTT -- X'0020' bytes
Created by:	CSVGETMD CSVSBRTN
Pointed to by:	Register 1
Serialization:	None
Function:	The CSTT maps information passed across the SVC 61 (TSO Test) interface.

CSVTTEST mapping

Table 619. Structure CSTT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CSTT	, mapping of interface with TSO TEST used across SVC(61)
0	(0)	CHARACTER	4	CSTT_EYECATCHER	= 'CSTT'
4	(4)	SIGNED	1	CSTT_LEVEL	Level number
5	(5)	BITSTRING	3	CSTT_FLAGS(0)	Three bytes of flags
5	(5)	BITSTRING	1	CSTT_FLAG1(0)	Flag byte
		1...		CSTT_DELETE	"X'80'" =1 a DELETE is in process
		.1..		CSTT_FETCH	"X'40'" =1 a FETCH is in process
		..1.		CSTT_PDS	"X'20'" =1 PDS is in use
		...1		CSTT_PDSE	"X'10'" =1 PDSE is in use
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	4	CSTT_DE@	Pointer to the PDS2 directory entry
12	(C)	ADDRESS	4	CSTT_CDE@	Pointer to the CDE
16	(10)	ADDRESS	4	CSTT_DCB@	Pointer to the DCB
20	(14)	CHARACTER	8	CSTT_NAME	Name of entry being deleted
28	(1C)	ADDRESS	4	CSTT_EPA@	Address of entry being deleted
28	(1C)	X'1'	0	CSTTLNUM	"1" Level number of the CSTT
28	(1C)	X'E2E3E3'	0	CSTTTEXT	"C'CSTT'" Value for CSTTID.
28	(1C)	X'20'	0	CSTT_LEN	"*-CSTT"

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CSVTTEST mapping

Table 620. Cross Reference for CSVTTEST

Name	Offset	Hex Tag
CSTT	0	
CSTT_CDE@	C	
CSTT_DCB@	10	
CSTT_DE@	8	
CSTT_DELETE	5	80
CSTT_EPA@	1C	
CSTT_EYECATCHER	0	
CSTT_FETCH	5	40
CSTT_FLAGS	5	
CSTT_FLAG1	5	
CSTT_LEN	1C	20
CSTT_LEVEL	4	
CSTT_NAME	14	
CSTT_PDS	5	20
CSTT_PDSE	5	10
CSTTLNUM	1C	1
CSTTTEXT	1C	E2E3E3

Chapter 142. CSVXMENV Information

CSVXMENV Programming Interface Information

CSVXMENV is a programming interface.

CSVXMENV Heading Information

Common Name:	Mapping of XMENV parameter for SYNCHX
Macro ID:	CSVXMENV
DSECT Name:	XMENV XMENV1
Owning Component:	Contents Supervision (SC1CJ)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: caller-provided Key: caller-provided Residency: caller-provided
Size:	XMENV -- X'000A' bytes XMENV1 -- X'0014' bytes
Created by:	Created by caller, passed via XMENV=xxx on SYNCHX
Pointed to by:	n/a
Serialization:	n/a
Function:	This maps the XMENV parameter information. DSECT XMENV maps the basic XMENV information. Use this when not providing the extended information. DSECT XMENV1 maps the extended XMENV information. Use this when providing the extended information.

CSVXMENV mapping

Table 621. Structure XMENV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XMENV	
0	(0)	SIGNED	2	XMENVLEN	Length of XMENV structure
2	(2)	SIGNED	2	XMENVPKM	PKM value to produce the PKM for the target routine
4	(4)	SIGNED	2	XMENVSASN	SASN value defining the target routine secondary ASN
6	(6)	SIGNED	2	XMENVEAX	EAX value defining the target routine EAX
8	(8)	SIGNED	2	XMENVPASN	PASN value defining the target routine primary ASN
8	(8)	X'A'	0	XMENV_LEN	"*-XMENV"

Table 622. Structure XMENV1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XMENV1	
0	(0)	SIGNED	2	XMENV1LEN	Length of XMENV1 structure
2	(2)	SIGNED	2	XMENV1PKM	PKM value to produce the PKM for the target routine

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Table 622. Structure XMENV1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	SIGNED	2	XMENV1SASN	SASN value defining the target routine secondary ASN
6	(6)	SIGNED	2	XMENV1EAX	EAX value defining the target routine EAX
8	(8)	SIGNED	2	XMENV1PASN	PASN value defining the target routine primary ASN
10	(A)	CHARACTER	2		Reserved
12	(C)	SIGNED	4	XMENV1PASTEIN	Primary ASTE instance number
16	(10)	SIGNED	4	XMENV1SASTEIN	Secondary ASTE instance number
16	(10)	X'14'	0	XMENV1_LEN	"*-XMENV1"

Table 623. Cross Reference for CSVXMENV

Name	Offset	Hex Tag
XMENV	0	
XMENV_LEN	8	A
XMENVEAX	6	
XMENVLEN	0	
XMENVPASN	8	
XMENVPKM	2	
XMENVSASN	4	
XMENV1	0	
XMENV1_LEN	10	14
XMENV1EAX	6	
XMENV1LEN	0	
XMENV1PASN	8	
XMENV1PASTEIN	C	
XMENV1PKM	2	
XMENV1SASN	4	
XMENV1SASTEIN	10	

Chapter 143. CTSS Information

CTSS Programming Interface Information

CTSS is a programming interface.

CTSS Heading Information

Common Name:	Component Trace Start/Stop Parmlist
Macro ID:	ITTCTSS
DSECT Name:	CTSS CTSSASIT CTSSJOBT CTSSOPTL
Owning Component:	Component Trace (SCTRC)
Eye-Catcher ID:	CTSS Offset: 0 Length: 4
Storage Attributes:	Subpool: 253 Key: 0
Size:	84 bytes
Created by:	ITTCTSER entry point of ITTCT ITTOCT entry point of ITTOC ITTOA INITIALIZED BY: ITTOCT, ITTCTSER, ITTOA ITTOA initializes the following fields when this parameter list is passed to a component trace display exit routine by the D TRACE operator command
Pointed to by:	Fullword at the address contained in register one when routine is invoked.
Serialization:	None
Function:	Parameter list passed to a component trace start/stop routine by the TRACE CT operator command processor or CTRACE DEFINE processing with a Parmlib member that specified to turn a component trace on. Parameter list passed to a component trace display exit routine by the D TRACE operator command processor.

CTSS mapping

Table 624. Structure CTSS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTSS	
0	(0)	CHARACTER	4	CTSSID	* 'CTSS' control block id
0	(0)	X'E3E2E2'	0	CTSSIDC	"C'CTSS'" * 'CTSS' parameter list id string
4	(4)	CHARACTER	2	CTSSVER	* 'CTSS' version
4	(4)	X'F0F2'	0	CTSSVERC	"CTSSVER2" * 'CTSS' current version
4	(4)	X'F0F1'	0	CTSSVER1	"C'01'" * 'CTSS' version HBB3310
4	(4)	X'F0F2'	0	CTSSVER2	"C'02'" * 'CTSS' version HBB4410
6	(6)	SIGNED	2	CTSSLEN	* 'CTSS' length
8	(8)	BITSTRING	4	CTSSFLGS	* Request flags.

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Table 624. Structure CTSS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	....	....		CTSSSTRT	"X'80000000'" * Request is to turn on a component trace. This bit is set when a TRACE CT ON command is issued and the component trace state is OFF or MIN.
	....	....		CTSSSTOP	"X'40000000'" * Request is to turn off a component trace.
	....	....		CTSSLKHD	"X'20000000'" * Request is to make a component trace LIKEHEAD, ie, modify the trace so that it has the same status and attributes as its head level trace. This bit applies to SUB level traces only. See CTSSHDST.
	....	....		CTSSSUBD	"X'10000000'" * Request is to delete a component trace (CTRACE DELETE macro was issued by the component). This bit applies to SUB level and HEAD level traces and differentiates an off request from a delete request. When this bit is on, a start/stop routine can delete its buffers.
	....	....		CTSSRNSS	"X'08000000'" * This bit can be set by a HEAD start/stop routine to request that CTRACE pass control to the SUB start/stop routines. For CTRACE DELETE processing only, this bit is set by CTRACE before the HEAD start/stop routine is called, and if the component does not want SUB level trace start/stop routines to receive control, the component must turn this bit off. For CTRACE DELETE processing and TRACE CT OFF commands, this bit applies to all SUB level traces. For TRACE CT ON commands, this bit applies to SUB level traces in the LIKEHEAD state.

Table 624. Structure CTSS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		....		CTSSCOPT	"X'04000000'" * Request is to trace with component options, OPTIONS=() was specified. If no options were specified in the parenthesis (CTSSOPTP=0) then this is a request to turn off all component trace options. A component trace that supports minimum options (CTRACE DEFINE MINOPS=options was specified), must revert to the those minimum options. This bit applies to component options only and does not effect buffer size.
		....		CTSSCASI	"X'02000000'" * Request is to trace by ASID, ASID=() was specified. This bit applies when the component trace supports filtering by ASID (CTRACE DEFINE ASIDS=YES was specified).
		....		CTSSCJOB	"X'01000000'" * Request is to trace by JOBNAME, JOBNAME=() was specified. This bit applies when the component trace support filtering by jobname (CTRACE DEFINE JOBS=YES was specified).
8	(8)	BITSTRING	0	CTSSCBUF	"X'00800000'" * Request specified buffer size. nnnK, nnnM, or BUFSIZE(nnnnK|M) was specified. This bit applies when the component trace supports buffer size specification (CTRACE DEFINE BUFFER=YES was specified).
8	(8)	BITSTRING	0	CTSSHDST	"X'00400000'" * State of HEAD (valid when CTSSLKHD is on), ='1'B HEAD is ON, ='0'B HEAD is OFF
8	(8)	BITSTRING	0	CTSSMOD	"X'00200000'" * Request is to modify an active component trace. This bit is set when a TRACE CT ON command is issued and the component trace state is ON and the component trace can be modified (CTRACE DEFINE MOD=YES was specified).
8	(8)	BITSTRING	0	CTSSWCON	"X'00100000'" * Request was made to connect a trace to an external writer, TRACE CT,ON....WTR=jobname was specified. CTSSWTKN is set. This bit applies when the component trace supports the external writer (CTRACE DEFINE WTR=YES was specified).

Table 624. Structure CTSS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	BITSTRING	0	CTSSWDIS	"X'00080000'" * Request was made to disconnect a trace from an external writer. One of the following was specified: TRACE CT,ON....WTR=DISCONNECT operator command or TRACE CT,ON....WTR(DISCONNECT) in a parmlib member or TRACE CT,OFF... operator command or CTRACE DELETE macro. This bit applies when the component trace supports the external writer (CTRACE DEFINE WTR=YES was specified).
		.... 1...		CTSSDSPI	"X'00000008'" * Request is to provide display information. Display exit must set one of: CTSSDON or CTSSDOFF or CTSSDMIN. Display exit may set CTSSBUFS and CTSSOPTL. Any other fields in the CTSS should be ignored by the display exit and will be ignored by CTRACE processing.
		.... .1..		CTSSDON	"X'00000004'" * Display status. If on, the component trace display will indicate that the component trace mode is on.
		.... ..1.		CTSSDOFF	"X'00000002'" * Display status. If on, the component trace display will indicate that the component trace mode is off.
		1		CTSSDMIN	"X'00000001'" * Display status. If on, the component trace display will indicate that the component trace mode is min.
8	(8)	X'80'	0	BIT0	"128"
8	(8)	X'40'	0	BIT1	"64"
8	(8)	X'20'	0	BIT2	"32"
8	(8)	X'10'	0	BIT3	"16"
8	(8)	X'8'	0	BIT4	"8"
8	(8)	X'4'	0	BIT5	"4"
8	(8)	X'2'	0	BIT6	"2"
8	(8)	X'1'	0	BIT7	"1"
8	(8)	BITSTRING	1	CTSS1FLGS	* Request flags - byte 1
		1...		CTSS1STRT	"BIT0" * Request is to turn on a component trace. This bit is set when a TRACE CT ON command is issued and the component trace state is OFF or MIN.
		.1..		CTSS1STOP	"BIT1" * Request is to turn off a component trace.

Table 624. Structure CTSS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		CTSS1LKHD	"BIT2" * Request is to make a component trace LIKEHEAD, ie, modify the trace so that it has the same status and attributes as its head level trace. This bit applies to SUB level traces only. See CTSSHDST.
		...1		CTSS1SUBD	"BIT3" * Request is to delete a component trace (CTRACE DELETE macro was issued by the component). This bit applies to SUB level and HEAD level traces and differentiates an off request from a delete request. When this bit is on, a start/stop routine can delete its buffers.
		.... 1...		CTSS1RNSS	"BIT4" * This bit can be set by a HEAD start/stop routine to request that CTRACE pass control to the SUB start/stop routines. For CTRACE DELETE processing only, this bit is set by CTRACE before the HEAD start/stop routine is called, and if the component does not want SUB level trace start/stop routines to receive control, the component must turn this bit off. For CTRACE DELETE processing and TRACE CT OFF commands, this bit applies to all SUB level traces. For TRACE CT ON commands, this bit applies to SUB level traces in the LIKEHEAD state.
		.... .1..		CTSS1COPT	"BIT5" * Request is to trace with component options, OPTIONS=() was specified. If no options were specified in the parenthesis (CTSSOPTP=0) then this is a request to turn off all component trace options. A component trace that supports minimum options (CTRACE DEFINE MINOPS=options was specified), must revert to the those minimum options. This bit applies to component options only and does not effect buffer size.
		.... ..1.		CTSS1CASI	"BIT6" * Request is to trace by ASID, ASID=() was specified. This bit applies when the component trace supports filtering by ASID (CTRACE DEFINE ASIDS=YES was specified).

Table 624. Structure CTSS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		CTSS1CJOB	"BIT7" * Request is to trace by JOBNAME, JOBNAME=() was specified. This bit applies when the component trace support filtering by jobname (CTRACE DEFINE JOBS=YES was specified).
9	(9)	BITSTRING	1	CTSS2FLGS	* Request flags - byte 2
		1...		CTSS2CBUF	"BIT0" * Request specified buffer size. nnnK, nnnM, or BUFSIZE(nnnnK|M) was specified. This bit applies when the component trace supports buffer size specification (CTRACE DEFINE BUFFER=YES was specified).
		.1..		CTSS2HDST	"BIT1" * State of HEAD (valid when CTSSLKHD is on), ='1'B HEAD is ON, ='0'B HEAD is OFF
		..1.		CTSS2MOD	"BIT2" * Request is to modify an active component trace. This bit is set when a TRACE CT ON command is issued and the component trace state is ON and the component trace can be modified (CTRACE DEFINE MOD=YES was specified).
		...1		CTSS2WCON	"BIT3" * Request was made to connect a trace to an external writer, TRACE CT,ON....WTR=jobname was specified. CTSSWTKN is set. This bit applies when the component trace supports the external writer (CTRACE DEFINE WTR=YES was specified).
		.... 1...		CTSS2WDIS	"BIT4" * Request was made to disconnect a trace from an external writer. One of the following was specified: TRACE CT,ON....WTR=DISCONNECT operator command or TRACE CT,ON....WTR(DISCONNECT) in a parmlib member or TRACE CT,OFF... operator command or CTRACE DELETE macro. This bit applies when the component trace supports the external writer (CTRACE DEFINE WTR=YES was specified).
10	(A)	BITSTRING	1	CTSS3FLGS	* Request flags - byte 3
11	(B)	BITSTRING	1	CTSS4FLGS	* Request flags - byte 4

Table 624. Structure CTSS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		CTSS4DSPI	"BIT4" * Request is to provide display information. Display exit must set one of: CTSSDON or CTSSDOFF or CTSSDMIN. Display exit may set CTSSBUFS and CTSSOPTL. Any other fields in the CTSS should be ignored by the display exit and will be ignored by CTRACE processing.
		.... .1..		CTSS4DON	"BIT5" * Display status. If on, the component trace display will indicate that the component trace mode is on.
		.... ..1.		CTSS4DOFF	"BIT6" * Display status. If on, the component trace display will indicate that the component trace mode is off.
		1		CTSS4DMIN	"BIT7" * Display status. If on, the component trace display will indicate that the component trace mode is min.
12	(C)	CHARACTER	4	CTSSUCMP	* requesting console id
12	(C)	CHARACTER	3		* reserved
15	(F)	CHARACTER	1	CTSSUCMP1	* requesting console id
16	(10)	SIGNED	4	CTSSBUFS	* Size of buffers in units of 1K. CTSSBUFS multiplied by 1024 determines the number of bytes requested for trace buffers. This field applies when CTSSCBUF is on and the CTSS is passed to a start/stop routine. When CTSSDSPI is on, a display exit routine can update this field with the size of buffers in units of 1K.
20	(14)	SIGNED	4	CTSSOPTP	* Pointer to component specific options mapped by CTSSOPTL or zero if no options were specified. This field applies when CTSSCOPT is on for a start/stop routine and when CTSSDSPI is on for a display exit routine.
24	(18)	SIGNED	4	CTSSASIP	* Pointer to table of ASIDs to filter on mapped by CTSSASTL or zero if no ASIDs were specified. This field applies when CTSSCASI is on.
28	(1C)	SIGNED	4	CTSSJOBP	* Pointer to table of jobnames to filter on mapped by CTSSJOBT or zero if no jobnames were specified. This field applies when CTSSCJOB is on.
32	(20)	CHARACTER	8	CTSSCART	* Command & Response Tokan

Table 624. Structure CTSS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	SIGNED	4	CTSSSNTP	* Pointer to the subname table or zero if not a SUB level trace, mapped by ITTSTAB.
44	(2C)	CHARACTER	16	CTSSUSRD	* User data. Copy of the user data that the component specified on CTRACE DEFINE USERDATA. This field may be updated by the start/stop routine.
60	(3C)	CHARACTER	8	CTSSWTKN	* Writer token. The component trace specifies this token as an input to the CTRACEWR to write buffers to an external data set.
68	(44)	SIGNED	4	CTSSW2GO	* Number of buffers that the component trace expects to write to the external dataset before the disconnect completes. This field can be set by a component trace start/stop routine to request that CTRACE processing disconnect the component trace from the external writer only after this number of buffers are written to the external data set by the component trace. This bit applies when CTSSWDIS is on and the start/stop routine is not running on behalf of a SUB level trace.
72	(48)	CHARACTER	12		* Reserved.

Table 625. Structure CTSSASIT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTSSASIT	* ASID table
0	(0)	CHARACTER	4	CTSSAHDR	* ASID table header
0	(0)	SIGNED	2	CTSSACNT	* Number of entries in table
2	(2)	SIGNED	2		* Reserved
4	(4)	SIGNED	2	CTSSASID(16)	* ASID entries

Table 626. Structure CTSSJOBT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTSSJOBT	* Jobname table
0	(0)	CHARACTER	4	CTSSJHDR	* Jobname table header
0	(0)	SIGNED	2	CTSSJCNT	* Number of entries in table
2	(2)	SIGNED	2		* Reserved
4	(4)	CHARACTER	8	CTSSJOBN(16)	* Jobname entries

Table 627. Structure CTSSOPTL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTSSOPTL	Options list
0	(0)	CHARACTER	4	CTSSOHDR	* Options list header
0	(0)	SIGNED	2	CTSSOLEN	* Length of options string
2	(2)	SIGNED	2		* Reserved
4	(4)	CHARACTER	1024	CTSSOPTS	* Unparsed options string specified by operator or parmlib member.

Table 628. Cross Reference for CTSS

Name	Offset	Hex Tag
BIT0	8	80
BIT1	8	40
BIT2	8	20
BIT3	8	10
BIT4	8	8
BIT5	8	4
BIT6	8	2
BIT7	8	1
CTSS	0	
CTSSACNT	0	
CTSSAHDR	0	
CTSSASID	4	
CTSSASIP	18	
CTSSASIT	0	
CTSSBUFS	10	
CTSSCART	20	
CTSSCASI	8	0
CTSSCBUF	8	800000
CTSSCJOB	8	0
CTSSCOPT	8	0
CTSSDMIN	8	1
CTSSDOFF	8	2
CTSSDON	8	4
CTSSDSPI	8	8
CTSSFLGS	8	
CTSSHDST	8	400000
CTSSID	0	
CTSSIDC	0	E3E2E2
CTSSJCNT	0	
CTSSJHDR	0	
CTSSJOBN	4	
CTSSJOBP	1C	
CTSSJOBT	0	
CTSSLEN	6	
CTSSLKHD	8	0
CTSSMOD	8	200000
CTSSOHDR	0	
CTSSOLEN	0	

Table 628. Cross Reference for CTSS (continued)

Name	Offset	Hex Tag
CTSSOPTL	0	
CTSSOPTP	14	
CTSSOPTS	4	
CTSSRNSS	8	0
CTSSSNTP	28	
CTSSSTOP	8	0
CTSSSTRT	8	0
CTSSSUBD	8	0
CTSSUCMP	C	
CTSSUCMP1	F	
CTSSUSRD	2C	
CTSSVER	4	
CTSSVERC	4	F0F2
CTSSVER1	4	F0F1
CTSSVER2	4	F0F2
CTSSWCON	8	100000
CTSSWDIS	8	80000
CTSSWTKN	3C	
CTSSW2GO	44	
CTSS1CASI	8	2
CTSS1CJOB	8	1
CTSS1COPT	8	4
CTSS1FLGS	8	
CTSS1LKHD	8	20
CTSS1RNSS	8	8
CTSS1STOP	8	40
CTSS1STRT	8	80
CTSS1SUBD	8	10
CTSS2CBUF	9	80
CTSS2FLGS	9	
CTSS2HDST	9	40
CTSS2MOD	9	20
CTSS2WCON	9	10
CTSS2WDIS	9	8
CTSS3FLGS	A	
CTSS4DMIN	B	1
CTSS4DOFF	B	2
CTSS4DON	B	4
CTSS4DSPI	B	8
CTSS4FLGS	B	

Chapter 144. CTXASM Information

CTXASM Programming Interface Information

CTXASM is a programming interface.

CTXASM Heading Information

Common Name:	Context Services ASM Declares
Macro ID:	CTXASM
DSECT Name:	CTXBEGCPARMLIST CTXDINTPARMLIST CTXEINTPARMLIST CTXEINT1PARMLIST CTXENDCPARMLIST CTXRCIDPARMLIST CTXSCIDPARMLIST CTXSCID2PARMLIST CTXSWCHPARMLIST CTXEPPARMLIST
Owning Component:	Context Services (SCCTX)
Eye-Catcher ID:	None
Storage Attributes:	Main Storage: N/A Virtual Storage: N/A Auxiliary Storage: N/A Subpool: N/A Key: N/A Data Space: N/A Residency: N/A
Size:	N/A
Created by:	N/A
Pointed to by:	N/A
Serialization:	N/A
Function:	CTXASM defines Context Services constants and parameter list mappings and DSECTS for programs written in the Assembler Language

CTXASM mapping

Table 629. Structure CTX_CRGSEIF_VALUE_1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTX_CRGSEIF_VALUE_1	, CRGSEIF Value 1 data
0	(0)	SIGNED	4	CTX_VALUE_1_DATA_LEN	Mapping length
4	(4)	SIGNED	4	CTX_VALUE_1_DATA_VER	Mapping version
8	(8)	SIGNED	2	CTX_VALUE_1_VER_1_DATA(0)	Version 1 data
8	(8)	CHARACTER	32	CTX_VALUE_1_RM_NAME	Resource manager name that Context Services should delegate private contexts to
8	(8)	X'1'	0	CTX_CRGSEIF_VALUE_1_VER_CONST	"1" Version constant
8	(8)	X'28'	0	CTX_CRGSEIF_VALUE_1_VER1_LEN	"40" Version 1 length

Table 630. Structure CTXBEGCPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXBEGCPARMLIST	

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Table 630. Structure CTXBEGCPARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	ADDRESS	4	CTXBEGCRETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	CTXBEGCRESOURCEMANAGERTOKENPTR	RM Token Address
8	(8)	ADDRESS	4	CTXBEGCCONTEXTTOKENPTR	Context Token Address

Table 631. Structure CTXDINTPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXDINTPARMLIST	
0	(0)	ADDRESS	4	CTXDINTRETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	CTXDINTCITOKENPTR	Context Interest Token address

Table 632. Structure CTXEINTPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXEINTPARMLIST	
0	(0)	ADDRESS	4	CTXEINTRETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	CTXEINTRESOURCEMANAGERTOKENPTR	RM Token Address
8	(8)	ADDRESS	4	CTXEINTCONTEXTTOKENPTR	Context Token Address
12	(C)	ADDRESS	4	CTXEINTMEMTERMOPTIONPTR	Memory Termination Option address
16	(10)	ADDRESS	4	CTXEINTCIDATAPTR	Context Interest Data address
20	(14)	ADDRESS	4	CTXEINTCURRENTCONTEXTTOKENPTR	Current Context Token Address address
24	(18)	ADDRESS	4	CTXEINTCITOKENPTR	Context Interest Token address
28	(1C)	ADDRESS	4	CTXEINTRETURNEDCIDATAPTR	Returned Context Interest Data address
32	(20)	ADDRESS	4	CTXEINTMULTIPLEINTERESTOPTIONPTR	Multiple Interest Option address

Table 633. Structure CTXEINT1PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXEINT1PARMLIST	
0	(0)	ADDRESS	4	CTXEINT1RETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	CTXEINT1RESOURCEMANAGERTOKENPTR	RM Token Address
8	(8)	ADDRESS	4	CTXEINT1CONTEXTTOKENPTR	Context Token Address
12	(C)	ADDRESS	4	CTXEINT1MEMTERMOPTIONPTR	Memory Termination Option address
16	(10)	ADDRESS	4	CTXEINT1CIDATAPTR	Context Interest Data address
20	(14)	ADDRESS	4	CTXEINT1CURRENTCONTEXTTOKENPTR	Current Context Token address
24	(18)	ADDRESS	4	CTXEINT1CITOKENPTR	Context Interest Token address
28	(1C)	ADDRESS	4	CTXEINT1RETURNEDCIDATAPTR	Returned Context Interest Data address
32	(20)	ADDRESS	4	CTXEINT1MULTIPLEINTERESTOPTIONPTR	Multiple Interest Option address

Table 633. Structure CTXEINT1PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	ADDRESS	4	CTXEINT1WORKMANAGERNAMEPTR	Work manager name address

Table 634. Structure CTXENDCPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXENDCPARMLIST	
0	(0)	ADDRESS	4	CTXENDCRETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	CTXENDCCONTEXTTOKENPTR	Context Token Address
8	(8)	ADDRESS	4	CTXENDCCOMPLETIONTYPEPTR	Completeion Type Address

Table 635. Structure CTXRCIDPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXRCIDPARMLIST	
0	(0)	ADDRESS	4	CTXRCIDRETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	CTXRCIDCITOKENPTR	Context Interest Token address
8	(8)	ADDRESS	4	CTXRCIDCIDATAPTR	Context Interest Data address

Table 636. Structure CTXSCIDPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXSCIDPARMLIST	
0	(0)	ADDRESS	4	CTXSCIDRETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	CTXSCIDCITOKENPTR	Context Interest Token
8	(8)	ADDRESS	4	CTXSCIDCIDATAPTR	Context Interest Data address

Table 637. Structure CTXSCID2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXSCID2PARMLIST	
0	(0)	ADDRESS	4	CTXSCID2RETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	CTXSCID2CITOKENPTR	Context Interest Token
8	(8)	ADDRESS	4	CTXSCID2CIDATAPTR	Context Interest Data address
12	(C)	ADDRESS	4	CTXSCID2CURRENTCIDATAPTR	Current Context Interest Data address

Table 638. Structure CTXSWCHPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXSWCHPARMLIST	
0	(0)	ADDRESS	4	CTXSWCHRETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	CTXSWCHCONTEXTTOKENPTR	Context Token Address
8	(8)	ADDRESS	4	CTXSWCHDISCONTEXTTOKENPTR	Disassociated Context Token

CTXASM mapping

Table 639. Structure CTXSDTAPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXSDTAPARMLIST	
0	(0)	ADDRESS	4	CTXSDTARETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	CTXSDTACONTEXTTOKENPTR	Context Token Address
8	(8)	ADDRESS	4	CTXSDTAKEYPTR	
12	(C)	ADDRESS	4	CTXSDTADATALENGTHPTR	
16	(10)	ADDRESS	4	CTXSDTADATAPTR	

Table 640. Structure CTXRDTAPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXRDTAPARMLIST	
0	(0)	ADDRESS	4	CTXRDTARETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	CTXRDTACONTEXTTOKENPTR	Context Token Address
8	(8)	ADDRESS	4	CTXRDTAKEYPTR	
12	(C)	ADDRESS	4	CTXRDTABUFFERLENGTHPTR	
16	(10)	ADDRESS	4	CTXRDTADATALENGTHPTR	
20	(14)	ADDRESS	4	CTXRDTADATAPTR	

Table 641. Structure CTXRCCPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXRCCPARMLIST	
0	(0)	ADDRESS	4	CTXRCCRETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	CTXRCCCONTEXTTOKENPTR	Context Token Address

Table 642. Structure CTX4BEGCPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTX4BEGCPARMLIST	
0	(0)	ADDRESS	8	CTX4BEGCRETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	CTX4BEGCRESOURCEMANAGERTOKENPTR	RM Token Address
16	(10)	ADDRESS	8	CTX4BEGCCONTEXTTOKENPTR	Context Token Address

Table 643. Structure CTX4DINTPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTX4DINTPARMLIST	
0	(0)	ADDRESS	8	CTX4DINTRETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	CTX4DINTCITOKENPTR	Context Interest Token address

Table 644. Structure CTX4EINTPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTX4EINTPARMLIST	
0	(0)	ADDRESS	8	CTX4EINTRETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	CTX4EINTRESOURCEMANAGERTOKENPTR	

Table 644. Structure CTX4EINTPARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					RM Token Address
16	(10)	ADDRESS	8	CTX4EINTCONTEXTTOKENPTR	Context Token Address
24	(18)	ADDRESS	8	CTX4EINTMEMTERMOPTIONPTR	Memory Termination Option address
32	(20)	ADDRESS	8	CTX4EINTCIDATAPTR	Context Interest Data address
40	(28)	ADDRESS	8	CTX4EINTCURRENTCONTEXTTOKENPTR	Current Context Token address
48	(30)	ADDRESS	8	CTX4EINTCITOKENPTR	Context Interest Token address
56	(38)	ADDRESS	8	CTX4EINTRETURNEDCIDATAPTR	Returned Context Interest Data address
64	(40)	ADDRESS	8	CTX4EINTMULTIPLEINTERESTOPTIONPTR	Multiple Interest Option address
72	(48)	ADDRESS	8	CTX4EINTWORKMANAGERNAMEPTR	Work manager name address

Table 645. Structure CTX4ENDCPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTX4ENDCPARMLIST	
0	(0)	ADDRESS	8	CTX4ENDCRETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	CTX4ENDCCONTEXTTOKENPTR	Context Token Address
16	(10)	ADDRESS	8	CTX4ENDCCOMPLETIONTYPEPTR	Completeion Type Address

Table 646. Structure CTX4RCIDPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTX4RCIDPARMLIST	
0	(0)	ADDRESS	8	CTX4RCIDRETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	CTX4RCIDCITOKENPTR	Context Interest Token address
16	(10)	ADDRESS	8	CTX4RCIDCIDATAPTR	Context Interest Data address

Table 647. Structure CTX4SCIDPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTX4SCIDPARMLIST	
0	(0)	ADDRESS	8	CTX4SCIDRETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	CTX4SCIDCITOKENPTR	Context Interest Token
16	(10)	ADDRESS	8	CTX4SCIDCIDATAPTR	Context Interest Data address
24	(18)	ADDRESS	8	CTX4SCIDCURRENTCIDATAPTR	Current Context Interest Data address

Table 648. Structure CTX4SWCHPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTX4SWCHPARMLIST	
0	(0)	ADDRESS	8	CTX4SWCHRETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	CTX4SWCHCONTEXTTOKENPTR	Context Token Address
16	(10)	ADDRESS	8	CTX4SWCHDISCONTEXTTOKENPTR	Disassociated Context Token

CTXASM mapping

Table 649. Structure CTX4SDTAPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTX4SDTAPARMLIST	
0	(0)	ADDRESS	8	CTX4SDTARETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	CTX4SDTACONTEXTTOKENPTR	Context Token Address
16	(10)	ADDRESS	8	CTX4SDTAKEYPTR	
24	(18)	ADDRESS	8	CTX4SDTADATALENGTHPTR	
32	(20)	ADDRESS	8	CTX4SDTADATAPTR	

Table 650. Structure CTX4RDTAPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTX4RDTAPARMLIST	
0	(0)	ADDRESS	8	CTX4RDTARETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	CTX4RDTACONTEXTTOKENPTR	Context Token Address
16	(10)	ADDRESS	8	CTX4RDTAKEYPTR	
24	(18)	ADDRESS	8	CTX4RDTABUFFERLENGTHPTR	
32	(20)	ADDRESS	8	CTX4RDTADATALENGTHPTR	
40	(28)	ADDRESS	8	CTX4RDTADATAPTR	

Table 651. Structure CTX4RCCPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTX4RCCPARMLIST	
0	(0)	ADDRESS	8	CTX4RCCRETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	CTX4RCCCONTEXTTOKENPTR	Context Token Address

Table 652. Structure CTXEPPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXEPPARMLIST	
0	(0)	ADDRESS	4	CTXEPRETURNCODEPTR	Exit Return Code Address
4	(4)	ADDRESS	4	CTXEPVERSIONPTR	Exit Parameter List Version Number
8	(8)	ADDRESS	4	CTXEPEXITNUMBERPTR	Exit Number Address
12	(C)	ADDRESS	4	CTXEPRMTOKENPTR	Resource Manager Token Address
16	(10)	ADDRESS	4	CTXEPEXITMGRNAMEPTR	Registration Services Exit Manager Name Address
20	(14)	ADDRESS	4	CTXEPRMGLOBALDATAPTR	Resource Manager Global Data Address
24	(18)	ADDRESS	4	CTXEPCTOKENPTR	Context Token address
28	(1C)	ADDRESS	4	CTXEPCITOKENPTR	Context Interest Token Address
32	(20)	ADDRESS	4	CTXEPCIDATAPTR	Context Interest Data Address
36	(24)	ADDRESS	4	CTXEPVALUE1PTR	Value 1 Address
40	(28)	ADDRESS	4	CTXEPVALUE2PTR	Value 2 Address
44	(2C)	ADDRESS	4	CTXEPVALUE3PTR	Value 3 Address
48	(30)	ADDRESS	4	CTXEPVALUE4PTR	Value 4 Address
52	(34)	ADDRESS	4	CTXEPVALUE5PTR	Value 5 Address

Table 653. Cross Reference for CTXASM

Name	Offset	Hex Tag
CTX_CRGSEIF_VALUE_1	0	
CTX_CRGSEIF_VALUE_1_VER_CONST	8	1
CTX_CRGSEIF_VALUE_1_VER1_LEN	8	28
CTX_VALUE_1_DATA_LEN	0	
CTX_VALUE_1_DATA_VER	4	
CTX_VALUE_1_RM_NAME	8	
CTX_VALUE_1_VER_1_DATA	8	
CTXBEGCCONTEXTTOKENPTR	8	
CTXBEGCPARMLIST	0	
CTXBEGCRESOURCEMANAGERTOKENPTR	4	
CTXBEGCRETURNCODEPTR	0	
CTXDINTCITOKENPTR	4	
CTXDINTPARMLIST	0	
CTXDINTRETURNCODEPTR	0	
CTXEINTCIDATAPTR	10	
CTXEINTCITOKENPTR	18	
CTXEINTCONTEXTTOKENPTR	8	
CTXEINTCURRENTCONTEXTTOKENPTR	14	
CTXEINTMEMTERMOPTIONPTR	C	
CTXEINTMULTIPLEINTERESTOPTIONPTR	20	
CTXEINTPARMLIST	0	
CTXEINTRESOURCEMANAGERTOKENPTR	4	
CTXEINTRETURNCODEPTR	0	
CTXEINTRETURNEDCIDATAPTR	1C	
CTXEINT1CIDATAPTR	10	
CTXEINT1CITOKENPTR	18	
CTXEINT1CONTEXTTOKENPTR	8	
CTXEINT1CURRENTCONTEXTTOKENPTR	14	
CTXEINT1MEMTERMOPTIONPTR	C	
CTXEINT1MULTIPLEINTERESTOPTIONPTR	20	
CTXEINT1PARMLIST	0	
CTXEINT1RESOURCEMANAGERTOKENPTR	4	
CTXEINT1RETURNCODEPTR	0	
CTXEINT1RETURNEDCIDATAPTR	1C	
CTXEINT1WORKMANAGERNAMEPTR	24	
CTXENDCCOMPLETIONTYPEPTR	8	
CTXENDCCONTEXTTOKENPTR	4	
CTXENDCPARMLIST	0	
CTXENDCRETURNCODEPTR	0	
CTXEPCIDATAPTR	20	
CTXEPCITOKENPTR	1C	
CTXEPCTOKENPTR	18	
CTXEPEXITMGRNAMEPTR	10	
CTXEPEXITNUMBERPTR	8	
CTXEPPARMLIST	0	
CTXEPRETURNCODEPTR	0	
CTXEPRMGLOBALDATAPTR	14	
CTXEPRMTOKENPTR	C	
CTXEPVALUE1PTR	24	

Table 653. Cross Reference for CTXASM (continued)

Name	Offset	Hex Tag
CTXEPVALUE2PTR	28	
CTXEPVALUE3PTR	2C	
CTXEPVALUE4PTR	30	
CTXEPVALUE5PTR	34	
CTXEPVERSIONPTR	4	
CTXRCCCONTEXTTOKENPTR	4	
CTXRCCPARMLIST	0	
CTXRCCRETURNCODEPTR	0	
CTXRCIDCIDATAPTR	8	
CTXRCIDCITOKENPTR	4	
CTXRCIDPARMLIST	0	
CTXRCIDRETURNCODEPTR	0	
CTXRDTABUFFERLENGTHPTR	C	
CTXRDTACONTEXTTOKENPTR	4	
CTXRDTADATALENGTHPTR	10	
CTXRDTADATAPTR	14	
CTXRDTAKEYPTR	8	
CTXRDTAPARMLIST	0	
CTXRDTARETURNCODEPTR	0	
CTXSCIDCIDATAPTR	8	
CTXSCIDCITOKENPTR	4	
CTXSCIDPARMLIST	0	
CTXSCIDRETURNCODEPTR	0	
CTXSCID2CIDATAPTR	8	
CTXSCID2CITOKENPTR	4	
CTXSCID2CURRENTCIDATAPTR	C	
CTXSCID2PARMLIST	0	
CTXSCID2RETURNCODEPTR	0	
CTXSDTACONTEXTTOKENPTR	4	
CTXSDTADATALENGTHPTR	C	
CTXSDTADATAPTR	10	
CTXSDTAKEYPTR	8	
CTXSDTAPARMLIST	0	
CTXSDTARETURNCODEPTR	0	
CTXSWCHCONTEXTTOKENPTR	4	
CTXSWCHDISCONTEXTTOKENPTR	8	
CTXSWCHPARMLIST	0	
CTXSWCHRETURNCODEPTR	0	
CTX4BEGCCONTEXTTOKENPTR	10	
CTX4BEGCPARMLIST	0	
CTX4BEGCRESOURCEMANAGERTOKENPTR	8	
CTX4BEGCRETURNCODEPTR	0	
CTX4DINTCITOKENPTR	8	
CTX4DINTPARMLIST	0	
CTX4DINTRETURNCODEPTR	0	
CTX4EINTCIDATAPTR	20	
CTX4EINTCITOKENPTR	30	
CTX4EINTCONTEXTTOKENPTR	10	
CTX4EINTCURRENTCONTEXTTOKENPTR	28	

Table 653. Cross Reference for CTXASM (continued)

Name	Offset	Hex Tag
CTX4EINTMEMTERMOPTIONPTR	18	
CTX4EINTMULTIPLEINTERESTOPTIONPTR	40	
CTX4EINTPARMLIST	0	
CTX4EINTRESOURCEMANAGERTOKENPTR	8	
CTX4EINTRETURNCODEPTR	0	
CTX4EINTRETURNEDCIDATAPTR	38	
CTX4EINTWORKMANAGERNAMEPTR	48	
CTX4ENDCCOMPLETIONTYPEPTR	10	
CTX4ENDCCONTEXTTOKENPTR	8	
CTX4ENDCPARMLIST	0	
CTX4ENDCRETURNCODEPTR	0	
CTX4RCCCONTEXTTOKENPTR	8	
CTX4RCCPARMLIST	0	
CTX4RCCRETURNCODEPTR	0	
CTX4RCIDCIDATAPTR	10	
CTX4RCIDCITOKENPTR	8	
CTX4RCIDPARMLIST	0	
CTX4RCIDRETURNCODEPTR	0	
CTX4RDTABUFFERLENGTHPTR	18	
CTX4RDTACONTEXTTOKENPTR	8	
CTX4RDTADATALENGTHPTR	20	
CTX4RDTADATAPTR	28	
CTX4RDTAKEYPTR	10	
CTX4RDTAPARMLIST	0	
CTX4RDTARETURNCODEPTR	0	
CTX4SCIDCIDATAPTR	10	
CTX4SCIDCITOKENPTR	8	
CTX4SCIDCURRENTCIDATAPTR	18	
CTX4SCIDPARMLIST	0	
CTX4SCIDRETURNCODEPTR	0	
CTX4SDTACONTEXTTOKENPTR	8	
CTX4SDTADATALENGTHPTR	18	
CTX4SDTADATAPTR	20	
CTX4SDTAKEYPTR	10	
CTX4SDTAPARMLIST	0	
CTX4SDTARETURNCODEPTR	0	
CTX4SWCHCONTEXTTOKENPTR	8	
CTX4SWCHDISCONTEXTTOKENPTR	10	
CTX4SWCHPARMLIST	0	
CTX4SWCHRETURNCODEPTR	0	

Chapter 145. CTXI Information

CTXI Programming Interface Information

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

- CTXICNTL

CTXI Heading Information

Common Name:	CTRACE Exit Interface
Macro ID:	ITTCTXI
DSECT Name:	CTXI
Owning Component:	Component Trace (SCTRC)
Eye-Catcher ID:	CTXI Offset: 0 Length: 4
Storage Attributes:	Virtual Storage: Private storage in IPCS users address space Subpool: 1 Key: 8
Size:	80 bytes
Created by:	CTRACE subcommand processor INITIALIZED BY: CTRACE subcommand processor
Pointed to by:	Passed as a parameter
Serialization:	None
Function:	Provide information to the exits called by the Component Trace IPCS CTRACE subcommand.

CTXI mapping

Table 654. Structure CTXI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXI	, Component Trace Exit Interface Block
0	(0)	CHARACTER	5	CTXIID(0)	CTXI identifier and level
0	(0)	CHARACTER	4	CTXIIDC	CTXI identifier constant
4	(4)	CHARACTER	1	CTXILVL	CTXI level
5	(5)	BITSTRING	1	CTXIFLGS	Processing flags
		1...		CTXIDONE	"BIT0" All entries have been processed. The user exit has this opportunity to complete report generation, tabulate results and free storage.
		.1..		CTXICMPL	"BIT1" The buffer described is complete (copied), and is not wrapped
		..1.		CTXIIGSY	"BIT2" Ignore existing buffer definition symbols, component dependent options determine
6	(6)	BITSTRING	2		Reserved

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Table 654. Structure CTXI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	ADDRESS	4	CTXIUSWA	Address of a 4K user work area. Zeroed and reused by FIND and FILTER functions
12	(C)	ADDRESS	4	CTXIUSER	A field that may be used to anchor storage GETMAINED by an exit program.
16	(10)	SIGNED	4	CTXIUSRL	Length of storage got by exit
20	(14)	CHARACTER	8	CTXICOMP	The name of the component which produced the CTE
28	(1C)	ADDRESS	4	CTXICNTL	The address of the component trace control area. See ITTCNTL for details.
32	(20)	ADDRESS	4	CTXIOPT	The address of a buffer containing the OPTIONS specified on the CTRACE command. These are component specific options. The mapping for this buffer is equivalent to the "options list header" in the CTSS. See the CTSSOPTL DSECT in the ITTCTSS macro for the mapping.
36	(24)	ADDRESS	4	CTXIESR	The address of an Equate Symbol Record to be filled in by the component exit. This describes a buffer containing trace entries to be processed.
40	(28)	ADDRESS	4	CTXICTE	The address of an Component Trace Entry (CTE) currently being formatted
44	(2C)	ADDRESS	4	CTXIFMP	The address of an initialized format parameter
48	(30)	SIGNED	4	CTXITNX	Index into format table
52	(34)	ADDRESS	4	CTXISNP	-> ITTSTAB structure
56	(38)	BITSTRING	16	CTXIUSRD	User data from CTRACE DEFINE or CTSSUSRD
72	(48)	ADDRESS	4	CTXIFMTB	Address of sorted format table
76	(4C)	BITSTRING	2	CTXICPU	CPU to get trace data for
78	(4E)	BITSTRING	2		Reserved
80	(50)	SIGNED	4	CTXIEND(0)	End of CTXI

Table 655. Cross Reference for CTXI

Name	Offset	Hex Tag
CTXI	0	
CTXICMPL	5	40
CTXICNTL	1C	
CTXICOMP	14	40404040
CTXICPU	4C	0
CTXICTE	28	
CTXIDONE	5	80
CTXIEND	50	
CTXIESR	24	
CTXIFLGS	5	0

Table 655. Cross Reference for CTXI (continued)

Name	Offset	Hex Tag
CTXIFMP	2C	
CTXIFMTB	48	
CTXIID	0	
CTXIIDC	0	C3E3E7C9
CTXIIGSY	5	20
CTXILVL	4	F1
CTXIOPT	20	
CTXISNP	34	
CTXITNX	30	0
CTXIUSER	C	
CTXIUSRD	38	0
CTXIUSRL	10	0
CTXIUSWA	8	

Chapter 146. CTXT Information

CTXT Programming Interface Information

CTXT is a programming interface.

CTXT Heading Information

Common Name:	COMMUNICATIONS TASK INSTALLATION EXIT ROUTINE PARAMETER LIST
Macro ID:	IEZVX100
DSECT Name:	CTXT (Exit parameter list), CTXTATTR (Message Attributes), CTXTROUT (Routing Codes), CTXTDESC (Descriptor Codes), CTXTFBCN (4-Byte console id), CTXTPRFL (Request Flags), CTXTCNME (Console Name), CTXTCDAM (12-Byte Common Data Area)
Owning Component:	CONSOLES (SC1CK)
Eye-Catcher ID:	CTXT Offset: 0 Length: 4 BYTES
Storage Attributes:	Virtual Storage: NO Auxiliary Storage: NO Subpool: 229 Key: 0 Data Space: NO Residency: BELOW 2GB
Size:	152 BYTES
Created by:	CNZS1MPF - WTO MPF ROUTINE POINTED TO BY - REGISTER 1
Pointed to by:	REGISTER 1
Serialization:	NONE
Function:	PROVIDES THE INTERFACE BETWEEN CNZS1MPF AND THE WTO INSTALLATION EXITS.

CTXT mapping

Table 656. Structure CTXT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXT	COMM TASK EXIT PARAMETER LIST
0	(0)	CHARACTER	4	CTXTACRN	ACRONYM 'CTXT'
4	(4)	BITSTRING	1	CTXTVRSN	VERSION LEVEL
4	(4)	X'1'	0	CTXTS212	"1" LEVEL OF OS/VS2 JBB2125
4	(4)	X'2'	0	CTXTS220	"2" LEVEL OF OS/VS2 JBB2220
4	(4)	X'3'	0	CTXTS410	"3" MVS/ESA HBB4410
4	(4)	X'4'	0	CTXTS422	"4" MVS/ESA JBB4422
4	(4)	X'9'	0	CTXTS720	"9" Z/OS HBB7720 LEVEL
4	(4)	X'9'	0	CTXTVERN	"CTXTS720" CURRENT VERSION LEVEL
4	(4)	X'0'	0	CTXTMCS	"0" MCS CONSOLE CLASS
5	(5)	CHARACTER	3	CTXTRSV1	RESERVED

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Table 656. Structure CTXT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
The CTXTATTR structure pointed to by CTXTTXPJ contains either a single-line message or the first (major) line of a multi-line message. CTXTTXPN is non-zero when it points to a CTXTATTR structure containing a minor line of a multi-line message. CTXTTXPN is zero for single-line messages and for the first (major) line of a multi-line message. Both CTXTTXPJ and CTXTTXPN are zero if the exit termination flag CTXTCIDA is set. You should test CTXTCIDA before attempting to access CTXTTXPJ and CTXTTXPN. To process the minor lines of a multi-line message, you must set CTXTRPML when the exit first sees the first (major) line of the multi-line message. You can test the CTXTTFMJ bit in the CTXTTFB1 message type flags contained in the CTXTATTR message attributes pointed to by CTXTTXPJ to determine if the message is a multi-line message. If you have set CTXTRPML, the exit will be invoked for each minor line in the multi-line message. When a minor line is present, CTXTTXPN will be non-zero and will point to a CTXTATTR structure containing the minor line. You can use the message type flags (CTXTTFB1) in the CTXTATTR message attributes pointed to by CTXTTXPN to determine the type(s) of the minor line that is being presented to the exit. CTXTTXPJ will continue to point to the major line each time that the exit is invoked to process a minor line. The exit should examine the text pointed to by CTXTTXPJ each time to verify that the exit is processing the correct major line before examining the minor line since the exit may be receiving the minor lines of					
multiple multi-line messages interspersed. You can only change the text of minor lines within a multi-line message. All other attributes of the multi-line message must be changed when the major (first) line of the multi-line message is processed. If you alter other attributes of the message, they are ignored. You can only perform actions such as suppressing the message or deleting the message when the major (first) line of the multi-line message is processed. You cannot convert a single-line message into a multi-line message nor can you convert a multi-line message into a single-line message. You cannot add or remove minor lines from a multi-line message. You cannot convert a single-line message into a Write-To-Operator-with-Reply (WTOR) message nor can you convert a WTOR into a single-line message.					
8	(8)	ADDRESS	4	CTXTTXPJ	POINTER TO TEXT OF MAJOR
12	(C)	ADDRESS	4	CTXTTXPN	POINTER TO TEXT OF MINOR
NOTE: CTXTSEQN is the same as the DOM ID.					
16	(10)	SIGNED	4	CTXTSEQN	WTO SEQUENCE NUMBER
20	(14)	CHARACTER	1	CTXTRSV2	RESERVED
21	(15)	SIGNED	3	CTXTMLID	MULTI-LINE WTO ID
CTXTRPID contains the EBCDIC representation of the WTOR reply ID if the reply ID is 99 or less. CTXTRPID contains X'0000' if the reply ID is greater than 99. IBM recommends using CTXTRPYB/CTXTRPYL/CTXTRPYI instead of CTXTRPID since they can handle reply IDs of any supported size.					
24	(18)	SIGNED	2	CTXTRPID	REPLY ID
MONITOR Message Type flags.					
26	(1A)	BITSTRING	2	CTXTMTYP(0)	MESSAGE TYPE FLAGS

Table 656. Structure CTXT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
26	(1A)	BITSTRING	1	CTXTMTY1	FIRST BYTE OF MESSAGE TYPE FLAGS
		1...		CTXTMTYA	"X'80'" MONITOR JOBNAMES
		.1..		CTXTMTYB	"X'40'" MONITOR STATUS
		EQU X'20' RESERVED EQU X'10' RESERVED EQU X'08' RESERVED			
		.... .1..		CTXTMTYF	"X'04'" MONITOR SESS
		EQU X'02' RESERVED EQU X'01' RESERVED			
27	(1B)	BITSTRING	1	CTXTMTY2	SECOND BYTE OF MESSAGE TYPE FLAGS
		Routing and Descriptor Code section. The Routing Codes pointed to by CTXTRCP are described by the CTXTROUT DSECT. The Descriptor Codes pointed to by CTXTDCP are described by the CTXTDESC DSECT.			
28	(1C)	SIGNED	2	CTXTRCLN	LENGTH OF ROUTING CODES
30	(1E)	SIGNED	2	CTXTDCLN	LENGTH OF DESCRIPTOR CODES
32	(20)	ADDRESS	4	CTXTRCP	POINTER TO ROUTING CODES
36	(24)	ADDRESS	4	CTXTDCP	POINTER TO DESCRIPTOR CODES
		Pointer to a 1-byte Console ID. Note that 1-byte IDs are obsolete with z/OS 1.8 (HBB7730). The 4-byte Console ID field CTXTFBCN in the CTXTFBCN DSECT pointed to by CTXTFCNP should always be used instead.			
40	(28)	ADDRESS	4	CTXT1BCP	RESERVED - WAS CTXTCIDP
		Status Flags. Input TO the exit. Set by WTO, MPFLSTxx and MFA processing.			
44	(2C)	SIGNED	2	CTXTSFLG(0)	STATUS FLAGS (INPUT TO THE INSTALLATION EXIT)
44	(2C)	BITSTRING	1	CTXTSFB1	STATUS FLAGS BYTE ONE
		CTXTSQPC is set if the WTO was issued by console ID, including the internal console ID. It is also set if the message was issued by console name, including INTERNAL and INSTREAM. CTXTSQPC is set in z/OS 1.8 (HBB7730) and later releases if the message was issued with the unknown console ID.			
		1...		CTXTSQPC	"X'80'" QUEUE TO A PARTICULAR ACTIVE CONSOLE
		CTXTSQUN is obsolete with z/OS 1.8 (HBB7730) and should not be used. Prior to z/OS 1.8 (HBB7730), setting CTXTSQUN will cause the message to be queued to an active console by console ID.			
		.1..		CTXTSQUN	"X'40'" QUEUE TO A PARTICULAR CONSOLE
		..1.		CTXTSSUP	"X'20'" SUPPRESSED BY MPF or Message Flood Automation
		...1		CTXTSFHC	"X'10'" HARDCOPY
		.... 1...		CTXTSNHC	"X'08'" NO HARDCOPY
		.... .1..		CTXTSHCO	"X'04'" HARDCOPY ONLY

Table 656. Structure CTXT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
The CTXTSRSP flag is set from the WTO MCSFLAG=RESP bit, not the Descriptor Code 5 bit which also means Command Response. Both should be checked since some messages will set one or the other but not always both.					
		.... ..1.		CTXTSRSP	"X'02'" COMMAND RESPONSE
		1		CTXTSBCA	"X'01'" BROADCAST TO ACTIVE CONSOLES
45	(2D)	BITSTRING	1	CTXTSFB2	STATUS FLAGS BYTE TWO
		1...		CTXTSRET	"X'80'" MSG TO BE RETAINED BY AMRF
		.1..		CTXTSAUT	"X'40'" AUTOMATION SPECIFIED
		..1.		CTXTSNMD	"X'20'" PRIMARY SUBSYSTEM MODIFICATIONS NOT ALLOWED
		...1		CTXTSRIS	"X'10'" REISSUED MESSAGE
		.... 1...		CTXT_PROCESSED_BY_MFA	"X'08'" Message Flood Automation processed this message
		.... .1..		CTXT_MSG_TO_BE_DELETED	"X'04'" Message will be deleted
		.... ..1.		CTXT_WTOR_MONITORED_BY_AUTOR	"X'02'" WTOR is being monitored by Auto-Reply processing
Branch-entry / NIP flags. Input TO the exit.					
46	(2E)	BITSTRING	1	CTXTBNPF	BRANCH-ENTRY/NIP FLAGS
		1...		CTXTDOMD	"X'80'" MESSAGE HAS BEEN DOM'D
		.1..		CTXTNBEW	"X'40'" BRANCH-ENTRY OR NIP MESSAGE
		..1.		CTXTHABD	"X'20'" HAS ALREADY BEEN DISPLAYED
Requests TO the exit.					
47	(2F)	BITSTRING	1	CTXTSFB4	REQUEST TO EXIT
When CTXTCIDA is set, it indicates that MPF is about to terminate the exit and that you should clean-up and release any persistent storage that the exit has been using. The exit termination call signaled by CTXTCIDA only occurs if a previous invocation of the exit placed a non-zero value in the 8-byte individual data area pointed to by CTXTIWKP.					
		.1..		CTXTCIDA	"X'40'" THIS IS THE TERMINATION CALL AND CLEANUP THE INDIVIDUAL DATA AREA
Requests FROM the exit. To change any attribute of a message, you must change the attribute AND set the change request flag below that is associated with the attribute that you wish to change. If you change an attribute and do not set the change request flag, the change is ignored. You can only change attributes that have a change request flag associated with them. Changes made to attributes for which change request flags do not exist are ignored. The CTXTERFS field contains additional request flags.					
48	(30)	SIGNED	4	CTXTRFLG(0)	REQUEST FLAGS (FROM THE USER EXIT TO THE SYSTEM)
48	(30)	CHARACTER	3	CTXTRF3B(0)	REQUEST FLAGS THREE BYTES
48	(30)	BITSTRING	1	CTXTRFB1	REQUEST FLAGS BYTE ONE

Table 656. Structure CTXT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CTXTRCMT	"X'80'" CHANGE THE MESSAGE TEXT
		.1..		CTXTRCRC	"X'40'" CHANGE THE ROUTING CODE(S)
		..1.		CTXTRCDC	"X'20'" CHANGE THE DESCRIPTOR CODE(S)
		CTXTRQPC is mutually-exclusive with CTXTRQRC. If both are specified, an incompatible request error is signaled which is visible in the MPF request flag section of the SYSLOG.			
		...1		CTXTRQPC	"X'10'" QUEUE TO A PARTICULAR ACTIVE CONSOLE
		CTXTRQUN is obsolete and provides the same function as CTXTRQPC. You should use CTXTRQPC instead. CTXTRQUN is mutually-exclusive with CTXTRQRC. If both are specified, an incompatible request error is signaled which is visible in the MPF request flag section of the SYSLOG.			
		.... 1...		CTXTRQUN	"X'08'" QUEUE TO A PARTICULAR CONSOLE UNCONDITIONALLY
		CTXTRQRC requesting queuing by route code only is mutually-exclusive with: CTXTRCMF - changing the message type flags CTXTRQPC - queue to a particular console CTXTRQUN - queue to a particular console CTXTRHCO - request hardcopy only Specifying CTXTRQRC with any of these will result in an incompatible request error being signaled which is visible in the MPF request flag section of the SYSLOG.			
		.... .1..		CTXTRQRC	"X'04'" QUEUE BY ROUTING CODES ONLY
		.... ..1.		CTXTRC1B	"X'02'" RESERVED AND HELD FOR DOWNLEVEL USE (WAS CTXTRCCN)
		1		CTXTRPML	"X'01'" PROCESS MINOR LINES
49	(31)	BITSTRING	1	CTXTRFB2	REQUEST FLAGS BYTE TWO

Table 656. Structure CTXT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
CTXTRDTM is mutually-exclusive with all other request flags except: CTXTRANO - do not mark the message for automation CTXTRAYS - mark the message for automation any of the request flags in CTXTERFS CTXTEMRY - primary subsystem can alter message routing CTXTEMRN - primary subsystem cannot alter msg routing CTXTEMCO - change the color of the message CTXTEMHI - change the highlighting of the message CTXTEMIN - change the intensity of the message CTXTESJL - suppress the message from the JOBLOG CTXTNWTP - do not perform write-to-programmer processing Specifying any other request with CTXTRDTM will result in an incompatible request error which is visible in the MPF request flag section of the SYSLOG. Messages with CTXTRDTM set are deleted on return from the subsystem interface (SSI) unless automation of the message was requested by MPF (CTXTSAUT) or the exit (CTXTRAYS). The deletion of the message occurs before the message is written to the SYSLOG or OPERLOG and before the message is sent to other systems in the sysplex or to the Consoles address space for queuing to consoles. If automation is requested, the message will not be written to the SYSLOG or OPERLOG but will be sent to other systems in the sysplex and to the Consoles address space. However, it will only be queued to EMCS Consoles that have requested that automation messages be queued to them. Setting CTXTRDTM does not affect the logging of the message to JOBLOG or the writing of the message to the system message data set (SYSMSG) or the sending of the message to a TSO user using TPUT.					
Subsystems on the Subsystem Interface may or may not choose to ignore a message that has been marked for deletion (the WQERDTM flag is set) as a result of setting CTXTRDTM.					
	1...	....		CTXTRDTM	"X'80'" DELETE THE MESSAGE (NO HARDCOPY AND NO DISPLAY)
	.1..	....		CTXTROMS	"X'40'" OVERRIDE MPF SUPPRESSION IF BEING SUPPRESSED BY MPF
CTXTRFHC and CTXTRNHC are mutually-exclusive. If both are specified, CTXTRFHC is used. CTXTRFHC and CTXTRHCO are mutually-exclusive. If both are specified, CTXTRFHC is used.					
	..1.	....		CTXTRFHC	"X'20'" FORCE HARDCOPY
	...1	....		CTXTRNHC	"X'10'" FORCE NO HARDCOPY
CTXTRHCO and CTXTRNHC are mutually-exclusive. If both are specified, CTXTRHCO is used. CTXTRHCO and CTXTRBCA are mutually-exclusive. If both are specified, an incompatible request error is signaled which is visible in the MPF request flag section of the SYSLOG. CTXTRHCO and CTXTRQRC are mutually-exclusive. If both are specified, an incompatible request error is signaled which is visible in the MPF request flag section of the SYSLOG.					
	....	1...		CTXTRHCO	"X'08'" FORCE HARDCOPY ONLY

Table 656. Structure CTXT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
CTXTRBCA and CTXTRBCN are mutually-exclusive. If both are specified, CTXTRBCN is used. CTXTRBCA and CTXTRHCO are mutually-exclusive. If both are specified, an incompatible request error is signaled which is visible in the MPF request flag section of the SYSLOG.					
	.... .1..			CTXTRBCA	"X'04'" BROADCAST MESSAGE TO ALL ACTIVE CONSOLES
	.... ..1.			CTXTRBCN	"X'02'" DO NOT BROADCAST MESSAGE TO ALL ACTIVE CONSOLES
CTXTRNRT and CTXTRRET are mutually-exclusive. If both are specified, an incompatible request error is signaled which is visible in the MPF request flag section of the SYSLOG.					
	1			CTXTRNRT	"X'01'" AMRF IS NOT TO RETAIN THIS MSG
50	(32)	BITSTRING	1	CTXTRFB3	REQUEST FLAGS BYTE THREE
CTXTRRET and CTXTRNRT are mutually-exclusive. If both are specified, an incompatible request error is signaled which is visible in the MPF request flag section of the SYSLOG. If the message is not an action message (descriptor codes 1, 2, 3 and 11 are not set), CTXTRRET is ignored.					
	1...			CTXTRRET	"X'80'" AMRF IS TO RETAIN THIS MSG
	.1..			CTXTRCKY	"X'40'" CHANGE THE RETRIEVAL KEY
CTXTRCFC and CTXTRCNM are mutually-exclusive. If both are specified, only the console name will be changed. If an invalid console ID is specified, an incompatible request error is signaled which is visible in the MPF request flag section of the SYSLOG.					
	..1.			CTXTRCFC	"X'20'" CHANGE THE 4-BYTE CONSOLE ID
CTXTRCMF and CTXTRQRC are mutually-exclusive. If both are specified, an incompatible request error is signaled which is visible in the MPF request flag section of the SYSLOG.					
	...1			CTXTRCMF	"X'10'" CHANGE THE MESSAGE TYPE FLAGS
CTXTRANO and CTXTRAYS are mutually-exclusive. If both are specified, an incompatible request error is signaled which is visible in the MPF request flag section of the SYSLOG.					
	.... 1...			CTXTRANO	"X'08'" AUTOMATION IS NOT REQUIRED AND ZERO TOKEN VALUE
	.... .1..			CTXTRAYS	"X'04'" AUTOMATION IS REQUIRED AND UPDATE TOKEN VALUE
CTXTRCNM and CTXTRCFC are mutually-exclusive. If both are specified, only the console name will be changed. If the console name or the 4-byte console ID that is derived internally from the console name are invalid, an incompatible request error is signaled which is visible in the MPF request flag section of the SYSLOG.					

Table 656. Structure CTXT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		CTXTRCNM	"X'02'" CHANGE THE CONSOLE NAME. NOTE THAT THIS FLAG DOES NOT GET PROPAGATED TO THE WQE, MDB, OR HARDCOPY LOG.
When CTXT_Override_Deletion is specified, you should also specify the action that should be taken (e.g., send to hardcopy or queue by routing codes).					
		1		CTXT_OVERRIDE_DELETION	"X'01'" Do not delete message
Reserved flags.					
51	(33)	BITSTRING	1		RESERVED FOR COMM TASK USE
Pointer to 4-byte Console ID. NOTE: The console ID can be converted into a console name (and vice versa) using the CNZCONV or CONVCON system services.					
52	(34)	ADDRESS	4	CTXTFCNP	POINTER TO 4-BYTE CONSOLE ID
Pointer to previous exit request flags. NOTE: Previous exit request flags will only be present if the message was issued on another system, was processed by an MPF exit on that system, and was re-driven through MPF on this system. Typically, this only happens in JES3 environments where the message was issued on a LOCAL processor and is processed (again) on the GLOBAL processor. In the general case, it is any message that has been picked up in its entirety (as a WQE) from the SSI on one system and re-introduced into the message path on another system using the WTO WQEBLK parameter.					
56	(38)	ADDRESS	4	CTXTPREQ	POINTER TO REQUEST FLAGS, REFLECTING CHANGES DONE TO THIS MESSAGE PREVIOUSLY
CTXTTOKN is the TOKEN value specified on the WTO/WTOR that may be used to DOM a group of one or more messages using the DOM by TOKEN facility.					
60	(3C)	ADDRESS	4	CTXTTOKN	TOKEN value for DOM by TOKEN.
CTXTKEY is the KEY value specified on the WTO/WTOR that may be used to retrieve a group of one or more messages from the Action Message Retention Facility (AMRF) using the DISPLAY REQUESTS command (D R) with the KEY= parameter specified.					
64	(40)	CHARACTER	8	CTXTKEY	D R retrieval KEY value
CTXTJBNM is the name of the job that issued the message. CTXTJBNM is all blanks if the message was issued by a system service that is not issuing the message on behalf of a particular job. CTXTJBNM will be 'IEESYSAS' if the message was issued by a system address space. The jobname is not provided if the message issuer was running in SRB mode. The jobname is not meaningful for a started task.					
72	(48)	CHARACTER	8	CTXTJBNM	NAME OF JOB THAT ISSUED MESSAGE
CTXTCART is the "command and response token" and must have been supplied to the issuer of the message by a previous MGCRE command request. It is the responsibility of the message issuer to convey the CART from the command to the WTO/WTOR.					
80	(50)	CHARACTER	8	CTXTCART	CART

Table 656. Structure CTXT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
CTXTSYSN is the name of the system on which the WTO was issued.					
88	(58)	CHARACTER	8	CTXTSYSN	NAME OF SYSTEM ON WHICH WTO ORIGINATED
CTXTAUTT is the token from the MPFLSTxx AUTO= specification. Programming Note: This is a convenient way to get 8-bytes of parameters into the exit; it is also a convenient way to "tag" the message -- either through the MPFLSTxx specification or by the exit creating CTXTAUTT -- so that the message can receive special processing in an automation program that picks the message up from the SSI or through an EMCS console.					
96	(60)	CHARACTER	8	CTXTAUTT	AUTOMATION TOKEN VALUE
104	(68)	CHARACTER	4	CTXTRSV4	RESERVED
Additional requests FROM the exit. These are NOT mutually-exclusive with setting CTXTRDTM.					
108	(6C)	SIGNED	4	CTXTERFS(0)	EXTENDED REQUEST FLAGS (FROM THE INSTALLATION EXIT TO THE SYSTEM)
108	(6C)	BITSTRING	1	CTXTERF1	REQUEST FLAGS BYTE ONE
CTXTEMRY and CTXTEMRN are mutually-exclusive. If both are specified, an incompatible request error is signaled which is visible in the MPF request flag section of the SYSLOG.					
		1...		CTXTEMRY	"X'80'" PRIMARY SUBSYSTEM CAN ALTER MSG ROUTING
		.1..		CTXTEMRN	"X'40'" PRIMARY SUBSYSTEM CAN NOT ALTER MSG ROUTING
		..1.		CTXTEMCO	"X'20'" REQUEST TO CHANGE MESSAGE COLOR
		...1		CTXTEMHI	"X'10'" REQUEST TO CHANGE MESSAGE HIGHLIGHTING
		.... 1...		CTXTEMIN	"X'08'" REQUEST TO CHANGE MESSAGE INTENSITY
109	(6D)	BITSTRING	1	CTXTERF2	REQUEST FLAGS BYTE TWO
110	(6E)	BITSTRING	1	CTXTERF3	REQUEST FLAGS BYTE THREE
		1...		CTXTESJL	"X'80'" SUPPRESS MESSAGE FROM THE JOBLOG
		.1..		CTXTNWTP	"X'40'" DO NOT DO WTP PROCESSING (NO SYSMSG OR TPUT)
111	(6F)	BITSTRING	1	CTXTERF4	REQUEST FLAGS BYTE FOUR
Pointer to the Console Name. NOTE: The console name can be converted into a console ID (and vice versa) using the CNZCONV or CONVCON system services.					
112	(70)	ADDRESS	4	CTXTCNMP	POINTER TO CONSOLE NAME

Table 656. Structure CTXT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Pointer to the 12-byte Common Data Area for all MPF exits. The 12-byte Common Data Area is persistent and CTXTCWKP will point to the same data area on each invocation of any MPF exit, including IEAVMXIT. The 12-byte Common Data Area is mapped by the CTXTCDAM DSECT. You can use this area to contain small amounts of data that you want to share among ALL of your MPF exits. If the amount of data that you wish to share exceeds 12 bytes, you can use this area to contain a pointer to storage that you manage that contains the data that you wish to share. Since the 12-byte Common Data Area may be in use by multiple exits simultaneously, you may need to serialize your access to it (typically using Compare-and-Swap logic), depending on the data that you are sharing. You should determine which of your exits will clean-up the 12-byte Common Data Area when it is no longer needed (especially any storage that you have anchored to it).			
116	(74)	ADDRESS	4	CTXTCWKP	POINTER TO 12-BYTE COMMON DATA AREA FOR ALL EXITS
		Pointer to the 8-byte Data Area for this specific exit. The 8-byte Data Area is persistent and CTXTIWKP will point to the same data area on each invocation of this specific exit. No mapping DSECT is provided for the 8-byte Data Area. You can use this area to contain small amounts of data that you want to share among instances of this specific exit. If the amount of data that you wish to share exceeds 8 bytes, you can use this area to contain a pointer to storage that you manage that contains the data that you wish to share. Since the 8-byte Data Area may be in use by multiple instances of this exit simultaneously, you may need to serialize your access to it (typically using Compare-and-Swap logic), depending on the data that you are sharing. The termination call signaled by CTXTCIDA only occurs if a previous invocation of the exit placed a non-zero value in the 8-byte Data Area pointed to by CTXTIWKP. When the termination call occurs, you should remove any data from the Data Area by zeroing the Data Area. If you have used the Data Area to hold a pointer to storage that you have obtained, you should free that storage and zero the pointer to it in the Data Area before the exit returns to the system.			
120	(78)	ADDRESS	4	CTXTIWKP	POINTER TO 8-BYTE DATA AREA FOR AN INDIVIDUAL EXIT
		Message COLOR attributes. Specifying more than one color will result in no color change.			
124	(7C)	BITSTRING	1	CTXTCOLR	REQUEST FLAG TO CHANGE MESSAGE COLOR
		1...		CTXTBLUE	"X'80'" REQUEST COLOR BLUE
		.1..		CTXTRED	"X'40'" REQUEST COLOR RED
		..1.		CTXTPINK	"X'20'" REQUEST COLOR PINK
		...1		CTXTGREE	"X'10'" REQUEST COLOR GREEN
		.... 1...		CTXTTURQ	"X'08'" REQUEST COLOR TURQUOISE
		.... .1..		CTXTYELO	"X'04'" REQUEST COLOR YELLOW
		.... ..1.		CTXTWHIT	"X'02'" REQUEST COLOR WHITE
		Message HIGHLIGHTING attributes. Specifying an invalid highlighting attribute will result in no highlighting change.			

Table 656. Structure CTXT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
125	(7D)	BITSTRING	1	CTXTHILI	REQUEST FLAG TO CHANGE MESSAGE HIGHLIGHTING
		1...		CTXTNOHI	"X'80'" REQUEST NO HIGHLIGHTING
		.1..		CTXTBLNK	"X'40'" REQUEST BLINKING HIGHLIGHT
		..1.		CTXTREVD	"X'20'" REQUEST REVERSE VIDEO HIGHLIGHT
		...1		CTXTUNDR	"X'10'" REQUEST UNDERLINE HIGHLIGHT
Message INTENSITY attributes. The intensity attributes only affect monochrome displays. Specifying an invalid intensity attribute will result in no intensity change.					
126	(7E)	BITSTRING	1	CTXTINTN	REQUEST FLAG TO CHANGE MESSAGE INTENSITY
		1...		CTXTINOR	"X'80'" REQUEST NORMAL INTENSITY
		.1..		CTXTIHIG	"X'40'" REQUEST HIGH INTENSITY
127	(7F)	CHARACTER	1	CTXTRSV5	RESERVED
Reply IDs. Use instead of CTXTRPID.					
128	(80)	SIGNED	4	CTXTRPYB	BINARY REPLY ID
132	(84)	SIGNED	2	CTXTRPYL	LENGTH OF EBCDIC REPLY ID
134	(86)	CHARACTER	8	CTXTRPYI	EBCDIC REPLY ID
ASID and JOB ID of the message issuer. NOTE: The ASID is only meaningful on the system where the message was issued. The JOB ID is not present if the message issuer was running in SRB mode. NOTE: JES2 JOBIDs have the format JOBnnnnn/STCnnnnn/TSUnnnnn while JES3 JOBIDS have the format nnnnnnnn for all job types.					
142	(8E)	CHARACTER	2	CTXTASID	ASID OF USER
144	(90)	CHARACTER	8	CTXTOJBID	ORIGINATING JOB ID

Table 657. Structure CTXTATTR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXTATTR	COMM TASK EXIT MESSAGE ATTRIBUTES
0	(0)	SIGNED	2	CTXTTLEN	TEXT LENGTH
2	(2)	SIGNED	2	CTXTTLMX	MAXIMUM LENGTH OF TEXT
Message type flags.					
4	(4)	CHARACTER	2	CTXTTFLG(0)	MESSAGE TYPE FLAGS
4	(4)	BITSTRING	1	CTXTTFB1	TYPE FLAGS BYTE ONE
		1...		CTXTTFSL	"X'80'" A SINGLE LINE MESSAGE
		.1..		CTXTTFWR	"X'40'" A WTOR
		..1.		CTXTTFMJ	"X'20'" A MULTI-LINE MESSAGE
		...1		CTXTTFMC	"X'10'" A CONTROL LINE
		.... 1...		CTXTTFML	"X'08'" A LABEL LINE
		.... .1..		CTXTTFMD	"X'04'" A DATA LINE
		.... ..1.		CTXTTFME	"X'02'" AN END LINE
		1		CTXTTFMV	"X'01'" A verbose (optional) line

Table 657. Structure CTXTATTR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
5	(5)	BITSTRING	1	CTXTTFB2	RESERVED
Message text.					
6	(6)	CHARACTER	126	CTXTTMSG	TEXT OF MESSAGE

Table 658. Structure CTXTROUT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXTROUT	ROUTING CODES
0	(0)	BITSTRING	1	CTXTR001	FIRST BYTE OF ROUTING CODES
		1...		CTXTR01	"X'80'" PRIMARY CONSOLE ACTION
		.1..		CTXTR02	"X'40'" PRIMARY CONSOLE INFORMATION
		..1.		CTXTR03	"X'20'" TAPE POOL
		...1		CTXTR04	"X'10'" DIRECT ACCESS POOL
		.... 1...		CTXTR05	"X'08'" TAPE LIBRARY
		.... .1..		CTXTR06	"X'04'" DISK LIBRARY
		.... ..1.		CTXTR07	"X'02'" UNIT RECORD POOL
		1		CTXTR08	"X'01'" TELEPROCESSING CONTROL
1	(1)	BITSTRING	1	CTXTR002	SECOND BYTE OF ROUTING CODES
		1...		CTXTR09	"X'80'" SYSTEM SECURITY
		.1..		CTXTR10	"X'40'" SYSTEM/ERROR MAINTENANCE
		..1.		CTXTR11	"X'20'" PROGRAMMER INFORMATION
		...1		CTXTR12	"X'10'" EMULATOR INFORMATION
		.... 1...		CTXTR13	"X'08'" USER ROUTING CODE
		.... .1..		CTXTR14	"X'04'" USER ROUTING CODE
		.... ..1.		CTXTR15	"X'02'" USER ROUTING CODE
		1		CTXTR16	"X'01'" USER ROUTING CODE
2	(2)	BITSTRING	1	CTXTR003	THIRD BYTE OF ROUTING CODES
		1...		CTXTR17	"X'80'" USER ROUTING CODE
		.1..		CTXTR18	"X'40'" USER ROUTING CODE
		..1.		CTXTR19	"X'20'" USER ROUTING CODE
		...1		CTXTR20	"X'10'" USER ROUTING CODE
		.... 1...		CTXTR21	"X'08'" RESERVED FOR JES USAGE
		.... .1..		CTXTR22	"X'04'" RESERVED FOR JES USAGE
		.... ..1.		CTXTR23	"X'02'" RESERVED FOR JES USAGE
		1		CTXTR24	"X'01'" RESERVED FOR JES USAGE
3	(3)	BITSTRING	1	CTXTR004	FOURTH BYTE OF ROUTING CODES
		1...		CTXTR25	"X'80'" RESERVED FOR JES USAGE
		.1..		CTXTR26	"X'40'" RESERVED FOR JES USAGE
		..1.		CTXTR27	"X'20'" RESERVED FOR JES USAGE
		...1		CTXTR28	"X'10'" RESERVED FOR JES USAGE
		.... 1...		CTXTR29	"X'08'" Disaster Recovery
		.... .1..		CTXTR30	"X'04'" RESERVED
		.... ..1.		CTXTR31	"X'02'" RESERVED
		1		CTXTR32	"X'01'" RESERVED
4	(4)	BITSTRING	1	CTXTR005	FIFTH BYTE OF ROUTING CODES
		1...		CTXTR33	"X'80'" RESERVED
		.1..		CTXTR34	"X'40'" RESERVED
		..1.		CTXTR35	"X'20'" RESERVED
		...1		CTXTR36	"X'10'" RESERVED

Table 658. Structure CTXTROUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		CTXTR37	"X'08'" RESERVED
		.... .1..		CTXTR38	"X'04'" RESERVED
		.... ..1.		CTXTR39	"X'02'" RESERVED
		1		CTXTR40	"X'01'" RESERVED
5	(5)	BITSTRING	1	CTXTR006	SIXTH BYTE OF ROUTING CODES
		1...		CTXTR41	"X'80'" JOB STATUS MESSAGE
		.1..		CTXTR42	"X'40'" GENERAL INFO ABOUT JES2 OR JES3
		..1.		CTXTR43	"X'20'" RESERVED FOR JES USAGE
		...1		CTXTR44	"X'10'" RESERVED FOR JES USAGE
		.... 1...		CTXTR45	"X'08'" RESERVED FOR JES USAGE
		.... .1..		CTXTR46	"X'04'" RESERVED FOR JES USAGE
		.... ..1.		CTXTR47	"X'02'" RESERVED FOR JES USAGE
		1		CTXTR48	"X'01'" RESERVED FOR JES USAGE
6	(6)	BITSTRING	1	CTXTR007	SEVENTH BYTE OF ROUTING CODES
		1...		CTXTR49	"X'80'" RESERVED FOR JES USAGE
		.1..		CTXTR50	"X'40'" RESERVED FOR JES USAGE
		..1.		CTXTR51	"X'20'" RESERVED FOR JES USAGE
		...1		CTXTR52	"X'10'" RESERVED FOR JES USAGE
		.... 1...		CTXTR53	"X'08'" RESERVED FOR JES USAGE
		.... .1..		CTXTR54	"X'04'" RESERVED FOR JES USAGE
		.... ..1.		CTXTR55	"X'02'" RESERVED FOR JES USAGE
		1		CTXTR56	"X'01'" RESERVED FOR JES USAGE
7	(7)	BITSTRING	1	CTXTR008	EIGHTH BYTE OF ROUTING CODES
		1...		CTXTR57	"X'80'" RESERVED FOR JES USAGE
		.1..		CTXTR58	"X'40'" RESERVED FOR JES USAGE
		..1.		CTXTR59	"X'20'" RESERVED FOR JES USAGE
		...1		CTXTR60	"X'10'" RESERVED FOR JES USAGE
		.... 1...		CTXTR61	"X'08'" RESERVED FOR JES USAGE
		.... .1..		CTXTR62	"X'04'" RESERVED FOR JES USAGE
		.... ..1.		CTXTR63	"X'02'" RESERVED FOR JES USAGE
		1		CTXTR64	"X'01'" RESERVED FOR JES USAGE
8	(8)	BITSTRING	1	CTXTR009	NINTH BYTE OF ROUTING CODES
		1...		CTXTR65	"X'80'" PROCESSOR RELATED MESSAGE
		.1..		CTXTR66	"X'40'" PROCESSOR RELATED MESSAGE
		..1.		CTXTR67	"X'20'" PROCESSOR RELATED MESSAGE
		...1		CTXTR68	"X'10'" PROCESSOR RELATED MESSAGE
		.... 1...		CTXTR69	"X'08'" PROCESSOR RELATED MESSAGE
		.... .1..		CTXTR70	"X'04'" PROCESSOR RELATED MESSAGE
		.... ..1.		CTXTR71	"X'02'" PROCESSOR RELATED MESSAGE
		1		CTXTR72	"X'01'" PROCESSOR RELATED MESSAGE
9	(9)	BITSTRING	1	CTXTR010	TENTH BYTE OF ROUTING CODES
		1...		CTXTR73	"X'80'" PROCESSOR RELATED MESSAGE

Table 658. Structure CTXTROUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CTXTR74	"X'40'" PROCESSOR RELATED MESSAGE
		..1.		CTXTR75	"X'20'" PROCESSOR RELATED MESSAGE
		...1		CTXTR76	"X'10'" PROCESSOR RELATED MESSAGE
		.... 1...		CTXTR77	"X'08'" PROCESSOR RELATED MESSAGE
		.... .1..		CTXTR78	"X'04'" PROCESSOR RELATED MESSAGE
		.... ..1.		CTXTR79	"X'02'" PROCESSOR RELATED MESSAGE
		1		CTXTR80	"X'01'" PROCESSOR RELATED MESSAGE
10	(A)	BITSTRING	1	CTXTR011	ELEVENTH BYTE OF ROUTING CODES
		1...		CTXTR81	"X'80'" PROCESSOR RELATED MESSAGE
		.1..		CTXTR82	"X'40'" PROCESSOR RELATED MESSAGE
		..1.		CTXTR83	"X'20'" PROCESSOR RELATED MESSAGE
		...1		CTXTR84	"X'10'" PROCESSOR RELATED MESSAGE
		.... 1...		CTXTR85	"X'08'" PROCESSOR RELATED MESSAGE
		.... .1..		CTXTR86	"X'04'" PROCESSOR RELATED MESSAGE
		.... ..1.		CTXTR87	"X'02'" PROCESSOR RELATED MESSAGE
		1		CTXTR88	"X'01'" PROCESSOR RELATED MESSAGE
11	(B)	BITSTRING	1	CTXTR012	TWELFTH BYTE OF ROUTING CODES
		1...		CTXTR89	"X'80'" PROCESSOR RELATED MESSAGE
		.1..		CTXTR90	"X'40'" PROCESSOR RELATED MESSAGE
		..1.		CTXTR91	"X'20'" PROCESSOR RELATED MESSAGE
		...1		CTXTR92	"X'10'" PROCESSOR RELATED MESSAGE
		.... 1...		CTXTR93	"X'08'" PROCESSOR RELATED MESSAGE
		.... .1..		CTXTR94	"X'04'" PROCESSOR RELATED MESSAGE
		.... ..1.		CTXTR95	"X'02'" PROCESSOR RELATED MESSAGE
		1		CTXTR96	"X'01'" PROCESSOR RELATED MESSAGE
12	(C)	BITSTRING	1	CTXTR013	THIRTEENTH BYTE OF ROUTING CODES
		1...		CTXTR97	"X'80'" DEVICE RELATED MESSAGE
		.1..		CTXTR98	"X'40'" DEVICE RELATED MESSAGE
		..1.		CTXTR99	"X'20'" DEVICE RELATED MESSAGE
		...1		CTXTR100	"X'10'" DEVICE RELATED MESSAGE
		.... 1...		CTXTR101	"X'08'" DEVICE RELATED MESSAGE

Table 658. Structure CTXTROUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		CTXTR102	"X'04'" DEVICE RELATED MESSAGE
		.... ..1.		CTXTR103	"X'02'" DEVICE RELATED MESSAGE
		1		CTXTR104	"X'01'" DEVICE RELATED MESSAGE
13	(D)	BITSTRING	1	CTXTR014	FOURTEENTH BYTE OF ROUTING CODES
		1...		CTXTR105	"X'80'" DEVICE RELATED MESSAGE
		.1..		CTXTR106	"X'40'" DEVICE RELATED MESSAGE
		..1.		CTXTR107	"X'20'" DEVICE RELATED MESSAGE
		...1		CTXTR108	"X'10'" DEVICE RELATED MESSAGE
		.... 1...		CTXTR109	"X'08'" DEVICE RELATED MESSAGE
		.... .1..		CTXTR110	"X'04'" DEVICE RELATED MESSAGE
		.... ..1.		CTXTR111	"X'02'" DEVICE RELATED MESSAGE
		1		CTXTR112	"X'01'" DEVICE RELATED MESSAGE
14	(E)	BITSTRING	1	CTXTR015	FIFTEENTH BYTE OF ROUTING CODES
		1...		CTXTR113	"X'80'" DEVICE RELATED MESSAGE
		.1..		CTXTR114	"X'40'" DEVICE RELATED MESSAGE
		..1.		CTXTR115	"X'20'" DEVICE RELATED MESSAGE
		...1		CTXTR116	"X'10'" DEVICE RELATED MESSAGE
		.... 1...		CTXTR117	"X'08'" DEVICE RELATED MESSAGE
		.... .1..		CTXTR118	"X'04'" DEVICE RELATED MESSAGE
		.... ..1.		CTXTR119	"X'02'" DEVICE RELATED MESSAGE
		1		CTXTR120	"X'01'" DEVICE RELATED MESSAGE
15	(F)	BITSTRING	1	CTXTR016	SIXTEENTH BYTE OF ROUTING CODES
		1...		CTXTR121	"X'80'" DEVICE RELATED MESSAGE
		.1..		CTXTR122	"X'40'" DEVICE RELATED MESSAGE
		..1.		CTXTR123	"X'20'" DEVICE RELATED MESSAGE
		...1		CTXTR124	"X'10'" DEVICE RELATED MESSAGE
		.... 1...		CTXTR125	"X'08'" DEVICE RELATED MESSAGE
		.... .1..		CTXTR126	"X'04'" DEVICE RELATED MESSAGE
		.... ..1.		CTXTR127	"X'02'" DEVICE RELATED MESSAGE
		1		CTXTR128	"X'01'" DEVICE RELATED MESSAGE

Table 659. Structure CTXTDESC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXTDESC	DESCRIPTOR CODES
0	(0)	BITSTRING	1	CTXTDC1	FIRST GROUP OF DESCRIPTOR CODES
		1...		CTXTDC01	"X'80'" CODE 1 - System failure
		.1..		CTXTDC02	"X'40'" CODE 2 - Immediate action
		..1.		CTXTDC03	"X'20'" CODE 3 - Eventual action
		...1		CTXTDC04	"X'10'" CODE 4 - System status
		.... 1...		CTXTDC05	"X'08'" CODE 5 - Command response
		.... .1..		CTXTDC06	"X'04'" CODE 6 - Job status
		.... ..1.		CTXTDC07	"X'02'" CODE 7 - Task-related
		1		CTXTDC08	"X'01'" CODE 8 - Out-of-line
1	(1)	BITSTRING	1	CTXTDC2	SECOND GROUP OF DESCRIPTOR CODES
		1...		CTXTDC09	"X'80'" CODE 9 - Operator request
		.1..		CTXTDC10	"X'40'" CODE 10 - RESERVED

Table 659. Structure CTXTDESC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		CTXTDC11	"X'20'" CODE 11 - Critical eventual
		...1		CTXTDC12	"X'10'" CODE 12 - Important info
		.... 1...		CTXTDC13	"X'08'" CODE 13 - Prev automated

Table 660. Structure CTXTFBCN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXTFBCN	4-BYTE CONSOLE ID
0	(0)	BITSTRING	1	CTXTFBCL	CONSOLE CLASS
1	(1)	BITSTRING	3	CTXT_FBNAME	CONSOLE NUMBER

Table 661. Structure CTXTPRFL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXTPRFL	REQUEST FLAGS (FROM THE USER EXIT TO THE SYSTEM)
0	(0)	CHARACTER	3	CTXTPF3B(0)	REQUEST FLAGS THREE BYTES
0	(0)	BITSTRING	1	CTXTPFB1	REQUEST FLAGS BYTE ONE
		1...		CTXTPCMT	"X'80'" CHANGE THE MESSAGE TEXT
		.1..		CTXTPCRC	"X'40'" CHANGE THE ROUTING CODE(S)
		..1.		CTXTPCDC	"X'20'" CHANGE THE DESCRIPTOR CODE(S)
		...1		CTXTPQPC	"X'10'" QUEUE TO A PARTICULAR ACTIVE CONSOLE
		.... 1...		CTXTPQUN	"X'08'" QUEUE TO A PARTICULAR CONSOLE UNCONDITIONALLY
		.... .1..		CTXTPQRC	"X'04'" QUEUE BY ROUTING CODES ONLY
		.... ..1.		CTXTRSV7	"X'02'" RESERVED (WAS CTXTPCCN)
		1		CTXTPPML	"X'01'" PROCESS MINOR LINES
1	(1)	BITSTRING	1	CTXTPFB2	REQUEST FLAGS BYTE TWO
		1...		CTXTPDTM	"X'80'" DELETE THE MESSAGE (NO HARDCOPY AND NO DISPLAY)
		.1..		CTXTPOMS	"X'40'" OVERRIDE MPF SUPPRESSION IF BEING SUPPRESSED BY MPF
		..1.		CTXTPFHC	"X'20'" FORCE HARDCOPY
		...1		CTXTPNHC	"X'10'" FORCE NO HARDCOPY
		.... 1...		CTXTPHCO	"X'08'" FORCE HARDCOPY ONLY
		.... .1..		CTXTPBCA	"X'04'" BROADCAST MESSAGE TO ALL ACTIVE CONSOLES
		.... ..1.		CTXTPBCN	"X'02'" DO NOT BROADCAST MESSAGE TO ALL ACTIVE CONSOLES
		1		CTXTPNRT	"X'01'" AMRF IS NOT TO RETAIN THIS MSG
2	(2)	BITSTRING	1	CTXTPFB3	REQUEST FLAGS BYTE THREE
		1...		CTXTPRET	"X'80'" AMRF IS TO RETAIN THIS MSG
		.1..		CTXTPCKY	"X'40'" CHANGE THE RETRIEVAL KEY

Table 661. Structure CTXTPRFL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		CTXTPCFC	"X'20'" CHANGE THE 4-BYTE CONSOLE ID
		...1		CTXTPCMF	"X'10'" CHANGE THE MESSAGE TYPE FLAGS
		.... 1...		CTXTPANO	"X'08'" AUTOMATION IS NOT REQUIRED AND ZERO TOKEN VALUE
		.... .1..		CTXTPAYS	"X'04'" AUTOMATION IS REQUIRED AND UPDATE TOKEN VALUE
3	(3)	BITSTRING	1		RESERVED FOR COMM TASK USE
4	(4)	SIGNED	4	CTXTPRFS(0)	EXTENDED REQUEST FLAGS (FROM THE INSTALLATION EXIT TO THE SYSTEM)
4	(4)	BITSTRING	1	CTXTPRF1	REQUEST FLAGS BYTE ONE
		1...		CTXTPMRY	"X'80'" PRIMARY SUBSYSTEM CAN ALTER MSG ROUTING
		.1..		CTXTPMRN	"X'40'" PRIMARY SUBSYSTEM CAN NOT ALTER MSG ROUTING
5	(5)	BITSTRING	1	CTXTPRF2	REQUEST FLAGS BYTE TWO
6	(6)	BITSTRING	1	CTXTPRF3	REQUEST FLAGS BYTE THREE
		1...		CTXTPSJL	"X'80'" SUPPRESS FROM JOBLOG
		.1..		CTXTPWTP	"X'40'" NO WTP PROCESSING
7	(7)	BITSTRING	1	CTXTPRF4	REQUEST FLAGS BYTE FOUR

Table 662. Structure CTXTCNME

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXTCNME	
0	(0)	CHARACTER	8		CONSOLE NAME

Table 663. Structure CTXTCDAM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTXTCDAM	12-BYTE COMMON DATA MAPPING
0	(0)	CHARACTER	4		4 BYTES USER DATA AREA
4	(4)	CHARACTER	8	CTXTCUDA	8 BYTES USER DATA AREA

Table 664. Cross Reference for CTXT

Name	Offset	Hex Tag
CTXT	0	
CTXT_FBNAME	1	
CTXT_MSG_TO_BE_DELETED	2D	4
CTXT_OVERRIDE_DELETION	32	1
CTXT_PROCESSED_BY_MFA	2D	8
CTXT_WTOR_MONITORED_BY_AUTOR	2D	2
CTXTACRN	0	
CTXTASID	8E	
CTXTATTR	0	
CTXTAUTT	60	
CTXTBLNK	7D	40
CTXTBLUE	7C	80

Table 664. Cross Reference for CTXT (continued)

Name	Offset	Hex Tag
CTXTBNPF	2E	
CTXTCART	50	
CTXTCDAM	0	
CTXTCIDA	2F	40
CTXTCNME	0	
CTXTCNMP	70	
CTXTCOLR	7C	
CTXTCUDA	4	
CTXTCWKP	74	
CTXTDCLN	1E	
CTXTDCP	24	
CTXTDC01	0	80
CTXTDC02	0	40
CTXTDC03	0	20
CTXTDC04	0	10
CTXTDC05	0	8
CTXTDC06	0	4
CTXTDC07	0	2
CTXTDC08	0	1
CTXTDC09	1	80
CTXTDC1	0	
CTXTDC10	1	40
CTXTDC11	1	20
CTXTDC12	1	10
CTXTDC13	1	8
CTXTDC2	1	
CTXTDESC	0	
CTXTDOMD	2E	80
CTXTEMCO	6C	20
CTXTEMHI	6C	10
CTXTEMIN	6C	8
CTXTEMRN	6C	40
CTXTEMRY	6C	80
CTXTERFS	6C	
CTXTERF1	6C	
CTXTERF2	6D	
CTXTERF3	6E	
CTXTERF4	6F	
CTXTESJL	6E	80
CTXTFBCL	0	
CTXTFBCN	0	
CTXTFCNP	34	
CTXTGREE	7C	10
CTXTHABD	2E	20
CTXTHILI	7D	
CTXTIHIG	7E	40
CTXTINOR	7E	80
CTXTINTN	7E	
CTXTIWKP	78	

Table 664. Cross Reference for CTXT (continued)

Name	Offset	Hex Tag
CTXTJBNM	48	
CTXTKEY	40	
CTXTMCS	4	0
CTXTMLID	15	
CTXTMTYA	1A	80
CTXTMTYB	1A	40
CTXTMTYF	1A	4
CTXTMTYP	1A	
CTXTMTY1	1A	
CTXTMTY2	1B	
CTXTNBEW	2E	40
CTXTNOHI	7D	80
CTXTNWTP	6E	40
CTXTOJBID	90	
CTXTPANO	2	8
CTXTPAYS	2	4
CTXTPBCA	1	4
CTXTPBCN	1	2
CTXTPCDC	0	20
CTXTPCFC	2	20
CTXTPCKY	2	40
CTXTPCMF	2	10
CTXTPCMT	0	80
CTXTPCRC	0	40
CTXTPDTM	1	80
CTXTPFB1	0	
CTXTPFB2	1	
CTXTPFB3	2	
CTXTPFHC	1	20
CTXTPF3B	0	
CTXTPHCO	1	8
CTXTPINK	7C	20
CTXTPMRN	4	40
CTXTPMRY	4	80
CTXTPNHC	1	10
CTXTPNRT	1	1
CTXTPOMS	1	40
CTXTPPML	0	1
CTXTPQPC	0	10
CTXTPQRC	0	4
CTXTPQUN	0	8
CTXTPREQ	38	
CTXTPRET	2	80
CTXTPRFL	0	
CTXTPRFS	4	
CTXTPRF1	4	
CTXTPRF2	5	
CTXTPRF3	6	
CTXTPRF4	7	

Table 664. Cross Reference for CTXT (continued)

Name	Offset	Hex Tag
CTXTPSJL	6	80
CTXTPWTP	6	40
CTXTRANO	32	8
CTXTRAYS	32	4
CTXTRBCA	31	4
CTXTRBCN	31	2
CTXTRCDC	30	20
CTXTRCFC	32	20
CTXTRCKY	32	40
CTXTRCLN	1C	
CTXTRCMF	32	10
CTXTRCMT	30	80
CTXTRCNM	32	2
CTXTRCP	20	
CTXTRCRC	30	40
CTXTRC1B	30	2
CTXTRDTM	31	80
CTXTRED	7C	40
CTXTREVD	7D	20
CTXTRFB1	30	
CTXTRFB2	31	
CTXTRFB3	32	
CTXTRFHC	31	20
CTXTRFLG	30	
CTXTRF3B	30	
CTXTRHCO	31	8
CTXTRNHC	31	10
CTXTRNRT	31	1
CTXTROMS	31	40
CTXTROUT	0	
CTXTRPID	18	
CTXTRPML	30	1
CTXTRPYB	80	
CTXTRPYI	86	
CTXTRPYL	84	
CTXTRQPC	30	10
CTXTRQRC	30	4
CTXTRQUN	30	8
CTXTRRET	32	80
CTXTRSV1	5	
CTXTRSV2	14	
CTXTRSV4	68	
CTXTRSV5	7F	
CTXTRSV7	0	2
CTXTR001	0	
CTXTR002	1	
CTXTR003	2	
CTXTR004	3	
CTXTR005	4	

Table 664. Cross Reference for CTXT (continued)

Name	Offset	Hex Tag
CTXTR006	5	
CTXTR007	6	
CTXTR008	7	
CTXTR009	8	
CTXTR01	0	80
CTXTR010	9	
CTXTR011	A	
CTXTR012	B	
CTXTR013	C	
CTXTR014	D	
CTXTR015	E	
CTXTR016	F	
CTXTR02	0	40
CTXTR03	0	20
CTXTR04	0	10
CTXTR05	0	8
CTXTR06	0	4
CTXTR07	0	2
CTXTR08	0	1
CTXTR09	1	80
CTXTR10	1	40
CTXTR100	C	10
CTXTR101	C	8
CTXTR102	C	4
CTXTR103	C	2
CTXTR104	C	1
CTXTR105	D	80
CTXTR106	D	40
CTXTR107	D	20
CTXTR108	D	10
CTXTR109	D	8
CTXTR11	1	20
CTXTR110	D	4
CTXTR111	D	2
CTXTR112	D	1
CTXTR113	E	80
CTXTR114	E	40
CTXTR115	E	20
CTXTR116	E	10
CTXTR117	E	8
CTXTR118	E	4
CTXTR119	E	2
CTXTR12	1	10
CTXTR120	E	1
CTXTR121	F	80
CTXTR122	F	40
CTXTR123	F	20
CTXTR124	F	10
CTXTR125	F	8

Table 664. Cross Reference for CTXT (continued)

Name	Offset	Hex Tag
CTXTR126	F	4
CTXTR127	F	2
CTXTR128	F	1
CTXTR13	1	8
CTXTR14	1	4
CTXTR15	1	2
CTXTR16	1	1
CTXTR17	2	80
CTXTR18	2	40
CTXTR19	2	20
CTXTR20	2	10
CTXTR21	2	8
CTXTR22	2	4
CTXTR23	2	2
CTXTR24	2	1
CTXTR25	3	80
CTXTR26	3	40
CTXTR27	3	20
CTXTR28	3	10
CTXTR29	3	8
CTXTR30	3	4
CTXTR31	3	2
CTXTR32	3	1
CTXTR33	4	80
CTXTR34	4	40
CTXTR35	4	20
CTXTR36	4	10
CTXTR37	4	8
CTXTR38	4	4
CTXTR39	4	2
CTXTR40	4	1
CTXTR41	5	80
CTXTR42	5	40
CTXTR43	5	20
CTXTR44	5	10
CTXTR45	5	8
CTXTR46	5	4
CTXTR47	5	2
CTXTR48	5	1
CTXTR49	6	80
CTXTR50	6	40
CTXTR51	6	20
CTXTR52	6	10
CTXTR53	6	8
CTXTR54	6	4
CTXTR55	6	2
CTXTR56	6	1
CTXTR57	7	80
CTXTR58	7	40

Table 664. Cross Reference for CTXT (continued)

Name	Offset	Hex Tag
CTXTR59	7	20
CTXTR60	7	10
CTXTR61	7	8
CTXTR62	7	4
CTXTR63	7	2
CTXTR64	7	1
CTXTR65	8	80
CTXTR66	8	40
CTXTR67	8	20
CTXTR68	8	10
CTXTR69	8	8
CTXTR70	8	4
CTXTR71	8	2
CTXTR72	8	1
CTXTR73	9	80
CTXTR74	9	40
CTXTR75	9	20
CTXTR76	9	10
CTXTR77	9	8
CTXTR78	9	4
CTXTR79	9	2
CTXTR80	9	1
CTXTR81	A	80
CTXTR82	A	40
CTXTR83	A	20
CTXTR84	A	10
CTXTR85	A	8
CTXTR86	A	4
CTXTR87	A	2
CTXTR88	A	1
CTXTR89	B	80
CTXTR90	B	40
CTXTR91	B	20
CTXTR92	B	10
CTXTR93	B	8
CTXTR94	B	4
CTXTR95	B	2
CTXTR96	B	1
CTXTR97	C	80
CTXTR98	C	40
CTXTR99	C	20
CTXTSAUT	2D	40
CTXTSBCA	2C	1
CTXTSEQN	10	
CTXTSFB1	2C	
CTXTSFB2	2D	
CTXTSFB4	2F	
CTXTSFHC	2C	10
CTXTSFLG	2C	

Table 664. Cross Reference for CTXT (continued)

Name	Offset	Hex Tag
CTXTSHCO	2C	4
CTXTSNHC	2C	8
CTXTSNMD	2D	20
CTXTSQPC	2C	80
CTXTSQUN	2C	40
CTXTSRET	2D	80
CTXTSRIS	2D	10
CTXTSRSP	2C	2
CTXTSSUP	2C	20
CTXTSYSN	58	
CTXTS212	4	1
CTXTS220	4	2
CTXTS410	4	3
CTXTS422	4	4
CTXTS720	4	9
CTXTTFB1	4	
CTXTTFB2	5	
CTXTTFLG	4	
CTXTTFMC	4	10
CTXTTFMD	4	4
CTXTTFME	4	2
CTXTTFMJ	4	20
CTXTTFML	4	8
CTXTTFMV	4	1
CTXTTFSL	4	80
CTXTTFWR	4	40
CTXTTLEN	0	
CTXTTLMX	2	
CTXTTMSG	6	
CTXTTOKN	3C	
CTXTTURQ	7C	8
CTXTTXPJ	8	
CTXTTXPN	C	
CTXTUNDR	7D	10
CTXTVERN	4	9
CTXTVRSN	4	
CTXTWHIT	7C	2
CTXTYELO	7C	4
CTXT1BCP	28	

Chapter 147. CVT Information

CVT Programming Interface Information

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

- CVTABEND
- CVTAMFF
- CVTASMVT
- CVTASVT
- CVTBRET
- CVTBSM0F
- CVTCSD
- CVTCTLFG
- CVTDCB
- CVTDCPA
- CVTDFA
- CVTECVT
- CVTEDAT2
- CVTEXIT
- CVTEXP1
- CVTFLAG2
- CVTFLAG3
- CVTFLAG5
- CVTFLAG6
- CVTFLGBT
- CVTGDA
- CVTGRSST
- CVTGVT
- CVTHID
- CVTIXAVL
- CVTJESCT
- CVTLCCAT
- CVTLDTO
- CVTLINK
- CVTLSO
- CVTMAXMP
- CVTMDL
- CVTOPCTP
- CVTOSLVL
- CVTOVER
- CVTPCCAT
- CVTPCNVT
- CVTPRLTV

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- CVTPROD
- CVTPSXM
- CVTQTD00
- CVTQTE00
- CVTRAC
- CVTRCEP
- CVTRCZRT
- CVTRELNO
- CVTRI
- CVTRTMCT
- CVTSAF
- CVTSCPIN
- CVTSDBF
- CVTSDUMP
- CVTSMCA
- CVTSNAME
- CVTSUBSP
- CVTSVT
- CVTTPC
- CVTTVT
- CVTTX
- CVTTXC
- CVTTXTE
- CVTTZ
- CVTUCBSC
- CVTUNDVM
- CVTUSER
- CVTVERID
- CVTVFGET
- CVTVFIND
- CVTVPSIB
- CVTVWAIT
- CVT0EF00
- CVT0PT0E
- CVT0PT02
- CVT0PT03
- CVT0SCR1

CVT Heading Information

Common Name:	Communications Vector Table
Macro ID:	CVT
DSECT Name:	CVT(when DSECT=YES is coded and PREFIX=YES is not coded) CVTFIX(when DSECT=YES and PREFIX=YES is coded) CVTMAP(or name user coded in label field of CVT invocation) CVTVSTGX(DSECT name of virtual storage extension) CVTXTNT1(DSECT name of OS-OS/VS common extension) CVTXTNT2(DSECT name of OS/VS1-OS/VS2 common extension)

Owning Component:	Common Macros (SC101)
Eye-Catcher ID:	CVT Offset: 96 Length: 4
Storage Attributes:	Subpool: Nucleus Key: 0 Residency: Below 16M line
Size:	Prefix: 256 bytes CVT: 1280 bytes Virtual storage address extension: 80 bytes OS - OS/VS common extension: 12 bytes OS/VS1 - OS/VS2 common extension: 132 bytes
Created by:	IEAVCVT
Pointed to by:	FLCCVT field of the PSA data area (location X'10') FLCCVT2 field of the PSA data area CVTSMEXT points to the Virtual address storage extension OS/VS - OS/VS extention is pointed to by CVTEXT1 OS/VS1 - OS/VS2 extention is pointed to by CVTEXT2
Serialization:	Based on the individual fields being referenced.
Function:	The CVT provides the means by which non-nucleus-resident routines may refer to information in the nucleus of the control program. It contains addresses of other control blocks and tables used by the control program routines.

CVT mapping

Table 665. Structure CVTFIX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
-256	(-100)	STRUCTURE	0	CVTFIX	- CVTMAP-256 - PREFIX
-256	(-100)	CHARACTER	216		- RESERVED
-40	(-28)	CHARACTER	16	CVTPROD(0)	- SYSTEM CONTROL PROGRAM PRODUCT LEVEL.
-40	(-28)	CHARACTER	8	CVTPRODN	PRODUCT NAME OF THE CONTROL PROGRAM, EX.(SP3.2). This is maintained for compatibility reasons only. The true product name version, release, and modification level information is in the ECVT (ECVTPNAM, PVER, PREL, PMOD). This can be considered a shorthand for the offical name

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		For z/OS V2R2 (HBB77A0), the value is SP7.2.2 For z/OS V2R1 (HBB7790), the value is SP7.2.1 For z/OS R13 (HBB7780), the value is SP7.1.3 For z/OS R12 (HBB7770), the value is SP7.1.2 For z/OS R11 (HBB7760), the value is SP7.1.1 For z/OS R10 (HBB7750), the value is SP7.1.0 For z/OS R9 (HBB7740), the value is SP7.0.9 For z/OS R8 (HBB7730), the value is SP7.0.8 For z/OS R7.1 (JBB772S), the value is SP7.S.7 For z/OS R7 (HBB7720), the value is SP7.0.7 For z/OS R6.1 (JBB77S9), the value is SP7.S.6 For z/OS R6 (HBB7709), the value is SP7.0.6 For z/OS R5 (HBB7708), the value is SP7.0.5 For z/OS R4 (HBB7707), the value is SP7.0.4 For z/OS R3 (HBB7706), the value is SP7.0.3 For z/OS R2 (HBB7705), the value is SP7.0.2 For z/OS R1 (JBB7713), the value is SP7.0.1 For OS/390 R10 (HBB7703), the value is SP6.1.0 For OS/390 R9 (JBB6609), the value is SP6.0.9 For OS/390 R8 (HBB6608), the value is SP6.0.8 For OS/390 R7 (JBB6607), the value is SP6.0.7 For OS/390 R6 (HBB6606), the value is SP6.0.6 For OS/390 R5 (HBB6605), the value is SP6.0.5 For OS/390 R4 (JBB6604), the value is SP6.0.4 For OS/390 R3 (HBB6603), the value is SP6.0.3 For OS/390 R2 (JBB6602), the value is SP6.0.2 For OS/390 R1 (HBB6601), the value is SP6.0.1 For MVS/ESA SP5.2.2 (JBB5522) the value is SP5.2.2 For MVS/ESA SPa.b.c the value is SPa.b.c			
-32	(-20)	CHARACTER	8	CVTPRODI	PRODUCT FMID IDENTIFIER FOR THE CONTROL PROGRAM, EX.(JBB1328).
-24	(-18)	CHARACTER	16	CVTVERID	OPTIONAL USER PERSONALIZATION OF SOFTWARE SYSTEM VERSION. (MDC415)
-8	(-8)	SIGNED	2		- RESERVED
-6	(-6)	CHARACTER	2	CVTMDL	- CPU NUMBER IN SIGNLESS PACKED DECIMAL, I.E., A 3090 PROCESSOR WOULD APPEAR AS X'3090'
-4	(-4)	CHARACTER	4	CVTRELNO(0)	- RELEASE NUMBER (EBCDIC)
-4	(-4)	CHARACTER	2	CVTNUMB	- RELEASE NUMBER YM2188
-2	(-2)	CHARACTER	2	CVTLEVL	- LEVEL NUMBER OF THIS RELEASE YM2188
		END OF CVT PREFIX THE FOLLOWING LINE ESTABLISHES THE HIGHEST DEGREE OF ALIGNMENT REQUIRED IN CVT PROPER, SO THAT THE BOUNDARY ALIGNMENT IS NOT DETERMINED BY THE ENDING OFFSET OF THE PRECEDING SECTION			
0	(0)	DBL WORD	8	(0)	- ESTABLISHES ALIGNMENT
0	(0)	X'100'	0	CVTMAP	"*" - CVTPTR CONTENT POINTS HERE
0	(0)	ADDRESS	4	CVTTCBP	"V(IEATCBP)" - Address of PSATNEW.
4	(4)	ADDRESS	4	CVT0EF00	"V(IEA0EF00)" - ADDRESS OF ROUTINE TO SCHEDULE ASYNCHRONOUS EXITS

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	ADDRESS	4	CVTLINK	"V(IEFLINK)" - ADDRESS OF DCB FOR SYS1.LINKLIB DATA SET. UPDATED BY CONTENTS SUPERVISION RIM. OWNERSHIP: CONTENTS SUPERVISION.
12	(C)	ADDRESS	4	CVTAUSCB	"V(IEFAUSDM)" - ADDRESS OF ASSIGN/UNASSIGN SERVICE DATA MODULE.
16	(10)	ADDRESS	4	CVTBUF	- ADDRESS OF THE BUFFER OF THE RESIDENT CONSOLE INTERRUPT ROUTINE
20	(14)	ADDRESS	4	CVTXAPG	"V(IECXAPG)" - ADDRESS OF I/O SUPERVISOR APPENDAGE VECTOR TABLE
24	(18)	ADDRESS	4	CVT0VL00	"V(IEA0VL00)" - ADDRESS OF ENTRY POINT OF THE TASK SUPERVISOR'S ADDRESS VALIDITY CHECKING ROUTINE
28	(1C)	ADDRESS	4	CVTPCNVT	"V(IECPCNVT)" - ADDRESS OF ENTRY POINT OF THE ROUTINE WHICH CONVERTS A RELATIVE TRACK ADDRESS (TTR) TO AN ABSOLUTE TRACK ADDRESS (MBBCCHHR)
32	(20)	ADDRESS	4	CVTPRLTV	"V(IECPRLTV)" - ADDRESS OF ENTRY POINT OF THE ROUTINE WHICH CONVERTS AN ABSOLUTE TRACK ADDRESS (MBBCCHHR) TO A RELATIVE TRACK ADDRESS (TTR)
36	(24)	ADDRESS	4	CVTLLCB	"V(CSVLLCB)" - ADDRESS OF THE LLCB.
40	(28)	ADDRESS	4	CVTLLTRM	"V(CSVLLTRM)" - ADDRESS OF LLA'S MEMORY TERNIMATION RESOURCE MANAGER.
44	(2C)	ADDRESS	4	CVTXTLER	"V(IECXTLER)" - ADDRESS OF ERROR RECOVERY PROCEDURE (ERP) LOADER (IECVERPL) ENTRY POINT IECXTLER (MDC349)
48	(30)	ADDRESS	4	CVTSYSAD	- UCB ADDRESS FOR THE SYSTEM RESIDENCE VOLUME (MDCXXX)
52	(34)	ADDRESS	4	CVTBTERM	"V(IEAVTRG1)" - ADDRESS OF ENTRY POINT OF THE ABTERM ROUTINE @(DCR854)
56	(38)	SIGNED	4	CVTDATE	- CURRENT DATE IN PACKED DECIMAL
60	(3C)	ADDRESS	4	CVTMSLT	"V(IEEMSER)" - ADDRESS OF THE MASTER COMMON AREA IN MASTER SCHEDULER RESIDENT DATA AREA. NOTE - USE CVTMSER INSTEAD TO ADDRESS MASTER SCHEDULER RESIDENT DATA AREA
64	(40)	ADDRESS	4	CVTZDTAB	- ADDRESS OF I/O DEVICE CHARACTERISTIC TABLE
68	(44)	ADDRESS	4	CVTXITP	"V(IECXITP)" - ADDRESS OF ERROR INTERPRETER ROUTINE

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
72	(48)	ADDRESS	4	CVT0EF01	"V(IEA0EF01)" ENTRY POINT IN STAGE II EXIT EFFECTOR USED BY SCHEDXIT MACRO
76	(4C)	SIGNED	4	CVTVPRM(0)	VECTOR PARAMETERS
76	(4C)	SIGNED	2	CVTVSS	VECTOR SECTION SIZE
78	(4E)	SIGNED	2	CVTVPSM	VECTOR PARTIAL SUM NUMBER
80	(50)	SIGNED	2	CVTEXIT	- An SVC 3 instruction. Exit to dispatcher. This is a programming interface for IRBs only. An IRB may return to the system by branching to this location
82	(52)	SIGNED	2	CVTBRET	- A BR 14 INSTRUCTION. RETURN TO CALLER (USED BY DATA MANAGEMENT ROUTINES)
84	(54)	ADDRESS	4	CVTSVDCB	"V(IEASVDCB)" - ADDRESS OF THE DCB FOR THE SYS1.SVCLIB DATA SET
88	(58)	ADDRESS	4	CVTTPC	"V(IEATPC)" - ADDRESS OF THE TIMER SUPERVISOR WORK AREA
92	(5C)	SIGNED	4	CVTFLGCS(0)	- Flags set by CS
92	(5C)	BITSTRING	1	CVTFLGC0	- Flags
		1...		CVTMULNF	"X'80'" - For users of IFAUSAGE, REQUEST=FUNCTIONxxx calls need not be done. This correlates to the NOMULCFUNC parameter in SMFPRMxx
93	(5D)	BITSTRING	1	CVTFLGC1	- Flags
94	(5E)	SIGNED	2	CVTICPID	- IPL'ED CPU PHYSICAL ID
96	(60)	CHARACTER	4	CVTCVT	- CVT ACRONYM IN EBCDIC (EYE-CATCHER)
100	(64)	ADDRESS	4	CVTCUCB	"V(IEECUCB)" - ADDRESS OF THE UNIT CONTOL MODULE (UCM)
104	(68)	ADDRESS	4	CVTQTE00	"V(IEAQTE00)" - ADDRESS OF THE TIMER ENQUEUE ROUTINE FOR INTERVAL TIMER
108	(6C)	ADDRESS	4	CVTQTD00	"V(IEAQTD00)" - ADDRESS OF THE TIMER DEQUEUE ROUTINE FOR INTERVAL TIMER
112	(70)	ADDRESS	4	CVTSTB	- ADDRESS OF THE I/O DEVICE STATISTICS TABLE
116	(74)	BITSTRING	1	CVTDCB	- OPERATING SYSTEM FOR S/370-XA MODE EXECUTION, CVTMVSE, CVT4MS1, CVTOSEXT, CVT6DAT, AND CVTMVS2 ARE SET ON AT CVT CREATION
		1...		CVTMVSE	"X'80'" - S/370-XA MODE EXECUTION
		.1..		CVT1SSS	"X'40'" - OPTION 1 (PCP) SSS. ALSO, LANGUAGE COMPILERS MAY USE THIS BIT TO DETERMINE IF THEY ARE RUNNING UNDER OS OR VM (WILL BE 0 FOR OS).
		..1.		CVT2SPS	"X'20'" - OPTION 2 (MFT) SPS, OS/VS1, VSE

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		CVT4MS1	"X'10'" - OPTION 4 (MVT) MS1, OS/VS2
		.... 1...		CVTOSEXT	"X'08'" - INDICATOR THAT THE CVTOSLVL AREA IS PRESENT AND MAY BE REFERENCED.
		.... .1..		CVT4MPS	"X'04'" - MODEL 65 MULTIPROCESSING
		.... ..1.		CVT6DAT	"X'02'" - DYNAMIC ADDRESS TRANSLATION BY CPU (OS/VS1, OS/VS2)
		1		CVTMVS2	"X'01'" - MULTIPLE MEMORY OPTION OF OS/VS2 IS PRESENT MDC131
116	(74)	X'12'	0	CVT8AOS2	"CVT4MS1+CVT6DAT" - OS/VS2 SYSTEM
117	(75)	ADDRESS	3	CVTDCBA	"VL3(IFBDCB)" - ADDRESS OF THE DCB FOR THE SYS1.LOGREC (OUTBOARD RECORDER) DATA SET FOR SYSTEM ENVIRONMENT RECORDING (SER)
120	(78)	SIGNED	4	CVTSV76M	- SVC 76 MESSAGE COUNT FIELD (OS/VS2) (MDC372)
124	(7C)	ADDRESS	4	CVTIXAVL	"V(IECIXAVL)" - ADDRESS OF THE I/O SUPERVISOR'S FREELIST POINTER WHICH CONTAINS THE ADDRESS OF THE NEXT REQUEST ELEMENT (OS/VS1) ADDRESS OF THE I/O SUPERVISOR'S COMMUNICATION AREA (IOCOM) (OS/VS2)
128	(80)	ADDRESS	4	CVTNUCB	- RESERVED (MDCXXX)
132	(84)	ADDRESS	4	CVTFBOSV	"V(IEWFBOSV)" - ADDRESS OF PROGRAM FETCH ROUTINE
136	(88)	ADDRESS	4	CVT0DS	"V(IEA0DS)" - ADDRESS OF ENTRY POINT OF THE DISPATCHER
140	(8C)	ADDRESS	4	CVTECVT	"V(IEAECVT)" - POINTER TO THE EXTENDED CVT
144	(90)	ADDRESS	4	CVTDAIRX	- ADDRESS OF THE 31- BIT ENTRY POINT OF IKJDAIR, TSO DYNAMIC ALLOCATION INTERFACE ROUTINE.
148	(94)	ADDRESS	4	CVTMSER	"V(IEEMSER)" - ADDRESS OF DATA AREA OF MASTER SCHEDULER RESIDENT DATA AREA
152	(98)	ADDRESS	4	CVT0PT01	"V(IEA0PT01)" - ADDRESS OF BRANCH ENTRY POINT OF POST ROUTINE
156	(9C)	ADDRESS	4	CVTTVT	- ADDRESS OF TSO VECTOR TABLE
160	(A0)	SIGNED	4	CVT040ID	- IFB040I WTO MESSAGE ID. OWNERSHIP: OUTBOARD RECORDING (OBR). SERIALIZATION: COMPARE AND SWAP.
164	(A4)	BITSTRING	4	CVTMZ00	- HIGHEST ADDRESS IN VIRTUAL STORAGE FOR THIS MACHINE @(PCC0178)
168	(A8)	ADDRESS	4	CVT1EF00	- ADDRESS OF ROUTINE WHICH CREATES IRB'S FOR EXITS

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
172	(AC)	ADDRESS	4	CVTQOCR	- GRAPHICS INTERFACE TASK (GFX) FIELD. ADDRESS OF SEVENTH WORD OF GFX PARAMETER LIST, IF GFX IS ACTIVE. ZERO IF GFX IS NOT ACTIVE
176	(B0)	ADDRESS	4	CVTQMWR	"V(IEFQMWR)" - ADDRESS OF THE ALLOCATION COMMUNICATION AREA (MAPPED BY IEFZB432) - CONTAINS THE ADDRESSES OF SERVICE ROUTINES AND THE CHAIN OF MOUNT AND VERIFY COMMUNICATION AREAS.
180	(B4)	SIGNED	2	CVTSNCTR	- SERIAL NUMBER COUNTER FOR ASSIGNING SERIAL NUMBERS TO NON-SPECIFIC, UNLABELED MAGNETIC TAPE VOLUMES
182	(B6)	BITSTRING	1	CVTOPTA	- OPTION INDICATORS
		1...		CVTCCH	"X'80'" - CHANNEL CHECK HANDLER (CCH) OPTION PRESENT - RECOVERY MANAGEMENT SUPPORT (RMS) XM4686
		.1..		CVTAPR	"X'40'" - ALTERNATE PATH RETRY (APR) OPTION PRESENT - RECOVERY MANAGEMENT SUPPORT (RMS)
		..1.		CVTDDR	"X'20'" - DYNAMIC DEVICE RECONFIGURATION (DDR) OPTION PRESENT - RECOVERY MANAGEMENT SUPPORT (RMS) (OS/VS1) DDR SYSTEM-INITIATED SWAP ACTIVE (OS/VS2) MDC126
		...1		CVTNIP	"X'10'" - NIP IS EXECUTING
		.... 1...		CVTWARNUND	"X'08'" WARNUND processing is in effect
		.... .1..		CVT121TR	"X'04',,C'X'" - DO NOT TRANSLATE EXCP V=R.
		.... ..1.		CVTASCII	"X'02'" - ASCII TAPE PROCESSING IS GENERATED IN THIS SYSTEM
		1		CVTXPFP	"X'01'" - CPU HAS EXTENDED PRECISION FLOATING POINT FEATURE
183	(B7)	BITSTRING	1	CVTOPTB	- MISCELLANEOUS FLAGS
		1...		CVTPROT	"X'80'" - CPU HAS STORE PROTECTION FEATURE (OS/VS1)
		.1..		CVTCTIMS	"X'40'" - IF ON, HARDWARE HAS THE CLOCK COMPARATOR AND CPU TIMER FEATURE INSTALLED, AND OS/VS1 SYSGEN HAS SPECIFIED THIS FEATURE (OS/VS1) MDC127
		..1.		CVTTOD	"X'20'" - CPU HAS TIME-OF-DAY CLOCK FEATURE
		...1		CVTNLOG	"X'10'" - SYS1.LOGREC IS UNAVAILABLE FOR ERROR RECORDING. ALWAYS SET TO ZERO FOR OS/VS1. MDC127

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		CVTAPTHR	"X'08'" - NIP SETS THIS BIT TO 1 WHEN DEVICE TESTING IS COMPLETE. IF 1, I/O SUPERVISOR USES AN ALTERNATE PATH TO A DEVICE WHEN A CONDITION CODE OF 3 EXISTS. THIS BIT IS RESET TO 0 BY NIP AFTER THE LINK PACK AREA IS INITIALIZED. YM2670
		.... .1..		CVTFP	"X'04'" - CPU HAS FETCH PROTECTION FEATURE (OS/VS1) ICB427
		.... ..1.		CVTVS1A	"X'02'" - VS1 ASSIST IS AVAILABLE FOR USE (OS/VS1) (MDC353)
		1		CVTVS1B	"X'01'" - VS1 ASSIST SUBSET IS AVAILABLE FOR USE (OS/VS1) (MDC365)
184	(B8)	ADDRESS	4	CVTQCDSR	"V(IEAQCDSR)" - CDE SEARCH ROUTINE ADDRESS (OS/VS2)
188	(BC)	ADDRESS	4	CVTQLPAQ	"V(IEAQLPAQ)" - ADDRESS OF POINTER TO MOST RECENT ENTRY ON LINK PACK AREA CDE QUEUE (OS/VS2)
192	(C0)	ADDRESS	4	CVTENFCT	"V(IEFENFDM)" EVENT NOTIFICATION CONTROL TABLE (MDC409)
196	(C4)	ADDRESS	4	CVTSMCA	- ADDRESS OF THE SYSTEM MANAGEMENT CONTROL AREA (SMCA) IF THE SYSTEM MANAGEMENT FACILITIES (SMF) OPTION IS PRESENT IN THE SYSTEM. OTHERWISE, ZERO.
200	(C8)	ADDRESS	4	CVTABEND	"V(IEABEND)" - ADDRESS OF SECONDARY CVT FOR ABEND IN EOT (OS/VS2)
204	(CC)	ADDRESS	4	CVTUSER	- A WORD AVAILABLE TO THE USER
208	(D0)	ADDRESS	4	CVTMDLDS	- RESERVED FOR MODEL-DEPENDENT SUPPORT
212	(D4)	SIGNED	2	CVTQABST	- AN SVC 13 (ABEND) INVOCATION (OS/VS2)
214	(D6)	SIGNED	2	CVTLNKSC	- AN SVC 6 (LINK) INVOCATION
216	(D8)	ADDRESS	4	CVTTSCE	- ADDRESS OF THE FIRST TIME SLICE CONTROL ELEMENT (TSCE)
220	(DC)	ADDRESS	4	CVTPATCH	"V(IEAPATCH)" - ADDRESS OF A 200-BYTE FE PATCH AREA
224	(E0)	ADDRESS	4	CVTRMS	"V(IGFRVT)" - RECOVERY MANAGEMENT SUPPORT (RMS) COMMUNICATIONS VECTOR. ADDRESS OF A MACHINE STATUS BLOCK.
228	(E4)	ADDRESS	4	CVTSPDME	- SERVICE PROCESSOR DAMAGE MONITOR ECB.
232	(E8)	ADDRESS	4	CVT0SCR1	"V(IEC0SCR1)" - ADDRESS OF THE SECTOR CALCULATION ROUTINE FOR ROTATIONAL POSITION SENSING (RPS)

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
236	(EC)	ADDRESS	4	CVTGTF(0)	- GENERALIZED TRACE FACILITY (GTF) CONTROL WORD ICB312
236	(EC)	ADDRESS	1	CVTGTFST	- GTF FLAG BYTES ICB312
		1...		CVTGTFAV	"X'80'" - IF ZERO, GTF NOT ACTIVE. IF ONE, GTF ACTIVE. (OS/VS2) MDC098
		.1..		CVTSPD	"X'40'" - SERVICE PROCESSOR DAMAGE. (1) INDICATES DAMAGE. (0) INDICATES NO DAMAGE.
		..1.		CVTWSPR	"X'20'" - WAITING FOR SERVICE PROCESSOR RESPONSE. (1) INDICATES OUTSTANDING REQUEST. (0) INDICATES NO OUTSTANDING REQUEST.
		.... .1..		CVTUSR	"X'04'" - TRACE=USR SPECIFIED. USER-REQUESTED TRACE DATA IS TO BE INCLUDED IN THE TRACE DATA SET. (MDC317)
		.... ..1.		CVTRNIO	"X'02'" - GTF IS ACTIVE AND TRACING RNIO EVENTS MDC187
237	(ED)	ADDRESS	3	CVTGTFA	"VL3(AHLHEAD)" -ADDRESS OF MAIN MONITOR CALL ROUTING TABLE, MCHEAD (OS/VS2) MDC156
240	(F0)	ADDRESS	4	CVTAQAVT(0)	- ADDRESS OF THE FIRST WORD OF THE TCAM DISPATCHER WHICH CONTAINS THE ADDRESS OF THE ADDRESS VECTOR TABLE (AVT). IF ZERO, TCAM IS NOT STARTED.
240	(F0)	BITSTRING	1	CVTTCMFG	- TCAM FLAGS
		1...		CVTTCRDY	"X'80'" - TCAM IS READY TO ACCEPT USERS
		.1..		CVTLDEV	"X'40'" - LOCAL DEVICE ATTACHED TO TCAM (MDC357)
		..1.		CVTNWTCM	"X'20'" - MULTIPLE TCAM FEATURE ACTIVE.
241	(F1)	ADDRESS	3	CVTAQAVB	- SAME AS CVTAQAVT ABOVE
244	(F4)	BITSTRING	1	CVTFLAG5	Flags, refreshed upon error, set during NIP and never changed
		1...		CVTVEF	"X'80'" Vector Extension Facility
		1...		CVTZ1	"X'80'" Z1
245	(F5)	BITSTRING	1	CVTFLAG6	More flags
		1...		CVTSOLED	"X'80'" Solution Edition
246	(F6)	BITSTRING	1	CVTFLAG7	More flags
247	(F7)	BITSTRING	1	CVTFLAG8	More flags
248	(F8)	ADDRESS	4	CVTSAF	- ADDRESS OF ROUTER VECTOR TABLE. @(PCC0549)
252	(FC)	ADDRESS	4	CVTEXT1	- ADDRESS OF OS - OS/VS COMMON EXTENSION ICB421
256	(100)	ADDRESS	4	CVTCBSP	- ADDRESS OF ACCESS METHOD CONTROL BLOCK STRUCTURE MDC195
260	(104)	ADDRESS	4	CVTPURG(0)	- ADDRESS OF SUBSYSTEM PURGE ROUTINE ICB330

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
260	(104)	BITSTRING	1		- RESERVED - FIRST BYTE OF CVTPURG
261	(105)	ADDRESS	3	CVTPURGA	- ADDRESS OF SUBSYSTEM PURGE ROUTINE ICB330
264	(108)	BITSTRING	4	CVTAMFF	- RESERVED FOR ACCESS METHOD FLAGS ICB436
268	(10C)	ADDRESS	4	CVTQMSG	"V(IEAVMSGS)" - ADDRESS OF INFORMATION TO BE PRINTED BY ABEND. @(PCC0521)
272	(110)	ADDRESS	4	CVTDMSR(0)	- SAME AS CVTDMSRA BELOW ICB346
272	(110)	BITSTRING	1	CVTDMSRF	- OPEN/CLOSE/EOV FLAG BYTE. SETTING BOTH BIT 0 AND BIT 1 ON WILL CAUSE BOTH KINDS OF DUMPS TO BE TAKEN. THESE BITS ARE USED DURING TESTING AND DEBUGGING WHEN OTHER DEBUG METHODS ARE INEFFECTIVE. (OS/VS2) (MDC350)
		1...		CVTSDUMP	"X'80'" - SET BY COREZAP. WILL CAUSE AN SDUMP TO BE TAKEN AND IEC999I MESSAGE ISSUED FOR EVERY ABEND ISSUED WITHIN AN OPEN/CLOSE/EOV OR DADSM FUNCTION. (OS/VS2) (MDC351)
		.1..		CVTUDUMP	"X'40'" - SET BY COREZAP. WILL CAUSE AN ABEND DUMP TO BE TAKEN FOR EVERY ABEND ISSUED WITHIN AN OPEN/CLOSE/EOV OR DADSM FUNCTION. (OS/VS2) (MDC352)
273	(111)	ADDRESS	3	CVTDMSRA	- ADDRESS OF THE OPEN/CLOSE/EOV SUPERVISORY ROUTINE IN THE NUCLEUS. THIS ROUTINE HANDLES THE ROUTING OF CONTROL AMONG THE I/O SUPPORT ROUTINES. ICB346
276	(114)	ADDRESS	4	CVTSFR	"V(IEAVTSFR)" - ADDRESS OF SETFRR ROUTINE (IEAVTSFR) (MDC414)
280	(118)	ADDRESS	4	CVTGXL	"V(CSVMEM)" - ADDRESS OF CONTENTS SUPERVISION MEMORY TERMINATION ROUTINE OWNERSHIP - CONTENTS SUPERVISION.
284	(11C)	ADDRESS	4	CVTREAL	- ADDRESS OF THE VIRTUAL STORAGE BYTE FOLLOWING THE HIGHEST V=R STORAGE ADDRESS. @(PCC1294)
288	(120)	ADDRESS	4	CVTPTRV	"V(IEAPTRV)" - ADDRESS OF PAGING SUPERVISOR GENERAL ROUTINE TO TRANSLATE 24 BIT REAL ADDRESSES TO VIRTUAL ADDRESSES.
292	(124)	ADDRESS	4	CVTIHVP	- POINTER TO IHV$COMM. INITIALIZED TO ZERO. OWNER: IHV/DATA HANDLER. SET BY: IHVSTRTM. SERIALIZATION: NONE.
296	(128)	ADDRESS	4	CVTJESCT	"V(IEFJESCT)" - ADDRESS OF JOB ENTRY SUBSYSTEM (JES) CONTROL TABLE ICB342
300	(12C)	BITSTRING	4	CVTRS12C	- RESERVED

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
304	(130)	SIGNED	4	CVTTZ	- Difference between local time and UTC (Coordinated Universal Time) in binary units of 1.048576 seconds. Contains the same value as CVTLDTOL. CVTLDTO (which contains CVTLDTOL) has this difference to a finer degree of accuracy.
308	(134)	ADDRESS	4	CVTMCHPR	- ADDRESS OF MACHINE CHECK PARAMETER LIST
312	(138)	ADDRESS	4	CVTEORM	- POTENTIAL REAL HIGH STORAGE ADDRESS. ONLY VALID PRE-z/Architecture. (SEE ECVTEORM IN IHAECVT).
316	(13C)	ADDRESS	4	CVTPTRV3	"V(IEAVTRV3)" - ADDRESS OF PAGING SUPERVISOR ROUTINE TO TRANSLATE REAL ADDRESSES WHICH MAY EXCEED 24 BITS TO VIRTUAL ADDRESSES.
320	(140)	ADDRESS	4	CVTLKRM	"V(IEAVLKRM)" ADDRESS OF CML LOCK RESOURCE MANAGER
324	(144)	ADDRESS	4	CVTAPF(0)	- SAME AS CVTAPFA BELOW ICB360
324	(144)	BITSTRING	1		- RESERVED - FIRST BYTE OF CVTAPF
325	(145)	ADDRESS	3	CVTAPFA	"VL3(IEAVTEST)" ADDRESS OF BRANCH ENTRY POINT IN AUTHORIZED PROGRAM FACILITY (APF) ROUTINE
328	(148)	ADDRESS	4	CVTEXT2(0)	- ADDRESS OF OS/VS1 - OS/VS2 COMMON EXTENSION ICB330
328	(148)	BITSTRING	1		- RESERVED - FIRST BYTE OF CVTEXT2
329	(149)	ADDRESS	3	CVTEXT2A	SAME AS CVTEXT2 ABOVE ICB330
332	(14C)	ADDRESS	4	CVTHJES(0)	- SAME AS CVTHJESA BELOW ICB454
332	(14C)	BITSTRING	1		- RESERVED - FIRST BYTE OF CVTHJES
333	(14D)	ADDRESS	3	CVTHJESA	- ADDRESS OF OPTIONAL JOB ENTRY SUBSYSTEM (JES) COMMUNICATION VECTOR TABLE ICB454
336	(150)	BITSTRING	4	CVTRSTW2(0)	- STATUS DATA FOR RESTART FLIH OWNERSHIP: RESTART FLIH SERIALIZATION: RESTART RESOURCE
336	(150)	BITSTRING	1	CVTRS150	- Reserved. Was CVTRSTCP: LOGICAL CPU ADDRESS OF TARGET OF RESTART.
337	(151)	BITSTRING	1	CVTRSTRS	- RESTART REASON.
338	(152)	SIGNED	2	CVTRCP2B	- Logical CPU address of target of the restart.
340	(154)	CHARACTER	8	CVTSNAME	SYSTEM NAME FOR CURRENT SYSTEM. OWNERSHIP: IPL/NIP. SERIALIZATION: NONE. @(PCC0452)
348	(15C)	ADDRESS	4	CVTGETL	- ADDRESS OF IKJGETL, TSO GET LINE ROUTINE (MDC206) YM2225
352	(160)	ADDRESS	4	CVTLPDSR	"V(IEAVVMSR)" - ADDRESS OF LINK PACK AREA (LPA) DIRECTORY SEARCH ROUTINE

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
356	(164)	ADDRESS	4	CVTPVTP	"V(IARMPVT)" - ADDRESS OF PAGE VECTOR TABLE
360	(168)	ADDRESS	4	CVTLPDIA(0)	- ADDRESS OF LINK PACK AREA (LPA) DIRECTORY (ON PAGE BOUNDARY)
360	(168)	BITSTRING	1	CVTDIRST	- FLAG BYTE
		1...		CVTDICOM	"X'80'" - LPA DIRECTORY HAS BEEN INITIALIZED BY NIP
361	(169)	ADDRESS	3	CVTLPDIR	- ADDRESS OF LINK PACK AREA (LPA) DIRECTORY (ON PAGE BOUNDARY)
364	(16C)	ADDRESS	4	CVTRBCB	- ADDRESS OF THE RECORD BUFFER'S CONTROL BLOCK
368	(170)	BITSTRING	4	CVTRS170	- RESERVED
372	(174)	CHARACTER	4	CVTSLIDA(0)	- IDENTITY OF TCB CAUSING SUPERVISOR LOCK BYTE (CVTSYLK) TO BE SET OR IDENTITY OF TCB THAT SECOND EXIT PROCESSING IS FOR WHEN CVTSEIC=1
372	(174)	BITSTRING	1	CVTSYLK	- SUPERVISOR LOCK. ONLY ENABLED TASKS MAY BE DISPATCHED
		1111 1111		CVTSYLKS	"X'FF'" - SET LOCK BYTE
		....		CVTSYLKR	"X'00'" - RESET LOCK BYTE
373	(175)	ADDRESS	3	CVTSLID	- SAME AS CVTSLIDA ABOVE
376	(178)	SIGNED	4	CVTFLAGS(0)	- SYSTEM GLOBAL FLAGS
376	(178)	BITSTRING	1	CVTFLAG1	- FLAG BYTE
		1...		CVTRSMWD	"X'80'" - IF ONE REAL STORAGE MANAGER WINDOW WAS BUILT, INITIALIZED BY NIP.
		.1..		CVTSVPRC	"X'40'" - SERVICE PROCESSOR ARCHITECTURE SUPPORTED.
		..1.		CVTCUSE	"X'20'" - CUSE. SET BY NIP
		...1		CVTMVPG	"X'10'" - IF ONE, MOVEPAGE CAPABILITY IS PRESENT ON THIS SYSTEM. INITIALIZED BY NIP
		.... 1...		CVTOVER	"X'08'" - SUBPOOL OVERRIDE IS SUPPORTED. INITIALIZED BY NIP.
		.... .1..		CVTCSTR	"X'04'" - IF ONE, CSTRING FACILITY IS PRESENT ON THIS SYSTEM. INITIALIZED BY NIP.
		.... ..1.		CVTSUBSP	"X'02'" - IF ONE, SUBSPACE FACILITY IS PRESENT ON THIS SYSTEM. INITIALIZED BY NIP.
		1		CVTKPAR	"X'01'" - RESERVED FOR USE BY RTM ONLY. OWNERSHIP: RTM SERIALIZATION: NONE.
377	(179)	BITSTRING	1	CVTFLAG2	- FLAG BYTE
		1...		CVTCMPSC	"X'80'" - IF ONE, INDICATES PRESENCE OF MVS COMPRESSION/EXPANSION SERVICE. INITIALIZED ON. OWNERSHIP: CALLABLE SERVICES. SERIALIZATION: NONE.

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CVTCMPSH	"X'40'" - IF ONE, INDICATES PRESENCE OF CMPSC COMPRESSION/EXPANSION HARDWARE INSTRUCTION SET BY NIP. OWNERSHIP: CALLABLE SERVICES. SERIALIZATION: NONE (UNCHANGED AFTER NIP).
		..1.		CVTSOPF	"X'20'" - IF ONE, INDICATES PRESENCE OF THE SUPPRESSION-ON-PROTECTION HARDWARE FACILITY. SET BY NIP. OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: NONE (UNCHANGED AFTER NIP).
		...1		CVTBFPH	"X'10'" - If one, indicates presence of BFP hardware instruction set. Set by NIP. Ownership: Supervisor. Serialization: None (unchanged after NIP).
		.... 1...		CVTPER2	"X'08'" - If one, indicates presence of PER2 hardware on all CPUs Set by NIP. Ownership: Supervisor. Serialization: None (unchanged after NIP).
		.... .1..		CVTIQD	"X'04'" - If one, indicates that Internal Queued Direct Communications is supported. Set by IOS during NIP. Ownership: IOS Serialization: None (unchanged after NIP).
		.... ..1.		CVTALR	"X'02'" - If one, indicates ASN and LX Reuse Architecture is enabled. Set by NIP. Ownership: Supervisor. Serialization: None (unchanged after NIP).
		1		CVTEDAT	"X'01'" - If one, indicates that the Enhanced DAT Architecture is available Set by NIP. Ownership: Supervisor. Serialization: None (unchanged after NIP).
378	(17A)	BITSTRING	1	CVTFLAG3	- FLAG BYTE refreshed upon error, set during NIP and never changed
		1...		CVTESAME	"X'80'" -
		1...		CVTZARCH	"X'80'" - If one, indicates presence of z/Architecture hardware. Note that it is often simpler to check if PSA field FLCARCH is non-zero to determine this. Set by NIP. Ownership: Supervisor. Serialization: None (unchanged after NIP).
		.1..		CVTPROCASCORE	"X'40'" A processor resource is viewed as a CPU Core

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		CVTMULTICPUSPERCORE	"X'20'" When CvtProcAsCore is on, this indicates there are multiple CPUs defined within a CPU Core (On MT hardware). When CvtProcAsCore is off, this is always off
		...1		CVTCPUASALIASTOCORE	"X'10'" When CvtProcAsCore is on, the term "CPU" is treated as an alias to "CORE" for D M and CF system commands. When CvtProcAsCore is off, this is always off
379	(17B)	BITSTRING	1	CVTFLAG4	- FLAG BYTE
		1...		CVTP001I	"X'80'" If one, indicates that P001 support is installed
		.1..		CVTP001A	"X'40'" If one, indicates that the system is in P001_Active mode Ownership: IPL/NIP Serialization: SALLOC
		..1.		CVTZNALC	"X'20'" zNALC
		...1		CVTDCPA	"X'10'" Dynamic CPU Addition is enabled
		.... 1...		CVTTX	"X'08'" TX support is enabled
		.... 1...		CVTP002	"X'08'" P002 support is enabled
		.... .1..		CVTTXC	"X'04'" TXC support is enabled
		.... .1..		CVTP002C	"X'04'" P002C support is enabled
		.... ..1.		CVTRI	"X'02'" RI support is enabled
		1		CVTEDAT2	"X'01'" EDAT2 is enabled
380	(17C)	ADDRESS	4	CVTRT03	"V(IEAVRT03)" - ADDRESS OF SRB TIMING INITIALIZATION MODULE. (MDC406)
384	(180)	BITSTRING	8	CVTRS180	- RESERVED
392	(188)	ADDRESS	4	CVTEXSNR	"V(IEEVEXSN)" - ADDRESS OF EXCESSIVE SPIN NOTIFICATION ROUTINE (MDC386)
396	(18C)	BITSTRING	1	CVTEXSNL	- SERIALIZATION BYTE FOR EXCESSIVE SPIN NOTIFICATION ROUTINE (MDC387)
397	(18D)	ADDRESS	1	CVTSPVLK	- NUMBER OF TASKS WHICH HAVE TERMINATED WHILE OWNING SUPERVISOR LOCK WITHOUT OPERATOR HAVING YET BEEN NOTIFIED
398	(18E)	BITSTRING	1	CVTCTLFG	- SYSTEM CONTROL FLAGS
		1...		CVTTXTE	"X'80'" A Transactional Execution test environment is available. When only such a test environment exists, you should not use Transactional Execution in product code. In this test environment, the limited diagnostic data available upon such failures as program interrupts may well be inadequate to debug programs

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CVTTXJ	"X'80'" Not a programming interface
		...1		CVTDSTAT	"X'10'" - DEVSTAT OPTION IN EFFECT. DEVICE ADDRESS FOR 2319, 3330, 2314, 3330-1, 3340 CAN VARY ACROSS SYSTEMS. Not a programming interface. MDC189
		.... 1...		CVTDRMOD	"X'08'" - Set on when DRMODE=YES was specified.
		.... .1..		CVTNOMP	"X'04'" - MULTIPROCESSING CODE IS NOT IN THE SYSTEM. Not a programming interface. MDC176
		.... ..1.		CVTGTRCE	"X'02'" - GENERALIZED TRACE FACILITY (GTF) HAS SUPPRESSED SUPERVISOR TRACE. Not a programming interface. ICB446
		1		CVTSDTRC	"X'01'" - SVC DUMP HAS SUPPRESSED SUPERVISOR TRACE. Not a programming interface. ICB446
399	(18F)	SIGNED	1	CVTAPG	- DISPATCHING PRIORITY OF AUTOMATIC PRIORITY GROUP (APG) MDC152
404	(194)	ADDRESS	4	CVTRSCN	"V(IEATRSCN)" - ADDRESS OF ROUTINE TO SCAN TCB TREE
408	(198)	ADDRESS	4	CVTTAS	- ADDRESS OF ROUTINE TO TRANSFER ADDRESS SPACE YM2706
412	(19C)	ADDRESS	4	CVTTRCRM	- ADDRESS POINTER OF THE SYSTEM TRACE RESOURCE MANAGER. @(DCR816)
416	(1A0)	ADDRESS	4	CVTSHRVM	- LOWEST ADDRESS OF SHARED VIRTUAL STORAGE AREA. THIS ADDRESS WILL BE THE BEGINNING OF THE COMMON SERVICE AREA (CSA) (MDC324)
420	(1A4)	ADDRESS	4	CVT0VL01	"V(IEA0VL01)" - ENTRY POINT ADDRESS OF VALIDITY CHECK ROUTINE (IEA0VL01) USED TO COMPARE PROTECT KEY OF AN ADDRESS WITH TCB PROTECT KEY
424	(1A8)	ADDRESS	4	CVTPPGMX	"V(CSVEXIT)" - ADDRESS POINTER FOR MVS/370-XA.
428	(1AC)	BITSTRING	1	CVTGRSST	- GRS status. SERIALIZATION: None.
		1...		CVTE51GN	"X'80'" - When on, global resource contention data normally reported via ENF event code 51 to listeners on this system is unavailable or incomplete.
		.1..		CVTE51LN	"X'40'" - When on, local resource contention data normally reported via ENF event code 51 to listeners on this system is unavailable or incomplete.

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
429	(1AD)	BITSTRING	1	CVTRS1AD	- Reserved
430	(1AE)	BITSTRING	2	CVTBSM0F	- Return via reg 15, BSM 0,15
432	(1B0)	ADDRESS	4	CVTGVT	"V(GVT)" - ADDRESS OF THE GRS VECTOR TABLE (MDC414)
436	(1B4)	ADDRESS	4	CVTASCRF	- CREATED ASCB QUEUE HEADER (MDC337)
440	(1B8)	ADDRESS	4	CVTASCRL	- CREATED ASCB QUEUE TRAILER (MDC338)
444	(1BC)	ADDRESS	4	CVTPUTL	- ADDRESS OF IKJPUTL, TSO PUT LINE ROUTINE (MDC207) YM2225
448	(1C0)	ADDRESS	4	CVTSRBRT	"V(IEAPDSRT)" - DISPATCHER RETURN ADDRESS FOR SRB ROUTINES MDC130
452	(1C4)	ADDRESS	4	CVTOLT0A	"V(IFDOLT0A)" - BRANCH ENTRY TO OLTEP MEMORY TERMINATION RESOURCE MANAGER MDC129
456	(1C8)	ADDRESS	4	CVTSMFEX	"V(IEASMFEX)" - BRANCH ENTRY TO SYSTEM MANAGEMENT FACILITIES (SMF) EXCP COUNTING ROUTINE FOR VAM WINDOW INTERCEPT MDC133
460	(1CC)	ADDRESS	4	CVTCSPIE	- ENTRY POINT ADDRESS OF THE SUPERVISOR CHECKPOINT/RESTART ROUTER (IEAVCKRS). RESOLVED BY IEAVNP05 AFTER THE LPA HAS BEEN BUILT. PREVIOUSLY CONTAINED THE ENTRY POINT ADDRESS OF THE RTM CHECKPOINT/ RESTART EXIT ROUTINE (IEAVSPI).
464	(1D0)	ADDRESS	4	CVTPTGT	- ADDRESS OF IKJPTGT, TSO PUTGET ROUTINE (MDC208) YM2225
468	(1D4)	BITSTRING	1	CVTSIGPT	- SIGP TIMEOUT VALUE. OWNERSHIP: MACHINE CHECK HANDLER (MCH). SERIALIZATION: NONE (SET DURING IPL).
469	(1D5)	BITSTRING	1	CVTSPDMC	- SERVICE PROCESSOR DAMAGE MACHINE CHECK LOCK BYTE.
470	(1D6)	BITSTRING	1	CVTDSSAC	- DYNAMIC SUPPORT SYSTEM (DSS) ACTIVATED FLAG - USED BY RESTART FLIH. IF X'00', DSS NOT INITIALIZED. IF X'FF', DSS HAS BEEN INITIALIZED. MDC163
471	(1D7)	BITSTRING	1	CVTRS1D7	- RESERVED
472	(1D8)	ADDRESS	4	CVTSTCK	- ADDRESS OF IKJSTCK, TSO STACK ROUTINE (MDC209) YM2225
476	(1DC)	SIGNED	2	CVTMAXMP	- Maximum CPU address available for this IPL
478	(1DE)	BITSTRING	2	CVTBSM2	- RETURN VIA REG 2, BSM 0,2.
480	(1E0)	ADDRESS	4	CVTSCAN	- ADDRESS OF IKJSCAN, TSO SCAN ROUTINE (MDC210) YM2225
484	(1E4)	ADDRESS	4	CVTAUTHL	- POINTER TO AUTHORIZED LIBRARY TABLE. X'7FFFF001' IF DYNAMIC FORMAT APF TABLE. OWNED AND SET BY CONTENTS SUPERVISOR.
488	(1E8)	ADDRESS	4	CVTBLDCP	"V(IEAVBLDP)" - BRANCH ENTRY TO BUILD POOL MDC003

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
492	(1EC)	ADDRESS	4	CVTGETCL	"V(IEAVGTCL)" - BRANCH ENTRY TO GET CELL MDC004
496	(1F0)	ADDRESS	4	CVTFRECL	"V(IEAVFRCL)" - BRANCH ENTRY TO FREE CELL MDC005
500	(1F4)	ADDRESS	4	CVTDELCP	"V(IEAVDELP)" - BRANCH ENTRY TO DELETE POOL MDC006
504	(1F8)	ADDRESS	4	CVTCRMN	"V(CRBRANCH)" - BRANCH ENTRY TO SVC 120 (GETMAIN/FREEMAIN CRBRANCH) MDC007
508	(1FC)	ADDRESS	4	CVTCRAS	"V(IGVGCAS)" - POINTER DEFINED ADDRESS OF BRANCH ENTRY TO 'CREATE ADDRESS SPACE'
512	(200)	ADDRESS	4	CVTQSAS	"V(IGVQSPET)" - POINTER DEFINED ADDRESS OF BRANCH ENTRY TO TASK TERMINATION
516	(204)	ADDRESS	4	CVTFRAS	"V(IGVGFAS)" - POINTER DEFINED ENTRY TO TASK TERMINATION
520	(208)	ADDRESS	4	CVTS1EE	"V(IGC043BR)" - BRANCH ENTRY TO STAGE 1 EXIT EFFECTOR MDC011
524	(20C)	ADDRESS	4	CVTPARS	- ADDRESS OF IKJPARS, TSO PARSE ROUTINE (MDC211) YM2225
528	(210)	ADDRESS	4	CVTQUIS	"V(IEAVAR02)" - BRANCH ENTRY TO QUIESCE MDC013
532	(214)	ADDRESS	4	CVTSTXU	- BRANCH ENTRY TO ATTENTION EXIT EPILOGUE (MDC321)
536	(218)	ADDRESS	4	CVTOPTE	"V(IRARMI00)" - BRANCH ENTRY ADDRESS TO SYSEVENT MDC015
540	(21C)	ADDRESS	4	CVTSDRM	- BRANCH ENTRY ADDRESS OF THE RESOURCE MANAGER ROUTINE FOR SVC DUMP. THIS ROUTINE CAN BE INVOKED BY MEMORY TERMINATION
544	(220)	ADDRESS	4	CVTCSRT	"V(CSRTABLE)" - POINTER TO CALLABLE SERVICE REQUEST TABLE OWNERSHIP: CSR SERIALIZATION: NONE
548	(224)	ADDRESS	4	CVTAQTOP	"V(IEFAQTOP)" - POINTER TO THE ALLOCATION QUEUE LOCK AREA.
552	(228)	ADDRESS	4	CVTVVMDI	- CONSTANT USED BY PAGED LINK PACK AREA (LPA) DIRECTORY SEARCH ALGORITHM
556	(22C)	ADDRESS	4	CVTASVT	- POINTER TO ADDRESS SPACE VECTOR TABLE (ASVT)
560	(230)	ADDRESS	4	CVTGDA	- POINTER TO GLOBAL DATA AREA (GDA) IN SQA
564	(234)	ADDRESS	4	CVTASCBH	"V(IEAMASCB)" - POINTER TO HIGHEST PRIORITY ADDRESS SPACE CONTROL BLOCK (ASCB) ON THE ASCB DISPATCHING QUEUE (HEAD OF ASCB QUEUE) MDC027
568	(238)	ADDRESS	4	CVTASCBL	"V(IEAMASCB)" - POINTER TO LOWEST PRIORITY ASCB ON THE ASCB DISPATCHING QUEUE (MDC339)
572	(23C)	ADDRESS	4	CVTRTMCT	- POINTER TO RECOVERY/ TERMINATION CONTROL TABLE

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
576	(240)	ADDRESS	4	CVTSV60	"V(IEAVSTAG)" - BRANCH ENTRY ADDRESS FOR 24 OR 31 BIT ADDRESSING MODE USERS OF SVC 60. @(DCR854) ENTRY TO A GLUE ROUTINE.
580	(244)	ADDRESS	4	CVTSDMP	"V(IEAVTSGL)" - ADDRESS OF SVC DUMP BRANCH ENTRY POINT @(DCR664)
584	(248)	ADDRESS	4	CVTSCBP	"V(IEAVTSBP)" - ADDRESS OF SCB PURGE RESOURCE MANAGER.
588	(24C)	BITSTRING	4	CVTSDBF	- Address of 4K SQA buffer used by SVC Dump. High-order bit of this CVT word is used as lock to indicate buffer is in use. See related bit ASCBSDBF in macro IHAASCB.
592	(250)	ADDRESS	4	CVTRTMS	- ADDRESS OF SERVICABILITY LEVEL INDICATOR PROCESSING (SLIP) HEADER (MDC358)
596	(254)	ADDRESS	4	CVTTPIOS	- ADDRESS OF THE TELEPROCESSING I/O SUPERVISOR ROUTINE (TPIOS)
600	(258)	ADDRESS	4	CVTSIC	- BRANCH ADDRESS OF THE ROUTINE TO SCHEDULE SYSTEM INITIALIZED CANCEL
604	(25C)	ADDRESS	4	CVTOPCTP	"V(IRARMCNS)" - ADDRESS OF SYSTEM RESOURCES MANAGER (SRM) CONTROL TABLE MDC043
608	(260)	ADDRESS	4	CVTEXPRO	"V(IEAVEXPR)" - ADDRESS OF EXIT PROLOGUE/TYPE 1 EXIT MDC044
612	(264)	ADDRESS	4	CVTGSMQ	"V(IEAGSMQ)" - ADDRESS OF GLOBAL SERVICE MANAGER QUEUE MDC045
616	(268)	ADDRESS	4	CVTLSMQ	"V(IEALSMQ)" - ADDRESS OF LOCAL SERVICE MANAGER QUEUE MDC046
620	(26C)	BITSTRING	4	CVTRS26C	- RESERVED.
624	(270)	ADDRESS	4	CVTVWAIT	"V(IEAVWAIT)" - ADDRESS OF WAIT ROUTINE MDC048
628	(274)	ADDRESS	4	CVTPARRL	"V(CSVARMGR)" - ADDRESS OF PARTIALLY LOADED DELETE QUEUE.
632	(278)	ADDRESS	4	CVTAPFT	- ADDRESS OF AUTHORIZED PROGRAM FACILITY (APF) TABLE. INITIALIZED BY NIP.
636	(27C)	ADDRESS	4	CVTQCS01	"V(IEAQCS01)" - BRANCH ENTRY ADDRESS TO PROGRAM MANAGER USED BY ATTACH MDC051
640	(280)	SIGNED	4	CVTFQCB	- FORMERLY USED BY ENQ/DEQ. SHOULD ALWAYS BE ZERO. (MDC414)
644	(284)	SIGNED	4	CVTLQCB	- FORMERLY USED BY ENQ/DEQ. SHOULD ALWAYS BE ZERO. (MDC414)
648	(288)	ADDRESS	4	CVTRENQ	"V(IEAVENQ2)" - RESOURCE MANAGER ADDRESS FOR ENQ
652	(28C)	ADDRESS	4	CVTRSPIE	- RESOURCE MANAGER FOR SPIE. @(PCC1076)
656	(290)	ADDRESS	4	CVTLKRMA	"V(IEAVELRM)" - RESOURCE MANAGER ADDRESS FOR LOCK MANAGER.

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
660	(294)	ADDRESS	4	CVTCSD	- VIRTUAL ADDRESS OF COMMON SYSTEM DATA AREA (CSD). INITIALIZED BY NIP.
664	(298)	ADDRESS	4	CVTDQIQE	"V(IEADQIQE)" - RESOURCE MANAGER FOR EXIT EFFECTORS.
668	(29C)	ADDRESS	4	CVTRPOST	"V(IEARPOST)" - RESOURCE MANAGER FOR POST.
672	(2A0)	ADDRESS	4	CVT062R1	"V(IGC062R1)" - BRANCH ENTRY TO DETACH MDC060
676	(2A4)	ADDRESS	4	CVTVEAC0	"V(IEAVEAC0)" - ASCBCHAP BRANCH ENTRY MDC061
680	(2A8)	ADDRESS	4	CVTGLMN	"V(GLBRANCH)" - GLOBAL BRANCH ENTRY ADDRESS FOR GETMAIN/FREEMAIN MDC062
684	(2AC)	ADDRESS	4	CVTSPSA	"V(IEAVGWSA)" - POINTER TO GLOBAL WORK/SAVE AREA VECTOR TABLE (WSAG) MDC071
688	(2B0)	ADDRESS	4	CVTWSAL	"V(IEAVWSAL)" - ADDRESS OF TABLE OF LENGTHS OF LOCAL WORK/SAVE AREAS MDC072
692	(2B4)	ADDRESS	4	CVTWSAG	"V(IEAVWSAG)" - ADDRESS OF TABLE OF LENGTHS OF GLOBAL WORK/SAVE AREAS (MDC391)
696	(2B8)	ADDRESS	4	CVTWSAC	"V(IEAVWSAC)" - ADDRESS OF TABLE OF LENGTHS OF CPU WORK/SAVE AREAS MDC074
700	(2BC)	ADDRESS	4	CVTRECRQ	"V(IEAVTRGR)" - ADDRESS OF THE RECORDING REQUEST FACILITY (PART OF RTM1 - CALLED BY RTM2 AND RMS). @(DCR854)
704	(2C0)	ADDRESS	4	CVTASMVT	"V(ASMVT)" - POINTER TO AUXILIARY STORAGE MANAGEMENT VECTOR TABLE (AMVT) (MDC340)
708	(2C4)	ADDRESS	4	CVTIOBP	"V(IDA121CV)" - ADDRESS OF THE BLOCK PROCESSOR CVT (MDC079) YM0029
712	(2C8)	ADDRESS	4	CVTSPOST	"V(IEASPOST)" - POST RESOURCE MANAGER TERMINATION ROUTINE (RMTR) ENTRY POINT MDC085
716	(2CC)	SIGNED	4	CVTRSTWD(0)	- RESTART RESOURCE MANAGEMENT WORD. CONTAINS IDENTIFIER OF USER IF RESTART IS IN USE. OTHERWISE, ZERO.
716	(2CC)	SIGNED	2	CVTRSTCI	- CPU ID OF THE CPU HOLDING THE RESTART RESOURCE.
718	(2CE)	BITSTRING	2	CVTRSTRI	- IDENTIFIER OF OWNING ROUTINE
720	(2D0)	ADDRESS	4	CVTFETCH	"V(IEWMSEPT)" - ADDRESS OF ENTRY POINT FOR BASIC FETCH.
724	(2D4)	ADDRESS	4	CVT044R2	"V(IGC044R2)" - ADDRESS OF IGC044R2 IN CHAP SERVICE ROUTINE MDC197
728	(2D8)	ADDRESS	4	CVTPERFM	- ADDRESS OF THE PERFORMANCE WORK AREA. SET BY IGX00018. MDC205

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
732	(2DC)	ADDRESS	4	CVTDAIR	- ADDRESS OF IKJDAIR, TSO DYNAMIC ALLOCATION INTERFACE ROUTINE (MDC212) YM2225
736	(2E0)	ADDRESS	4	CVTEHDEF	- ADDRESS OF IKJEHDEF, TSO DEFAULT SERVICE ROUTINE. @(PCC0919)
740	(2E4)	ADDRESS	4	CVTEHCIR	- ADDRESS OF IKJEHCIR, TSO CATALOG INFORMATION ROUTINE. @(PCC0919)
744	(2E8)	ADDRESS	4	CVTSSAP	- ADDRESS OF SYSTEM SAVE AREA
748	(2EC)	ADDRESS	4	CVTAIDVT	- POINTER TO APPENDAGE ID VECTOR TABLE
752	(2F0)	ADDRESS	4	CVTIPCDS	"V(IEAVEDR1)" - BRANCH ENTRY FOR DIRECT SIGNAL SERVICE ROUTINE
756	(2F4)	ADDRESS	4	CVTIPCRI	"V(IEAVERI1)" - BRANCH ENTRY FOR REMOTE IMMEDIATE SIGNAL SERVICE ROUTINE
760	(2F8)	ADDRESS	4	CVTIPCRP	"V(IEAVERP1)" - BRANCH ENTRY FOR REMOTE PENDABLE SIGNAL SERVICE ROUTINE
764	(2FC)	ADDRESS	4	CVTPCCAT	- POINTER TO PHYSICAL CCA VECTOR TABLE
768	(300)	ADDRESS	4	CVTLCCAT	- POINTER TO LOGICAL CCA VECTOR TABLE
772	(304)	ADDRESS	4	CVTXSFT	"V(IEAVXSFT)" - ADDRESS OF SYSTEM FUNCTION TABLE CONTAINING LINKAGE INDEX (LX) AND ENTRY INDEX (EX) NUMBERS FOR SYSTEM ROUTINES. (MDC414)
776	(308)	ADDRESS	4	CVTXSTKS	"V(IEAVXSTS)" - ADDRESS OF PCLINK STACK (SAVE=YES) ROUTINE. (MDC395)
780	(30C)	ADDRESS	4	CVTXSTKN	"V(IEAVXSTN)" - ADDRESS OF PCLINK STACK (SAVE=NO) ROUTINE. (MDC395)
784	(310)	ADDRESS	4	CVTXUNSS	"V(IEAVXUNS)" - ADDRESS OF PCLINK UNSTACK (SAVE=YES) ROUTINE. (MDC395)
788	(314)	ADDRESS	4	CVTPWI	- ADDRESS OF THE WINDOW INTERCEPT ROUTINE (MDC104) YM4043
792	(318)	ADDRESS	4	CVTPVBP	- ADDRESS OF THE VIRTUAL BLOCK PROCESSOR (MDC105) YM4043
796	(31C)	ADDRESS	4	CVTMFCTL	- POINTER TO MEASUREMENT FACILITY CONTROL BLOCK MDC100
800	(320)	ADDRESS	4	CVTMFRTR	- IF MEASUREMENT FACILITY IS ACTIVE, CONTAINS ADDRESS OF MEASUREMENT FACILITY ROUTINE. OTHERWISE, ADDRESS OF CVTBRET. MDC101

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CVTMFACT	"X'80'" - IF ONE, I/O SUPERVISOR AND TIMER SECOND LEVEL INTERRUPT HANDLER HOOKS BRANCH TO MEASUREMENT FACILITY ROUTER. USED TO SET HIGH-ORDER BIT OF CVTMFRTR. MDC102
804	(324)	ADDRESS	4	CVTVPSIB	"V(IARPSIV)" - BRANCH ENTRY TO PAGE SERVICES
808	(328)	ADDRESS	4	CVTVSI	"V(IARXVIO)" - POINTER DEFINED, BRANCH ENTRY TO VAM SERVICES. @(DCR938)
812	(32C)	ADDRESS	4	CVTEXCL	"V(IECVEXCL)" - ADDRESS POINTER TO THE EXCP TERMINATION ROUTINE.
816	(330)	ADDRESS	4	CVTXUNSN	"V(IEAVXUNN)" - ADDRESS OF PCLINK UNSTACK (SAVE=NO) ROUTINE. (MDC395)
820	(334)	ADDRESS	4	CVTISNBR	"V(ISNBRNCH)" - ENTRY POINT ADDRESS OF DISABLED SERVICE PROCESSOR INTERFACE MODULE
824	(338)	ADDRESS	4	CVTXEXTR	"V(IEAVXEXT)" - ADDRESS OF PCLINK EXTRACT ROUTINE (MDC395)
828	(33C)	ADDRESS	4	CVTMSFRM	"V(IEAVMFRM)" - ADDRESS OF THE PROCESSOR CONTROLLER.
832	(340)	ADDRESS	4	CVTSCPIN	- ADDRESS OF IPL-TIME SCPINFO DATA BLOCK (ECVTSCPIN has address of "current"). Mapped by IHASCCB
836	(344)	ADDRESS	4	CVTWSMA	ADDRESS OF WAIT STATE MESSAGE AREA MUST BE DISPLAYABLE BY OPERATOR
840	(348)	ADDRESS	4	CVTRMBR	"V(RMBRANCH)" - ADDRESS OF REGMAIN BRANCH ENTRY. MDC123
844	(34C)	ADDRESS	4	CVTLFRM	"V(FMBRANCH)" - LIST FORMAT FREEMAIN BRANCH ENTRY MDC124 POINT. MDC124
848	(350)	ADDRESS	4	CVTGMBR	"V(GMBRANCH)" - LIST FORMAT GETMAIN BRANCH ENTRY MDC125 POINT. MDC125
852	(354)	ADDRESS	4	CVT0TC0A	- ADDRESS OF TASK CLOSE MODULE MDC128 IFG0TC0A. MDC128
856	(358)	SIGNED	4	CVTRLSTG	- SIZE OF ACTUAL REAL STORAGE ONLINE AT IPL TIME IN 'K'.
860	(35C)	ADDRESS	4	CVTSPFRR	"V(IEAVESPR)" - 'SUPER FRR' ADDRESS (ADDRESS OF FUNCTIONAL RECOVERY ROUTINE ESTABLISHED AT NIP0 TIME TO PROTECT SUPERVISOR CONTROL PROGRAM).
864	(360)	BITSTRING	4	CVTRS360	- RESERVED.
868	(364)	ADDRESS	4	CVTSVT	"V(IEAVESVT)" - ADDRESS POINTER FOR FETCH PROTECTED PSASVT.
872	(368)	ADDRESS	4	CVTIRECM	- ADDRESS OF INITIATOR RESOURCE MDC158 MANAGER. MDC158
876	(36C)	ADDRESS	4	CVTDARCM	- ADDRESS OF DEVICE ALLOCATION MDC159 RESOURCE MANAGER. MDC159

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
880	(370)	ADDRESS	4	CVT0PT02	"V(IEA0PT02)" - ADDRESS OF POST ENTRY POINT MDC160 IEA0PT02. MDC160
884	(374)	BITSTRING	4	CVTRS374	RESERVED
888	(378)	ADDRESS	4	CVTWTCB	"V(IEAWTCB)" - ADDRESS OF WAIT STATE TCB. MDC164
892	(37C)	ADDRESS	4	CVTVACR	- ACR/VARY CPU CHANNEL RECOVERY MDC178 ROUTINE ADDRESS. ADDRESS FILLED IN MDC178 BY VARY CPU PROCESSOR. MDC178
896	(380)	ADDRESS	4	CVTRECON	- VARY CPU SHUTDOWN ROUTINE ADDRESS. ADDRESS FILLED IN BY VARY CPU PROCESSOR.
900	(384)	ADDRESS	4	CVTGTFR8	"V(AHLVCCR8)" - GENERALIZED TRACE FACILITY (GTF) MDC180 CONTROL REGISTER 8 INITIALIZATION MDC180 ROUTINE ADDRESS. MDC180
904	(388)	ADDRESS	4	CVTVSTOP	"V(IEEVSTOP)" - ADDRESS OF VARY CPU STOP CPU MDC169 ROUTINE. MDC169
908	(38C)	ADDRESS	4	CVTVPSA	- ADDRESS OF COPY OF SYSGEN'ED PSA - MDC170 PLACED HERE BY NIP. MDC170
912	(390)	ADDRESS	4	CVTRMPTT	- ADDRESS OF ISTRAMA1, THE VTAM RESOURCE MANAGER FOR NORMAL AND ABNORMAL TASK TERMINATION. (MDC322)
916	(394)	ADDRESS	4	CVTRMPMT	- ADDRESS OF ISTRAMA2, THE VTAM RESOURCE MANAGER FOR NORMAL AND ABNORMAL MEMORY TERMINATION. (MDC323)
920	(398)	ADDRESS	4	CVTEXP1	"V(IEAVEXP1)" - ADDRESS OF EXIT PROLOGUE WHICH MDC173 RETURNS TO THE DISPATCHER. MDC173
924	(39C)	ADDRESS	4	CVTCSDRL	- REAL ADDRESS OF COMMON SYSTEM DATA MDC174 AREA (CSD). INITIALIZED BY NIP. MDC174
928	(3A0)	ADDRESS	4	CVTSSRB	"V(IGC07903)" - STATUS STOP SRB ENTRY. MDC175
932	(3A4)	BITSTRING	4	CVTRS3A4	- RESERVED
936	(3A8)	ADDRESS	4	CVTQV1	"V(IEAVEQV1)" - ADDRESS OF QUEUE VERIFICATION FOR MDC181 SINGLE THREADED QUEUES WITH MDC181 HEADERS ONLY. MDC181
940	(3AC)	ADDRESS	4	CVTQV2	"V(IEAVEQV2)" - ADDRESS OF QUEUE VERIFICATION FOR MDC182 SINGLE THREADED QUEUES WITH MDC182 HEADER AND TRAILER. MDC182
944	(3B0)	ADDRESS	4	CVTQV3	"V(IEAVEQV3)" - ADDRESS OF QUEUE VERIFICATION FOR MDC183 DOUBLE THREADED QUEUES. MDC183
948	(3B4)	ADDRESS	4	CVTGSDA	"V(IEAVGSDA)" - ADDRESS OF GLOBAL SYSTEM DUPLEX AREA.

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CVTGSDAB	"X'80'" - IF HIGH-ORDER BIT IS ONE, THERE IS MDC185 A VALID VALUE IN FOLLOWING 31 BITS. MDC185
952	(3B8)	ADDRESS	4	CVTADV	"V(IEAVEADV)" - ADDRESS OF ADDRESS VERIFICATION MDC186 ROUTINE. MDC186
956	(3BC)	ADDRESS	4	CVTTPIO	"V(IGC124)" - ADDRESS OF VTAM TPIO (SVC 124) MDC193 ROUTINE. MDC193
960	(3C0)	BITSTRING	4	CVTRS3C0	- RESERVED
964	(3C4)	ADDRESS	4	CVTEVENT	"V(IEAVEVT2)" - BRANCH ENTRY ADDRESS TO EVENTS (FAST MULTIPLE WAIT ROUTINE). @(DCR738)
968	(3C8)	ADDRESS	4	CVTSSCR	- ADDRESS OF STORAGE SYSTEM CONTROLLER RECOVERY MANAGER CLEANUP ROUTINE (SSC RMCR). (MDC319)
972	(3CC)	ADDRESS	4	CVTCBBR	"V(CBBRANCH)" - BRANCH ENTRY ADDRESS TO GETMAIN/FREEMAIN. (MDC325)
976	(3D0)	ADDRESS	4	CVTEFF02	- ADDRESS OF IKJEFF02, TSO MESSAGE ISSUER SERVICE ROUTINE. (MDC326)
980	(3D4)	ADDRESS	4	CVTLSCH	"V(IEAVESC1)" - ADDRESS OF LOCAL SCHEDULE. (MDC364)
984	(3D8)	ADDRESS	4	CVTCDEQ	- ADDRESS OF PROGRAM MANAGER AVAILBLE CDE QUEUE CONTROL AREA. (MDC369)
988	(3DC)	ADDRESS	4	CVTHSM	- POINTER TO HIERARCHICAL STORAGE MANAGER (HSM) QUEUE CONTROL TABLE. (MDC375)
992	(3E0)	ADDRESS	4	CVTRAC	- ADDRESS OF ACCESS CONTROL CVT. (MDC320)
996	(3E4)	ADDRESS	4	CVTCGK	"V(IARXKEY)" - ADDRESS OF ROUTINE USED TO CHANGE THE KEY OF VIRTUAL PAGES. @(PCC0529)
1000	(3E8)	ADDRESS	4	CVTSRM	"V(IRARMEPS)" - ADDRESS OF ENTRY TABLE FOR SRM, ENTRY TABLE IS INITIALIZED BY NIP10. (MDC367)
1004	(3EC)	ADDRESS	4	CVT0PT0E	"V(IEA0PT0E)" - ENTRY POINT TO IDENTIFY POST EXIT ROUTINES. (MDC334)
1008	(3F0)	ADDRESS	4	CVT0PT03	"V(IEA0PT03)" - POST REINVOCATION ENTRY POINT FROM POST EXIT ROUTINES. (MDC335)
1012	(3F4)	ADDRESS	4	CVTTCASP	- POINTER TO THE TSO/VTAM TERMINAL CONTROL ADDRESS SPACE (TCAS) TABLE. (MDC336)
1016	(3F8)	ADDRESS	4	CVTCTTVT	- CTT VT
1020	(3FC)	ADDRESS	4	CVTJTERM	"V(ILRJTERM)" - POINTER DEFINED ADDRESS OF AUXILIARY STORAGE MANAGEMENT JOB TERMINATION RESOURCE MANAGER.

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1024	(400)	ADDRESS	4	CVTRSUME	"V(IEAVRSUH)" - ADDRESS OF RESUME FUNCTION. (MDC414)
1028	(404)	ADDRESS	4	CVTTCTL	"V(IEAVTCTL)" - ADDRESS OF TRANSFER CONTROL (TCTL) FUNCTION. (MDC345)
1032	(408)	ADDRESS	4	CVTRMT	- ADDRESS OF RESOURCE MANAGER CONTROL STRUCTURE (RMT) OWNERSHIP: RTM. SERIALIZATION: NONE.
1036	(40C)	ADDRESS	4	CVTT6SVC	"V(IEAVET6E)" - ENTRY POINT ADDRESS FOR TYPE 6 SVC EXIT FUNCTION. (MDC347)
1040	(410)	ADDRESS	4	CVTSUSP	"V(IEAVSPND)" - ADDRESS OF SUSPEND ROUTINE. (MDC348)
1044	(414)	ADDRESS	4	CVTIHASU	"V(IEAIHASU)" - ADDRESS OF BIT STRING. (MDC355)
1048	(418)	ADDRESS	4	CVTSFV	"V(IEAVTSFV)" - ADDRESS OF SETFRR ROUTINE ABOVE 16M
1052	(41C)	ADDRESS	4	CVTIDEVN	"V(IOSVDEVN)" - ADDRESS OF DEVICE NUMBER CONVERSION ROUTINE OWNERSHIP: IOS. SERIALIZATION: NONE.
1056	(420)	ADDRESS	4	CVTSMF83	- ADDRESS OF BRANCH ENTRY TO SMF SVC 83. (MDC378)
1060	(424)	ADDRESS	4	CVTSMFSP	"V(IEASMFSP)" - ADDRESS OF SMF SUSPEND HANDLER.
1064	(428)	ADDRESS	4	CVTMSFCB	- ADDRESS OF MAINTENANCE AND SERVICE FACILITY CONTROL BLOCK (MSFCB). (MDC396)
1068	(42C)	ADDRESS	4	CVTHID	"V(IOSVHID)" - ADDRESS OF SCP HOST ID. @(DCR819)
1072	(430)	ADDRESS	4	CVTPSXM	"V(IARPSXM)" - ADDRESS OF CROSS MEMORY PAGE FIX AND PAGE FREE. (MDC414)
1076	(434)	ADDRESS	4	CVTUCBSC	"V(IOSVSUCB)" - ADDRESS OF UCB SCAN SERVICE. @(DCR377)
1080	(438)	ADDRESS	4	CVTTPUR	- DDR QUEUE OF TAPE UNIT-RECORD SWAP REQUESTS.
1084	(43C)	ADDRESS	4	CVTDPUR	- DDR QUEUE OF DASD SWAP REQUESTS.
1088	(440)	ADDRESS	4	CVTTRPOS	- DDR QUEUE OF TAPES TO BE REPRESENTED.
1092	(444)	ADDRESS	4	CVTRS444	- Reserved, must always be 0. Was CVTRESTX, VIRTUAL ADDRESS OF TEXT TO BE PLACED ON CONSOLE FRAME.
1096	(448)	SIGNED	2	CVTXCPCT	- MAXIMUM EXCP COUNT PER ADDRESS SPACE.
1098	(44A)	SIGNED	2	CVTCALL	- A BASSM 14,15 INSTRUCTION. POINTER USED VIA AN EXECUTE INSTRUCTION TO BRANCH TO USERS EXITS
1100	(44C)	ADDRESS	4	CVTVFIND	"V(CSVVFIND)" - THE POINTER TO VIRTUAL FETCH BUILD AND FIND ROUTINE.

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1104	(450)	ADDRESS	4	CVTVFGET	"V(CSVVFGET)" - THE POINTER TO VIRTUAL FETCH GET ROUTINE.
1108	(454)	ADDRESS	4	CVTVFMEM	RESERVED. THIS FIELD IS NO LONGER USED. ANYONE USING IT AS A POINTER WILL PROGRAM CHECK
1112	(458)	ADDRESS	4	CVTVFCB	- THE POINTER TO VIRTUAL FETCH INTERNAL CONTROL BLOCK IN CSA, INITIALIZED TO ZERO AND SET TO NON-ZERO VALUE BY VIRTUAL FETCH INITIALIZATION ROUTINE.
1116	(45C)	ADDRESS	4	CVTPGSER	"V(IARPIBR)" - POINTER DEFINED ADDRESS OF ENTRY TO PAGE SERVICES (FIX,FREE,LOAD, OUT,RLSE,ANYWHER).
1120	(460)	ADDRESS	4	CVTTSKI	"V(IGVSTSKI)" - POINTER DEFINED ADDRESS OF TASK MANAGEMENT/STORAGE MANAGEMENT INTERFACE ROUTINE.
1124	(464)	ADDRESS	4	CVTCPGUB	"V(IGVCPGUB)" - POINTER DEFINED ADDRESS OF CPOOL GET UNCONDITIONAL BRANCH ENTRY ROUTINE.
1128	(468)	ADDRESS	4	CVTCPGUP	"V(IGVCPGUP)" - POINTER DEFINED ADDRESS OF CPOOL GET UNCONDITIONAL PC-ENTRY ROUTINE.
1132	(46C)	ADDRESS	4	CVTCPGTC	"V(IGVCPGTC)" - POINTER DEFINED ADDRESS OF GET UNCONDITIONAL ROUTINE.
1136	(470)	ADDRESS	4	CVTCPFRE	"V(IGVCPFRE)" - POINTER DEFINED ADDRESS OF CPOOL FREE ROUTINE.
1140	(474)	ADDRESS	4	CVTSLIST	"V(IGVSLIST)" - POINTER DEFINED ADDRESS OF VSM LIST SERVICE.
1144	(478)	ADDRESS	4	CVTSREGN	"V(IGVSREGN)" - POINTER DEFINED ADDRESS OF VSM REGION SIZE.
1148	(47C)	ADDRESS	4	CVTSLOC	"V(IGVSLOC)" - POINTER DEFINED ADDRESS OF VSM LOCATOR SERVICE.
1152	(480)	ADDRESS	4	CVTCPBDB	"V(IGVCPBDB)" - POINTER DEFINED ADDRESS OF CPOOL BUILD ENTRY ROUTINE.
1156	(484)	ADDRESS	4	CVTCPDLB	"V(IGVCPDLB)" - POINTER DEFINED ADDRESS OF CPOOL DELETE BRANCH ENTRY ROUTINE.
1160	(488)	ADDRESS	4	CVTDOFFS	- STARTING REAL ADDRESS OF DAT-OFF NUCLEUS.
1164	(48C)	ADDRESS	4	CVTDOFFE	- ENDING REAL ADDRESS OF DAT-OFF NUCLEUS.
1168	(490)	ADDRESS	4	CVTRCEP	"V(IARMRRCE)" - ADDRESS OF THE RSM CONTROL AND ENUMERATION AREA.
1172	(494)	ADDRESS	4	CVTCPGUS	"V(IGVCPGUS)" - ADDRESS OF CPOOL GET UNCONDITIONAL PC-ENTRY ROUTINE WHICH SAVES SECONDARY ASID STATUS. @(DCR722)

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1176	(498)	ADDRESS	4	CVTGRRGN	"V(IGVGRRGN)" - POINTER DEFINED ADDRESS OF GET REAL REGION ROUTINE.
1180	(49C)	ADDRESS	4	CVTGVRGN	"V(IGVGVRGN)" - POINTER DEFINED ADDRESS OF GET VIRTUAL REGION ROUTINE.
1184	(4A0)	BITSTRING	1	CVTIONLV	- DEFAULT VALUE OF IOS LEVEL. @(PCC0461)
1185	(4A1)	BITSTRING	3	CVTRS4A1	- RESERVED
EXIT CODE FOR NORMAL AND/OR ABNORMAL END APPENDAGES FOR I/O DRIVERS.					
1190	(4A6)	BITSTRING	2		- RETURN VIA A BSM.
1192	(4A8)	BITSTRING	4	CVTFUNC	- Reserved for solution/offering use. Must be zero for full function MVS.
		1...		CVTSOLN	"X'80'" - If high order bit is on, this is not a full function MVS system, but rather, a solution/offering.
1196	(4AC)	ADDRESS	4	CVTSMEXT	- ADDRESS OF STORAGE MAP EXTENSION.
1200	(4B0)	ADDRESS	4	CVTNUCMP	- ADDRESS OF NUCLEUS MAP.
1204	(4B4)	BITSTRING	1	CVTXAFL	- FLAG BYTE FOR MVS/XA PROCESSING. @(PCC3762)
		1...		CVTCSRIM	"X'80'" - EXPLICIT LOAD PROCESSING REQUIRED FOR CONTENTS SUPERVISOR RIM.
1205	(4B5)	BITSTRING	3	CVTRS4B5	- RESERVED
1208	(4B8)	ADDRESS	4	CVTVTAM	- ADDRESS OF VTAM COMMAND PROCESSOR (ISTCFF3D). @(DCR642)
1212	(4BC)	ADDRESS	4	CVTSPIP	- ADDRESS OF RTM INTERFACE TO RETURN PROGRAM MASK TO CONTENTS SUPERVISOR,(ON SPIE/ESPIE).
1216	(4C0)	ADDRESS	4	CVTCKRAS(0)	- OLD NAME FOR CVTDFA FIELD.
1216	(4C0)	ADDRESS	4	CVTDFA	"V(DFAIDTAB)" - ADDRESS OF DFP ID TABLE, MAPPED BY THE DFA. OWNERSHIP: DFP.
1220	(4C4)	ADDRESS	4	CVTNVT0	"V(IEAVNVT0)" - ADDRESS OF DATA IN DAT-ON NUCLEUS
1224	(4C8)	ADDRESS	4	CVTCSOMF	- OWNER OF CHANNEL MEASUREMENT FACILITY. @(DCR1020)
1228	(4CC)	ADDRESS	4	CVTCSOAL	- OWNER OF ADDRESS LIMIT FACILITY.
1232	(4D0)	ADDRESS	4	CVTICHPT	- ADDRESS OF THE INSTALLED CHANNEL PATH TABLE. @(DCR719)
1236	(4D4)	ADDRESS	4	CVTCSOCR	- CHANNEL SUBSYSTEM OWNER - CHANNEL PATH RESET FACILITY. @(DCR719)
1240	(4D8)	ADDRESS	4	CVTCSOCS	- CHANNEL SUBSYSTEM OWNER - CHANNEL PATH STATUS FACILITY. @(DCR719)
1244	(4DC)	ADDRESS	4	CVTLLTA	- LINK LIST TABLE ADDRESS. @(DCR719)
1248	(4E0)	ADDRESS	4	CVTDCQA	- ADDRESS OF DEVICE CLASS QUEUE

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1252	(4E4)	ADDRESS	4	CVTUCBA	- ADDRESS OF THE FIRST UCB IN THE CHAIN OF UCB'S. @(DCR719)
1256	(4E8)	ADDRESS	4	CVTVESTU	"V(IEAVESTU)" - ADDRESS OF THE ENTRY POINT OF THE SVC UPDATE ROUTINE. @(DCR825)
1260	(4EC)	ADDRESS	4	CVTNUCLU	"V(IEAVENLU)" - ADDRESS TO SUPPORT THE NUCLEUS MAP LOOKUP ROUTINE. @(DCR892)
1264	(4F0)	BITSTRING	16	CVTOSLVL(0)	SYSTEM LEVEL INDICATORS The presence of certain hardware functions is indicated within the SCCB (mapped by macro IHASCCB, pointed to by CVTSCPIN and/or ECVTSCPIN). The presence of other hardware functions can be found within CVT field CVTFLAGS2.
1264	(4F0)	BITSTRING	1	CVTOSLV0	BYTE 0 OF CVTOSLVL
		1...		CVTH3310	"X'80'" HBB3310 FUNCTIONS ARE PRESENT
		1...		CVTESA	"X'80'" ESA/370 IS SUPPORTED
		1...		CVTXAX	"X'80'" ESA/370 IS SUPPORTED (XAX - OLD NAME)
		.1..		CVTH4420	"X'40'" HBB4420 FUNCTIONS ARE PRESENT.
		..1.		CVTJ3313	"X'20'" JBB3313 FUNCTIONS ARE PRESENT
		...1		CVTJ3311	"X'10'" JBB3311 FUNCTIONS ARE PRESENT
		...1		CVTHIPER	"X'10'" HIPERSPACES ARE SUPPORTED
		.... 1...		CVTH4410	"X'08'" HBB4410 FUNCTIONS ARE PRESENT.
		.... 1...		CVTLKR	"X'08'" SPIN LOCK RESTRUCTURE INDICATOR.
		.... 1...		CVTUCBSV	"X'08'" UCB SERVICES INSTALLED.
		.... .1..		CVTCADS	"X'04'" SCOPE=COMMON DATA SPACES SUPPORTED
		.... ..1.		CVTCRPTL	"X'02'" ENCRYPTION ASYMMETRIC FEATURE IS SUPPORTED
		1		CVTJ4422	"X'01'" JBB4422 FUNCTIONS ARE PRESENT
1265	(4F1)	BITSTRING	1	CVTOSLV1	BYTE 1 OF CVTOSLVL
		1...		CVTH4430	"X'80'" HBB4430 FUNCTIONS ARE PRESENT
		1...		CVTDYAPF	"X'80'" DYNAMIC APF, THROUGH CSVAPF, PRESENT
		.1..		CVTWLM	"X'40'" WORKLOAD MANAGER IS INSTALLED
		..1.		CVTH5510	"X'20'" HBB5510 FUNCTIONS ARE PRESENT
		..1.		CVTDYNEX	"X'20'" CSVDYNEX FOR DYNAMIC EXITS IS PRESENT

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		CVTH5520	"X'10'" HBB5520 FUNCTIONS ARE PRESENT
		...1		CVTENCLV	"X'10'" ENCLAVES FUNCTION IS PRESENT
		.... 1...		CVTJ5522	"X'08'" JBB5522 FUNCTIONS ARE PRESENT
		.... .1..		CVTH5530	"X'04'" HBB6603 FUNCTIONS ARE PRESENT
		.... .1..		CVTH6603	"X'04'" HBB6603 FUNCTIONS ARE PRESENT
		.... .1..		CVTOS390_010300	"X'04'" OS/390 R3
		.... .1..		CVTOS390_R3	"X'04'" OS/390 R3
		.... .1..		CVTDYNL	"X'04'" Dynamic LNKLST, via CSVDYNL, is present
		.... ..1.		CVTH6601	"X'02'" OS/390 release 1
		.... ..1.		CVTOS390	"X'02'" OS/390 release 1
		.... ..1.		CVTOS390_010100	"X'02'" OS/390 R1
		.... ..1.		CVTOS390_R1	"X'02'" OS/390 R1
		.... ..1.		CVTPRDED	"X'02'" Product enable/disable (IFAEDxxx) is present
		1		CVTJ6602	"X'01'" OS/390 release 2
		1		CVTOS390_010200	"X'01'" OS/390 R2
		1		CVTOS390_R2	"X'01'" OS/390 R2
		1		CVTPARMC	"X'01'" Logical Parmlib Service is available via IEFPRMLB.
1266	(4F2)	BITSTRING	1	CVTOSLV2	BYTE 2 OF CVTOSLVL
		1...		CVTOS390_010400	"X'80'" OS/390 R4
		1...		CVTOS390_020400	"X'80'" OS/390 R4
		1...		CVTOS390_R4	"X'80'" OS/390 R4
		1...		CVTJ6604	"X'80'" OS/390 R4
		1...		CVTDYLPA	"X'80'" Dynamic LPA (CSVDYLPA) available
		1...		CVTRTLS	"X'80'" Runtime Library Services (CSVRTLS)
		.1..		CVTOS390_020500	"X'40'" OS/390 R5
		.1..		CVTOS390_R5	"X'40'" OS/390 R5
		.1..		CVTH6605	"X'40'" OS/390 R5
		..1.		CVTOS390_020600	"X'20'" OS/390 R6
		..1.		CVTOS390_R6	"X'20'" OS/390 R6
		..1.		CVTH6606	"X'20'" OS/390 R6
		...1		CVTBFP	"X'10'" Binary Floating Point support (simulated unless CVTBFPH is on)
		.... 1...		CVTOS390_020700	"X'08'" OS/390 R7
		.... 1...		CVTOS390_R7	"X'08'" OS/390 R7
		.... 1...		CVTJ6607	"X'08'" OS/390 R7
		.... .1..		CVTOS390_020800	"X'04'" OS/390 R8
		.... .1..		CVTOS390_R8	"X'04'" OS/390 R8
		.... .1..		CVTH6608	"X'04'" OS/390 R8
		.... ..1.		CVTOS390_020900	"X'02'" OS/390 R9
		.... ..1.		CVTOS390_R9	"X'02'" OS/390 R9
		.... ..1.		CVTJ6609	"X'02'" OS/390 R9
		.... ..1.		CVTH6609	"X'02'" OS/390 R9

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		CVTOS390_021000	"X'01'" OS/390 R10
		1		CVTOS390_R10	"X'01'" OS/390 R10
		1		CVTH7703	"X'01'" OS/390 R10
1267	(4F3)	BITSTRING	1	CVTOSLV3	BYTE 3 OF CVTOSLVL
		1...		CVTPAUSE	"X'80'" Pause/Release services are present
		.1..		CVTPAUS2	"X'40'" IEAVAPE2 and related services, and Ownership options.
		..1.		CVTZOS	"X'20'" z/OS V1R1
		..1.		CVTZOS_010100	"X'20'" z/OS V1R1
		..1.		CVTZOS_V1R1	"X'20'" z/OS V1R1
		..1.		CVTJ7713	"X'20'" JBB7713
		..1.		CVTLPARC	"X'20'" LPAR Clustering is present.
		...1		CVTZOS_010200	"X'10'" z/OS V1R2
		...1		CVTZOS_V1R2	"X'10'" z/OS V1R2
		...1		CVTH7705	"X'10'" HBB7705
		...1		CVTV64	"X'10'" 64-bit virtual services are present. You should ensure FLCARCH (in IHAPSA) is non-zero before using
		.... 1...		CVTZOS_010300	"X'08'" z/OS V1R3
		.... 1...		CVTZOS_V1R3	"X'08'" z/OS V1R3
		.... 1...		CVTH7706	"X'08'" HBB7706
		.... .1..		CVTZOS_010400	"X'04'" z/OS V1R4
		.... .1..		CVTZOS_V1R4	"X'04'" z/OS V1R4
		.... .1..		CVTH7707	"X'04'" HBB7707
		.... ..1.		CVTZOS_010500	"X'02'" z/OS V1R5
		.... ..1.		CVTZOS_V1R5	"X'02'" z/OS V1R5
		.... ..1.		CVTH7708	"X'02'" HBB7708
		1		CVTZOS_010600	"X'01'" z/OS V1R6
		1		CVTZOS_V1R6	"X'01'" z/OS V1R6
		1		CVTH7709	"X'01'" HBB7709
1268	(4F4)	BITSTRING	1	CVTOSLV4	BYTE 4 OF CVTOSLVL
		1...		CVTCSRSI	"X'80'" CSRSI service is available
		.1..		CVTUNICS	"X'40'" Unicode callable services available
		..1.		CVTCSRUN	"X'20'" CSRUNIC callable service available
		...1		CVTILM	"X'10'" IBM License Manager functions are present
		.... 1...		CVTALRS	"X'08'" ASN-and-LX-Reuse architecture is supported. It might not be enabled. See CVTALR.
		.... .1..		CVTTOCP	"X'04'" TIMEUSED TIME_ON_CP
		.... ..1.		CVTZIIP	"X'02'" zIIP support is present
		.... ..1.		CVTSUP	"X'02'" zIIP support is present
		1		CVTIFAR	"X'01'" IFA routine is present
1269	(4F5)	BITSTRING	1	CVTOSLV5	BYTE 5 OF CVTOSLVL
		1...		CVTZOSE	"X'80'" z/OS.e
		1...		CVTZOSAS	"X'80'" z/OS.e

Table 665. Structure CVTFIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CVTPUMA	"X'80'" z/OS.e
		.1..		CVTZOS_010700	"X'40'" z/OS V1R7
		.1..		CVTZOS_V1R7	"X'40'" z/OS V1R7
		.1..		CVTH7720	"X'40'" HBB7720
		..1.		CVTZOS_010800	"X'20'" z/OS V1R8
		..1.		CVTZOS_V1R8	"X'20'" z/OS V1R8
		..1.		CVTH7730	"X'20'" HBB7730
		...1		CVTZOS_010900	"X'10'" z/OS V1R9
		...1		CVTZOS_V1R9	"X'10'" z/OS V1R9
		...1		CVTH7740	"X'10'" HBB7740
		.... 1...		CVTZOS_011000	"X'08'" z/OS V1R10
		.... 1...		CVTZOS_V1R10	"X'08'" z/OS V1R10
		.... 1...		CVTH7750	"X'08'" HBB7750
		.... .1..		CVTZOS_011100	"X'04'" z/OS V1R11
		.... .1..		CVTZOS_V1R11	"X'04'" z/OS V1R11
		.... .1..		CVT_G64CPU_INFRASTRUCTURE	"X'04'" G64CPU Infrastructure present
		.... .1..		CVTH7760	"X'04'" HBB7760
		.... ..1.		CVTZOS_011200	"X'02'" z/OS V1R12
		.... ..1.		CVTZOS_V1R12	"X'02'" z/OS V1R12
		.... ..1.		CVTH7770	"X'02'" HBB7770
		1		CVTZOS_011300	"X'01'" z/OS V1R13
		1		CVTZOS_V1R13	"X'01'" z/OS V1R13
		1		CVTH7780	"X'01'" HBB7780
1270	(4F6)	BITSTRING	1	CVTOSLV6	BYTE 6 OF CVTOSLVL
		1...		CVTZOS_020100	"X'80'" z/OS V2R1
		1...		CVTZOS_V2R1	"X'80'" z/OS V2R1
		1...		CVTH7790	"X'80'" HBB7790
		.1..		CVTZOS_020200	"X'40'" z/OS V2R2
		.1..		CVTZOS_V2R2	"X'40'" z/OS V2R2
		.1..		CVTPAUSEMULTIPLE	"X'40'" Pause Multiple
		.1..		CVTH77A0	"X'40'" HBB77A0
		..1.		CVTJ778H	"X'20'" JBB778H
		..1.		CVTZOS_V1R13_JBB778H	"X'20'" JBB778H
		..1.		CVTZOS_011300_JBB778H	"X'20'" JBB778H
1271	(4F7)	BITSTRING	1	CVTOSLV7	BYTE 7 OF CVTOSLVL
1272	(4F8)	BITSTRING	1	CVTOSLV8	BYTE 8 OF CVTOSLVL
		1...		CVTPAUS3	"X'80'" IEA4xxxx
		.1..		CVTPAUS4	"X'40'" Pause with checkpoint-OK
		..1.		CVTECT1	"X'20'" TIMEUSED ECT=YES with TIME_ON_CP, OFFLOAD_TIME, OFFLOAD_ON_CP
		...1		CVTOOCP	"X'10'" TIMEUSED with TIME_ON_CP and OFFLOAD_ON_CP
		.... 1...		CVTIEFOPZ	"X'08'" IEFOPZ
1273	(4F9)	BITSTRING	1	CVTOSLV9	BYTE 9 OF CVTOSLVL
1274	(4FA)	BITSTRING	1	CVTOSLVA	BYTE 10 OF CVTOSLVL
1275	(4FB)	BITSTRING	1	CVTOSLVB	BYTE 11 OF CVTOSLVL
1276	(4FC)	BITSTRING	1	CVTOSLVC	BYTE 12 OF CVTOSLVL
1277	(4FD)	BITSTRING	1	CVTOSLVD	BYTE 13 OF CVTOSLVL
1278	(4FE)	BITSTRING	1	CVTOSLVE	BYTE 14 OF CVTOSLVL
1279	(4FF)	BITSTRING	1	CVTOSLVF	BYTE 15 OF CVTOSLVL

Table 666. Structure CVTVSTGX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CVTVSTGX	
0	(0)	SIGNED	4	CVTBLDLS	- RESERVED - WAS STARTING ADDRESS OF BLDL LIST. MUST BE ZERO NOW.
4	(4)	SIGNED	4	CVTBLDLE	- RESERVED - WAS ENDING ADDRESS OF BLDL LIST. MUST BE ZERO NOW.
8	(8)	ADDRESS	4	CVTMLPAS	- STARTING VIRTUAL ADDRESS OF MLPA.
12	(C)	ADDRESS	4	CVTMLPAE	- ENDING VIRTUAL ADDRESS OF MLPA.
16	(10)	ADDRESS	4	CVTFLPAS	- STARTING VIRTUAL ADDRESS OF FLPA.
20	(14)	ADDRESS	4	CVTFLPAE	- ENDING VIRTUAL ADDRESS OF FLPA.
24	(18)	ADDRESS	4	CVTPLPAS	- STARTING VIRTUAL ADDRESS OF PLPA.
28	(1C)	ADDRESS	4	CVTPLPAE	- ENDING VIRTUAL ADDRESS OF PLPA.
32	(20)	ADDRESS	4	CVTRWNS	- STARTING VIRTUAL ADDRESS OF READ-WRITE NUCLEUS. (MDCXXX)
36	(24)	ADDRESS	4	CVTRWNE	- ENDING VIRTUAL ADDRESS OF READ-WRITE NUCLEUS. (MDCXXX)
40	(28)	ADDRESS	4	CVTRONS	- STARTING VIRTUAL ADDRESS OF READ-ONLY NUCLEUS. (MDCXXX)
44	(2C)	ADDRESS	4	CVTRONE	- ENDING VIRTUAL ADDRESS OF READ-ONLY NUCLEUS. (MDCXXX)
48	(30)	ADDRESS	4	CVTERWNS	- STARTING EXTENDED ADDRESS READ/WRITE NUCLEUS. @(DCR658)
52	(34)	ADDRESS	4	CVTERWNE	- ENDING EXTENDED ADDRESS READ/WRITE NUCLEUS. @(DCR658)
56	(38)	ADDRESS	4	CVTEPLPS	- STARTING VIRTUAL ADDRESS OF EXTENDED PLPA.
60	(3C)	ADDRESS	4	CVTEPLPE	- ENDING VIRTUAL ADDRESS OF EXTENDED PLPA.
64	(40)	ADDRESS	4	CVTEFLPS	- STARTING VIRTUAL ADDRESS OF EXTENDED FLPA.
68	(44)	ADDRESS	4	CVTEFLPE	- ENDING VIRTUAL ADDRESS OF EXTENDED FLPA.
72	(48)	ADDRESS	4	CVTEMLPS	- STARTING VIRTUAL ADDRESS OF EXTENDED MLPA.
76	(4C)	ADDRESS	4	CVTEMLPE	- ENDING VIRTUAL ADDRESS OF EXTENDED MLPA.

Table 667. Structure CVTXTNT1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CVTXTNT1	
0	(0)	ADDRESS	4	CVTFACHN	- ADDRESS OF CHAIN OF DCB FIELD AREAS (ISAM). ICB421
4	(4)	BITSTRING	8	CVT1R004	RESERVED

Table 668. Structure CVTXTNT2

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CVTXTNT2	
0	(0)	BITSTRING	4	CVT2R000	RESERVED
4	(4)	CHARACTER	1	CVTNUCLS	- IDENTIFICATION OF THE NUCLEUS MEMBER NAME
5	(5)	BITSTRING	1	CVTFLGBT	- Flag byte. This byte is an interface only for bit CVTUNDVM
		1...		CVTNPE	"X'80'" - INDICATES NON-PAGING ENVIRONMENT (VM HANDSHAKING) (OS/VS1) (MDC302)
		.1..		CVTVME	"X'40'" - INDICATES MACHINE IS OPERATING IN VM ENVIRONMENT (OS/VS1) (MDC303)
		..1.		CVTBAH	"X'20'" - INDICATES THAT THE VM/370 - OS/VS1 BTAM AUTOPOLL HANDSHAKE IS OPERATIONAL (OS/VS1) (MDC356)
		...1		CVTUNDVM	"X'10'" - Running under VM (this is not the same as running in VM)
6	(6)	BITSTRING	2	CVTIOCID	- EBCDIC IDENTIFIER OF THE ACTIVE I/O CONFIGURATION SPECIFIED BY THE OPERATOR
8	(8)	ADDRESS	4	CVTDEBVR	"V(IFGDEBVR)" - ADDRESS OF BRANCH ENTRY POINT OF DEB VALIDITY CHECK ROUTINE (ICB380) XM9028
12	(C)	ADDRESS	4	CVTCVAF	- POINTER TO THE CVAF TABLE, WHICH CONTAINS THE CVAF BRANCH ENTRY ADDRESS AND NEXT VIB ADDRESS. (MDC410)
16	(10)	ADDRESS	4	CVTMMVT	"V(ICYMMVTC)" ADDRESS OF THE MEDIA MANAGER VECTOR TABLE (MDC410)
20	(14)	ADDRESS	4	CVTNCVP	ADDRESS OF CSA BUFFER POOL - USED BY NETWORK MANAGEMENT FACILITY (NMF)
24	(18)	ADDRESS	4	CVTQID(0)	- SAME AS CVTQIDA BELOW ICB381
24	(18)	BITSTRING	1		- RESERVED - FIRST BYTE OF CVTQID
25	(19)	ADDRESS	3	CVTQIDA	- ADDRESS OF QUEUE IDENTIFICATION (QID) TABLE PREFIX ICB381
28	(1C)	ADDRESS	4	CVTOLTEP	- POINTER TO CONTROL BLOCK CREATED BY SVC 59 TO POINT TO PSEUDO-DEB'S
32	(20)	BITSTRING	4	CVT2R020	- RESERVED
36	(24)	ADDRESS	4	CVTAVVT(0)	ADDRESS OF AVM CONTROL BLOCK OWNERSHIP: AVM SERIALIZATION: CS
		1...		CVTAVIN	"X'80'" INDICATES AVM INSTALLED
36	(24)	BITSTRING	4		
40	(28)	ADDRESS	4	CVTCCVT	- ADDRESS OF CRYPTOGRAPHIC FACILITY CVT (MDC370)
44	(2C)	ADDRESS	4	CVTSKTA	- ADDRESS OF STORAGE KEY TABLE (VM HANDSHAKING) (OS/VS1) (MDC304)

Table 668. Structure CVTXTNT2 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	ADDRESS	4	CVTICB	- ADDRESS OF MASS STORAGE SYSTEM (MSS) CONTROL BLOCK (MDC305)
52	(34)	BITSTRING	1	CVTFBYT1	- FLAG BYTE
		1...		CVTRDE	"X'80'" - RELIABILITY DATA EXTRACTOR INDICATOR OWNERSHIP: DFP. SERIALIZATION: NONE.
53	(35)	BITSTRING	3	CVT2R035	- RESERVED
		CVTLDTO contains the offset value needed to adjust the TOD value to the local date and time of day. It is similar to CVTTZ except that CVTLDTO is a doubleword value. CVTLDTOL and CVTTZ contain the same value.			
56	(38)	DBL WORD	8	CVTLDTO(0)	LOCAL TIME/DATE OFFSET
56	(38)	SIGNED	4	CVTLDTOL	HIGH WORD
60	(3C)	SIGNED	4	CVTLDTOR	LOW WORD
64	(40)	ADDRESS	4	CVTATCVT	- POINTER TO VTAM'S CVT
		1...		CVTATACT	"X'80'" IF ON, VTAM IS ACTIVE MDC081
68	(44)	BITSTRING	4	CVT2R044	- RESERVED
72	(48)	SIGNED	4	CVTBCLMT	- NUMBER OF 130-BYTE RECORDS SET ASIDE FOR BROADCAST MESSAGES
76	(4C)	SIGNED	4	CVT2R04C	RESERVED
80	(50)	DBL WORD	8	CVTLSO(0)	LEAP SECOND OFFSET IN TOD FORMAT
80	(50)	SIGNED	4	CVTLSOH	HIGH WORD
84	(54)	SIGNED	4	CVTLSOL	LOW WORD
88	(58)	BITSTRING	44	CVT2R058	RESERVED
		END OF CVT			

Table 669. Cross Reference for CVT

Name	Offset	Hex Tag
CVT_G64CPU_INFRASTRUCTURE	4F5	4
CVTABEND	C8	
CVTADV	3B8	
CVTAIDVT	2EC	
CVTALR	179	2
CVTALRS	4F4	8
CVTAMFF	108	0
CVTAPF	144	
CVTAPFA	145	
CVTAPFT	278	
CVTAPG	18F	7
CVTAPR	B6	40
CVTAPTHR	B7	8
CVTAQAVB	F1	
CVTAQAVT	F0	
CVTAQTOP	224	
CVTASCBH	234	
CVTASCBL	238	
CVTASCII	B6	2
CVTASCRF	1B4	

Table 669. Cross Reference for CVT (continued)

Name	Offset	Hex Tag
CVTASCRL	1B8	
CVTASMVT	2C0	
CVTASVT	22C	
CVTATACT	40	80
CVTATCVT	40	
CVTAUSCB	C	
CVTAUTHL	1E4	
CVTAVIN	24	80
CVTAVVT	24	
CVTBAH	5	20
CVTBCLMT	48	0
CVTBFP	4F2	10
CVTBFPH	179	10
CVTBLDCP	1E8	
CVTBLDLE	4	0
CVTBLDLS	0	0
CVTBRET	52	
CVTBSM0F	1AE	B0F
CVTBSM2	1DE	B02
CVTBTERM	34	
CVTBUF	10	
CVTCADS	4F0	4
CVTCALL	44A	
CVTCBBR	3CC	
CVTCBSP	100	
CVTCCH	B6	80
CVTCCVT	28	
CVTCDEQ	3D8	
CVTCGK	3E4	
CVTCKRAS	4C0	
CVTCMPSC	179	80
CVTCMPSH	179	40
CVTCPBDB	480	
CVTCPDLB	484	
CVTCPFRE	470	
CVTCPGTC	46C	
CVTCPGUB	464	
CVTCPGUP	468	
CVTCPGUS	494	
CVTCPUASALIASTOCORE	17A	10
CVTCRAS	1FC	
CVTCRMN	1F8	
CVTCRPTL	4F0	2
CVTCSD	294	
CVTCSDRL	39C	
CVTCSOAL	4CC	
CVTCSOCR	4D4	
CVTCSOCS	4D8	
CVTCSOMF	4C8	

Table 669. Cross Reference for CVT (continued)

Name	Offset	Hex Tag
CVTCSPIE	1CC	
CVTCSRIM	4B4	80
CVTCSRSI	4F4	80
CVTCSRT	220	
CVTCSRUN	4F4	20
CVTCSTR	178	4
CVTCTIMS	B7	40
CVTCTLFG	18E	10
CVTCTTVT	3F8	
CVTCUCB	64	
CVTCUSE	178	20
CVTCVAF	C	
CVTCVT	60	40C3E5E3
CVTDAIR	2DC	
CVTDAIRX	90	
CVTDARCM	36C	
CVTDATE	38	0
CVTDCB	74	9B
CVTDCBA	75	
CVTDCPA	17B	10
CVTDCQA	4E0	
CVTDDR	B6	20
CVTDEBVR	8	
CVTDELCP	1F4	
CVTDFA	4C0	
CVTDICOM	168	80
CVTDIRST	168	0
CVTDMSR	110	
CVTDMSRA	111	
CVTDMSRF	110	0
CVTDOFFE	48C	
CVTDOFFS	488	
CVTDPUR	43C	
CVTDQIQE	298	
CVTDRMOD	18E	8
CVTDSSAC	1D6	0
CVTDSTAT	18E	10
CVTDYAPF	4F1	80
CVTDYLPA	4F2	80
CVTDYNEX	4F1	20
CVTDYNL	4F1	4
CVTECT1	4F8	20
CVTECVT	8C	
CVTEDAT	179	1
CVTEDAT2	17B	1
CVTEFF02	3D0	
CVTEFLPE	44	
CVTEFLPS	40	
CVTEHCIR	2E4	

Table 669. Cross Reference for CVT (continued)

Name	Offset	Hex Tag
CVTEHDEF	2E0	
CVTEMLPE	4C	
CVTEMLPS	48	
CVTENCLV	4F1	10
CVTENFCT	C0	
CVTEORM	138	
CVTEPLPE	3C	
CVTEPLPS	38	
CVTERWNE	34	
CVTERWNS	30	
CVTESA	4F0	80
CVTESAME	17A	80
CVTEVENT	3C4	
CVTEXCL	32C	
CVTEXIT	50	
CVTEXPRO	260	
CVTEXP1	398	
CVTEXSNL	18C	0
CVTEXSNR	188	
CVTEXT1	FC	
CVTEXT2	148	
CVTEXT2A	149	
CVTE51GN	1AC	80
CVTE51LN	1AC	40
CVTFACHN	0	
CVTFBOSV	84	
CVTFBYT1	34	0
CVTFETCH	2D0	
CVTFIX	-100	
CVTFLAGS	178	
CVTFLAG1	178	0
CVTFLAG2	179	80
CVTFLAG3	17A	0
CVTFLAG4	17B	80
CVTFLAG5	F4	0
CVTFLAG6	F5	0
CVTFLAG7	F6	0
CVTFLAG8	F7	0
CVTFLGBT	5	0
CVTFLGCS	5C	
CVTFLGC0	5C	0
CVTFLGC1	5D	0
CVTFLPAE	14	
CVTFLPAS	10	
CVTFP	B7	4
CVTFQCB	280	0
CVTFRAS	204	
CVTFRECL	1F0	
CVTFUNC	4A8	0

Table 669. Cross Reference for CVT (continued)

Name	Offset	Hex Tag
CVTGDA	230	
CVTGETCL	1EC	
CVTGETL	15C	
CVTGLMN	2A8	
CVTGMBR	350	
CVTGRRGN	498	
CVTGRSST	1AC	0
CVTGSDA	3B4	
CVTGSDAB	3B4	80
CVTGSMQ	264	
CVTGTF	EC	
CVTGTFA	ED	
CVTGTFAV	EC	80
CVTGTFR8	384	
CVTGTFST	EC	
CVTGTRCE	18E	2
CVTGVRGN	49C	
CVTGVT	1B0	
CVTGXL	118	
CVTHID	42C	
CVTHIPER	4F0	10
CVTHJES	14C	
CVTHJESA	14D	
CVTHSM	3DC	
CVTH3310	4F0	80
CVTH4410	4F0	8
CVTH4420	4F0	40
CVTH4430	4F1	80
CVTH5510	4F1	20
CVTH5520	4F1	10
CVTH5530	4F1	4
CVTH6601	4F1	2
CVTH6603	4F1	4
CVTH6605	4F2	40
CVTH6606	4F2	20
CVTH6608	4F2	4
CVTH6609	4F2	2
CVTH77A0	4F6	40
CVTH7703	4F2	1
CVTH7705	4F3	10
CVTH7706	4F3	8
CVTH7707	4F3	4
CVTH7708	4F3	2
CVTH7709	4F3	1
CVTH7720	4F5	40
CVTH7730	4F5	20
CVTH7740	4F5	10
CVTH7750	4F5	8
CVTH7760	4F5	4

Table 669. Cross Reference for CVT (continued)

Name	Offset	Hex Tag
CVTH7770	4F5	2
CVTH7780	4F5	1
CVTH7790	4F6	80
CVTICB	30	
CVTICHPT	4D0	
CVTICPID	5E	0
CVTIDEVN	41C	
CVTIEFOPZ	4F8	8
CVTIFAR	4F4	1
CVTIHASU	414	
CVTIHVP	124	
CVTILM	4F4	10
CVTIOBP	2C4	
CVTIOCID	6	0
CVTIONLV	4A0	0
CVTIPCDS	2F0	
CVTIPCRI	2F4	
CVTIPCRP	2F8	
CVTIQD	179	4
CVTIRECM	368	
CVTISNBR	334	
CVTIXAVL	7C	
CVTJESCT	128	
CVTJTERM	3FC	
CVTJ3311	4F0	10
CVTJ3313	4F0	20
CVTJ4422	4F0	1
CVTJ5522	4F1	8
CVTJ6602	4F1	1
CVTJ6604	4F2	80
CVTJ6607	4F2	8
CVTJ6609	4F2	2
CVTJ7713	4F3	20
CVTJ778H	4F6	20
CVTKPAR	178	1
CVTLCCAT	300	
CVTLDEV	F0	40
CVTLDTO	38	
CVTLDTOL	38	0
CVTLDTOR	3C	0
CVTLEVL	-2	
CVTLFRM	34C	
CVTLINK	8	
CVTLKR	4F0	8
CVTLKRM	140	
CVTLKRMA	290	
CVTLLCB	24	
CVTLLTA	4DC	
CVTLLTRM	28	

Table 669. Cross Reference for CVT (continued)

Name	Offset	Hex Tag
CVTLNKSC	D6	
CVTLPARC	4F3	20
CVTLPDIA	168	
CVTLPDIR	169	
CVTLPDSR	160	
CVTLQCB	284	0
CVTLSCH	3D4	
CVTLSMQ	268	
CVTLSO	50	
CVTLSOH	50	0
CVTLSOL	54	0
CVTMAP	0	100
CVTMAXMP	1DC	1
CVTMCHPR	134	
CVTMDL	-6	
CVTMDLDS	D0	
CVTMFACT	320	80
CVTMFCTL	31C	
CVTMFRTR	320	
CVTMLPAE	C	
CVTMLPAS	8	
CVTMMVT	10	
CVTMSER	94	
CVTMSFCB	428	
CVTMSFRM	33C	
CVTMSLT	3C	
CVTMULNF	5C	80
CVTMULTICPUSPERCORE	17A	20
CVTMVPG	178	10
CVTMVSE	74	80
CVTMVS2	74	1
CVTMZ00	A4	7FFFFFFF
CVTNCVP	14	
CVTNIP	B6	10
CVTNLOG	B7	10
CVTNOMP	18E	4
CVTNPE	5	80
CVTNUCB	80	
CVTNUCLS	4	40
CVTNUCLU	4EC	
CVTNUCMP	4B0	
CVTNUMB	-4	
CVTNVT0	4C4	
CVTNWTCM	F0	20
CVTOLTEP	1C	
CVTOLT0A	1C4	
CVTOOCP	4F8	10
CVTOPCTP	25C	
CVTOPTA	B6	B2

Table 669. Cross Reference for CVT (continued)

Name	Offset	Hex Tag
CVTOPTB	B7	30
CVTOPTE	218	
CVTOSEXT	74	8
CVTOSLVA	4FA	0
CVTOSLVB	4FB	0
CVTOSLVC	4FC	0
CVTOSLVD	4FD	0
CVTOSLVE	4FE	0
CVTOSLVF	4FF	0
CVTOSLVL	4F0	
CVTOSLV0	4F0	FF
CVTOSLV1	4F1	FF
CVTOSLV2	4F2	FF
CVTOSLV3	4F3	FF
CVTOSLV4	4F4	AF
CVTOSLV5	4F5	7F
CVTOSLV6	4F6	E0
CVTOSLV7	4F7	0
CVTOSLV8	4F8	D0
CVTOSLV9	4F9	0
CVTOS390	4F1	2
CVTOS390_R1	4F1	2
CVTOS390_R10	4F2	1
CVTOS390_R2	4F1	1
CVTOS390_R3	4F1	4
CVTOS390_R4	4F2	80
CVTOS390_R5	4F2	40
CVTOS390_R6	4F2	20
CVTOS390_R7	4F2	8
CVTOS390_R8	4F2	4
CVTOS390_R9	4F2	2
CVTOS390_010100	4F1	2
CVTOS390_010200	4F1	1
CVTOS390_010300	4F1	4
CVTOS390_010400	4F2	80
CVTOS390_020400	4F2	80
CVTOS390_020500	4F2	40
CVTOS390_020600	4F2	20
CVTOS390_020700	4F2	8
CVTOS390_020800	4F2	4
CVTOS390_020900	4F2	2
CVTOS390_021000	4F2	1
CVTOVER	178	8
CVTPARMC	4F1	1
CVTPARRL	274	
CVTPARS	20C	
CVTPATCH	DC	
CVTPAUSE	4F3	80
CVTPAUSEMULTIPLE	4F6	40

Table 669. Cross Reference for CVT (continued)

Name	Offset	Hex Tag
CVTPAUS2	4F3	40
CVTPAUS3	4F8	80
CVTPAUS4	4F8	40
CVTPCCAT	2FC	
CVTPCNVT	1C	
CVTPERFM	2D8	
CVTPER2	179	8
CVTPGSER	45C	
CVTPLPAE	1C	
CVTPLPAS	18	
CVTPPGMX	1A8	
CVTPRDED	4F1	2
CVTPRLTV	20	
CVTPROCASCORE	17A	40
CVTPROD	-28	
CVTPRODI	-20	40404040
CVTPRODN	-28	40404040
CVTPROT	B7	80
CVTPSXM	430	
CVTPTGT	1D0	
CVTPTRV	120	
CVTPTRV3	13C	
CVTPUMA	4F5	80
CVTPURG	104	
CVTPURGA	105	
CVTPUTL	1BC	
CVTPVBP	318	
CVTPVTP	164	
CVTPWI	314	
CVTP001A	17B	40
CVTP001I	17B	80
CVTP002	17B	8
CVTP002C	17B	4
CVTQABST	D4	
CVTQCDSR	B8	
CVTQCS01	27C	
CVTQID	18	
CVTQIDA	19	
CVTQLPAQ	BC	
CVTQMSG	10C	
CVTQMWR	B0	
CVTQOCR	AC	
CVTQSAS	200	
CVTQTD00	6C	
CVTQTE00	68	
CVTQUIS	210	
CVTQV1	3A8	
CVTQV2	3AC	
CVTQV3	3B0	

Table 669. Cross Reference for CVT (continued)

Name	Offset	Hex Tag
CVTRAC	3E0	
CVTRBCB	16C	
CVTRCEP	490	
CVTRCP2B	152	0
CVTRDE	34	80
CVTREAL	11C	
CVTRECON	380	
CVTRECRQ	2BC	
CVTRELNO	-4	
CVTRENQ	288	
CVTRI	17B	2
CVTRLSTG	358	0
CVTRMBR	348	
CVTRMPMT	394	
CVTRMPTT	390	
CVTRMS	E0	
CVTRMT	408	
CVTRNIO	EC	2
CVTRONE	2C	
CVTRONS	28	
CVTRPOST	29C	
CVTRSCN	194	
CVTRSMWD	178	80
CVTRSPIE	28C	
CVTRSTCI	2CC	0
CVTRSTRI	2CE	0
CVTRSTRS	151	0
CVTRSTWD	2CC	
CVTRSTW2	150	
CVTRSUME	400	
CVTRS1AD	1AD	0
CVTRS1D7	1D7	0
CVTRS12C	12C	0
CVTRS150	150	0
CVTRS170	170	0
CVTRS180	180	0
CVTRS26C	26C	0
CVTRS3A4	3A4	0
CVTRS3C0	3C0	0
CVTRS360	360	0
CVTRS374	374	0
CVTRS4A1	4A1	0
CVTRS4B5	4B5	0
CVTRS444	444	
CVTRTLS	4F2	80
CVTRTMCT	23C	
CVTRTMS	250	
CVTRT03	17C	
CVTRWNE	24	

Table 669. Cross Reference for CVT (continued)

Name	Offset	Hex Tag
CVTRWNS	20	
CVTSAF	F8	
CVTSCAN	1E0	
CVTSCBP	248	
CVTSCPIN	340	
CVTSDBF	24C	80000000
CVTSDMP	244	
CVTSDRM	21C	
CVTSDTRC	18E	1
CVTSDUMP	110	80
CVTSFR	114	
CVTSFV	418	
CVTSHRVM	1A0	
CVTSIC	258	
CVTSIGPT	1D4	1E
CVTSKTA	2C	
CVTSLID	175	
CVTSLIDA	174	
CVTSLIST	474	
CVTSLOC	47C	
CVTSMCA	C4	
CVTSMEXT	4AC	
CVTSMFEX	1C8	
CVTSMFSP	424	
CVTSMF83	420	
CVTSNAME	154	40404040
CVTSNCTR	B4	0
CVTSOLED	F5	80
CVTSOLN	4A8	80
CVTSOPF	179	20
CVTSPD	EC	40
CVTSPDMC	1D5	0
CVTSPDME	E4	
CVTSPFRR	35C	
CVTSPIP	4BC	
CVTSPOST	2C8	
CVTSPSA	2AC	
CVTSPVLK	18D	
CVTSRBRT	1C0	
CVTSREGN	478	
CVTSRM	3E8	
CVTSSAP	2E8	
CVTSSCR	3C8	
CVTSSRB	3A0	
CVTSTB	70	
CVTSTCK	1D8	
CVTSTXU	214	
CVTSUBSP	178	2
CVTSUP	4F4	2

Table 669. Cross Reference for CVT (continued)

Name	Offset	Hex Tag
CVTSUSP	410	
CVTSVDCB	54	
CVTSVPRC	178	40
CVTSVT	364	
CVTSV60	240	
CVTSV76M	78	0
CVTSYLK	174	0
CVTSYLKR	174	0
CVTSYLKS	174	FF
CVTSYSAD	30	
CVTS1EE	208	
CVTTAS	198	
CVTTCASP	3F4	
CVTTCBP	0	
CVTTCMFG	F0	0
CVTTCRDY	F0	80
CVTTCTL	404	
CVTTOCP	4F4	4
CVTTOD	B7	20
CVTTPC	58	
CVTTPIO	3BC	
CVTTPIOS	254	
CVTTPUR	438	
CVTTRCRM	19C	
CVTTRPOS	440	
CVTTSCE	D8	
CVTTSKI	460	
CVTTVT	9C	
CVTTX	17B	8
CVTTXC	17B	4
CVTTXJ	18E	80
CVTTXTE	18E	80
CVTTZ	130	0
CVTT6SVC	40C	
CVTUCBA	4E4	
CVTUCBSC	434	
CVTUCBSV	4F0	8
CVTUDUMP	110	40
CVTUNDVM	5	10
CVTUNICS	4F4	40
CVTUSER	CC	
CVTUSR	EC	4
CVTVACR	37C	
CVTVEAC0	2A4	
CVTVEF	F4	80
CVTVERID	-18	40404040
CVTVESTU	4E8	
CVTVFCB	458	
CVTVFGET	450	

Table 669. Cross Reference for CVT (continued)

Name	Offset	Hex Tag
CVTVFIND	44C	
CVTVFMEM	454	
CVTVME	5	40
CVTVPRM	4C	
CVTVPSA	38C	
CVTVPSIB	324	
CVTVPSM	4E	0
CVTVSI	328	
CVTVSS	4C	0
CVTVSTGX	0	
CVTVSTOP	388	
CVTVS1A	B7	2
CVTVS1B	B7	1
CVTVTAM	4B8	
CVTVVMDI	228	
CVTVWAIT	270	
CVTV64	4F3	10
CVTWARNUND	B6	8
CVTWLM	4F1	40
CVTWSAC	2B8	
CVTWSAG	2B4	
CVTWSAL	2B0	
CVTWSMA	344	
CVTWSPR	EC	20
CVTWTCB	378	
CVTXAFL	4B4	0
CVTXAPG	14	
CVTXAX	4F0	80
CVTXCPCT	448	1F4
CVTXEXTR	338	
CVTXITP	44	
CVTXPFP	B6	1
CVTXSFT	304	
CVTXSTKN	30C	
CVTXSTKS	308	
CVTXTLER	2C	
CVTXTNT1	0	
CVTXTNT2	0	
CVTXUNSN	330	
CVTXUNSS	310	
CVTZARCH	17A	80
CVTZDTAB	40	
CVTZIIP	4F4	2
CVTZNALC	17B	20
CVTZOS	4F3	20
CVTZOS_V1R1	4F3	20
CVTZOS_V1R10	4F5	8
CVTZOS_V1R11	4F5	4
CVTZOS_V1R12	4F5	2

Table 669. Cross Reference for CVT (continued)

Name	Offset	Hex Tag
CVTZOS_V1R13	4F5	1
CVTZOS_V1R13_JBB778H	4F6	20
CVTZOS_V1R2	4F3	10
CVTZOS_V1R3	4F3	8
CVTZOS_V1R4	4F3	4
CVTZOS_V1R5	4F3	2
CVTZOS_V1R6	4F3	1
CVTZOS_V1R7	4F5	40
CVTZOS_V1R8	4F5	20
CVTZOS_V1R9	4F5	10
CVTZOS_V2R1	4F6	80
CVTZOS_V2R2	4F6	40
CVTZOS_010100	4F3	20
CVTZOS_010200	4F3	10
CVTZOS_010300	4F3	8
CVTZOS_010400	4F3	4
CVTZOS_010500	4F3	2
CVTZOS_010600	4F3	1
CVTZOS_010700	4F5	40
CVTZOS_010800	4F5	20
CVTZOS_010900	4F5	10
CVTZOS_011000	4F5	8
CVTZOS_011100	4F5	4
CVTZOS_011200	4F5	2
CVTZOS_011300	4F5	1
CVTZOS_011300_JBB778H	4F6	20
CVTZOS_020100	4F6	80
CVTZOS_020200	4F6	40
CVTZOSAS	4F5	80
CVTZOSE	4F5	80
CVTZ1	F4	80
CVT0DS	88	
CVT0EF00	4	
CVT0EF01	48	
CVT0PT0E	3EC	
CVT0PT01	98	
CVT0PT02	370	
CVT0PT03	3F0	
CVT0SCR1	E8	
CVT0TC0A	354	
CVT0VL00	18	
CVT0VL01	1A4	
CVT040ID	A0	0
CVT044R2	2D4	
CVT062R1	2A0	
CVT1EF00	A8	
CVT1R004	4	0
CVT1SSS	74	40
CVT121TR	B6	4

Table 669. Cross Reference for CVT (continued)

Name	Offset	Hex Tag
CVT2R000	0	0
CVT2R020	20	0
CVT2R035	35	0
CVT2R04C	4C	0
CVT2R044	44	0
CVT2R058	58	0
CVT2SPS	74	20
CVT4MPS	74	4
CVT4MS1	74	10
CVT6DAT	74	2
CVT8AOS2	74	12

Chapter 148. CXSA Information

CXSA Heading Information

Common Name:	SVC 72 Extended Save Area
Macro ID:	IEZVD002
DSECT Name:	CXSA
Owning Component:	Consoles (SC1CK)
Eye-Catcher ID:	None
Storage Attributes:	Main Storage: Yes Subpool: 245 (231 when IEAVSWCH invokes CNZS1CNF) Key: 0
Size:	CXSA -- X'0041' bytes
Created by:	SVC 72 Routines, IEAVSWCH
Pointed to by:	N/A
Serialization:	N/A $MAC(IEAVC002) COMP(SC1CK): SVC 72 Extended Save Area
Function:	Contains work and save areas for SVC 72 routines.

CXSA mapping

Table 670. Structure CXSA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	65	CXSA	
0	(0)	ADDRESS	4	CSANPTR	PTR TO CSANAME
4	(4)	ADDRESS	4	CSADCBP	FRR WORK, INITIALIZED TO 0
8	(8)	CHARACTER	8	CSANAME	EBCDIC NAME OF MODULE CALLED
16	(10)	CHARACTER	4	CSAUCM	CODE AND UCM PTR
16	(10)	UNSIGNED	1	CSACODE	Failure Reason Code
17	(11)	ADDRESS	3	CSAUCMA	UCME PTR OR CPU ID OR 0
20	(14)	ADDRESS	4	CSACTLM	PTR TO UCM BASE
		FIELDS CSAXA, CSAXB, CSAXC, CSAXD, CSAXE, AND CSAXF ARE FOR THE GENERAL USE OF INDIVIDUAL MODULES. IN THE CASES WHERE MULTIPLE DEFINITIONS ARE MADE OF THESE FIELDS, THE USAGE OF THE NEW DEFINITIONS ARE EXPLAINED			
24	(18)	ADDRESS	4	CSAXA	
28	(1C)	ADDRESS	4	CSAXB	
32	(20)	ADDRESS	4	CSAXC	
36	(24)	ADDRESS	4	CSAXD	
40	(28)	ADDRESS	4	CSAXE	
44	(2C)	ADDRESS	4	CSAXF	
		THIS POINT IS THE END OF THE SVC72 PARAMETER LIST. WARNING - The following fields must only be used by Console Failure, never by DIDOCS!			
48	(30)	CHARACTER	8	CSASWCN1	Failing Console Name
56	(38)	CHARACTER	8	CSARSV1	Reserved (was CSASWCN2)
64	(40)	BITSTRING	1	CSAFLAG1	FLAG BYTE
		1...		CSARSV2	Reserved (was CSANOBU)

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Table 670. Structure CXSA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CSAXSYSR	HOLDING SYSPLEX RESOURCES
		..1.		CSA_FREE_CXSA	Console Failure routine should free this CXSA
		...1 1111		*	RESERVED

Table 671. Constants for CXSA

Len	Type	Value	Name	Description
		THE FOLLOWING CONSTANTS ARE SET INTO FIELD CSACODE BY ANY MODULE BEFORE CALLING IEAVSWCH, issuing SVC 72 for Console Failure or invoking CNZS1CNF.		
1	DECIMAL	5	CSAIOER	Console had an I/O error
1	DECIMAL	6	CSASWER	Console has a S/W error
1	DECIMAL	9	CSAOPER	Console failed during OPEN
1	DECIMAL	32	CSACFCHP	CONFIG CHP COMMAND
1	DECIMAL	33	CSASFAIL	System failure caused a console to fail
		THE FOLLOWING CONSTANTS WILL BE SET BY IEAVSWCH INTO CSACODE BEFORE CALLING A DSP TO OPEN OR CLOSE A CONSOLE.		
1	DECIMAL	0	CSAOPEN	TEST CSACODE FOR OPEN REQUEST, ONLY USED IN DIDOCS
1	DECIMAL	4	CSACLOSE	TEST CSACODE FOR CLOSE REQUEST, ONLY USED IN DIDOCS
		THE FOLLOWING CONSTANT IS USED IN IEAV1443 AND IEECVETW TO INDICATE THAT OPEN OR CLOSE PROCESSING HAS BEEN COMPLETED AND THE X-SYSTEM SERVICE SHOULD BE INVOKED TO UPDATE UCME		
1	DECIMAL	255	CSAXSYS	TEST CSACODE FOR X-SYSTEM UPDATE

Table 672. Cross Reference for CXSA

Name	Offset	Hex Tag
CSA_FREE_CXSA	40	20
CSACODE	10	
CSACTLM	14	
CSADCBP	4	
CSAFLAG1	40	
CSANAME	8	
CSANPTR	0	
CSARSV1	38	
CSARSV2	40	80
CSASWCN1	30	
CSAUCM	10	
CSAUCMA	11	
CSAXA	18	
CSAXB	1C	
CSAXC	20	
CSAXD	24	
CSAXE	28	
CSAXF	2C	

Table 672. Cross Reference for CXSA (continued)

Name	Offset	Hex Tag
CSAXSYSR	40	40
CXSA	0	

Chapter 149. CXT Information

CXT Programming Interface Information

CXT is a programming interface.

CXT Heading Information

Common Name:	Parameter list for DLF installation exit initialization, query, connect, and disconnect.
Macro ID:	COFZCXIT
DSECT Name:	CXT
Owning Component:	Data Lookaside Facility (SC164)
Eye-Catcher ID:	CXT Offset: 0 Length: 3
Storage Attributes:	Key: 0
Size:	160 bytes
Created by:	COFMCONN, COFMDISC, COFMSCHK
Pointed to by:	Register 1 on entry to the DLF Installation exit
Serialization:	None
Function:	COFZCXIT maps the parameters passed to the DLF installation exit used to control connects and disconnects to shared data objects. The exit is also queried to determine whether a particular data object is ever eligible for connection. In addition to the above functions, the exit also sets up the data used to control connects and disconnects to shared data objects.

CXT mapping

Table 673. Structure CXT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CXT	
0	(0)	DBL WORD	8	(0)	
0	(0)	CHARACTER	3	CXTACRO	* Eye catcher 'CXT'
Constant for CXTACRO					
0	(0)	X'C3E7E3'	0	CXTACROC	"C'CXT'" * CXT acronym constant
3	(3)	SIGNED	1	CXTVERS	* Version
Constant for CXTVERS					
	1			CXTVERSC	"X'01'" * CXT version number constant
4	(4)	SIGNED	1	CXTFUN	* Function code for the exit
Constants for CXTFUN					
	....			CXTFUNIN	"X'00'" * This is an initialization function
	1			CXTFUNQU	"X'01'" * This is a query function

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Table 673. Structure CXT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		CXTFUNCO	"X'02'" * This is a connect function
		11		CXTFUNDI	"X'03'" * This is a disconnect function
5	(5)	CHARACTER	3	CXTRSV05	* Reserved
8	(8)	CHARACTER	64	CXTOBNAM	* Object name (CXTVOL,CXTDSN,CXTRSV3A)
8	(8)	CHARACTER	6	CXTVOL	* Volume Serial of the data set
14	(E)	CHARACTER	44	CXTDSN	* Data set name (fully qualified, no quotes).
58	(3A)	CHARACTER	14	CXTRSV3A	* Reserved
72	(48)	SIGNED	4	CXTNUMSG	* Number of full 2GB segments requested for this object. If a fractional number of 2GB segments was requested, CXTLSGSZ contains the size of the fractional segment. Total size is computed as CXTNUMSG*2GB + CXTLSGSZ.
76	(4C)	SIGNED	4	CXTLSGSZ	* Fractional portion of size of the object which is not a multiple of 2GB. (0 <= CXTLSGSZ < 2GB)
80	(50)	CHARACTER	8	CXTJOBNM	* Current Job name
88	(58)	CHARACTER	8	CXTUSRNM	* Current User name
96	(60)	SIGNED	4	CXTMEXPB	* MAXEXPB value from parmlib member (COFDLFxx). Maximum total expanded storage (in 4K blocks) concurrently usable by DLF objects.
100	(64)	CHARACTER	4	CXTMREBS	* Computed as (PCTRETB * MAXEXPB)/100 from parmlib (COFDLFxx). Maximum total expanded storage (in 4K blocks) concurrently usable by retainable DLF objects.
104	(68)	CHARACTER	4	CXTMNREB	* Computed as MAXEXPB-CXTMREBS . Maximum total expanded storage (in 4K blocks) concurrently usable by non-retainable shared data objects of this class.
108	(6C)	SIGNED	4	CXTUDAB	* Address of the User Data area Anchor Block.
112	(70)	CHARACTER	28	CXTRSV70	* Reserved
140	(8C)	BITSTRING	1	CXTIFLGS	* Input Flags to the Exits
Constant for CXTIFLGS					
		1...		CXTDSC	"X'80'" * '1'B - This DLF object is for Hiperbatch.
7 bits reserved in CXTIFLGS					
141	(8D)	BITSTRING	1	CXTSFLGS	* Flags set according to information obtained from the security product (e.g. RACF) .
Constant for CXTSFLGS					

Table 673. Structure CXT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CXTPROF	"X'80'" * '1'B - security profile exists
		.1..		CXTUAUTH	"X'40'" * '1'B - user is authorized to access the requested object
		..1.		CXTJAUTH	"X'20'" * '1'B - job is authorized to access the requested object
		...1		CXTSRTN	"X'10'" * '1'B - this object is eligible to be retained when disconnected
4 bits reserved in CXTSFLGS					
142	(8E)	BITSTRING	1	CXTOFLGC	* CONN: Flags which may be changed by the CONNECT exit
Constants for CXTOFLGC 8 bits reserved in CXTOFLGC					
143	(8F)	BITSTRING	1	CXTOFLGD	* DISC: Flags which may be changed by the DISCONNECT exit
8 bits reserved in CXTOFLGD					
144	(90)	CHARACTER	16	CXTUDATA	* User Exit Data. 16 bytes of data that are controlled by the user exit.
144	(90)	BITSTRING	1	CXTDSCFD	* Flags which may be changed by the exit. Returned to the caller via USERDATA
Constants for CXTDSCFD					
		1...		CXTRTAIN	"X'80'" * '1'B - Object is to be retained even if there are no connected users. '0'B - Object is to be deleted if there are no connected users. For Hiperbatch, this may be set on a CONNECT only!
		.1..		CXTTSTMD	"X'40'" * '1'B - Test Mode was indicated in Parmlib member COFXITnn
145	(91)	CHARACTER	3	CXTRSV91	
148	(94)	SIGNED	4	CXTDSMAX	* QRY:CONN: Maximum number of VSAM/QSAM data sets for which DLF objects may exist simultaneously. This value is only used after the first query or connect call to the exit without regard to the return code set by the exit. DEFAULT: 50
152	(98)	CHARACTER	8	CXTRSV98	
160	(A0)	CHARACTER	1	CXTEND(0)	* End of mapping
160	(A0)	X'A0'	0	CXTPLEN	"*-CXT" * Length of Exit Parms

Table 673. Structure CXT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
%COFZCXIT1:;
%DECLARE CXITBASED CHAR EXT;
   Map the DLF Installation Exit Interface
DECLARE
    1 CXT CXITBASED BDY(DWORD),
      3 CXTACRO CHAR(3), Eye catcher 'CXT'
      3 CXTVERS FIXED(8), Version
      3 CXTFUN FIXED(8), Function code for the exit.
                                  '00'X - This is an initializa-
                                          tion request
                                  '01'X - This is a query request
                                  '02'X - This is a connect req
                                  '03'X - This is a disconnect
      3 CXTRSV05 CHAR(3), Reserved
      3 CXTOBNAM CHAR(64), Object name
        5 CXTVOL CHAR(6), Volume Serial of the data set
        5 CXTDSN CHAR(44), Data set name (fully qualified,
                                  no quotes).
        5 CXTRSV3A CHAR(14), Reserved
      3 CXTNUMSG FIXED(31), Number of full 2GB segments
                                  requested for this object. If a
                                  fractional number of 2GB
                                  segments was requested, CXTLSGSZ
                                  contains the size of the
                                  fractional segment. Total size
                                  is computed as CXTNUMSG 2GB +
                                  CXTLSGSZ.
      3 CXTLSGSZ FIXED(31), Fractional portion of the size
                                  of the object which is not a
                                  multiple of 2GB.
                                          (0 <= CXTLSGSZ < 2GB)
      3 CXTJOBNM CHAR(8), Current Job name
      3 CXTUSRNM CHAR(8), Current User name
      3 CXTMEXPB FIXED(31), MAXEXPB value from parmlib
                                  (COFDLFxx). Maximum total
                                  expanded storage (in 4K blocks)
                                  concurrently usable by shared
                                  data objects of this class.
      3 CXTMREBS FIXED(31), Computed as
                                  (PCTRETB MAXEXPB)/100
                                  from parmlib (COFDLFxx).
                                  Maximum total expanded storage
                                  (in 4K blocks) concurrently
                                  usable by retainable shared
                                  data objects of this class.
      3 CXTMNREB FIXED(31), Computed as MAXEXPB-CXTMREBS .
                                  Maximum total expanded storage
                                  (in 4K blocks) concurrently
                                  usable by retainable shared
                                  data objects of this class.
      3 CXTUDAB PTR(31), Address of the User Data area
```

Table 673. Structure CXT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
                                    anchor block
      3 CXTRSV70 CHAR(28), Reserved
      3 CXTFLAGS CHAR(4), Flag fields
        5 CXTIFLGS BIT(8), Input Flags to the Exits
          7 CXTDSC BIT(1), '1'B - This shared object is
                                          Hiperbatch.
          7 BIT(7), Reserved
        5 CXTSFLGS BIT(8), Flags set according to
                                    information obtained from the
                                    security product (e.g. RACF).
          7 CXTPROF BIT(1), '1'B - security profile exists
          7 CXTUAUTH BIT(1), '1'B - user is authorized to
                                          access the requested
                                          object
          7 CXTJAUTH BIT(1), '1'B - job is authorized to
                                          access the requested
                                          object
          7 CXTSRTN BIT(1), '1'B - this object is eligible
                                          to be retained when
                                          disconnected
          7 BIT(4), Reserved
        5 CXTOFLGC BIT(8), CONN: Flags which may be changed
                                    by the CONNECT exit
          7 CXTRSV8E BIT(8), Reserved
        5 CXTOFLGD BIT(8), DISC: Flags which may be changed
                                    by the DISCONNECT exit
          7 CXTRSV8F BIT(8), Reserved
      3 CXTUDATA CHAR(16) BDY(DWORD), User Exit Data. 16 bytes
                                    of data that are controlled by
                                    the user exit.
        5 CXTDSCFD BIT(8), Flags which may be changed
                              by the installation exit. Returned to
                              the caller via USERDATA.
          7 CXTRTAIN BIT(1), '1'B - Object is to be retained
                                    even if there are no connected
                                    users.
                                    '0'B - Object is to be deleted
                                    if there are no connected users.
                                    For Hiperbatch, this bit may
                                    be set during a CONNECT only!
          7 CXTTSTMD BIT(1), '1'B - Test Mode was indicated
                                    in Parmlib member COFXITnn
          7 BIT(6), Reserved
        5 CXTRSV91 CHAR(3), Reserved
        5 CXTDSMAX FIXED(32) BDY(WORD), QRY:CONN: Maximum number of
                                    VSAM/QSAM data sets for which
                                    DLF objects may exist
                                    simultaneously. This value is
                                    only used after the first
                                    query or connect call
                                    to the exit without regard to
                                    to the return code set by the
```

Table 673. Structure CXT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
				exit. DEFAULT: 50	
				5 CXTRSV98 CHAR(8), Reserved	
				3 CXTEND CHAR(0); End of mapping	
				The following fields are constants that can be used to set CXTACRO or CXTVERS	
				DCL	
				CXTACROC CHAR(3) CONSTANT('CXT'), CXT Acronym constant	
				CXTVERSC FIXED(8) CONSTANT(1); CXT version number	
				The following fields are constants that can be used to set CXTFUN.	
				DCL	
				CXTFUNIN FIXED(8) CONSTANT(0), Function is initialization	
				CXTFUNQU FIXED(8) CONSTANT(1), Function is a query	
				CXTFUNCO FIXED(8) CONSTANT(2), Function is a connect	
				CXTFUNDI FIXED(8) CONSTANT(3); Function is a disconnect	

Table 674. Cross Reference for CXT

Name	Offset	Hex Tag
CXT	0	
CXTACRO	0	
CXTACROC	0	C3E7E3
CXTDSC	8C	80
CXTDSCFD	90	
CXTDSMAX	94	
CXTDSN	E	
CXTEND	A0	
CXTFUN	4	
CXTFUNCO	4	2
CXTFUNDI	4	3
CXTFUNIN	4	0
CXTFUNQU	4	1
CXTIFLGS	8C	
CXTJAUTH	8D	20
CXTJOBNM	50	
CXTLSGSZ	4C	
CXTMEXPB	60	
CXTMNREB	68	
CXTMREBS	64	
CXTNUMSG	48	
CXTOBNAM	8	
CXTOFLGC	8E	
CXTOFLGD	8F	
CXTPLEN	A0	A0
CXTPROF	8D	80
CXTRSV05	5	
CXTRSV3A	3A	
CXTRSV70	70	
CXTRSV91	91	
CXTRSV98	98	

Table 674. Cross Reference for CXT (continued)

Name	Offset	Hex Tag
CXTRTAIN	90	80
CXTSFLGS	8D	
CXTSRTN	8D	10
CXTTSTMD	90	40
CXTUAUTH	8D	40
CXTUDAB	6C	
CXTUDATA	90	
CXTUSRNM	58	
CXTVERS	3	
CXTVERSC	3	1
CXTVOL	8	

Chapter 150. DAIT Information

DAIT Heading Information

Common Name:	Display Allocation Index Table (DAIT)
Macro ID:	IEFZB4H3
DSECT Name:	DAIT
Owning Component:	Allocation (SC1B4)
Eye-Catcher ID:	DAIT Offset: 0 Length: 4
Storage Attributes:	Main Storage: No Virtual Storage: Yes Auxiliary Storage: Yes Subpool: 230 Key: 1 Data Space: No Residency: Any
Size:	DAITHDR is 24 decimal bytes DAITENTR is 8 decimal bytes and there is one for each unit in the system
Created by:	The DAIT is created by the Allocation Address Space Initialization routine (IEFHB4I1).
Pointed to by:	The DAIT is anchored by the ADBDAIT field of the ADB structure (IEFZB4H1).
Serialization:	None.
Function:	This macro provides a symbolic mapping which contains pointers to DALTs for each unit. To access the DALT for a unit, use the unit address as an index into the DAIT. It also points to the ONLINE AUTOSWITCH DEVICE control block (CASE/390 IEFZB4H5) if the unit was ever ONLINE and AUTOSWITCH

DAIT mapping

Table 675. Structure DAIT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	DAIT	DISPLAY ALLOCATION INDEX TABLE
0	(0)	CHARACTER	24	DAITHDR	HEADER OF DAIT
0	(0)	CHARACTER	4	DAITID	ACRONYM: DAIT
4	(4)	SIGNED	4	DAITMAXA	Maximum ASID value
8	(8)	SIGNED	4	DAITMAXD	Maximum device number
12	(C)	ADDRESS	4	DAITACHN	Chain of available DALTs
16	(10)	SIGNED	4	DAITDLEN	The length of a DALT
20	(14)	CHARACTER	4	*	Reserved
24	(18)	CHARACTER	8	DAITENTR(*)	DAIT ENTRIES
24	(18)	ADDRESS	4	DAITDALT	Address of the DALT for unit associated with the DAIT index.
28	(1C)	ADDRESS	4	DAITOASD	address of the ONLINE AUTOSWITCH element (IEFZB4H5) if applicable

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DAIT mapping

Table 676. Constants for DAIT

Len	Type	Value	Name	Description
Associated declares				
4	CHARACTER	DAIT	DAITACRO	DAIT acronym

Table 677. Cross Reference for DAIT

Name	Offset	Hex Tag
DAIT	0	
DAITACHN	C	
DAITDALT	18	
DAITDLEN	10	
DAITENTR	18	
DAITHDR	0	
DAITID	0	
DAITMAXA	4	
DAITMAXD	8	
DAITOASD	1C	

Chapter 151. DALT Information

DALT Heading Information

Common Name:	Display allocation lookup table (DALT)
Macro ID:	IEFZB4H0
DSECT Name:	DALT
Owning Component:	Allocation (SC1B4)
Eye-Catcher ID:	DALT Offset: 0 Length: 4
Storage Attributes:	Main Storage: No Virtual Storage: Yes Auxiliary Storage: Yes Subpool: 230 Key: 1 Data Space: No Residency: Any
Size:	DALTHDR is 8 decimal bytes DALTENTR is 2 decimal bytes and there is one for each possible address space in the system
Created by:	DALTs are created by the Allocation Address Space Initialization routine (IEFHB4I1) and by the Update Allocation Tables routine (IEFHB420).
Pointed to by:	DALTs are anchored by the DAITDALT array entries of the DAIT structure (IEFZB4H3).
Serialization:	None.
Function:	This macro provides a symbolic mapping of the use counts for a unit, for each address space. To locate the use counts for a particular device, use the unit address as an index into the DAIT. To locate the use count for a particular address space, use the ASID as an index into the DALT.

DALT mapping

Table 678. Structure DALT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	DALT	DISPLAY ALLOCATION LOOKUP TABLE
0	(0)	CHARACTER	8	DALTHDR	HEADER OF DALT
0	(0)	CHARACTER	4	DALTID	ACRONYM: DALT
4	(4)	ADDRESS	4	DALTNEXT	Ptr to next available DALT
8	(8)	CHARACTER	2	DALTENTR(*)	BEGINNING OF DALT ENTRIES
8	(8)	UNSIGNED	2	DALTUSE	UNIT USE COUNT FOR THIS ASID

Table 679. Constants for DALT

Len	Type	Value	Name	Description
4	CHARACTER	DALT	DALTACRO	DALT acronym

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Chapter 152. DCCB Information

DCCB Heading Information

Common Name: DISABLED CONSOLE COMMUNICATION BLOCK
Macro ID: IEEDCCB
DSECT Name: DCCB (Disabled Console Communication Block), DCCBMSGS (DCCB Message Array), DCCBMSG (Single Message in Array), DCCBCONS (DCCB Communication Area)
Owning Component: Console Services (SC1CK)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 245 or 239
- THE STORAGE USED FOR AND POINTED TO BY THIS INTERFACE MUST BE FIXED.
Size: 1280 bytes
Created by:

MODULE:	DESCRIPTION:
IEAVBWTO	Console Services.
IEAVBNLK	Console Services.
IEAVNWTO	Console Services.
IEEVDCCA	Console Services.

Pointed to by: DCCBPTR
Serialization: None
Function: To provide the interface between the disabled console communication facility routines and its callers.
This interface contains data and message text to provide diagnostic and problem-determination assistance to the system operator in conditions where the normal interactive facilities cannot be used.

DCCB mapping

Table 680. Structure DCCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	16	DCCB	ADDRESSABILITY ESTABLISHED VIA DCCBPTR
0	(0)	ADDRESS	4	DCCBSCRN	ADDRESS OF MESSAGE ARRAY
4	(4)	ADDRESS	4	DCCBRPLY	If reply is expected, points to a 75 byte field where the reply is placed.
8	(8)	BITSTRING	1	DCCB_OUTPUT_FLAGS	Output flags
		1...		DCCB_SENT_VIA_SYSCONS	Data was sent to the system console
		.1..		DCCB_AUTOR_REPLY_TIMED_OUT	Time expired before a reply was provided
9	(9)	BITSTRING	1	DCCB_INPUT_REQUESTS	Input requests
		1...		DCCB_NO_WAIT_AFTER_MSG	Do not wait after the message is displayed
		.1..		DCCB_NOTIFY_MSG	The message is a Synch WTOR notification message
10	(A)	CHARACTER	2	DCCBINTF	Interface flags for input.

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Table 680. Structure DCCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		DCCBNOHO	DO NOT HOLD AN INFORMATIONAL MESSAGE ON THE SCREEN.
		.1..		DCCBDSAB	DO NOT ENABLE FOR I/O INTERRUPTS. CALLER MAY HOLD A UCB OR HIGHER LOCK - OBTAIN LOCK CONDITIONALLY.
		..1.		DCCBNPST	DO NOT POST CONSOLE SERVICES TO PERFORM CONSOLE CLEANUP.
		...1		DCCBNORV	Do not validate reply.
		.... 1...		DCCBNOTM	Do not time out waiting for reply.
		.... .1..		DCCBNOAL	Do not sound console alarm.
		.... ..1.		DCCBNHDR	Do not display header message.
		1		DCCBNOEI	Do not use OMAR.
11	(B)	1...		DCCBNOER	Do not erase the screen before displaying the message.
		.1..		DCCBQNIP	Send message to NIP console
		..1.		DCCBLWWC	Message is associated to a wait state request. An attempt will be made to use OMAR if necessary
		...1		DCCBONRS	OMAR needs to be reset. This flag is an output bit.
		.... 1...		DCCBRSOO	Reset OMAR only.
		.... .1..		DCCBNLCK	Do not enter lock mgr
		.... ..1.		DCCBUCON	Try to write to specified console first
		1		DCCB_AUTOR_DATA	WTOR has Auto-Reply data
12	(C)	ADDRESS	4	DCCBINF@	Address of communication area for additional console information.

Table 681. Structure DCCBMSGS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	DCCBMSGS	MESSAGE ARRAY. FORMATS A LINE OF THE MESSAGE THAT WILL BE ADDRESSED FROM DCCBSCRN OR DCCBNEXT.
0	(0)	ADDRESS	4	DCCBNEXT	POINTS TO THE NEXT LINE OF MESSAGE TO BE PUT ON THE SCREEN OR ZERO FOR THE LAST LINE.
4	(4)	CHARACTER	*	DCCBWPL	
4	(4)	CHARACTER	4	DCCBMPFX	MESSAGE PREFIX DATA.
4	(4)	SIGNED	2	DCCBDLEN	LENGTH OF MESSAGE TEXT (DCCBDATA) PLUS LENGTH OF MESSAGE PREFIX (DCCBMPFX).
6	(6)	CHARACTER	2	DCCBMCS	Reserved.
8	(8)	CHARACTER	*	DCCBDATA	TEXT TO BE PUT ON THE CONSOLE'S SCREEN.

Table 682. Structure DCCBMSG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	8	DCCBMSG	THE MESSAGE THAT WILL BE ADDRESSED FROM DCCBSCRN OR DCCBNEXT.
0	(0)	CHARACTER	8	DCCBARYD	ARRAY DATA.

Table 683. Structure DCCBCONS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	32	DCCBCONS	Communication area for additional console info.
0	(0)	CHARACTER	8	DCCBDEST	Output: Console written to Input: Console to write to
0	(0)	CHARACTER	4	DCCBUCME	Copy of DWSAG_CNSL_UCMEDVEPT from console write (pointer to UCME)
4	(4)	UNSIGNED	1	DCCBCARQ	Copy of console request type from console write
5	(5)	CHARACTER	3	*	Reserved
8	(8)	ADDRESS	4	DCCBSYCI	Information needed by IEEVDCCA in case the destination is the system console.
12	(C)	UNSIGNED	2	DCCB_AUTOR_DELAY	Time is in seconds
14	(E)	CHARACTER	2	*	Reserved
16	(10)	CHARACTER	8	DCCB_AUTOR_ELAPSED_TOD	Time WTOR should be replied to
24	(18)	CHARACTER	8	*	Reserved

Table 684. Constants for DCCB

Len	Type	Value	Name	Description
4	DECIMAL	14	DCCB_CALLER_LINES	Number of DCCB message text lines allowed on input
4	DECIMAL	1	DCCB_RESPONSE_LINES	Number of lines allowed for WTOR response
4	DECIMAL	1280	DCCB_MAX_LENGTH	Maximum size of a DCCB

Table 685. Cross Reference for DCCB

Name	Offset	Hex Tag
DCCB	0	
DCCB_AUTOR_DATA	B	01
DCCB_AUTOR_DELAY	C	
DCCB_AUTOR_ELAPSED_TOD	10	
DCCB_AUTOR_REPLY_TIMED_OUT	8	40
DCCB_INPUT_REQUESTS	9	
DCCB_NO_WAIT_AFTER_MSG	9	80
DCCB_NOTIFY_MSG	9	40
DCCB_OUTPUT_FLAGS	8	
DCCB_SENT_VIA_SYSCONS	8	80
DCCBARYD	0	
DCCBCARQ	4	
DCCBCONS	0	

Table 685. Cross Reference for DCCB (continued)

Name	Offset	Hex Tag
DCCBDATA	8	
DCCBDEST	0	
DCCBDLEN	4	
DCCBDSAB	A	40
DCCBINF@	C	
DCCBINTF	A	
DCCBLWWC	B	20
DCCBMCS	6	
DCCBMPFX	4	
DCCBMSG	0	
DCCBMSGS	0	
DCCBNEXT	0	
DCCBNHDR	A	02
DCCBNLCK	B	04
DCCBNOAL	A	04
DCCBNOEI	A	01
DCCBNOER	B	80
DCCBNOHO	A	80
DCCBNORV	A	10
DCCBNOTM	A	08
DCCBNPST	A	20
DCCBONRS	B	10
DCCBQNIP	B	40
DCCBRPLY	4	
DCCBRSOO	B	08
DCCBSCRN	0	
DCCBSYCI	8	
DCCBUCME	0	
DCCBUCON	B	02
DCCBWPL	4	

Chapter 153. DCCD Information

DCCD Programming Interface Information

DCCD is a programming interface.

DCCD Heading Information

Common Name:	Dynamic Configuration Change Data
Macro ID:	IOSDDCCD
DSECT Name:	DCCD, DCCDARRY, DCCDEDEV, DCCDEPCU, DCCDECHP
Owning Component:	I/O Supervisor (SC1C3)
Eye-Catcher ID:	DCCD Offset: 0 Length: 4
Storage Attributes:	Subpool: 1 Key: 0
Size:	VARIABLE
Created by:	The IOS Configuration Change Manager.
Pointed to by:	Register 1 points to the address of IOSDDCCD when the Configuration Change Exit receives control.
Serialization:	None
Function:	IOSDDCCD maps the Dynamic Configuration Change Data which contains the I/O components and coupling facility components that were changed as a result of a dynamic configuration change. The DCCD is passed as input to the CONFCHG CHGREQ and CONFCHG CHGCOMPL exits. In addition, fields from the DCCD are placed in the SMF record type 22 subtype 9, which identifies a dynamic configuration change.

DCCD mapping

Table 686. Structure DCCD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DCCD	
0	(0)	X'0'	0	DCCDHDR	"*" Header information
0	(0)	CHARACTER	4	DCCDID	Control block acronym
4	(4)	BITSTRING	1	DCCDVERN	DCCD version number
5	(5)	SIGNED	1	DCCDFUNC	For CONFCHG CHGREQ exit, indicates function to be performed. Otherwise, zero.
6	(6)	BITSTRING	1	DCCDFLGS	Flags
		1...		DCCDSOFT	"X'80'" Software-only configuration change
		EQU X'7F' Reserved			
7	(7)	BITSTRING	1		Reserved
8	(8)	SIGNED	4	DCCDSIZE	Total size of DCCD
12	(C)	SIGNED	4	DCCDSTRT	Offset of first DCCD entry

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Table 686. Structure DCCD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	SIGNED	4	DCCDENTC	Number of entries in the DCCD
20	(14)	CHARACTER	48	DCCDIODF(0)	IODF dataset which contains new configuration
20	(14)	CHARACTER	44	DCCDIODN	IODF dataset name
64	(40)	CHARACTER	4		Reserved
68	(44)	CHARACTER	2	DCCDEDT	ID of new EDT
70	(46)	CHARACTER	2		Reserved
72	(48)	CHARACTER	8	DCCDCFID	Operating system configuration ID for new configuration
80	(50)	SIGNED	4	DCCD#UA	Number of UCBs added
84	(54)	SIGNED	4	DCCD#UD	Number of UCBs deleted
88	(58)	SIGNED	1	DCCDACTF	Activate function requested (activate or recover)
89	(59)	CHARACTER	3		Reserved
89	(59)	X'5C'	0	DCCDHLEN	"*-DCCD" Length of DCCD header

Table 687. Structure DCCDARRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DCCDARRY	DCCD entry array
0	(0)	BITSTRING	32	DCCDE(0)	DCCD entry
0	(0)	SIGNED	4	DCCDEHDR(0)	DCCD entry header
0	(0)	BITSTRING	1	DCCDETYP	DCCD entry type
1	(1)	BITSTRING	1	DCCDEREQ	DCCD entry request type
2	(2)	BITSTRING	1	DCCDEFLG	DCCD entry flags
		1...		DCCDEHDW	"X'80'" Hardware change
		.1..		DCCDESFT	"X'40'" Software change
		..1.		DCCDESTA	"X'20'" Indicates that this entry was created because a static device is being changed to a dynamic device. This entry represents the delete request (DCCDEREQ=DCCDDDEL). There will be another entry which represents the add request.
		...1		DCCDECON	"X'10'" Indicates whether UCB for device is connected to a subchannel. Valid only when DCCDETYP=DCCDDEV or DCCDETYPE=DCCDSDEV, and DCCDEREQ=DCCDADD. Also, valid only for CONFCHG CHGCOMPL exit
		.... 1...		DCCDETHISCSS	"X'08'" Indicates that the DCCD entry represents a change that affects the current CSS.
EQU X'04' Reserved					

Table 687. Structure DCCDARRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		DCCDEAP	"X'02'" The activating partition will lose access to the device because either the device is deleted from the configuration, or the activating partition is being removed from the candidate list of the device. Valid when: DCCDETYP=DCCDDEV or DCCDETYP=DCCDSDEV, and DCCDEREQ=DCCDDDEL The activating partition will lose or gain access to a PCIe function. Valid when: DCCDETYP=DCCDPCIF
		1		DCCDECC	"X'01'" Indicates that this entry was created because the candidate list of the device was changed. When DCCDETYP=DCCDDEV or DCCDETYP=DCCDSDEV, DCCDEREQ=DCCDDDEL and DCCDECC is on, partition(s) were deleted from the device candidate list. When DCCDETYP=DCCDDEV or DCCDETYP=DCCDSDEV, DCCDEREQ=DCCDDADD and DCCDECC is on, partition(s) were added to the device candidate list.
3	(3)	BITSTRING	1	DCCDECSS	Channel Subsystem ID
4	(4)	BITSTRING	28	DCCDENTY	Entry type specific information described below
4	(4)	X'20'	0	DCCDELEN	"*-DCCDARRY" Length of DCCD entry
The following structure provides the mapping for device entries in the DCCD (DCCDETYP = DCCDDEV, DCCDSDEV, or DCCDMDEV).					
4	(4)	SIGNED	2	DCCDDEVN	Device number
6	(6)	CHARACTER	26	DCCDDEVA(0)	Device entry area
6	(6)	BITSTRING	1	DCCDDCMK	Mask of CHPIDs contained in DCCDDCHP that are to be added/deleted from this device. Valid only when DCCDEREQ = DCCDDAC, DCCDDDC, DCCDDDP or DCCDDDP. Otherwise, zero.
7	(7)	BITSTRING	1	DCCDDPMK	Mask of physical control unit numbers in DCCDDPCU that are to be added/deleted from this device. Valid only when DCCDEREQ = DCCDDAP or DCCDDP. Otherwise, zero.
8	(8)	SIGNED	1	DCCDDCHP(8)	Array of CHPIDs that are to be added/deleted from this device. Valid only when DCCDEREQ = DCCDDAC, DCCDDDC, DCCDDDP or DCCDDAP. Otherwise, zero.

Table 687. Structure DCCDARRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	SIGNED	2	DCCDDPCU(8)	Array of physical control unit numbers that are to be added/deleted from this device. Valid only when DCCDEREQ = DCCDDAP or DCCDDDP. Otherwise, zero.
The following structure provides the mapping for device expansion entries. This entry immediately follows entry DCCDSDEV.					
4	(4)	SIGNED	1	DCCDSSID	Subchannel set number
DS CL27 Reserved					
Remap of the device entry area when DCCDEREQ = DCCDDDEL					
6	(6)	BITSTRING	1	DCCDDTYP	Device type. This field is copied from UCBTBYT3
7	(7)	BITSTRING	1	DCCDDTYF	Device type flags
---------- Unit Record Flags					
		1...		DCCDSWTC	"X'80'" If 1, indicates that the device being deleted is a switch device. Valid when DCCDDTYP indicates a device type of Unit Record
---------- DASD Flags					
		1...		DCCDPAVB	"X'80'" If 1, indicates that the device being deleted is a PAV Base device. Valid when DCCDDTYP indicates a device type of DASD
		.1..		DCCDPAVA	"X'40'" If 1, indicates that the device being deleted is a PAV Alias device. Valid when DCCDDTYP indicates a device type of DASD
8	(8)	CHARACTER	24		Reserved for future use
The following structure provides the mapping for control unit entries in the DCCD (DCCDETYP = DCCDPCU or DCCDMP).					
4	(4)	SIGNED	2	DCCDPCUN	Physical control unit number
6	(6)	BITSTRING	1	DCCDFLG2	Flag byte
		1...		DCCDVLD	"X'80'" If 1, indicates DCCDLCU is valid
		.1..		DCCDSQV	"X'40'" If 1, indicates DCCDSBC, DCCDCUBC and DCCDSCNT are valid
7	(7)	BITSTRING	1	DCCDPCMK	Mask of channel path IDs that are to be added/deleted from this CU. Valid only when DCCDEREQ = DCCDPAC or DCCDPDC. Otherwise, zero.
8	(8)	SIGNED	1	DCCDPCHP(8)	Array of CHPIDs that are to be added/deleted from this CU. Valid only when DCCDEREQ = DCCDPAC or DCCDPDC. Otherwise, zero.

Table 687. Structure DCCDARRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	SIGNED	4	DCCDPUA(0)	Represents the range of unit addresses that are to be added to or deleted from the control unit. Valid only when DCCDEREQ = DCCDPMA or DCCDPMD. Otherwise, zero.
16	(10)	CHARACTER	1		Reserved
17	(11)	BITSTRING	1	DCCDPUAC	Count of unit addresses
18	(12)	CHARACTER	1		Reserved
19	(13)	BITSTRING	1	DCCDPSUA	Starting unit address
The following fields are counts required by RMF. They are valid only when DCCDACTF = (DCCDDCM or DCCDIMCU), DCCDETYP=DCCDPCU, DCCDEREQ=DCCDPDC and DCCDSQV equal 1					
20	(14)	SIGNED	4	DCCDSBC	Switch busy count
24	(18)	SIGNED	4	DCCDCUBC	Control unit busy count
28	(1C)	SIGNED	4	DCCDSCNT	Success count
28	(1C)	X'12'	0	DCCDFLTN	"DCCDPUA+2,2" Number of managed CHPIDs. Valid only when DCCDACTF=DCCDACTV and DCCDEREQ=DCCDPMNF
28	(1C)	X'10'	0	DCCDLCU	"DCCDPUA,2" Logical control unit number. Valid only when DCCDACTF=DCCDDCM or DCCDIMCU.
The following structure provides the mapping for CHPID entries in the DCCD (DCCDETYP = DCCDCHP).					
4	(4)	BITSTRING	1	DCCDCCHP	Channel path ID
5	(5)	CHARACTER	3		Reserved
The following structure provides the mapping for logical partition entries in the DCCD (DCCDETYP = DCCDLPAR).					
4	(4)	CHARACTER	8	DCCDLP_NAME	Logical partition name
12	(C)	BITSTRING	1	DCCDLP_MIFID	MIF image identifier
The following structure provides the mapping for PCIe Function entries in the DCCD (DCCDETYP = DCCDPCIF).					
4	(4)	SIGNED	4	DCCDPF_PFID	PCIe-Function ID
The following constant is used to place an identifier in the DCCD (field DCCDID).					
4	(4)	X'C3C3C4'	0	DCCDCBID	"C'DCCD'" DCCD control block acronym
The following constant is used to place the version number in the DCCD (field DCCDVERN).					
....1				DCCDCBVN	"X'01'" DCCD version number
The following constants are used to identify the function requested in DCCDFUNC. These functions are valid only on input to the CONFCHG CHGREQ exit.					
....1				DCCDFPFC	"X'01'" Prepare for configuration change
.... ..1.				DCCDFCCR	"X'02'" Configuration change rejected

Table 687. Structure DCCDARRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
The following constants are used to identify the function in DCCDACTF.					
	1			DCCDACTV	"X'01'" Activate function
	.... .1.1			DCCDRECV	"X'05'" Recover function
	.... .11.			DCCDDCM	"X'06'" DCM change function
	.... .111			DCCDIMCU	"X'07'" Internal IOS request to modify a control unit (e.g. to remove a managed CHPID)
The following constants are used to identify the entry type in DCCDETYP.					
	1			DCCDDEV	"X'01'" Device entry
	.... ..1.			DCCDPCU	"X'02'" Control unit entry
	11			DCCDCHP	"X'03'" CHPID entry
	.... .1..			DCCDMDEV	"X'04'" coupling facility device entry
	.... .1.1			DCCDMP	"X'05'" coupling facility CU entry
	.... .11.			DCCDLPAR	"X'06'" Logical partition entry
	.... .111			DCCDSDEV	"X'07'" Device entry for devices in channel sets other than zero
	.... 1...			DCCDDEVE	"X'08'" Expansion entry for devices in channel sets other than zero
	.... 1..1			DCCDPCIF	"X'09'" PCIe Function Entry
The following constants define DCCDEREQ when DCCDETYP is equal to DCCDDEV, DCCDSDEV or DCCDMDEV.					
	1			DCCDDDEL	"X'01'" Delete device
	.... ..1.			DCCDDADD	"X'02'" Add device
The following constants define DCCDEREQ when DCCDETYP is equal to DCCDDEV or DCCDSDEV.					
	11			DCCDDDC	"X'03'" Modify to remove CHPID(s)
	.... .1..			DCCDDAC	"X'04'" Modify to add CHPID(s)
	.... .1.1			DCCDDDP	"X'05'" Modify to remove CU(s)
	.... .11.			DCCDDAP	"X'06'" Modify to add CU(s)
	.... .111			DCCDDMSC	"X'07'" Modify subchannel characteristics (illegal status detection and interface timeout facility)
	.... 1...			DCCDDMPP	"X'08'" Modify preferred path
The following constants define DCCDEREQ when DCCDETYP is equal to DCCDPCU or DCCDMP.					
	1			DCCDPDEL	"X'01'" Delete control unit
	.... ..1.			DCCDPADD	"X'02'" Add control unit
	11			DCCDPDC	"X'03'" Modify to delete CHPID(s)
	.... .1..			DCCDPAC	"X'04'" Modify to add CHPID(s)
The following constants define DCCDEREQ when DCCDETYP is equal to DCCDPCU.					

Table 687. Structure DCCDARRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1.1		DCCDPMDU	"X'05'" Modify to delete unit address range
		.... .11.		DCCDPMAU	"X'06'" Modify to add unit address range
		.... .111		DCCDPMNF	"X'07'" Modify to change the number of managed CHPIDs
		.... 1...		DCCDPMDF	"X'08'" Modify to delete a managed CHPID
		.... 1..1		DCCDPMAF	"X'09'" Modify to delete a managed CHPID with intent to add a static CHPID
The following constants define DCCDEREQ when DCCDETYP is equal to DCCDCHP.					
		1		DCCDCDEL	"X'01'" Delete CHPID
		.... ..1.		DCCDCADD	"X'02'" Add CHPID
		11		DCCDCDI	"X'03'" Modify to delete logical partition(s) from the CHPID candidate list
		.... .1..		DCCDCAI	"X'04'" Modify to add logical partition(s) to the CHPID candidate list
		.... .1.1		DCCDCCAC	"X'05'" Modify to change the Associated CPC Designation (ACDES) of a CIB CHPID
The following constants define DCCDEREQ when DCCDETYP is equal to DCCDLPAR.					
		1		DCCDLDEL	"X'01'" Delete logical partition
		.... ..1.		DCCDLADD	"X'02'" Add logical partition
The following constants define DCCDEREQ when DCCDETYP is equal to DCCDPCIF					
		1		DCCDFDEL	"X'01'" Delete PCIe Function
		.... ..1.		DCCDFADD	"X'02'" Add PCIe Function
		11		DCCDFDI	"X'03'" Modify to delete access for one or more logical partitions to the specified PCIe Function
		.... .1..		DCCDFAI	"X'04'" Modify to add access for one or more logical partitions to the specified PCIe Function

Table 688. Cross Reference for DCCD

Name	Offset	Hex Tag
DCCD	0	
DCCD#UA	50	
DCCD#UD	54	
DCCDACTF	58	
DCCDACTV	4	1
DCCDARRY	0	
DCCDCADD	4	2
DCCDCAI	4	4

Table 688. Cross Reference for DCCD (continued)

Name	Offset	Hex Tag
DCCDCBID	4	C3C3C4
DCCDCBVN	4	1
DCCDCCAC	4	5
DCCDCCHP	4	
DCCDCDEL	4	1
DCCDCDI	4	3
DCCDCFID	48	
DCCDCHP	4	3
DCCDCUBC	18	
DCCDDAC	4	4
DCCDDADD	4	2
DCCDDAP	4	6
DCCDDCHP	8	
DCCDDCM	4	6
DCCDDCMK	6	
DCCDDDC	4	3
DCCDDDEL	4	1
DCCDDDP	4	5
DCCDDEV	4	1
DCCDDEVA	6	
DCCDDEVE	4	8
DCCDDEVN	4	
DCCDDMPP	4	8
DCCDDMSC	4	7
DCCDDPCU	10	
DCCDDPMK	7	
DCCDDTYF	7	
DCCDDTYP	6	
DCCDE	0	
DCCDEAP	2	2
DCCDECC	2	1
DCCDECON	2	10
DCCDECSS	3	
DCCDEDT	44	
DCCDEFLG	2	
DCCDEHDR	0	
DCCDEHDW	2	80
DCCDELEN	4	20
DCCDENTC	10	
DCCDENTY	4	
DCCDEREQ	1	
DCCDESFT	2	40
DCCDESTA	2	20
DCCDETHISCSS	2	8
DCCDETYP	0	
DCCDFADD	4	2
DCCDFAI	4	4
DCCDFCCR	4	2
DCCDFDEL	4	1

Table 688. Cross Reference for DCCD (continued)

Name	Offset	Hex Tag
DCCDFDI	4	3
DCCDFLGS	6	
DCCDFLG2	6	
DCCDFLTN	1C	12
DCCDFPFC	4	1
DCCDFUNC	5	
DCCDHDR	0	0
DCCDHLEN	59	5C
DCCDID	0	
DCCDIMCU	4	7
DCCDIODF	14	
DCCDIODN	14	
DCCDLADD	4	2
DCCDLCU	1C	10
DCCDLDEL	4	1
DCCDLP_MIFID	C	
DCCDLP_NAME	4	
DCCDLPAR	4	6
DCCDMDEV	4	4
DCCDMP	4	5
DCCDPAC	4	4
DCCDPADD	4	2
DCCDPAVA	7	40
DCCDPAVB	7	80
DCCDPCHP	8	
DCCDPCIF	4	9
DCCDPCMK	7	
DCCDPCU	4	2
DCCDPCUN	4	
DCCDPDC	4	3
DCCDPDEL	4	1
DCCDPF_PFID	4	
DCCDPMAF	4	9
DCCDPMAU	4	6
DCCDPMDF	4	8
DCCDPMDU	4	5
DCCDPMNF	4	7
DCCDPSUA	13	
DCCDPUA	10	
DCCDPUAC	11	
DCCDRECV	4	5
DCCDSBC	14	
DCCDSCNT	1C	
DCCDSDEV	4	7
DCCDSIZE	8	
DCCDSOFT	6	80
DCCDSQV	6	40
DCCDSSID	4	
DCCDSTRT	C	

Table 688. Cross Reference for DCCD (continued)

Name	Offset	Hex Tag
DCCDSWTC	7	80
DCCDVERN	4	
DCCDVLD	6	80

Chapter 154. DCQ Information

DCQ Heading Information

Common Name:	Device Class Queue
Macro ID:	IHADCQ
DSECT Name:	DCQ DCQELMNT
Owning Component:	I/O Supervisor (SC1C3)
Eye-Catcher ID:	DCQ Offset: 0 Length: 4
Storage Attributes:	Subpool: NUCLEUS Key: UCLEUS
Size:	Header = 202 bytes Elements = 28 bytes each
Created by:	IOS SYSGEN
Pointed to by:	CVTDCQA of the CVT data area
Serialization:	None
Function:	The DCQ is used to locate the UCB's for devices. They are grouped by device class with one DCQ element per device

DCQ mapping

Table 689. Structure DCQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	20	DCQ	
0	(0)	CHARACTER	20	DCQHEAD	Header
0	(0)	CHARACTER	4	DCQNAME	Control block acronym
4	(4)	SIGNED	2	DCQLNGTH	Length of each of the DCQ entries
6	(6)	SIGNED	2	DCQCOUNT	Number of elements
8	(8)	ADDRESS	4	DCQFIRST	Address of first DCQELMNT
12	(C)	SIGNED	4	DCQDSTCT	Count of entries required in the device statistics table
16	(10)	SIGNED	4	DCQUCBNO	Total number of UCBs for the I/O configuration

Table 690. Structure DCQELMNT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	28	DCQELMNT	Element of DCQ
0	(0)	ADDRESS	4	DCQCHAIN	Address of next DCQELMNT or zero if end of chain
4	(4)	BITSTRING	1	DCQDEVCL	Existing device class hex ID. Same contents as UCBTBYT3.
5	(5)	BITSTRING	1	DCQFLG1	Flags
6	(6)	SIGNED	2	DCQUCBCT	Number of UCB's within device class. If no UCB's exist for this class, then field is 0.

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Table 690. Structure DCQELMNT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	ADDRESS	4	DCQUCBAD	Address of first UCB for this class. If no UCB's exist for this class, then 0. All UCB addresses point to common segment of UCB.
12	(C)	CHARACTER	8	DCQDEVNM	Device class name in EBCDIC.
20	(14)	CHARACTER	8	*	Reserved

Table 691. Constants for DCQ

Len	Type	Value	Name	Description
4	CHARACTER	DCQ	DCQCBID	Control block ID

Table 692. Cross Reference for DCQ

Name	Offset	Hex Tag
DCQ	0	
DCQCHAIN	0	
DCQCOUNT	6	
DCQDEVCL	4	
DCQDEVNM	C	
DCQDSTCT	C	
DCQELMNT	0	
DCQFIRST	8	
DCQFLG1	5	
DCQHEAD	0	
DCQLNGTH	4	
DCQNAME	0	
DCQUCBAD	8	
DCQUCBCT	6	
DCQUCBNO	10	

Chapter 155. DDRCOM Information

DDRCOM Heading Information

Common Name:	IOS Dynamic Device Reconfiguration Communication Table
Macro ID:	IHADDR
DSECT Name:	DDRCOM
Owning Component:	Dynamic Device Reconfiguration (BB1CS)
Eye-Catcher ID:	DDR Offset: 0 Length: 4
Storage Attributes:	Main Storage: YES Virtual Storage: N/A Auxiliary Storage: N/A Subpool: 245 Key: 0 Data Space: N/A Residency: N/A
Size:	236 bytes
Created by:	IGF2503D - operator requested SWAP, IGE0660A - system initiated SWAP.
Pointed to by:	CVTTRPOS field of the CVT (points to the queue of DDRCOMs for tapes in the repositioning phase of swap. CVTTPUR field of the CVT (points to the queue of DDRCOMs for unit record devices, and tapes which are in the first phase of a SWAP (prior to the reposition phase). CVTDPUR field of the CVT (points to the queue of DDRCOMs for DASD swaps. DDRNXT field of the DDRCOM data area.
Serialization:	Queued and dequeued while holding local, CMS locks.
Function:	Communicate between DDR modules. Queuing control block for DDR requests.

DDRCOM mapping

Table 693. Structure DDRCOM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DDRCOM	
0	(0)	SIGNED	4	DDRID	DDRCOM INDICATOR
4	(4)	SIGNED	4	DDRNXT	NEXT DDRCOM
8	(8)	BITSTRING	4	DDRCNTRL(0)	CONTROL DATA
8	(8)	BITSTRING	1	DDRSRC	SOURCE OF DDR REQUEST
		1...		DDROPER	"X'80'" OPERATOR REQUEST
		.1..		DDRSYS	"X'40'" SYSTEM REQUEST
		..1.		DDRPAGE	"X'20'" PAGE I/O ERROR REQUEST
9	(9)	BITSTRING	1	DDRSTAT	REQUEST STATUS
		1...		DDRACTV	"X'80'" REQUEST IS EXECUTING
		.1..		DDRQUE	"X'40'" REQUEST IS QUEUED
		..1.		DDRHAMA	"X'20'" PERMANENTLY INACTIVE REQUEST

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Table 693. Structure DDRCOM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		DDRRMV	"X'10'" REMOVE INVALID REQUEST
		.... 1...		DDRPRG	"X'08'" TERMINATE REQUEST
		.... .1..		DDRSIRB	"X'04'" REQUEST IS EXECUTED BY SIRB IN IGE0660A
		.... ..1.		DDRBYPTM	"X'02'" SYSTEM SWAP AND 'FROM' DEVICE INELIBIBLE FOR SWAP - BYPASS ISSUING THE IGF512I ERROR TERMINATION MESSAGE
10	(A)	BITSTRING	2	DDRDCHAR(0)	DEVICE CHARACTERISTICES
10	(A)	BITSTRING	1	DDRMDR	MDR RECORD ID
11	(B)	BITSTRING	1	DDRDSTAT	DEVICE TYPE AND FLAGS
		1...		DDRBUFL	"X'80'" BUFFERER LOG
		.1..		DDRDA	"X'40'" DIRECT ACCESS DEVICE
		..1.		DDRMT	"X'20'" MAGNETIC TAPE DEVICE
		...1		DDRUR	"X'10'" UNIT RECORD DEVICE
		.... 1...		DDRRCYLE	"X'08'" A MAGNETIC TAPE DEVICE SWAP THAT IS BEING RECYCLED BECAUSE OF AN I/O ERROR DURING REPOSITIONING
		.... .1..		DDRTRPOS	"X'04'" A MAGNETIC TAPE DEVICE SWAP THAT IS IN THE REPOSITIONING PHASE OF THE SWAP
		.... ..1.		DDRMTEND	"X'02'" A MAGNETIC TAPE DEVICE SWAP THAT HAS COMPLETED THE REPOSITIONING PHASE
12	(C)	BITSTRING	4	DDRUIOSB	USER IOSB ADDRESS
16	(10)	BITSTRING	2	DDRUASID	USER ADDRESS SPACE
18	(12)	BITSTRING	1	DDRFSSID	FROM device subchannel set
19	(13)	BITSTRING	1	DDRTSSID	TO device subchannel set
20	(14)	BITSTRING	4	DDRFMNAM(0)	"FROM" UCB name in 4 bytes.
20	(14)	BITSTRING	1		High order byte UCB nane. .
21	(15)	BITSTRING	3	DDRFMCUA	"FROM" UCB name in 3 bytes.
24	(18)	BITSTRING	4	DDRTONAM(0)	"TO" UCB name in 4 bytes.
24	(18)	BITSTRING	1		High order byte UCB name.
25	(19)	BITSTRING	3	DDRTOCUA	"TO" UCB name in 3 bytes.
28	(1C)	BITSTRING	4	DDRTOUCB	TO UCB ADDRESS
32	(20)	BITSTRING	4	DDRFMUCB	FROM UCB ADDRESS
36	(24)	BITSTRING	1	DDRROWN	REQUEST RESOURCES
		1...		DDRRTENQ	"X'80'" TAPE ALLOC RESOURCE HELD
		.1..		DDRRUENQ	"X'40'" UNIT RECORD ALLOC RESOURCE HELD
		..1.		DDRRDENQ	"X'20'" DISK ALLOC RESOURCE HELD
		...1		DDRRYENQ	"X'10'" DYNAMIC RESOURCE HELD
		.... .1..		DDRDEN	"X'04'" A MAGNETIC TAPE DEVICE SWAP IN WHICH THE TAPES ARE COMPATIBLE BUT NOT IDENTICAL IN THE DENSITIES THAT THEY SUPPORT
		.... ..1.		DDRJES3L	"X'02'" IGFDL1 USING JES3 UCB LIST Y02BKCI
		1		DDRFIRST	"X'01'" IGFDL1 RECURSIVE BIT/FIRST TIME SWITCH
37	(25)	BITSTRING	1	DDRLEVEL	IOS DDR LEVEL FROM IOSLEVEL
38	(26)	BITSTRING	2	DDRASID	DDR ADDRESS SPACE

Table 693. Structure DDRCOM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	BITSTRING	4	DDRUDCB	USER DCB ADDRESS OZ11029
44	(2C)	BITSTRING	4	DDRUDEB	USER DEB ADDRESS OZ11029
48	(30)	BITSTRING	4	DDRUIOB	USER IOB ADDRESS
52	(34)	BITSTRING	4	DDRUTCB	USER TCB ADDRESS
56	(38)	BITSTRING	4	DDRUASCB	USER ASCB ADDRESS
60	(3C)	BITSTRING	4	DDRTEST	TESTING FIELD
64	(40)	BITSTRING	2	DDRTER(0)	TERMINATION PARM FIELD
64	(40)	BITSTRING	1	DDRTER1	TERMINATION REASON CODE
		1		DDRTNF	"X'01'" NO USER FOUND
		.... ..1.		DDRTEP	"X'02'" ERP IN PROGRESS
		11		DDRTOC	"X'03'" OPEN/CLOSE/EOV IN PROGRESS
		.... .1..		DDRTBR	"X'04'" BLOCKCOUNT UNRELIABLE
		.... .1.1		DDRTCO	"X'05'" OPERATOR CANCELLED
		.... .11.		DDRTIU	"X'06'" INVALID USER EXIT
		.... .111		DDRTCE	"X'07'" CATASTROPHIC ERROR
		.... 1...		DDRTID	"X'08'" INVALID DEVICE
		.... 1..1		DDRTCU	"X'09'" CANCELLED BY USER
		.... 1.1.		DDRTJE	"X'0A'" JES3 ERROR Y02BKCI
		.... 1.11		DDRTEXC	"X'0B'" EXIT CANCELLED SWAP BUT DID NOT SUPPLY MESSAGE
		.... 11..		DDRTAIP	"X'0C'" ACTIVATE IN PROGRESS
		.... 11.1		DDRTREP	"X'0D'" REPOSITIONING ERROR IN TAPE LIBRARY
		.... 111.		DDRTRD	"X'0E'" READ ERROR IN TAPE LIBRARY
		 1111		DDRTRR	"X'0F'" READ OR REPOSITIONING ERROR IN TAPE LIBRARY
		...1		DDRTLF	"X'10'" FAILURE DURING MOUNT, DEMOUNT, OR VOLUME VERIFICATION in TAPE LIBRARY ENVIRONMENT
		...1 ...1		DDRTSUF	"X'11'" UCB SWAP FAILED
		1111 1111		DDRTMSG	"X'FF'" TEXT FOR THE TERMINATION REASON IS SUPPLIED IN DDEMSG (IN IGFDDE)
65	(41)	BITSTRING	1	DDRTER2	TERMINATION FIELD - Further defines the failure reason code defined in DDRTER1. The following DDRTER1 values set the DDRTER2 field: . DDRTER1=DDRTCE (Catastrophic Error) . DDRTER1=DDRTSUF (UCB Swap Failed)
		....		DDRTNA	"X'00'" No reason provided for this failure
		1		DDRTCE1	"X'01'" DDRTER1=DDRTCE - Error in DDR causing Estae to get control (IGFDE1).
		.... ..1.		DDRTCE2	"X'02'" DDRTER1=DDRTCE - DDR failed to process the request (IGFDI0).
		11		DDRTCE3	"X'03'" DDRTER1=DDRTCE - Internal error. Logging request was not valid (IGFDR0).

Table 693. Structure DDRCOM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		DDRTCE4	"X'04'" DDRTER1=DDRTCE - I/O error during rewind of TO device (IGFDV0).
		.... .1.1		DDRTCE5	"X'05'" DDRTER1=DDRTCE - Device type for swap was not valid (IGFDV0).
		.... .11.		DDRTCE6	"X'06'" DDRTER1=DDRTCE - Internal error. Validation request was not valid (IGFDV1).
		.... .111		DDRTCE7	"X'07'" DDRTER1=DDRTCE - Internal error. Page fix of IGFDW0 was not successful (IGFDW0).
		.... 1...		DDRTCE8	"X'08'" DDRTER1=DDRTCE - Internal error. MIH resource could not be obtained (IGFDW0).
66	(42)	BITSTRING	2	DDRINV(0)	INVALID FLAGS
66	(42)	BITSTRING	1	DDRINV1	INVALID REASON CODE
		1		DDRIMP	"X'01'" MOUNT PENDING
		.... ..1.		DDRIUF	"X'02'" UNIT REFERENCE INVALID
		11		DDRINS	"X'03'" UNSUPPORTED USE
		.... .1..		DDRIIN	"X'04'" INCOMPATIBLE
		.... .1.1		DDRINO	"X'05'" NOT OPERATIONAL
		.... .11.		DDRINA	"X'06'" NOT ALLOCATED
		.... .111		DDRIDT	"X'07'" INVALID DEVICE TYPE
		.... 1...		DDRIJ3	"X'08'" JES3 INCOMPATIBLE Y02BKCI
		.... 1..1		DDRIONL	"X'09'" OFFLINE DEVICE CANNOT BE VARIED ONLINE
		.... 1.1.		DDRIDYST	"X'0A'" DEVICES DYNAMIC/STATIC INCOMPATIBLE
		.... 1.11		DDRIVOLI	"X'0B'" DASD TO DEVICE DOES NOT HAVE MATCHING VOLSER
		.... 11..		DDRIIOA	"X'0C'" DASD FROM DEVICE HAS NOT BEEN QUIESCED VIA IOACTION COMMAND
		.... 11.1		DDRIOPD	"X'0D'" CANNOT SWAP TO AN ONLINE PERMANENTLY RESIDENT DASD DEVICE
		.... 111.		DDRIPAG	"X'0E'" CANNOT SWAP A DEVICE WITH AN ACTIVE PAGE DATASET
		 1111		DDRIDIGT	"X'0F'" CANNOT SWAP A 3-DIGIT UCB TO A 4-DIGIT UCB OR VICE VERSA
		...1		DDRIHSWAP	"X'10'" The device is blocked from performing a DDR swap by Hyperswap.
		...1 ...1		DDRIJ3USE	"X'11'" The JES3 device is in use
		...1 ..1.		DDRIJ3OFL	"X'12'" The JES3 device is offline when it is expected to be online
		...1 ..11		DDRIJ3ONL	"X'13'" The JES3 device is online when it is expected to be offline

Table 693. Structure DDRCOM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1 .1..		DDRIUNAVL	"X'14'" The device is marked as unavailable
		...1 .1.1		DDRIDVINV	"X'15'" The last 4 digits of the 5 digit devices do not match
67	(43)	BITSTRING	1	DDRINV2	VALIDATE'S PARM FIELD
		1		DDRVFM	"X'01'" VALIDATE FROM DEVICE
		.... ..1.		DDRVCM	"X'02'" VALIDATE TO DEVICE
		11		DDRVUS	"X'03'" USER IS AVAILABLE
68	(44)	BITSTRING	2	DDRAPP(0)	APPENDAGE PARM FIELDS
68	(44)	BITSTRING	1	DDRAPP1	APPENDAGE PARM LIST 1
69	(45)	BITSTRING	1	DDRAPP2	APPENDAGE PARM LIST 2
70	(46)	BITSTRING	2	DDRIBUFL	I/O BUFFER LENGTH
72	(48)	BITSTRING	4	DDRIBUF	I/O BUFFER ADDRESS
76	(4C)	BITSTRING	4	DDRCOUNT	I/O OPERATION REPEAT COUNT
80	(50)	BITSTRING	2	DDRIOF(0)	I/O PARM FLAGS
80	(50)	BITSTRING	1	DDRIOF1	I/O PARM FLAGS FIELD 1
		.... ..1.		DDRREAD	"X'02'" ISSUE A READ COMMAND
		 1111		DDRRUN	"X'0F'" ISSUE A REWIND AND RELOAD COMMAND
		.... 11..		DDRRDBK	"X'0C'" ISSUE A READ BACKWARDS COMMAND
		1.1. .1..		DDRXA4	"X'A4'" ISSUE A READ AND RESET BUFFERED LOG COMMAND
		..1. 1111		DDRBSF	"X'2F'" ISSUE A BACKWARD SPACE FILE COMMAND
		..11 1111		DDRFSF	"X'3F'" ISSUE A FORWARD SPACE FILE COMMAND
		11		DDRNOP	"X'03'" ISSUE A NOP COMMAND
		.... .1..		DDRSNS	"X'04'" ISSUE A SENSE COMMAND
		1		DDRLOAD	"X'01'" LIBRARY MOUNT SUBCOMMAND OF PERFORM LIBRARY FUNCTION
81	(51)	BITSTRING	1	DDRIOF2	I/O PARM FLAGS FIELD 2
		1...		DDRWHICH	"X'80'" I/O TO BE PERFORMED
		.1..		DDRITAKE	"X'40'" GET/RELEASE CONTROL
		..1.		DDRILAB	"X'20'" LABEL PROCESSING
		...1		DDRIMNT	"X'10'" MOUNT REQUEST
		.... 1...		DDRICNT	"X'08'" COUNT FIELD INDICATOR
		.... .1..		DDRTCNTL	"X'04'" NOP BEING USED TO TAKE CONTROL OF DEVICE
		.... ..1.		DDR@WAIT	"X'02'" IGFDM1 at SVC 1 waiting on STARTIO.
82	(52)	BITSTRING	2	DDRMSG(0)	MESSAGE PARM FLAGS
82	(52)	BITSTRING	1	DDRMSGOP	OPERATOR RESPONSE
		1		DDRWTOR	"X'01'" ISSUE WTOR MESSAGE
		.... ..1.		DDRYES	"X'02'" YES REPLY
		11		DDRNO	"X'03'" NO REPLY
		.... .1..		DDRCUA	"X'04'" CUA REPLY
83	(53)	BITSTRING	1	DDRMSGCD	MESSAGE NUMBER CODE
		1		DDRM500I	"X'01'" ISSUE IGF500I MESSAGE
		.... ..1.		DDRM500D	"X'02'" ISSUE IGF500D MESSAGE
		11		DDRM502E	"X'03'" ISSUE IGF502E MESSAGE
		.... .1..		DDRM503I	"X'04'" ISSUE IGF503I MESSAGE
		.... .1.1		DDRM505I	"X'05'" ISSUE IGF505I MESSAGE

Table 693. Structure DDRCOM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .11.		DDRM509I	"X'06'" ISSUE IGF509I MESSAGE
		.... .111		DDRM509D	"X'07'" ISSUE IGF509D MESSAGE
		.... 1...		DDRM511A	"X'08'" ISSUE IGF511A MESSAGE
		.... 1..1		DDRM512I	"X'09'" ISSUE IGF512I MESSAGE
		.... 1.1.		DDRM513I	"X'0A'" ISSUE IGF513I MESSAGE
		.... 1.11		DDRM515I	"X'0B'" ISSUE IGF515I MESSAGE
		.... 11..		DDRM514I	"X'0C'" ISSUE IGF514I MESSAGE
		.... 11.1		DDRM501I	"X'0D'" ISSUE IGF501I MESSAGE
		.... 111.		DDRM516I	"X'0E'" ISSUE IGF516I MESSAGE
		 1111		DDRM517I	"X'0F'" ISSUE IGF517I MESSAGE
		...1		DDRM518I	"X'10'" ISSUE IGF518I MESSAGE
		...1 ...1		DDRM519I	"X'11'" ISSUE IGF519I MESSAGE
		...1 ..1.		DDRM150I	"X'12'" ISSUE IGF1500I MESSAGE
		...1 ..11		DDRM1505	"X'13'" ISSUE IGF1505I MESSAGE
		...1 .1..		DDRM1509	"X'14'" ISSUE IGF1509I MESSAGE
		...1 .1.1		DDRM1511	"X'15'" ISSUE IGF1511A MESSAGE
		...1 .11.		DDRM1512	"X'16'" ISSUE IGF1512I MESSAGE
		...1 .111		DDRM1513	"X'17'" ISSUE IGF1513I MESSAGE
84	(54)	BITSTRING	8	DDRMSGP(0)	MESSAGE CODES
84	(54)	BITSTRING	1	DDRMSGPN	NUMBER OF MESSAGE CODES
85	(55)	BITSTRING	7	DDRMSGPC	(0-7) MESSAGE CODES
		1		DDRPNO	"X'01'" COMPRESS FIELD
		.... ..1.		DDRPFM	"X'02'" FROM CUA
		11		DDRPTO	"X'03'" TO CUA
		.... .1..		DDRPVL	"X'04'" VOLUME SERIAL NUMBER
		.... .1.1		DDRPLT	"X'05'" LABEL TYPE
		.... .11.		DDRPSN	"X'06'" VOLUME SEQUENCE NUMBER
		.... .111		DDRPTM	"X'07'" TERMINATION CODE
		.... 1...		DDRLIB	"X'08'" OBTAIN LIBRARY NAME OF TAPE DRIVE
		.... 1..1		DDRPIC	"X'09'" INVALID CONDITION CODE
		.... 1.1.		DDRPDV	"X'0A'" DEVICE-CHARACTER STRING
		.... 1.11		DDRPRC	"X'0B'" REASON CODE
92	(5C)	BITSTRING	1	DDRLABEL	TAPE FROM LABEL TYPE
		1...		DDRLAL	"X'80'" ANSI LABEL
		.1..		DDRLBLP	"X'40'" BYPASS LABEL PROCESSING
		..1.		DDRLNL	"X'20'" NO LABEL
		...1		DDRLNSL	"X'10'" NON-STANDARD LABEL
		.... 1...		DDRLSD	"X'08'" STANDARD LABEL
		1		DDRLNOP	"X'01'" NO POSITIONING AND TAPE READING
93	(5D)	BITSTRING	1	DDRRETRY	IGFDM0 RETRY COUNT
94	(5E)	BITSTRING	2	DDRREC(0)	RECORDER PARM FIELDS
94	(5E)	BITSTRING	1	DDRREC1	RECORDER FLAGS
		1		DDRRECON	"X'01'" WRITE DDR RECORD
		.... ..1.		DDRR91	"X'02'" ISSUE SVC 91
		11		DDRRBLF	"X'03'" BUFFERED LOG TO BE READ/RESET AND RECORDED
95	(5F)	BITSTRING	1	DDRREC2	RECORDER PARM LIST
		1...		DDRRFMTO	"X'80'" (0=TO,1=FROM) RECORD
96	(60)	BITSTRING	4	DDRUSER(0)	USER FIELDS YM04069
96	(60)	BITSTRING	1	DDRUMODE	USER MODE YM04069

Table 693. Structure DDRCOM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
97	(61)	BITSTRING	3	DDRURESV	RESERVED YM04069
100	(64)	BITSTRING	4	DDRUBCNT	USER BLOCK COUNT YM04069
104	(68)	BITSTRING	4	DDRSSOB	ADDRESS OF SSOB Y02BKCI
108	(6C)	ADDRESS	4	DDREXITI	ADDRESS OF DDREXIT INFORMATION CONTROL BLOCK
112	(70)	BITSTRING	4	DDRWTOWD(0)	WTO ID WORD
112	(70)	BITSTRING	1	DDRWTO1	FIRST BYTE OF WTO ID WORD, USED BY DDR WHEN DOING CS WITH UCBWTOID
113	(71)	BITSTRING	3	DDRWTOID	WTO ID (SAVED FOR MESSAGES WHICH MUST BE DOM'D
116	(74)	BITSTRING	1	DDRRSV	RESERVED
117	(75)	BITSTRING	1	DDRFLAGS	MISC FLAGS
		1...		DDRINTER	"X'80'" INTERCEPT INDICATOR
		.1..		DDRIOA	"X'40'" 'FROM' DEVICE QUIESCED BY IOACTION
		..1.		DDRPDASV	"X'20'" PDASoption was found on the SWAP command.
		...1		DDRFXBND	"X'10'" UCBXNBND status for FROM UCB
		.... 1...		DDRTXBND	"X'08'" UCBXNBND status for TO UCB
		.... .1..		DDR2UCBS	"X'04'" Copy of the DDP2UCBS bit which indicates that the DDR exit requires that both the FROM and TO UCBs be controlled by DDR and provided to the exit on all calls.
		.... ..1.		DDRUNSER	"X'02'" With DDR2UCBS set, this bit indicates that DDR serialized the TO device and depending on whether or not the swap was successful, either the FROM or TO device needs to be unserialized following the swap process.
		1		DDRVRYOF	"X'01'" With DDR2UCBs set, this bit indicates that DDR varied the TO device online and depending on whether or not the swap was successful, either the FROM or TO device needs to be varied offline following the swap process.
118	(76)	BITSTRING	2	DDRERRCD	ERROR CODE FOR CURRENTLY MOUNTED VOLUME
120	(78)	BITSTRING	4	DDRMBTKN	Address of message buffer token for Console Services message buffer
124	(7C)	BITSTRING	4	DDRFTPTS(0)	DDR FOOTPRINTS
124	(7C)	BITSTRING	1	DDRFTPT1	FIRST FOOTPRINT BYTE
125	(7D)	BITSTRING	1	DDRFTPT2	SECOND FOOTPRINT BYTE
		1...		DDRNOJ3	"X'80'" JES3 is either not up or does not exist for this system.

Table 693. Structure DDRCOM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	EQU X'7F'	Reserved			
126	(7E)	BITSTRING	1	DDRFTPT3	THIRD FOOTPRINT BYTE
		1...		DDRDW0IN	"X'80'" DW0 RECEIVED CONTROL
		.1..		DDRIOSIN	"X'40'" IOSVSWAP PROCESSING IS INITIATED
		..1.		DDRIOSOT	"X'20'" IOSVSWAP IS COMPLETE (INCLUDING ALL RETRIES OF IOSVSWAP)
		...1		DDRJES3C	"X'10'" THE FINAL SSI CALL TO JES3 SIGNALING SWAP COMPLETE HAS BEEN ISSUED
		.... 1...		DDRSCHED	"X'08'" THE SRB ASSOCIATED WITH THE I/O REQUEST HAS BEEN SCHEDULED.
		.... .1..		DDRUSRC0	"X'04'" UCB swap (IOSVSWAP) was successful
		.... ..1.		DDRIGDEU	"X'02'" IGDE information has been updated (DDR called IEFAB4CD)
		1		DDRJES3D	"X'01'" The final SSI call to JES3 signaling swap complete has been deferred and needs to be completed.
127	(7F)	BITSTRING	1	DDRFTPT4	FOURTH FOOTPRINT BYTE
128	(80)	BITSTRING	16	DDRSERVE	FIELD RESERVED FOR SERVICEABILITY USE
144	(90)	SIGNED	4	DDRCONID	Four byte console ID.
148	(94)	CHARACTER	8	DDRCART	Command And Response Token.
156	(9C)	CHARACTER	4	DDRLTKN	TOKEN RETURNED BY LACS SERVICE
160	(A0)	CHARACTER	8	DDRFMPT	FROM UCB Pin Token
168	(A8)	CHARACTER	8	DDRTOPT	TO UCB Pin Token
176	(B0)	BITSTRING	4	DDRORIGF	ADDR. OF PRE-SWAP 'FROM' UCB
180	(B4)	BITSTRING	4	DDRORIGT	ADDR. OF PRE-SWAP 'TO' UCB
184	(B8)	BITSTRING	4	DDRASUCB	ADDR. OF ALLOCATION-SERIALIZED UCB
188	(BC)	BITSTRING	4	DDRASIM	ADDRESS OF ASIM USED FOR IOACTION PROCESSING FOR SHARED DASD
192	(C0)	BITSTRING	2	DDRASIML	ASIM LENGTH
194	(C2)	CHARACTER	1	DDRPDAS	Value of PDASoption (when DDRFLAGS.DDRPDASV is on)
195	(C3)	BITSTRING	1		RESERVED
196	(C4)	BITSTRING	40	DDREXPAN	RESERVED FOR EXPANSION
236	(EC)	SIGNED	4	DDRCEND(0)	END DDRCOM ON WORD BOUNDARY. SRB FOLLOWS IN GETMAIN AREA.

Table 694. Cross Reference for DDRCOM

Name	Offset	Hex Tag
DDR@WAIT	51	2
DDRACTV	9	80
DDRAPP	44	

Table 694. Cross Reference for DDRCOM (continued)

Name	Offset	Hex Tag
DDRAPP1	44	
DDRAPP2	45	
DDRASID	26	
DDRASIM	BC	
DDRASIML	C0	
DDRASUCB	B8	
DDRBSF	50	2F
DDRBUFL	B	80
DDRBYPTM	9	2
DDRCART	94	
DDRCEND	EC	
DDRCNTRL	8	
DDRCOM	0	
DDRCONID	90	
DDRCOUNT	4C	
DDRCUA	52	4
DDRDA	B	40
DDRDCHAR	A	
DDRDEN	24	4
DDRDSTAT	B	
DDRDW0IN	7E	80
DDRERRCD	76	
DDREXITI	6C	
DDREXPAN	C4	
DDRFIRST	24	1
DDRFLAGS	75	
DDRFMCUA	15	
DDRFMNAM	14	
DDRFMPT	A0	
DDRFMUCB	20	
DDRFSF	50	3F
DDRFSSID	12	
DDRFTPTS	7C	
DDRFTPT1	7C	
DDRFTPT2	7D	
DDRFTPT3	7E	
DDRFTPT4	7F	
DDRFXBND	75	10
DDRHAMA	9	20
DDRIBUF	48	
DDRIBUFL	46	
DDRICNT	51	8
DDRID	0	
DDRIDIGT	42	F
DDRIDT	42	7
DDRIDVINV	42	15
DDRIDYST	42	A
DDRIGDEU	7E	2
DDRIHSWAP	42	10

Table 694. Cross Reference for DDRCOM (continued)

Name	Offset	Hex Tag
DDRIIN	42	4
DDRIIOA	42	C
DDRIJ3	42	8
DDRIJ3OFL	42	12
DDRIJ3ONL	42	13
DDRIJ3USE	42	11
DDRILAB	51	20
DDRIMNT	51	10
DDRIMP	42	1
DDRINA	42	6
DDRINO	42	5
DDRINS	42	3
DDRINTER	75	80
DDRINV	42	
DDRINV1	42	
DDRINV2	43	
DDRIOA	75	40
DDRIOF	50	
DDRIOF1	50	
DDRIOF2	51	
DDRIONL	42	9
DDRIOPD	42	D
DDRIOSIN	7E	40
DDRIOSOT	7E	20
DDRIPAG	42	E
DDRITAKE	51	40
DDRIUF	42	2
DDRIUNAVL	42	14
DDRIVOLI	42	B
DDRJES3C	7E	10
DDRJES3D	7E	1
DDRJES3L	24	2
DDRLABEL	5C	
DDRLAL	5C	80
DDRLBLP	5C	40
DDRLEVEL	25	
DDRLIB	55	8
DDRLNL	5C	20
DDRLNOP	5C	1
DDRLNSL	5C	10
DDRLOAD	50	1
DDRLSD	5C	8
DDRLTKN	9C	
DDRMBTKN	78	
DDRMDR	A	
DDRMSG	52	
DDRMSGCD	53	
DDRMSGOP	52	
DDRMSGP	54	

Table 694. Cross Reference for DDRCOM (continued)

Name	Offset	Hex Tag
DDRMSGPC	55	
DDRMSGPN	54	
DDRMT	B	20
DDRMTEND	B	2
DDRM150I	53	12
DDRM1505	53	13
DDRM1509	53	14
DDRM1511	53	15
DDRM1512	53	16
DDRM1513	53	17
DDRM500D	53	2
DDRM500I	53	1
DDRM501I	53	D
DDRM502E	53	3
DDRM503I	53	4
DDRM505I	53	5
DDRM509D	53	7
DDRM509I	53	6
DDRM511A	53	8
DDRM512I	53	9
DDRM513I	53	A
DDRM514I	53	C
DDRM515I	53	B
DDRM516I	53	E
DDRM517I	53	F
DDRM518I	53	10
DDRM519I	53	11
DDRNO	52	3
DDRNOJ3	7D	80
DDRNOP	50	3
DDRNXT	4	
DDROPER	8	80
DDRORIGF	B0	
DDRORIGT	B4	
DDRPAGE	8	20
DDRPDAS	C2	
DDRPDASV	75	20
DDRPDV	55	A
DDRPFM	55	2
DDRPIC	55	9
DDRPLT	55	5
DDRPNO	55	1
DDRPRC	55	B
DDRPRG	9	8
DDRPSN	55	6
DDRPTM	55	7
DDRPTO	55	3
DDRPVL	55	4
DDRQUE	9	40

Table 694. Cross Reference for DDRCOM (continued)

Name	Offset	Hex Tag
DDRRBLF	5E	3
DDRRCYLE	B	8
DDRRDBK	50	C
DDRRDENQ	24	20
DDRREAD	50	2
DDRREC	5E	
DDRRECON	5E	1
DDRREC1	5E	
DDRREC2	5F	
DDRRETRY	5D	
DDRRFMTO	5F	80
DDRRMV	9	10
DDRROWN	24	
DDRRSV	74	
DDRRTENQ	24	80
DDRRUENQ	24	40
DDRRUN	50	F
DDRRYENQ	24	10
DDRR91	5E	2
DDRSCHED	7E	8
DDRSERVE	80	
DDRSIRB	9	4
DDRSNS	50	4
DDRSRC	8	
DDRSSOB	68	
DDRSTAT	9	
DDRSYS	8	40
DDRTAIP	40	C
DDRTBR	40	4
DDRTCE	40	7
DDRTCE1	41	1
DDRTCE2	41	2
DDRTCE3	41	3
DDRTCE4	41	4
DDRTCE5	41	5
DDRTCE6	41	6
DDRTCE7	41	7
DDRTCE8	41	8
DDRTCNTL	51	4
DDRTCO	40	5
DDRTCU	40	9
DDRTEP	40	2
DDRTER	40	
DDRTER1	40	
DDRTER2	41	
DDRTEST	3C	
DDRTEXC	40	B
DDRTID	40	8
DDRTIU	40	6

Table 694. Cross Reference for DDRCOM (continued)

Name	Offset	Hex Tag
DDRTJE	40	A
DDRTLF	40	10
DDRTMSG	40	FF
DDRTNA	41	0
DDRTNF	40	1
DDRTOC	40	3
DDRTOCUA	19	
DDRTONAM	18	
DDRTOPT	A8	
DDRTOUCB	1C	
DDRTRD	40	E
DDRTREP	40	D
DDRTRPOS	B	4
DDRTRR	40	F
DDRTSSID	13	
DDRTSUF	40	11
DDRTXBND	75	8
DDRUASCB	38	
DDRUASID	10	
DDRUBCNT	64	
DDRUDCB	28	
DDRUDEB	2C	
DDRUIOB	30	
DDRUIOSB	C	
DDRUMODE	60	
DDRUNSER	75	2
DDRUR	B	10
DDRURESV	61	
DDRUSER	60	
DDRUSRC0	7E	4
DDRUTCB	34	
DDRVCM	43	2
DDRVFM	43	1
DDRVRYOF	75	1
DDRVUS	43	3
DDRWHICH	51	80
DDRWTOID	71	
DDRWTOR	52	1
DDRWTOWD	70	
DDRWTO1	70	
DDRXA4	50	A4
DDRYES	52	2
DDR2UCBS	75	4

Chapter 156. DDT Information

DDT Heading Information

Common Name:	IECDDT Device Descriptor Table Mapping
Macro ID:	IECDDT
DSECT Name:	DDT
Owning Component:	I/O Supervisor (SC1C3)
Eye-Catcher ID:	DDT Offset: 0 Length: 4
Storage Attributes:	Subpool: 245 Key: 0 Data Space: N/A Residency: N/A
Size:	76-bytes
Created by:	N/A
Pointed to by:	The UCBDDT field of the UCB data area
Serialization:	None
Function:	Maps the fields of a DDT pointed to by a UCB Notes: The DDT is a logical extension of the UCB. It is a variable length list of entries that correspond to device dependent routines or tables which reside in either the Nucleus or Link Pack Area (LPA). A Device Descriptor Table (DDT) will be pointed to by all UCBs that describe the same device type.

DDT mapping

Table 695. Structure DDT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	76	DDT	
0	(0)	CHARACTER	4	DDTNAME	Character ID (DDT) and a blank
4	(4)	BITSTRING	1	DDTFL1	Flag byte
		1...		DDTLPAIN	LPA addresses in the DDT are initialized.
		.111 1111		*	Reserved
5	(5)	UNSIGNED	1	DDTRSVD2	Reserved
6	(6)	CHARACTER	2	DDTRSVD1	Reserved
Validity bit map - With bit set, indicates that the corressponding 4 byte field exists in the DDT. For those fields marked as required, the contents of the field is valid in that it contains a valid address or pointer. For those fields not marked as required DDT fields, the field needs to be checked to determine if the field is non-zero.					
8	(8)	CHARACTER	4	DDTVALBM	Validity bit map
8	(8)	BITSTRING	1	DDTVALB1	Bit map byte 1
		1...		DDTVSIO	SIO TRAP is valid (Required)
		.1..		DDTVTRAP	TRAP EXIT is valid (Required)
		..1.		DDTVUNIN	Unsolicited Interrupt exit is valid

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Table 695. Structure DDT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		DDTVSENS	Sense exit is valid
		.... 1...		DDTVEOS	End-of-sense exit is valid
		.... .1..		DDTVTCCW	CCW table entry is valid (Required)
		.... ..1.		DDTVERPM	ERP Message write exit is valid (Required)
		1		DDTVMIH	MIH exit entry is valid
9	(9)	BITSTRING	1	DDTVALB2	Bit map byte 2
		1...		DDTVERAS	Erase exit is valid
		.1..		DDTVDSE	Device service exit valid.
		..1.		DDTVDDR	DDR exit is valid
		...1		DDTVCPS	Channel program scan exit is valid (EXCP processor use only)
		.... 1...		DDTVOPEN	Subsystem name for OPEN is valid
		.... .111		*	Reserved
10	(A)	BITSTRING	1	DDTVALB3	Bit map byte 3
11	(B)	BITSTRING	1	DDTVALB4	Bit map byte 4
12	(C)	CHARACTER	4	DDTLPABM	LPA Bit map
12	(C)	BITSTRING	1	DDTLPAB1	LPA bit map byte 1
		1111 11..		*	Reserved
		.... ..1.		DDTLPERP	ERP message writer entry contains a module suffix instead of an addr.
		1		*	Reserved
13	(D)	BITSTRING	1	DDTLPAB2	LPA bit map byte 2
		11..		*	Reserved
		..1.		DDTLPDDR	DDR exit entry contains a 4 character suffix instead of an address
		...1 1111		*	Reserved
14	(E)	BITSTRING	1	DDTLPAB3	LPA bit map byte 3
15	(F)	BITSTRING	1	DDTLPAB4	LPA bit map byte 4
16	(10)	CHARACTER	4	DDTLPAPF	Four character prefix concatenated with four character suffix to build LPA module names.
Start of the DDT entries					
20	(14)	CHARACTER	56	DDTENTRY	Start of DDT entries
20	(14)	ADDRESS	4	DDTSIO	SIO exit address (Required)
24	(18)	ADDRESS	4	DDTTRAP	TRAP code exit address (Required)
28	(1C)	ADDRESS	4	DDTUNIN	Unsolicited interrupt exit address
32	(20)	ADDRESS	4	DDTSENSE	Sense routine exit address
36	(24)	ADDRESS	4	DDTEOS	End-Of-Sense exit address
40	(28)	ADDRESS	4	DDTTCCW	TCCW OP table address (Required)
44	(2C)	ADDRESS	4	DDTERPMS	ERP message writer exit ID(required)
48	(30)	ADDRESS	4	DDTMIH	MIH exit address
52	(34)	ADDRESS	4	DDTERASE	Erase Exit Address
56	(38)	ADDRESS	4	DDTDSE	Device service exit address.
60	(3C)	ADDRESS	4	DDTDDR	DDR exit ID or address

Table 695. Structure DDT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
64	(40)	ADDRESS	4	DDTCPS	Channel Program Scan exit address
68	(44)	CHARACTER	4	DDTOPEN	Subsystem name for OPEN
72	(48)	ADDRESS	4	DDTRERPA	Resident ERP address or zero.

Table 696. Cross Reference for DDT

Name	Offset	Hex Tag
DDT	0	
DDTCPS	40	
DDTDDR	3C	
DDTDSE	38	
DDTENTRY	14	
DDTEOS	24	
DDTERASE	34	
DDTERPMS	2C	
DDTFL1	4	
DDTLPABM	C	
DDTLPAB1	C	
DDTLPAB2	D	
DDTLPAB3	E	
DDTLPAB4	F	
DDTLPAIN	4	80
DDTLPAPF	10	
DDTLPDDR	D	20
DDTLPERP	C	02
DDTMIH	30	
DDTNAME	0	
DDTOPEN	44	
DDTRERPA	48	
DDTRSVD1	6	
DDTRSVD2	5	
DDTSENSE	20	
DDTSIO	14	
DDTTCCW	28	
DDTTRAP	18	
DDTUNIN	1C	
DDTVALBM	8	
DDTVALB1	8	
DDTVALB2	9	
DDTVALB3	A	
DDTVALB4	B	
DDTVCPS	9	10
DDTVDDR	9	20
DDTVDSE	9	40
DDTVEOS	8	08
DDTVERAS	9	80
DDTVERPM	8	02
DDTVMIH	8	01

Table 696. Cross Reference for DDT (continued)

Name	Offset	Hex Tag
DDTVOPEN	9	08
DDTVSENS	8	10
DDTVSIO	8	80
DDTVTCCW	8	04
DDTVTRAP	8	40
DDTVUNIN	8	20

Chapter 157. DEIB Information

DEIB Heading Information

Common Name:	Data Set Extent Informarion Block
Macro ID:	ILRDEIB
DSECT Name:	DEIB
Owning Component:	Auxiliary Storage Manager (SC1CW)
Eye-Catcher ID:	DEIB Offset: 0 Length: 4
Storage Attributes:	Virtual Storage: YES Subpool: 245 Key: 0 Data Space: NO Residency: Above 16 Megabytes virtual
Size:	Header is 8 bytes plus one 12 byte entry for each data set extent
Created by:	ILROPS00
Pointed to by:	PAREDEIB field of the PART entry.
Serialization:	None
Function:	Describes the starting and ending cylinders for each extent of a page data set.

DEIB mapping

Table 697. Structure DEIB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	DEIB	
0	(0)	CHARACTER	8	DEIBHDR	Header information for all entries
0	(0)	CHARACTER	4	DEIBID	DEIB identifier 'DEIB'
4	(4)	SIGNED	2	DEINO	Number of extents in data set
6	(6)	SIGNED	2	DEILEN	Length of entry to map an extent
8	(8)	CHARACTER	12	DEIENTS(*)	Entry to define each extent of a data set

Table 698. Structure DEIENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	12	DEIENT	DEIB entry
0	(0)	SIGNED	4	DEISTCYL	Actual starting cylinder number for this extent
4	(4)	SIGNED	4	DEILOCYL	Relative cylinder for beginning of this extent
8	(8)	SIGNED	4	DEIHICYL	Relative cylinder for end of this extent

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DEIB mapping

Table 699. Cross Reference for DEIB

Name	Offset	Hex Tag
DEIB	0	
DEIBHDR	0	
DEIBID	0	
DEIENT	0	
DEIENTS	8	
DEIHICYL	8	
DEILEN	6	
DEILOCYL	4	
DEINO	4	
DEISTCYL	0	

Chapter 158. DFE Information

DFE Heading Information

Common Name:	VSM Double Free Element
Macro ID:	IHADFE
DSECT Name:	DFE
Owning Component:	Virtual Storage Manager (SC1CH)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 245 or 255 Key: 0 Residency: Above 16M line
Size:	24 bytes
Created by:	IGVADFE, IGVBDFE, IGVGCAS, IEAIPL04
Pointed to by:	AQATDFE, SQATDFE, DFEANEXT, DFEAPREV, DFESNEXT, DFESPREV
Serialization:	VSMFIX lock for global subpools LOCAL lock for private area subpools
Function:	Describes SQA and LSQA free area within pages allocated to a subpool.

DFE mapping

Table 700. Structure DFE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	24	DFE	DOUBLE FREE ELEMENT
0	(0)	ADDRESS	4	DFEANEXT	ADDRESS OF NEXT DFE ON ADDRESS QUEUE
4	(4)	ADDRESS	4	DFEAPREV	ADDRESS OF PREVIOUS DFE ON ADDRESS QUEUE
8	(8)	ADDRESS	4	DFESNEXT	ADDRESS OF NEXT DFE ON SIZE QUEUE
12	(C)	ADDRESS	4	DFESPREV	ADDRESS OF PREVIOUS DFE ON SIZE QUEUE
16	(10)	ADDRESS	4	DFEAREA	ADDRESS OF FREE AREA
20	(14)	UNSIGNED	4	DFESIZE	SIZE OF FREE AREA

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Chapter 159. DFLM Information

DFLM Heading Information

Common Name:	DAE OPTIONS
Macro ID:	ADYDFLM
DSECT Name:	DFLM
Owning Component:	DUMP ANALYSIS AND ELIMINATION (SC143)
Eye-Catcher ID:	DFL Offset: 0 Length: 3
Storage Attributes:	Subpool: 239 Key: 0 Residency: BELOW,ANYWHERE ALLOCATION METHOD: GETMAIN FREQUENCY: 1 PER SYSTEM
Size:	'C4'x
Created by:	IEAVTSDI
Pointed to by:	DSCDFL
Serialization:	NONE
Function:	Maps the current values for the DAE operations. The current values are a result of the DAE default values found in module ADYDFLT and the options specified by the most recent SET DAE=xx operator command.

DFLM mapping

Table 701. Structure DFLM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	196	DFLM	DAE DEFAULT DATA AREA
0	(0)	CHARACTER	4	DFLID	MACRO ID
0	(0)	CHARACTER	3	DFLDFL	ACRONYM 'DFL'
3	(3)	CHARACTER	1	DFLVSD	VERSION NUMBER
4	(4)	CHARACTER	8	DFLPLMEM	LAST SYS1.PARMLIB MEMBER SUCCESSFULLY PROCESSED FOR A SET DAE COMMAND.
12	(C)	CHARACTER	84	DFLCRIT	CRITERIA FOR SYMPTOM STRING TO BE CONSIDERED AS A UNIQUE IDENTIFIER BY DAE
12	(C)	SIGNED	2	DFLSCNT	MINIMUM NUMBER OF SYMPTOM KEYWORDS
14	(E)	SIGNED	2	DFLSLN	MINIMUM SYMPTOM STRING LENGTH
16	(10)	CHARACTER	40	DFLREQ	KEYS OF SPECIFIC SYMPTOMS REQUIRED FOR MATCHING - EACH TWO BYTES DEFINES A KEY
16	(10)	CHARACTER	2	DFLREQA(20)	ARRAY CONTAINING ONE REQUIRED KEY PER ENTRY
56	(38)	CHARACTER	40	DFLOPT	OPTIONAL KEYS FOR MATCHING - EACH TWO BYTES DEFINES A KEY WHICH IS OPTIONAL FOR MATCHING

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Table 701. Structure DFLM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	CHARACTER	2	DFLOPTA(20)	ARRAY CONTAINING ONE OPTIONAL KEY PER ENTRY
96	(60)	CHARACTER	44	DFLDSN	NAME OF THE DATA SET CONTAINING THE DAE PROBLEM RECORDS.
140	(8C)	SIGNED	4	DFLEXPIR	EXPIRATION PERIOD IN DAYS FOR RECORDS IN THE DAE DATASET. IF THE DATE WHEN DAE IS STARTED IS MORE THAN THIS PERIOD AFTER THE LAST OCCURRENCE DATE, THEN THE RECORD WILL BE IGNORED.
144	(90)	SIGNED	4	DFLRECNO	MAXIMUM SIZE TO WHICH THE SYMPTON QUEUE WILL BE ALLOWED TO GROW. RECORD(NN). THIS WILL BE ROUNDED UP TO A MULTIPLE OF THE CPOOL BLKSIZE.
148	(94)	CHARACTER	8	DFLOFLAG	DAE OPTION FLAGS
148	(94)	BITSTRING	1	DFLDAEO	OPTIONS FOR DAE KEYWORDS WHICH DO NOT HAVE FLAGS FOR THE SUBPARAMETERS
		1...		DFLSTRT	START
		.1..		DFLSTOP	STOP
		..1.		DFLSHR	SHARED DAE DATA SET
		...1		DFLDSNS	DATASET NAME SPECIFIED
		.... 1...		DFLGSTP	GLOBALSTOP SPECIFIED
		.... .1..		DFLSHRO	SHARE OPTIONS
149	(95)	BITSTRING	2	DFLDOPT	DUMP OPTIONS WHICH ARE SHARED IN THE SYSPLEX.
149	(95)	BITSTRING	1	DFLSVC	OPTIONS FOR THE SVCDUMP KEYWORD
		1...		DFLSVCM	SVCDUMP(MATCH)
		.1..		DFLSVCS	SVCDUMP(SUPPRESS)
		..1.		DFLSVCU	SVCDUMP(UPDATE)
		...1		DFLSVCA	SVCDUMP(SUPPRESSALL)
150	(96)	BITSTRING	1	DFLSYSM	OPTIONS FOR THE SYSMDUMP KEYWORD
		1...		DFLSYSMM	SYSMDUMP(MATCH)
		.1..		DFLSYSMS	SYSMDUMP(SUPPRESS)
		..1.		DFLSYSMU	SYSMDUMP(UPDATE)
		...1		DFLSYSMA	SYSMDUMP(SUPPRESSALL)
151	(97)	BITSTRING	1	DFLGLB	OPTIONS FOR GLOBAL
		1...		DFLGLBD	GLOBAL(DSN)
		.1..		DFLGLBO	GLOBAL(OPTIONS)
152	(98)	CHARACTER	4	*	RESERVED FOR FUTURE OPTION FLAGS
156	(9C)	UNSIGNED	4	DFLNOTIF	NOTIFY VALUES
156	(9C)	SIGNED	2	DFLNOTDN	NOTIFY DUMP NUMBER
158	(9E)	SIGNED	2	DFLNOTTM	NOTIFY TIME VALUE
160	(A0)	CHARACTER	2	DFLSUFF	Sysplex ADYSETxx suffix
162	(A2)	CHARACTER	2	DFLRSVD1	RESERVED
164	(A4)	UNSIGNED	4	DFLPDSIN	Partial dump suppression interval
168	(A8)	UNSIGNED	4	DFLPDSC1	Partial Dump count limit
168	(A8)	UNSIGNED	2	DFLPDSC2	Reserved
170	(AA)	SIGNED	2	DFLPDSCT	Halfword limit count
172	(AC)	CHARACTER	24	DFLRSVD2	RESERVED
196	(C4)	CHARACTER	0	DFLENDBT	End of DFL definition

Table 702. Constants for DFLM

Len	Type	Value	Name	Description
4	CHARACTER	DFL1	DFLVSNC	NAME AND VERSION NUMBER VALUE TO BE PLACED IN DFLID WHEN THIS DATAAREA IS CREATED.
4	DECIMAL	5	DFLSMINC	MINIMUM VALUE ALLOWED FOR DFLSCNT (NUMBER OF SYMPTOMS FOR UNIQUENESS) NOTE: THE MAXIMUM NUMBER OF SYMPTOMS ALLOWED IS RESTRICTED BY THE IMPLEMENTAION OF FIELDS DFLREQA AND DFLOPTA.
4	DECIMAL	25	DFLSMINL	MINIMUM VALUE ALLOWED FOR DFLSLN (BYTES OF DATA FOR UNIQUENESS) NOTE: THE MAXIMUM SYMPTOM STRING LENGTH ALLOWED IS RESTRICTED BY THE IMPLEMENTAION OF THE SYMPTOM QUEUE AND DATASET. SEE MAPPINGS ADYSYMP AND ADYSRCD.
4	DECIMAL	1	DFLRMIN	MINIMUM VALUE ALLOWED FOR DFLRECNO (RECORD KEYWORD)
4	DECIMAL	1	DFLEXMIN	MINIMUM VALUE ALLOWED FOR DFLEXPIR (EXPIRATION OF ERROR RECORD IN DAE DATASET)
4	DECIMAL	15	DFLPDSCF	Default for DFLPDSC1/T field, limit of dump events after which partial dump suppression
4	DECIMAL	2000	DFLPDSDF	Default hundredths of second interval, for DFLPDSIN, where duplicate SVC dumps will be suppressed if the previous one was Partial
4	DECIMAL	50	DFLSMAXL	MAXIMUM LENGTH ALLOWED FOR ANY SINGLE MVS SYMPTOM (KEYWORD PLUS DATA). THIS IS DONE TO PREVENT A SINGLE SYMPTOM FROM USING UP THE ENTIRE SYMPTOM STRING.
4	DECIMAL	15	DFLSMXRL	MAXIMUM LENGTH ALLOWED FOR ANY SINGLE RETAIN SYMPTOM (KEYWORD PLUS DATA). THIS IS A RETAIN DATA BASE RESTRICTION.

Table 703. Cross Reference for DFLM

Name	Offset	Hex Tag
DFLCRIT	C	
DFLDAEO	94	
DFLDFL	0	
DFLDOPT	95	
DFLDSN	60	
DFLDSNS	94	10
DFLENDBT	C4	
DFLEXPIR	8C	
DFLGLB	97	
DFLGLBD	97	80
DFLGLBO	97	40
DFLGSTP	94	08
DFLID	0	

Table 703. Cross Reference for DFLM (continued)

Name	Offset	Hex Tag
DFLM	0	
DFLNOTDN	9C	
DFLNOTIF	9C	
DFLNOTTM	9E	
DFLOFLAG	94	
DFLOPT	38	
DFLOPTA	38	
DFLPDSCT	AA	
DFLPDSC1	A8	
DFLPDSC2	A8	
DFLPDSIN	A4	
DFLPLMEM	4	
DFLRECNO	90	
DFLREQ	10	
DFLREQA	10	
DFLRSVD1	A2	
DFLRSVD2	AC	
DFLSCNT	C	
DFLSHR	94	20
DFLSHRO	94	04
DFLSLN	E	
DFLSTOP	94	40
DFLSTRT	94	80
DFLSUFF	A0	
DFLSVC	95	
DFLSVCA	95	10
DFLSVCM	95	80
DFLSVCS	95	40
DFLSVCU	95	20
DFLSYSM	96	
DFLSYSMA	96	10
DFLSYSMM	96	80
DFLSYSMS	96	40
DFLSYSMU	96	20
DFLVSD	3	

Chapter 160. DMDT Information

DMDT Heading Information

Common Name:	Domain Table Description
Macro ID:	IRADMDT
DSECT Name:	DMDT (unless DSECT=NO is coded)
Owning Component:	System Resource Manager (SC1CX)
Eye-Catcher ID:	DMDT Offset: 'EC'x Length: 4
Storage Attributes:	Subpool: 245 Key: 0 Residency: Above 16M line
Size:	240 bytes (per domain or service class period)
Created by:	IEEMB812, IEAVNP10, IRAMSCHG, IRAMSBLD, IRAMSBL2, IRAPATOP
Pointed to by:	RMCTDMDT field of the RMCT data area (OUCBDMO is used to get to a particular domain in compatibility mode) DMDTNEXT field of the DMDT data area DMDTPREV field of the DMDT data area
Serialization:	SRM Lock
Function:	The DMDT specifies the domains into which user transactions are divided, and for each domain, the constraints on its participation in the changing of the multi-system programming level and current domain control status. The domain to be used for a transaction is indicated by the -WPGPDMN- field of the current period within the applicable performance group description.

DMDT mapping

Table 704. Structure DMDT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	256	DMDT	
0	(0)	UNSIGNED	1	DMDTNO	DOMAIN NUMBER
1	(1)	UNSIGNED	1	DMDTRSV0	RESERVED
2	(2)	SIGNED	2	DMDTMPLI	MPL IN TARGET
4	(4)	SIGNED	2	DMDTMPLO	MPL OUT TARGET
6	(6)	SIGNED	2	DMDTRSV1	Reserved
8	(8)	SIGNED	2	DMDTFITS	last FITS return code
10	(A)	SIGNED	2	DMDTCMPL	CURRENT MPL
12	(C)	SIGNED	2	DMDTOUTU	CURRENT # USERS ON OUT Q
14	(E)	SIGNED	2	DMDTINCU	CURRENT # SWAPPABLE INCORE USERS
16	(10)	SIGNED	4	DMDTRUC	ACCUMULATOR FOR READY USER AVERAGE
20	(14)	UNSIGNED	4	DMDTWMS	INTVL DMN SVCE ACCUM
24	(18)	UNSIGNED	4	DMDTTWSR	WEIGHTED INTVL DMN SVCE

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Table 704. Structure DMDT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	SIGNED	4	DMDTMTA1	maximum of in target and achieved accumulator, wlm mode only
32	(20)	UNSIGNED	2	DMDTCIDX	CONTENTION INDEX, srm mode only
34	(22)	SIGNED	2	DMDTNSW	CURRENT # NONSWAPPABLE IN USERS
36	(24)	SIGNED	2	DMDTRUMX	MAX # READY USERS IN INTERVAL
38	(26)	BITSTRING	1	DMDTFLGS	FLAG BYTE
		1...		DMDTRTO	RTO PERIOD IN THIS DMN
		.1..		DMDTASRV	ASRV SPECIFIED FOR THIS DOMAIN
		..1.		DMDTFXCI	FIXED CONTENTION INDEX SPECIFIED FOR THIS DOMAIN
		...1 1111		*	RESERVED
39	(27)	UNSIGNED	1	DMDTRSV3	RESERVED
40	(28)	SIGNED	4	DMDTTRNC	XACTN COUNT FOR RTO, srm mode only
40	(28)	UNSIGNED	4	DMDTRUC2	ready user accumulator for plotting, wlm mode only
44	(2C)	SIGNED	4	DMDTTRNT	ELAPSED TIME ACCUM FOR RTO, srm mode only
44	(2C)	UNSIGNED	4	DMDTMTA2	maximum of in target and achieved accumulator for plotting, wlm mode only
48	(30)	SIGNED	4	DMDTTWET	ELAPSED TIME AVG FOR RTO, srm mode only
48	(30)	UNSIGNED	4	DMDTINT1	in target accumulator, wlm mode only
52	(34)	SIGNED	2	DMDTLO	MIN MPL LEVEL, srm mode only
54	(36)	SIGNED	2	DMDTHI	MAX MPL LEVEL, srm mode only
56	(38)	SIGNED	4	DMDTASRL	LOW AVERAGE SERVICE RATE, srm mode only
56	(38)	UNSIGNED	4	DMDTACH1	mpl achieved accumulator, wlm mode only
60	(3C)	SIGNED	4	DMDTASRH	HIGH AVERAGE SERVICE RATE
64	(40)	SIGNED	4	DMDTDSRL	LOW TOTAL SERVICE RATE
68	(44)	SIGNED	4	DMDTDSRH	HIGH TOTAL SERVICE RATE
72	(48)	SIGNED	2	DMDTCRTI	ESTOR CRITERIA TABLE INDEX, srm mode only
74	(4A)	SIGNED	2	DMDTCRTR	REQUESTED CRITERIA TABLE INDEX
76	(4C)	SIGNED	2	DMDTRUMW	weighted ready user max, srm mode only
76	(4C)	SIGNED	2	DMDTLRUA	long term ready user average (*16), wlm mode only
78	(4E)	SIGNED	2	DMDTRSV2	Reserved
80	(50)	SIGNED	4	DMDTRUA	Average number of ready users to 1 hex place
84	(54)	SIGNED	4	DMDTASCT	number of spaces in period, wlm mode only.
88	(58)	SIGNED	4	DMDTASAC	accumulator for dmdtasav, wlm mode only. Includes enclaves
92	(5C)	SIGNED	4	DMDTASAV	average spaces in period * 256, wlm mode only. Includes enclaves
96	(60)	SIGNED	4	DMDTLASA	long term number of address spaces in period, wlm mode only Includes enclaves

Table 704. Structure DMDT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
100	(64)	SIGNED	4	DMDTRUC3	Accumulator for ready users (rm2 interval wlm mode only)
104	(68)	SIGNED	4	DMDTMTA3	maximum of in target and achieved (rm2 interval, wlm mode only)
108	(6C)	UNSIGNED	4	DMDTACH3	mpl achieved accumulator (rm2 interval, wlm mode only)
112	(70)	SIGNED	4	DMDTENCT	number of enclaves in period, wlm mode only
116	(74)	SIGNED	4	DMDTENC1	accumulator of DMDTENCT, wlm mode only
120	(78)	SIGNED	4	DMDTRSV5(2)	Reserved
128	(80)	ADDRESS	4	DMDTNEXT	next dmdt address
132	(84)	ADDRESS	4	DMDTPREV	previous dmdt address
136	(88)	CHARACTER	100	DMDTWORK	Domain workarea for IRARMCAP and IRARMMON (Refer to mappings DMDTCAPW and DMDTMONW for details on the contents of the workareas)
236	(EC)	SIGNED	4	DMDTAOAC	accumulator for dmdtasct, wlm mode only, same as dmdtasac except enclaves not included
240	(F0)	SIGNED	4	DMDTAOAV	average spaces in period * 256, wlm mode only, same as dmdtasav except enclaves not included
244	(F4)	SIGNED	4	DMDTLOSA	long term number of address spaces in period, wlm mode only same as dmdtlasa except enclaves not included
248	(F8)	CHARACTER	4	DMDTRSV6	Reserved
252	(FC)	CHARACTER	4	DMDTNAME	Acronym
256	(100)	CHARACTER	0	DMDTEND	END OF DMDT End of this block

Table 705. Structure DMDTCAPW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
136	(88)	STRUCTURE	93	DMDTCAPW	
136	(88)	ADDRESS	4	DMDTCPI(10)	CPI list
176	(B0)	ADDRESS	4	DMDTCPO(10)	CPO list
216	(D8)	SIGNED	2	DMDTCPII	Index for CPI
218	(DA)	SIGNED	2	DMDTNUMI	Number of CPI entries
220	(DC)	SIGNED	2	DMDTCPOI	Index for CPO
222	(DE)	SIGNED	2	DMDTNUMO	Number of CPO entries
224	(E0)	SIGNED	2	DMDTSWPI	Number of swap-in candidates that have not been processed
226	(E2)	SIGNED	2	DMDTSWPO	Number of swap-out candidates that have not been processed
228	(E4)	BITSTRING	1	*	Flag fields
		1...		DMDTBLDI	Indicate CPI list was built
		.1..		DMDTBLDO	Indicate CPO list was built
		..1.		DMDTSKPI	Skip indicator for CPI list

Table 705. Structure DMDTCAPW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		DMDTDONE	Used during Unilateral Swap-in Part 2. When on, there should be no other attempts to swap address spaces into this domain
		 1111		*	Reserved

Table 706. Structure DMDTMONW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
136	(88)	STRUCTURE	82	DMDTMONW	Workarea mapping for IRARMMON and IRARMSTA during an RM2 invocation. The data described by this mapping should not be used outside an RM2 interval.
136	(88)	ADDRESS	4	DMDTROAP(20)	Table of swapped in WSM address space OUCB pointers in increasing workload manager recommendation value order. If the number of swapped in address spaces in the domain is greater than 20 then this table contains the top 10 address spaces with the lowest RV and the top 10 address spaces with the highest RV
216	(D8)	SIGNED	2	DMDTRONM	Number of address spaces in the DMDTROAP table.

Table 707. Constants for DMDT

Len	Type	Value	Name	Description
4	DECIMAL	256	DMDTLEN	

Table 708. Cross Reference for DMDT

Name	Offset	Hex Tag
DMDT	0	
DMDTACH1	38	
DMDTACH3	6C	
DMDTAOAC	EC	
DMDTAOAV	F0	
DMDTASAC	58	
DMDTASAV	5C	
DMDTASCT	54	
DMDTASRH	3C	
DMDTASRL	38	
DMDTASRV	26	40
DMDTBLDI	E4	80
DMDTBLDO	E4	40
DMDTCAPW	88	
DMDTCIDX	20	

Table 708. Cross Reference for DMDT (continued)

Name	Offset	Hex Tag
DMDTCMPL	A	
DMDTCPI	88	
DMDTCPII	D8	
DMDTCPO	B0	
DMDTCPOI	DC	
DMDTCRTI	48	
DMDTCRTR	4A	
DMDTDONE	E4	10
DMDTDSRH	44	
DMDTDSRL	40	
DMDTENCT	70	
DMDTENC1	74	
DMDTEND	100	
DMDTFITS	8	
DMDTFLGS	26	
DMDTFXCI	26	20
DMDTHI	36	
DMDTINCU	E	
DMDTINT1	30	
DMDTLASA	60	
DMDTLO	34	
DMDTLOSA	F4	
DMDTLRUA	4C	
DMDTMONW	88	
DMDTMPLI	2	
DMDTMPLO	4	
DMDTMTA1	1C	
DMDTMTA2	2C	
DMDTMTA3	68	
DMDTNAME	FC	
DMDTNEXT	80	
DMDTNO	0	
DMDTNSW	22	
DMDTNUMI	DA	
DMDTNUMO	DE	
DMDTOUTU	C	
DMDTPREV	84	
DMDTROAP	88	
DMDTRONM	D8	
DMDTRSV0	1	
DMDTRSV1	6	
DMDTRSV2	4E	
DMDTRSV3	27	
DMDTRSV5	78	
DMDTRSV6	F8	
DMDTRTO	26	80
DMDTRUA	50	
DMDTRUC	10	
DMDTRUC2	28	

Table 708. Cross Reference for DMDT (continued)

Name	Offset	Hex Tag
DMDTRUC3	64	
DMDTRUMW	4C	
DMDTRUMX	24	
DMDTSKPI	E4	20
DMDTSWPI	E0	
DMDTSWPO	E2	
DMDTTRNC	28	
DMDTTRNT	2C	
DMDTTWET	30	
DMDTTWSR	18	
DMDTWMS	14	
DMDTWORK	88	

Chapter 161. DOCNP Information

DOCNP Programming Interface Information

DOCNP is a programming interface.

DOCNP Heading Information

Common Name:	Dynamic Output Installation Exit Parameter List
Macro ID:	IEFDOCNP
DSECT Name:	DOCNP
Owning Component:	Dynamic Output (BB131)
Eye-Catcher ID:	DOCN Offset: 0 Length: 4
Storage Attributes:	Subpool: 229 Key: 1 Residency: Any
Size:	24 bytes
Created by:	Dynamic output
Pointed to by:	On entry to the installation exit, register 1 points at a word which points at DOCNP.
Serialization:	N/A
Function:	Maps the fixed parameter list passed to IEFDOIXT, the dynamic output installation exit.

DOCNP mapping

Table 709. Structure DOCNP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DOCNP	Dynamic Output parameter list
0	(0)	CHARACTER	4	DOCNID	Identifier 'DOCN'
4	(4)	BITSTRING	1	DOCNVERS	Version number
5	(5)	BITSTRING	1	DOCNFNC1	Function byte
		1...		DOCNNEW	"X'80'" Add a new output descriptor
		.1..		DOCNDEL	"X'40'" Delete an output descriptor
6	(6)	BITSTRING	2	DOCNLEN	Length of the parameter list
8	(8)	CHARACTER	8	DOCNNAME	Output descriptor name
16	(10)	SIGNED	4	DOCNTXTP	Pointer to text unit pointer list
20	(14)	BITSTRING	1	DOCNFNC2	Function byte

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Table 709. Structure DOCNP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		DOCNCENQ	"X'80'" Conditional ENQ requested Bits X'40' and X'20' are reserved for a special use. They are not intended for common use. Unless specifically documented otherwise, they should be zeroed on input to SVC 109. They should not be altered by the dynamic output installation exit.
21	(15)	CHARACTER	3	DOCNRSV0	Reserved for IBM
24	(18)	CHARACTER	4	DOCNRSV1	Reserved for IBM
28	(1C)	CHARACTER	4	DOCNRSV2	Reserved for IBM
28	(1C)	X'20'	0	DOCNEND	"*" End of the parameter list

Table 710. Cross Reference for DOCNP

Name	Offset	Hex Tag
DOCNCENQ	14	80
DOCNDEL	5	40
DOCNEND	1C	20
DOCNFNC1	5	
DOCNFNC2	14	
DOCNID	0	
DOCNLEN	6	
DOCNNAME	8	
DOCNNEW	5	80
DOCNP	0	
DOCNRSV0	15	
DOCNRSV1	18	
DOCNRSV2	1C	
DOCNTXTP	10	
DOCNVERS	4	

Chapter 162. DOMC Information

DOMC Programming Interface Information

DOMC is a programming interface.

DOMC Heading Information

Common Name:	DELETE-OPERATOR-MESSAGE CONTROL BLOCK
Macro ID:	IHADOMC
DSECT Name:	DOMCBASE
Owning Component:	COMMUNICATION TASK (SC1CK)
Eye-Catcher ID:	DOMC Offset: 0 Length: 4
Storage Attributes:	Subpool: 231 Key: 0 Residency: ANY
Size:	32 BYTES PLUS 4 BYTES PER MESSAGE ID FOLLOWED BY A 28 BYTE TRAILER
Created by:	CNZM1RM, CNZSCLOT, CNZS1DOM, IEAVBWTO, IEAVG608, IEAVG715, IEAVVRP2
Pointed to by:	-ON THE DOM CHAIN POINTED TO BY FIELD UCMDOME IN THE UCM. -FIELD SSDMDMC2 OF THE SSDM $MAC(IHADOMC),COMP(SC1CK): Delete Operator Message (DOM)
Serialization:	LOCAL AND CMS LOCKS
Function:	MAPS THE DATA AREA USED TO COMMUNICATE DOM IDS, SYSID, TOKEN, ASID, TCB BETWEEN THE REQUESTER OF DOM AND THE COMMUNICATIONS TASK WHICH WILL PERFORM THE DOM.

DOMC mapping

Table 711. Structure DOMCBASE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DOMCBASE	, - START OF DOMC PASSED TO SUBSYSTEM (JBB2220)
0	(0)	CHARACTER	4	DOMCBID	ACRONYM: DOMC
4	(4)	ADDRESS	4	DOMCLNK	POINTER TO NEXT DOMC
8	(8)	ADDRESS	4	DOMCIDP	POINTER TO LIST OF DOM IDS
12	(C)	ADDRESS	4	DOMCTRP	POINTER TO DOMC TRAILER
16	(10)	SIGNED	2	DOMCTSIZ	TOTAL SIZE OF ALL PARTS OF DOMC
18	(12)	BITSTRING	1	DOMCFLG2	MISCELLANEOUS FLAGS #2
		1...		DOMCRSV5	"BIT0" - Reserved (formerly DomcMark)
		.1..		DOMCNORM	"BIT1" - Build a DOM(NORMAL) MDB
		..1.		DOMCWTOR	"BIT2" - This DOMC is for a WTOR
		...1		DOMCRSV7	"BIT3" - Reserved (formerly DomcNH)

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Table 711. Structure DOMCBASE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		DOMCFORN	"BIT4" - DOMC came from another system
		.... .1..		DOMBYREPLY	"BIT5" - Free reply id by reply processing
19	(13)	BITSTRING	1	DOMCRSV0	RESERVED
20	(14)	SIGNED	4	DOMCRSV1	RESERVED
20	(14)	X'18'	0	DOMC	"*" - START OF DOMC PASSED TO SUBSYSTEM (PRE-JBB2220)
24	(18)	BITSTRING	1	DOMCNTRL	- CONTROL FLAGS
		1...		DOMCDBTK	"BIT0" - DOM BY TOKEN, NO DOMCID FIELD EXISTS
		.1..		DOMCDBSY	"BIT1" - DOM BY SYSID, NO DOMCID FIELD EXISTS
		..1.		DOMCRSV2	"BIT2" - Reserved (formerly DomcSext)
		...1		DOMCAUTH	"BIT3" - DOM ISSUED BY AUTHORIZED USER. NOT ON WHEN EITHER DOMCDBL OR DOMCDBAJ IS ON. MAY BE ON WHEN DOMCDBTK AND DOMCDBSY ARE ON. IF DOMCDBL AND DOMCBAJ AND DOMCDBTK AND DOMCDBSY ARE OFF, ALL MESSAGE IDS ARE VALID.
		.... 1...		DOMCDBAJ	"BIT4" - DOM BY ASID AND JOB STEP TCB ADDRESS, NO DOMCID FIELD EXISTS (OS/VS2) MDC004
		.... .1..		DOMCREIS	"BIT5" - CROSS SYSTEM DOM REISSUE TRANSPORTED BY JES3
		.... ..1.		DOMCDBL	"BIT6" - DOM BY ASID ONLY, NO DOMCID FIELDS EXITS
		1		DOMCPROC	"BIT7" - DOMC HAS BEEN PROCESSED
25	(19)	BITSTRING	1	DOMCVRSN	VERSION LEVEL
25	(19)	X'4'	0	DOMCVRID	"DOMCJBB7727" VERSION LEVEL - UPDATED FOR SIZE OR INCOMPATIBLE CHANGE
25	(19)	X'1'	0	DOMCSP21	"1" VERSION LEVEL FOR OS/VS2 HBB2102
25	(19)	X'2'	0	DOMCSP22	"2" VERSION LEVEL FOR OS/VS2 JBB2220
25	(19)	X'3'	0	DOMCSP41	"3" VERSION LEVEL FOR HBB4410
25	(19)	X'4'	0	DOMCJBB7727	"4" Version Level for JBB7727
26	(1A)	BITSTRING	1	DOMCCNT	COUNT OF 4-BYTE DOM IDS
27	(1B)	BITSTRING	1	DOMCFLGS	MISCELLANEOUS FLAGS
		1...		DOMCRSV8	"BIT0" - Reserved (formerly DomcBrdc)
		.1..		DOMCLNKB	"BIT1" - DOM INVOKED THRU BRANCH ENTRY
		..1.		DOMCSKIP	"BIT2" - SKIP DELAYED MESSAGE QUEUE PROCESSING
		...1		DOMCRSV9	"BIT3" - Reserved (formerly DomcDumy)
		.... 1...		DOMCRSVC	"BIT4" - Reserved (formerly DomcFrid)

Table 711. Structure DOMCBASE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		DOMCRSVA	"BIT5" - Reserved (formerly DomcIdOk)
		.... ..1.		DOMCRSVB	"BIT6" - Reserved (formerly DomcMtch)
		1		DOMCNWTR	"BIT7" - Do not DOM a WTOR by ASID or ASID/JSTCB
		A DOMC ENTRY			
28	(1C)	ADDRESS	4	DOMCID(0)	- DOMC MESSAGE ID ENTRY (MAXIMUM OF 60 ENTRIES)
28	(1C)	BITSTRING	1	DOMCSYID(0)	- SYSTEM ID
28	(1C)	BITSTRING	1	DOMCFLAG	- DOMCID ENTRY FLAGS
		1...		DOMCEND	"BIT0" - THIS IS THE LAST DOMCID ENTRY IN THIS DOMC
29	(1D)	ADDRESS	3	DOMCIDA	- MESSAGE ID TO BE DOM'ED
		THE DOMC TRAILER THE FOLLOWING FIELDS ARE LOCATED IMMEDIATELY FOLLOWING THE LAST DOMCID ENTRY			
32	(20)	CHARACTER	28	DOMCTRLR(0)	THE DOMC TRAILER
32	(20)	CHARACTER	16	DOMCTRL1(0)	THE DOMC TRAILER (PRE-SP410 SIZE)
32	(20)	SIGNED	2	DOMCASID	- ASID OF DOM ISSUER (OS/VS2) MDC006
34	(22)	SIGNED	2	DOMCSIZE	- SIZE OF DOMC PASSED TO SUBSYSTEM (IN BYTES) EXCLUDES THE DOMC HEADER FOR COMPATIBILITY REASONS
36	(24)	ADDRESS	4	DOMCJTCB	- ADDRESS OF THE JOB STEP'S TCB (OS/VS2) MDC007
40	(28)	SIGNED	1	DOMCSID	SYSTEM ID
41	(29)	SIGNED	3	DOMCRSV3	RESERVED
44	(2C)	ADDRESS	4	DOMCTOKN	TOKEN
48	(30)	CHARACTER	12	DOMCTRL2(0)	More DOMC trailer
48	(30)	CHARACTER	12	DOMCRSV4	Reserved (includes formerly DomcTime)
		OTHER CONSTANTS			
48	(30)	X'E7'	0	K_DOMC_SUBPOOL	"231" Subpool storage for a DOMC
48	(30)	X'3C'	0	K_DOMC_MAX_IDS	"60" Maximum number of ids in a list

Table 712. Cross Reference for DOMC

Name	Offset	Hex Tag
DOMBYREPLY	12	4
DOMC	14	18
DOMCASID	20	
DOMCAUTH	18	10
DOMCBASE	0	
DOMCBID	0	
DOMCCNT	1A	
DOMCDBAJ	18	8

Table 712. Cross Reference for DOMC (continued)

Name	Offset	Hex Tag
DOMCDBL	18	2
DOMCDBSY	18	40
DOMCDBTK	18	80
DOMCEND	1C	80
DOMCFLAG	1C	
DOMCFLGS	1B	
DOMCFLG2	12	
DOMCFORN	12	8
DOMCID	1C	
DOMCIDA	1D	
DOMCIDP	8	
DOMCJBB7727	19	4
DOMCJTCB	24	
DOMCLNK	4	
DOMCLNKB	1B	40
DOMCNORM	12	40
DOMCNTRL	18	
DOMCNWTR	1B	1
DOMCPROC	18	1
DOMCREIS	18	4
DOMCRSVA	1B	4
DOMCRSVB	1B	2
DOMCRSVC	1B	8
DOMCRSV0	13	
DOMCRSV1	14	
DOMCRSV2	18	20
DOMCRSV3	29	
DOMCRSV4	30	
DOMCRSV5	12	80
DOMCRSV7	12	10
DOMCRSV8	1B	80
DOMCRSV9	1B	10
DOMCSID	28	
DOMCSIZE	22	
DOMCSKIP	1B	20
DOMCSP21	19	1
DOMCSP22	19	2
DOMCSP41	19	3
DOMCSYID	1C	
DOMCTOKN	2C	
DOMCTRLR	20	
DOMCTRL1	20	
DOMCTRL2	30	
DOMCTRP	C	
DOMCTSIZ	10	
DOMCVRID	19	4
DOMCVRSN	19	
DOMCWTOR	12	20
K_DOMC_MAX_IDS	30	3C

Table 712. Cross Reference for DOMC (continued)

Name	Offset	Hex Tag
K_DOMC_SUBPOOL	30	E7

Chapter 163. DOMPL Information

DOMPL Heading Information

Common Name:	DOM Parameter List
Macro ID:	IEZVM112
DSECT Name:	DOMPL
Owning Component:	Communications Task (SC1CK)
Eye-Catcher ID:	None
Storage Attributes:	Main Storage: Yes Subpool: Any Key: Any
Size:	4 bytes per message id, up to 60 message ids
Created by:	Issuer of DOM macro
Pointed to by:	Register 1 on entry to DOM processing
Serialization:	N/A
Function:	Input parameter list for DOM processing.

DOMPL mapping

Table 713. Structure DOMPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	4	DOMPL	MESSAGE ID ENTRY
0	(0)	SIGNED	4	DOMPDMID	DOM SEQUENCE NUMBER
0	(0)	UNSIGNED	1	DOMPSYID	SYSTEM ID
0	(0)	BITSTRING	1	DOMPFLAG	FLAGS BYTE OF DOM ID ENTRY
		1...		DOMPEND	IF ON THEN END OF DOM PARM LIST
1	(1)	ADDRESS	3	DOMPID	ID OF MESSAGE TO BE DOMED

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Chapter 164. DQE Information

DQE Heading Information

Common Name:	VSM Descriptor Queue Element
Macro ID:	IHADQE
DSECT Name:	DQE
Owning Component:	Virtual Storage Manager (SC1CH)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 245 or 255 Key: 0 Residency: Above 16M line
Size:	24 bytes
Created by:	IGVGCSA, IGVGPVT, IGVFSDQE, IGVGAPVT, IGVNIPCR
Pointed to by:	SPQAFBDQ, SPQALBDQ, SPQAFADQ, SPQALADQ, SPQAFEDQ, SPQALEDQ, SPTFBDQE, SPTLBDQE SPTFADQE, SPTLADQE, SPTFEDQE, SPTLEDQE DQENEXT, DQEPREV, FQEDQE
Serialization:	VSMFIX lock for global subpools LOCAL lock for private area subpools
Function:	Describes CSA and private area space (in 4k multiples) allocated to a subpool.

DQE mapping

Table 714. Structure DQE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	24	DQE	DESCRIPTOR FREE ELEMENT
0	(0)	ADDRESS	4	DQENEXT	ADDRESS OF NEXT DQE
4	(4)	ADDRESS	4	DQEPREV	ADDRESS OF PREVIOUS DQE
8	(8)	ADDRESS	4	DQEFFQE	ADDRESS OF FIRST FQE
12	(C)	ADDRESS	4	DQELFQE	ADDRESS OF LAST FQE
16	(10)	ADDRESS	4	DQEAREA	ADDRESS OF ALLOCATED AREA
20	(14)	BITSTRING	4	DQESIZE32	SIZE OF ALLOCATED AREA
		1...		DQEUNUSABLE	STORAGE NOT USABLE
20	(14)	BITSTRING	3	DQESIZE	SIZE OF ALLOCATED AREA

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Chapter 165. DSAB Information

DSAB Programming Interface Information

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

- DSABSSNM
- DSABTIOT

DSAB Heading Information

Common Name:	DATA SET ASSOCIATION BLOCK
Macro ID:	IHADSAB
DSECT Name:	DSAB, DSABANMI
Owning Component:	Allocation (SC1B4)
Eye-Catcher ID:	DSAB Offset: 0 Length: 4
Storage Attributes:	Subpool: SWA subpool Key: 1 Residency: Defaults to below, but is stored above if requested via the S99DSABA bit in the SVC 99 parameter list.
Size:	DSAB: LENGTH(DSAB) DSABANMI: 1 + DSABANML
Created by:	IEFAB428 - Build DSAB/TIOT Entry
Pointed to by:	SIOTETIO in the IEFASIOT JSCDSABQ -> Queue Descriptor Block(QDB) (ie. QDB(QDBFELMP) -> first DSAB QDB(QDBLELMP) -> last DSAB, ...)
Serialization:	None
Function:	THE DATA SET ASSOCIATION BLOCK, DSAB, AND ITS CORRESPONDING TIOT DD ENTRY CONTAIN INFORMATION WHICH SERVE AS AN INTERFACE BETWEEN ALLOCATION (BOTH STEP AND DYNAMIC) AND OTHER SYSTEM COMPONENTS. DSABS ARE ELEMENTS OF A NON-CONTIGUOUS, DOUBLE-THREADED CHAIN. THE TIOT ENTRY IS ADDRESSED FROM THE DSAB FIELD DSABTIOT. The GETDSAB executable macro can be used to obtain the DSAB addresses.

DSAB mapping

Table 715. Structure DSAB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DSAB	
0	(0)	SIGNED	4	(0)	
0	(0)	CHARACTER	4	DSABID	IN-CORE ID,CHARACTERS 'DSAB'
4	(4)	SIGNED	4	DSABFCHN	NEXT BELOW THE LINE DSAB POINTER, 0 IF LAST, OR IF DSAB RESIDES ABOVE THE 16MB LINE

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Table 715. Structure DSAB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	SIGNED	4	DSABBCHN	PREVIOUS BELOW THE LINE DSAB POINTER, 0 IF FIRST, OR IF DSAB RESIDES ABOVE THE 16MB LINE
12	(C)	SIGNED	2	DSABLNTH	LENGTH OF DSAB
14	(E)	SIGNED	2	DSABOPCT	OPEN DCB COUNT FOR TIOT DD ENTRY
16	(10)	SIGNED	4	DSABTIOT	TIOT DD ENTRY PTR
20	(14)	CHARACTER	1	DSABRS01	RESERVED
21	(15)	CHARACTER	3	DSABSSVA	SWA VIRTUAL ADDRESS OF SIOT
24	(18)	CHARACTER	1	DSABRS02	RESERVED
25	(19)	CHARACTER	3	DSABXSVA	SVA of XSIOT
28	(1C)	SIGNED	4	DSABANMP	&NAME OR GDG-ALL DSNAME PTR, 0 IF NONE
32	(20)	CHARACTER	2	DSABORG(0)	DATA SET ORGANIZATION
32	(20)	BITSTRING	1	DSABORG1	1ST BYTE OF DSORG FLAGS
		1...		DSABIS	"X'80'" INDEXED SEQUENTIAL ORGANIZATION
		.1..		DSABPS	"X'40'" PHYSICAL SEQUENTIAL ORGANIZATION
		..1.		DSABDA	"X'20'" DIRECT ACCESS ORGANIZATION
		...1		DSABCX	"X'10'" COMMUNICATIONS LINE GROUP
		.... 1...		DSABCQ	"X'08'" DIRECT ACCESS MESSAGE QUEUE
		.... .1..		DSABMQ	"X'04'" PROBLEM PROGRAM MESSAGE QUEUE
		.... ..1.		DSABPO	"X'02'" PARTITIONED ORGANIZATION
		1		DSABU	"X'01'" UNMOVEABLE
33	(21)	BITSTRING	1	DSABORG2	2ND BYTE OF DSORG FLAGS
		1...		DSABGS	"X'80'" GRAPHICS ORGANIZATION
		.1..		DSABTX	"X'40'" TCAM LINE GROUP
		..1.		DSABTQ	"X'20'" TCAM MESSAGE QUEUE
		.... 1...		DSABAM	"X'08'" VSAM
		.... .1..		DSABTR	"X'04'" TCAM 3705
34	(22)	BITSTRING	1	DSABFLG1	FLAGS-RESTORED BY RESTART
		1...		DSABDALC	"X'80'" DYNAMICALLY ALLOCATED
		.1..		DSABPALC	"X'40'" PERMANENTLY ALLOCATED ATTRIBUTE
		..1.		DSABDCNV	"X'20'" DYNAMICALLY CONVERTED
		...1		DSABCONV	"X'10'" CONVERTIBLE ATTRIBUTE
		.... 1...		DSABDCAT	"X'08'" DYNAMICALLY CONCATENATED
		.... .1..		DSABPCAT	"X'04'" PERMANENTLY CONCATENATED
		.... ..1.		DSABCATM	"X'02'" CONCATENATED GROUP MEMBER
		1		DSABNUSE	"X'01'" IN-USE ATTRIBUTE
35	(23)	BITSTRING	1	DSABFLG2	FLAGS-RESTORED BY RESTART
		1...		DSABOPEN	"X'80'" DATA SET HAS BEEN OPENED
		.1..		DSABIRM	"X'40'" D.S. REVERSED MERGED FOR INPUT
		..1.		DSABUNAL	"X'20'" UNALLOCATE WHEN CLOSED
		...1		DSABVLF	"X'10'" VIRTUAL LOOKASIDE FACILITY

Table 715. Structure DSAB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		DSABJCHG	"X'08'" DSNAME OR VOLSER CHANGED IN THE JFCB
		.... .1..		DSABNODI	"X'04'" When = 1, no dataset integrity specified on dynamic allocation. Valid only if DSABDALC also set
		.... ..1.		DSABATCT	"X'02'" Use alternate TCTIOT offset contained in DSABTCT2 rather than DSABTCTL
36	(24)	BITSTRING	1	DSABFLG3	FLAGS-NOT RESTORED BY RESTART
		1...		DSABDEFR	"X'80'" DEFERRED MOUNTING
		.1..		DSABPASS	"X'40'" PASS/RETAIN IND
		..1.		DSABVAM	"X'20'" VIO DATA SET
		...1		DSABVMSC	"X'10'" VIO PAGING SPACE RELEASED
		.... 1...		DSABCATL	"X'08'" DATA SET IS A CATALOG
		EQU X'04' Reserved, was DSABJSCT			
		.... ..1.		DSABVVDS	"X'02'" VVDS - ICF CATALOG
		1		DSABTIOX	"X'01'" DSAB HAS XTIOT ENTRY (FOR SYSTEM PROGRAM USE ONLY)
37	(25)	BITSTRING	1	DSABFLG4	FLAGS-NOT RESTORED BY RESTART
		1...		DSABCKDS	"X'80'" THIS IS A CHECKPT DATA SET
		.1..		DSABCKVL	"X'40'" VOLUME CONTAINING CHECKPT DATA SET IS SECURE
		..1.		DSABCKSI	"X'20'" SECURITY INTERFACE EXISTS FOR THE CHECKPT DATA SET
		...1		DSABHIER	"X'10'" HIERARCHICAL FILE INDICATOR
		.... 1...		DSABGANM	"X'08'" ALTERNATE NAME SECTION GETMAINED
		.... .1..		DSABLCAT	"X'04'" LAST DATASET IN DD CONCATENATION
		.... ..1.		DSABAUCB	"X'02'" Actual UCBs are to be used for this request
		1		DSABCASL	"X'01'" DSAB TO BE COPIED INTO CATALOG ADDRESS SPACE (CAS)
38	(26)	SIGNED	2	DSABDEXT	INDEX TO DEXT TABLE
40	(28)	SIGNED	4	DSABTCBP	TCB UNDER WHICH SET IN-USE
44	(2C)	SIGNED	4	DSABPTTR	RELATIVE TTR OF DATA SET PASSWORD
48	(30)	CHARACTER	4	DSABSSNM	SUB-SYSTEM NAME
52	(34)	SIGNED	4	DSABSSCM	SUB-SYSTEM COMMUNICATION AREA POINTER
56	(38)	CHARACTER	6	DSABDCBM	BIT MAP OF DCB FIELDS
62	(3E)	SIGNED	2	DSABTCTL	Offset of lookup entry from beginning of TCTIOT. If DSABATCT is on, use DSABTCT2 instead
64	(40)	SIGNED	4	DSABSIOT	SIOT IN-CORE ADDRESS
68	(44)	SIGNED	4	DSABTOKN	DD TOKEN
72	(48)	SIGNED	4	DSABTCT2	Offset of lookup entry from beginning of TCTIOT - always valid

Table 715. Structure DSAB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
76	(4C)	ADDRESS	4	DSABSIOX	Virtual address of SIOTX
80	(50)	SIGNED	4	DSABFCHA	NEXT ABOVE OR BELOW THE LINE DSAB POINTER, 0 IF LAST
84	(54)	SIGNED	4	DSABBCHA	PREVIOUS ABOVE OR BELOW THE LINE DSAB POINTER, 0 IF FIRST
88	(58)	BITSTRING	1	DSABFLG5	GENERAL USE FLAGS
		1...		DSABABOV	"X'80'" DSAB RESIDES ABOVE THE 16MB LINE
		.1..		DSABDMED	"X'40'" INDICATES THIS DSAB'S DME HAS BEEN DELETED
		..1.		DSABBMAL	"X'20'" INDICATES THIS DSAB CAN BYPASS MULTIPLE ALLOCATION CHECKING IN IEFDB4A1
		...1		DSABDASP	"X'10'" Indicates this DSAB had its DD Accounting information suppressed and does not have a TCTIOT entry
		.... 1...		DSABSSXT	"X'08'" Indicates this DSAB is a subsys DD, where the subsystem supports the DynAlloc functions of XTIOT, DSAB above the line and uncaptured UCB. Set by IEFAB427, used by OPEN
		.... .1..		DSABNBTL	"X'04'" Indicates this DSAB is pointed to by a SIOT but is not on the DSABQDB BelowTheLine DSAB queue
		.... ..1.		DSABNATL	"X'02'" Indicates this DSAB is pointed to by a SIOT but is not on the DSABQDB "above and below the line queue.
89	(59)	CHARACTER	7	DSABRS03	RESERVED
89	(59)	X'60'	0	DSABL	"*-DSAB" LENGTH OF DSECT

Table 716. Structure DSABANMI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DSABANMI	ALTERNATE DSNAME INFORMATION
0	(0)	SIGNED	1	DSABANML	LENGTH OF ALTERNATE DSNAME
1	(1)	CHARACTER	1	DSABANAM	ALTERNATE DSNAME
1	(1)	X'2'	0	DSABANL	"*-DSABANMI" LENGTH OF DSECT

Table 717. Cross Reference for DSAB

Name	Offset	Hex Tag
DSAB	0	
DSABABOV	58	80
DSABAM	21	8
DSABANAM	1	
DSABANL	1	2
DSABANMI	0	
DSABANML	0	

Table 717. Cross Reference for DSAB (continued)

Name	Offset	Hex Tag
DSABANMP	1C	
DSABATCT	23	2
DSABAUCB	25	2
DSABBCHA	54	
DSABBCHN	8	
DSABBMAL	58	20
DSABCASL	25	1
DSABCATL	24	8
DSABCATM	22	2
DSABCKDS	25	80
DSABCKSI	25	20
DSABCKVL	25	40
DSABCONV	22	10
DSABCQ	20	8
DSABCX	20	10
DSABDA	20	20
DSABDALC	22	80
DSABDASP	58	10
DSABDCAT	22	8
DSABDCBM	38	
DSABDCNV	22	20
DSABDEFR	24	80
DSABDEXT	26	
DSABDMED	58	40
DSABFCHA	50	
DSABFCHN	4	
DSABFLG1	22	
DSABFLG2	23	
DSABFLG3	24	
DSABFLG4	25	
DSABFLG5	58	
DSABGANM	25	8
DSABGS	21	80
DSABHIER	25	10
DSABID	0	
DSABIRM	23	40
DSABIS	20	80
DSABJCHG	23	8
DSABL	59	60
DSABLCAT	25	4
DSABLNTH	C	
DSABMQ	20	4
DSABNATL	58	2
DSABNBTL	58	4
DSABNODI	23	4
DSABNUSE	22	1
DSABOPCT	E	
DSABOPEN	23	80
DSABORG	20	

Table 717. Cross Reference for DSAB (continued)

Name	Offset	Hex Tag
DSABORG1	20	
DSABORG2	21	
DSABPALC	22	40
DSABPASS	24	40
DSABPCAT	22	4
DSABPO	20	2
DSABPS	20	40
DSABPTTR	2C	
DSABRS01	14	
DSABRS02	18	
DSABRS03	59	
DSABSIOT	40	
DSABSIOX	4C	
DSABSSCM	34	
DSABSSNM	30	
DSABSSVA	15	
DSABSSXT	58	8
DSABTCBP	28	
DSABTCTL	3E	
DSABTCT2	48	
DSABTIOT	10	
DSABTIOX	24	1
DSABTOKN	44	
DSABTQ	21	20
DSABTR	21	4
DSABTX	21	40
DSABU	20	1
DSABUNAL	23	20
DSABVAM	24	20
DSABVLF	23	10
DSABVMSC	24	10
DSABVVDS	24	2
DSABXSVA	19	

Chapter 166. DSABQDB Information

DSABQDB Heading Information

Common Name:	DSAB Queue Descriptor Block (QDB)
Macro ID:	IEFZB4D5
DSECT Name:	DSABQDB
Owning Component:	Allocation/Unallocation (SC1B4)
Eye-Catcher ID:	QDB Offset: 0 Length: 4
Storage Attributes:	Subpool: Subpool in JSCBSWSP when created by IEFAB4FC. This can be 236, 237, or 241. 230 when created by CNZI1CDP. Key: 1
Size:	80 bytes
Created by:	IEFAB4FC CNZI1CDP (for CONSOLE address space)
Pointed to by:	JSCDSABQ field of the JSCB data area LCTDSABQ field of the LCT data area
Serialization:	SYSZTIOT major name with minor name of the address of DSABQDB and ASID. This resource serializes the DSAB chain in its entirety.
Function:	This macro defines the DSAB queue descriptor block (QDB) for the device allocation routines. Note that the IHAQDB (external macro) is used to access many fields of the DSABQDB, but is a subset of IEFZB4D5.

DSABQDB mapping

Table 718. Structure DSABQDB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DSABQDB	
0	(0)	CHARACTER	4	DSQDBID	ACRONYM IN EBCDIC -QDB-
4	(4)	BITSTRING	2	DSQATTRS	ATTRIBUTES
		1...		DSQRIURB	"X'80'" RIU TABLE NEEDS REBUILDING
		.1..		DSQALLOC	"X'40'" Step is allocated
		..1.		DSQSWARD	"X'20'" SWA has been Read indicator.
		...1		DSQBADBA	"X'10'" ABOVE OR BELOW THE LINE BACKWARD CHAIN INCORRECT
		.... 1...		DSQBADFA	"X'08'" ABOVE OR BELOW THE LINE FORWARD CHAIN INCORRECT
		.... .1..		DSQDSABA	"X'04'" AT LEAST ONE DSAB IS ABOVE THE LINE

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Table 718. Structure DSABQDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'2'	0	DSQCAT	"x'02'" A DSAB with DSABVVDS set on was on the DSAB chain at some point during this job. This bit is managed totally by Catalog code.
6	(6)	SIGNED	2	DSQDBLN	QDB LENGTH
8	(8)	SIGNED	4	DSQNELMS	NUMBER OF ELEMENTS ON QUEUE
12	(C)	ADDRESS	4	DSQFRSTP	POINTER TO FIRST BELOW THE LINE DSAB
		1...		DSQBADBC	"X'80'" BELOW THE LINE BACKWARD CHAIN IS INCORRECT
16	(10)	ADDRESS	4	DSQLASTP	POINTER TO LAST BELOW THE LINE DSAB
		1...		DSQBADFC	"X'80'" BELOW THE LINE FORWARD CHAIN IS INCORRECT
20	(14)	SIGNED	2	DSQFDSP	DISP INTO DSAB FWD PTR
22	(16)	SIGNED	2	DSQBDSP	DISP INTO DSAB BACKWD PTR
24	(18)	SIGNED	4	DSQDCPID	DSAB CELL POOL ID
28	(1C)	ADDRESS	4	DSQRIUTP	POINTER TO RIU TABLE
32	(20)	SIGNED	4	DSQNELMA	NUMBER OF ELEMENTS ON ABOVE OR BELOW THE LINE QUEUE
36	(24)	ADDRESS	4	DSQFRSTA	POINTER TO FIRST ABOVE OR BELOW THE LINE DSAB
40	(28)	ADDRESS	4	DSQLASTA	POINTER TO LAST ABOVE OR BELOW THE LINE DSAB
44	(2C)	SIGNED	2	DSQFDSA	DISPLACEMENT INTO ABOVE OR BELOW THE LINE DSAB POINTER
46	(2E)	SIGNED	2	DSQBDSA	DISPLACEMENT INTO ABOVE OR BELOW THE LINE DSAB POINTER
48	(30)	SIGNED	4	DSQDCPIA	ABOVE OR BELOW THE LINE DSAB CELL POOL ID
52	(34)	SIGNED	4	DSQDDSAM	ADDRESS OF THE DSAB METADATA
56	(38)	SIGNED	4	DSQLASTINUSETABLE	Address of the current Dynamic In-Use Table
60	(3C)	SIGNED	2	DSQLASTINUSEENTRY	Index of the next available Dynamic In-Use entry
62	(3E)	BITSTRING	1	DSQFEATFLAG	Indicates features that have been enabled by the caller (e.g. via IEFDDSRV MODIFY) @L8C
62	(3E)	X'80'	0	DSQMEMDSENQ	"x'80'" Program enabled memory-based SYSDSN ENQ management @L8A
63	(3F)	BITSTRING	1	DSQFEATFLAGHISTORY	Indicates features that have been enabled by the caller at some point in the past, even if they were subsequently disabled. Not separately mapped. Use DSQFeatFlag. Set by IEFDDSRV via OR of DSQFeatFlag @L8A
64	(40)	SIGNED	4		Reserved, was DSQDSEOPtr before DSEO changed to 64-bit. Use DSXDSEOPtr instead.

Table 718. Structure DSABQDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
68	(44)	SIGNED	4	DSQOWNINGTCB@	TCB@ when QDB storage was obtained. Only valid within the address space that owns the QDB (may not be dependable for the QDB created for MASTER address space, which is in common storage)
72	(48)	SIGNED	4	DSQRSV1	Reserved for high half of DSQX pointer
76	(4C)	SIGNED	4	DSQDSQXPTR	Pointer to the above the line extension (optional)

Table 719. Cross Reference for DSABQDB

Name	Offset	Hex Tag
DSABQDB	0	
DSQALLOC	4	40
DSQATTRS	4	
DSQBADBA	4	10
DSQBADBC	C	80
DSQBADFA	4	8
DSQBADFC	10	80
DSQBDSA	2E	
DSQBDSP	16	
DSQCAT	4	2
DSQDBID	0	
DSQDBLN	6	
DSQDCPIA	30	
DSQDCPID	18	
DSQDDSAM	34	
DSQDSABA	4	4
DSQDSQXPTR	4C	
DSQFDSA	2C	
DSQFDSP	14	
DSQFEATFLAG	3E	
DSQFEATFLAGHISTORY	3F	
DSQFRSTA	24	
DSQFRSTP	C	
DSQLASTA	28	
DSQLASTINUSEENTRY	3C	
DSQLASTINUSETABLE	38	
DSQLASTP	10	
DSQMEMDSENQ	3E	80
DSQNELMA	20	
DSQNELMS	8	
DSQOWNINGTCB@	44	
DSQRIURB	4	80
DSQRIUTP	1C	
DSQRSV1	48	
DSQSWARD	4	20

Chapter 167. DSCA Information

DSCA Heading Information

Common Name:	DAE Communication Area
Macro ID:	ADYDSCA
DSECT Name:	DSCA
Owning Component:	DUMP ANALYSIS AND ELIMINATION (SC143)
Eye-Catcher ID:	DSC Offset: 0 Length: 3
Storage Attributes:	Subpool: 239 Key: 0 Residency: BELOW,ANYWHERE ALLOCATION METHOD: GETMAIN FREQUENCY: 1 PER SYSTEM
Size:	LENGTH(DSCA)
Created by:	IEAVTSDI
Pointed to by:	RTCTDSCA
Serialization:	NONE
Function:	Common data area for all DAE functions in the DUMPSRV address space, for predump processing, and for post-dump exit processing.

DSCA mapping

Table 720. Structure DSCA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	192	DSCA	DAE COMMUNICATION AREA
0	(0)	CHARACTER	4	DSCID	MACRO ID
0	(0)	CHARACTER	3	DSCDSC	ACRONYM 'DSC'
3	(3)	CHARACTER	1	DSCVSN	VERSION NUMBER
4	(4)	ADDRESS	4	DSCDFL	ADDRESS OF DFLM (THE CURRENT DAE OPTIONS)
8	(8)	CHARACTER	2	DSCASUFF	START DAE Suffix eg '00'
10	(A)	CHARACTER	10	*	Reserved - available.
20	(14)	ADDRESS	4	DSCHPQP	HIGH PRIORITY TRANSACTION QUEUE HEAD. ELEMENTS ARE ADDED TO THE END AND REMOVED FROM THE HEAD
24	(18)	ADDRESS	4	DSCTRNP	LOW PRIORITY TRANSACTION QUEUE HEAD. ELEMENTS ARE ADDED TO THE END AND REMOVED FROM THE HEAD
28	(1C)	BITSTRING	4	DSCAECB	ECB TO BE POSTED WHENEVER A TRANSACTION IS PUT ONTO DSCHPQP OR DSCTRNP
		1...		DSCWAIT	WAIT BIT
		.1..		DSCPOST	ECB POSTED INDICATOR. IF THIS IS OFF ADYTRNS WILL NOT CHECK FOR TRANSACTIONS ON THE QUEUES.

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Table 720. Structure DSCA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	CHARACTER	8	DSCMAJOR	MAJOR NAME USED TO ENQ ON THE TRANSACTION PROCESSOR QUEUES AND ECB
40	(28)	CHARACTER	8	DSCMINOR	MINOR NAME USED TO ENQ ON THE TRANSACTION PROCESSOR QUEUES AND ECB
48	(30)	ADDRESS	4	DSCDOMP	DOM ID TABLE ADDRESS
52	(34)	CHARACTER	28	DSCSDMP	FIELDS USED BY SDUMP
52	(34)	ADDRESS	4	DSCDSPDP	PTR-PRE-DUMP PARAM LIST=DSPD
56	(38)	ADDRESS	4	DSCHDRP	PTR-SDUMP HEADER RECORD AREA
60	(3C)	CHARACTER	20	*	RESERVED FOR SDUMP USE
80	(50)	CHARACTER	28	DSCMODP	ADDRESSES OF MODULES LOADED OR ZERO
80	(50)	ADDRESS	4	DSCPRED	PTR-ADYPRED- PREDUMP PROCESSOR
84	(54)	ADDRESS	4	DSCEXT	PTR-SYMPTOM EXTRACTION PROGRAM
88	(58)	ADDRESS	4	*	RESERVED
92	(5C)	ADDRESS	4	*	RESERVED
96	(60)	ADDRESS	4	*	RESERVED
100	(64)	ADDRESS	4	*	RESERVED
104	(68)	ADDRESS	4	*	RESERVED
108	(6C)	BITSTRING	1	DSCFLG1	DAE FLAGS
		1...		DSCFTRNS	Set on to indicate that ADYTRNS is not able to process x-actions due to a failure or not yet had a chance to complete initialization.
		.1..		DSCFIRSTINITCOMPLETE	Set on to indicate that DAE has successfully initialized through a SET DAE command once during an IPL.
109	(6D)	BITSTRING	1	DSCFLG2	FLAGS
110	(6E)	SIGNED	2	*	RESERVED.
112	(70)	BITSTRING	8	DSCGLBST	Most Recent Globalstop Time Stamp
120	(78)	CHARACTER	8	*	Reserved - Can Be Used Stamp
128	(80)	BITSTRING	8	DSCGLOBT	Most Recent Global Time Stamp Stamp
136	(88)	ADDRESS	4	DSCMHPQP	Message exit high priority Transaction queue head. Elements are added to the front of the queue via CS.
140	(8C)	ADDRESS	4	DSCMTRNP	Message exit low priority Transaction queue head. Elements are added to the front of the queue via CS.
144	(90)	CHARACTER	24	DSCSQSVC	Symptom Queue Control-SVC DUMP This symptom queue contains elements from SVC Dumps. The storage is Fixed Common. This area is mapped by the DSCSYMPQ.

Table 720. Structure DSCA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
168	(A8)	CHARACTER	24	DSCSQSYS	Symptom Queue Control-SYSMDUMPs This symptom queue contains symptoms from ABDUMPs, therefore the storage can be CSA/ECSA. This area is mapped by the DSCSYMPQ.

Table 721. Structure DSCSYMPQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	24	DSCSYMPQ	SERIALIZATION FOR ALL SYMPTOM QUEUE ELEMENTS BOTH ON THE QUEUE AND OFF. SEE MAPPING ADYSYMP FOR DETAILS of the SQ executable macro.
0	(0)	CHARACTER	8	DSCSYMP	
0	(0)	BITSTRING	2	DSCQFLG	
	1...			DSCSQVAL	ON=THE QUEUE IS VALID AND MAY BE USED. OFF=THE QUEUE MAY NOT BE USED.
2	(2)	SIGNED	2	DSCSYMPC	COUNT OF CURRENT SYMPTOM QUEUE USERS
4	(4)	ADDRESS	4	DSCSYMPP	ANCHOR FOR SYMPQ-ANY REFERENCE TO THIS QUEUE MUST BE SERIALIZED -SEE ADYSYMP. NEW ELEMENTS ARE ADDED TO THE HEAD.
8	(8)	CHARACTER	4	DSCCPID	CELL POOL ID FOR SYMPTOM QUEUE OR 0
12	(C)	SIGNED	2	DSCCPLST	COUNT OF THE NUMBER OF TIMES THE SYMPTOM QUEUE CPOOL WAS LOST (SYSMDUMP queue)
14	(E)	CHARACTER	2	*	Reserved
16	(10)	UNSIGNED	4	DSCCPCT	Number of available cells in the CPOOL.
20	(14)	CHARACTER	4	*	Reserved

Table 722. Structure DSCDOMID

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	20	DSCDOMID	TABLE OF DOM IDS
0	(0)	SIGNED	4	DSC010E	DOMID FOR MESSAGE ADY010E
4	(4)	SIGNED	4	DSC011EOR016E	DOMID FOR MESSAGE ADY011E or ADY016E
8	(8)	SIGNED	4	DSC014E	DOMID FOR MESSAGE ADY014E
12	(C)	SIGNED	4	DSC005E	DOMID FOR MESSAGE ADY005E
16	(10)	SIGNED	4	DSC006E	DOMID FOR MESSAGE ADY006E

DSCA mapping

Table 723. Constants for DSCA

Len	Type	Value	Name	Description
4	CHARACTER	DSC1	DSCVSNC	NAME AND VERSION NUMBER TO BE PLACED IN DSCID WHEN THIS DATAAREA IS CREATED

Table 724. Cross Reference for DSCA

Name	Offset	Hex Tag
DSCA	0	
DSCAECB	1C	
DSCASUFF	8	
DSCCPCT	10	
DSCCPID	8	
DSCCPLST	C	
DSCDFL	4	
DSCDOMID	0	
DSCDOMP	30	
DSCDSC	0	
DSCDSPDP	34	
DSCEXT	54	
DSCFIRSTINITCOMPLETE	6C	40
DSCFLG1	6C	
DSCFLG2	6D	
DSCFTRNS	6C	80
DSCGLBST	70	
DSCGLOBT	80	
DSCHDRP	38	
DSCHPQP	14	
DSCID	0	
DSCMAJOR	20	
DSCMHPQP	88	
DSCMINOR	28	
DSCMODP	50	
DSCMTRNP	8C	
DSCPOST	1C	40
DSCPRED	50	
DSCQFLG	0	
DSCSDMP	34	
DSCSQSVC	90	
DSCSQSYS	A8	
DSCSQVAL	0	80
DSCSYMP	0	
DSCSYMPC	2	
DSCSYMPP	4	
DSCSYMPQ	0	
DSCTRNP	18	
DSCVSN	3	
DSCWAIT	1C	80
DSC005E	C	
DSC006E	10	
DSC010E	0	

Table 724. Cross Reference for DSCA (continued)

Name	Offset	Hex Tag
DSC011EOR016E	4	
DSC014E	8	

Chapter 168. DSD Information

DSD Programming Interface Information

DSD is a programming interface.

DSD Heading Information

Common Name:	DISPATCHABILITY SERVICE DATA AREA
Macro ID:	IHADSD
DSECT Name:	DSD DSDELEM
Owning Component:	SUPERVISOR CONTROL (SC1C5)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: ANY Key: 0 Residency: ABOVE OR BELOW 16M LINE IN VIRTUAL STORAGE
Size:	208 BYTES PLUS 4 BYTES TIMES ASVTMAXU (POTENTIAL NUMBER OF ADDRESS SPACES)
Created by:	THE CALLER OF IEAMRMF3 MUST OBTAIN THE STORAGE FOR THIS DATAAREA. THE LENGTH OF THE AREA SHOULD BE THE LENGTH OF DSDFIXED PLUS ASVTMAXU*4. NO OTHER INITIALIZATION OF THE DATA AREA IS REQUIRED OF THE CALLER.
Pointed to by:	N/A
Serialization:	OWNER-SERIALIZED.
Function:	MAP OF THE DATA AREA PASSED TO THE IEAMRMF3 SERVICE BY ITS CALLER. IEAMRMF3 PROVIDES DATA ABOUT THE DISPATCHABILITY OF ADDRESS SPACES. IT USES PART OF THE DATA AREA AS A WORKAREA. THE REST CONTAINS THE OUTPUT OF THE IEAMRMF3 SERVICE.

DSD mapping

Table 725. Structure DSD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DSD	
0	(0)	CHARACTER	208	DSDFIXED(0)	FIXED LENGTH PART OF THE DSD
0	(0)	ADDRESS	4	DSDAPTR	ADDRESS OF THE ARRAY WHICH CONTAINS THE ADDRESS SPACE DISPATCHABILITY DATA
4	(4)	SIGNED	2	DSDINDXF	INDEX OF THE FIRST FILLED ARRAY ELEMENT. (CONTAINS X'FFFF', IF NONE ARE FILLED.)
6	(6)	SIGNED	2	DSDR006	RESERVED
8	(8)	CHARACTER	200	DSDAUTO	WORKAREA FOR THE IEAMRMF3 SERVICE
208	(D0)	ADDRESS	4	DSDARRAY(0)	ARRAY OF 4-BYTE ENTRIES

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DSD mapping

Table 726. Structure DSDELEM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DSDELEM	
0	(0)	SIGNED	2	DSDINDXN	INDEX OF THE NEXT FILLED ARRAY ELEMENT. (CONTAINS X'FFFF', IF IT IS THE LAST FILLED ELEMENT.)
2	(2)	BITSTRING	1	DSDSTATE	FLAG BYTE TO INDICATE DISPATCH-ABILITY OF THE ADDRESS SPACE
		1...		DSDUSING	"X'80'" ADDRESS SPACE IS DISPATCHABLE AND RUNNING ON A PROCESSOR
		.1..		DSDWAIT	"X'40'" ADDRESS SPACE IS DISPATCHABLE AND IS WAITING TO RUN ON A PROCESSOR
		..1.		DSDREADY	"X'20'" ADDRESS SPACE IS DISPATCHABLE AND IS WAITING TO RUN ON THE PROCESSOR EXCERCISING THE IEAVERMF SERVICE
		...1		DSDTCBRY	"X'10'" ADDRESS SPACE HAS A READY TCB THAT IS THE NEXT WORK TO RUN ON THE PROCESSOR EXCERCISING THE IEAVERMF SERVICE
3	(3)	BITSTRING	1	DSDRSVD	RESERVED BYTE

Table 727. Cross Reference for DSD

Name	Offset	Hex Tag
DSD	0	
DSDAPTR	0	
DSDARRAY	D0	
DSDAUTO	8	
DSDELEM	0	
DSDFIXED	0	
DSDINDXF	4	
DSDINDXN	0	
DSDREADY	2	20
DSDRSVD	3	
DSDR006	6	
DSDSTATE	2	
DSDTCBRY	2	10
DSDUSING	2	80
DSDWAIT	2	40

Chapter 169. DSERV Information

DSERV Programming Interface Information

DSERV is a programming interface.

DSERV Heading Information

Common Name:	JES Job Information Service Token List
Macro ID:	IAZDSERV
DSECT Name:	DSERV
Owning Component:	JES Common (SC141)
Eye-Catcher ID:	DSRV Offset: DSRVSSID Length: L'DSRVSSID
Storage Attributes:	Subpool: caller Key: 1, caller must be in key 1 Residency: Virtual = any real = any
Size:	See DSRVSZE
Created by:	caller of SSI function 'SSOBSSJI' = 71
Pointed to by:	SSJIUSER in the SSOB extension
Serialization:	None
Function:	This macro provides the mapping of the parameter list used by authorized programs to request Job Information Service from the JES checkpoint data space.

DSERV mapping

Table 728. Structure DSERV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DSERV	
0	(0)	CHARACTER	4	DSRVSSID	CONTROL BLOCK IDENTIFIER
4	(4)	ADDRESS	2	DSRVLEN	LENGTH OF DSERV TOKEN AREA
6	(6)	SIGNED	2	DSRVSVRN	SERVICE VERSION NUMBER
6	(6)	X'1'	0	DSRVSVR1	"1" Service version number of IAZDSERV - Version 4.1.0
6	(6)	X'2'	0	DSRVSVR2	"2" Service version number of IAZDSERV - Version 5.2.0
6	(6)	X'3'	0	DSRVSVR3	"3" Service version number of IAZDSERV - z/OS 1.2
6	(6)	X'4'	0	DSRVSVR4	"4" Service version number of IAZDSERV - z/OS 1.7
6	(6)	X'5'	0	DSRVSVR5	"5" Service version number of IAZDSERV - OA26875
6	(6)	X'6'	0	DSRVSVR6	"6" Service version number of IAZDSERV - z/OS 1.11
6	(6)	X'7'	0	DSRVSVR7	"7" Service version number of IAZDSERV - z/OS 1.13

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Table 728. Structure DSERV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
6	(6)	X'8'	0	DSRVSVR8	"8" Service version number of IAZDSERV - z/OS 2.1
6	(6)	X'9'	0	DSRVSVR9	"9" Service version number of IAZDSERV - z/OS 2.2
6	(6)	X'9'	0	DSRVSVR#	"9" Service version number of IAZDSERV - Latest Version DSRVSVRN MUST BE SET TO DSVRSVR#
6	(6)	X'8'	0	DSRVUSER	"*"
8	(8)	ADDRESS	4	DSRVCVPT	RESERVED FOR SUBSYSTEM USE
12	(C)	SIGNED	4	DSRVCNUM	RESERVED FOR SUBSYSTEM USE
16	(10)	DBL WORD	8	DSRVJOTK(0)	JOT TOKEN
16	(10)	ADDRESS	4	DSRVJOPT	POINTER TO JOT
20	(14)	SIGNED	4	DSRVJOAL	ALET OF JOT
24	(18)	DBL WORD	8	DSRVJQTK(0)	JQE TOKEN
24	(18)	ADDRESS	4	DSRVJQPT	POINTER TO JQE
28	(1C)	SIGNED	4	DSRVJQAL	ALET OF JQE
32	(20)	DBL WORD	8	DSRVQSTK(0)	QSE TOKEN
32	(20)	ADDRESS	4	DSRVQSPT	POINTER TO QSE
36	(24)	SIGNED	4	DSRVQSAL	ALET OF QSE
40	(28)	DBL WORD	8	DSRVHCTK(0)	HCT TOKEN
40	(28)	ADDRESS	4	DSRVHCPT	POINTER TO HCT
44	(2C)	SIGNED	4	DSRVHCAL	ALET OF HCT
48	(30)	DBL WORD	8	DSRVTIME	TIME STAMP
48	(30)	X'38'	0	DSRVSZE1	"*-DSERV" DSERV Version 1 fixed parameter length
56	(38)	DBL WORD	8	DSRVJNTK(0)	JNT TOKEN
56	(38)	ADDRESS	4	DSRVJNPT	POINTER TO JNT
60	(3C)	SIGNED	4	DSRVJNAL	ALET OF JNT
60	(3C)	X'40'	0	DSRVSZE2	"*-DSERV" DSERV Version 2 fixed parameter length
64	(40)	DBL WORD	8	DSRVJQXK(0)	JQX token
64	(40)	ADDRESS	4	DSRVJXPT	Pointer to JQX
68	(44)	SIGNED	4	DSRVJXAL	ALET of JQX
72	(48)	DBL WORD	8	DSRVJTTK(0)	JQE trackgroup extension token
72	(48)	ADDRESS	4	DSRVJTPT	Pointer to JQE trkg ext
76	(4C)	SIGNED	4	DSRVJTAL	ALET of JQE trkg ext
80	(50)	DBL WORD	8	DSRVDASK(0)	DAS token
80	(50)	ADDRESS	4	DSRVDAPT	Pointer to DAS
84	(54)	SIGNED	4	DSRVDAAL	ALET of DAS
84	(54)	X'58'	0	DSRVSZE3	"*-DSERV" DSERV Version 3 fixed parameter length
88	(58)	BITSTRING	1	DSRVFLG1	DSERV flags
		1...		DSRVF1LI	"B'10000000'" Use live version
		The following flags will cause the version request to be delayed until the latest information is available from JES2. Setting these bits can result in additional processing overhead in JES2. Setting DSRVF1LI overrides this request.			
		.1..		DSRVF1WS	"B'01000000'" Wait for latest MAS level version
		..1.		DSRVF1WB	"B'00100000'" Wait for latest member level version
89	(59)	BITSTRING	1	DSRVJ2LV	Checkpoint level ($MSTRVER)

Table 728. Structure DSERV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
90	(5A)	BITSTRING	6		Reserved for future use
90	(5A)	X'60'	0	DSRVSZE4	"*-DSERV" DSERV Version 4 fixed parameter length
96	(60)	DBL WORD	8	DSRVWQSK(0)	WLM Q position token
96	(60)	ADDRESS	4	DSRVWQST	Pointer to WQPOS
100	(64)	SIGNED	4	DSRVWQSL	ALET of WQPOS
100	(64)	X'68'	0	DSRVSZE5	"*-DSERV" DSERV Version 5 fixed parameter length
104	(68)	DBL WORD	8	DSRVJOXK(0)	JOX token
104	(68)	ADDRESS	4	DSRVOXPT	Pointer to JOX
108	(6C)	SIGNED	4	DSRVOXAL	ALET of JOX
112	(70)	ADDRESS	4	DSRVCNPT	RESERVED FOR SUBSYSTEM USE
112	(70)	X'74'	0	DSRVSZE6	"*-DSERV" DSERV Version 6 fixed parameter length
116	(74)	ADDRESS	4		Reserved for future use
120	(78)	DBL WORD	8	DSRVTGMK(0)	TGM token
120	(78)	ADDRESS	4	DSRVTGPT	Pointer to TGM
124	(7C)	SIGNED	4	DSRVTGAL	ALET of TGM
124	(7C)	X'80'	0	DSRVSZE7	"*-DSERV" DSERV Version 7 fixed parameter length
128	(80)	CHARACTER	8		Reserved for future use.
136	(88)	ADDRESS	4	DSRVCATC	Pointer to CAT/GRPOBJ cache if NOT a live version and cache is requested.
136	(88)	X'8C'	0	DSRVSZE8	"*-DSERV" DSERV Version 8 fixed parameter length
140	(8C)	CHARACTER	4		Reserved for future use.
144	(90)	DBL WORD	8	DSRVZJTK(0)	ZJC Token
144	(90)	ADDRESS	4	DSRVZJPT	Pointer to ZJC
148	(94)	SIGNED	4	DSRVZJAL	ALET of ZJC
148	(94)	X'98'	0	DSRVSZE9	"*-DSERV" DSERV Version 9 fixed parameter length
148	(94)	X'98'	0	DSRVSZE	"*-DSERV" DSERV Current version fixed parameter length

Table 729. Cross Reference for DSERV

Name	Offset	Hex Tag
DSERV	0	
DSRVCATC	88	
DSRVCNPT	70	
DSRVCNUM	C	
DSRVCVPT	8	
DSRVDAAL	54	
DSRVDAPT	50	
DSRVDASK	50	
DSRVFLG1	58	
DSRVF1LI	58	80
DSRVF1WB	58	20
DSRVF1WS	58	40
DSRVHCAL	2C	
DSRVHCPT	28	

Table 729. Cross Reference for DSERV (continued)

Name	Offset	Hex Tag
DSRVHCTK	28	
DSRVJNAL	3C	
DSRVJNPT	38	
DSRVJNTK	38	
DSRVJOAL	14	
DSRVJOPT	10	
DSRVJOTK	10	
DSRVJOXK	68	
DSRVJQAL	1C	
DSRVJQPT	18	
DSRVJQTK	18	
DSRVJQXK	40	
DSRVJTAL	4C	
DSRVJTPT	48	
DSRVJTTK	48	
DSRVJXAL	44	
DSRVJXPT	40	
DSRVJ2LV	59	
DSRVLEN	4	
DSRVOXAL	6C	
DSRVOXPT	68	
DSRVQSAL	24	
DSRVQSPT	20	
DSRVQSTK	20	
DSRVSSID	0	C4E2D9E5
DSRVSVR#	6	9
DSRVSVRN	6	
DSRVSVR1	6	1
DSRVSVR2	6	2
DSRVSVR3	6	3
DSRVSVR4	6	4
DSRVSVR5	6	5
DSRVSVR6	6	6
DSRVSVR7	6	7
DSRVSVR8	6	8
DSRVSVR9	6	9
DSRVSZE	94	98
DSRVSZE1	30	38
DSRVSZE2	3C	40
DSRVSZE3	54	58
DSRVSZE4	5A	60
DSRVSZE5	64	68
DSRVSZE6	70	74
DSRVSZE7	7C	80
DSRVSZE8	88	8C
DSRVSZE9	94	98
DSRVTGAL	7C	
DSRVTGMK	78	
DSRVTGPT	78	

Table 729. Cross Reference for DSERV (continued)

Name	Offset	Hex Tag
DSRVTIME	30	
DSRVUSER	6	8
DSRVWQSK	60	
DSRVWQSL	64	
DSRVWQST	60	
DSRVZJAL	94	
DSRVZJPT	90	
DSRVZJTK	90	

Chapter 170. DSNT Information

DSNT Heading Information

Common Name:	Data Set Name Table
Macro ID:	IEFDSNT
DSECT Name:	DSNTABLE
Owning Component:	Converter/interpreter (SC1B9)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 236 or 237 Key: 1
Size:	Variable to 176 bytes
Created by:	Interpreter
Pointed to by:	SCTADSTB field of the SCT data area
Serialization:	N/A
Function:	The DSNT contains the volume reference data set names for a jobstep.

DSNT mapping

Table 730. Structure DSNTABLE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	176	DSNTABLE	DSN TABLE Y02668
0	(0)	CHARACTER	3	DSNTSVA	SVA OF THIS RECORD Y02668
3	(3)	CHARACTER	1	DSNTID	TABLE ID Y02668
4	(4)	CHARACTER	3	DSNTNSVA	SVA OF NEXT RECORD Y02668
7	(7)	CHARACTER	1	*	RESERVED Y02668
8	(8)	CHARACTER	168	DSNENTRY	DATA SET NAMES Y02668

Table 731. Constants for DSNT

Len	Type	Value	Name	Description
1	HEX	07	DSNTTID	TABLE ID X'07' Y02668
4	DECIMAL	168	DSNTBLN	LENGTH OF DSNAME Y02668
4	DECIMAL	176	DSNTLN	LENGTH OF DSN TABLE Y02668

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Chapter 171. DSPD Information

DSPD Heading Information

Common Name:	DAE PREDUMP/POSTDUMP PARAMETER LIST
Macro ID:	ADYDSPD
DSECT Name:	DSPD
Owning Component:	DAE (SC143)
Eye-Catcher ID:	DSP Offset: 0 Length: 3
Storage Attributes:	Key: 0 Residency: ABOVE 16M
Size:	106 BYTES
Created by:	IEAVTSDI IEAVTSYS, (FOR SYSMDUMP) VIA GETMAIN
Pointed to by:	SDDDSPD
Serialization:	NOT REQUIRED.
Function:	COMMUNICATION BETWEEN SDUMP AND DAE DURING PREDUMP PROCESSING, AND BETWEEN DAE PREDUMP AND DAE POST DUMP PROCESSING.

DSPD mapping

Table 732. Structure DSPD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DSPD	PRE-DUMP PARAMETER LIST
0	(0)	CHARACTER	4	DSPID(0)	MACRO ID
0	(0)	CHARACTER	3	DSPDSP	ACRONYM='DSP'
3	(3)	CHARACTER	1	DSPVSN	VERSION NUMBER
4	(4)	SIGNED	4	DSPSDWA	PTR-SDWA OR ZERO
8	(8)	SIGNED	4	DSPABDP	PTR-SYMPTOMS FROM SYSMDUMP UNUSED FOR SVCDUMP
12	(C)	SIGNED	4	DSPHDR	POINTER TO DUMP HEADER RECORD
16	(10)	SIGNED	4	DSPEXTRC	RETURN CODE FROM ADYEXT
20	(14)	CHARACTER	10	DSPERID(0)	ERROR-ID FROM CURRENT PROBLEM
20	(14)	CHARACTER	2	DSPESEQ#	SEQUENCE NUMBER
22	(16)	CHARACTER	2	DSPECPUI	LOGICAL CPUID
24	(18)	CHARACTER	2	DSPEERAS	ASID FOR ERROR MEMORY
26	(1A)	CHARACTER	4	DSPEERTM	TIME STAMP AT TIME OF ERROR
30	(1E)	SIGNED	2	DSPSCNT	COUNT OF SYMPTOMS
32	(20)	SIGNED	2	DSPSLN	LENGTH OF SYMPTOM STRING INCLUDING A TRAILING BLANK
34	(22)	CHARACTER	20	DSPPSVD1	RESERVED FOR DAE USE
54	(36)	CHARACTER	20	DSPPSVD2	RESERVED FOR SDUMPS USE
74	(4A)	BITSTRING	2	DSPFLG1	FLAGS SET BY SVC DUMP
		1...		DSPSVC	"BIT0" SVC DUMP BEING PROCESSED
		.1..		DSPSYSM	"BIT1" SYSMDUMP DUMP BEING PROCESSED

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Table 732. Structure DSPD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		DSPSDS	"BIT2" SDUMP FAILED TO TAKE COMPLETE DUMP. DID TAKE A PARTIAL
		...1		DSPTERM	"BIT3" SDUMP FAILED TO TAKE ANY DUMP SO THE DATASET IS STILL EMPTY
		.... 1...		DSPSDMPH	"BIT4" SDUMP has updated its header information
76	(4C)	BITSTRING	2	DSPFLG2	FLAGS SET BY DAE
		1...		DSPNOAVL	"BIT0" 1=ADD ENTRY TO SYMPTOM QUEUE ALL QUEUE AREAS ARE EXHAUSTED
78	(4E)	CHARACTER	8	DSPSTAT	STATUS BITS FOR DAE TO BE COPIED INTO AMDDATA FIELD S05STAT. MAPPED BY ADYDSTAT
	DS CL2 RESERVED				
88	(58)	SIGNED	4	DSPSYMP	POINTER TO A SYMPTOM RECORD SUPPLIED AS INPUT TO SDUMP.
92	(5C)	CHARACTER	14		RESERVED

Table 733. Cross Reference for DSPD

Name	Offset	Hex Tag
DSPABDP	8	
DSPD	0	
DSPDSP	0	
DSPECPUI	16	
DSPEERAS	18	
DSPEERTM	1A	
DSPERID	14	
DSPESEQ#	14	
DSPEXTRC	10	
DSPFLG1	4A	
DSPFLG2	4C	
DSPHDR	C	
DSPID	0	
DSPNOAVL	4C	80
DSPPSVD1	22	
DSPPSVD2	36	
DSPSCNT	1E	
DSPSDMPH	4A	8
DSPSDS	4A	20
DSPSDWA	4	
DSPSLN	20	
DSPSTAT	4E	
DSPSVC	4A	80
DSPSYMP	58	
DSPSYSM	4A	40
DSPTERM	4A	10
DSPVSN	3	

Chapter 172. DSTAT Information

DSTAT Programming Interface Information

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

- DSTSEXT2

DSTAT Heading Information

Common Name:	DAE Action Status
Macro ID:	ADYDSTAT
DSECT Name:	DSTAT
Owning Component:	DUMP ANALYSIS AND ELIMINATION (SC143)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: User Supplied Key: User Supplied Residency: User Supplied ALLOCATION METHOD: User Supplied
Size:	8
Created by:	N/A
Pointed to by:	N/A
Serialization:	NONE
Function:	Map the dump status fields in the: - DAE control block DSPD - DPSTAT - SDWA - SDWADAE - Dump header record - DAESTAT

DSTAT mapping

Table 734. Structure DSTAT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DSTAT	, DUMP STATUS
0	(0)	CHARACTER	4	DSTDUMP(0)	REASONS FOR TAKING THE DUMP
0	(0)	CHARACTER	2	DSTDUMPM(0)	REASONS FOR TAKING THE DUMP THAT HAVE NO EFFECT ON MATCHING
0	(0)	BITSTRING	1	DSTDMPM1	FIRST BYTE OF FLAGS THAT HAVE NO EFFECT ON MATCHING
		1...		DSTUNIQ	"BIT0" NO MATCHING SYMPTOM STRING WAS FOUND ON THE QUEUE.
		.1..		DSTSLNOS	"BIT1" THE SLIP ACTION=NOSUP
		..1.		DSTSLIPD	"BIT2" THE DUMP WAS REQUESTED BY SLIP WITH ACTION=SVCDUMP OR TRDUMP
		...1		DSTNOS	"BIT3" DAE IS NOT SUPPRESSING THIS TYPE OF DUMP
		.... 1...		DSTERPRE	"BIT4" AN ERROR OCCURRED DURING PRE-DUMP PROCESSING
		.... .1..		DSTPSUP	"BIT5" PREVENT SUPPRESSION FLAG IN THE ABSENSE OF VRANODAE AND SUPPRESSALL DAE OPTION

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Table 734. Structure DSTAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		DSTNOSUP	"BIT6" RECOVERY ROUTINE INDICATED NOT TO ALLOW SUPPRESSION
		1		DSTTKDMP	"BIT7" THE INSTALLATION EXPLICITLY REQUESTED THAT THIS DUMP BE TAKEN
1	(1)	BITSTRING	1	DSTDMPM2	SECOND BYTE OF FLAGS THAT HAVE NO EFFECT ON MATCHING
		1...		DSTDAEN	"BIT0" THIS SYMPTOM RECORD IS NOT TO BE USED FOR DUMP SUPPRESSION
		.1..		DST06F	"BIT1" This dump was not suppressed because the system allows all dumps with ABEND Code 06F (Which come from SLIP ACTION= RECOVERY).
		..1.		DSTPARTL	"BIT2" This dump was not suppressed because it was partial
2	(2)	CHARACTER	2	DSTDUMPN(0)	REASONS FOR TAKING THE DUMP WHERE NO MATCHING WILL BE DONE
2	(2)	BITSTRING	1	DSTDMPN1	FIRST BYTE OF FLAGS CONTAINING REASONS FOR TAKING THE DUMP WHERE NO MATCHING WILL BE DONE
		1...		DSTNSYMP	"BIT0" NO DATA WAS AVAILABLE TO EXTRACT SYMPTOMS FROM
		.1..		DSTEREXT	"BIT1" THE EXTRACT ROUTINE ADYEXT FAILED
		..1.		DSTNODAE	"BIT2" PREDUMP COULD NOT ACCESS THE SYMPTOM QUEUE BECAUSE DAE WAS NOT ACTIVE
		...1		DSTNOREQ	"BIT3" ALL REQUIRED SYMPTOMS WERE NOT FOUND
		.... 1...		DSTNOMAT	"BIT4" MATCHING NOT REQUESTED
		.... .1..		DSTNOSLN	"BIT5" THE LENGTH OF THE MVS SYMPTOM STRING IS LESS THAN THE MINIMUM REQUIRED LENGTH
		.... ..1.		DSTNOSCT	"BIT6" THE COUNT OF SYMPTOMS FOUND IS LESS THAN THE MINIMUM COUNT REQUIRED
		1		DSTTRREQ	"BIT7" THE TRUNCATION OF THE SYMPTOM STRING CAUSED A REQUIRED SYMPTOM TO BE TRUNCATED
3	(3)	BITSTRING	1	DSTDMPN2	SECOND BYTE OF FLAGS CONTAINING REASONS FOR TAKING THE DUMP WHERE NO MATCHING WILL BE DONE
		1...		DSTERMCT	"BIT0" THE VRA CONTAINS A VRAMINSC KEY WHICH HAS AN INVALID AMOUNT SPECIFIED FOR THE MINIMUM NUMBE OF SYMPTOMS REQUIRED FOR UNIQUE DUMP ID.

Table 734. Structure DSTAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		DSTERMLN	"BIT1" THE VRA CONTAINS A VRAMINSL KEY WHICH HAS AN INVALID SPECIFICATION FOR THE MINIMUM SYMPTOM STRING LENGTH REQUIRED FOR UNIQUE DUMP ID
		..1.		DSTERREQ	"BIT2" THE VRA CONTAINS A VRAREQ KEY WHICH HAS IN ITS LIST OF SYMPTOMS TO BE ADDED TO THE REQUIRED LIST, ONE OR MORE INVALID KEYS.
4	(4)	BITSTRING	1	DSTINFO	MISCELLANEOUS FLAGS
		1...		DSTSDUP	"BIT0" THE DUMP WAS SUPPRESSED BECAUSE A MATCH WAS FOUND
		.1..		DSTTRUM	"BIT1" MVS SYMPTOM STRING TRUNCATED TO 150 BYTES
		..1.		DSTDUP	"BIT2" DUPLICATE FOUND
		...1		DSTTRUR	"BIT3" RETAIN SYMPTOM STRING TRUNCATED TO 150 BYTES
		.... 1...		DSTHDROK	"BIT4" DAE HEADER BUILT SUCCESSFULLY
		.... .1..		DSTUSYMR	"BIT5" SYMPTOM STRINGS CREATED FROM A USER SYMPTOM RECORD.
		.... ..1.		DSTTRUS	"BIT6" USER SECONDARY SYMPTOM STRING WAS TRUNCATED
		1		DSTSCDUP	"BIT7" THE DUMP WAS SUPPRESSED BECAUSE A MATCH WAS FOUND ON THE CAPTURED DUMP QUEUE
5	(5)	CHARACTER	2	DSTSEXT(0)	ERRORS FROM SYMPTOM EXTRACTION
5	(5)	BITSTRING	1	DSTSEXT1	SYMPTOM EXTRACT FLAG BYTE ONE
		1...		DSTEROPT	"BIT0" THE VRA CONTAINS A VRAREQ KEY WHICH HAS IN ITS LIST OF SYMPTOMS TO BE ADDED TO THE OPTIONAL LIST, ONE OR MORE INVALID KEYS
		.1..		DSTERSDL	"BIT1" THE SDWAURAL OR SDWAVRAL VALUE IS INVALID
6	(6)	BITSTRING	1	DSTSEXT2	ERROR CONDITION IN ADYEXT
		1...		DSTERMAP	"BIT0" MAPX TABLE OVERFLOW
		.1..		DSTERUDT	"BIT1" UNKNOWN DATA TYPE FLAGS IN ADYEXTD TABLE
		..1.		DSTEREQO	"BIT2" DSXREQ OVERFLOW
		...1		DSTEOPTO	"BIT3" DSXOPT OVERFLOW
		.... 1...		DSTECVTO	"BIT4" CONVERSION AREA OVERFLOW
		.... .1..		DSTEDSXO	"BIT5" DSXTBLZ TABLE OVERFLOW
7	(7)	CHARACTER	1		RESERVED

Table 735. Cross Reference for DSTAT

Name	Offset	Hex Tag
DSTAT	0	
DSTDAEN	1	80
DSTDMPM1	0	
DSTDMPM2	1	

Table 735. Cross Reference for DSTAT (continued)

Name	Offset	Hex Tag
DSTDMPN1	2	
DSTDMPN2	3	
DSTDUMP	0	
DSTDUMPM	0	
DSTDUMPN	2	
DSTDUP	4	20
DSTECVTO	6	8
DSTEDSXO	6	4
DSTEOPTO	6	10
DSTEREQO	6	20
DSTEREXT	2	40
DSTERMAP	6	80
DSTERMCT	3	80
DSTERMLN	3	40
DSTEROPT	5	80
DSTERPRE	0	8
DSTERREQ	3	20
DSTERSDL	5	40
DSTERUDT	6	40
DSTHDROK	4	8
DSTINFO	4	
DSTNODAE	2	20
DSTNOMAT	2	8
DSTNOREQ	2	10
DSTNOS	0	10
DSTNOSCT	2	2
DSTNOSLN	2	4
DSTNOSUP	0	2
DSTNSYMP	2	80
DSTPARTL	1	20
DSTPSUP	0	4
DSTSCDUP	4	1
DSTSDUP	4	80
DSTSEXT	5	
DSTSEXT1	5	
DSTSEXT2	6	
DSTSLIPD	0	20
DSTSLNOS	0	40
DSTTKDMP	0	1
DSTTRREQ	2	1
DSTTRUM	4	40
DSTTRUR	4	10
DSTTRUS	4	2
DSTUNIQ	0	80
DSTUSYMR	4	4
DST06F	1	40

Chapter 173. DSVCB Information

DSVCB Heading Information

Common Name: DUMPING SERVICES CONTROL BLOCK
Macro ID: IHADSVCB
DSECT Name: DSVCB
Owning Component: SVC Dump (SCDMP)
Eye-Catcher ID: DSV
Offset: 0
Length: 4
Storage Attributes: Main Storage: One per system
Subpool: 227
Key: 0
Residency: Below 16M
Size: 228 bytes (use macro variable DSVLEN)
Created by: IEAVTSDI
Pointed to by: RTCTDSV
Serialization: None
Function: IHADSVCB IS A MAPPING MACRO WHICH MAPS STORAGE USED TO CONTROL THE ACTIVITIES IN THE DUMPING SERVICES (DUMPSRV) ADDRESS SPACE.
THERE ARE eight SECTIONS IN THE DSVCB.
1. MAIN SECTION CONTAINS POINTERS TO THE OTHER SECTIONS AND A CONTROL BLOCK IDENTIFIER.
2. COMMON SECTION CONTAINS FIELDS FOR CONTROL OF THE DUMPSRV ADDRESS SPACE.
3. DUMP DATA SET SECTION CONTAINS VARIABLES USED IN INITIALIZING AND PROCESSING THE DUMP DATA SETS.
4. EXIT SECTION CONTAINS VARIABLES USED IN PROCESSING POST DUMP EXITS.
5. DAE SECTION CONTAINS INFORMATION USED TO CONTROL THE DAE TRANSACTION PROCESSOR.
6. SDS SECTION CONTAINS INFORMATION USED TO CONTROL THE IEAVTSDS TASK IN DUMPSRV.
7. SST section contains information used to control the Dump Index Task.
8. TDMP section contains information used to control the TDump task in DUMPSRV.

DSVCB mapping

Table 736. Structure DSVCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	32	DSVCB	SDUMP DUMP DATA SET QUEUE
0	(0)	CHARACTER	4	DSVID	IDENTIFIER=DSV
4	(4)	ADDRESS	4	DSVPCOMM	POINTER TO COMMON SECTION WHICH IS USED FOR DUMPSRV ADDRESS SPACE CONTROL
8	(8)	ADDRESS	4	DSVPDDS	POINTER TO DUMP DATA SET SECTION

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Table 736. Structure DSVCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	ADDRESS	4	DSVPEXIT	POINTER TO THE POST DUMP EXIT SECTION
16	(10)	ADDRESS	4	DSVPDAE	POINTER TO DAE SECTION
20	(14)	ADDRESS	4	DSVPSDS	POINTER TO IEAVTSDS SECTION
24	(18)	ADDRESS	4	DSVSST@	POINTER TO IEAVTSST SECTION
28	(1C)	ADDRESS	4	DSVTDMP	Pointer to TDump task section

Table 737. Structure DSVCOMM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	24	DSVCOMM	DUMPSRV ADDRESS SPACE COMMON SECTION
0	(0)	CHARACTER	4	DSVCFLGS	FLAGS FOR COMMON SECTION
0	(0)	CHARACTER	1	DSVCFLG1	1ST COMMON FLAG BYTE
4	(4)	CHARACTER	4	DSVC4EVR	ECB USED BY IEAVTDSV TO PUT THE ADDRESS SPACE INTO A WAIT
8	(8)	CHARACTER	2	DSVCRETC	RETURN CODE FROM DUMPSRV CREATION
10	(A)	CHARACTER	2	DSVCRSNC	REASON CODE FROM DUMPSRV CREATION
12	(C)	CHARACTER	1	DSVCMODC	MODULE CODE INDICATING WHICH MODULE FAILED 1 - IEEMB881 2 - IEAVTSAI
13	(D)	UNSIGNED	1	DSVCASCT	COUNT OF THE NUMBER OF TIMES THE ADDRESS SPACE HAS FAILED
14	(E)	CHARACTER	2	*	Reserved (Fullword boundary)
16	(10)	UNSIGNED	4	DSVCECBS	DSV WAITS FOR SDS'S ETXR TO POST INDICATING TERMINATION CAN CONTINUE
20	(14)	UNSIGNED	4	DSVCDOMID	DOM ID for msg IEA046E

Table 738. Structure DSVDMPDS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	44	DSVDMPDS	DUMP DATA SET SECTION
0	(0)	CHARACTER	4	DSVDFLGS	FLAGS FOR DUMP DATA SET SECTION
0	(0)	CHARACTER	1	DSVDFLG1	FIRST DUMP DATA SET FLAG BYTE
		1...		DSVDQDAM	SVC DUMP DATA SET QUEUE IS DAMAGED. THE INITIALIZATION OF THE SDDSQ OR THE MODIFICATION OF THE SDDSQ BY THE DUMPDS COMMAND FAILED AND LEFT THE SDDSQ IN A DAMAGED STATE. NO FURTHER DUMPDS COMMANDS ARE ALLOWED.
		.1..		DSVDDSOK	0 - THE IEECB926 TASK IS NOT IN A STATE WHICH WOULD ALLOW THE DUMPDS COMMAND (IEECB923) TO POST IT. 1 - THE IEECB926 IS READY AND WAITING FOR IEECB923 TO POST IT.

Table 738. Structure DSVDMPDS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		DSVDTTRM	0 - ON RESTART THE IEECB926 TASK MUST REALLOCATE ALL DUMP DATASETS. 1 - ON RESTART THE IEECB926 TASK DOESN'T HAVE TO REALLOCATE THE DUMP DATA SETS BECAUSE THE DUMPSRV A.S HAS NOT TERMINATED.
		...1		DSVD923W	IEECB923 IS WAITING TO BE POSTED BY CB926 OR IEAVTSDR
		.... 1...		DSVDINOK	1 - IEECB926 HAS SUCCESSFULLY COMPLETED INITIALIZATION OF THE SDDSQ
4	(4)	CHARACTER	4	DSVDECB1	ECB WAITED ON BY IEECB926 AND POSTED BY IEECB923.
8	(8)	CHARACTER	4	DSVDECB2	ECB WAITED ON BY IEECB923 AND POSTED BY IEECB926.
12	(C)	ADDRESS	4	DSVDDSPA	POINTER TO THE DUMPDS PARAMETER AREA DSPA, BUILT BY IEECB923
16	(10)	ADDRESS	4	DSVDCPID	CELL POOL ID USED TO IDENTIFY THE STORAGE POOL CONTAINING THE SDDSQ ENTRIES.
20	(14)	SIGNED	2	DSVDLPCT	LOOP COUNT OF THE NUMBER OF TIMES THE IEECB926 TASK TERMINATES WITHOUT SUCCESSFULLY PROCESSING A DUMPDS COMMAND
22	(16)	SIGNED	2	DSVS1TCT	Count of number of times the IEAVTS1T task terminates without successfully processing a remote SDUMP
24	(18)	ADDRESS	4	*	Reserved
28	(1C)	ADDRESS	4	DSVDTCBA	ADDRESS OF THE IEECB926 TASK
32	(20)	ADDRESS	4	DSVSBS@	Address of IEAVTSBS
36	(24)	ADDRESS	4	DSVS1TT@	TCB address of IEAVTS1T
40	(28)	ADDRESS	4	DSVJSTCB	IEAVTDSV - DUMPSRV Job Step task
44	(2C)	CHARACTER	0	*	

Table 739. Structure DSVEXPRC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	24	DSVEXPRC	POST DUMP EXIT SECTION
0	(0)	CHARACTER	4	DSVEFLGS	FLAGS FOR EXIT SECTION
0	(0)	CHARACTER	1	DSVEFLG1	FIRST EXIT FLAG BYTE
4	(4)	CHARACTER	4	DSVEECBE	ECB WHICH IS POSTED BY THE SVC DUMP CLEANUP MODULE (IEAVTSDC) WHEN POST DUMP EXIT PROCESSING IS TO BE INITIATED.
		1...		DSVEWAIT	1=IEAVTDSV IS WAITING FOR WORK

Table 739. Structure DSVEXPRC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	ADDRESS	4	DSVEANCH	ANCHOR POINTER FOR A CHAIN OF DSPD RECORDS WHICH ARE TO BE RUN THROUGH POST DUMP EXIT PROCESSING. ELEMENTS ARE ADDED TO THE CHAIN IN IEAVTSDC AND REMOVED FROM THE CHAIN IN IEAVTDSV.
12	(C)	ADDRESS	4	DSVEXCNT	COUNT OF THE NUMBER OF POST DUMP EXITS IN THE EXIT LIST POINTED TO BY DSVEXITS
16	(10)	ADDRESS	4	DSVEXITS	POINTER TO THE LIST OF ENTRY POINTS OF THE POST DUMP EXITS.
20	(14)	UNSIGNED	4	DSVSEPCT	Count of IEAVTSEP tasks

Table 740. Structure DSVEXITL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	DSVEXITL	POST DUMP EXIT LIST WHICH CONTAINS THE LIST OF ENTRY POINTS FOR THE POST DUMP EXITS. THIS TABLE IS BUILT WHEN THE DUMPSRV ADDRESS SPACE IS CREATED.
0	(0)	CHARACTER	16	DSVEXTBL(*)	POST DUMP EXIT TABLE
0	(0)	CHARACTER	8	DSVENAME	EBCDIC EXIT NAME TO BE USED BY RECOVERY TO RECORD THE CSECT IN ERROR
8	(8)	ADDRESS	4	DSVEXADR	LOAD ADDRESS OF EXIT IN THE DUMPSRV ADDRESS SPACE.
12	(C)	CHARACTER	4	DSVEXFLG	FULL WORD OF FLAGS ASSOCIATED WITH THE PARTICULAR EXIT ENTRY.
		1...		DSVEXALL	THIS EXIT IS TO RECEIVE CONTROL IN ALL CIRCUMSTANCES. THIS INCLUDES POST DUMP EXIT PROCESSING FOR DUMPS WHICH WERE TAKEN AS WELL AS SUPPRESSED

Table 741. Structure DSVDAE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	20	DSVDAE	
0	(0)	CHARACTER	4	DSVAFLGS	FLAGS FOR DAE SECTION
0	(0)	CHARACTER	1	DSVAFLG1	FIRST DAE FLAG BYTE
4	(4)	SIGNED	2	DSVALPCT	COUNT OF ADYTRNS TASK TERMINATIONS
6	(6)	SIGNED	2	*	RESERVED
8	(8)	ADDRESS	4	DSVATCBA	ADDRESS OF THE ADYTRNS TASK
12	(C)	ADDRESS	4	*	RESERVED
16	(10)	ADDRESS	4	*	RESERVED

Table 742. Structure DSVSDS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	32	DSVSDS	
0	(0)	SIGNED	2	DSVSLPCT	LOOP COUNT OF THE NUMBER OF TIMES THE IEAVTSDS TASK TERMINATES WITHOUT SUCCESSFULLY PROCESSING A DUMP COMMAND
2	(2)	CHARACTER	1	DSVSFLGS	IEAVTSDS Flag byte
		1...		DSVSABLE	IEAVTSDS is able to process dump
		.1..		DSVSFLB1	Reserved
		..1.		DSVSFLB2	Reserved
		...1		DSVSFLB3	Reserved
		.... 1...		DSVSFLB4	Reserved
		.... .1..		DSVSFLB5	Reserved
		.... ..1.		DSVSFLB6	Reserved
		1		DSVSFLB7	Reserved
3	(3)	UNSIGNED	1	*	RESERVED
4	(4)	ADDRESS	4	DSVSTCBA	ADDRESS OF THE IEAVTSDS TASK
8	(8)	ADDRESS	4	DSVSTCBF	ADDRESS OF SDS TASK FOR ETXR TO CHECK SINCE SDS ZEROES DSVSTCBA BEFORE PERCOLATING
12	(C)	CHARACTER	16	DSVSTTOK	TTOKEN OF THE SDS TASK
28	(1C)	ADDRESS	4	*	RESERVED

Table 743. Structure DSVSST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	32	DSVSST	Dump index section
0	(0)	BITSTRING	2	DSVSSTFLAG	Flag bytes
2	(2)	SIGNED	2	DSVSSTCOUNT	Count of number of times the IEAVTSST task terminates without successfully processing an ADDDUMP request
4	(4)	ADDRESS	4	DSVSSTTCB@	TCB address of IEAVTSST
8	(8)	UNSIGNED	4	DSVSSTECB	ECB which is posted by IEAVTSSI when dump index processing is to be initiated
		1...		DSVSSTWAIT	IEAVTSST is waiting for work
12	(C)	UNSIGNED	4	DSVSSTQUEUE@	Queue header for chain of dump index request control blocks which are to be processed
16	(10)	UNSIGNED	4	DSVSSTDOMID	Dom ID for msg IEA651E
20	(14)	CHARACTER	12	*	Reserved

Table 744. Structure DSVTDM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	20	DSVTDM	TDump section
0	(0)	BITSTRING	1	DSVTDMFLAG	Flag byte
		1...		DSVTACTN	Issue the action message
		.1..		DSVTDUMP	Take Tdump
		..1.		DSVCTRACEWRITER	Handle Ctrace Writer disconnect
		...1 1111		*	Reserved

Table 744. Structure DSVTDM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1	(1)	UNSIGNED	1	*	Reserved
2	(2)	SIGNED	2	DSVTDMCOUNT	Count of number of times the IEAVTTDM task terminates without successfully processing a TDump request by Sdump
4	(4)	ADDRESS	4	DSVTDMTCB@	Address of the TDump task
8	(8)	UNSIGNED	4	DSVTDMECB	ECB which is posted by SDXPOSTT to take a Tdump
8	(8)	UNSIGNED	4	DSVTDMDOMID	Dom ID for msg IEA044E
12	(C)	UNSIGNED	4	DSV_CTRACE_WRITER_ECB	ECB which is posted by IEAVTSSR to handle Ctrace External Writer disconnect
16	(10)	CHARACTER	4	*	Reserved

Table 745. Cross Reference for DSVCB

Name	Offset	Hex Tag
DSV_CTRACE_WRITER_ECB	C	
DSVAFLGS	0	
DSVAFLG1	0	
DSVALPCT	4	
DSVATCBA	8	
DSVCASCT	D	
DSVCB	0	
DSVCDOMID	14	
DSVCECBS	10	
DSVCFLGS	0	
DSVCFLG1	0	
DSVCMODC	C	
DSVCOMM	0	
DSVCRETC	8	
DSVCRSNC	A	
DSVCTRACEWRITER	0	20
DSVC4EVR	4	
DSVDAE	0	
DSVDCPID	10	
DSVDDSOK	0	40
DSVDDSPA	C	
DSVDECB1	4	
DSVDECB2	8	
DSVDFLGS	0	
DSVDFLG1	0	
DSVDINOK	0	08
DSVDLPCT	14	
DSVDMPDS	0	
DSVDQDAM	0	80
DSVDTCBA	1C	
DSVDTTRM	0	20
DSVD923W	0	10
DSVEANCH	8	

Table 745. Cross Reference for DSVCB (continued)

Name	Offset	Hex Tag
DSVEECBE	4	
DSVEFLGS	0	
DSVEFLG1	0	
DSVENAME	0	
DSVEWAIT	4	80
DSVEXADR	8	
DSVEXALL	C	80
DSVEXCNT	C	
DSVEXFLG	C	
DSVEXITL	0	
DSVEXITS	10	
DSVEXPRC	0	
DSVEXTBL	0	
DSVID	0	
DSVJSTCB	28	
DSVPCOMM	4	
DSVPDAE	10	
DSVPDDS	8	
DSVPEXIT	C	
DSVPSDS	14	
DSVSABLE	2	80
DSVSBS@	20	
DSVSDS	0	
DSVSEPCT	14	
DSVSFLB1	2	40
DSVSFLB2	2	20
DSVSFLB3	2	10
DSVSFLB4	2	08
DSVSFLB5	2	04
DSVSFLB6	2	02
DSVSFLB7	2	01
DSVSFLGS	2	
DSVSLPCT	0	
DSVSST	0	
DSVSST@	18	
DSVSSTCOUNT	2	
DSVSSTDOMID	10	
DSVSSTECB	8	
DSVSSTFLAG	0	
DSVSSTQUEUE@	C	
DSVSSTTCB@	4	
DSVSSTWAIT	8	80
DSVSTCBA	4	
DSVSTCBF	8	
DSVSTTOK	C	
DSVS1TCT	16	
DSVS1TT@	24	
DSVTACTN	0	80
DSVTDM	0	

Table 745. Cross Reference for DSVCB (continued)

Name	Offset	Hex Tag
DSVTDMCOUNT	2	
DSVTDMDOMID	8	
DSVTDMECB	8	
DSVTDMFLAG	0	
DSVTDMP	1C	
DSVTDMTCB@	4	
DSVTDUMP	0	40

Chapter 174. EAECB Information

EAECB Programming Interface Information

EAECB is a programming interface.

EAECB Heading Information

Common Name:	System Address Space Initialization Communication ECBs
Macro ID:	IEZEAECB
DSECT Name:	EAECB
Owning Component:	System command - SVC 34 (SC1B8)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 245 Key: 0
Size:	8 bytes
Created by:	IEEMB881
Pointed to by:	Register 2 upon exit from IEEMB881
Serialization:	None
Function:	Contains the two ECBs needed for communication between the caller of IEEMB881 and the system address space initialization routine and between IEEVWAIT and IEEMB883.

EAECB mapping

Table 746. Structure EAECB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EAECB	- COMMUNICATION ECBS
0	(0)	ADDRESS	4	EAERIMWT(0)	- ECB FOR NIP RIM TO WAIT ON
0	(0)	BITSTRING	1		
1	(1)	BITSTRING	3	EAERIMPC	- POST CODE FOR EAERIMWT
4	(4)	ADDRESS	4	EAEASWT(0)	- ECB FOR INITIALIZATION ROUTINE TO WAIT ON
4	(4)	BITSTRING	1		
5	(5)	BITSTRING	3	EAEASPC	- POST CODE FOR EAEASWT
5	(5)	X'8'	0	EAELAST	"*" END OF IEZEAECB

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Chapter 175. ECB Information

ECB Programming Interface Information

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

- ECBEVTB
- ECBRB

ECB Heading Information

Common Name:	Event Control Block
Macro ID:	IHAECB
DSECT Name:	ECB, ECBE
Owning Component:	Task Manager (SC1CL)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: User defined Key: User defined Residency: User defined
Size:	4 bytes
Created by:	User
Pointed to by:	Resides in the user's area ASCBQECB field of the ASCB data area (QUIESCE ECB) CHEBP field of the CSCB data area (STOP/MODIFY ECB) EVNTENTP field of the EVNT data area (completed ECB) IOBECBPT field of the IOB data area (associated ECB) QELECB field of the QEL data area (associated ECB) SSALCNCL field of the SSOB (allocation) data area (CANCEL ECB) SSRRSECB field of the SSOB (req/ret) data area (STOP ECB) TCASXECB field of the TCAST data area (emergency RELEASE ECB) TCASMECB field of the TCAST data area (STOP/MODIFY ECB) TCASTECB field of the TCAST data area (terminate TSO ECB) TCBECB field of the TCBECB data area (associated ECB) TSBXECB field of the TSBX data area (cross memory reconnect ECB) TVCSECB field of the TVCS data area (cross memory POST ECB) TVWAECB field of the TVWA data area (terminal control EC) TVWATECB field of the TVWA data area (timer ECB) TVWAECB1 field of the TVWA data area (CANCEL ECB) TVWAECB2 field of the TVWA data area (reconnect ECB) TVWAECB3 field of the TVWA data area (timer ECB) TWAMECB field of the TWAR data area (main task ECB) TWAVECB field of the TWAR data area (VTAM interface ECB) TWAUECB field of the TWAR data area (user interface ECB) TWACECB field of the TWAR data area (console communications ECB)
Serialization:	LOCAL lock, CS (compare and swap) instruction

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ECB Heading Information

Function: The ECB is the subject of WAIT, POST, and EVENTS macro instructions. It is used for communications among various components of the control programs as well as between problem programs and the control programs.
An ECB can be posted with a two-part completion code:
- Bits 1 through 7 are posted by data management and teleprocessing functions. This part of the completion code is described in the mapping of the ECB control block.
- Bits 8 through 31 are posted by all system components and by user-written programs. When a task is abnormally terminated, the ECB for the task is posted with an abnormal system completion code in bits 8 through 19, or with an abnormal user completion code in bits 20 through 31.

ECB mapping

Table 747. Structure ECB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ECB	
0	(0)	SIGNED	4	ECBRB(0)	- REQUEST BLOCK ADDRESS (WHILE AWAITING COMPLETION OF AN EVENT)
0	(0)	ADDRESS	4	ECBEVTB(0)	- ADDRESS OF EVENT TABLE (MDC300)
0	(0)	ADDRESS	4	ECBEXTB(0)	- ADDRESS OF ECB EXTENSION (OS/VS2) (MDC305)
0	(0)	CHARACTER	1	ECBCC	- COMPLETION CODE BYTE
		1...		ECBWAIT	"X'80'" - WAITING FOR COMPLETION OF THE EVENT
		.1..		ECBPOST	"X'40'" - THE EVENT HAS COMPLETED
		..11		ECBUNWT	"X'30'" - ECB is "unwaited". (Normally used by ABTERM)
		.111 1111		ECBNORM	"X'7F'" - CHANNEL PROGRAM HAS TERMINATED WITHOUT ERROR. (CSW CONTENTS USEFUL.) FOR TCAM, WORK UNIT IN WORK AREA.
		.1.. ...1		ECBPERR	"X'41'" - CHANNEL PROGRAM HAS TERMINATED WITH PERMANENT ERROR. (CSW STATUS BYTES USEFUL. CCW ADDRESS MAY BE USEFUL OR ZEROS.) FOR BTAM, CHANNEL PROGRAM HAS COMPLETED WITH AN I/O ERROR.
		.1.. ..1.		ECBDAEA	"X'42'" - CHANNEL PROGRAM HAS TERMINATED BECAUSE A DIRECT ACCESS EXTENT ADDRESS HAS BEEN VIOLATED. (CSW CONTENTS DO NOT APPLY.) (ACCESS METHODS EXCEPT BTAM AND TCAM)
		.1.. ..11		ECBABEND	"X'43'" - I/O ABEND CONDITION OCCURRED FOR ERROR TRANSIENT LOADING TASK. (CSW CONTENTS DO NOT APPLY.) (ACCESS METHODS EXCEPT BTAM AND TCAM) (ICB415) XM2533

Table 747. Structure ECB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1.. .1..		ECBINCPT	"X'44'" - CHANNEL PROGRAM HAS BEEN INTERCEPTED BECAUSE OF PERMANENT ERROR ASSOCIATED WITH DEVICE END FOR PREVIOUS REQUEST. YOU MAY REISSUE THE INTERCEPTED REQUEST. (ACCESS METHODS EXCEPT BTAM AND TCAM)
		.1.. 1...		ECBREPRG	"X'48'" - REQUEST ELEMENT FOR CHANNEL PROGRAM HAS BEEN MADE AVAILABLE AFTER IT HAS BEEN PURGED. (CSW CONTENTS DO NOT APPLY.) (ACCESS METHODS OTHER THAN BTAM)
		.1.. 1...		ECBEHALT	"X'48'" - ENABLE COMMAND HALTED, OR I/O OPERATION PURGED. (BTAM)
		.1.. 1.11		ECBERPAB	"X'4B'" - ONE OF THE FOLLOWING ERRORS OCCURRED DURING TAPE ERROR RECOVERY PROCESSING - (1) THE CSW COMMAND ADDRESS IN THE IOB WAS ZEROS OR (2) AN UNEXPECTED LOAD POINT WAS ENCOUNTERED. (CSW CONTENTS DO NOT APPLY.) (ACCESS METHODS EXCEPT BTAM AND TCAM) ICB266
		.1.. 1111		ECBERPER	"X'4F'" - ERROR RECOVERY ROUTINES HAVE BEEN ENTERED BECAUSE OF DIRECT ACCESS ERROR BUT ARE UNABLE TO READ HOME ADDRESS OR RECORD 0. (CSW CONTENTS DO NOT APPLY.) (ACCESS METHODS EXCEPT BTAM AND TCAM)
		.111		ECBSETEO	"X'70'" - THE SETEOF MACRO WAS ISSUED IN THE MESSAGE COMMAND PROGRAM (NO WORK UNIT IN WORK AREA) (TCAM)
		.1.1 11..		ECBDMQDS	"X'5C'" - CONGESTED DESTINATION MESSAGE QUEUE DATA SET (WRITE ONLY) (TCAM)
		.1.1 1...		ECBSEQER	"X'58'" - SEQUENCE ERROR (TCAM)
		.1.1 .1..		ECBINVMD	"X'54'" - INVALID MESSAGE DESTINATION (TCAM)
		.1.1 ..1.		ECBWKOVR	"X'52'" - WORK AREA OVERFLOW (TCAM)
		.1.1		ECBNOMSG	"X'50'" - MESSAGE WAS NOT FOUND WHEN READ MACRO WAS ISSUED IN CONJUNCTION WITH POINT MACRO TO RETRIEVE A MESSAGE (TCAM)
		.1..		ECBDTRAQ	"X'40'" - DATA IS ON READ-AHEAD QUEUE (TCAM)
		.... ..1.		ECBEOQ	"X'02'" - END-OF-QUEUE CONDITION (NOT END-OF-FILE) (TCAM)
		1		ECBRAQMT	"X'01'" - READ-AHEAD QUEUE EMPTY, BUT DESTINATION QUEUE NOT EMPTY (TCAM)

Table 747. Structure ECB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1	(1)	ADDRESS	3	ECBRBA(0)	- REQUEST BLOCK ADDRESS (WHILE AWAITING COMPLETION OF AN EVENT)
1	(1)	ADDRESS	3	ECBEVTBA(0)	- ADDRESS OF EVENT TABLE (MDC302)
1	(1)	ADDRESS	3	ECBEXTBA(0)	- ADDRESS OF ECB EXTENSION (OS/VS2) (MDC306)
1	(1)	CHARACTER	3	ECBCCCNT(0)	- ZEROES OR REMAINDER OF COMPLETION CODE (AFTER COMPLETION OF THE EVENT)
1	(1)	CHARACTER	2		- FIRST TWO BYTES OF ECBEVTBA
3	(3)	BITSTRING	1	ECBBYTE3	- THIRD BYTE OF ECBEVTBA (MDC303)
		11		ECBEXTND	"X'03'" - ECB EXTENSION EXISTS (OS/VS2) (MDC307)
		1		ECBEVNT	"X'01'" - EXTENDED FORMAT ECB (MDC304)

Table 748. Structure ECBE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ECBE	- ECB EXTENSION (OS/VS2) (MDC308)
0	(0)	SIGNED	4	ECBEDESC(0)	- DESCRIPTOR WORD (MDC309)
0	(0)	BITSTRING	1	ECBEVAL	- FUNCTION CODE (MDC310)
		1		ECBEEXIT	"X'01'" - EXIT ROUTINE REQUEST (MDC311)
1	(1)	CHARACTER	1	ECBEFLG1	- FLAG BYTE
		1...		ECBEMODE	"X'80'" ADDRESSING MODE OF EXIT -- 1 => 31-BIT MODE, 0 => 24
2	(2)	CHARACTER	1	ECBERES2	- RESERVED (MDC313)
3	(3)	CHARACTER	1	ECBERES3	- RESERVED (MDC314)
4	(4)	ADDRESS	4	ECBEPIND(0)	- POST INPUT DATA (MDC315)
4	(4)	ADDRESS	4	ECBEEXAD	- POST EXIT ADDRESS
4	(4)	X'8'	0	ECBEEND	"*" - END OF ECB EXTENSION (MDC316)

Table 749. Cross Reference for ECB

Name	Offset	Hex Tag
ECB	0	
ECBABEND	0	43
ECBBYTE3	3	
ECBCC	0	
ECBCCCNT	1	
ECBDAEA	0	42
ECBDMQDS	0	5C
ECBDTRAQ	0	40
ECBE	0	
ECBEDESC	0	
ECBEEND	4	8
ECBEEXAD	4	

Table 749. Cross Reference for ECB (continued)

Name	Offset	Hex Tag
ECBEEXIT	0	1
ECBEFLG1	1	
ECBEHALT	0	48
ECBEMODE	1	80
ECBEOQ	0	2
ECBEPIND	4	
ECBERES2	2	
ECBERES3	3	
ECBERPAB	0	4B
ECBERPER	0	4F
ECBEVAL	0	
ECBEVNT	3	1
ECBEVTB	0	
ECBEVTBA	1	
ECBEXTB	0	
ECBEXTBA	1	
ECBEXTND	3	3
ECBINCPT	0	44
ECBINVMD	0	54
ECBNOMSG	0	50
ECBNORM	0	7F
ECBPERR	0	41
ECBPOST	0	40
ECBRAQMT	0	1
ECBRB	0	
ECBRBA	1	
ECBREPRG	0	48
ECBSEQER	0	58
ECBSETEO	0	70
ECBUNWT	0	30
ECBWAIT	0	80
ECBWKOVR	0	52

Chapter 176. ECVT Information

ECVT Programming Interface Information

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

- ECVT_CMS_LockInst_Addr
- ECVT_Customer_Area_Addr
- ECVT_ENQDEQ_CMS_LockInst_Addr
- ECVT_GetSrbIdToken
- Ecvt_Installed_Core_At_IPL
- Ecvt_Installed_Core_HWM
- ECVT_Installed_CPU_At_IPL
- ECVT_INSTALLED_CPU_HWM
- ECVT_LATCH_CMS_LockInst_Addr
- ECVT_max_CPUMaskSizeInBits
- ECVT_max_CPUMaskSizeInBytes
- ECVT_max_highestCPUID
- ECVT_SMF_CMS_LockInst_Addr
- ECVT_zOSR11_CPUMaskSizeInBits
- ECVT_zOSR11_CPUMaskSizeInBytes
- ECVT_zOSR11_highestCPUID
- ECVT_zOSV2R1_CPUMaskSizeInBits
- ECVT_zOSV2R1_CPUMaskSizeInBytes
- ECVT_zOSV2R1_highestCPUID
- ECVTALCK
- ECVTAPPC
- ECVTAppFlags
- ECVTCACHELINESIZE
- ECVTCACHELINESTARTBDY
- ECVTCLNU
- ECVTCLON
- ECVTCRDT
- ECVTCSM
- ECVTCSVN
- ECVTCTBL
- ECVTDLPF
- ECVTDLPL
- ECVTDPQH
- ECVTDUCU
- ECVTFACL
- ECVTFLG1
- ECVTGMOD
- ECVTHDNM

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- ECVTIPA
- ECVTLogicalToPhysicalMask
- ECVTLPNM
- ECVTLSEN
- ECVTMaxCoreID
- ECVTMaxMPNumBytesInMask
- ECVTNumCPUIDsInCore
- ECVTOCVT
- ECVTOEXT
- ECVTOMVS
- ECVTPDVL
- ECVTPhysicalToLogicalMask
- ECVTPIDN
- ECVTPMOD
- ECVTPNAM
- ECVTPOWN
- ECVTPREL
- ECVTPSEQ
- ECVTPVER
- ECVTSLID
- ECVTSPLX
- ECVTSRBJ
- ECVTSRBL
- ECVTSYMT
- ECVTTCP
- ECVTVMNM
- ECVTVSER
- ECVTXTSW

ECVT Heading Information

Common Name:	Extended Communications Vector Table
Macro ID:	IHAECVT
DSECT Name:	ECVT
Owning Component:	Supervisor Control (SC1C5)
Eye-Catcher ID:	ECVT Offset: 0 Length: 4
Storage Attributes:	Residency: EXTENDED NUCLEUS, Above 16M line
Size:	Offset of ECVTEND minus the offset of ECVT
Created by:	IEAVECVT
Pointed to by:	CVTECVT
Serialization:	Dependent on the specific field (see field descriptions)
Function:	The ECVT is a logical extension of the CVT.

ECVT mapping

Table 750. Structure ECVT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ECVT	
0	(0)	CHARACTER	4	ECVTECVT	ECVT ACRONYM
4	(4)	ADDRESS	4	ECVTCPLX	- ADDRESS OF IXCCPLX CONTROL BLOCK. OWNERSHIP: XCF. SERIALIZATION: N/A.
8	(8)	CHARACTER	8	ECVTSPLX	- SYSPLEX NAME USED FOR DEBUGGING. OWNERSHIP: XCF. SERIALIZATION: N/A.
16	(10)	SIGNED	4	ECVTSPLE	- SYSPLEX PARTITIONING ECB THAT IS POSTED TO WAKE UP THE SYSPLEX PARTITIONING MANAGER. OWNERSHIP: XCF. SERIALIZATION: SYSPLEX PARTITIONING TASK.
20	(14)	ADDRESS	4	ECVTSPLQ	- SYSPLEX PARTITIONING QUEUE. CONTAINS SYSPLEX PARTITIONING WORK ELEMENTS. OWNERSHIP: XCF. SERIALIZATION: COMPARE AND SWAP.
24	(18)	ADDRESS	4	ECVTSTC1	"V(IEATSTC1)" - STCKSYNC, NON-AR MODE, NO ETRID REQUESTED. OWNERSHIP: TIMER. SERIALIZATION: NONE.
28	(1C)	ADDRESS	4	ECVTSTC2	"V(IEATSTC2)" - STCKSYNC, NON-AR MODE, ETRID REQUESTED. OWNERSHIP: TIMER. SERIALIZATION: NONE.
32	(20)	ADDRESS	4	ECVTSTC3	"V(IEATSTC3)" - STCKSYNC, AR MODE, NO ETRID REQUESTED. OWNERSHIP: TIMER. SERIALIZATION: NONE.
36	(24)	ADDRESS	4	ECVTSTC4	"V(IEATSTC4)" - STCKSYNC, AR MODE, ETRID REQUESTED. OWNERSHIP: TIMER. SERIALIZATION: NONE.
40	(28)	ADDRESS	4	ECVTAPPC	- ANCHOR FOR APPC DATA STRUCTURES OWNERSHIP: MVS/APPC SERIALIZATION: NONE
44	(2C)	ADDRESS	4	ECVTSCH	- ANCHOR FOR APPC SCHEDULER DATA STRUCTURES OWNERSHIP: MVS/APPC SERIALIZATION: NONE
48	(30)	BITSTRING	4	ECVTIOSF(0)	IOS FLAGS OWNERSHIP: IOS
48	(30)	BITSTRING	1	ECVTIOS1	- IOS FLAGS BYTE 1 SERIALIZATION: NONE
	1...			ECVTCHSC	"X'80'" - RESERVED FOR IBM USE
49	(31)	BITSTRING	1	ECVTIOS2	- RESERVED.
50	(32)	BITSTRING	1	ECVTIOS3	- RESERVED.
51	(33)	BITSTRING	1	ECVTIOS4	- RESERVED.
52	(34)	ADDRESS	4	ECVTOMDA	- ADDRESS OF THE OPERATIONS MEASUREMENT DATA GATHERER IEAVG708. OWNERSHIP: CONSOLE SERVICES. SERIALIZATION: NONE.
56	(38)	BITSTRING	2	ECVTCSVN	- Counter Second Version Number for CPU counter facility

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
58	(3A)	BITSTRING	1	ECVTCNZ	- Ownership: Consoles Serialization: CS
		1...		ECVTWTOV	"X'80'" - Allow Verbose messages
59	(3B)	BITSTRING	1	ECVTALOC	- Ownership: Allocation Serialization: None (Set during NIP)
		1...		ECVTWARN	"X'80'" - Warn about allocations that specify 2-digit expiration years
		.1..		ECVTFAIL	"X'40'" - Fail allocations that specify 2-digit expiration years
60	(3C)	ADDRESS	4	ECVTBPMS	- BELOW 16M, PAGEABLE DEVICE SUPPORT MODULES, STARTING ADDRESS. OWNERSHIP: CONTENTS SUPERVISION. SERIALIZATION: NONE.
64	(40)	ADDRESS	4	ECVTBPME	- BELOW 16M, PAGEABLE DEVICE SUPPORT MODULES, ENDING ADDRESS. OWNERSHIP: CONTENTS SUPERVISION. SERIALIZATION: NONE.
68	(44)	ADDRESS	4	ECVTAPMS	- ABOVE 16M, PAGEABLE DEVICE SUPPORT MODULES, STARTING ADDRESS. OWNERSHIP: CONTENTS SUPERVISION. SERIALIZATION: NONE.
72	(48)	ADDRESS	4	ECVTAPME	- ABOVE 16M, PAGEABLE DEVICE SUPPORT MODULES, ENDING ADDRESS. OWNERSHIP: CONTENTS SUPERVISION. SERIALIZATION: NONE.
76	(4C)	ADDRESS	4	ECVTQUCB	- XCF DATA AREA (IXCYQUCB) ANCHOR. OWNERSHIP: XCF. SERIALIZATION: N/A.
80	(50)	DBL WORD	8	ECVTSSDD(0)	- DOUBLE WORD USED TO COMPARE DOUBLE AND SWAP ECVTSSDF AND ECVTSSDS. SERIALIZATION: CDS. OWNERSHIP: SUPERVISOR CONTROL.
80	(50)	ADDRESS	4	ECVTSSDF	- THE ADDRESS OF THE FREE SSD QUEUE. SERIALIZATION: CS WHEN ADDING AN SSD TO THE FREE QUEUE. CDS ON ECVTSSDD WHEN REMOVING AN SSD FROM THE FREE QUEUE. OWNERSHIP: SUPERVISOR CONTROL.
84	(54)	SIGNED	4	ECVTSSDS	- SEQUENCE NUMBER INCREMENTED WHEN SSDS ARE REMOVED FROM THE FREE SSD QUEUE. USED TO SERIALIZE THE FREE SSD QUEUE. OWNERSHIP: SUPERVISOR CONTROL.

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
88	(58)	ADDRESS	4	ECVT_CUSTOMER_AREA_ADDR	"V(IEAVECAA)" Customer Area Address. Address of a 128-byte area in page-fixed, key 0, common storage above 16M, below 2G. This field is owned by the customer that owns this system. No program should modify this without the permission of the owner. Non-zero as of z/OS 2.2. Prior to z/OS 2.2, the owning customer may take the steps to allocate an area of storage and update this field with the address of the area.
88	(58)	X'58'	0	ECVTCAA	"ECVT_Customer_Area_Addr"
92	(5C)	ADDRESS	4	ECVTSRBT	- THE ADDRESS OF THE SSD RESOURCE MANAGER. OWNERSHIP: SUPERVISOR CONTROL.
96	(60)	ADDRESS	4	ECVTDPQH	Queue of DU-AL Pools (DPHs) Ownership: PC Auth Serialization: Disp lock
100	(64)	ADDRESS	4	ECVTTCRE	- IEAVTCRE ENTRY POINT ADDRESS. OWNERSHIP: ACR. SERIALIZATION: NONE.
104	(68)	SIGNED	4	(0)	- ALIGN ECVTXCFG ON A WORD BDY
104	(68)	BITSTRING	16	ECVTXCFG	SYSPLEX CONFIGURATION REQUIREMENTS. OWNERSHIP: XCF. SERIALIZATION: SYSTEM INITIALIZATION.
120	(78)	ADDRESS	4	ECVTR078	- RESERVED. DO NOT USE.
124	(7C)	ADDRESS	4	ECVTR07C	- RESERVED. DO NOT USE.
128	(80)	ADDRESS	4	ECVTSCHA	"V(IEAVSCHA)" - THE ADDRESS OF IEAVSCHA. SCHEDULE WITH ADDRESSABILITY. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: NONE.
132	(84)	BITSTRING	4	ECVTR084	- RESERVED.
136	(88)	ADDRESS	4	ECVTDLCB	Address of DLCB (CSVDLCB) for the current LNKLST set. Serialization: ENQ Ownership: CSV
140	(8C)	ADDRESS	4	ECVTNTTP	- ADDRESS OF SYSTEM LEVEL NAME/TOKEN HEADER. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: CMS LOCK.

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
144	(90)	ADDRESS	4	ECVTSRBJ	"V(IEAVJOIN)" SRB-mode enclave join - A value of 0 in ECVTSRBJ means that the function is not available - Caller must be AMODE 31 or 64, key 0, supervisor state, enabled for I/O and external interrupts, holding no locks - SRB mode (preemptible non-Client SRB only) - Primary ASC mode - Any P, Any S, Any H - Set GR 1 to the below-2G address of the 8-byte enclave token. Bits 0-31 of 64-bit GR 1 are ignored. - Load this address into GR 15. Do not use the LLGT instruction. You do not need to set bits 0-31 of 64-bit GR 15. - If AMODE 64, issue BASSM 14,15 If AMODE 31, issue BASSM 14,15 or BASR 14,15 - 31-bit GRs 2-13, high halves 2-14, and ARs 2-14 will be preserved. - On return, GR 15 contains the return code: 0 = Join successfully completed. 8 = Enclave token is not or is no longer valid 12 = Work unit is already in an enclave 16 = Non-preemptible SRB 20 = Client SRB - Potential Abend Codes: none

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
148	(94)	ADDRESS	4	ECVTSRBL	"V(IEAVLEAV)" SRB-mode enclave leave - A value of 0 in ECVTSRBL means that the function is not available - Caller must be AMODE 31 or 64, key 0, supervisor state, enabled for I/O and external interrupts, holding no locks - SRB mode - Primary ASC mode - Any P, Any S, Any H - Set GR 1 to the below-2G address of the 8-byte enclave token. Bits 0-31 of 64-bit GR 1 are ignored. - Load this address into GR 15. Do not use the LLGT instruction. You do not need to set bits 0-31 of 64-bit GR 15. - If AMODE 64, issue BASSM 14,15 If AMODE 31, issue BASSM 14,15 or BASR 14,15 - 31-bit GRs 2-13, high halves 2-14, and ARs 2-14 will be preserved. - On return, GR 15 contains the return code: 0 = Leave successfully completed. 8 = Enclave token is not or is no longer valid 12 = Work unit is not in an enclave 16 = Work unit is not in the enclave identified by the input - Potential Abend Codes: none
152	(98)	ADDRESS	4	ECVTMSCH	- THE ADDRESS OF SLM MESSAGE SUBCHANNEL LIST. OWNERSHIP: SYSTEM LOCK MANAGER SERIALIZATION: NIP.
156	(9C)	ADDRESS	4	ECVTCAL	- THE ADDRESS OF SLM COMMON AREA LIST. OWNERSHIP: SYSTEM LOCK MANAGER SERIALIZATION: NIP.
160	(A0)	BITSTRING	8	ECVTLOAD	- EDITED MVS LOAD PARAMETER OWNERSHIP: IPL. SERIALIZATION: NONE.
168	(A8)	BITSTRING	8	ECVTMLPR	- LOAD parameter used for this IPL. OWNERSHIP: IPL. SERIALIZATION: NONE.
176	(B0)	ADDRESS	4	ECVTTCP	- Token used by TCP/IP OWNERSHIP: TCPIP SERIALIZATION: Compare and Swap during TCPIP initialization
180	(B4)	ADDRESS	4	ECVTHISNMT	"V(HISNMT)" HISMT Service
184	(B8)	ADDRESS	4	ECVTNVDM	- NETVIEW DM TCP ID BLOCK POINTER OWNERSHIP: NETVIEW DISTRIBUTION MANAGER. SERIALIZATION: NONE.
188	(BC)	BITSTRING	4	ECVTR0BC	- RESERVED. DO NOT USE.
192	(C0)	ADDRESS	4	ECVTGRMP	- GRM DATA BLOCK POINTER OWNERSHIP: GRAPHICS RESOURCE MONITOR SERIALIZATION: TEST AND SET ON THE HIGH ORDER BYTE.

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
196	(C4)	ADDRESS	4	ECVTWLM	- WLM VECTOR TABLE POINTER OWNERSHIP: WLM. SERIALIZATION: NONE.
200	(C8)	ADDRESS	4	ECVTCSM	- Pointer to Communication Storage Manager control structure OWNERSHIP: VTAM (Communications Storage Manager(CSM)) SERIALIZATION: ENQUEUE/DEQUEUE
204	(CC)	ADDRESS	4	ECVTCTBL	"V(CSRCTABL)" Customer anchor table. Slots assigned by IBM. Ownership: Callable Services. Serialization: None
208	(D0)	ADDRESS	4	ECVTPMCS	"V(IEAVPMCS)" STATUS SET,MC,PROCESS SERVICE ROUTINE ADDRESS. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: NONE.
212	(D4)	ADDRESS	4	ECVTPMCR	"V(IEAVPMCR)" STATUS RESET,MC,PROCESS SERVICE ROUTINE ADDRESS WITHIN MODULE IEAVFMCS. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: NONE.
216	(D8)	ADDRESS	4	ECVTSTX1	"V(IEAVAX01)" STAX DEFER=YES,LINKAGE=BRANCH SERVICE ROUTINE ADDRESS. OWNERSHIP: RCT. SERIALIZATION: NONE.
220	(DC)	ADDRESS	4	ECVTSTX2	"V(IEAVAX02)" STAX DEFER=NO,LINKAGE=BRANCH SERVICE ROUTINE ADDRESS WITHIN MODULE IEAVAX01. OWNERSHIP: RCT. SERIALIZATION: NONE.
224	(E0)	BITSTRING	4	ECVTSLID	- CONTAINS THE SLIP PER TRAP ID OR BINARY ZEROS. OWNERSHIP: SLIP SERIALIZATION: NONE.
228	(E4)	ADDRESS	4	ECVTCSVT	- CSV TABLE. OWNERSHIP: CSV SERIALIZATION: SET DURING NIP
232	(E8)	ADDRESS	4	ECVTASA	- ASA TABLE. OWNERSHIP: ASA SERIALIZATION: SET DURING NIP
236	(EC)	ADDRESS	4	ECVTEXPM	"V(IEAVEXPM)" - GETXSB SERVICE ROUTINE. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: NONE.
240	(F0)	ADDRESS	4	ECVTOCVT	- ANCHOR FOR OpenMVS COMMUNICATION VECTOR TABLE. OWNERSHIP: OpenMVS. SERIALIZATION: COMPARE AND SWAP DURING OpenMVS INITIALIZATION.
		1...		ECVTOMVS	"X'80'" If on, OpenMVS is up and available.
244	(F4)	ADDRESS	4	ECVTOEXT	- ANCHOR FOR OpenMVS EXTERNAL DATA THAT NEEDS TO BE ACCESSED BY NON-MVS CODE. OWNERSHIP: OpenMVS. SERIALIZATION: COMPARE AND SWAP DURING OpenMVS INITIALIZATION. (NEVER CHANGED AFTER INITIALIZATION)

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
248	(F8)	ADDRESS	4	ECVTCMPS	"V(CSRCMPSS)" - Address of the Compression Service routine. OWNERSHIP: Callable Services. SERIALIZATION: None.
252	(FC)	ADDRESS	4	ECVTNUCP	- Pointer to nucleus dataset name, VOL=SER, and its UCB. OWNERSHIP: NIP SERIALIZATION: None.
256	(100)	ADDRESS	4	ECVTXRAT	- XES anchor table for branch entry routine addresses. OWNERSHIP: XES. SERIALIZATION: None.
260	(104)	ADDRESS	4	ECVTPWVT	- Address of the Processor Workunit Queue Vector Table (PWVT). SERIALIZATION: None. OWNERSHIP: Supervisor Control
264	(108)	CHARACTER	2	ECVTCLON	- 1 or 2 character value used to identify a system within a sysplex. Valid values are A-Z, 0-9, $, @, #. Not valid if blank. Serialization: None. Ownership: Supervisor Control.
266	(10A)	ADDRESS	1	ECVTGMOD	GRS mode of operation OWNERSHIP: GRS. SERIALIZATION: None.
266	(10A)	X'0'	0	ECVTGNON	"0" GRS operating with option NONE.
266	(10A)	X'1'	0	ECVTGRNG	"1" GRS operating in ring mode.
266	(10A)	X'2'	0	ECVTGSTA	"2" GRS operating in star mode.
267	(10B)	BITSTRING	1	ECVTR10B	- RESERVED.

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
268	(10C)	ADDRESS	4	ECVTDUCU	"V(IEAVDUCU)" - DUCT update - A value of 0 in ECVTDUCU means that the function is not available - Caller must be AMODE 31 or 64, key 0, supervisor state - Task mode - Primary ASC mode - Any P, Any S, Any H - To invoke the service: - Set GR 1 to 1 to indicate to update the TRAP Control Block Address - Set GR 0 to the address of the doubleword aligned TRAP Control Block Address (below 2G). Bits 0-31 of 64-bit GR0 are ignored. A non-zero value in bits 32-63 will enable the TRAP function. When enabling, bit 63 is ignored. Bits 61-62 must be 0. Use a value of 0 in bits 32-63 to disable the TRAP function. - Load ECVTDUCU into GR 15. Do not use the LLGT instruction. You do not need to set bits 0-31 of 64-bit GR 15. - If AMODE 64, issue BASSM 14,15 If AMODE 31, issue BASR 14,15 or BASSM 14,15 - Upon return from the service - 31-bit GRs 2-13, high halves 2-14, and ARs 2-14 will be preserved. Other GRs, high halves, and ARs may be used as work registers by the system. - On return R15 contains a return code 0 - success 8 - bad value in register 1 12 - TRAP update request in SRB mode

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
272	(110)	ADDRESS	4	ECVTALCK	"V(IEAVALCK)" - ALIAS check - This is not intended for authorized TSO commands. Those should check the high order bit of the first parameter address and fail if it is On. - A value of 0 in ECVTALCK means that the function is not available - Caller must be AMODE 31 or 64 - Problem state or supervisor state - Task mode or SRB mode - Task mode - Primary ASC mode - Any P, Any S, Any H - To invoke the service: - Set 64-bit GR0 to the entry point address without the "AMODE bits" (i.e., bit 32 not on if AMODE 31, bit 63 not on if AMODE 64). Bits 0-31 of GR0 must be 0. - Set 32-bit GR1 to - 0 if you expect that an alias was not used to load the program - 1 if you expect that an alias was used to load the program - Load ECVTALCK into GR 15. Do not use the LLGT instruction. You do not need to set bits 0-31 of 64-bit GR 15. - If AMODE 64, issue BASSM 14,15 If AMODE 31, issue BASR 14,15 or BASSM 14,15 - The system will ABEND C0D if not successful - Upon return from the service - 31-bit GRs 2-13, high halves 2-13, and ARs 2-14 will be preserved. Other GRs, high halves, and ARs may be used as work registers by the system. - Return means success
276	(114)	BITSTRING	6	ECVTR114	- RESERVED.
282	(11A)	SIGNED	2	ECVTPTIM	Time value for Parallel Detach processing OWNERSHIP: RTM SERIALIZATION: None
284	(11C)	ADDRESS	4	ECVTJCCT	- Address of the JES communication control table. OWNERSHIP: JES. SERIALIZATION: None.
288	(120)	ADDRESS	4	ECVTLSAB	"V(IXGLSAB)" - Pointer to Logger Services Anchor Block. OWNERSHIP: IXG. SERIALIZATION: None.
292	(124)	ADDRESS	4	ECVTETPE	"V(IEAVETPE)" Addr of routine IEAVETPE. Serialization: None. Ownership: Supervisor Control

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
296	(128)	ADDRESS	4	ECVTSYMT	Address of the system static symbol table. The system static symbol table is mapped by dsect SYMBT within ASASYMBP. The table is preceded by an area mapped by dsect SYMBTH within ASASYMBP. Serialization: None. Ownership: NIP
300	(12C)	ADDRESS	4	ECVTESYM	"V(IEAVESYM)" Address of IEAVESYM routine. Serialization: None. Ownership: NIP
304	(130)	BITSTRING	4	ECVTFLGS(0)	Miscellaneous Flags Serialization: None. Ownership: NIP
304	(130)	BITSTRING	1	ECVTFLG1	First miscellaneous flag Serialization: None. Ownership: NIP
		1...		ECVTCLNU	"X'80'" When set, this flag indicates that the system static symbol &SYSCLONE value defined in an IEASYMxx member used for this IPL must be unique in the SYSPLEX. Serialization: None. Ownership: NIP
		.1..		ECVTPMAC	"X'40'" Serialization: None. Ownership: NIP
305	(131)	BITSTRING	3		
308	(134)	ADDRESS	4	ECVTESY1	"V(IEAVESY1)" Address of routine IEAVESY1. Serialization: None. Ownership: NIP
312	(138)	ADDRESS	4	ECVTPETM	"V(IEAVPETM)" Addr of routine IEAVPETM Serialization: None Ownership: Supervisor Control
316	(13C)	ADDRESS	4	ECVTETPT	"V(IEAVETPT)" Addr of routine IEAVETPT Serialization: None Ownership: Supervisor Control
320	(140)	ADDRESS	4	ECVTENVT	- Pointer to Enclave Vector Table (ENVT). OWNERSHIP: SRM SERIALIZATION: SRM lock, if updated after NIP
324	(144)	SIGNED	4	ECVTVSER	Reserved for use by VSE Ownership: VSE Serialization: none
328	(148)	ADDRESS	4	ECVTLSEN	"V(IEAVLSEN)" Address of module IEAVLSEN
332	(14C)	ADDRESS	4	ECVTDGNB	"V(IGVDGNBT)" Address of DGNB Serialization: None. Ownership: VSM
336	(150)	CHARACTER	8	ECVTHDNM	Hardware name of the processor configuration. Serialization: None. Ownership: NIP

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
344	(158)	CHARACTER	8	ECVTLPNM	LPAR name of the processor configuration. This field is blanks if processor is not in LPAR mode. Serialization: None. Ownership: NIP
352	(160)	CHARACTER	8	ECVTVMNM	VM userid of the virtual machine, of which this MVS image is is a guest. This field is blanks if the processor is not a guest under VM. Serialization: None. Ownership: NIP
360	(168)	ADDRESS	4	ECVTGRM	"V(CRG52GRM)" Address of routine CRG52GRM Serialization: None. Ownership: Context Services
364	(16C)	ADDRESS	4	ECVTSEIF	"V(CRG52SEI)" Address of routine CRG52SEI. Serialization: None. Ownership: Context Services
368	(170)	ADDRESS	4	ECVTAES	"V(IEAVEAES)" Address of routine IEAVEAES. Serialization: None. Ownership: Supervisor Control
372	(174)	ADDRESS	4	ECVTRSMT	Address of registration services management table. Serialization: None. Ownership: Context Services
376	(178)	CHARACTER	16	ECVTMMEM	Exit manager name of the mvs miscellaneous event exit manager Serialization: None. Ownership: Supervisor Control
392	(188)	ADDRESS	4	ECVTIPA	Address of the Initialization Parameter Area Serialization: None. Ownership: NIP
396	(18C)	BITSTRING	16	ECVTMMET	- Exit Manager Token of the MVS Miscellaneous Event Exit Manager Serialization: None. Ownership: Supervisor Control
412	(19C)	ADDRESS	4	ECVTMMEQ	MVS Miscellaneous Event Exit Manager RM_TOKEN Queue Serialization: REGSRV EXCL lock. Ownership: Supervisor Control
416	(1A0)	ADDRESS	4	ECVTMMEA	Address of the MVS Miscellaneous Event Exit Manager Resource Manager Token Array. Serialization: REGSRV EXCL lock. Ownership: Supervisor Control.
420	(1A4)	ADDRESS	4	ECVTEAEX	"V(IEAVEAEX)" Address of routine IEAVEAEX. Serialization: None. Ownership: Supervisor Control
424	(1A8)	ADDRESS	4	ECVTEAUX	"V(IEAVEAUX)" Address of routine IEAVEAUX. Serialization: None. Ownership: Supervisor Control
428	(1AC)	ADDRESS	4	ECVTMMEC	Count of RMs registered with MVS Miscellaneous Event Exit Manager Serialization: REGSRV EXCL Lock. Ownership: Supervisor Control

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
432	(1B0)	ADDRESS	4	ECVTIPST	Address of IPST Serialization: None. Ownership: NIP
436	(1B4)	ADDRESS	4	ECVTRRSW	Address of the RRS world object Serialization: None. Ownership: RRS
440	(1B8)	ADDRESS	4	ECVTRRTT	"V(ATRSMEOT)" RRS EOT Resmgr address with Amode indicator set on Serialization: None Ownership: RRS
444	(1BC)	ADDRESS	4	ECVTRRMT	"V(ATRSMEOM)" RRS EOM Resmgr Address with Amode indicator set on Serialization: None Ownership: RRS
448	(1C0)	ADDRESS	4	ECVTPRED	Product Enable/Disable block Serialization: None. Ownership: SMF
452	(1C4)	BITSTRING	16	ECVTCEMT	- Exit Manager Token of the Context Services Exit Manager. Serialization: None Ownership: Context Services
468	(1D4)	ADDRESS	4	ECVTCEME	"V(CTXEMGRE)" Address of routine CTXEMGRE. Serialization: None. Ownership: Context Services
472	(1D8)	ADDRESS	4	ECVTCEMR	"V(CTXCEMGR)" Address of routine CTXCEMGR. Serialization: None. Ownership: Context Services Serialization: None.
476	(1DC)	SIGNED	4	ECVTPSEQ	Product sequence number. This field will be changed when any new version, release, or modification level is provided. It can be used to determine if the operating system is at a suitable level for a desired function. Its value will always increase from one release/mod level to the next.

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		For z/OS 2.2 (HBB77A0), the value is 01020200 For z/OS 2.1 (HBB7790), the value is 01020100 For z/OS R13 (HBB7780), the value is 01011300 For z/OS R12 (HBB7770), the value is 01011200 For z/OS R11 (HBB7760), the value is 01011100 For z/OS R10 (HBB7750), the value is 01011000 For z/OS R9 (HBB7740), the value is 01010900 For z/OS R8 (HBB7730), the value is 01010800 For z/OS R7.1 (JBB772S), the value is 01010701 For z/OS R7 (HBB7720), the value is 01010700 For z/OS R6.1 (JBB77S9), the value is 01010601 For z/OS R6 (HBB7709), the value is 01010600 For z/OS R5 (HBB7708), the value is 01010500 For z/OS R4 (HBB7707), the value is 01010400 For z/OS R3 (HBB7706), the value is 01010300 For z/OS R2 (HBB7705), the value is 01010200 For z/OS R1 (JBB7713), the value is 01010100 For OS/390 R10 (HBB7703), the value is 00021000 For OS/390 R9 (JBB6609), the value is 00020900 For OS/390 R8 (HBB6608), the value is 00020800 For OS/390 R7 (JBB6607), the value is 00020700 For OS/390 R6 (HBB6606), the value is 00020600 For OS/390 R5 (HBB6605), the value is 00020500 For OS/390 R4 (JBB6604), the value is 00020400 For OS/390 R3 (HBB6603), the value is 00010300 For OS/390 R2 (JBB6602), the value is 00010200 For OS/390 R1 (HBB6601), the value is 00010100 GBLC macro variables produced by SYSSTATE TEST can be used to produce an equate for any release beginning with z/OS R1.			
480	(1E0)	CHARACTER	16	ECVTPOWN	Product owner
496	(1F0)	CHARACTER	16	ECVTPNAM	Product name.
512	(200)	CHARACTER	2	ECVTPVER	Product version
514	(202)	CHARACTER	2	ECVTPREL	Product release
516	(204)	CHARACTER	2	ECVTPMOD	Product mod level
518	(206)	CHARACTER	1	ECVTPDVL	Product development level. Note: This field is used for web deliverable for which the Product Modification Level is not changed.
519	(207)	BITSTRING	1	ECVTTTFL	Transaction Trace flags. Serialization: None Ownership: Transaction Trace
		1...		ECVTTTRC	"X'80'" Transaction Trace has been 'turned on'.
		.1..		ECVTTATF	"X'40'" If set on, TTrace is not active due to ATTACHX failure.
		..1.		ECVTTESF	"X'20'" If set on, TTrace is not active due to ESTAE failure.
		...1		ECVTTGMF	"X'10'" If set on, TTrace is not active due to GETMAIN failure.
		.... 1...		ECVTTABT	"X'08'" If set on, TTrace is not active due to abnormal termination.
520	(208)	ADDRESS	4	ECVTCURX	"V(CTXCSURX)" Address of routine CTXCSURX. Serialization: None. Ownership: Context Services

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
524	(20C)	ADDRESS	4	ECVTCTXR	"V(CTXRSMGR)" Addr of routine CTXRSMGR. Serialization: None. Ownership: Context Services
528	(210)	ADDRESS	4	ECVTCRGR	"V(CRGRSMGR)" Addr of routine CRGRSMGR. Serialization: None. Ownership: Context Services
532	(214)	ADDRESS	4	ECVTCSRB	"V(CTXSRB)" Addr of routine CTXSRB. Serialization: None Ownership: Context Services
536	(218)	ADDRESS	4	ECVTREM1	"V(CRGRREM1)" Addr of routine CRGRREM1 entry point in module CRGRREMD. Serialization: None. Ownership: Context Services
540	(21C)	ADDRESS	4	ECVTREM2	"V(CRGRREM2)" Addr of routine CRGRREM2 entry point in module CRGRREMD. Serialization: None. Ownership: Context Services
544	(220)	ADDRESS	4	ECVTXFR3	"V(IEAVXFR3)" Addr of routine IEAVXFR3 entry point Serialization: None. Ownership: PC Auth
548	(224)	ADDRESS	4	ECVTCICB	
552	(228)	ADDRESS	4	ECVTDLPF	Address of first CDE on dynamic LPA queue. Ownership: CSV Only CSV is allowed to change this. Serialization: CMS Lock
556	(22C)	ADDRESS	4	ECVTDLPL	Address of last CDE on dynamic LPA queue. It is intended that the CDHAIN field of this CDE point to the CDE pointed to by the word pointed to by CVTQLPAQ Ownership: CSV Only CSV is allowed to change this. Serialization: CMS Lock
560	(230)	ADDRESS	4	ECVTSRBR	"V(IEAVSYN6)" Return for T6EXIT RETURN=SRBSUSP Serialization: None. Ownership: Supervisor control
564	(234)	ADDRESS	4	ECVTBCBA	Address of SOMObjects data structure Ownership: SOMObjects for OS/390 Serialization: CS
568	(238)	CHARACTER	8	ECVTPIDN	PID number
576	(240)	DBL WORD	8	ECVTRMD(0)	Double word for the CRGREMD Parameter List Free Pool.
576	(240)	ADDRESS	4	ECVTRMDP	CRGREMD Parameter List Free Pool Ptr Ownership: Registration Services. Serialization: CDS on ECVTRMD
580	(244)	SIGNED	4	ECVTRMDS	CRGREMD Parameter List Free Pool Sequence Number. Ownership: Registration Services. Serialization: CDS on ECVTRMD

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
584	(248)	ADDRESS	4	ECVTRSU1	"V(IEAVRSU1)" Addr of routine IEAVRSU1 (Resume with sequence number. Serialization: None. Ownership: Supervisor Control.
588	(24C)	ADDRESS	4	ECVTPEST	Address of the Pause Element Segment Table. Serialization: Dispatcher lock Ownership: Supervisor Control.
592	(250)	ADDRESS	4	ECVTCDYN	Context Services Dynamic Area Cell Pool ID. Ownership: Context Services.
596	(254)	ADDRESS	4	ECVTFCDA	
600	(258)	BITSTRING	8	ECVTEORM	- Potential real high storage address
608	(260)	ADDRESS	4	ECVTCBLS	"V(IEAVCBLS)" Addr of IEAVCBLS (see IHACBLS)
612	(264)	ADDRESS	4	ECVTRINS	Address of RRS installed function block (ATRRINST) Ownership: RRS
616	(268)	ADDRESS	4	ECVTTTCA	Address of Transaction Trace Communications Area. Serialization: None Ownership: Transaction Trace
620	(26C)	ADDRESS	4	ECVTLCXT	Address of LCCXVT
624	(270)	BITSTRING	4	ECVTOESI	- When non-zero, orig SCCBMESI
628	(274)	BITSTRING	4	ECVTOXSB	- When non-zero, orig SCCBNXSB
632	(278)	ADDRESS	4	ECVTESTU	"V(IEAVESTU)" SVC update service
636	(27C)	ADDRESS	4	ECVTRBUP	- IEARBUP service
640	(280)	BITSTRING	4	ECVTOSAI	- When non-zero, orig SCCBSAIX
644	(284)	ADDRESS	4	ECVTPFA	- Address of PFA block. Ownership: PFA Serialization: N/A
648	(288)	ADDRESS	4	ECVTCRDT	"V(CSVRCDTY)" Entry for RACF to get CDRACDTY bits set
652	(28C)	BITSTRING	8	ECVTR28C	
660	(294)	ADDRESS	4	ECVTXPCB	
664	(298)	BITSTRING	16	ECVTLPUB	- IBM Publisher ID for ILM
680	(2A8)	BITSTRING	8	ECVTLPID	- IBM Product ID for ILM
688	(2B0)	BITSTRING	8	ECVTLVID	- IBM Version ID for ILM
696	(2B8)	BITSTRING	4	ECVTLKLN	- Length of IBM Key for ILM
700	(2BC)	ADDRESS	4	ECVTLKAD	- Address of IBM Key for ILM
704	(2C0)	BITSTRING	2	ECVTCACHELINESIZE	- CPU Cache Line Size
706	(2C2)	BITSTRING	1	ECVTCACHELINESTARTBDY	- CPU Cache Line Start Boundary
707	(2C3)	BITSTRING	1	ECVTR2C3	- Reserved.

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
708	(2C4)	ADDRESS	4	ECVTRFPT	- Address of routine to update REFRPROT option for this task. Place the address in reg 15. Place 1 in reg 0 if you want to override the system REFRPROT option and not allow REFRPROT for this task for subsequent LOADs. Place 0 in reg 0 if you no longer want to override the system REFRPROT option, so that REFRPROT is processed for this task for subsequent LOADs. Behavior is undefined if a value other than 0/1 is found. Issue BASSM 14,15. GRs 2-13 will be preserved. ARs 2-13 will be preserved. There is no return information. The routine may be called in primary or AR ASC mode. The routine may be called unlocked or locked. The routine may be called from AMODE 31 or 64, both via BASSM.
712	(2C8)	SIGNED	2	ECVT_INSTALLED_CPU_HWM	The highest CPU number currently installed within this IPL. Could increase upon dynamic CPU addition
714	(2CA)	SIGNED	2	ECVT_INSTALLED_CPU_AT_IPL	The highest CPU number installed at the time of IPL.
716	(2CC)	ADDRESS	4	ECVTCRIT	- Address of Common Resource Information Table Owner: IQP Serialization: None. Set during initialization
720	(2D0)	DBL WORD	8	ECVTTEDVECTORTABLEADDR	Pointer to the Timed Event Data vector table
728	(2D8)	DBL WORD	8	ECVTTEDSTORAGEBYTESALLOCATED	Amount of storage used for all TED Tables
736	(2E0)	ADDRESS	4	ECVTTEDS	"V(IEAVTEDS)" Pointer to the Timed Event Data Service Module
740	(2E4)	BITSTRING	12	ECVTMMIG(0)	- Machine Migration
740	(2E4)	BITSTRING	1	ECVTMMIG_BYTE0	Machine Migration Byte 0
		1...		ECVTMMIG_EDAT2	"X'80'"
		.1..		ECVTMMIG_TX	"X'40'"
		..1.		ECVTMMIG_RI	"X'20'"
		...1		ECVTMMIG_VEF	"X'10'" Vector Extension Facility
741	(2E5)	BITSTRING	11		Machine Migration Bytes 1-11
752	(2F0)	BITSTRING	8	ECVTOSARX(0)	- When non-zero, orig SCCBSARX
752	(2F0)	BITSTRING	4	ECVTOSARXH	- SCCBSARX - High Half
756	(2F4)	BITSTRING	4	ECVTOSARXL	- SCCBSARX - Low Half
760	(2F8)	BITSTRING	8	ECVT_HCWA	HCW
768	(300)	ADDRESS	4	ECVTSLCA	- Owner: LE
772	(304)	ADDRESS	4	ECVTCPGUM	"V(IGVCPGUM)" IGVCPGUM
776	(308)	ADDRESS	4	ECVTCPFRM	"V(IGVCPFRM)" IGVCPFRM

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
780	(30C)	ADDRESS	4	ECVTCPGCM	"V(IGVCPGCM)" IGVCPGCM
784	(310)	ADDRESS	4	ECVT4QV1	"V(IEAV4QV1)" IEAV4QV1
788	(314)	ADDRESS	4	ECVT4QV2	"V(IEAV4QV2)" IEAV4QV2
792	(318)	ADDRESS	4	ECVT4QV3	"V(IEAV4QV3)" IEAV4QV3
796	(31C)	ADDRESS	4	ECVT4QV4	"V(IEAV4QV4)" IEAV4QV4
800	(320)	ADDRESS	4	ECVT4QV5	"V(IEAV4QV5)" IEAV4QV5
804	(324)	ADDRESS	4	ECVT4QV6	"V(IEAV4QV6)" IEAV4QV6
808	(328)	ADDRESS	4	ECVT4QV7	"V(IEAV4QV7)" IEAV4QV7
812	(32C)	ADDRESS	4	ECVTTENC	"V(IEAVRT5S)" Timeused Enclave
816	(330)	ADDRESS	4	ECVTSCF	"V(IEAVSCAF)" IEAVSCAF
820	(334)	ADDRESS	4	ECVTTSTH	"V(IEAVTSTH)" IEAVTSTH
824	(338)	ADDRESS	4	ECVTSTC5	"V(IEATSTC5)" - STCKSYNC, AR MODE, CTNID REQUESTED. OWNERSHIP: TIMER. SERIALIZATION: NONE.
828	(33C)	ADDRESS	4	ECVTSTC6	"V(IEATSTC6)" - STCKSYNC, NON-AR MODE, CTNID REQUESTED. OWNERSHIP: TIMER. SERIALIZATION: NONE.
832	(340)	ADDRESS	4	ECVTCH1	"V(IEAVECH1)" IEAVECH1 Storage Check Service for AMODE(31) callers
836	(344)	ADDRESS	4	ECVTCH2	"V(IEAVECH2)" IEAVECH2 Storage Check Service for AMODE(64) callers
840	(348)	ADDRESS	4	ECVTCEAB	CEAB
		1...		ECVTCEAT	"X'80'" CEA has terminated
844	(34C)	ADDRESS	4	ECVTAXRB	AXRB
		1...		ECVTAXRT	"X'80'" AXR has terminated
848	(350)	ADDRESS	4	ECVTECT	"V(IEAVEECT)" IEAVEECT service
852	(354)	ADDRESS	4	ECVTFACL	"V(IEAVFACL)" Address of 2048-byte facility area mapped by IHAFACL.
856	(358)	SIGNED	2	ECVTMAXCOREID	When CvtProcAsCore is on, the maximum CPU Core Id allowed in the system for this IPL. When CvtProcAsCore is off, this will be set to CVTMAXMP.
858	(35A)	SIGNED	2	ECVTNUMCPUIDSINCORE	The maximum number of CPUs that can "fit" on a CPU Core. This doesn't mean all of them can be active. This can be looked at as how many IDs exist between thread 0 of two contiguous cores. When CvtProcAsCore is off, this will be set to 1.
860	(35C)	ADDRESS	4	ECVTNTRM	"V(IEANTRTM)" Name/Token resource manager @
864	(360)	ADDRESS	4	ECVTSDC	Owner: SDC
868	(364)	ADDRESS	4	ECVTHIAB	Anchor for Hardware Instrumentation Anchor Block. Ownership: HIS Serialization: None. Set during HIS initialization.

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
872	(368)	ADDRESS	4	ECVTHWIP	Anchor Block for BCPii AS Ownership: HWI Serialization: None. Set during BCPii initialization
876	(36C)	ADDRESS	4	ECVTSCPIN	Address of current SCPINFO data block, unlike CVTSCPIN which is the IPL-time SCPINFO data block. Mapped by IHASCCB.
880	(370)	DBL WORD	8	ECVTHP1	Pointer to Heap Pool 1 structure supporting macro IARST64 for common storage. Ownership: RSM. Serialization: CSG
888	(378)	SIGNED	2	ECVTMAXMPNUMBYTESINMASK	Maximum number of bytes a bitmask of CVTMAXMP bits would take up, rounded to a multiple of
890	(37A)	SIGNED	2	ECVTPHYSICALTOLOGICALMASK	"OR" this value with a CPUs physical ID to obtain its logical ID
892	(37C)	SIGNED	2	ECVTLOGICALTOPHYSICALMASK	"AND" this value with a CPUs logical ID to obtain its physical ID
894	(37E)	BITSTRING	1	ECVTAPPFLAGS	Application-set flags Serialization: CS
		1...		ECVTSTCKSYNCREPLACED	"X'80'" A product has replaced system control block fields that contain the entry point addresses for STCKSYNC services. The system is not to reset these fields to their IPL-time values.
895	(37F)	BITSTRING	1	ECVTR37F	Reserved for future

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
896	(380)	ADDRESS	4	ECVT_GETSRBIDTOKEN	"V(IEAVSCHY)" Address of the routine to return the SrbIdToken of the current preemptible-class SRB - Caller must be running under the preemptible-class SRB for which the SrbIdToken is to be returned. - Caller may be AMODE 31 or 64, must be key 0 Supervisor state. - Caller may hold any locks, none are required. - Primary ASC mode. - Any P, Any S, Any H. - Load this address into GR 15 - Issue BASR 14,15 - 31-bit GRs 2-13, high halves 2-14, and ARs 2-14 will be preserved. - On exit, if GR 15 contains 0, output consists of: 64-bit GR0 - bytes 0-7 of the SrbIdToken 64-bit GR1 - bytes 8-15 of the SrbIdToken - On exit, GR 15 contains the return code: 0 = SrbIdToken succsssfully obtained 8 = Current unit of work is a preemptible class SRB but no SrbIdToken was requested when it was created 12 = Current unit of work is not a preemptible class SRB

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
900	(384)	ADDRESS	4	ECVTXTSW	"V(ISGXSRBW)" Address of "Cross-memory TCB or SRB wait" routine. - Caller must be AMODE 31, key 0, supervisor state, enabled for I/O and external interrupts, holding no locks. - SRB or task mode. - Primary ASC mode. - Any P, Any S, Any H. - Load this address into GR 15, - Issue BASR 14,15 - 31-bit GRs 2-13, high halves 2-14, and ARs 2-14 will be preserved. - On entry R1 should contain the address of a standard parameter list. The parameter list consists of a fullword that is the address of an 8-byte area that contains the wait time in TOD clock format. - On exit, GR 15 contains the return code: 0 = Wait successfully completed. 16 = Unable to obtain storage to perform the suspend operation. 20 = SUSPEND w/TOKEN is prohibited for this SRB. A PURGEDQ might already have been issued for this SRB. 24 = An unrecoverable error occurred in SUSPEND processing. - Potential Abend Codes:
	AC7	REASON-CODE 00410001: RESUME request did not complete normally			
	AC7	REASON-CODE 00410002: An error occurred during the timer DIE execution and the FRR abended the owning task for the SRB that was to be resumed			
904	(388)	ADDRESS	4	ECVT_SMF_CMS_LOCKINST_ADDR	"V(CMSSMFLP)" Address of the SMF CMS instrumentation data for the system
908	(38C)	ADDRESS	4	ECVT_ENQDEQ_CMS_LOCKINST_ADDR	"V(CMSEDLPP)" Address of the ENQ/DEQ CMS instrumentation data for the system
912	(390)	ADDRESS	4	ECVT_LATCH_CMS_LOCKINST_ADDR	"V(CMSLATLP)" Address of the Latch CMS instrumentation data for the system
916	(394)	ADDRESS	4	ECVT_CMS_LOCKINST_ADDR	"V(CMSLP)" Address of the CMS instrumentation data for the system
920	(398)	ADDRESS	4	ECVTHZRB	Address of the HZRB Ownership: Runtime Diagnostics
	1...			ECVTHZRT	"X'80'" RTD has terminated
924	(39C)	ADDRESS	4	ECVTGTZ	Address of GTZ block Ownership: Generalized Tracker
928	(3A0)	ADDRESS	4	ECVTCPGUC	"V(IGVCPGUC)" IGVCPGUC

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
932	(3A4)	ADDRESS	4	ECVTCPFRC	"V(IGVCPFRC)" IGVCPFRC
936	(3A8)	ADDRESS	4	ECVTCPGCC	"V(IGVCPGCC)" IGVCPGCC
940	(3AC)	SIGNED	2	ECVT_INSTALLED_CORE_HWM	The highest core number currently installed. Could increase upon dynamic core/CPU addition.
942	(3AE)	SIGNED	2	ECVT_INSTALLED_CORE_AT_IPL	The highest core number installed at the time of IPL.
944	(3B0)	DBL WORD	8	ECVTEND(0)	End of the ECVT.
944	(3B0)	X'FF'	0	ECVT_MAX_HIGHESTCPUID	"ECVT_zOSV2R1_highestCPUID" The highest physical CPU ID allowed in a z/OS system. If you use this equate, you must be prepared to reassemble if this value changes in a new release. IBM recommends using CVTMAXMP at runtime.
944	(3B0)	X'100'	0	ECVT_MAX_CPUMASKSIZEINBITS	"ECVT_zOSV2R1_CPUMaskSizeInBits" The maximum number of bits needed to allocate storage at assemble time to guarantee enough storage to hold a full CPU mask of any current or prior release. If you use this equate, you must be prepared to reassemble if this value changes in a new release. IBM recommends using CVTMAXMP at runtime.
944	(3B0)	X'20'	0	ECVT_MAX_CPUMASKSIZEINBYTES	"ECVT_max_CPUMaskSizeInBits/8" The maximum number of bytes needed to allocate storage at assemble time to guarantee enough storage to hold a full CPU mask of of any current or prior release. If you use this equate, you must be prepared to reassemble if this value changes in a new release. IBM recommends using ECVTMaxMPNumBytesInMask at runtime.
944	(3B0)	X'FF'	0	ECVT_ZOSV2R1_HIGHESTCPUID	"255" The highest physical CPU ID allowed in a z/OS system up to and including z/OS V2R1. This constant will never change. IBM recommends using CVTMAXMP at runtime.
944	(3B0)	X'100'	0	ECVT_ZOSV2R1_CPUMASKSIZEINBITS	"256" The number of bits needed to allocate storage at assemble time to guarantee enough storage to hold a full CPU mask up to and including release z/OS V2R1. This constant will never change. IBM recommends using CVTMAXMP at runtime.

Table 750. Structure ECVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
944	(3B0)	X'20'	0	ECVT_ZOSV2R1_CPUMASKSIZEINBYTES	"ECVT_zOSV2R1_CPUMaskSizeInBits/8" Number of bytes needed to allocate storage at assemble time to guarantee enough storage to hold a full CPU mask up to and including release z/OS V2R1. This constant will never change. IBM recommends using ECVTMaxMPNumBytesInMask at runtime.
944	(3B0)	X'63'	0	ECVT_ZOSR11_HIGHESTCPUID	"99" The highest physical CPU ID allowed in a z/OS system up to and including z/OS V1R11. This constant will never change. IBM recommends using CVTMAXMP at runtime.
944	(3B0)	X'80'	0	ECVT_ZOSR11_CPUMASKSIZEINBITS	"128" The number of bits needed to allocate storage at assemble time to guarantee enough storage to hold a full CPU mask up to and including release z/OS V1R11. This constant will never change. IBM recommends using CVTMAXMP at runtime.
944	(3B0)	X'10'	0	ECVT_ZOSR11_CPUMASKSIZEINBYTES	"ECVT_zOSR11_CPUMaskSizeInBits/8" The number of bytes needed to allocate storage at assemble time to guarantee enough storage to hold a full CPU mask up to and including release z/OS V1R11. This constant will never change. IBM recommends using ECVTMaxMPNumBytesInMask at runtime.

Table 751. Cross Reference for ECVT

Name	Offset	Hex Tag
ECVT	0	
ECVT_CMS_LOCKINST_ADDR	394	
ECVT_CUSTOMER_AREA_ADDR	58	
ECVT_ENQDEQ_CMS_LOCKINST_ADDR	38C	
ECVT_GETSRBIDTOKEN	380	
ECVT_HCWA	2F8	0
ECVT_INSTALLED_CORE_AT_IPL	3AE	0
ECVT_INSTALLED_CORE_HWM	3AC	0
ECVT_INSTALLED_CPU_AT_IPL	2CA	0
ECVT_INSTALLED_CPU_HWM	2C8	0
ECVT_LATCH_CMS_LOCKINST_ADDR	390	
ECVT_MAX_CPUMASKSIZEINBITS	3B0	100

Table 751. Cross Reference for ECVT (continued)

Name	Offset	Hex Tag
ECVT_MAX_CPUMASKSIZEINBYTES	3B0	20
ECVT_MAX_HIGHESTCPUID	3B0	FF
ECVT_SMF_CMS_LOCKINST_ADDR	388	
ECVT_ZOSR11_CPUMASKSIZEINBITS	3B0	80
ECVT_ZOSR11_CPUMASKSIZEINBYTES	3B0	10
ECVT_ZOSR11_HIGHESTCPUID	3B0	63
ECVT_ZOSV2R1_CPUMASKSIZEINBITS	3B0	100
ECVT_ZOSV2R1_CPUMASKSIZEINBYTES	3B0	20
ECVT_ZOSV2R1_HIGHESTCPUID	3B0	FF
ECVTAES	170	
ECVTALCK	110	
ECVTALOC	3B	0
ECVTAPME	48	
ECVTAPMS	44	
ECVTAPPC	28	
ECVTAPPFLAGS	37E	0
ECVTASA	E8	
ECVTAXRB	34C	
ECVTAXRT	34C	80
ECVTBCBA	234	
ECVTBPME	40	
ECVTBPMS	3C	
ECVTCAA	58	58
ECVTCACHELINESIZE	2C0	0
ECVTCACHELINESTARTBDY	2C2	0
ECVTCAL	9C	
ECVTCBLS	260	
ECVTCDYN	250	
ECVTCEAB	348	
ECVTCEAT	348	80
ECVTCEME	1D4	
ECVTCEMR	1D8	
ECVTCEMT	1C4	0
ECVTCHSC	30	80
ECVTCH1	340	
ECVTCH2	344	
ECVTCICB	224	
ECVTCLNU	130	80
ECVTCLON	108	4040
ECVTCMPS	F8	
ECVTCNZ	3A	0
ECVTCPFRC	3A4	
ECVTCPFRM	308	
ECVTCPGCC	3A8	
ECVTCPGCM	30C	
ECVTCPGUC	3A0	
ECVTCPGUM	304	
ECVTCPLX	4	
ECVTCRDT	288	

Table 751. Cross Reference for ECVT (continued)

Name	Offset	Hex Tag
ECVTCRGR	210	
ECVTCRIT	2CC	
ECVTCSM	C8	
ECVTCSRB	214	
ECVTCSVN	38	0
ECVTCSVT	E4	
ECVTCTBL	CC	
ECVTCTXR	20C	
ECVTCURX	208	
ECVTDGNB	14C	
ECVTDLCB	88	
ECVTDLPF	228	
ECVTDLPL	22C	
ECVTDPQH	60	
ECVTDUCU	10C	
ECVTEAEX	1A4	
ECVTEAUX	1A8	
ECVTECT	350	
ECVTECVT	0	C5C3E5E3
ECVTEND	3B0	
ECVTENVT	140	
ECVTEORM	258	0
ECVTESTU	278	
ECVTESYM	12C	
ECVTESY1	134	
ECVTETPE	124	
ECVTETPT	13C	
ECVTEXPM	EC	
ECVTFACL	354	
ECVTFAIL	3B	40
ECVTFCDA	254	
ECVTFLGS	130	
ECVTFLG1	130	0
ECVTGMOD	10A	
ECVTGNON	10A	0
ECVTGRM	168	
ECVTGRMP	C0	
ECVTGRNG	10A	1
ECVTGSTA	10A	2
ECVTGTZ	39C	
ECVTHDNM	150	40404040
ECVTHIAB	364	
ECVTHISNMT	B4	
ECVTHP1	370	0
ECVTHWIP	368	
ECVTHZRB	398	
ECVTHZRT	398	80
ECVTIOSF	30	
ECVTIOS1	30	0

Table 751. Cross Reference for ECVT (continued)

Name	Offset	Hex Tag
ECVTIOS2	31	0
ECVTIOS3	32	0
ECVTIOS4	33	0
ECVTIPA	188	
ECVTIPST	1B0	
ECVTJCCT	11C	
ECVTLCXT	26C	
ECVTLKAD	2BC	
ECVTLKLN	2B8	0
ECVTLOAD	A0	0
ECVTLOGICALTOPHYSICALMASK	37C	0
ECVTLPID	2A8	0
ECVTLPNM	158	40404040
ECVTLPUB	298	0
ECVTLSAB	120	
ECVTLSEN	148	
ECVTLVID	2B0	0
ECVTMAXCOREID	358	
ECVTMAXMPNUMBYTESINMASK	378	0
ECVTMLPR	A8	0
ECVTMMEA	1A0	
ECVTMMEC	1AC	
ECVTMMEM	178	C9C5C1E5
ECVTMMEQ	19C	
ECVTMMET	18C	0
ECVTMMIG	2E4	
ECVTMMIG_BYTE0	2E4	
ECVTMMIG_EDAT2	2E4	80
ECVTMMIG_RI	2E4	20
ECVTMMIG_TX	2E4	40
ECVTMMIG_VEF	2E4	10
ECVTMSCH	98	
ECVTNTRM	35C	
ECVTNTTP	8C	
ECVTNUCP	FC	
ECVTNUMCPUIDSINCORE	35A	
ECVTNVDM	B8	
ECVTOCVT	F0	
ECVTOESI	270	0
ECVTOEXT	F4	
ECVTOMDA	34	
ECVTOMVS	F0	80
ECVTOSAI	280	0
ECVTOSARX	2F0	
ECVTOSARXH	2F0	0
ECVTOSARXL	2F4	0
ECVTOXSB	274	0
ECVTPDVL	206	40
ECVTPEST	24C	

Table 751. Cross Reference for ECVT (continued)

Name	Offset	Hex Tag
ECVTPETM	138	
ECVTPFA	284	
ECVTPHYSICALTOLOGICALMASK	37A	0
ECVTPIDN	238	40404040
ECVTPMAC	130	40
ECVTPMCR	D4	
ECVTPMCS	D0	
ECVTPMOD	204	4040
ECVTPNAM	1F0	40404040
ECVTPOWN	1E0	40404040
ECVTPRED	1C0	
ECVTPREL	202	4040
ECVTPSEQ	1DC	0
ECVTPTIM	11A	8
ECVTPVER	200	4040
ECVTPWVT	104	
ECVTQUCB	4C	
ECVTRBUP	27C	
ECVTREM1	218	
ECVTREM2	21C	
ECVTRFPT	2C4	
ECVTRINS	264	
ECVTRMD	240	
ECVTRMDP	240	
ECVTRMDS	244	0
ECVTRRMT	1BC	
ECVTRRSW	1B4	
ECVTRRTT	1B8	
ECVTRSMT	174	
ECVTRSU1	248	
ECVTR0BC	BC	0
ECVTR07C	7C	
ECVTR078	78	
ECVTR084	84	0
ECVTR10B	10B	0
ECVTR114	114	0
ECVTR2C3	2C3	0
ECVTR28C	28C	0
ECVTR37F	37F	0
ECVTSCF	330	
ECVTSCH	2C	
ECVTSCHA	80	
ECVTSCPIN	36C	
ECVTSDC	360	
ECVTSEIF	16C	
ECVTSLCA	300	
ECVTSLID	E0	0
ECVTSPLE	10	0
ECVTSPLQ	14	

Table 751. Cross Reference for ECVT (continued)

Name	Offset	Hex Tag
ECVTSPLX	8	40404040
ECVTSRBJ	90	
ECVTSRBL	94	
ECVTSRBR	230	
ECVTSRBT	5C	
ECVTSSDD	50	
ECVTSSDF	50	
ECVTSSDS	54	0
ECVTSTCKSYNCREPLACED	37E	80
ECVTSTC1	18	
ECVTSTC2	1C	
ECVTSTC3	20	
ECVTSTC4	24	
ECVTSTC5	338	
ECVTSTC6	33C	
ECVTSTX1	D8	
ECVTSTX2	DC	
ECVTSYMT	128	
ECVTTABT	207	8
ECVTTATF	207	40
ECVTTCP	B0	
ECVTTCRE	64	
ECVTTEDS	2E0	
ECVTTEDSTORAGEBYTESALLOCATED	2D8	0
ECVTTEDVECTORTABLEADDR	2D0	0
ECVTTENC	32C	
ECVTTESF	207	20
ECVTTGMF	207	10
ECVTTSTH	334	
ECVTTTCA	268	
ECVTTTFL	207	0
ECVTTTRC	207	80
ECVTVMNM	160	40404040
ECVTVSER	144	0
ECVTWARN	3B	80
ECVTWLM	C4	
ECVTWTOV	3A	80
ECVTXCFG	68	0
ECVTXFR3	220	
ECVTXPCB	294	
ECVTXRAT	100	
ECVTXTSW	384	
ECVT4QV1	310	
ECVT4QV2	314	
ECVT4QV3	318	
ECVT4QV4	31C	
ECVT4QV5	320	
ECVT4QV6	324	
ECVT4QV7	328	

Chapter 177. EDT Information

EDT Heading Information

Common Name: ELIGIBLE DEVICE TABLE MAPPING MACRO
Macro ID: IEFZB421
DSECT Name: EDTHDR
Owning Component: Allocation (SC1B4)
Eye-Catcher ID: 'EDT'
Offset: 0
Length: 3
Storage Attributes: Subpool: 241
Key: 1
Residency: ANY
Size: Dependant on system configuration
Created by: IEFIBERC
Pointed to by: EDTLEDTP
Serialization: via EDTLATCH macro
Function: THE ELIGIBLE DEVICE TABLE (EDT) IS USED BY DEVICE ALLOCATION TO ASSOCIATE UNIT DESCRIPTION INFORMATION WITH DEVICE TYPES AND DEVICES. IT IS ALSO USED TO DETERMINE THE GROUPS OF DEVICES FOR WHICH A PARTICULAR REQUEST IS ELIGIBLE.
THE EDT IS CREATED BY THE MVSCP OR BY USING INFORMATION IN THE I/O DEFINITION FILE AT NIP TIME. THE INFORMATION IS USED TO CREATE SUBTABLES WHICH MAKE UP THE EDT.
THE HEADER SECTION OF THE EDT CONTAINS POINTERS TO THE RESPECTIVE HEADERS OF EACH SUBTABLE.

EDT mapping

Table 752. Structure EDTHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	168	EDTHDR	EDT Header Section
0	(0)	CHARACTER	3	EDTNAME	'EDT' IDENTIFIER
3	(3)	UNSIGNED	1	EDTLEVEL	EDT LEVEL
4	(4)	CHARACTER	8	EDTID	EDT ID
4	(4)	CHARACTER	6	EDTCBNAM	CONTROL BLOCK NAME FOR TABLE
10	(A)	CHARACTER	2	EDTIDNUM	THE VERSION ID FOR THE PARTICULAR EDT
12	(C)	CHARACTER	8	EDTDATE	EDT CREATE DATE
20	(14)	CHARACTER	5	EDTTIME	EDT CREATE TIME
25	(19)	BITSTRING	1	EDTFLAGS	EDT flags
		1...		EDTIODF	If set, the EDT was built at NIP time
		.1..		EDTGLINX	Group locking index
		..1.		EDTDLOCK	If set, Dynamic Configuration changes to the order of the Device Preference Table have created a potential deadlock situation for group locking

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Table 752. Structure EDTHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1 11..		EDTSTATE	EDT state flags. One of these will be set during an EDT transition (ACTUATE1, ACTUATE2, or BACKOUT). When an EDT transition is not in process, may be residual.
		...1		EDT_ORIGINAL	Original EDT
		.... 1...		EDT_INTERMEDIATE	Intermediate EDT
		.... .1..		EDT_FINAL	Final EDT
		11		*	Reserved
26	(1A)	UNSIGNED	1	EDTSP	EDT subpool
27	(1B)	UNSIGNED	1	EDTKEY	EDT storage key
28	(1C)	ADDRESS	4	EDTLUVSP	POINTER TO LOOK-UP-VALUE SECTION
32	(20)	ADDRESS	4	EDTGENSP	POINTER TO GENERIC SECTION
36	(24)	ADDRESS	4	EDTGRPSP	PTR TO GROUP SECTION
40	(28)	ADDRESS	4	EDTUCBSP	PTR TO DEVICE NUMBER SECTION
44	(2C)	ADDRESS	4	EDTMSKTP	PTR TO GROUP MASK TABLE
48	(30)	ADDRESS	4	EDTGRPPP	POINTER TO GROUP POINTER SECTION
52	(34)	ADDRESS	4	EDTPREFP	PTR TO PREFERENCE TABLE
56	(38)	ADDRESS	4	EDTTAPEP	PTR TO THE TAPE MAXIMUM ELIGIBILITY TABLE
60	(3C)	CHARACTER	0	EDTVERS3	Version 3 updates follow
60	(3C)	SIGNED	4	EDTLUVL	Length of LUVSECT
64	(40)	SIGNED	4	EDTGENL	Length of GENSECT
68	(44)	SIGNED	4	EDTGRPL	Length of GRPSECT
72	(48)	SIGNED	4	EDTUCBL	Length of EUCBSECT
76	(4C)	SIGNED	4	EDTMSKTL	Length of GRMSKTAB
80	(50)	SIGNED	4	EDTGRPPL	Length of GRPPSECT
84	(54)	SIGNED	4	EDTPREFL	Length of PREFTAB
88	(58)	SIGNED	4	EDTTAPEL	Length of TAPETAB
92	(5C)	ADDRESS	4	EDTLIBSP	Pointer to the Library Section
96	(60)	SIGNED	4	EDTLIBL	Length of LIBSECT
100	(64)	ADDRESS	4	EDTDPLSP	Pointer to the Device Pool Section
104	(68)	SIGNED	4	EDTDPLL	Length of DPLSECT
108	(6C)	ADDRESS	4	EDTUPLP	Pointer to UCB Pointer List (UPL)
112	(70)	SIGNED	4	EDTUPLL	Length of UPL
116	(74)	ADDRESS	4	EDTGMCTP	Pointer to Group Mask Conversion Table (GMCT)
120	(78)	SIGNED	4	EDTGMCTL	Length of GMCT
124	(7C)	ADDRESS	4	EDTCMPGP	Pointer to the Compatible Generic Section
128	(80)	SIGNED	4	EDTCMPGL	Length of CMPGSECT
132	(84)	SIGNED	2	EDTDEFAF	LUVTAB index for the "unit affinity ignored" default */
134	(86)	SIGNED	2	*	Reserved, available
136	(88)	CHARACTER	10	EDTDATE2	EDT Creation Date, in mm/dd/yyyy format. Should be referenced *only* if EDTLEVEL >= constant EDTSP430
146	(92)	CHARACTER	2	*	Reserved, get to word boundary.

Table 752. Structure EDTHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
148	(94)	SIGNED	4	EDTHDRL	Length of EDT header. This field should only be used by the system for managing EDT storage. EDTLEVEL should be used for making version determinations.
152	(98)	CHARACTER	16	*	Reserved. Note that as of HBB77A0, the system obtains extra space beyond the reserved area defined here for rounding purposes. Once the reserved area defined here is exhausted, we should account for all of the reserved space in this mapping, and adjust the EDT version as appropriate.

Table 753. Structure LUVSECT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	LUVSECT	
0	(0)	CHARACTER	16	LUVHDR	
0	(0)	CHARACTER	8	LUVHDRNM	SECTION HEADER NAME
8	(8)	SIGNED	4	LUVENTNO	NUMBER OF ENTRIES IN THIS SECTION
12	(C)	SIGNED	2	LUVFIRST	Index to the first generic/ esoteric Look-Up-Value
14	(E)	SIGNED	2	LUVPOOLF	Index to the first device pool Look-Up-Value
16	(10)	CHARACTER	52	LUVENTRY(*)	TABLE OF LOOKUP ENTRIES
16	(10)	CHARACTER	32	LUVVERS2	Version 2 LUV entry.
16	(10)	CHARACTER	8	UNITNAME	UNIT NAME - IN EBCDIC
24	(18)	CHARACTER	4	LUVALUE	LOOK-UP-VALUE FOR UNIT NAME
24	(18)	UNSIGNED	2	LUVTOKEN	Esoteric token value
24	(18)	CHARACTER	1	LUVMOD	LUV DEVICE MODEL
25	(19)	CHARACTER	1	LUVOPT	LUV DEVICE OPTION
26	(1A)	CHARACTER	1	LUVCLASS	LUV DEVICE CLASS
27	(1B)	CHARACTER	1	LUVTYPE	LUV DEVICE TYPE
28	(1C)	SIGNED	4	LUVGMTP	INDEX TO GROUP MASK TABLE ENTRY FOR THIS L-U-V
32	(20)	SIGNED	4	LUVAGMTP	INDEX TO ALTERNATE GROUP MASK TABLE ENTRY, IF ANY
36	(24)	SIGNED	4	LUVGENNO	NO. GENERICS ASSOCIATED WITH THIS L-U-V
40	(28)	BITSTRING	4	LUVFLAGS	INDICATOR FLAGS
		1...		LUVVAM	ELIGIBLE FOR VIO DATA SETS
		.1..		LUVAGMSK	AN ALTERNATE GROUP MASK PTR EXISTS IN THIS ENTRY
		..1.		LUVMGENS	ALLOCATION OF MULTIPLE GENERICS WITHIN THIS L-U-V IS VALID
		...1		LUVGENR	NAME IS A GENERIC
		.... 1...		LUVESOTR	NAME IS AN ESOTERIC
		.... .1..		LUVGGENR	NAME IS A GENERATED GENERIC
		.... ..1.		LUVGESOT	NAME IS A GENERATED ESOTERIC

Table 753. Structure LUVSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		LUVOVESO	INDICATES THIS IS A SYSTEM GENERATED OVERRIDING ESOTERIC WHEN SET.
41	(29)	1...		LUVPOOL	Name is a device pool
		.111 1111		*	Reserved
42	(2A)	BITSTRING	2	LUVAFFIX	AFFINITY INDEX
44	(2C)	SIGNED	2	LUVGENP	INDEX INTO FIRST GENERIC FOR THIS L-U-V
46	(2E)	SIGNED	2	LUVNXTP	Index to the next Look-Up-Value section entry
48	(30)	CHARACTER	20	LUVVERS3	Version 3 updates follow.
48	(30)	SIGNED	4	LUVGRPNO	Total number of groups for this Look-Up-Value
52	(34)	SIGNED	4	LUVUCBNO	Total number of devices for this Look-Up-Value
56	(38)	SIGNED	4	LUVLIBIN	For a device pool, index of library's LIBSECT entry
60	(3C)	SIGNED	4	LUVCMPGN	Count of compatible generics
64	(40)	SIGNED	4	LUVCMPGI	Index of first compatible generic CMPGSECT entry

Table 754. Structure GENSECT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	GENSECT	
0	(0)	CHARACTER	12	GENHDR	GENERIC SECTION HEADER
0	(0)	CHARACTER	8	GENHDRNM	SECTION HEADER NAME
8	(8)	SIGNED	4	GENENTNO	NUMBER OF GENERIC ENTRIES
12	(C)	CHARACTER	16	GENENTRY(*)	TABLE OF GENRIC ENTRIES
12	(C)	CHARACTER	4	GENDEVT	GENERIC DEVICE TYPE
12	(C)	CHARACTER	1	GENMOD	GENERIC DEVICE MODEL
13	(D)	CHARACTER	1	GENOPT	GENERIC DEVICE OPTION
14	(E)	CHARACTER	1	GENCLASS	GENERIC DEVICE CLASS
15	(F)	CHARACTER	1	GENTYPE	GENERIC DEVICE TYPE
16	(10)	SIGNED	4	GENGRPNO	Number of Groups for this Device Type.
20	(14)	UNSIGNED	4	GENGRPTR	Index to the first Group Pointer Section Entry (GRPTENTY) for this Generic.
24	(18)	SIGNED	2	GENNXTP	Index to the next entry in this section.
26	(1A)	CHARACTER	2	*	Not used and available.

Table 755. Structure GRPTSECT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	GRPTSECT	GROUP POINTER SECTION IS ADDRESSABLE VIA THE PTR IN THE HEADER SECTION
0	(0)	CHARACTER	12	GRPTHDR	PRE-TABLE SECTION
0	(0)	CHARACTER	8	GRPTHDNM	SECTION HEADER NAME

Table 755. Structure GRPTSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	SIGNED	4	GRPTENNO	COUNT OF ENTRIES IN GROUP POINTER TABLE
12	(C)	CHARACTER	8	GRPTENTY(*)	Group Pointer Section entry.@L1A
12	(C)	UNSIGNED	4	GRPTR	Index to the first Group Section Entry.
16	(10)	UNSIGNED	4	GRPTNXTP	Index to the next entry in this section.

Table 756. Structure GRPSECT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	GRPSECT	
0	(0)	CHARACTER	12	GRPHDR	Group Section Header.
0	(0)	CHARACTER	8	GRPHDRNM	Section Header Name.
8	(8)	SIGNED	4	GRPENTNO	Number of entries in this section.
12	(C)	CHARACTER	16	GRPENTRY(*)	Table of Group entries.
12	(C)	UNSIGNED	4	GRPID	Group ID.
16	(10)	UNSIGNED	4	GRPUCBNO	Number of devices associated with this Group.
20	(14)	SIGNED	4	GRPUCBI	Index into the Device Number Section for this Group.
24	(18)	UNSIGNED	4	GRPNXTP	Index to the next Group entry.

Table 757. Structure EUCBSECT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	EUCBSECT	
0	(0)	CHARACTER	12	EUCBHDR	DEVICE NUMBER SECTION HEADER
0	(0)	CHARACTER	8	EUCHDRNM	SECTION HEADER NAME
8	(8)	SIGNED	4	EUCBENNO	NO. ENTRIES IN SECTION
12	(C)	CHARACTER	8	EUCBENTY(*)	TABLE OF DEVICE NUMBERS
12	(C)	CHARACTER	4	EUCBNAME	LIST OF DEVICE NUMBERS FOR EACH UNIT OF EACH GROUP
16	(10)	SIGNED	4	EUCBNXTP	INDEX OF NEXT ENTRY IN THE DEVICE NUMBER SECTION

Table 758. Structure GRMSKTAB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	GRMSKTAB	
0	(0)	CHARACTER	16	GMTHDR	
0	(0)	CHARACTER	8	GMTHDRNM	SECTION HEADER NAME
8	(8)	SIGNED	4	GMTENTNO	NO. ENTRIES IN TABLE
12	(C)	SIGNED	4	GMTENTLN	LENGTH OF EACH ENTRY
16	(10)	CHARACTER	1	GMTTABLE(*)	LENGTH OF EACH ENTRY

EDT mapping

Table 759. Structure GMTENTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	GMTENTRY	Format of entry
0	(0)	CHARACTER	*	GRPMASK	BIT MASK. LENGTH OF MASK IS IN # OF BYTES AND IS GIVEN IN HDR OF THIS SECTION

Table 760. Structure GMCTAB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	GMCTAB	Group Mask Conversion Table (GMCT)
0	(0)	CHARACTER	16	GMCTHDR	GMCT Header
0	(0)	CHARACTER	8	GMCTHDNM	Section header name
8	(8)	SIGNED	4	GMCTENNO	Number entries in table
12	(C)	SIGNED	4	GMCTENLN	Length of each entry
16	(10)	BITSTRING	1	GMCT(*)	Group Mask Conversion Table Array

Table 761. Structure GMCTENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	GMCTENT	Format of GMCT entry
0	(0)	CHARACTER	*	GMCTMASK	Bit Mask. Length of mask is in number of bytes and is given in the header of this section.

Table 762. Structure PREFTAB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	PREFTAB	
0	(0)	CHARACTER	16	PREFHDR	PREFERENCE TABLE HEADER
0	(0)	CHARACTER	8	PREFHDNM	SECTION HEADER NAME
8	(8)	SIGNED	4	PREFENNO	NUMBER OF TABLE ENTRIES
12	(C)	SIGNED	2	PREFFRST	INDEX OF FIRST ENTRY
14	(E)	BITSTRING	1	PREFFLGS	PREF TABLE FLAG FIELD
		1...		PREF3480	3480 PREFERRED TO 3480X
15	(F)	CHARACTER	1	*	RESERVED
16	(10)	CHARACTER	10	PREFENT(*)	TABLE OF PREFERENCE ENTRIES
16	(10)	CHARACTER	8	PREFGEN	GENERIC NAME ENTRY
24	(18)	SIGNED	2	PREFNXTP	INDEX OF NEXT ENTRY IN TABLE

Table 763. Structure TAPETAB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	TAPETAB	TAPE TABLE
0	(0)	CHARACTER	10	TAPEHDR	SECTION HEADER
0	(0)	CHARACTER	8	TAPHDRNM	SECTION HEADER NAME
8	(8)	UNSIGNED	2	TAPENTNO	NUMBER OF TAPE ENTRIES
10	(A)	CHARACTER	12	TAPENTRY(*)	TAPE TABLE ENTRY
10	(A)	CHARACTER	4	TAPEREQ	THE DEVICE TYPE ALLOCATED

Table 763. Structure TAPETAB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
14	(E)	BITSTRING	1	TAPEDEN	DENSITY OF DATASET
15	(F)	BITSTRING	1	TAPEMODE	COMPACTION MODE
16	(10)	CHARACTER	2	*	RESERVED
18	(12)	CHARACTER	4	TAPEMAX	DEVICE TYPE FOR MAXIMUM ELIGIBILITY

Table 764. Structure LIBSECT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	LIBSECT	Library Section
0	(0)	CHARACTER	20	LIBHDR	Header
0	(0)	CHARACTER	8	LIBHDRNM	Control block identifier
8	(8)	SIGNED	4	LIBENTNO	Number of libraries
12	(C)	SIGNED	4	LIBFIRST	First library entry index
16	(10)	BITSTRING	1	LIBHDFLG	Configuration indicators
		1...		LIBGOTNM	Library names exist
		.111 1111		*	Reserved
17	(11)	CHARACTER	3	*	Reserved
20	(14)	CHARACTER	36	LIBENTRY(*)	Entry
20	(14)	SIGNED	4	LIBNEXTP	Next LIBSECT entry
24	(18)	CHARACTER	8	LIBNAME	Library name
32	(20)	CHARACTER	5	LIBID	Library identifier
37	(25)	BITSTRING	1	LIBENFLG	Library indicators
		1...		LIBATL	Automated library
		.1..		LIBMTL	Manual library
		..11 1111		*	Reserved
38	(26)	CHARACTER	2	*	Reserved
40	(28)	SIGNED	4	LIBDPLNO	Number of device pools
44	(2C)	SIGNED	4	LIBDPLIN	Index of first DPLSECT entry
48	(30)	CHARACTER	8	*	Reserved

Table 765. Structure DPLSECT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	DPLSECT	Device Pool Section
0	(0)	CHARACTER	20	DPLHDR	Header
0	(0)	CHARACTER	8	DPLHDRNM	Control block identifier
8	(8)	SIGNED	4	DPLENTNO	Number of device pools
12	(C)	SIGNED	4	DPLFIRST	First device pool entry index
16	(10)	CHARACTER	4	*	Reserved
20	(14)	CHARACTER	16	DPLENTRY(*)	Entry
20	(14)	SIGNED	4	DPLNEXTP	Next DPLSECT entry
24	(18)	SIGNED	4	DPLLUVIN	Associated LUVSECT entry
28	(1C)	CHARACTER	8	*	Reserved

Table 766. Structure CMPGSECT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	CMPGSECT	Compatible Generics

Table 766. Structure CMPGSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	CHARACTER	20	CMPGHDR	Header
0	(0)	CHARACTER	8	CMPGHDNM	Control block identifier
8	(8)	SIGNED	4	CMPGENNO	Number of generics
12	(C)	SIGNED	4	CMPGFRST	First generic entry index
16	(10)	CHARACTER	4	*	Reserved
20	(14)	CHARACTER	16	CMPGENT(*)	Entry
20	(14)	SIGNED	4	CMPGNXTP	Next CMPGSECT entry
24	(18)	SIGNED	4	CMPGLUVI	Associated LUVSECT entry
28	(1C)	CHARACTER	8	*	Reserved

Table 767. Constants for EDT

Len	Type	Value	Name	Description
Constants Note: EDTSPxxx level constants must aways increase in value as code in IEFAB4WX and other places does LESS THAN or GREATER THAN tests for EDTLEVEL, to avoid having to be hit each time a new EDTSPxxx constant is defined.				
3	CHARACTER	EDT	EDTLITRL	EDT ID FOR START OF TABLE
1	DECIMAL	2	EDTSP220	EDT Version number for SP220 - SP410
1	DECIMAL	3	EDTSP420	EDT Version number for SP420 (and above prior to Year 2000 work)
1	DECIMAL	4	EDTSP430	EDT Version number for SP430 and above with the Year 2000 work
1	DECIMAL	5	EDTZOS18	EDT Version number for z/OS 1.8 and above.
1	DECIMAL	0	EDTSUBP_WORK	EDT private subpool
1	DECIMAL	241	EDTSUBP	EDT common subpool
0	BIT	0	EDTGL1	Use global group lock 1
0	BIT	1	EDTGL2	Use global group lock 2
Declarations for the section names				
6	CHARACTER	IEFEDT	EDTIEFNM	EDT Header
8	CHARACTER	LUVTAB	EDTLUVNM	LUV SECTION
8	CHARACTER	DEVTAB	EDTDEVNM	DEVICE NUMBER
8	CHARACTER	GENTAB	EDTGENNM	GENERIC SECTION
8	CHARACTER	GRPTAB	EDTGRPNM	GROUP SECTION
8	CHARACTER	GPPTAB	EDTGPPNM	GROUP PTR SECT
8	CHARACTER	GMSTAB	EDTGMSNM	GROUP MASK SECT
8	CHARACTER	GMCTAB	EDTGMCNM	Group Mask Conversion Table section
8	CHARACTER	PREFTAB	EDTPRENM	PREFERENCE TAB
8	CHARACTER	TAPTAB	EDTTAPNM	TAPE TABLE
8	CHARACTER	LIBTAB	EDTLIBNM	Library Section
8	CHARACTER	DPLTAB	EDTDPLNM	Device Pool Section
8	CHARACTER	CMPGTAB	EDTCMGNM	Compatible Generic Section

Table 768. Cross Reference for EDT

Name	Offset	Hex Tag
CMPGENNO	8	
CMPGENT	14	
CMPGFRST	C	
CMPGHDNM	0	
CMPGHDR	0	
CMPGLUVI	18	
CMPGNXTP	14	
CMPGSECT	0	
DPLENTNO	8	
DPLENTRY	14	
DPLFIRST	C	
DPLHDR	0	
DPLHDRNM	0	
DPLLUVIN	18	
DPLNEXTP	14	
DPLSECT	0	
EDT_FINAL	19	04
EDT_INTERMEDIATE	19	08
EDT_ORIGINAL	19	10
EDTCBNAM	4	
EDTCMPGL	80	
EDTCMPGP	7C	
EDTDATE	C	
EDTDATE2	88	
EDTDEFAF	84	
EDTDLOCK	19	20
EDTDPLL	68	
EDTDPLSP	64	
EDTFLAGS	19	
EDTGENL	40	
EDTGENSP	20	
EDTGLINX	19	40
EDTGMCTL	78	
EDTGMCTP	74	
EDTGRPL	44	
EDTGRPPL	50	
EDTGRPPP	30	
EDTGRPSP	24	
EDTHDR	0	
EDTHDRL	94	
EDTID	4	
EDTIDNUM	A	
EDTIODF	19	80
EDTKEY	1B	
EDTLEVEL	3	
EDTLIBL	60	
EDTLIBSP	5C	
EDTLUVL	3C	
EDTLUVSP	1C	

Table 768. Cross Reference for EDT (continued)

Name	Offset	Hex Tag
EDTMSKTL	4C	
EDTMSKTP	2C	
EDTNAME	0	
EDTPREFL	54	
EDTPREFP	34	
EDTSP	1A	
EDTSTATE	19	1C
EDTTAPEL	58	
EDTTAPEP	38	
EDTTIME	14	
EDTUCBL	48	
EDTUCBSP	28	
EDTUPLL	70	
EDTUPLP	6C	
EDTVERS3	3C	
EUCBENNO	8	
EUCBENTY	C	
EUCBHDR	0	
EUCBNAME	C	
EUCBNXTP	10	
EUCBSECT	0	
EUCHDRNM	0	
GENCLASS	E	
GENDEVT	C	
GENENTNO	8	
GENENTRY	C	
GENGRPNO	10	
GENGRPTR	14	
GENHDR	0	
GENHDRNM	0	
GENMOD	C	
GENNXTP	18	
GENOPT	D	
GENSECT	0	
GENTYPE	F	
GMCT	10	
GMCTAB	0	
GMCTENLN	C	
GMCTENNO	8	
GMCTENT	0	
GMCTHDNM	0	
GMCTHDR	0	
GMCTMASK	0	
GMTENTLN	C	
GMTENTNO	8	
GMTENTRY	0	
GMTHDR	0	
GMTHDRNM	0	
GMTTABLE	10	

Table 768. Cross Reference for EDT (continued)

Name	Offset	Hex Tag
GRMSKTAB	0	
GRPENTNO	8	
GRPENTRY	C	
GRPHDR	0	
GRPHDRNM	0	
GRPID	C	
GRPMASK	0	
GRPNXTP	18	
GRPSECT	0	
GRPTENNO	8	
GRPTENTY	C	
GRPTHDNM	0	
GRPTHDR	0	
GRPTNXTP	10	
GRPTR	C	
GRPTSECT	0	
GRPUCBI	14	
GRPUCBNO	10	
LIBATL	25	80
LIBDPLIN	2C	
LIBDPLNO	28	
LIBENFLG	25	
LIBENTNO	8	
LIBENTRY	14	
LIBFIRST	C	
LIBGOTNM	10	80
LIBHDFLG	10	
LIBHDR	0	
LIBHDRNM	0	
LIBID	20	
LIBMTL	25	40
LIBNAME	18	
LIBNEXTP	14	
LIBSECT	0	
LUVAFFIX	2A	
LUVAGMSK	28	40
LUVAGMTP	20	
LUVALUE	18	
LUVCLASS	1A	
LUVCMPGI	40	
LUVCMPGN	3C	
LUVENTNO	8	
LUVENTRY	10	
LUVESOTR	28	08
LUVFIRST	C	
LUVFLAGS	28	
LUVGENNO	24	
LUVGENP	2C	
LUVGENR	28	10

Table 768. Cross Reference for EDT (continued)

Name	Offset	Hex Tag
LUVGESOT	28	02
LUVGGENR	28	04
LUVGMTP	1C	
LUVGRPNO	30	
LUVHDR	0	
LUVHDRNM	0	
LUVLIBIN	38	
LUVMGENS	28	20
LUVMOD	18	
LUVNXTP	2E	
LUVOPT	19	
LUVOVESO	28	01
LUVPOOL	29	80
LUVPOOLF	E	
LUVSECT	0	
LUVTOKEN	18	
LUVTYPE	1B	
LUVUCBNO	34	
LUVVAM	28	80
LUVVERS2	10	
LUVVERS3	30	
PREFENNO	8	
PREFENT	10	
PREFFLGS	E	
PREFFRST	C	
PREFGEN	10	
PREFHDNM	0	
PREFHDR	0	
PREFNXTP	18	
PREFTAB	0	
PREF3480	E	80
TAPEDEN	E	
TAPEHDR	0	
TAPEMAX	12	
TAPEMODE	F	
TAPENTNO	8	
TAPENTRY	A	
TAPEREQ	A	
TAPETAB	0	
TAPHDRNM	0	
UNITNAME	10	

Chapter 178. EED Information

EED Heading Information

Common Name:	RTM1 Work Area
Macro ID:	IHART1W
DSECT Name:	RT1W, RT1TRACK, RT1TRECC, RTMW
Owning Component:	RECOVERY TERMINATION MANAGER (SCRTM)
Eye-Catcher ID:	none
Storage Attributes:	Subpool: 239 or in PSA Key: 0 Residency: ABOVE OR BELOW THE 16M LINE
Size:	192 bytes for RT1W 464 bytes for RT1X
Created by:	IEAVNIP0 or IEEVCPU
Pointed to by:	FRRSRTMA field of the FRRS data area
Serialization:	RTM1 INTERNAL SERIALIZATION
Function:	The RT1W is used to describe the current error condition and to provide an internal work area for the RTM1 subfunctions.

EED mapping

Table 769. Structure ETAB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	856	ETAB	ETAB based on RTCTEEDA
0	(0)	CHARACTER	4	ETABID	ETAB identifier
4	(4)	CHARACTER	4	*	Reserved field
8	(8)	CHARACTER	8	ETABENTR(106)	Main part of ETAB
8	(8)	ADDRESS	4	ETABEED	Pointer to hold EED address
12	(C)	ADDRESS	4	ETABASCB	Pointer to the EED's address space control block

Table 770. Structure EED

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	760	EED	Extended error descriptor
0	(0)	ADDRESS	4	EEDFWRDP	Pointer to next EED on chain or zero
4	(4)	CHARACTER	4	EEDDES	Description of EED contents
4	(4)	CHARACTER	1	EEDID	Type of information in EED
5	(5)	CHARACTER	1	EEDFLAGS	Flags describing information in EEDs
		1...		EEDERFL	On means that the errorid is supplied in this EED
		.1..		EEDSPI	On means this EED is part of an SPI control block (not from the EED pool)
		..1.		EEDSRBTP	On means this EED was created for SRB-to-TASK percolation processing

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Table 770. Structure EED (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		EEDHWDP	On means this EED contains hardware data information
		.... 1...		EEDSKIP	Skip this EED. This flag is set only for DUMPXTYP type EEDs. The data space storage ranges were not accessable, and thus the EED is empty and should be skipped.
		.... .1..		EEDGETM	On means that this EED was getmained from subpool 213 (private dref above the line, owned by the task to which it was queued)
		11		*	Reserved
6	(6)	CHARACTER	1	EEDFLAG2	Flags to pass from RTM1 to RTM2 indicators set by SLIP
		1...		EEDNOSUP	Used to communicate the SLIP request to dump suppression not to suppress dumps
		.1..		EEDNODMP	Used to communicate dump suppression by SLIP from RTM1 to RTM2
		..1.		EEDRCRD	Used to communicate SLIP indication of recording from RTM1 to RTM2
		...1		*	Reserved
		.... 1...		EEDNOSVD	Used to communicate dump suppression of SVCDUMPs by SLIP from RTM1 to RTM2
		.... .1..		EEDNOSYA	Used to communicate dump suppression of SYSABEND dumps by SLIP from RTM1 to RTM2
		.... ..1.		EEDNOSYM	Used to communicate dump suppression of SYSMDUMPS by SLIP from RTM1 to RTM2
		1		EEDNOSYU	Used to communicate dump suppression of SYSUDUMPs by SLIP from RTM1 to RTM2
7	(7)	CHARACTER	1	*	Reserved
8	(8)	CHARACTER	4	EEDERROR	Description of the error which necessitated EEDs
8	(8)	UNSIGNED	1	EEDMODE	System mode at time of error
9	(9)	CHARACTER	1	EEDERTYP	Entry point used by RTM1
10	(A)	SIGNED	2	EEDASID	ASID of originating memory in cross memory abends
12	(C)	ADDRESS	4	EEDTCB	Address of the TCB that owns this EED if it was getmained. Only valid if EEDGETM is on.
16	(10)	CHARACTER	4	*	Reserved
20	(14)	CHARACTER	740	EEDVARBL	Variable part of EED, mapped separately below
		REGSPTYP EED-- THIS EED CONTAINS REGISTERS, PSW, AND CROSS MEMORY INFORMATION AT THE TIME OF ERROR ORIGINAL ERROR DATA, AND IF EEDERFL IS ON, IT CONTAINS AN ERRORID AND AN EXIT ROUTINE COMMUNICATION BUFFER.			

Table 770. Structure EED (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	CHARACTER	740	EEDREGSP	This is the basic RTM1 to RTM2 information EED which contains general purpose registers, access registers, control registers PSW, error id and various other error related information
20	(14)	CHARACTER	64	EEDREGS	General purpose Registers at time of error
20	(14)	ADDRESS	4	EEDREG0	Register 0
24	(18)	ADDRESS	4	EEDREG1	Register 1
28	(1C)	ADDRESS	4	EEDREG2	Register 2
32	(20)	ADDRESS	4	EEDREG3	Register 3
36	(24)	ADDRESS	4	EEDREG4	Register 4
40	(28)	ADDRESS	4	EEDREG5	Register 5
44	(2C)	ADDRESS	4	EEDREG6	Register 6
48	(30)	ADDRESS	4	EEDREG7	Register 7
52	(34)	ADDRESS	4	EEDREG8	Register 8
56	(38)	ADDRESS	4	EEDREG9	Register 9
60	(3C)	ADDRESS	4	EEDREG10	Register 10
64	(40)	ADDRESS	4	EEDREG11	Register 11
68	(44)	ADDRESS	4	EEDREG12	Register 12
72	(48)	ADDRESS	4	EEDREG13	Register 13
76	(4C)	ADDRESS	4	EEDREG14	Register 14
80	(50)	ADDRESS	4	EEDREG15	Register 15
84	(54)	CHARACTER	64	EEDAREGS	Access registers at time of error
84	(54)	ADDRESS	4	EEDARE0	Access Register 0
88	(58)	ADDRESS	4	EEDARE1	Access Register 1
92	(5C)	ADDRESS	4	EEDARE2	Access Register 2
96	(60)	ADDRESS	4	EEDARE3	Access Register 3
100	(64)	ADDRESS	4	EEDARE4	Access Register 4
104	(68)	ADDRESS	4	EEDARE5	Access Register 5
108	(6C)	ADDRESS	4	EEDARE6	Access Register 6
112	(70)	ADDRESS	4	EEDARE7	Access Register 7
116	(74)	ADDRESS	4	EEDARE8	Access Register 8
120	(78)	ADDRESS	4	EEDARE9	Access Register 9
124	(7C)	ADDRESS	4	EEDAREA	Access Register 10
128	(80)	ADDRESS	4	EEDAREB	Access Register 11
132	(84)	ADDRESS	4	EEDAREC	Access Register 12
136	(88)	ADDRESS	4	EEDARED	Access Register 13
140	(8C)	ADDRESS	4	EEDAREE	Access Register 14
144	(90)	ADDRESS	4	EEDAREF	Access Register 15
148	(94)	CHARACTER	16	EEDPSW16	PSW,analog of EEDPSW
164	(A4)	CHARACTER	4	EEDHLHI	Copy of SDWAHLHI
168	(A8)	CHARACTER	4	EEDSUPR	Copy of SDWASUPR
172	(AC)	CHARACTER	4	EEDSPN	Copy of SDWASPN
176	(B0)	CHARACTER	4	EEDCLSE	Copy of SDWACLSE
180	(B4)	CHARACTER	32	*	Reserved / available
212	(D4)	CHARACTER	16	EEDPSW	EC mode PSW + ILC int code and translation address
212	(D4)	CHARACTER	8	EEDPSW1	First half of PSW
212	(D4)	SIGNED	4	EEDPSWMK	System and prog mask

Table 770. Structure EED (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
216	(D8)	ADDRESS	4	EEDPSWIC	Instruction counter
220	(DC)	CHARACTER	8	EEDPSW2	Second half of PSW
220	(DC)	SIGNED	4	EEDINILC	Interp code and ILC
220	(DC)	CHARACTER	1	*	Always set to zero
221	(DD)	UNSIGNED	1	EEDILC	Instruction len counter - the number of bytes to subtract from the IC to get last instruction executed
222	(DE)	UNSIGNED	2	EEDINTCD	Interrupt code
224	(E0)	ADDRESS	4	EEDTRANS	Translation exception addr
224	(E0)	BITSTRING	1	EEDTRNS0	Byte 0
225	(E1)	BITSTRING	1	EEDTRNS1	Byte 1
226	(E2)	BITSTRING	1	EEDTRNS2	Byte 2
227	(E3)	BITSTRING	1	EEDTRNS3	Byte 3
		1111 1...		*	
		.... .1..		EEDSOPI	When on for PIC 4, EEDTRANS contains TEA
		11		*	
228	(E4)	CHARACTER	10	EEDERRID	Errorid
228	(E4)	CHARACTER	2	EEDESEQ#	Sequence number
230	(E6)	UNSIGNED	2	EEDECPUI	CPU id
232	(E8)	CHARACTER	2	EEDEASID	ASID
234	(EA)	CHARACTER	4	EEDETIME	Time stamp
238	(EE)	CHARACTER	1	EEDRFLGS	Flags for REGSPTYP EED
		1...		EEDTEAV	If on, indicates EEDTRANS contains valid address
		.1..		EEDTEIV	If on, indicates EEDTRANS contains valid ASID
		..1.		EEDTEPC	If on, indicates EEDTRANS contains valid PC#
		...1 111.		*	Reserved
		1		EEDRELEASECODEVALID	Copy of SdwaReleaseCodeValid
239	(EF)	CHARACTER	1	EEDMISC	Misc RTM1->RTM2 info
		1...		EEDEAS	SDWAEAS was on in RTM1
240	(F0)	ADDRESS	4	EEDLLSR	The linkage stack register value obtained by RTM1 from the last FRR entry processed during RTM1 FRR processing
244	(F4)	CHARACTER	64	EEDDUCT	Contents of the DUCT control area at time of error
308	(134)	UNSIGNED	1	EEDTEAR	Translation exception address access register number
309	(135)	CHARACTER	3	EEDRLCD	Saved copy of SdwaReleaseCode
309	(135)	CHARACTER	3	EEDRELEASECODE	Saved copy of SdwaReleaseCode
312	(138)	CHARACTER	4	*	Reserved
316	(13C)	CHARACTER	4	EEDCODE	Saved copy of Rtm2Code
320	(140)	CHARACTER	4	EEDCRC	Saved copy of Rtm2Crc
324	(144)	CHARACTER	8	EEDBEA	Breaking event address

SDWA error information

Table 770. Structure EED (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
332	(14C)	CHARACTER	28	EEDSDWA	These fields are used for SRB-to-TASK percolation and for FRR to ESTAE (RTM1 to RTM2) percolation.
332	(14C)	CHARACTER	12	EEDFAIN	Saved copy of SDWAFAIN
344	(158)	ADDRESS	4	EEDASCB	Saved copy of SDWAASCB
348	(15C)	ADDRESS	4	EEDASST	Saved copy of SDWAASST
352	(160)	CHARACTER	8	EEDCCRC	Structure for next 2 words
352	(160)	CHARACTER	4	EEDSABC	Saved copy of SDWASABC
352	(160)	CHARACTER	1	EEDOABF	Saved copy of SDWAOABF
		1111 1...		*	Reserved
		.... .1..		EEDORCF	Saved copy of SDWAORCF
		11		*	Reserved
353	(161)	CHARACTER	3	EEDOCMP	Saved copy of SDWAOCMP
356	(164)	CHARACTER	4	EEDOCRC	Saved copy of SDWAOCRC
360	(168)	CHARACTER	8	EEDCOMU	FRR to ESTAE communication buffer (from SDWACOMU)
Hardware repair status information					
368	(170)	CHARACTER	44	EEDHWREP	Hardware repair status information
368	(170)	CHARACTER	28	EEDHWR	Part 1 of EEDHWREP
368	(170)	ADDRESS	4	EEDHSCKB	Starting vrt adr of stor ck
372	(174)	ADDRESS	4	EEDHSCKE	Ending virt addr of stor ck
376	(178)	UNSIGNED	1	EEDHMCHS	RTM1 software status flags
		1...		EEDHSRVL	Storage ranges and RFSA vald
		.1..		EEDHRCDF	MCH rcrd not recorded
		..1.		EEDHTSVL	Time stamp is valid
		...1		EEDINVP	Storage reconfigured page invalidated
		.... 1...		EEDRSRC	Storage reconfiguration status is available
		.... .1..		EEDHRSRF	Storage reconfiguration not not attempted
		.... ..1.		EEDHVRIV	On, indicates vector registers are unpredictable
		1		EEDHARGU	On, indicates access registers are unpredictable
377	(179)	UNSIGNED	1	EEDHMCHD	RTM1 machine check data
		1...		EEDHSKYF	Storage key failure
		.1..		EEDHREGU	Registers unpredictable
		..1.		EEDHPSWU	PSW unpredictable
		...1		EEDHSCK	Storage data chk
		.... 1...		EEDHACR	ACR in progress
		.... .1..		EEDHINSF	Instruction failure
		.... ..1.		EEDHSOFT	Soft error
		1		EEDHTERR	Timer error
378	(17A)	SIGNED	2	EEDHCPID	CPU addr of dead CPU - ACR
380	(17C)	ADDRESS	2	EEDHRSRS	Storage reconfig status bytes
380	(17C)	UNSIGNED	1	EEDHRSR1	Storage reconfig status 1
		11..		*	Reserved
		..1.		EEDHPREF	Preferred frame
		...1		EEDHVRCN	V = R candidate - can go offline

Table 770. Structure EED (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		EEDHNSWP	Long-term non-swappable address space
		.... .1..		EEDHNSWA	Non-swappable address space
		.... ..1.		EEDHMSER	Stor err alredy set in frame
		1		EEDHCHNG	Frame had chang indicator on
381	(17D)	UNSIGNED	1	EEDHRSR2	Storage reconfig status 2
		1...		EEDHOFLN	Frame offlin or sched offlin
		.1..		EEDHINTC	Intercept-frame is scheduled offline, either storage err or V=R ind also on
		..1.		EEDHSPER	Perm err occurs in frame
		...1		EEDHNUCL	Frame contains permanent resident system storage
		.... 1...		EEDHFSQA	Frame in use for SQA
		.... .1..		EEDHFLSQ	Frame in use for LSQA
		.... ..1.		EEDHPGFX	Frame contains PGFIXED data
		1		EEDHVERQ	Frame in use for V = R
382	(17E)	UNSIGNED	1	EEDHMCHO	Other MCH flags
		1...		EEDHSKPR	Skip recording requested by MCH
		.111 1111		*	Reserved
383	(17F)	CHARACTER	1	*	Reserved
384	(180)	ADDRESS	4	EEDHRFSA	Real failing storage addr
388	(184)	CHARACTER	8	EEDHTIME	Timestamp of MCH record
396	(18C)	CHARACTER	16	EEDIOMA	I/O mach check additional data
396	(18C)	CHARACTER	8	EEDHRFSE	ESAME FSA
396	(18C)	ADDRESS	4	EEDHRFSH	ESAME FSA high
400	(190)	ADDRESS	4	EEDHRFSL	ESAME FSA low
404	(194)	CHARACTER	8	EEDMCIC	Machine check interrupt code
412	(19C)	CHARACTER	64	EEDG64H	High order halves of GPRs 0-15 at time of error
476	(1DC)	CHARACTER	4	*	Reserved
480	(1E0)	CHARACTER	128	EEDC64S	ESAME CRs
480	(1E0)	CHARACTER	8	EEDC640	ESAME CR0
488	(1E8)	CHARACTER	8	EEDC641	ESAME CR1
496	(1F0)	CHARACTER	8	EEDC642	ESAME CR2
496	(1F0)	CHARACTER	4	EEDC642H	High half
500	(1F4)	CHARACTER	4	EEDC642L	High half
504	(1F8)	CHARACTER	16	EEDC64_XM	ESAME CR3/CR4
504	(1F8)	CHARACTER	16	EEDXM	ESAME CR3/CR4
504	(1F8)	CHARACTER	8	EEDC643	ESAME CR3
512	(200)	CHARACTER	8	EEDC644	ESAME CR4
520	(208)	CHARACTER	8	EEDC645	ESAME CR5
528	(210)	CHARACTER	8	EEDC646	ESAME CR6
536	(218)	CHARACTER	8	EEDC647	ESAME CR7
544	(220)	CHARACTER	8	EEDC648	ESAME CR8
544	(220)	CHARACTER	4	*	
548	(224)	CHARACTER	2	EEDC648_EAX	EAX
550	(226)	CHARACTER	2	*	
552	(228)	CHARACTER	8	EEDC649	ESAME CR9
560	(230)	CHARACTER	8	EEDC64A	ESAME CRA
568	(238)	CHARACTER	8	EEDC64B	ESAME CRB
576	(240)	CHARACTER	8	EEDC64C	ESAME CRC

Table 770. Structure EED (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
584	(248)	CHARACTER	8	EEDC64D	ESAME CRD
592	(250)	CHARACTER	8	EEDC64E	ESAME CRE
600	(258)	CHARACTER	8	EEDC64F	ESAME CRF
600	(258)	CHARACTER	4	EEDC64FH	High half
604	(25C)	CHARACTER	4	EEDC64FL	Low half
608	(260)	CHARACTER	8	EEDTRNE	8-byte TEA
616	(268)	CHARACTER	64	EEDTXG64H	Time of transaction high
680	(2A8)	CHARACTER	64	EEDTXG64L	Time of transaction regs
744	(2E8)	CHARACTER	16	EEDTXPSW16	Time of transaction PSW
If adding field(s) moves beyond the next 256-byte multiple, update RTMEED (GET) to clear that additional area, recompile all users of RTMEED (GET), and also manually update IEAVTRTM which manipulates the EED piece by piece					
DUMPOTYP EED--DUMP OPTIONS					
20	(14)	CHARACTER	460	EEDDUMPO	The length of this area is dependent on the format of the SNAP parameter list and the SDWA starting at label SDWADUMP
20	(14)	CHARACTER	8	EEDSCDMP	Dump parameters common to the SNAP and SDWA mappings
20	(14)	CHARACTER	4	EEDSDUMP	Dump characteristics
24	(18)	CHARACTER	4	EEDSDDAT	SDATA/PDATA options
24	(18)	BITSTRING	2	EEDSSDAT	Dump system data
26	(1A)	BITSTRING	2	EEDSPDAT	Dump prob prog data
28	(1C)	CHARACTER	240	EEDSDPSL	Dump storage lists
28	(1C)	CHARACTER	8	EEDRGS(30)	30 Ranges
268	(10C)	CHARACTER	16	EEDSPLS	
268	(10C)	SIGNED	2	EEDSPLN	Number of subpools
270	(10E)	CHARACTER	14	EEDSPID	Up to 7 subpool ids
DUMPXTYP EED - Data Space Storage Ranges					
20	(14)	CHARACTER	240	EEDDUMPX	EED for data space storage ranges (up to 15)
20	(14)	CHARACTER	240	EEDDXSL	Data space storage range list
20	(14)	CHARACTER	16	EEDDXSR(15)	Dump storage range
20	(14)	ADDRESS	4	EEDDXBEG	Start address of range
24	(18)	ADDRESS	4	EEDDXEND	End address of range
	1...			EEDDXLE	Bit indicating end of list
28	(1C)	CHARACTER	8	EEDDXSTK	Stoken for range

Table 771. Constants for EED

Len	Type	Value	Name	Description
2	DECIMAL	106	ETAB#ENT	Make constant the number of entries in ETAB. This is used when allocating the cpool of EEDs.
CONSTANTS USED WITH THE EEDID AND TCBRTM12 FIELDS				
4	DECIMAL	1	EEDNULL	THE TCBRTM12 FIELD IS SET TO THIS VALUE IF AN EED COULD NOT BE OBTAINED

Table 771. Constants for EED (continued)

Len	Type	Value	Name	Description
1	DECIMAL	1	ERRORTYP	INDICATES THE EEDVARBL FIELD IS MAPPED BY EEDREGSP
1	DECIMAL	1	REGSPTYP	INDICATES THE EEDVARBL FIELD IS MAPPED BY EEDREGSP
1	DECIMAL	2	DUMPOTYP	INDICATES THE EEDVARBL FIELD IS MAPPED BY EEDDUMPO
1	DECIMAL	3	DUMPXTYP	INDICATES THE EEDVARBL FIELD IS MAPPED BY EEDDUMPX
1	DECIMAL	1	HWREPTYP	INDICATES THE EEDVARBL FIELD IS MAPPED BY EEDREGSP
1	DECIMAL	1	SDWATYP	INDICATES THE EEDVARBL FIELD IS MAPPED BY EEDREGSP
1	DECIMAL	1	ORIGDTYP	INDICATES THE EEDVARBL FIELD IS MAPPED BY EEDREGSP
CONSTANT USED TO DEFINE SIZE OF STANDARD EED AREA				
2	DECIMAL	20	EEDBASE	DEFINES LENGTH OF THE FIXED PORTION OF THE EED
4	DECIMAL	213	EEDSUBP	Subpool for getmained EEDs - fetch-protected DREF private, to be owned by the target task
End of PL/X Source				
4	DECIMAL	304	RT1WFWLN	Size of FRR work area

Table 772. Cross Reference for EED

Name	Offset	Hex Tag
EED	0	
EEDAREA	7C	
EEDAREB	80	
EEDAREC	84	
EEDARED	88	
EEDAREE	8C	
EEDAREF	90	
EEDAREGS	54	
EEDARE0	54	
EEDARE1	58	
EEDARE2	5C	
EEDARE3	60	
EEDARE4	64	
EEDARE5	68	
EEDARE6	6C	
EEDARE7	70	
EEDARE8	74	
EEDARE9	78	
EEDASCB	158	
EEDASID	A	
EEDASST	15C	
EEDBEA	144	
EEDCCRC	160	
EEDCLSE	B0	

Table 772. Cross Reference for EED (continued)

Name	Offset	Hex Tag
EEDCODE	13C	
EEDCOMU	168	
EEDCRC	140	
EEDC64_XM	1F8	
EEDC64A	230	
EEDC64B	238	
EEDC64C	240	
EEDC64D	248	
EEDC64E	250	
EEDC64F	258	
EEDC64FH	258	
EEDC64FL	25C	
EEDC64S	1E0	
EEDC640	1E0	
EEDC641	1E8	
EEDC642	1F0	
EEDC642H	1F0	
EEDC642L	1F4	
EEDC643	1F8	
EEDC644	200	
EEDC645	208	
EEDC646	210	
EEDC647	218	
EEDC648	220	
EEDC648_EAX	224	
EEDC649	228	
EEDDES	4	
EEDDUCT	F4	
EEDDUMPO	14	
EEDDUMPX	14	
EEDDXBEG	14	
EEDDXEND	18	
EEDDXLE	18	80
EEDDXSL	14	
EEDDXSR	14	
EEDDXSTK	1C	
EEDEAS	EF	80
EEDEASID	E8	
EEDECPUI	E6	
EEDERFL	5	80
EEDERRID	E4	
EEDERROR	8	
EEDERTYP	9	
EEDESEQ#	E4	
EEDETIME	EA	
EEDFAIN	14C	
EEDFLAGS	5	
EEDFLAG2	6	
EEDFWRDP	0	

Table 772. Cross Reference for EED (continued)

Name	Offset	Hex Tag
EEDGETM	5	04
EEDG64H	19C	
EEDHACR	179	08
EEDHARGU	178	01
EEDHCHNG	17C	01
EEDHCPID	17A	
EEDHFLSQ	17D	04
EEDHFSQA	17D	08
EEDHINSF	179	04
EEDHINTC	17D	40
EEDHLHI	A4	
EEDHMCHD	179	
EEDHMCHO	17E	
EEDHMCHS	178	
EEDHMSER	17C	02
EEDHNSWA	17C	04
EEDHNSWP	17C	08
EEDHNUCL	17D	10
EEDHOFLN	17D	80
EEDHPGFX	17D	02
EEDHPREF	17C	20
EEDHPSWU	179	20
EEDHRCDF	178	40
EEDHREGU	179	40
EEDHRFSA	180	
EEDHRFSE	18C	
EEDHRFSH	18C	
EEDHRFSL	190	
EEDHRSRF	178	04
EEDHRSRS	17C	
EEDHRSR1	17C	
EEDHRSR2	17D	
EEDHSCK	179	10
EEDHSCKB	170	
EEDHSCKE	174	
EEDHSKPR	17E	80
EEDHSKYF	179	80
EEDHSOFT	179	02
EEDHSPER	17D	20
EEDHSRVL	178	80
EEDHTERR	179	01
EEDHTIME	184	
EEDHTSVL	178	20
EEDHVERQ	17D	01
EEDHVRCN	17C	10
EEDHVRIV	178	02
EEDHWDP	5	10
EEDHWR	170	
EEDHWREP	170	

Table 772. Cross Reference for EED (continued)

Name	Offset	Hex Tag
EEDID	4	
EEDILC	DD	
EEDINILC	DC	
EEDINTCD	DE	
EEDINVP	178	10
EEDIOMA	18C	
EEDLLSR	F0	
EEDMCIC	194	
EEDMISC	EF	
EEDMODE	8	
EEDNODMP	6	40
EEDNOSUP	6	80
EEDNOSVD	6	08
EEDNOSYA	6	04
EEDNOSYM	6	02
EEDNOSYU	6	01
EEDOABF	160	
EEDOCMP	161	
EEDOCRC	164	
EEDORCF	160	04
EEDPSW	D4	
EEDPSWIC	D8	
EEDPSWMK	D4	
EEDPSW1	D4	
EEDPSW16	94	
EEDPSW2	DC	
EEDRCRD	6	20
EEDREGS	14	
EEDREGSP	14	
EEDREG0	14	
EEDREG1	18	
EEDREG10	3C	
EEDREG11	40	
EEDREG12	44	
EEDREG13	48	
EEDREG14	4C	
EEDREG15	50	
EEDREG2	1C	
EEDREG3	20	
EEDREG4	24	
EEDREG5	28	
EEDREG6	2C	
EEDREG7	30	
EEDREG8	34	
EEDREG9	38	
EEDRELEASECODE	135	
EEDRELEASECODEVALID	EE	01
EEDRFLGS	EE	
EEDRGS	1C	

Table 772. Cross Reference for EED (continued)

Name	Offset	Hex Tag
EEDRLCD	135	
EEDRSRC	178	08
EEDSABC	160	
EEDSCDMP	14	
EEDSDDAT	18	
EEDSDPSL	1C	
EEDSDUMP	14	
EEDSDWA	14C	
EEDSKIP	5	08
EEDSOPI	E3	04
EEDSPDAT	1A	
EEDSPI	5	40
EEDSPID	10E	
EEDSPLN	10C	
EEDSPLS	10C	
EEDSPN	AC	
EEDSRBTP	5	20
EEDSSDAT	18	
EEDSUPR	A8	
EEDTCB	C	
EEDTEAR	134	
EEDTEAV	EE	80
EEDTEIV	EE	40
EEDTEPC	EE	20
EEDTRANS	E0	
EEDTRNE	260	
EEDTRNS0	E0	
EEDTRNS1	E1	
EEDTRNS2	E2	
EEDTRNS3	E3	
EEDTXG64H	268	
EEDTXG64L	2A8	
EEDTXPSW16	2E8	
EEDVARBL	14	
EEDXM	1F8	
ETAB	0	
ETABASCB	C	
ETABEED	8	
ETABENTR	8	
ETABID	0	

Chapter 179. EMPARMS Information

EMPARMS Programming Interface Information

EMPARMS is a programming interface.

EMPARMS Heading Information

Common Name:	Dynamic Allocation Error Message Processor Parameter List
Macro ID:	IEFZB476
DSECT Name:	EMPARMS, EMBUFS, EMABUFFS, EMWTDERT
Owning Component:	Allocation (SC1B4)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: Caller's subpool Key: Caller's key Residency: Any
Size:	24 bytes
Created by:	IEFDB400 User program invoking Dynamic Allocation Error Message Routine
Pointed to by:	Passed as a parameter. On entry to IEFDB476, register 1 contains the address of a pointer to it.
Serialization:	None
Function:	Parameter list for the Dynamic Allocation Error Message Processor (IEFDB476).

EMPARMS mapping

Table 773. Structure EMDSECT1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EMDSECT1	Parameter list to IEFDB476
0	(0)	SIGNED	4	(0)	
0	(0)	X'0'	0	EMPARMS	"*" Parameter list to IEFDB476
0	(0)	BITSTRING	1	EMFUNCT	Function indicator flags
		1...		EMPUTLIN	"B'10000000'" ON for message output via PUTLINE
		.1..		EMWTP	"B'01000000'" ON if the caller wants a Write To Programmer (WTO)
		..1.		EMRETURN	"B'00100000'" ON if the caller wants message text returned in buffers
		...1		EMKEEP	"B'00010000'" ON if caller wants to keep message blocks anchored to the SVC 99 RB extension
		.... 1...		EMWTPCDE	"B'00001000'" DESC & ROUTCDE codes are included
1	(1)	BITSTRING	1	EMIDNUM	Caller identifier number
2	(2)	BITSTRING	1	EMNMSGBK	Number of messages to be extracted

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Table 773. Structure EMDSECT1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3	(3)	BITSTRING	1	EMRSV02	Reserved
4	(4)	ADDRESS	4	EMS99RBP	Address of the failing SVC 99 request block for SVC 99 errors
4	(4)	X'4'	0	EMDAPLP	"EMS99RBP" Address of the failing DAIR parameter list for DAIR errors
8	(8)	SIGNED	4	EMRETCOD	The SVC 99 or the DAIR reg 15 return code
12	(C)	ADDRESS	4	EMCPPLP	Address of the CPPL This is needed only when IEFDB476 is called with an SVC 99 error and message output via a PUTLINE is requested
16	(10)	ADDRESS	4	EMBUFP	Address of message buffers if message buffers are to be returned
20	(14)	BITSTRING	4	EMRSV03	Reserved
24	(18)	ADDRESS	4	EMWTPCDP	When EmWtpCde is set, this is the address of the descriptor & route codes mapped by EMWTDERT
24	(18)	X'1C'	0	EMLEN1	"*-EMPARMS"
Map of the descriptor and route codes					
28	(1C)	BITSTRING	18	EMWTDERT(0)	Descriptor & route codes of caller
28	(1C)	BITSTRING	2	EMWTDESC	WTO Descriptor codes
30	(1E)	BITSTRING	16	EMWTRTCD	WTO Routing codes
Map of the return message buffer area					
48	(30)	SIGNED	4	EMBUFS(0)	(Need not initialize)
48	(30)	X'30'	0	EMBUF1	"*" First extract buffer
48	(30)	BITSTRING	2	EMBUFL1	Length of area used in EMBUF1
50	(32)	BITSTRING	2	EMBUFO1	Offset is zero on return
52	(34)	CHARACTER	251	EMBUFT1	Text of first level message
304	(130)	SIGNED	2	EMBUF2(0)	Second extract buffer
304	(130)	BITSTRING	2	EMBUFL2	Length of area used in EMBUF2
306	(132)	BITSTRING	2	EMBUFO2	Offset is zero on return
308	(134)	CHARACTER	251	EMBUFT2	Text of second level message
308	(134)	X'1FF'	0	EMLEN2	"*-EMBUFS" Length of buffer parameters

Table 774. Structure EMDSECT3

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EMDSECT3	
0	(0)	CHARACTER	256	EMABUFFS(0)	
0	(0)	CHARACTER	255	EMABUFF	
0	(0)	BITSTRING	2	EMABUFLN	
2	(2)	BITSTRING	2	EMABUFOF	
4	(4)	CHARACTER	251	EMABUFTX	
255	(FF)	CHARACTER	1		
255	(FF)	X'100'	0	EMLEN3	"*-EMABUFFS" Length of array element

Table 774. Structure EMDSECT3 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Valid Caller Identification Numbers					
255	(FF)	X'32'	0	EMSVC99	"50" General caller with an SVC 99 error
255	(FF)	X'33'	0	EMFREE	"51" Free command with an SVC 99 error
255	(FF)	X'1'	0	EMDAIR	"1" General caller with a DAIR error
255	(FF)	X'63'	0	EMDYNALC	"99" Call is Dynamic Allocation

Table 775. Cross Reference for EMPARMS

Name	Offset	Hex Tag
EMABUFF	0	
EMABUFFS	0	
EMABUFLN	0	
EMABUFOF	2	
EMABUFTX	4	
EMBUFL1	30	
EMBUFL2	130	
EMBUFO1	32	
EMBUFO2	132	
EMBUFP	10	
EMBUFS	30	
EMBUFT1	34	
EMBUFT2	134	
EMBUF1	30	30
EMBUF2	130	
EMCPPLP	C	
EMDAIR	FF	1
EMDAPLP	4	4
EMDSECT1	0	
EMDSECT3	0	
EMDYNALC	FF	63
EMFREE	FF	33
EMFUNCT	0	
EMIDNUM	1	
EMKEEP	0	10
EMLEN1	18	1C
EMLEN2	134	1FF
EMLEN3	FF	100
EMNMSGBK	2	
EMPARMS	0	0
EMPUTLIN	0	80
EMRETCOD	8	
EMRETURN	0	20
EMRSV02	3	
EMRSV03	14	
EMSVC99	FF	32

Table 775. Cross Reference for EMPARMS (continued)

Name	Offset	Hex Tag
EMS99RBP	4	
EMWTDERT	1C	
EMWTDESC	1C	
EMWTP	0	40
EMWTPCDE	0	8
EMWTPCDP	18	
EMWTRTCD	1E	

Chapter 180. ENFCT Information

ENFCT Programming Interface Information

ENFCT is a programming interface.

INCLUDE ONLY

ENFCT Heading Information

Common Name:	Event Notification Facility Control Table
Macro ID:	IEFENFCT
DSECT Name:	ENFCT
Owning Component:	Event Notification Facility (BB131)
Eye-Catcher ID:	ENFC Offset: 0 Length: 4 bytes
Storage Attributes:	Subpool: Nucleus Key: 0 Residency: Below
Size:	88 bytes (decimal)
Created by:	IEFENFDM at SYSGEN
Pointed to by:	CVTENFCT field of CVT data area
Serialization:	None
Function:	Maps the ENF Control Table

ENFCT mapping

Table 776. Structure ENFCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ENFCT	
0	(0)	SIGNED	4	(0)	
0	(0)	CHARACTER	4	ENFCTID	ACRONYM: ENFC
4	(4)	SIGNED	2	ENFCFLGS(0)	FLAG BYTES
4	(4)	BITSTRING	1	ENFCFLG1	FLAG BYTE 1
		1...		ENFCAVAL	"X'80'" ENF INITIALIZED
		.1..		ENFCXAVL	"X'40'" ENF sysplex-wide notification available
		..1.		ENFCFRS3	"X'20'" RESERVED
		...1		ENFCFRS4	"X'10'" RESERVED
		.... 1...		ENFCFRS5	"X'08'" RESERVED
		.... .1..		ENFCFRS6	"X'04'" RESERVED
		.... ..1.		ENFCFRS7	"X'02'" RESERVED
		1		ENFCFRS8	"X'01'" RESERVED
5	(5)	BITSTRING	1	ENFCFLG2	RESERVED
6	(6)	BITSTRING	1	ENFCRSV1	Reserved
7	(7)	BITSTRING	1	ENFCT_NOXSYS_CODE	If ENFCXAVL is off, indicates why sysplex-wide notification is not available

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Table 776. Structure ENFCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	ADDRESS	4	ENFCPMOD	ADDRESS OF IEFENFNM (USED FOR ENF INTERNAL PROCESSING)
12	(C)	ADDRESS	4	ENFCFMOD	"V(IEFENFIN)" ADDRESS OF ENF INTERFACE (IEFENFIN)
16	(10)	ADDRESS	4	ENFCASCB	"V(IEAMASCB)" ADDRESS OF MASTER SCHEDULER ASCB
20	(14)	ADDRESS	4	ENFCVT	ADDRESS OF ENF VECTOR TABLE
24	(18)	ADDRESS	4	ENFCDS	ADDRESS OF ENF PROCESS TABLE
28	(1C)	SIGNED	4	ENFCECB	EVENT NOTIFICATION FACILITY ECB
32	(20)	SIGNED	4	ENFCMAX	MAXIMUM NUMBER OF EVENTS FOR CSECT ONLY
36	(24)	ADDRESS	4	ENFCRMOD	ADDRESS OF ENF SERVICE ROUTINE (IEFENFFX)
40	(28)	ADDRESS	4	ENFCGMOD	"V(IEFENFGX)" IEFENFIN ENTRY POINT FROM EXIT ROUTINES
44	(2C)	ADDRESS	4	ENFCMSGC	ADDRESS OF IEFENFMC MESSAGE CSECT
48	(30)	ADDRESS	4	ENFCRMGR	ADDRESS OF IEFENFRM
52	(34)	ADDRESS	4	ENFCT_SRB_ADDR	ADDRESS OF IEFENFSR
56	(38)	ADDRESS	4	ENFCT_SRB_RMTR	ADDRESS OF IEFENFPD
60	(3C)	ADDRESS	4	ENFCT_ENXV@	Address of ENF's cross-system vector table in the IEFSCHAS address space
64	(40)	BITSTRING	8	ENFCT_XMEM_DATA(0)	Cross-memory environment data
64	(40)	SIGNED	4	ENFCT_XSYS_PC	PC number for cross-system notification routine
68	(44)	SIGNED	4		Reserved
72	(48)	BITSTRING	12	ENFCT_XCF_DATA(0)	XCF group membership data
72	(48)	BITSTRING	8	ENFCT_XSYS_MEM_TOK	ENF's XCF group member token
80	(50)	SIGNED	4	ENFCT_SYS_TOKEN(0)	XCF system token
80	(50)	BITSTRING	1	ENFCT_SYS_SLOT	XCF system slot number
81	(51)	BITSTRING	3		Reserved
84	(54)	SIGNED	4	ENFCENFDSFULLCOUNT	Number of TYPE=ASYNC requests which failed because ENFDS was full
88	(58)	ADDRESS	4	ENFCSIGNALCOUNTSPTR	Address of ENFVT signal counts array
92	(5C)	BITSTRING	4		Reserved

Table 777. Cross Reference for ENFCT

Name	Offset	Hex Tag
ENFCASCB	10	
ENFCAVAL	4	80
ENFCDS	18	
ENFCECB	1C	0
ENFCENFDSFULLCOUNT	54	0
ENFCFLGS	4	
ENFCFLG1	4	0
ENFCFLG2	5	0
ENFCFMOD	C	
ENFCFRS3	4	20

Table 777. Cross Reference for ENFCT (continued)

Name	Offset	Hex Tag
ENFCFRS4	4	10
ENFCFRS5	4	8
ENFCFRS6	4	4
ENFCFRS7	4	2
ENFCFRS8	4	1
ENFCGMOD	28	
ENFCMAX	20	51
ENFCMSGC	2C	
ENFCPMOD	8	
ENFCRMGR	30	
ENFCRMOD	24	
ENFCRSV1	6	0
ENFCSIGNALCOUNTSPTR	58	
ENFCT	0	
ENFCT_ENXV@	3C	
ENFCT_NOXSYS_CODE	7	0
ENFCT_SRB_ADDR	34	
ENFCT_SRB_RMTR	38	
ENFCT_SYS_SLOT	50	0
ENFCT_SYS_TOKEN	50	
ENFCT_XCF_DATA	48	
ENFCT_XMEM_DATA	40	
ENFCT_XSYS_MEM_TOK	48	0
ENFCT_XSYS_PC	40	0
ENFCTID	0	C5D5C6C3
ENFCVT	14	
ENFCXAVL	4	40

Chapter 181. ENFDS Information

ENFDS Heading Information

Common Name:	Event Notification Process Table
Macro ID:	IEFENFDS
DSECT Name:	ENFDS
Owning Component:	Event Notification Facility (BB131)
Eye-Catcher ID:	ENFD Offset: 0 Length: 4
Storage Attributes:	Main Storage: Yes Virtual Storage: Yes Auxiliary Storage: No Subpool: 239 Key: 0 Data Space: No Residency: ANY
Size:	804 bytes (decimal)
Created by:	IEFENFDM
Pointed to by:	ENFCDS field of the ENFCT data area
Serialization:	Entries serialized by compare-and-swap
Function:	Maps the ENF process table, used for ENFREQ requests from locked or disabled callers

ENFDS mapping

Table 778. Structure ENFDS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	804	ENFDS	
0	(0)	CHARACTER	4	ENFDSID	ENFDS CONTROL BLOCK ID
4	(4)	CHARACTER	8	ENFDSENT(100)	ENFDS ENTRY
4	(4)	CHARACTER	4	ENFDFLG	FLAG FIELD
4	(4)	BITSTRING	1	ENFDATT	USE BYTE
		1...		ENFDUSE	REQUEST PENDING FLAG
		.1..		ENFDUPDT	ENTRY IN USE BY IEFENFFX
		..11 1111		*	RESERVED
5	(5)	CHARACTER	3	ENFDRSV1	RESERVED
8	(8)	ADDRESS	4	ENFDEPL	Address of parameter list to process

Table 779. Constants for ENFDS

Len	Type	Value	Name	Description
4	DECIMAL	100	ENFDSMAX	Maximum number of entries in the ENFDS

Table 780. Cross Reference for ENFDS

Name	Offset	Hex Tag
ENFDATT	4	

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Table 780. Cross Reference for ENFDS (continued)

Name	Offset	Hex Tag
ENFDEPL	8	
ENFDFLG	4	
ENFDRSV1	5	
ENFDS	0	
ENFDSENT	4	
ENFDSID	0	
ENFDUPDT	4	40
ENFDUSE	4	80

Chapter 182. ENFLS Information

ENFLS Heading Information

Common Name:	Event Notification Facility Listener Element
Macro ID:	IEFENFLS
DSECT Name:	ENFLS
Owning Component:	Event Notification Facility (BB131)
Eye-Catcher ID:	ENFL Offset: 0 Length: 4 BYTES
Storage Attributes:	Subpool: 228 for ENF-63, 241 for all other ENF codes Key: 0 Residency: Any
Size:	144 bytes (decimal)
Created by:	IEFENFNM
Pointed to by:	ENFVPTR(EVENT CODE) of ENFVT data area points to the first element ENFVLPTR(EVENT CODE) of ENFVT data area points to the last element ENFLNPTR field of the ENFLS data area ENFLPPTR field of the ENFLS data area
Serialization:	ENFLUSE is used by compare and swap to serialize the use of this element.
Function:	Maps the ENF Listener Element

ENFLS mapping

Table 781. Structure ENFLS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	144	ENFLS	
0	(0)	CHARACTER	4	ENFLSID	ENFLS HEADER
4	(4)	BITSTRING	1	ENFLFLGS	FLAGS FIELD
		1...		ENFLERR	ENFLS NOT USABLE
		.1..		ENFLDIS	Disable ENFLS if error
		..1.		ENFL_EOT	End of task requested
		...1		ENFL_EOM	End of memory requested
		.... 1...		ENFL_EXIT_TYPE	Exit type. OFF indicates that the user specified EXIT. ON indicates that the user specified SRBEXIT
		.... .1..		ENFLXSYS	If set, listener accepts notifications originating on other systems
		.... ..1.		ENFL_FLTR	If set, listener specified a FLTRBLK
		1		*	RESERVED
5	(5)	CHARACTER	1	ENFLQMSK	QUALIFIER MASK
6	(6)	BITSTRING	1	ENFLFLG2	Second flag field

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Table 781. Structure ENFLS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		111.		ENFLBCMP	Bit comparison to be used in evaluating bit-mapped qualifier. Bit patterns defined in IEFENFPM.
		...1 11..		*	Reserved
		.... ..1.		ENFLENFSETENFLENME	EnflENme was set by ENF, not provided by the listener
		1		ENFLENFSETENFLXNME	EnflXNme was set by ENF, not provided by the listener
7	(7)	CHARACTER	1	ENFLRSV1	Reserved
8	(8)	CHARACTER	4	ENFLQUAL	QUALIFIER
12	(C)	ADDRESS	4	ENFLRTN	EXIT ROUTINE TO GET CONTROL
		1...		ENFLRTM	AMODE OF EXIT ROUTINE
12	(C)	BITSTRING	3	ENFLRTA	ADDRESS OF EXIT ROUTINE
16	(10)	CHARACTER	8	ENFLTOKNUSE	For CDS
16	(10)	SIGNED	4	ENFLTOKN	TOKEN FOR THIS ENFLS
20	(14)	SIGNED	4	ENFLUSE	USE COUNT
		1...		ENFLDEL	ENFLS AVAILABLE FOR REUSE
24	(18)	ADDRESS	4	ENFLNPTR	ADDRESS OF NEXT ENFLS
28	(1C)	ADDRESS	4	ENFLPPTR	ADDRESS OF PREVIOUS ENFLS
32	(20)	ADDRESS	4	ENFLR14	RETURN ADDRESS OF ESTABLISHER OF LISTEN EXIT.
36	(24)	CHARACTER	8	ENFLENME	NAME OF ESTABLISHER OF LISTEN EXIT.
44	(2C)	CHARACTER	8	ENFLXNME	NAME OF LISTEN EXIT
52	(34)	ADDRESS	4	ENFLPARM	Address of listener's parameters
56	(38)	ADDRESS	4	ENFL_ASCB	Address of listener's ASCB
60	(3C)	ADDRESS	4	ENFL_TCB	Address of listener's TCB
64	(40)	SIGNED	2	ENFL_ASID	Listener's ASID
66	(42)	CHARACTER	8	ENFLJNME	Jobname of Listen Exit
74	(4A)	CHARACTER	32	ENFLBMQ	Bit-mapped qualifier
106	(6A)	CHARACTER	2	*	Reserved
108	(6C)	CHARACTER	4	ENFL_SRBEXIT_CPID	Cell pool id for IEFENFSR
112	(70)	CHARACTER	4	*	Reserved
116	(74)	CHARACTER	8	ENFL_STOKEN	STOKEN of the listener's address space (SRB mode listeners)
124	(7C)	CHARACTER	12	ENFL_RMTR	This area of the ENFL contains the resource manager code (RMTR) for the SRB. This allows us to purge the SRB associated with the ENF Listener Element only.
124	(7C)	CHARACTER	4	ENFL_RMTR_L	This field contains an instruction which loads the address of the real RMTR. (L 15,*+8(15))
128	(80)	CHARACTER	2	ENFL_RMTR_BR	This field contains an instruction which branches to the real RMTR. (BR 15)
130	(82)	CHARACTER	2	ENFL_RMTR_NOP	This field contains an instruction which aligns the next full word. (NOP)
132	(84)	ADDRESS	4	ENFL_RMTR_ADDR	This field contains the address of the real RMTR (IEFENFPD).

Table 781. Structure ENFLS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
136	(88)	CHARACTER	8	ENFL_SDATA	This field contains the signaller data associated with FLTRBLK support.

Table 782. Cross Reference for ENFLS

Name	Offset	Hex Tag
ENFL_ASCB	38	
ENFL_ASID	40	
ENFL_EOM	4	10
ENFL_EOT	4	20
ENFL_EXIT_TYPE	4	08
ENFL_FLTR	4	02
ENFL_RMTR	7C	
ENFL_RMTR_ADDR	84	
ENFL_RMTR_BR	80	
ENFL_RMTR_L	7C	
ENFL_RMTR_NOP	82	
ENFL_SDATA	88	
ENFL_SRBEXIT_CPID	6C	
ENFL_STOKEN	74	
ENFL_TCB	3C	
ENFLBCMP	6	E0
ENFLBMQ	4A	
ENFLDEL	14	80
ENFLDIS	4	40
ENFLENFSETENFLENME	6	02
ENFLENFSETENFLXNME	6	01
ENFLENME	24	
ENFLERR	4	80
ENFLFLGS	4	
ENFLFLG2	6	
ENFLJNME	42	
ENFLNPTR	18	
ENFLPARM	34	
ENFLPPTR	1C	
ENFLQMSK	5	
ENFLQUAL	8	
ENFLRSV1	7	
ENFLRTA	C	
ENFLRTM	C	80
ENFLRTN	C	
ENFLR14	20	
ENFLS	0	
ENFLSID	0	
ENFLTOKN	10	
ENFLTOKNUSE	10	
ENFLUSE	14	
ENFLXNME	2C	

Table 782. Cross Reference for ENFLS (continued)

Name	Offset	Hex Tag
ENFLXSYS	4	04

Chapter 183. ENFPM Information

ENFPM Programming Interface Information

ENFPM is a programming interface.

INCLUDE ONLY

ENFPM Heading Information

Common Name:	Event Notification Facility Parameter List
Macro ID:	IEFENFPM
DSECT Name:	ENFPM
Owning Component:	Event Notification Facility (BB131)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: Any Key: Any Residency: Any
Size:	Maximum 128 bytes (decimal)
Created by:	ENF users
Pointed to by:	N/A
Serialization:	None
Function:	Maps the ENFREQ parameter list

ENFPM mapping

Table 783. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	SIGNED	4	ENFPM(0)	
0	(0)	SIGNED	2	ENFPLEN	LENGTH OF ENF PARAMETER LIST
2	(2)	SIGNED	2	ENFPACT(0)	REQUESTED ENF ACTION
2	(2)	CHARACTER	1	ENFPACT1	RESERVED
3	(3)	CHARACTER	1	ENFPACT2	DEFINITION BYTE
		1		ENFPSIG	"X'01'" SIGNAL AN EVENT
		.... ..1.		ENFPLIS	"X'02'" LISTEN FOR AN EVENT
		11		ENFPDEL	"X'03'" DELETE A LISTENER
		.... .1..		ENFPQRY	"X'04'" QUERY FOR INFORMATION
		.... .1.1		ENFPRGR	"X'05'" REGISTER FOR INFORMATION
4	(4)	BITSTRING	4	ENFPCODE	EVENT CODE (RIGHT JUSTIFIED)
4	(4)	X'1'	0	ENFPC001	"1" VARY DEVICE ONLINE
4	(4)	X'2'	0	ENFPC002	"2" VARY DEVICE OFFLINE
4	(4)	X'3'	0	ENFPC003	"3" VOLUME UNLOAD
4	(4)	X'4'	0	ENFPC004	"4" FREE SQA
4	(4)	X'5'	0	ENFPC005	"5" COMM TASK AND TOD INIT COMPLETE
4	(4)	X'6'	0	ENFPC006	"6" SRM - STATUS CHANGE IN CHANNEL MEASURMENT BLOCK DATA COLLECTOR
4	(4)	X'7'	0	ENFPC007	"7" RESERVED

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Table 783. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'8'	0	ENFPC008	"8" PATH STATE CHANGE
4	(4)	X'9'	0	ENFPC009	"9" CHANNEL PATH STATE CHANGE
4	(4)	X'A'	0	ENFPC010	"10" DDR SWAP
4	(4)	X'B'	0	ENFPC011	"11" FAILURE OF CHANNEL MONITORING FACILITY
4	(4)	X'C'	0	ENFPC012	"12" DEVICE PENDING OFFLINE
4	(4)	X'D'	0	ENFPC013	"13" WTO BUFFER UTILIZATION
4	(4)	X'E'	0	ENFPC014	"14" JES3 BUFFER UTILIZATION
4	(4)	X'F'	0	ENFPC015	"15" STORAGE MANAGEMENT SUBSYSTEM RESOURCE AVAILABILITY CHANGE
4	(4)	X'10'	0	ENFPC016	"16" VOLUME BECOMING AVAILABLE
4	(4)	X'11'	0	ENFPC017	"17" CONSOLE OR TSO OPERATOR HAS CHANGED FROM THE ACTIVE TO INACTIVE STATE
4	(4)	X'12'	0	ENFPC018	"18" RECONFIGURATION ISSUED TO NOTIFY Crypto WHEN A CPU COMES ONLINE OR GOES OFFLINE.
4	(4)	X'13'	0	ENFPC019	"19" SIGNALS CRYPTOGRAPHY FEATURE AVAILABLE
4	(4)	X'14'	0	ENFPC020	"20" UNSOLICITED SIGNAL INTERRUPT
4	(4)	X'15'	0	ENFPC021	"21" CHANGE TO DASD MIH INTERVAL
4	(4)	X'16'	0	ENFPC022	"22" SIGNALS CRYPTOGRAPHY FEATURE OFFLINE
4	(4)	X'17'	0	ENFPC023	"23" VARY DEVICE ONLINE (DYNAMIC I/O)
4	(4)	X'18'	0	ENFPC024	"24" VARY DEVICE OFFLINE (DYNAMIC I/O)
4	(4)	X'19'	0	ENFPC025	"25" VOLUME UNLOAD (DYANMIC I/O)
4	(4)	X'1A'	0	ENFPC026	"26" CHANGE IN DEVICE STATE (DYNAMIC I/O)
4	(4)	X'1B'	0	ENFPC027	"27" PATH STATE CHANGE (DYNAMIC I/O)
4	(4)	X'1C'	0	ENFPC028	"28" DDR SWAP (DYNAMIC I/O)
4	(4)	X'1D'	0	ENFPC029	"29" DEVICE PENDING OFFLINE (DYNAMIC I/O)
4	(4)	X'1E'	0	ENFPC030	"30" VOLUME BECOMING AVAILABLE (DYNAMIC I/O)
4	(4)	X'1F'	0	ENFPC031	"31" SYNCHRONOUS SIGNAL TO PROCESS CONFIGURATION CHANGE BLOCK (DYNAMIC I/O)
4	(4)	X'20'	0	ENFPC032	"32" SYNCHRONOUS SIGNAL TO INDICATE CONFIGURATION CHANGE IS COMPLETE (DYNAMIC I/O)
4	(4)	X'21'	0	ENFPC033	"33" DEVICE STATE CHANGE
4	(4)	X'22'	0	ENFPC034	"34" MACHINE CHECK DUE TO SCLP DAMAGE
4	(4)	X'23'	0	ENFPC035	"35" Cross system locking services
4	(4)	X'24'	0	ENFPC036	"36" Symptom string written to a LOGREC data set or LOGREC log stream
4	(4)	X'25'	0	ENFPC037	"37" SMF INTERVAL SYNC SUPPORT

Table 783. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'26'	0	ENFPC038	"38" An ARM Event Occurred
4	(4)	X'27'	0	ENFPC039	"39" Reserved
4	(4)	X'28'	0	ENFPC040	"40" JES initiation or termination
4	(4)	X'29'	0	ENFPC041	"41" A WLM Event Occurred
4	(4)	X'2A'	0	ENFPC042	"42" A SRM Event Occurred
4	(4)	X'2B'	0	ENFPC043	"43" New sampling data is available
4	(4)	X'2C'	0	ENFPC044	"44" Subchannel CRW is received
4	(4)	X'2D'	0	ENFPC045	"45" SMSVSAM server is operational
4	(4)	X'2E'	0	ENFPC046	"46" A significant OMVS event has occurred
4	(4)	X'2F'	0	ENFPC047	"47" DAE dumping threshold met for a given incident in the last detection interval
4	(4)	X'30'	0	ENFPC048	"48" A system logger event has occurred
4	(4)	X'31'	0	ENFPC049	"49" Logrec output recording medium was changed via SETLOGRC command
4	(4)	X'32'	0	ENFPC050	"50" Parallel access volume capacity state change
4	(4)	X'33'	0	ENFPC051	"51" A GRS event has occurred
4	(4)	X'34'	0	ENFPC052	"52" LNKLST activation
4	(4)	X'35'	0	ENFPC053	"53" External time reference state change
4	(4)	X'36'	0	ENFPC054	"54" An SDUMP event has occurred
4	(4)	X'37'	0	ENFPC055	"55" An SRM event has occurred
4	(4)	X'38'	0	ENFPC056	"56" Issued during RESET job and QUIESCE job commands to tell JES about service class changes for batch jobs in execution
4	(4)	X'39'	0	ENFPC057	"57" Issued by WLM when a WLM known abstract resource changes state
4	(4)	X'3A'	0	ENFPC058	"58" Issued by JES when a sysout data set changes state
4	(4)	X'3B'	0	ENFPC059	"59" Issued by BOSS for synchronizing the sysplex wide view of the Active Server Respository
4	(4)	X'3C'	0	ENFPC060	"60" Issued by Transaction Trace
4	(4)	X'3D'	0	ENFPC061	"61" Issued by WLM
4	(4)	X'3E'	0	ENFPC062	"62" Issued by RACF
4	(4)	X'3F'	0	ENFPC063	"63" Issued by IOS
4	(4)	X'40'	0	ENFPC064	"64" Issued by GDPS
4	(4)	X'41'	0	ENFPC065	"65" Issued by AXR
4	(4)	X'42'	0	ENFPC066	"66" Issued by CEA
4	(4)	X'43'	0	ENFPC067	"67" Issued by Health Checker
4	(4)	X'44'	0	ENFPC068	"68" Issued by BCPii
4	(4)	X'45'	0	ENFPC069	"69" Issued by DB2 Offload
4	(4)	X'46'	0	ENFPC070	"70" JES2 job state change
4	(4)	X'47'	0	ENFPC071	"71" Issued by RACF

Table 783. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'48'	0	ENFPC072	"72" Issued by HSM
4	(4)	X'49'	0	ENFPC073	"73" System symbols have been updated
4	(4)	X'4A'	0	ENFPC074	"74" For testing. SRBEXIT and EXIT. Supports cross system notification.
4	(4)	X'4B'	0	ENFPC075	"75" For testing. SRBEXIT and EXIT. Supports cross system notification. Uses a FLTRBLK exit.
4	(4)	X'4C'	0	ENFPC076	"76" For testing. SRBEXIT only.
4	(4)	X'4D'	0	ENFPC077	"77" For testing. EXIT only.
4	(4)	X'4E'	0	ENFPC078	"78" JES2 CEAS notify funtion
4	(4)	X'4F'	0	ENFPC079	"79" Issued by RACF
4	(4)	X'50'	0	ENFPC080	"80" Issued by CommServer
4	(4)	X'51'	0	ENFPC081	"81" Issued by RDZ ******
4	(4)	X'51'	0	ENFPCMAX	"81" High Water Mark, Maximum Number of Events ******
8	(8)	BITSTRING	1	ENFPFLG	FLAG FIELD
		1...		ENFPASN	"X'80'" ASYNCHRONOUS REQUEST
		.1..		ENFPDISA	"X'40'" Disable keyword
		..1.		ENFPDISO	"X'20'" Disable keyword operational
		...1		ENFPXSYS	"X'10'" Signal request - set if signal is to be sent to other systems. Listen request - set if listener will accept signals from foreign systems.
		.... 1...		ENFPFREE	"X'08'" FREE SIGNAL PARAMETER LIST
		.... .1..		ENFPEOT	"X'04'" EOT support requested
		.... ..1.		ENFPEOM	"X'02'" EOM support requested
		1		ENFPSRBE	"X'01'" SRBEXIT specified
9	(9)	BITSTRING	1	ENFPQMSK	MASK FOR COMPARING QUALIFIERS
		.... 1...		ENFPQMS1	"X'08'" COMPARE CHARACTER 1
		.... .1..		ENFPQMS2	"X'04'" COMPARE CHARACTER 2
		.... ..1.		ENFPQMS3	"X'02'" COMPARE CHARACTER 3
		1		ENFPQMS4	"X'01'" COMPARE CHARACTER 4
10	(A)	SIGNED	2	ENFPFATT(0)	FREEMAIN ATTRIBUTES
10	(A)	BITSTRING	1	ENFPFKEY	KEY FOR FREEMAIN AREA
11	(B)	BITSTRING	1	ENFPFSPL	SUBPOOL FOR FREEMAIN AREA
12	(C)	BITSTRING	4	ENFPQUAL	QUALIFIER
16	(10)	SIGNED	4	ENFPEADR	LISTEN: LISTENER'S EXIT ROUTINE ADDR If ENFPSRBE is on then the listen exit will run in the listener's address space as SRB. SIGNAL: SIGNALER'S EXIT ROUTINE ADDR
20	(14)	SIGNED	4	ENFPSPRM	ADDRESS OF SIGNALER'S or listener's parameters

Table 783. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	SIGNED	4	ENFPTOK	LISTEN: TOKEN OF LISTENER'S ELEMENT SIGNAL: ADDRESS OF ORIGINAL EPL
28	(1C)	SIGNED	4	ENFPFLEN	LENGTH OF AREA TO BE FREED
32	(20)	SIGNED	2	ENFPVERS	PARAMETER LIST VERSION
34	(22)	SIGNED	2	ENFPHASN	HASN of caller of ENF
36	(24)	ADDRESS	4	ENFPR14C	ADDRESS OF CALLER OF ENF
40	(28)	CHARACTER	8	ENFPLNME	NAME OF ESTABLISHER OF LISTEN EXIT
48	(30)	CHARACTER	8	ENFPXNME	NAME OF LISTEN EXIT ROUTINE
56	(38)	SIGNED	4	ENFPLSNM	LISTENER COUNT (RETURNED) ONLY FOR SYNCHRONOUS REQUESTS
60	(3C)	CHARACTER	4	ENFPCRET	SPECIAL PROCESSING CODE RETURNED FROM EXIT
64	(40)	BITSTRING	32	ENFPBMQ	Bit-mapped qualifier
96	(60)	BITSTRING	1	ENFPFLG2	Additional flags
		...1 1111		ENFPBQMK	"B'00011111'" Value to AND into ENFPFLG2 to clear the high-order 3 bits that represent the comparison to be performed on the bit- mapped qualifier
		....		ENFPBQSB	"B'00000000'" Value to OR into ENFPFLG2 to indicate BITCOMPARE=SUBSET
		..1.		ENFPBQIN	"B'00100000'" Value to OR into ENFPFLG2 to indicate BITCOMPARE=INTERSECT
		.1..		ENFPBQEQ	"B'01000000'" Value to OR into ENFPFLG2 to indicate BITCOMPARE=EQUAL
		...1		ENFPMASE	"B'00010000'" MASEXIT support requested
		.... 1...		ENFPFTCH	"B'00001000'" IBM inrnl use
97	(61)	CHARACTER	3		Reserved
100	(64)	SIGNED	4	ENFPFLTR	Address of the FLTRBLK or the FLTRXIT, for ACTION of LISTEN or REGISTER respectively.
100	(64)	X'68'	0	ENFPLLEN	"*-ENFPM" ASSEMBLER LENGTH OF PARAMETER LIST
100	(64)	X'3'	0	ENFPVRSN	"3" Version 3
100	(64)	X'68'	0	ENFPXCFG	"*,8,C'C'" EQUATE for DSECT=YES

Important note: Prior to expanding the parameter list, refer to "Cautionary notes", in IEFENFRP.

Table 784. Cross Reference for ENFPM

Name	Offset	Hex Tag
ENFPACT	2	
ENFPACT1	2	
ENFPACT2	3	
ENFPASN	8	80
ENFPBMQ	40	

Table 784. Cross Reference for ENFPM (continued)

Name	Offset	Hex Tag
ENFPBQEQ	60	40
ENFPBQIN	60	20
ENFPBQMK	60	1F
ENFPBQSB	60	0
ENFPCMAX	4	51
ENFPCODE	4	
ENFPCRET	3C	
ENFPC001	4	1
ENFPC002	4	2
ENFPC003	4	3
ENFPC004	4	4
ENFPC005	4	5
ENFPC006	4	6
ENFPC007	4	7
ENFPC008	4	8
ENFPC009	4	9
ENFPC010	4	A
ENFPC011	4	B
ENFPC012	4	C
ENFPC013	4	D
ENFPC014	4	E
ENFPC015	4	F
ENFPC016	4	10
ENFPC017	4	11
ENFPC018	4	12
ENFPC019	4	13
ENFPC020	4	14
ENFPC021	4	15
ENFPC022	4	16
ENFPC023	4	17
ENFPC024	4	18
ENFPC025	4	19
ENFPC026	4	1A
ENFPC027	4	1B
ENFPC028	4	1C
ENFPC029	4	1D
ENFPC030	4	1E
ENFPC031	4	1F
ENFPC032	4	20
ENFPC033	4	21
ENFPC034	4	22
ENFPC035	4	23
ENFPC036	4	24
ENFPC037	4	25
ENFPC038	4	26
ENFPC039	4	27
ENFPC040	4	28
ENFPC041	4	29
ENFPC042	4	2A

Table 784. Cross Reference for ENFPM (continued)

Name	Offset	Hex Tag
ENFPC043	4	2B
ENFPC044	4	2C
ENFPC045	4	2D
ENFPC046	4	2E
ENFPC047	4	2F
ENFPC048	4	30
ENFPC049	4	31
ENFPC050	4	32
ENFPC051	4	33
ENFPC052	4	34
ENFPC053	4	35
ENFPC054	4	36
ENFPC055	4	37
ENFPC056	4	38
ENFPC057	4	39
ENFPC058	4	3A
ENFPC059	4	3B
ENFPC060	4	3C
ENFPC061	4	3D
ENFPC062	4	3E
ENFPC063	4	3F
ENFPC064	4	40
ENFPC065	4	41
ENFPC066	4	42
ENFPC067	4	43
ENFPC068	4	44
ENFPC069	4	45
ENFPC070	4	46
ENFPC071	4	47
ENFPC072	4	48
ENFPC073	4	49
ENFPC074	4	4A
ENFPC075	4	4B
ENFPC076	4	4C
ENFPC077	4	4D
ENFPC078	4	4E
ENFPC079	4	4F
ENFPC080	4	50
ENFPC081	4	51
ENFPDEL	3	3
ENFPDISA	8	40
ENFPDISO	8	20
ENFPEADR	10	
ENFPEOM	8	2
ENFPEOT	8	4
ENFPFATT	A	
ENFPFKEY	A	
ENFPFLEN	1C	
ENFPFLG	8	

Table 784. Cross Reference for ENFPM (continued)

Name	Offset	Hex Tag
ENFPFLG2	60	
ENFPFLTR	64	
ENFPFREE	8	8
ENFPFSPL	B	
ENFPFTCH	60	8
ENFPHASN	22	
ENFPLEN	0	
ENFPLIS	3	2
ENFPLLEN	64	68
ENFPLNME	28	
ENFPLSNM	38	
ENFPM	0	
ENFPMASE	60	10
ENFPQMSK	9	
ENFPQMS1	9	8
ENFPQMS2	9	4
ENFPQMS3	9	2
ENFPQMS4	9	1
ENFPQRY	3	4
ENFPQUAL	C	
ENFPRGR	3	5
ENFPR14C	24	
ENFPSIG	3	1
ENFPSPRM	14	
ENFPSRBE	8	1
ENFPTOK	18	
ENFPVERS	20	
ENFPVRSN	64	3
ENFPXCFG	64	68
ENFPXNME	30	
ENFPXSYS	8	10

Chapter 184. ENFVT Information

ENFVT Heading Information

Common Name:	Event Notification Facility Vector Table
Macro ID:	IEFENFVT
DSECT Name:	ENFVT
Owning Component:	Event Notification Facility (BB131)
Eye-Catcher ID:	ENFV Offset: 0 Length: 4 bytes
Storage Attributes:	Subpool: 239 Key: 0 Residency: Any
Size:	4 + (28 x ENFCMAX) bytes
Created by:	IEAVNP47
Pointed to by:	ENFCVT field of the ENFCT data area.
Serialization:	ENFVPTR - serialized by the LOCAL and CMS locks ENFVLPTR - serialized by the LOCAL and CMS locks. ENFVDTKN - serialized using compare and swap. EnfvtSignalCounts - serialized using compare and swap.
Function:	Maps the ENF Vector Table.

ENFVT mapping

Table 785. Structure ENFVT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	ENFVT	
0	(0)	CHARACTER	4	ENFVTID	ENFVT control block id
4	(4)	CHARACTER	20	ENFVTENT(*)	ENFVT entry
4	(4)	ADDRESS	4	ENFVXITA	Address of signal pre-processing exit routine
8	(8)	ADDRESS	4	ENFVPTR	Pointer to first ENFLS on the queue for the event
12	(C)	ADDRESS	4	ENFVLPTR	Pointer to last ENFLS on the queue for the event
16	(10)	SIGNED	4	ENFVDTKN	DTOKEN field for each event
20	(14)	BITSTRING	1	ENFVT_FLAGS	Event code flags. Initialized by IEAVNP47.
		1...		ENFVT_SRB_EXIT	This event allows SRBEXIT on a Listen request
		.1..		ENFVT_EXIT	This event allows EXIT on a Listen request
		..1.		ENFVT_XSYS_CAPABLE	This event supports cross-system notification
		...1		ENFVT_PREPROC	This event supports pre-processing via the ENVXITA field.
		.... 1...		ENFVT_FLTRBLK	This event supports FLTRBLK via the ENVXITA field.
		.... .111		ENFVT_RSV1	Reserved

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Table 785. Structure ENFVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
21	(15)	UNSIGNED	3	ENFVT_RSV2	Reserved

Table 786. Structure ENFVTSIGNALCOUNTS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	12	ENFVTSIGNALCOUNTS	Signal counts
0	(0)	UNSIGNED	4	ENFVTSIGNALCOUNTSYNC	Number of TYPE=SYNC signals for the event
4	(4)	UNSIGNED	4	ENFVTSIGNALCOUNTASYNC	Number of TYPE=ASYNC signals for the event
8	(8)	UNSIGNED	4	ENFVTSIGNALCOUNTFOREIGN	Number of foreign signals for the event

Table 787. Cross Reference for ENFVT

Name	Offset	Hex Tag
ENFVDTKN	10	
ENFVLPTR	C	
ENFVPTR	8	
ENFVT	0	
ENFVT_EXIT	14	40
ENFVT_FLAGS	14	
ENFVT_FLTRBLK	14	08
ENFVT_PREPROC	14	10
ENFVT_RSV1	14	07
ENFVT_RSV2	15	
ENFVT_SRB_EXIT	14	80
ENFVT_XSYS_CAPABLE	14	20
ENFVTENT	4	
ENFVTID	0	
ENFVTSIGNALCOUNTASYNC	4	
ENFVTSIGNALCOUNTFOREIGN	8	
ENFVTSIGNALCOUNTS	0	
ENFVTSIGNALCOUNTSYNC	0	
ENFVXITA	4	

Chapter 185. ENV Information

ENV Heading Information

Common Name:	Machine Check Handler Environment Data Area
Macro ID:	IGFENV
DSECT Name:	ENV
Owning Component:	Machine Check Handler (BB1CT)
Eye-Catcher ID:	ENV Offset: 0 Length: 4
Storage Attributes:	Subpool: 239 Key: 0 Residency: Above 16M
Size:	248 bytes
Created by:	IGFPBUCR
Pointed to by:	PWAENV
Serialization:	MCH is disabled for all interrupts, except machine checks. There is one ENV for each processor.
Function:	Contain the information needed by IGFPEXIT to complete machine check processing. For every machine check, MCH must decide whether the interrupted unit of work can receive control at the next sequential instruction or its recovery routine should be invoked. This decision is made by IGFPMRTH, who fills in the registers and builds a PSW that will be subsequently loaded by IGFPEXIT. For the nsi case, the appropriate registers plus a copy of the machine check old PSW are used. For the ESTAE/FRR case, the registers and the PSW will cause IGFPEXIT to pass control to RTM, who will eventually invoke the ESTAE/FRR.

ENV mapping

Table 788. Structure ENV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	248	ENV	IGFPEXIT INPUT
0	(0)	CHARACTER	4	ENVID	= 'ENV '
4	(4)	CHARACTER	1	ENVCTRL	CONTROL BITS USED AS INTERNAL INDICATERS
		1...		ENVSFT	SOFT MCH CHECK PROCESSING
		.111 1111		*	RESERVED
5	(5)	CHARACTER	3	*	
8	(8)	CHARACTER	64	ENVGREGS	THE 16 GENERAL PURPOSE REGS. THESE REGISTERS ARE LOADED AT THE END OF IGFPEXIT PROCESSING.
8	(8)	ADDRESS	4	ENVGREG(0:15)	THE SUBSCRIPT IS EQUIVALENT TO THE REGISTER NUMBER.
72	(48)	CHARACTER	64	ENVAREGS	THE ACCESS REGISTERS. THESE REGISTERS ARE LOADED AT THE END OF IGFPEXIT PROCESSING.

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Table 788. Structure ENV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
72	(48)	ADDRESS	4	ENVAREG(0:15)	THE SUBSCRIPT IS EQUIVALENT TO THE REGISTER NUMBER.
136	(88)	CHARACTER	8	*	Reserved
144	(90)	CHARACTER	64	ENVG64H	HIGH HALVES OF GPRS
208	(D0)	CHARACTER	8	ENVPSW	This is now used only for temp storage. See ENVPSW16
216	(D8)	CHARACTER	16	ENVXM	CONTROL REGISTER(3,4). THESE TWO CONTROL REGISTERS ARE USED BY THE CMSET RESET THAT IS ISSUED AT THE END OF IGFPEXIT PROCESSING.
216	(D8)	CHARACTER	8	ENVXMCR3	CONTROL REGISTER(3).
224	(E0)	CHARACTER	8	ENVXMCR4	CONTROL REGISTER(4).
232	(E8)	CHARACTER	16	ENVPSW16	PSWE loaded at the end of IGFPEXIT processing
248	(F8)	CHARACTER	0	*	

Table 789. Cross Reference for ENV

Name	Offset	Hex Tag
ENV	0	
ENVAREG	48	
ENVAREGS	48	
ENVCTRL	4	
ENVGREG	8	
ENVGREGS	8	
ENVG64H	90	
ENVID	0	
ENVPSW	D0	
ENVPSW16	E8	
ENVSFT	4	80
ENVXM	D8	
ENVXMCR3	D8	
ENVXMCR4	E0	

Chapter 186. EPAL Information

EPAL Programming Interface Information

EPAL is a programming interface.

EPAL Heading Information

Common Name:	External Parameter Area, SWA Manager Locate Mode
Macro ID:	IEFZB505
DSECT Name:	ZB505
Owning Component:	Scheduler Work Area Manager (SC1B5)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: Any Key: Any
Size:	For assigns, reads, writes, or deletes (standard): 16 bytes For locate/all (extended): 28 bytes
Created by:	Routines that invoke the SWA manager
Pointed to by:	The caller's parameter list
Serialization:	None
Function:	Contains the virtual address of the SWA storage in which a SWA control block resides.

EPAL mapping

Table 790. Structure ZB505

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ZB505	
0	(0)	CHARACTER	16	SWAEPA(0)	MAPPING OF STANDARD EPA
0	(0)	SIGNED	4	SWBLKPTR	POINTER TO BLOCK
4	(4)	SIGNED	4	SWVAFW(0)	4 BYTE SWA VIRTUAL ADDRESS
4	(4)	CHARACTER	3	SWVA	3 BYTE SWA VIRTUAL ADDRESS
7	(7)	CHARACTER	1	SWBLKID	BLOCK ID OR ZERO
8	(8)	SIGNED	4	SWLNGTH	LENGTH OF SWA BLOCK (NOT INCLUDING SWA PREFIX)
12	(C)	SIGNED	4	SWCHNPTR	CHAIN POINTER OR ZERO

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Chapter 187. EPAM Information

EPAM Programming Interface Information

EPAM is a programming interface.

EPAM Heading Information

Common Name:	External Parameter Area, SWA Manager Move Mode
Macro ID:	IEFZB506
DSECT Name:	ZB506
Owning Component:	Initiation/termination (SC1B6)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: Caller's subpool Key: Caller's key
Size:	For assigns not passing a block ID or length (standard): 4 bytes. For reads, writes, or write/assigns (standard): 8 bytes. For an assign or a write/assign passing a block ID or a length for the block to be assigned (extended): 16 bytes.
Created by:	Routines that invoke the SWA manager
Pointed to by:	The QMPA (queue manager parameter area), which is pointed to by register 1 on invocation of macro IEFQMREQ.
Serialization:	None
Function:	Contains the virtual address of the SWA storage in which a SWA control block resides.

EPAM mapping

Table 791. Structure ZB506

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ZB506	
0	(0)	CHARACTER	8	SWAMMEPA(0)	MOVE MODE EPA MAPPING FOR STANDARD EPAS
0	(0)	SIGNED	4	SWBUFPTR(0)	FOR READ OR WRITE - BUFFER ADDRESS
0	(0)	CHARACTER	3	SWASNVA	FOR ASSIGNS (SVA)
3	(3)	CHARACTER	1	SWASNZO	4TH BYTE OF SVA0 - FOR ASSIGNS REMAINDER NOT USED FOR ASSIGNS
4	(4)	CHARACTER	3	SWROWVA	SVA FOR READ OR WRITE
7	(7)	CHARACTER	1	SWWRTID	FOR 8 OR 16 BYTE EPAS, THIS IS THE ID OF THE BLOCK TO BE WRITTEN

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Chapter 188. EPCB Information

EPCB Heading Information

Common Name:	EXCP Purge Control Block
Macro ID:	IECDEPCB
DSECT Name:	EPCB
Owning Component:	Execute Channel Program Processor (SC1C6)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 230 - Associated with the job step TCB Key: 0
Size:	252
Created by:	EXCP purge routine to build a list of IOBs to be restored.
Pointed to by:	PIRDVRU field of the PIRL data area (EXCP driver area of PIRL). EPCBCHN field of the EPCB data area.
Serialization:	Local Lock
Function:	The EXCP purge control block contains all the data necessary to restore a purge quiesce request. The EPCB is built by the EXCP purge routine and is used by the EXCP restore routine to restore the purged requests in the appropriate protect key and under the appropriate TCB.

EPCB mapping

Table 792. Structure EPCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EPCB	
0	(0)	BITSTRING	12	EPCBHDRL(0)	EPCB block header area.....
0	(0)	SIGNED	4	EPCBCHN	EPCB block chain pointer address
4	(4)	ADDRESS	4	EPCBRTCB	1st I/O related request TCB address
8	(8)	SIGNED	4	EPCBENT(0)	Current EPCB entry pointer
8	(8)	BITSTRING	1	EPCBNENT	Number of available EPCB entries
9	(9)	ADDRESS	3	EPCBENTY	Current EPCB entry pointer
Each EPCB entry is 3 words in length and contains the following					
12	(C)	BITSTRING	12	EPCBENTT(0)	Start of EPCB table entries....
12	(C)	SIGNED	4	EPCBIOB(0)	Requestors IOB address and key.
12	(C)	BITSTRING	1	EPCBPKEY	Protect key of the originator issuing the request. This field is a copy of the RQEPRT byte. Bits 0-3 are the protect key and bits 4-7 are EXCP flags, one of which indicates a SAM-E request.
13	(D)	ADDRESS	3	EPCBIOBA	Requestors IOB address to be restored.

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Table 792. Structure EPCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	SIGNED	4	EPCBTCB(0)	Address OF THE TCB OR ZEROS and type of IOB.
16	(10)	BITSTRING	1	EPCBIOBT	Type of IOB- 00 - EXCP request, F4 - EXCPVR request
17	(11)	ADDRESS	3	EPCBTCBA	Address OF THE TCB OR ZEROS. If the purge request was not memory quiesce or originating TCB restore was not specified, this field will be zero to indicate that the IOB is to be restored to THE TCB requesting the restore.
20	(14)	ADDRESS	4	EPCBIOBE	Address of the IOB extension or zero
20	(14)	X'C'	0	EPCBENTL	"*-EPCBIOB" EPCB entry length
	End of entries is depicted as a full word of zeros following the last entry.				
20	(14)	X'FC'	0	EPCBBL	"252" Size of a specific EPCB Block (gives 1 header and 20 entries)
20	(14)	X'14'	0	EPCBNE	"(EPCBBL-L'EPCBHDRL)/L'EPCBENTT" Number of EPCB entries

Table 793. Cross Reference for EPCB

Name	Offset	Hex Tag
EPCB	0	
EPCBBL	14	FC
EPCBCHN	0	
EPCBENT	8	
EPCBENTL	14	C
EPCBENTT	C	
EPCBENTY	9	
EPCBHDRL	0	
EPCBIOB	C	
EPCBIOBA	D	
EPCBIOBE	14	
EPCBIOBT	10	
EPCBNE	14	14
EPCBNENT	8	
EPCBPKEY	C	
EPCBRTCB	4	
EPCBTCB	10	
EPCBTCBA	11	

Chapter 189. EPIE Information

EPIE Programming Interface Information

EPIE is a programming interface.

EPIE Heading Information

Common Name:	Extended Program Interruption Element
Macro ID:	IHAEPIE
DSECT Name:	EPIE
Owning Component:	Recovery Termination Manager (SCRTM)
Eye-Catcher ID:	EPIE Offset: X'0' Length: 4
Storage Attributes:	Subpool: 130 or 250 Key: TCB Key
Size:	292 bytes
Created by:	IEAVTESP
Pointed to by:	Register 1 upon entry to an ESPIE exit routine. The EPIE can also be found via TCBPIE + 32 (The EPIE immediately follows the PIE in storage).
Serialization:	Task Active
Function:	The EPIE is used to pass program interruption information to an ESPIE exit routine.

EPIE mapping

Table 794. Structure EPIE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EPIE	
0	(0)	CHARACTER	4	EPIEEPIE	EPIE CONTROL BLOCK IDENTIFIER IN EBCDIC
4	(4)	ADDRESS	4	EPIEPARM	PARAMETER LIST ADDRESS SPECIFIED BY PARAM OPTION OF ESPIE MACRO
8	(8)	CHARACTER	64	EPIEGPR(0)	General purpose registers at time of interruption. When EPIEPITX is on, these are the registers that resulted from the transaction abort due to the program interrupt
8	(8)	CHARACTER	64	EPIETX_ABORT_GPR(0)	Same as EPIEGPR
8	(8)	CHARACTER	64	EPIEGPRA(0)	Same as EPIEGPR
8	(8)	CHARACTER	64	EPIETX_ABORT_GPRA(0)	Same as EPIEGPR
8	(8)	SIGNED	4	EPIEGR00	- Register 0
12	(C)	SIGNED	4	EPIEGR01	- Register 1
16	(10)	SIGNED	4	EPIEGR02	- Register 2
20	(14)	SIGNED	4	EPIEGR03	- Register 3
24	(18)	SIGNED	4	EPIEGR04	- Register 4
28	(1C)	SIGNED	4	EPIEGR05	- Register 5
32	(20)	SIGNED	4	EPIEGR06	- Register 6

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Table 794. Structure EPIE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	SIGNED	4	EPIEGR07	- Register 7
40	(28)	SIGNED	4	EPIEGR08	- Register 8
44	(2C)	SIGNED	4	EPIEGR09	- Register 9
48	(30)	SIGNED	4	EPIEGR10	- Register 10
52	(34)	SIGNED	4	EPIEGR11	- Register 11
56	(38)	SIGNED	4	EPIEGR12	- Register 12
60	(3C)	SIGNED	4	EPIEGR13	- Register 13
64	(40)	SIGNED	4	EPIEGR14	- Register 14
68	(44)	SIGNED	4	EPIEGR15	- Register 15
72	(48)	CHARACTER	8	EPIEPSW(0)	EC MODE PROGRAM OLD PSW When EPIEPITX is on, this is the PSW that resulted from the transaction abort due to the program interrupt
72	(48)	CHARACTER	8	EPIETX_ABORT_PSW(0)	Same as EPIEPSW
72	(48)	BITSTRING	1	EPIEEMK1	Interrupt information masks
73	(49)	BITSTRING	1	EPIEMWP1	PSW key and 'M-W-P'
74	(4A)	BITSTRING	1	EPIECCPM	Condition code and program mask
75	(4B)	BITSTRING	1		Reserved
76	(4C)	SIGNED	4	EPIENXT1(0)	Address of the next instruction to be executed
76	(4C)	BITSTRING	1	EPIEAMF1	Addressing mode flag
	1...			EPIEMOD1	"X'80'" Addressing mode of the next instruction to be executed
77	(4D)	CHARACTER	3	EPIEADD1	24 bit instruction address
80	(50)	CHARACTER	4	EPIEINT(0)	Program interruption information for EPIEPSW
80	(50)	CHARACTER	1	EPIEIRSV	Reserved
81	(51)	BITSTRING	1	EPIEILC1	Instruction Length Code byte (indicates the number of bytes in the failing instruction)
	.... .11.			EPIEIL1	"X'06'" Instruction Length Code Mask (can be used to access the number of halfwords in the failing instruction)
82	(52)	CHARACTER	2	EPIEINC1(0)	Interrupt Code bytes
82	(52)	BITSTRING	1	EPIEICD0	PIC high byte
83	(53)	BITSTRING	1	EPIEICD1	Program Interrupt Code
84	(54)	ADDRESS	4	EPIETEA	TRANSLATION EXCEPTION ADDRESS IF EPIEINT FIELD CONTAINS A PAGE FAULT INTERRUPT CODE
84	(54)	BITSTRING	3		
87	(57)	BITSTRING	1	EPIEDXC	Data exception code if EPIEINC1 indicates program interrupt 7
88	(58)	CHARACTER	64	EPIEAR(0)	ACCESS REGISTERS AT TIME OF INTERRUPTION
88	(58)	SIGNED	4	EPIEAR00	- Access Register 0
92	(5C)	SIGNED	4	EPIEAR01	- Access Register 1
96	(60)	SIGNED	4	EPIEAR02	- Access Register 2
100	(64)	SIGNED	4	EPIEAR03	- Access Register 3
104	(68)	SIGNED	4	EPIEAR04	- Access Register 4
108	(6C)	SIGNED	4	EPIEAR05	- Access Register 5
112	(70)	SIGNED	4	EPIEAR06	- Access Register 6

Table 794. Structure EPIE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
116	(74)	SIGNED	4	EPIEAR07	- Access Register 7
120	(78)	SIGNED	4	EPIEAR08	- Access Register 8
124	(7C)	SIGNED	4	EPIEAR09	- Access Register 9
128	(80)	SIGNED	4	EPIEAR10	- Access Register 10
132	(84)	SIGNED	4	EPIEAR11	- Access Register 11
136	(88)	SIGNED	4	EPIEAR12	- Access Register 12
140	(8C)	SIGNED	4	EPIEAR13	- Access Register 13
144	(90)	SIGNED	4	EPIEAR14	- Access Register 14
148	(94)	SIGNED	4	EPIEAR15	- Access Register 15
152	(98)	BITSTRING	1	EPIEVERS	EPIE VERSION INDICATOR
152	(98)	X'1'	0	EPIEV1	"1" VERSION 1 INDICATOR
152	(98)	X'2'	0	EPIEV2	"2" VERSION 2 INDICATOR
152	(98)	X'3'	0	EPIEV3	"3" VERSION 3 INDICATOR
152	(98)	X'4'	0	EPIEV4	"4" VERSION 4 INDICATOR
153	(99)	BITSTRING	1	EPIEFLGS	EPIE FLAGS
		1...		EPIERCTL	"X'80'" RETRY MODE FROM AN EXIT ROUTINE IS CONTROLLED BY THE CORRESPONDING BIT SETTINGS IN THE EPIEPSW FOR THE FOLLOWING CONDITION(S): . BIT(17) - PRIMARY(0) VS AR(1) ASC MODES NOTE: ALL RESERVED BITS IN THE PSW MUST REMAIN ZERO IN THE EPIEPSW
		.1..		EPIEUP64	"X'40'" If on, use the values in EPIEG64 to update the registers, rather than those in EPIEGPR
		..1.		EPIEUKEY	"X'20'" If on, resume using the PSW key in EPIEPSW instead of the one from the time that the ESPIE exit was established (if the requested key is allowed by the PKM)
		...1		EPIEPERC	"X'10'" An ESPIE exit may set this bit to request that a program exception be 'percolated' to RTM instead of a resume taking place. When this function is requested, the ESPIE exit must not alter the register and AR contents in the EPIE. Note that percolation to RTM does NOT cause the ESPIE exit to be deactivated.
		.... 1...		EPIERSET	"X'08'" Set this bit to request an ESPIE RESET while the system honors your request to resume or to percolate to RTM. This mechanism should be used instead of issuing ESPIE RESET from the ESPIE exit. To RESET to a previous SPIE/ESPIE exit, set this bit and place its token in EPIERTOK before returning to the system.

Table 794. Structure EPIE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
154	(9A)	CHARACTER	1	EPIEICX	Interrupt code extended info
		.... ..1.		EPIEPITX	"X'02'"
155	(9B)	CHARACTER	1		RESERVED
156	(9C)	CHARACTER	4	EPIERTOK	Token to be used when EPIERSET has been set. This token was returned when your program issued ESPIE SET and is the same one that would be specified when invoking ESPIE RESET. As with ESPIE RESET, a token value of zero will cause all SPIE and ESPIE exits to be deleted
156	(9C)	X'A0'	0	EPIEV0LEN	"*-EPIE" VERSION-0 LENGTH
156	(9C)	X'A0'	0	EPIEV1LEN	"*-EPIE" VERSION-1 LENGTH
160	(A0)	CHARACTER	128	EPIEG64(0)	64-bit GPRs at time of interruption. When EPIEPITX is of interruption. When EPIEPITX is on, these are the registers that resulted from the transaction abort due to the program interrupt
160	(A0)	CHARACTER	128	EPIETX_ABORT_G64(0)	Same as EPIEG64
160	(A0)	DBL WORD	8	EPIEG6400	- Register 0
168	(A8)	DBL WORD	8	EPIEG6401	- Register 1
176	(B0)	DBL WORD	8	EPIEG6402	- Register 2
184	(B8)	DBL WORD	8	EPIEG6403	- Register 3
192	(C0)	DBL WORD	8	EPIEG6404	- Register 4
200	(C8)	DBL WORD	8	EPIEG6405	- Register 5
208	(D0)	DBL WORD	8	EPIEG6406	- Register 6
216	(D8)	DBL WORD	8	EPIEG6407	- Register 7
224	(E0)	DBL WORD	8	EPIEG6408	- Register 8
232	(E8)	DBL WORD	8	EPIEG6409	- Register 9
240	(F0)	DBL WORD	8	EPIEG6410	- Register 10
248	(F8)	DBL WORD	8	EPIEG6411	- Register 11
256	(100)	DBL WORD	8	EPIEG6412	- Register 12
264	(108)	DBL WORD	8	EPIEG6413	- Register 13
272	(110)	DBL WORD	8	EPIEG6414	- Register 14
280	(118)	DBL WORD	8	EPIEG6415	- Register 15
280	(118)	X'120'	0	EPIEV2LEN	"*-EPIE" VERSION-2 LENGTH
288	(120)	CHARACTER	8	EPIEBEA	Breaking Event Address
296	(128)	CHARACTER	16	EPIEPS16(0)	16-byte error PSW. When EPIEPITX is on, this is the PSW that resulted from the transaction abort due to the program interrupt
296	(128)	CHARACTER	16	EPIETX_ABORT_PS16	Same as EPIEPS16
312	(138)	CHARACTER	8		Reserved
312	(138)	X'140'	0	EPIEV3LEN	"*-EPIE" VERSION-3 LENGTH
312	(138)	CHARACTER	128	EPIETX_PITDB_PG64(0)	When bit EPIEPITX is on, contains the 64-bit GRs at the time of the program interrupt (from the PITDB)
312	(138)	CHARACTER	128	EPIETXPG64	Same as EPIETX_PITDB_PG64

Table 794. Structure EPIE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
440	(1B8)	CHARACTER	16	EPIETX_PITDB_PPSW16(0)	When bit EPIEPITX is on, contains the 16-byte PSW at the time of the program interrupt (from the PITDB)
440	(1B8)	CHARACTER	16	EPIETXPPSW16	Same as EPIETX_PITDB_PPSW16
456	(1C8)	CHARACTER	8		Reserved
456	(1C8)	X'1D0'	0	EPIEV4LEN	"*-EPIE" VERSION-4 LENGTH
456	(1C8)	X'1D0'	0	EPIELEN	"*-EPIE" CURRENT-VERSION LENGTH

Table 795. Cross Reference for EPIE

Name	Offset	Hex Tag
EPIE	0	
EPIEADD1	4D	
EPIEAMF1	4C	
EPIEAR	58	
EPIEAR00	58	
EPIEAR01	5C	
EPIEAR02	60	
EPIEAR03	64	
EPIEAR04	68	
EPIEAR05	6C	
EPIEAR06	70	
EPIEAR07	74	
EPIEAR08	78	
EPIEAR09	7C	
EPIEAR10	80	
EPIEAR11	84	
EPIEAR12	88	
EPIEAR13	8C	
EPIEAR14	90	
EPIEAR15	94	
EPIEBEA	120	
EPIECCPM	4A	
EPIEDXC	57	
EPIEEMK1	48	
EPIEEPIE	0	
EPIEFLGS	99	
EPIEGPR	8	
EPIEGPRA	8	
EPIEGR00	8	
EPIEGR01	C	
EPIEGR02	10	
EPIEGR03	14	
EPIEGR04	18	
EPIEGR05	1C	
EPIEGR06	20	
EPIEGR07	24	
EPIEGR08	28	

Table 795. Cross Reference for EPIE (continued)

Name	Offset	Hex Tag
EPIEGR09	2C	
EPIEGR10	30	
EPIEGR11	34	
EPIEGR12	38	
EPIEGR13	3C	
EPIEGR14	40	
EPIEGR15	44	
EPIEG64	A0	
EPIEG6400	A0	
EPIEG6401	A8	
EPIEG6402	B0	
EPIEG6403	B8	
EPIEG6404	C0	
EPIEG6405	C8	
EPIEG6406	D0	
EPIEG6407	D8	
EPIEG6408	E0	
EPIEG6409	E8	
EPIEG6410	F0	
EPIEG6411	F8	
EPIEG6412	100	
EPIEG6413	108	
EPIEG6414	110	
EPIEG6415	118	
EPIEICD0	52	
EPIEICD1	53	
EPIEICX	9A	
EPIEILC1	51	
EPIEIL1	51	6
EPIEINC1	52	
EPIEINT	50	
EPIEIRSV	50	
EPIELEN	1C8	1D0
EPIEMOD1	4C	80
EPIEMWP1	49	
EPIENXT1	4C	
EPIEPARM	4	
EPIEPERC	99	10
EPIEPITX	9A	2
EPIEPSW	48	
EPIEPS16	128	
EPIERCTL	99	80
EPIERSET	99	8
EPIERTOK	9C	
EPIETEA	54	
EPIETX_ABORT_GPR	8	
EPIETX_ABORT_GPRA	8	
EPIETX_ABORT_G64	A0	
EPIETX_ABORT_PSW	48	

Table 795. Cross Reference for EPIE (continued)

Name	Offset	Hex Tag
EPIETX_ABORT_PS16	128	
EPIETX_PITDB_PG64	138	
EPIETX_PITDB_PPSW16	1B8	
EPIETXPG64	138	
EPIETXPPSW16	1B8	
EPIEUKEY	99	20
EPIEUP64	99	40
EPIEVERS	98	
EPIEV0LEN	9C	A0
EPIEV1	98	1
EPIEV1LEN	9C	A0
EPIEV2	98	2
EPIEV2LEN	118	120
EPIEV3	98	3
EPIEV3LEN	138	140
EPIEV4	98	4
EPIEV4LEN	1C8	1D0

Chapter 190. EQSRD Information

EQSRD Heading Information

Common Name:	Extended Quick Start Record for Extended PLPA
Macro ID:	ILREQSRD
DSECT Name:	EQSR
Owning Component:	Auxiliary Storage Manager (SC1CW)
Eye-Catcher ID:	EQSR Offset: 0 Length: 4
Storage Attributes:	Virtual Storage: YES Subpool: 245 Key: 0 Data Space: NO Residency: Above 16 Megabytes virtual
Size:	8192 bytes
Created by:	ILRASRIM
Pointed to by:	NVTQSBUF plus length (QSR). The EQSR is contiguous in storage following QSR.
Serialization:	None
Function:	Contains all the information necessary to rebuild the Extended Quick Startable LPA (EPLPA) on a quick or warm start IPL. Consists of a header and a map of pointers to SQSRs (ILRXQSRDs) that contain the primary and secondary LSID information for the EPLPA pages on the PLPA data set.

EQSRD mapping

Table 796. Structure EQSR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	8192	EQSR	Extended Quick Start Record
0	(0)	CHARACTER	192	EQSRHDR	EQSR header
0	(0)	CHARACTER	4	EQSRIDNT	Control block identifier, set to C'EQSR'
4	(4)	ADDRESS	4	EQSRNUCS	Start of read-write nucleus
8	(8)	ADDRESS	4	EQSRNUCE	End of read-write nucleus
12	(C)	ADDRESS	4	EQSRPLPS	Low virtual address (start address of EPLPA). This address must be rounded down to a page boundary
16	(10)	ADDRESS	4	EQSRPLPE	Address of first byte beyond top (end) of EPLPA. This address must be rounded up to a page boundary
20	(14)	BITSTRING	1	EQSRFLGS	EQSR flag byte
		1...		EQSRPLPF	PLPA data set full flag. 1 = PLPA became full during system initialization of EPLPA, 0 = PLPA not full yet

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Table 796. Structure EQSR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		EQSRCOMF	Common data full flag. 1 = Common data set became full during system initialization of EPLPA, 0 = Common data set not full yet
		..11 1111		EQSRFRSV	Reserved
21	(15)	CHARACTER	3	EQSRSRV2	Reserved
24	(18)	CHARACTER	8	EQSRSYNC	Time stamp for EQSR record
32	(20)	ADDRESS	4	EQSRSRV3	Pointer to XQSR in QSR
36	(24)	SIGNED	4	EQSRXNUM	Number of XQSRs for EPLPA
40	(28)	CHARACTER	152	EQSRSRV4	Reserved
192	(C0)	CHARACTER	8000	EQSRMAP	8000-byte map of EPLPA XQSR LSIDs made up of 4-byte entries

Table 797. Structure EQSRENTR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	4	EQSRENTR	EQSR entry containing LSIDs for EPLPA XQSRs, the entries are built in ascending order of virtual address, each entry will contain one LSID. The first zero entry indicates the end of the entries in use
0	(0)	SIGNED	4	EQSRLSID	Logical slot ID for PLPA data set of EPLPA XQSR
0	(0)	CHARACTER	1	EQSRPTNN	PART number portion of LSID identifying page data set
1	(1)	CHARACTER	3	EQSRSLOT	Slot number portion of LSID identifying slot within the PLPA page data set

Table 798. Cross Reference for EQSRD

Name	Offset	Hex Tag
EQSR	0	
EQSRCOMF	14	40
EQSRENTR	0	
EQSRFLGS	14	
EQSRFRSV	14	3F
EQSRHDR	0	
EQSRIDNT	0	
EQSRLSID	0	
EQSRMAP	C0	
EQSRNUCE	8	
EQSRNUCS	4	
EQSRPLPE	10	
EQSRPLPF	14	80
EQSRPLPS	C	
EQSRPTNN	0	
EQSRSLOT	1	

Table 798. Cross Reference for EQSRD (continued)

Name	Offset	Hex Tag
EQSRSRV2	15	
EQSRSRV3	20	
EQSRSRV4	28	
EQSRSYNC	18	
EQSRXNUM	24	

EQSRD mapping

Chapter 191. ERPMSG Information

ERPMSG Heading Information

Common Name: IOS/ERP I/O ERROR MESSAGE MAPPING
Macro ID: IECDLMSG
DSECT Name: MSG
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 252
Key: 0
Size: 140 bytes
Created by: IGE0025C and message exits
Pointed to by: N/A
Serialization: NONE
Function: This DSECT is used by IGE0025C and the message exits to map the message parameter list and the message buffer for the following messages:
IOS000I - Permanent I/O error
IOS001I - PATH INOPERATIVE
IOS002A - NO PATHS AVAILABLE
IOS003A - INTERVENTION REQUIRED
The following can be issued when > 4-digit device numbers must be surfaced:
IOS1000I - Permanent I/O error
IOS1001I - PATH INOPERATIVE
IOS1002A - NO PATHS AVAILABLE
IOS1003A - INTERVENTION REQUIRED

ERPMSG mapping

Table 799. Structure MSG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	140	MSG	
0	(0)	ADDRESS	4	MSGIOSBP	IOSB ADDRESS
4	(4)	ADDRESS	4	MSGPOSP	POSITION POINTER WITHIN MESSAGE BUFFER
8	(8)	CHARACTER	1	MSGTYPE	TYPE OF MESSAGE (FOR EXITS)
		1...		MSGTYPIR	INTERVENTION REQUIRED
		.1..		MSGTYPPE	PERMANENT I/O ERROR
		..1.		MSGTYPPI	PATH INOPERATIVE
		...1		MSGTYPNP	NO PATHS AVAILABLE
		 1111		*	RESERVED
9	(9)	CHARACTER	1	MSGFLAG	COMMUNICATION FROM EXITS
		1...		MSGFLGNU	BYPASS SETTING UCBNRY AND UCBIVRS
		.1..		MSGFLGND	BYPASS ISSUING DOM
		..1.		MSGFLG7F	SET I/O COMPLETION CODE TO 7F
		...1		MSGFLGNR	SET UCBNRY & UCBIVRS
		.... 1...		MSGFLGLD	Larger than 4-digit device number present in this message

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Table 799. Structure MSG (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .111		*	RESERVED
10	(A)	UNSIGNED	1	MSGTOFF	Offset to start of the text in the message
11	(B)	UNSIGNED	1	MSGADOFF	Offset to the start of the text that immediately follows the device number in the message
12	(C)	CHARACTER	128	MSGBUF	START OF MESSAGE BUFFER (4 + MESSAGE TEXT LENGTH)
12	(C)	CHARACTER	2	MSGCNT	MESSAGE LENGTH COUNT
14	(E)	CHARACTER	2	MSGMCSF	MCS FLAGS
		1...		MSGHIGH	ROUTE/DESCRIPTOR CODE FIELDS PRESENT INDICATOR
		.111 1...		*	
		.... .1..		MSGBDCT	BROADCAST THIS MESSAGE TO ALL ACTIVE CONSOLES INDICATOR
14	(E)	BITSTRING	0	*	RESERVED
15	(F)	.1..		MSGMLWTO	MLWTO INDICATOR
		..11 1111		*	RESERVED
16	(10)	CHARACTER	124	MSGTXT	MESSAGE TEXT (MAXIMUM 124 CHARACTERS)
16	(10)	CHARACTER	9	MSGIDX	Message identifier
16	(10)	CHARACTER	8	MSGID	MESSAGE IDENTIFIER

Table 800. Structure MSGCTXTA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	116	MSGCTXTA	
0	(0)	CHARACTER	116	MSGCNTXT	MESSAGE TEXT. This may be a maximum of 116 characters, but may also be less than 116 characters due to larger message numbers and device numbers. Exits should ensure that the total length of MSGTXT will not exceed 124 characters.

Table 801. Structure MSGCODES

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	8	MSGCODES	DESCRIPTION AND ROUTE CODE
0	(0)	CHARACTER	2	MSGDESC	DESCRIPTION-ACTION,STATUS
2	(2)	CHARACTER	1	MSGROUT	DEVICE DEPENDENT ROUTE CODE
3	(3)	CHARACTER	1	MSGROUT2	TYPE OF MESSAGE ERROR
4	(4)	CHARACTER	4	MSGML	LINE TYPE INDICATOR FOR MLWTO

Table 802. Structure MSGINTRQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	5	MSGINTRQ	INTERVENTION REQUIRED MESSAGE
0	(0)	CHARACTER	5	MSG1DEVX	5-digit device number

Table 802. Structure MSGINTRQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	CHARACTER	4	MSG1DEVN	DEVICE NUMBER

Table 803. Structure MSG1T

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	23	MSG1T	begins after the device number
0	(0)	CHARACTER	1	MSG1C1	COMMA
1	(1)	CHARACTER	21	MSG1TXT	INT REQ TEXT
22	(16)	CHARACTER	1	MSG1END	END OF GENERAL MESSAGE

Table 804. Structure MSGPERM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	5	MSGPERM	PERMANENT I/O ERROR MESSAGE
0	(0)	CHARACTER	5	MSG2DEVX	5-digit device number
0	(0)	CHARACTER	4	MSG2DEVN	DEVICE NUMBER

Table 805. Structure MSG2T

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	28	MSG2T	begins after the device number
0	(0)	CHARACTER	1	MSG2C1	COMMA
1	(1)	CHARACTER	2	MSG2PTH	PATH ID
3	(3)	CHARACTER	1	MSG2C2	COMMA
4	(4)	CHARACTER	3	MSG2DESC	ERROR DESCRIPTION
7	(7)	CHARACTER	1	MSG2C3	COMMA
8	(8)	CHARACTER	2	MSG2OP	CCW OP CODE
10	(A)	CHARACTER	1	MSG2C4	COMMA
11	(B)	CHARACTER	4	MSG2STAT	STATUS
15	(F)	CHARACTER	1	MSG2C5	COMMA
16	(10)	CHARACTER	12	MSG2SNS	SENSE BYTES
16	(10)	CHARACTER	1	MSG2IO1	COMMA IF NO SENSE
17	(11)	CHARACTER	1	MSG2IO2	COMMA IF NO SENSE

Table 806. Structure MSGINOP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	5	MSGINOP	PATH INOPERATIVE MESSAGE
0	(0)	CHARACTER	5	MSG3DEVX	5-digit device number
0	(0)	CHARACTER	4	MSG3DEVN	DEVICE NUMBER

Table 807. Structure MSG3T

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	40	MSG3T	begins after the device number
0	(0)	CHARACTER	1	MSG3C1	COMMA
1	(1)	CHARACTER	16	MSG3TXT	MESSAGE TEXT

Table 807. Structure MSG3T (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
17	(11)	CHARACTER	1	MSG3S	TEXT FOR PLURAL INOPERATIVE PATH IDS
18	(12)	CHARACTER	1	MSG3BLNK	BLANK
19	(13)	CHARACTER	20	MSG3PTHS	PATH ID
39	(27)	CHARACTER	1	MSG3END	END OF GENERAL MESSAGE

Table 808. Structure MSGNOPTH

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	5	MSGNOPTH	NO PATHS AVAILABLE MSG
0	(0)	CHARACTER	5	MSG4DEVX	5-digit device number
0	(0)	CHARACTER	4	MSG4DEVN	DEVICE NUMBER

Table 809. Structure MSG4T

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	20	MSG4T	begins after the device number
0	(0)	CHARACTER	1	MSG4C1	COMMA
1	(1)	CHARACTER	18	MSG4TXT	MESSAGE TEXT
19	(13)	CHARACTER	1	MSG4END	END OF GENERAL MESSAGE

Table 810. Cross Reference for ERPMSG

Name	Offset	Hex Tag
MSG	0	
MSGADOFF	B	
MSGBDCT	E	04
MSGBUF	C	
MSGCNT	C	
MSGCNTXT	0	
MSGCODES	0	
MSGCTXTA	0	
MSGDESC	0	
MSGFLAG	9	
MSGFLGLD	9	08
MSGFLGND	9	40
MSGFLGNR	9	10
MSGFLGNU	9	80
MSGFLG7F	9	20
MSGHIGH	E	80
MSGID	10	
MSGIDX	10	
MSGINOP	0	
MSGINTRQ	0	
MSGIOSBP	0	
MSGMCSF	E	
MSGML	4	
MSGMLWTO	F	40

Table 810. Cross Reference for ERPMSG (continued)

Name	Offset	Hex Tag
MSGNOPTH	0	
MSGPERM	0	
MSGPOSP	4	
MSGROUT	2	
MSGROUT2	3	
MSGTOFF	A	
MSGTXT	10	
MSGTYPE	8	
MSGTYPIR	8	80
MSGTYPNP	8	10
MSGTYPPE	8	40
MSGTYPPI	8	20
MSG1C1	0	
MSG1DEVN	0	
MSG1DEVX	0	
MSG1END	16	
MSG1T	0	
MSG1TXT	1	
MSG2C1	0	
MSG2C2	3	
MSG2C3	7	
MSG2C4	A	
MSG2C5	F	
MSG2DESC	4	
MSG2DEVN	0	
MSG2DEVX	0	
MSG2IO1	10	
MSG2IO2	11	
MSG2OP	8	
MSG2PTH	1	
MSG2SNS	10	
MSG2STAT	B	
MSG2T	0	
MSG3BLNK	12	
MSG3C1	0	
MSG3DEVN	0	
MSG3DEVX	0	
MSG3END	27	
MSG3PTHS	13	
MSG3S	11	
MSG3T	0	
MSG3TXT	1	
MSG4C1	0	
MSG4DEVN	0	
MSG4DEVX	0	
MSG4END	13	
MSG4T	0	
MSG4TXT	1	

Chapter 192. ESA Information

ESA Heading Information

Common Name:	RTM2 EXTENDED SAVE AREA
Macro ID:	RTM2ESA
DSECT Name:	RTM2ESA
Owning Component:	RECOVERY TERMINATION MANAGER (SCRTM)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: 255 Key: 0
Size:	49 BYTES
Created by:	SVC FLIH
Pointed to by:	RBEXSAVE OF THE SVRB DATA AREA
Serialization:	TASK ACTIVE
Function:	RTM2ESA MAPS THE USAGE OF THE SVRB EXTENDED SAVE AREA (RBEXSAVE) BY RTM2. IT IS USED TO HOLD RECURSION DATA, AS WELL AS TO HOLD WORKING FLAGS AND INFORMATION PASSED FROM THE SVC FLIH AND FROM RTM1.

ESA mapping

Table 811. Structure RTM2ESA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	48	RTM2ESA	
0	(0)	CHARACTER	28	ESAREGS	REGISTERS SET BY SVC SLIH
0	(0)	ADDRESS	4	ESAR0	REGISTER 0 - PARAMETERS
4	(4)	ADDRESS	4	ESAR1	REGISTER 1 - PARAMETERS
4	(4)	BITSTRING	1	ESACCF1	FLAGS IN REGISTER ONE ON ENTRY
		1...		ESADREQ1	ON, DUMP REQUESTED
		.1..		ESASTEP1	ON, STEP OPTION USED ON ABEND MACRO
		..1.		ESAR0DP1	REGISTER 0 CONTAINED PARAMETERS ON ENTRY
		...1		ESAEOM1	ON, ENTRY IS FOR MEMORY PURGES
		.... 1...		ESAEOT1	ON, ENTRY IS FOR NORMAL EOT
		.... .1..		ESARCREQ	ON, REASON REQUESTED
		11		*	RESERVED
5	(5)	CHARACTER	3	ESACC1	COMPLETION CODE
8	(8)	ADDRESS	4	*	STRUCTURE FOR REASON CODE
8	(8)	UNSIGNED	1	ESA40DRC	CRITICAL ERROR REASON CODE TO BE PROVIDED WITH X'40D' MEMTERM
9	(9)	CHARACTER	3	*	RESERVED
12	(C)	ADDRESS	4	ESAR4	REGISTER 4 - TCB ADDRESS
16	(10)	ADDRESS	4	ESAR5	REGISTER 5 - RB ADDRESS
20	(14)	ADDRESS	4	ESAR7	REGISTER 7 - ASCB ADDRESS
24	(18)	ADDRESS	4	ESAR14	REGISTER 14 - RETURN ADDRESS
28	(1C)	ADDRESS	4	ESAEEDQ	PTR TO EED QUEUE, SAVED FROM TCB
32	(20)	ADDRESS	4	ESART2WA	PTR TO RTM2 WORK AREA
36	(24)	CHARACTER	4	ESART2D	DESCRIPTION OF RTM2 WORK AREA

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Table 811. Structure RTM2ESA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	UNSIGNED	1	ESAWSPID	SUBPOOL OF WORK AREA
37	(25)	UNSIGNED	3	ESAWLEN	LENGTH OF WORK AREA
40	(28)	BITSTRING	1	ESAFLAGS	FLAGS SAVED FROM TCB
		1...		ESARTM2	ON, THIS ENTRY IS RECURSIVE
		.1..		ESAABTRM	ON, ENTRY WAS VIA ABTERM
		..1.		ESAPGNLY	ON, ENTRY WAS FOR PURGES
		...1		ESACTS	ON, ENTRY WAS FOR CONVERTED TO STEP
		.... 1...		ESANEOT	ENTRY FOR NORMAL END OF TASK
		.... .1..		ESAEOT	TASK IS BEING TERMINATED
		.... ..1.		ESAVEOM	ENTRY FOR VALID END OF MEMORY
		1		ESART1S	IF ON, RTM1 HAS ALREADY INVOKED SLIP ON BEHALF OF THE ERROR
41	(29)	BITSTRING	1	ESARFLAG	FLAGS USED FOR RECURSION
		1...		ESAGMREC	ON DURING GETMAIN. IF GETMAIN FAILS, NEXT ENTRY WILL TERMINATE THE MEMORY
		.1..		ESASDREC	ON DURING SDUMP IN CASE OF RECURSION
		..1.		ESAINREC	ON DURING INITIALIZATION IN CASE OF RECURSION
		...1		ESAGLREC	ON, SETLOCK IN PROGRESS
		.... 1...		ESAFERR	ON, RTM2 HAS ENCOUNTERED AN ERROR WHICH NEGATES FURTHER PROCESSING
		.... .1..		ESARTCR	ON DURING CHECK FOR RECUR.
		.... ..1.		ESANEFF	ON DURING SLIP PROCESS AND OTHER NON-ESSENTIAL FUNCTIONS (FAIN)
		1		ESAWAREC	ON, INDICATES THE PTR TO THE PREVIOUS RTM2 WORK AREA IS INVALID AND RTM2 WILL TERMINATE THE MEMORY.
42	(2A)	ADDRESS	1	ESAERTYP	INDICATE TYPE OF ERROR ENTRY INTO RTM1
43	(2B)	ADDRESS	1	ESAMODE	MODE OF SYSTEM AT TIME OF ERROR
44	(2C)	CHARACTER	4	ESACMP	COMPLETION CODE FROM TCB
44	(2C)	BITSTRING	1	ESACCF	COMPLETION CODE FIELD FLAGS
		1...		ESADREQ	ON, DUMP REQUESTED
		.1..		ESASTEP	ON, STEP OPTION REQUESTED
		..1.		ESAR0DP	REGISTER 0 CONTAINED PARAMETERS ON ENTRY
		...1		ESANOCC	A COMPLETION CODE WAS NOT PROVIDED ON CALLRTM MACRO A DEFAULT CODE IS BEING USED
		.... 1...		ESAASID	ABEND WAS SCHEDULED VIA CROSS MEMORY ABTERM
		.... .111		*	RESERVED
45	(2D)	CHARACTER	3	ESACC	COMPLETION CODE

Table 812. Cross Reference for ESA

Name	Offset	Hex Tag
ESAABTRM	28	40

Table 812. Cross Reference for ESA (continued)

Name	Offset	Hex Tag
ESAASID	2C	08
ESACC	2D	
ESACCF	2C	
ESACCF1	4	
ESACC1	5	
ESACMP	2C	
ESACTS	28	10
ESADREQ	2C	80
ESADREQ1	4	80
ESAEEDQ	1C	
ESAEOM1	4	10
ESAEOT	28	04
ESAEOT1	4	08
ESAERTYP	2A	
ESAFERR	29	08
ESAFLAGS	28	
ESAGLREC	29	10
ESAGMREC	29	80
ESAINREC	29	20
ESAMODE	2B	
ESANEFF	29	02
ESANEOT	28	08
ESANOCC	2C	10
ESAPGNLY	28	20
ESARCREQ	4	04
ESAREGS	0	
ESARFLAG	29	
ESARTCR	29	04
ESARTM2	28	80
ESART1S	28	01
ESART2D	24	
ESART2WA	20	
ESAR0	0	
ESAR0DP	2C	20
ESAR0DP1	4	20
ESAR1	4	
ESAR14	18	
ESAR4	C	
ESAR5	10	
ESAR7	14	
ESASDREC	29	40
ESASTEP	2C	40
ESASTEP1	4	40
ESAVEOM	28	02
ESAWAREC	29	01
ESAWLEN	25	
ESAWSPID	24	
ESA40DRC	8	
RTM2ESA	0	

Chapter 193. ESPI Information

ESPI Heading Information

Common Name:	EXTENDED SPIE PARAMETER LIST
Macro ID:	IHAESPI
DSECT Name:	EPIE
Owning Component:	RECOVERY TERMINATION MANAGER (SCRTM)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: USER DEFINED Key: USER DEFINED
Size:	16 BYTES
Created by:	ESPIE MACRO SET OPTION
Pointed to by:	REGISTER 1 UPON ENTRY TO THE ESPIE SVC
Serialization:	NONE
Function:	ESPIE SET MACRO PARAMETER LIST

ESPI mapping

Table 813. Structure ESPI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	16	ESPI	
0	(0)	ADDRESS	4	ESPIEXIT	ADDRESS OF USER EXIT ROUTINE. (HIGH ORDER BIT MUST BE ZERO WHEN PASSED TO THE ESPIE SET FUNCTION, AND INDICATES THE EXIT ROUTINES ADDRESSING MODE WHEN RETURNED FROM ESPIE TEST.)
4	(4)	ADDRESS	4	ESPIPARM	ADDRESS OF USER DEFINED PARAMETER LIST
8	(8)	BITSTRING	4	ESPIITMK	MASK OF PROGRAM INTERRUPTION TYPES
12	(C)	ADDRESS	4	ESPIARSV	RESERVED

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Chapter 194. ESTA Information

ESTA Heading Information

Common Name:	EXTENDED STAE PARAMETER LIST
Macro ID:	IHAESTA
DSECT Name:	ESTA
Owning Component:	RECOVERY TERMINATION MANAGER (SCRTM)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: USER DEFINED Key: USER DEFINED
Size:	24 BYTES
Created by:	ESTAE MACRO EXPANSION
Pointed to by:	REGISTER 1 UPON ENTRY TO THE ESTAE SERVICE ROUTINE
Serialization:	NONE
Function:	ESTAE SET MACRO PARAMETER LIST

ESTA mapping

Table 814. Structure ESTA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	24	ESTA	
0	(0)	ADDRESS	4	ESTAEXT	FLAGS AND USER EXIT ADDRESS
0	(0)	CHARACTER	1	ESTAFLG1	OPTION FLAGS
		1...		ESTASTAI	(E)STAI REQUEST (TCB SPECIFIED)
		.1..		ESTAARM	ON, INDICATES ACCESS REGISTER ASC MODE.
		..1.		ESTAENCL	CANCEL(NO) SPECIFIED. ESTAE RUNS PROTECTED FROM CANCELS AND DETACHS.
		...1		ESTAESTA	ESTAI/ESTAE PARAMETER LIST. OFF, INDICATES STAI/STAE PARMS
		.... 1...		ESTATPS	TOKEN PARAMETER SPECIFIED
		.... .1..		ESTASYNC	ALLOW ASYNCHRONOUS INTERRUPTS
		11		ESTAIO	I/O PROCESSING OPTIONS, BITS 6&7 00 - QUIESCE I/O 01 - HALT I/O 10 - BYPASS I/O INTERVENTION 11 - RESERVED
		.... ..1.		ESTANOIO	BYPASS I/O INTERVENTION
		1		ESTAHALT	HALT I/O
1	(1)	ADDRESS	3	ESTAEXIT	24-BIT ADDRESS OF USER EXIT ROUTINE
4	(4)	ADDRESS	4	ESTAPARM	ADDRESS OF USER PARAMETER LIST
8	(8)	ADDRESS	4	ESTAOWNR	TCB ADDRESS IF (E)STAI REQUEST, OTHERWISE, ZERO
12	(C)	ADDRESS	4	ESTAFGRS	FLAGS AND RESERVED FIELD
12	(C)	CHARACTER	1	ESTAFLG2	OPTION FLAGS
		1...		ESTALO31	LOC 31 SDWA REQUESTED
		.1..		ESTATERM	REQUEST FOR TERM PROCESSING
		..1.		ESTAEREC	REQUEST FOR ERROR RECORDING
		...1 1...		*	RESERVED

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Table 814. Structure ESTA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		ESTABRNT	REQUEST FOR FESTAE
		11		*	RESERVED
13	(D)	CHARACTER	1	ESTAFLG3	OPTION/LEVEL FLAGS
		1111 111.		*	RESERVED
		1		ESTANXIT	ADDRESS OF THE EXIT ROUTINE IS IN ESTANEXT FIELD
14	(E)	ADDRESS	2	ESTARSVI	RESERVED
16	(10)	SIGNED	4	ESTATOKN	TOKEN VALUE
20	(14)	ADDRESS	4	ESTANEXT	31-BIT EXIT ADDRESS USED IF ESTANIXT FLAG SET BY USER

Table 815. Cross Reference for ESTA

Name	Offset	Hex Tag
ESTA	0	
ESTAARM	0	40
ESTABRNT	C	04
ESTAENCL	0	20
ESTAEREC	C	20
ESTAESTA	0	10
ESTAEXIT	1	
ESTAEXT	0	
ESTAFGRS	C	
ESTAFLG1	0	
ESTAFLG2	C	
ESTAFLG3	D	
ESTAHALT	0	01
ESTAIO	0	03
ESTALO31	C	80
ESTANEXT	14	
ESTANOIO	0	02
ESTANXIT	D	01
ESTAOWNR	8	
ESTAPARM	4	
ESTARSVI	E	
ESTASTAI	0	80
ESTASYNC	0	04
ESTATERM	C	40
ESTATOKN	10	
ESTATPS	0	08

Chapter 195. ESW Information

ESW Heading Information

Common Name:	ESW - Extended Status Word
Macro ID:	IHAESW
DSECT Name:	ESW
Owning Component:	I/O Supervisor (SC1C3)
Eye-Catcher ID:	none
Storage Attributes:	Subpool: N/A Key: 0 Residency: Fixed in IOS work area
Size:	4 bytes
Created by:	N/A
Pointed to by:	BASED(ESWPTR) or user defined pointer
Serialization:	None
Function:	The ESW is part of the IRB and is stored on a store subchannel instruction

ESW mapping

Table 816. Structure ESW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	4	ESW	
0	(0)	CHARACTER	4	ESWNOLOG	Format of non-logout data
0	(0)	CHARACTER	1	*	Reserved
1	(1)	CHARACTER	1	ESWLPUM	Last Path Used Mask (LPUM)
2	(2)	UNSIGNED	2	ESWDCTI	Device Connect Time Interval

Table 817. Structure ESWLOG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	4	ESWLOG	Format of logout data
0	(0)	BITSTRING	1	ESWFLG1	Flags - byte 1
		1...		*	
		.111 1111		ESWECF	Error check flags ----------
		.1..		ESWSKE	- Storage key error
		..1.		ESWMBPGC	- Measurement block program ck
		...1		ESWMBDC	- Measurement block data check
		.... 1...		ESWMBPTC	- Measurement block protection check
		.... .1..		ESWCCWC	- CCW check
		.... ..1.		ESWIDAWC	- IDAW or MIDAW check
		1		ESWALC	- Address Linit check
1	(1)	BITSTRING	1	ESWLPUM0	LPUM - Lat Path Used Mask
2	(2)	BITSTRING	1	ESWFLG2	Flags - byte 2
		1...		ESWAP	- Ancillary-Report bit
		.111 11..		ESWFVF	- Field Validity Flags
		.1..		ESWLPUMV	-Last Path Used Mask validity

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Table 817. Structure ESWLOG (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		ESWTCV	-Termination code valid
		...1		ESWSCV	-Sequence code valid
		.... 1...		ESWDSV	-Device status valid
		.... .1..		ESWCCWV	-CCW address valid
		.... .1..		ESWTCWV	-For FCX, the ending TCW address is valid
		.... .1..		ESWAOBV	-For ADM, the AOB address is valid
		11		ESWSA	- Storage Access Code
3	(3)	BITSTRING	1	ESWFLG3	Flags - byte 3
		11..		ESWTC	- Termination Code (See DCLs)
		..1.		ESWD	- Device status check
		...1		ESWE	- Secondary error indication
		.... 1...		ESWIOA	- I/O error alert
		.... .111		ESWSEQC	- Sequence code

Table 818. Constants for ESW

Len	Type	Value	Name	Description
ESWSQ Field - Field definitions - Storage Access Codes				
0	BIT	00	ESWSAUN	Access type - NON-DATA transfer or UNKNOWN
0	BIT	01	ESWSARD	Access type - READ
0	BIT	10	ESWSAWR	Access type - WRITE
0	BIT	11	ESWSARB	Access type - READ BACKWARD
ESWTC Field - Field definitions - Termination Codes				
0	BIT	00	ESWTID	Interface Disconnect
0	BIT	10	ESWTSR	Selective Reset
0	BIT	01	ESWTSSN	STOP, STACK, or NORMAL termination

Table 819. Cross Reference for ESW

Name	Offset	Hex Tag
ESW	0	
ESWALC	0	01
ESWAOBV	2	04
ESWAP	2	80
ESWCCWC	0	04
ESWCCWV	2	04
ESWD	3	20
ESWDCTI	2	
ESWDSV	2	08
ESWE	3	10
ESWECF	0	7F
ESWFLG1	0	
ESWFLG2	2	
ESWFLG3	3	
ESWFVF	2	7C

Table 819. Cross Reference for ESW (continued)

Name	Offset	Hex Tag
ESWIDAWC	0	02
ESWIOA	3	08
ESWLOG	0	
ESWLPUM	1	
ESWLPUMV	2	40
ESWLPUM0	1	
ESWMBDC	0	10
ESWMBPGC	0	20
ESWMBPTC	0	08
ESWNOLOG	0	
ESWSA	2	03
ESWSCV	2	10
ESWSEQC	3	07
ESWSKE	0	40
ESWTC	3	C0
ESWTCV	2	20
ESWTCWV	2	04

Chapter 196. ESWL Information

ESWL Heading Information

Common Name:	Extended Status Word Long.
Macro ID:	IHAESWL
DSECT Name:	ESW
Owning Component:	I/O Supervisor (SC1C3)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: N/A Key: 0 Residency: Fixed in IOS work area
Size:	20-bytes
Created by:	N/A
Pointed to by:	BASED(ESWPTR) or user defined pointer
Serialization:	None
Function:	Maps the fields of the extended status word.

ESWL mapping

Table 820. Structure ESW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	20	ESW	
0	(0)	CHARACTER	4	ESWLOG	Format of logout data
0	(0)	BITSTRING	1	ESWFLG1	Flags - byte 0
		1...		*	Reserved, set to zero.
		.111 1111		ESWECF	Error check flags.
		.1..		ESWSKE	Storage key error.
		..1.		ESWMBPGC	Measurement block program check.
		...1		ESWMBDC	Measurement block data check.
		.... 1...		ESWMBPTC	Measurement block protection check.
		.... .1..		ESWCCWC	CCW check.
		.... ..1.		ESWIDAWC	IDAW or MIDAW check
		1		ESWALC	Address limit check.
1	(1)	CHARACTER	1	ESWLPUM	LPUM - Last path used mask.
1	(1)	BITSTRING	1	ESWLPUM0	LPUM - Last path used mask.
2	(2)	UNSIGNED	2	ESWDCTI	Device connect time interval, format 2 ESW.
2	(2)	BITSTRING	1	ESWFLG2	Flags - byte 2.
		1...		ESWAP	Ancillary-Report bit
		.111 11..		ESWFVF	Field validity flags.
		.1..		ESWLPUMV	Last path used mask validity.
		..1.		ESWTCV	Termination code valid.
		...1		ESWSCV	Sequence code valid.
		.... 1...		ESWDSV	Device status valid.
		.... .1..		ESWCCWV	CCW address valid.
		.... .1..		ESWTCWV	For FCX, the ending TCW address is valid

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Table 820. Structure ESW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		ESWAOBV	For EADM, the AOB address is valid
		11		ESWSA	Storage access code.
3	(3)	BITSTRING	1	ESWFLG3	Flags - byte 3
		11..		ESWTC	Termination code.
		..1.		ESWD	Device status check.
		...1		ESWE	Secondary error indication.
		.... 1...		ESWIOA	I/O error alert.
		.... .111		ESWSEQC	Sequence code.
4	(4)	CHARACTER	4	ESWERW	Extended report word.
4	(4)	BITSTRING	1	ESWERW0	ERW byte 0.
		1...		*	Reserved, set to zero.
		.1..		ESWRLO	Request logging only
		..1.		ESWXSLP	If on, extended-subchannel-logout data is pending
		...1		ESWIOAC	If on, authorization check failed during START or RESUME initialization
		.... 1...		ESWPVR	Path verification required flag
		.... .1..		ESWT	Device failed to respond to a signaling sequence.Channel-path timeout indicator
		.... ..1.		ESWFSAVF	Failing-storage address validity flag.
		1		ESWCS	Concurrent sense information stored.
5	(5)	BITSTRING	1	ESWERW1	ERW byte 1.
		1...		ESW2CCWV	Secondary CCW Address Valid
		.1..		*	Reserved, set to zero.
		..11 1111		ESWCSCNT	Number of sense bytes placed in the extended control word
6	(6)	BITSTRING	1	ESWERW2	ERW byte 2.
		1...		ESWOBE	The exception status stored in the EADM SCSW is associated with the specified EADM AOB
		.1..		ESWRBS	If one then the EADM Response Block (ARSB) is stored. When zero then the ARSB is not stored and the contents of the ARSB in the AOB have no meaning
		..11 1111		*	Reserved, set to zero.
7	(7)	BITSTRING	1	ESWERW3	ERW byte 3.
7	(7)	BITSTRING	1	*	Reserved, set to zero.
8	(8)	ADDRESS	8	ESWEFSA	64-bit fail storage addr
8	(8)	UNSIGNED	4	ESWEFSAH	High order of 64-bit FSA
8	(8)	ADDRESS	4	ESWFSA	Failing-storage address when an invalid checking block code is detected for pre-fetched data, CCWs, IDAWs or MIDAWs.
8	(8)	BITSTRING	4	ESWXSLD	Extended-Subchannel-Logout Descriptor, valid when ESWXSLP is on
8	(8)	BITSTRING	1	ESWLOPM	Logout path mask
9	(9)	BITSTRING	2	*	Reserved

Table 820. Structure ESW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
11	(B)	BITSTRING	1	ESWLT	Logout token
12	(C)	UNSIGNED	4	ESWEFSAL	Low order of 64-bit FSA
16	(10)	ADDRESS	4	ESW2CCWA	Absolute address of the Secondary CCW Address

Table 821. Constants for ESWL

Len	Type	Value	Name	Description
ESWSA Field - Field definitions - Storage Access Codes				
0	BIT	00	ESWSAUN	Access type - NON-DATA transfer or UNKNOWN
0	BIT	01	ESWSARD	Access type - READ
0	BIT	10	ESWSAWR	Access type - WRITE
0	BIT	11	ESWSARB	Access type - READ BACKWARD
ESWTC Field - Field definitions - Termination Codes				
0	BIT	00	ESWTID	Halt signal issued, interface disconnect.
0	BIT	01	ESWTSSN	STOP, STACK, or NORMAL termination
0	BIT	10	ESWTSR	Clear signal issued, selective reset.

Table 822. Cross Reference for ESWL

Name	Offset	Hex Tag
ESW	0	
ESWALC	0	01
ESWAOBV	2	04
ESWAP	2	80
ESWCCWC	0	04
ESWCCWV	2	04
ESWCS	4	01
ESWCSCNT	5	3F
ESWD	3	20
ESWDCTI	2	
ESWDSV	2	08
ESWE	3	10
ESWECF	0	7F
ESWEFSA	8	
ESWEFSAH	8	
ESWEFSAL	C	
ESWERW	4	
ESWERW0	4	
ESWERW1	5	
ESWERW2	6	
ESWERW3	7	
ESWFLG1	0	
ESWFLG2	2	
ESWFLG3	3	

Table 822. Cross Reference for ESWL (continued)

Name	Offset	Hex Tag
ESWFSA	8	
ESWFSAVF	4	02
ESWFVF	2	7C
ESWIDAWC	0	02
ESWIOA	3	08
ESWIOAC	4	10
ESWLOG	0	
ESWLOPM	8	
ESWLPUM	1	
ESWLPUMV	2	40
ESWLPUM0	1	
ESWLT	B	
ESWMBDC	0	10
ESWMBPGC	0	20
ESWMBPTC	0	08
ESWOBE	6	80
ESWPVR	4	08
ESWRBS	6	40
ESWRLO	4	40
ESWSA	2	03
ESWSCV	2	10
ESWSEQC	3	07
ESWSKE	0	40
ESWT	4	04
ESWTC	3	C0
ESWTCV	2	20
ESWTCWV	2	04
ESWXSLD	8	
ESWXSLP	4	20
ESW2CCWA	10	
ESW2CCWV	5	80

Chapter 197. ETD0 Information

ETD0 Programming Interface Information

ETD0 is a programming interface.

ETD0 Heading Information

Common Name:	Entry Table Description
Macro ID:	IHAETD
DSECT Name:	ETD, ETDELE
Owning Component:	PC/AUTH (SCXMS)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: caller-supplied Key: caller-supplied Residency: caller-supplied
Size:	Header of 8 bytes plus up to 256 entries of: 20 bytes each - format 0 40 bytes each - format 1
Created by:	Issuer of the ETDEF macro in any accessable storage
Pointed to by:	The ETCRE parameter list
Serialization:	Provided by the caller of the Entry Table Create service
Function:	Describes the entries to be assigned in the entry table created by the Entry Table Create service routine (IEAVXECR).

ETD0 mapping

Table 823. Structure ETD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ETD	
0	(0)	DBL WORD	8	(0)	ENTRY TABLE DESCRIPTION LIST - DESCRIBES THE INPUT LIST TO THE ETCRE MACRO
0	(0)	BITSTRING	1	ETDFMT	FORMAT NUMBER OF ETD. 0= ORIGINAL FORM - PRE HBB3310
		1		ETDFMTE	"X'01'" 1= EXTENDED FORM - HBB3310
1	(1)	BITSTRING	1	ETDHFLAG	All non-used bits must be zero.
		1...		ETDRCRD	"X'80'" If bit is ON, NO recording of cross memory connections will be performed. If bit is OFF, recording will be done. Classification: DMTI Notes: All other bits must be zero.
		.111 1111		ETDFLGRS	"X'7F'" Non-used bits mask
2	(2)	SIGNED	2	ETDNUM	NUMBER OF ENTRY DESCRIPTIONS THAT FOLLOW (MAXIMUM OF 256 ENTRIES PER TABLE)
2	(2)	X'4'	0	ETDEND	"*"

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Table 823. Structure ETD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2	(2)	X'4'	0	ETDLEN	"ETDEND-ETD" LENGTH OF ETD HEADER

Table 824. Structure ETDELE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ETDELE	ELEMENT DESCRIPTION. ONE FOR EACH
0	(0)	SIGNED	4	(0)	ENTRY TO BE ASSIGNED.
0	(0)	BITSTRING	1	ETDEX	INDEX FOR THIS ENTRY
1	(1)	BITSTRING	1	ETDFLG	FLAG BYTE
		1...		ETDSUP	"X'80'" PROGRAM EXECUTION STATE 0= PROBLEM STATE 1= SUPERVISOR STATE.
		.1..		ETDXM	"X'40'" CROSS MEMORY SPACE SWITCH. 0= ENTRY WILL NOT CAUSE A SPACE SWITCH 1= THE PROGRAM WILL EXECUTE IN THE ADDRESS SPACE OF THE CREATOR OF THE ENTRY TABLE WITH THE AUTHORIZATION OF THAT ADDRESS SPACE.
		..11 1111		ETDBRS3F	"X'3F'" RESERVED. BITS 3-8 MUST BE ZERO.
2	(2)	SIGNED	2	ETDRS002	RESERVED. MUST BE ZERO
4	(4)	CHARACTER	8	ETDPRO(0)	PROGRAM NAME TO BE INVOKED OR VIRTUAL ADDRESS OF PROGRAM ENTRY POINT. IF A PROGRAM NAME, THE NAMED PROGRAM MUST BE ON THE ACTIVE LPA QUEUE (FLPA OR MLPA) OR BE IN THE PLPA OR NUCLEUS. IF AN ADDRESS, ETDPRO1 MUST BE ZERO AND ETDPRO2 MUST BE THE ADDRESS.
4	(4)	SIGNED	4	ETDPRO1	FIRST WORD OF ETDPRO
8	(8)	SIGNED	4	ETDPRO2	SECOND WORD OF ETDPRO
		1...		ETDAMODE	"X'80'" IF PROGRAM ADDRESS IS SPECIFIED THIS BIT INDICATES AMODE : IF 1, PC ROUTINE EXECUTES IN 31-BIT MODE. IF 0, PC ROUTINE EXECUTES IN 24-BIT MODE
12	(C)	SIGNED	2	ETDAKM	16 BIT AUTHORIZED KEY MASK. BIT 0 REPRESENTS KEY 0, ETC. IF A BIT IS ON, THE CORRESPONDING KEY IS AUTHORIZED TO CALL THIS ENTRY.
12	(C)	BITSTRING	0	ETDAK0	"X'8000'" MASK FOR KEY 0
12	(C)	BITSTRING	0	ETDAK1	"X'4000'" MASK FOR KEY 1
12	(C)	BITSTRING	0	ETDAK2	"X'2000'" MASK FOR KEY 2
12	(C)	BITSTRING	0	ETDAK3	"X'1000'" MASK FOR KEY 3
12	(C)	BITSTRING	0	ETDAK4	"X'0800'" MASK FOR KEY 4
12	(C)	BITSTRING	0	ETDAK5	"X'0400'" MASK FOR KEY 5
12	(C)	BITSTRING	0	ETDAK6	"X'0200'" MASK FOR KEY 6

Table 824. Structure ETDELE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	BITSTRING	0	ETDAK7	"X'0100'" MASK FOR KEY 7
		1...		ETDAK8	"X'0080'" MASK FOR KEY 8
		.1..		ETDAK9	"X'0040'" MASK FOR KEY 9
		..1.		ETDAKA	"X'0020'" MASK FOR KEY 10
		...1		ETDAKB	"X'0010'" MASK FOR KEY 11
		.... 1...		ETDAKC	"X'0008'" MASK FOR KEY 12
		.... .1..		ETDAKD	"X'0004'" MASK FOR KEY 13
		.... ..1.		ETDAKE	"X'0002'" MASK FOR KEY 14
		1		ETDAKF	"X'0001'" MASK FOR KEY 15
14	(E)	SIGNED	2	ETDEKM	16 BIT ENTRY KEY MASK. BIT 0 REPRESENTS KEY 0, ETC. IF A BIT IS ON, THE CALLED PROGRAM WILL BE AUTHORIZED TO USE THE CORRESPONDING KEY.
14	(E)	BITSTRING	0	ETDEK0	"X'8000'" MASK FOR KEY 0
14	(E)	BITSTRING	0	ETDEK1	"X'4000'" MASK FOR KEY 1
14	(E)	BITSTRING	0	ETDEK2	"X'2000'" MASK FOR KEY 2
14	(E)	BITSTRING	0	ETDEK3	"X'1000'" MASK FOR KEY 3
14	(E)	BITSTRING	0	ETDEK4	"X'0800'" MASK FOR KEY 4
14	(E)	BITSTRING	0	ETDEK5	"X'0400'" MASK FOR KEY 5
14	(E)	BITSTRING	0	ETDEK6	"X'0200'" MASK FOR KEY 6
14	(E)	BITSTRING	0	ETDEK7	"X'0100'" MASK FOR KEY 7
		1...		ETDEK8	"X'0080'" MASK FOR KEY 8
		.1..		ETDEK9	"X'0040'" MASK FOR KEY 9
		..1.		ETDEKA	"X'0020'" MASK FOR KEY 10
		...1		ETDEKB	"X'0010'" MASK FOR KEY 11
		.... 1...		ETDEKC	"X'0008'" MASK FOR KEY 12
		.... .1..		ETDEKD	"X'0004'" MASK FOR KEY 13
		.... ..1.		ETDEKE	"X'0002'" MASK FOR KEY 14
		1		ETDEKF	"X'0001'" MASK FOR KEY 15
16	(10)	CHARACTER	4	ETDPAR	PARAMETER TO BE PASSED TO THE CALLED PROGRAM.
20	(14)	SIGNED	4	ETDEEND(0)	END OF ENTRY TABLE DESCRIPTOR
20	(14)	X'14'	0	ETDELEN	"ETDEEND-ETDELE" LENGTH OF ENTRY DESCRIPTOR ELEMENT

Table 825. Cross Reference for ETD0

Name	Offset	Hex Tag
ETD	0	
ETDAKA	C	20
ETDAKB	C	10
ETDAKC	C	8
ETDAKD	C	4
ETDAKE	C	2
ETDAKF	C	1
ETDAKM	C	
ETDAK0	C	8000
ETDAK1	C	4000
ETDAK2	C	2000
ETDAK3	C	1000

Table 825. Cross Reference for ETD0 (continued)

Name	Offset	Hex Tag
ETDAK4	C	800
ETDAK5	C	400
ETDAK6	C	200
ETDAK7	C	100
ETDAK8	C	80
ETDAK9	C	40
ETDAMODE	8	80
ETDBRS3F	1	3F
ETDEEND	14	
ETDEKA	E	20
ETDEKB	E	10
ETDEKC	E	8
ETDEKD	E	4
ETDEKE	E	2
ETDEKF	E	1
ETDEKM	E	
ETDEK0	E	8000
ETDEK1	E	4000
ETDEK2	E	2000
ETDEK3	E	1000
ETDEK4	E	800
ETDEK5	E	400
ETDEK6	E	200
ETDEK7	E	100
ETDEK8	E	80
ETDEK9	E	40
ETDELE	0	
ETDELEN	14	14
ETDEND	2	4
ETDEX	0	
ETDFLG	1	
ETDFLGRS	1	7F
ETDFMT	0	
ETDFMTE	0	1
ETDHFLAG	1	
ETDLEN	2	4
ETDNUM	2	
ETDPAR	10	
ETDPRO	4	
ETDPRO1	4	
ETDPRO2	8	
ETDRCRD	1	80
ETDRS002	2	
ETDSUP	1	80
ETDXM	1	40

Chapter 198. ETD1 Information

ETD1 Programming Interface Information

ETD1 is a programming interface.

ETD1 Heading Information

Common Name:	Entry Table Description
Macro ID:	IHAETD
DSECT Name:	ETD, ETDELE
Owning Component:	PC/AUTH (SCXMS)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: caller-supplied Key: caller-supplied Residency: caller-supplied
Size:	Header of 8 bytes plus up to 256 entries of: 20 bytes each - format 0 40 bytes each - format 1
Created by:	Issuer of the ETDEF macro in any accessable storage
Pointed to by:	The ETCRE parameter list
Serialization:	Provided by the caller of the Entry Table Create service
Function:	Describes the entries to be assigned in the entry table created by the Entry Table Create service routine (IEAVXECR).

ETD1 mapping

Table 826. Structure ETD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ETD	
0	(0)	DBL WORD	8	(0)	ENTRY TABLE DESCRIPTION LIST - DESCRIBES THE INPUT LIST TO THE ETCRE MACRO
0	(0)	BITSTRING	1	ETDFMT	FORMAT NUMBER OF ETD. 0= ORIGINAL FORM - PRE HBB3310
		1		ETDFMTE	"X'01'" 1= EXTENDED FORM - HBB3310
1	(1)	BITSTRING	1	ETDHFLAG	All non-used bits must be zero.
		1...		ETDRCRD	"X'80'" If bit is ON, NO recording of cross memory connections will be performed. If bit is OFF, recording will be done. Classification: DMTI Notes: All other bits must be zero.
		.111 1111		ETDFLGRS	"X'7F'" Non-used bits mask
2	(2)	SIGNED	2	ETDNUM	NUMBER OF ENTRY DESCRIPTIONS THAT FOLLOW (MAXIMUM OF 256 ENTRIES PER TABLE)
2	(2)	X'4'	0	ETDEND	"*"

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Table 826. Structure ETD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2	(2)	X'4'	0	ETDLEN	"ETDEND-ETD" LENGTH OF ETD HEADER

Table 827. Structure ETDELE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ETDELE	ELEMENT DESCRIPTION. ONE FOR EACH
0	(0)	SIGNED	4	(0)	ENTRY TO BE ASSIGNED.
0	(0)	BITSTRING	1	ETDEX	INDEX FOR THIS ENTRY
1	(1)	BITSTRING	1	ETDFLG	FLAG BYTE
		1...		ETDSUP	"X'80'" PROGRAM EXECUTION STATE 0= PROBLEM STATE 1= SUPERVISOR STATE.
		.1..		ETDXM	"X'40'" CROSS MEMORY SPACE SWITCH. 0= ENTRY WILL NOT CAUSE A SPACE SWITCH 1= THE PROGRAM WILL EXECUTE IN THE ADDRESS SPACE OF THE CREATOR OF THE ENTRY TABLE WITH THE AUTHORIZATION OF THAT ADDRESS SPACE.
		..11 1111		ETDBRS3F	"X'3F'" RESERVED. BITS 3-8 MUST BE ZERO.
2	(2)	SIGNED	2	ETDRS002	RESERVED. MUST BE ZERO
4	(4)	CHARACTER	8	ETDPRO(0)	PROGRAM NAME TO BE INVOKED OR VIRTUAL ADDRESS OF PROGRAM ENTRY POINT. IF A PROGRAM NAME, THE NAMED PROGRAM MUST BE ON THE ACTIVE LPA QUEUE (FLPA OR MLPA) OR BE IN THE PLPA OR NUCLEUS. IF AN ADDRESS, ETDPRO1 MUST BE ZERO AND ETDPRO2 MUST BE THE ADDRESS.
4	(4)	SIGNED	4	ETDPRO1	FIRST WORD OF ETDPRO
8	(8)	SIGNED	4	ETDPRO2	SECOND WORD OF ETDPRO
		1...		ETDAMODE	"X'80'" IF PROGRAM ADDRESS IS SPECIFIED THIS BIT INDICATES AMODE : IF 1, PC ROUTINE EXECUTES IN 31-BIT MODE. IF 0, PC ROUTINE EXECUTES IN 24-BIT MODE
12	(C)	SIGNED	2	ETDAKM	16 BIT AUTHORIZED KEY MASK. BIT 0 REPRESENTS KEY 0, ETC. IF A BIT IS ON, THE CORRESPONDING KEY IS AUTHORIZED TO CALL THIS ENTRY.
12	(C)	BITSTRING	0	ETDAK0	"X'8000'" MASK FOR KEY 0
12	(C)	BITSTRING	0	ETDAK1	"X'4000'" MASK FOR KEY 1
12	(C)	BITSTRING	0	ETDAK2	"X'2000'" MASK FOR KEY 2
12	(C)	BITSTRING	0	ETDAK3	"X'1000'" MASK FOR KEY 3
12	(C)	BITSTRING	0	ETDAK4	"X'0800'" MASK FOR KEY 4
12	(C)	BITSTRING	0	ETDAK5	"X'0400'" MASK FOR KEY 5
12	(C)	BITSTRING	0	ETDAK6	"X'0200'" MASK FOR KEY 6

Table 827. Structure ETDELE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	BITSTRING	0	ETDAK7	"X'0100'" MASK FOR KEY 7
		1...		ETDAK8	"X'0080'" MASK FOR KEY 8
		.1..		ETDAK9	"X'0040'" MASK FOR KEY 9
		..1.		ETDAKA	"X'0020'" MASK FOR KEY 10
		...1		ETDAKB	"X'0010'" MASK FOR KEY 11
		.... 1...		ETDAKC	"X'0008'" MASK FOR KEY 12
		.... .1..		ETDAKD	"X'0004'" MASK FOR KEY 13
		.... ..1.		ETDAKE	"X'0002'" MASK FOR KEY 14
		1		ETDAKF	"X'0001'" MASK FOR KEY 15
14	(E)	SIGNED	2	ETDEKM	16 BIT ENTRY KEY MASK. BIT 0 REPRESENTS KEY 0, ETC. IF A BIT IS ON, THE CALLED PROGRAM WILL BE AUTHORIZED TO USE THE CORRESPONDING KEY.
14	(E)	BITSTRING	0	ETDEK0	"X'8000'" MASK FOR KEY 0
14	(E)	BITSTRING	0	ETDEK1	"X'4000'" MASK FOR KEY 1
14	(E)	BITSTRING	0	ETDEK2	"X'2000'" MASK FOR KEY 2
14	(E)	BITSTRING	0	ETDEK3	"X'1000'" MASK FOR KEY 3
14	(E)	BITSTRING	0	ETDEK4	"X'0800'" MASK FOR KEY 4
14	(E)	BITSTRING	0	ETDEK5	"X'0400'" MASK FOR KEY 5
14	(E)	BITSTRING	0	ETDEK6	"X'0200'" MASK FOR KEY 6
14	(E)	BITSTRING	0	ETDEK7	"X'0100'" MASK FOR KEY 7
		1...		ETDEK8	"X'0080'" MASK FOR KEY 8
		.1..		ETDEK9	"X'0040'" MASK FOR KEY 9
		..1.		ETDEKA	"X'0020'" MASK FOR KEY 10
		...1		ETDEKB	"X'0010'" MASK FOR KEY 11
		.... 1...		ETDEKC	"X'0008'" MASK FOR KEY 12
		.... .1..		ETDEKD	"X'0004'" MASK FOR KEY 13
		.... ..1.		ETDEKE	"X'0002'" MASK FOR KEY 14
		1		ETDEKF	"X'0001'" MASK FOR KEY 15
16	(10)	CHARACTER	4	ETDPAR	PARAMETER TO BE PASSED TO THE CALLED PROGRAM.
20	(14)	BITSTRING	1	ETDOPTB1	ETD OPTIONS BYTE 1
		1...		ETDPCTC	"X'80'" PC-TYPE CONTROL 0= BASIC PC 1= STACKING PC
		.1..		ETDEAM	"X'40'" Extended addressing mode 0= Not AMODE 64 1= AMODE 64
		..1.		ETDBRS20	"X'20'" RESERVED. BIT MUST BE ZERO.
		...1		ETDPKC	"X'10'" PSW KEY CONTROL 0= PSW KEY UNCHANGED 1= REPLACE PSW KEY WITH ETDEK
		.... 1...		ETDPKMC	"X'08'" PSW KEY MASK CONTROL 0= OR ETDEKM WITH PKM 1= REPLACE PKM WITH ETDEKM
		.... .1..		ETDEAXC	"X'04'" EAX CONTROL 0= NO EAX CHANGE 1= REPLACE EAX WITH ETDEAX
		.... ..1.		ETDASC	"X'02'" ADDR SPACE CONTROL (PSW BITS 16-17) 0= PRIMARY MODE (00) 1= AR MODE (01)

Table 827. Structure ETDELE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		ETDSASNC	"X'01'" SASN CONTROL 0= SET SASN TO OLD PASN 1= SET SASN TO NEW PASN
21	(15)	BITSTRING	1	ETDEK	ENTRY KEY (HIGH ORDER 4 BITS)
22	(16)	SIGNED	2	ETDEAX	EXTENDED AUTHORIZATION INDEX
24	(18)	CHARACTER	8	ETDARR(0)	ASSOCIATED RECOVERY ROUTINE NAME OR ADDRESS OF ARR ENTRY POINT. IF AN ARR NAME, THE NAMED PROGRAM MUST BE ON THE ACTIVE LPA QUEUE (FLPA OR MLPA) OR BE IN THE PLPA OR NUCLEUS. IF AN ADDRESS, ETDARR1 MUST BE ZERO AND ETDARR2 MUST BE THE ADDRESS.
24	(18)	SIGNED	4	ETDARR1	FIRST WORD OF ETDARR
28	(1C)	SIGNED	4	ETDARR2	SECOND WORD OF ETDARR
32	(20)	BITSTRING	4	ETDPAR2	USER PARAMETER 2
36	(24)	SIGNED	4	ETDLPAFL(0)	FLAGS FOR LPA
36	(24)	BITSTRING	1	ETDLPAB1	FIRST BYTE OF FLAGS
		1...		ETDCANCL	"X'80'" CANCEL OPTION FOR ARR 0 => CANCEL=YES (DEFAULT). 1 => CANCEL=NO
		.1..		ETDASYNC	"X'40'" ASYNCH OPTION FOR ARR 0 => ASYNCH=YES (DEFAULT). 1 => ASYNCH=NO
		..1.		ETDARRC	"X'20'" ARRCOND OPTION FOR ARR 0 => ARRCOND=NO (DEFAULT). 1 => ARRCOND=YES
		...1 1111		ETDRS1	"X'1F'" RESERVED - MUST BE ZERO.
37	(25)	BITSTRING	3	ETDLPAB2	RESERVED - MUST BE ZERO
40	(28)	SIGNED	4	ETDEEND(0)	END OF ENTRY TABLE DESCRIPTOR
40	(28)	X'28'	0	ETDELEN	"ETDEEND-ETDELE" LENGTH OF ENTRY DESCRIPTOR ELEMENT

Table 828. Cross Reference for ETD1

Name	Offset	Hex Tag
ETD	0	
ETDAKA	C	20
ETDAKB	C	10
ETDAKC	C	8
ETDAKD	C	4
ETDAKE	C	2
ETDAKF	C	1
ETDAKM	C	
ETDAK0	C	8000
ETDAK1	C	4000
ETDAK2	C	2000
ETDAK3	C	1000
ETDAK4	C	800
ETDAK5	C	400
ETDAK6	C	200
ETDAK7	C	100

Table 828. Cross Reference for ETD1 (continued)

Name	Offset	Hex Tag
ETDAK8	C	80
ETDAK9	C	40
ETDAMODE	8	80
ETDARR	18	
ETDARRC	24	20
ETDARR1	18	
ETDARR2	1C	
ETDASC	14	2
ETDASYNC	24	40
ETDBRS20	14	20
ETDBRS3F	1	3F
ETDCANCL	24	80
ETDEAM	14	40
ETDEAX	16	
ETDEAXC	14	4
ETDEEND	28	
ETDEK	15	
ETDEKA	E	20
ETDEKB	E	10
ETDEKC	E	8
ETDEKD	E	4
ETDEKE	E	2
ETDEKF	E	1
ETDEKM	E	
ETDEK0	E	8000
ETDEK1	E	4000
ETDEK2	E	2000
ETDEK3	E	1000
ETDEK4	E	800
ETDEK5	E	400
ETDEK6	E	200
ETDEK7	E	100
ETDEK8	E	80
ETDEK9	E	40
ETDELE	0	
ETDELEN	28	28
ETDEND	2	4
ETDEX	0	
ETDFLG	1	
ETDFLGRS	1	7F
ETDFMT	0	
ETDFMTE	0	1
ETDHFLAG	1	
ETDLEN	2	4
ETDLPAB1	24	
ETDLPAB2	25	
ETDLPAFL	24	
ETDNUM	2	
ETDOPTB1	14	

Table 828. Cross Reference for ETD1 (continued)

Name	Offset	Hex Tag
ETDPAR	10	
ETDPAR2	20	
ETDPCTC	14	80
ETDPKC	14	10
ETDPKMC	14	8
ETDPRO	4	
ETDPRO1	4	
ETDPRO2	8	
ETDRCRD	1	80
ETDRS002	2	
ETDRS1	24	1F
ETDSASNC	14	1
ETDSUP	1	80
ETDXM	1	40

Chapter 199. ETE Information

ETE Heading Information

Common Name:	Entry Table Entry for ESAME
Macro ID:	IHAETE1
DSECT Name:	ETE1
Owning Component:	PC/AUTH (SCXMS)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 255 Key: 0 Residency: PC/Auth LSQA
Size:	32 bytes
Created by:	IEAVXECR, deleted by IEAVXEDE
Pointed to by:	Linkage table entries (mapped by IHALTE). The Entry Table is pointed to by ETIBETR (real address) and ETIBETV (virtual address).
Serialization:	LOCAL lock of the PC/Auth address space
Function:	Describes an entry in an entry table (used by the Program Call instruction). ETE1 maps the ESAME ETE.

ETE mapping

Table 829. Structure ETE1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	32	ETE1	ENTRY TABLE ENTRY DESCRIPTION
0	(0)	ADDRESS	4	ETE1EPA0	First word of EPA when AMODE 64
4	(4)	ADDRESS	4	ETE1EPA	VIRTUAL ADDRESS OF ROUTINE TO RECEIVE CONTROL
4	(4)	CHARACTER	1	ETE1ABYTE	BYTE TO ACCESS ETE1AMODE
		1...		ETE1AMODE	Addressing mode: if 1, routine executes in 31-bit mode. If 0, routine executes in 24-bit mode, unless bit 31 of new PSW=1 in which case 64-BIT
5	(5)	CHARACTER	2	*	PART OF ETE1EPA - NOT REFERENCEABLE
7	(7)	CHARACTER	1	ETE1PBYTE	BYTE TO ACCESS ETE1PS
		1111 111.		*	NOT REFERENCEABLE
		1		ETE1PS	CALLED ROUTINE EXECUTES (0) SUPERVISOR OR (1) PROBLEM STATE
8	(8)	BITSTRING	2	ETE1AKM	MASK OF STORAGE KEYS AUTHORIZED TO INVOKE THIS ROUTINE
10	(A)	BITSTRING	2	ETE1ASID	ASID IN WHICH THE CALLED ROUTINE WILL EXECUTE - IF ZERO, ROUTINE EXECUTES IN CALLERS ADDRESS SPACE SPACE SWITCH IF NOT ZERO

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Table 829. Structure ETE1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	BITSTRING	2	ETE1EKM	KEY MASK TO BE COMBINED WITH CALLERS KEY MASK PRODUCING THE EXECUTION KEY MASK OF THE CALLED ROUTINE
14	(E)	CHARACTER	2	ETE1R00E	RESERVED FIELD
16	(10)	CHARACTER	1	ETE1OPTB1	ETE OPTIONS BYTE
		1...		ETE1PCTC	PC TYPE CONTROL: 0: NON-STACKING. 1: STACKING.
		.1..		ETE1PC64	PC extended addressing mode: 0: PC.31 set to 0 (basic mode) 1: PC.31 set to 1 (64-bit)
		..1.		*	
		...1		ETE1PKC	PSW KEY CONTROL: 0: NO CHANGE 1: SET PSW KEY FROM ETE1EK
		.... 1...		ETE1PKMK	PSW KEY MASK CONTROL: 0: OR ETE1EKM INTO PKM. 1: COPY ETE1EKM TO PKM
		.... .1..		ETE1EAXC	EAX CONTROL: 0: NO CHANGE. 1: REPLACE FROM ETE1EAX.
		.... ..1.		ETE1ASC	ADDRESS SPACE CONTROL: 0: PRIMARY MODE. 1: AR MODE.
		1		ETE1SASNC	SASN CONTROL: 0: SET TO OLD PASN. 1: SET TO NEW PASN.
17	(11)	CHARACTER	1	ETE1EK	ENTRY KEY. (HIGH 4 BITS)
18	(12)	UNSIGNED	2	ETE1EAX	MAS EXTENDED AUTHORITY INDEX
20	(14)	ADDRESS	4	ETE1ASTE	REAL ADDRESS OF THE ASTE IF SPACE SWITCH
24	(18)	CHARACTER	8	ETE1PARM	ADDRESS OF THE LATENT PARAMETER PASSED TO THE CALLED RTN
24	(18)	ADDRESS	4	ETE1PARMH	High half of parameter
28	(1C)	ADDRESS	4	ETE1PARML	Low half of parameter
32	(20)	CHARACTER	0	ETE1END	END OF ETE1

Table 830. Cross Reference for ETE

Name	Offset	Hex Tag
ETE1	0	
ETE1ABYTE	4	
ETE1AKM	8	
ETE1AMODE	4	80
ETE1ASC	10	02
ETE1ASID	A	
ETE1ASTE	14	
ETE1EAX	12	
ETE1EAXC	10	04
ETE1EK	11	
ETE1EKM	C	
ETE1END	20	
ETE1EPA	4	
ETE1EPA0	0	
ETE1OPTB1	10	
ETE1PARM	18	

Table 830. Cross Reference for ETE (continued)

Name	Offset	Hex Tag
ETE1PARMH	18	
ETE1PARML	1C	
ETE1PBYTE	7	
ETE1PCTC	10	80
ETE1PC64	10	40
ETE1PKC	10	10
ETE1PKMK	10	08
ETE1PS	7	01
ETE1R00E	E	
ETE1SASNC	10	01

Chapter 200. ETIB Information

ETIB Heading Information

Common Name:	Entry Table Information Block
Macro ID:	IHAETIB
DSECT Name:	ETIB, ETIX
Owning Component:	PC/AUTH (SCXMS)
Eye-Catcher ID:	ETIB Offset: 0 Length: 4
Storage Attributes:	Subpool: 229 Key: 0 Residency: PC/AUTH PRIVATE AREA
Size:	ETIB -- 48 bytes ETIX -- 56 bytes
Created by:	IEAVXECR. The extensions are created by IEAVXECO. The information block for the PC/AUTH entry table is created by IEAVXMAS.
Pointed to by:	XMDETIBF and XMDETIBL, ETIBNEXT and ETIBBACK
Serialization:	LOCAL lock of the PC/AUTH address space
Function:	Contains information describing one entry table.

ETIB mapping

Table 831. Structure ETIB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	48	ETIB	ENTRY TABLE INFORMATION BLOCK - DESCRIBES THE ASSOCIATED ENTRY TABLE
0	(0)	CHARACTER	4	ETIBETIB	ETIB ACRONYM
4	(4)	ADDRESS	4	ETIBASCB	POINTER TO THE ASCB OWNING THE ENTRY TABLE
8	(8)	ADDRESS	4	ETIBNEXT	FORWARD LINK FOR ETIB QUEUE
12	(C)	ADDRESS	4	ETIBBACK	BACK LINK FOR ETIB QUEUE
16	(10)	ADDRESS	4	ETIBETR	REAL ADDRESS OF THE ASSOCIATED ENTRY TABLE. THE LENGTH INDICATOR IS IN BITS 26 -31. (NO. ENTRIES/4 - 1)
20	(14)	ADDRESS	4	ETIBETV	VIRTUAL ADDRESS OF THE ASSOCIATED ENTRY TABLE
24	(18)	ADDRESS	4	ETIBLPAD	ADDRESS OF LATENT PARAMETER AREA <16M
28	(1C)	UNSIGNED	4	ETIBLPLN	LENGTH OF LATENT PARAMETER AREA <16M
32	(20)	ADDRESS	4	ETIBELPA	ADDRESS OF LATENT PARAMETERS IN EXTENDED STORAGE
36	(24)	UNSIGNED	4	ETIBELPL	LENGTH OF LATENT PARAMETERS IN EXTENDED STORAGE
40	(28)	BITSTRING	1	ETIBRSV3	RESERVED
41	(29)	BITSTRING	1	ETIBFLGS	FLAGS BYTE

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Table 831. Structure ETIB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		ETIBSYS	ENTRY TABLE IS A SYSTEM TABLE
		.1..		ETIBSS	TABLE HAS SPACE SWITCH ENTRIES
		..1.		ETIBCIL	CONNECTION INFORMATION HAS BEEN LOST. CANNOT FREEMAIN THE ENTRY TABLE.
		...1		ETIBEAX	ENTRY TABLE CONTAINS NON-ZERO EAX VALUES.
		.... 1...		ETIBSASN	ALL ENTRIES IN THE ENTRY TABLE HAVE THE SASN CONTROL BIT ON (ETESASNC) INDICATING SASN=NEW PASN.
		.... .1..		ETIBDEST	This entry table has been destroyed.
		.... ..1.		ETIBRCRD	When 1, no recording of crossing memory binds is to take place.
		1		ETIBREUS	Reusable
42	(2A)	UNSIGNED	2	ETIBCNCT	COUNT OF CONNECTIONS TO THIS ENTRY TABLE (FOR A SYSTEM ENTRY TABLE, THIS VALUE WILL BE X'FFFF'.)
44	(2C)	ADDRESS	4	ETIBFEXT	POINTER TO FIRST EXTENSION - CONTAINS CONNECTION INFORMATION

Table 832. Structure ETIX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	96	ETIX	EXTENSION BLOCK
0	(0)	CHARACTER	4	ETIXETIX	ACRONYM ETIX
4	(4)	CHARACTER	4	ETIXRESV	RESERVED FIELD
8	(8)	UNSIGNED	2	ETIXSLOT	COUNT OF CONNECTION SLOTS IN THIS EXTENSION (10)
10	(A)	UNSIGNED	2	ETIXFREE	FREE SLOT COUNT
12	(C)	ADDRESS	4	ETIXEXT	POINTER TO THE NEXT EXTENSION OF THE ETIB. CONTAINS CONNECTION INFORMATION
16	(10)	CHARACTER	8	ETIXCD(10)	CONNECTION DESCRIPTIONS, ONE ENTRY PER CONNECTION
16	(10)	UNSIGNED	2	ETIXASID	ASID OF ADDRESS SPACE CONNECTED TO THIS ENTRY TABLE
18	(12)	CHARACTER	2	*	Reserved
20	(14)	UNSIGNED	4	ETIXLX	LXAT Index OF THIS ET IN LINKAGE TABLE OF ABOVE ASID. INDEX IS 24 BITS, RIGHT JUSTIFIED

Table 833. Cross Reference for ETIB

Name	Offset	Hex Tag
ETIB	0	
ETIBASCB	4	
ETIBBACK	C	
ETIBCIL	29	20
ETIBCNCT	2A	

Table 833. Cross Reference for ETIB (continued)

Name	Offset	Hex Tag
ETIBDEST	29	04
ETIBEAX	29	10
ETIBELPA	20	
ETIBELPL	24	
ETIBETIB	0	
ETIBETR	10	
ETIBETV	14	
ETIBFEXT	2C	
ETIBFLGS	29	
ETIBLPAD	18	
ETIBLPLN	1C	
ETIBNEXT	8	
ETIBRCRD	29	02
ETIBREUS	29	01
ETIBRSV3	28	
ETIBSASN	29	08
ETIBSS	29	40
ETIBSYS	29	80
ETIX	0	
ETIXASID	10	
ETIXCD	10	
ETIXETIX	0	
ETIXEXT	C	
ETIXFREE	A	
ETIXLX	14	
ETIXRESV	4	
ETIXSLOT	8	

Chapter 201. ETIORB Information

ETIORB Heading Information

Common Name:	DSAB/TIOT Entry Build Routine Request Block
Macro ID:	IEFZB430
DSECT Name:	ETIOTREQ
Owning Component:	Allocation/Unallocation (SC1B4)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: 230 Key: KEY 1 Residency: ANY
Size:	64 bytes (decimal)
Created by:	Callers of DSAB/TIOT entry build routine
Pointed to by:	Parameter list to IEFAB428
Serialization:	None
Function:	Contains input data required for the DSAB/TIOT entry build routine. This input consists of: 1) An indication of the function to be performed, i.e. build, update, move, count or replace 2) Information to be placed in the DSAB and TIOT DD entry 3) Address of the JSCB which locates the DSAB chain and TIOT 4) An error reason code return area 5) Address of the DSAB 6) Address of the dummy UCB 7) The number of non-dummy UCB entries in a TIOT

ETIORB mapping

Table 834. Structure ETIOTREQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	64	ETIOTREQ	REQUEST BLOCK
0	(0)	BITSTRING	2	EREQMAP	FUNCTION MAP
		1...		EREQBLD	CREATE DSAB/TIOT ENTRY
		.1..		EREQUPD	UPDATE EXISTING TIOT DD ENT.
		..1.		EREQMOVE	MOVE TIOT DD ENTRY
		...1		EREQCNT	COUNT NON-DUMMY UCB ENTRIES IN TIOT
		.... 1...		EREQREPL	Replace the last real UCB with the dummy UCB
		.... .1..		EREQDSAA	Propagation bit for SVC 99 request for DSAB above the 16MB line. Set by: IEFAB421 IEFAB42A IEFAB434 Read by: IEFAB428
		.... ..1.		EREQDSABDEFERQUEUE	Indicates that common alloc should build the DSAB and DSAM entry but not queue them. Set by: IEFAB421 Read by: IEFAB428
0	(0)	BITSTRING	1	*	RESERVED
2	(2)	BITSTRING	2	EREQSTAT	STATUS INDICATORS

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Table 834. Structure ETIOTREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		EREQTERM	REQUEST IS 'TERM=TS'
		.1..		EREQQNM	REQUEST IS 'QNAME'
		..1.		EREQVAM	VAM DATA SET
		...1		EREQUNAL	UNALLOCATE WHEN CLOSED
		.... 1...		EREQPASS	PASS/RETAIN IND.
		.... .1..		*	Reserved, was EREQJSCT
		.... ..1.		EREQCATL	DATA SET IS A CATALOG
		1		EREQXTIO	XTIOT ENTRY REQUIRED
3	(3)	1...		EREQNCAP	ACTUAL UCBS REQUESTED
		.1..		EREQSUBS	Subsystem name is to be associated with the DD
		..11 1111		*	RESERVED
4	(4)	CHARACTER	8	EREQDDNM	DDNAME OF ALLOCATION REQUEST
12	(C)	CHARACTER	3	EREQJSVA	JFCB SVA
15	(F)	CHARACTER	1	*	
16	(10)	CHARACTER	3	EREQSSVA	SIOT SVA
19	(13)	CHARACTER	1	*	
20	(14)	ADDRESS	4	EREQSIOT	PTR TO SIOT
24	(18)	ADDRESS	4	EREQUCB	PTR TO ALLOCATED UCB
28	(1C)	SIGNED	2	EREQRPOS	RELATIVE DEV. ENTRY POSITION
30	(1E)	SIGNED	2	EREQDEVS	NO. DEVICES FOR THIS ENTRY
32	(20)	CHARACTER	4	EREQSSNM	Subsystem name
36	(24)	ADDRESS	4	EREQJSCB	PTR TO JSCB
40	(28)	SIGNED	2	EREQCODE	ERROR REASON CODE
42	(2A)	SIGNED	2	*	RESERVED
44	(2C)	ADDRESS	4	EREQDSAB	PTR TO DSAB
48	(30)	ADDRESS	4	EREQDUCB	ADDRESS OF DUMMY UCB
52	(34)	SIGNED	4	EREQCNT#	NO. OF NON-DUMMY UCB'S
56	(38)	ADDRESS	4	EREQCPTR	Captured ucb PoinTeR. - Set by IEFAB428 when it Captures a 31-bit UCB. - Checked by IEFAB434 when a DADSM error is encountered and the subject device is not going to be allocated. IEFAB434 will perform an Uncapture for this condition.
60	(3C)	CHARACTER	4	*	Not used and available.

Table 835. Cross Reference for ETIORB

Name	Offset	Hex Tag
EREQBLD	0	80
EREQCATL	2	02
EREQCNT	0	10
EREQCNT#	34	
EREQCODE	28	
EREQCPTR	38	
EREQDDNM	4	
EREQDEVS	1E	
EREQDSAA	0	04
EREQDSAB	2C	
EREQDSABDEFERQUEUE	0	02

Table 835. Cross Reference for ETIORB (continued)

Name	Offset	Hex Tag
EREQDUCB	30	
EREQJSCB	24	
EREQJSVA	C	
EREQMAP	0	
EREQMOVE	0	20
EREQNCAP	3	80
EREQPASS	2	08
EREQQNM	2	40
EREQREPL	0	08
EREQRPOS	1C	
EREQSIOT	14	
EREQSSNM	20	
EREQSSVA	10	
EREQSTAT	2	
EREQSUBS	3	40
EREQTERM	2	80
EREQUCB	18	
EREQUNAL	2	10
EREQUPD	0	40
EREQVAM	2	20
EREQXTIO	2	01
ETIOTREQ	0	

Chapter 202. EVNT Information

EVNT Heading Information

Common Name:	Event Table
Macro ID:	IHAEVNT
DSECT Name:	EVNT
Owning Component:	Task Manager (SC1CL)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 253 Key: 0
Size:	40 plus the number of EVENT entries requested by the user
Created by:	IEAVEVT1
Pointed to by:	TCBEVENT field of the TCB data area TCBEXTZT field of the TCB data area(first EVNT) EVNTLNK field of the EVNT data area(next EVNT)
Serialization:	LOCAL lock
Function:	Contains pointers to EVENTS type ECBs that have completed and information that will be used by POST to take the user out of the wait state.

EVNT mapping

Table 836. Structure EVNT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EVNT	
0	(0)	DBL WORD	8	EVNTBEGN(0)	BEGINING OF EVENT TABLE
0	(0)	DBL WORD	8	EVNTHEDR(0)	EVENT TABLE HEADER
0	(0)	ADDRESS	4	EVNTLNK	EVENT TABLE QUEUE LINK PTR
4	(4)	ADDRESS	4	EVNTTCBP	TCB POINTER
8	(8)	ADDRESS	4	EVNTRBP	WAITING RB POINTER
12	(C)	ADDRESS	4	EVNTFST	PTR TO FIRST EVENT ENTRY
16	(10)	ADDRESS	4	EVNTLST	PTR TO LAST ENTRY OF TABLE
20	(14)	ADDRESS	4	EVNTLSTA	PTR TO LAST ACTIVE EVENT ENTRY IN TABLE
24	(18)	ADDRESS	1	EVNTFLG1	EVENT TABLE FLAGS
		1...		EVNTUPR	"X'80'" UPDATE EVENT TABLE INDICATOR
25	(19)	ADDRESS	3	EVNTLNTH	LENGTH OF EVENT TABLE
28	(1C)	ADDRESS	4	EVNTRES2	RESERVED
32	(20)	ADDRESS	4	EVNTRES3	RESERVED
36	(24)	ADDRESS	4	EVNTDUMY	DUMMY EVENT ENTRY
40	(28)	ADDRESS	4	EVNTHEND(0)	END OF EVENT TABLE HEADER
40	(28)	ADDRESS	4	EVNTENTY(0)	EVENT ENTRY
40	(28)	ADDRESS	4	EVNTENTA(0)	31-BIT POINTER TO POSTED ECB
40	(28)	ADDRESS	1	EVNTFLGS	EVENT ENTRY FLAGS
		1...		EVNTENDL	"X'80'" END OF LIST INDICATOR
41	(29)	ADDRESS	3	EVNTENTP	24-BIT PTR TO POSTED ECB

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EVNT mapping

Table 837. Cross Reference for EVNT

Name	Offset	Hex Tag
EVNT	0	
EVNTBEGN	0	
EVNTDUMY	24	
EVNTENDL	28	80
EVNTENTA	28	
EVNTENTP	29	
EVNTENTY	28	
EVNTFLGS	28	
EVNTFLG1	18	
EVNTFST	C	
EVNTHEDR	0	
EVNTHEND	28	
EVNTLNK	0	
EVNTLNTH	19	
EVNTLST	10	
EVNTLSTA	14	
EVNTRBP	8	
EVNTRES2	1C	
EVNTRES3	20	
EVNTTCBP	4	
EVNTUPR	18	80

Chapter 203. EWA Information

EWA Heading Information

Common Name: EWA - Error Recovery Procedure Work Area
Macro ID: EWAMAP
DSECT Name: EWA
Owning Component: IOS (SC1C3)
Eye-Catcher ID: EWA
Offset: 228
Length: 4
Storage Attributes: Main Storage: YES
Virtual Storage: n/a
Auxiliary Storage: n/a
Subpool: 226 (below 16MB block), 245 (above 16MB block)
Key: 0
Residency: Above or below the 16MB line
Size: 248 bytes
Created by: IOS IRB analysis or IOS Post Status modules.
Pointed to by: IOSERP
Serialization: None
Function: Procedure work area common section:
- the common section consists of
indicators, counters and sense information
- the ERP dependent sections are available
for ERP use as needed

EWA mapping

Table 838. Structure EWA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	248	EWA	
0	(0)	ADDRESS	4	EWAHDR	EWA HEADER
0	(0)	ADDRESS	4	EWAEXT	ADDRESS OF WA EXTENTION THIS FIELD MUST BE ZERO OR POINT TO A BLOCK OBTAINED FROM THE IOS STORAGE MANAGER
4	(4)	CHARACTER	4	EWAFLAGS	FOUR BYTES OF FLAGS
4	(4)	BITSTRING	1	EWAFLG1	FLAG BYTE 1
		1...		EWASLIS	IF ON, INDICATES SKIP SENSE PROCESSING ACTIVE
		.1..		EWAAPR	IF ON, ALTERNATE PATH RETRY NEEDED
		..1.		EWAREPET	REPEAT USAGE OF THIS EWA FOR A REQUEST. (ZERO ONLY ON FIRST ENTRY

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Table 838. Structure EWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		EWAXTRCD	ERROR RECORDED BY EXIT ROUTINE. CAN BE USED TO COMMUNICATE BETWEEN A DEVICE DEPENDENT EXIT ROUTINE WHICH IS RECORDING AN ERROR AND THE ERP, SO THE ERP DOES NOT RECORD THE SAME ERROR. SET TO 0 BY IOS ONLY WHEN THE EWA IS OBTAINED. IT IS THE RESPONSIBILITY OF THE ERP OR DEVICE DEPENDENT EXIT TO RESET THIS FIELD ONCE IT HAS BEEN SET ON.
		.... 11..		EWASCCD	START SUBCHANNEL DEFERRED CONDITION CODE ON SENSE OPERATION IF THIS IS A UNIT CHECK. (ONLY 0,1 AND 3 ARE VALID)
		.... 11..		EWASCC3	DEFERRED CONDITION CODE 3
		.... 1...		*	RESERVED
		.... .1..		EWASCC1	DEFERRED CONDITION CODE 1 SEE END OF EWA FOR CC 0
		.... ..1.		EWADDMSG	ERP DEPENDENT DATA TO BE INCLUDED IN I/O ERROR MESSAGE
		1		EWABDSNS	IF ON, INDICATES SENSE DATA INVALID
5	(5)	BITSTRING	1	EWAFLG2	FLAG BYTE 2
		1...		EWAMDR	IF ON, MDR REQUEST. IF OFF, OBR REQUEST.
		.1..		EWAWTEMP	ON - TEMPORARY WRITE ERR COUNTER TO BE UPDATE IF DATA CHECK CONDITION. OFF - TEMPORARY READ ERR COUNTER TO BE UPDATED.
		..1.		EWACOVF	COUNTER OVERFLOW INDICATOR FOR STATISTICS UPDATE
		...1		EWAERPRT	ON, THE ERP REQUESTS THAT IOSB COMPLETION CODES X'41' TO X'5F' BE RETURNED TO ERP WITH THE IOSERR BIT SET IN THE IOSB
		.... 1...		EWARCBLT	OBR RECORD BUILT BY CALLER
		.... .1..		EWALBUSY	IF ON, LONG BUSY UNIT CHECK
		.... ..1.		EWAFSAVF	Failing storage address in EWAFSA is valid
		1		*	RESERVED
6	(6)	BITSTRING	1	EWAFLG3	FOR DEVICE DEPENDENT ERP USAGE
		1...		EWAJAM	3800 PAPER JAM
		.111 1111		*	RESERVED
7	(7)	BITSTRING	1	EWASNSCT	LOOP COUNT FOR SENSE FAILURE
8	(8)	BITSTRING	2	EWASSTAT	CSW STATUS ON SENSE OPERATION IF THIS IS A UNIT CHECK
10	(A)	CHARACTER	4	EWACNTRS	COUNTERS FOR ERP USE
10	(A)	ADDRESS	1	EWACNTR1	COUNTER 1
11	(B)	ADDRESS	1	EWACNTR2	COUNTER 2
12	(C)	ADDRESS	1	EWACNTR3	COUNTER 3
13	(D)	ADDRESS	1	EWACNTR4	COUNTER 4

Table 838. Structure EWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
14	(E)	CHARACTER	2	EWASTUP	STATISTICS INFORMATION FOR UPDATING STATISTICS
16	(10)	CHARACTER	8	EWAERPIB	ERPIB BUILT BY SLH FOR CHANNEL ERRORS. INFORMATION FOR ERP USE. VALID WHENEVER THERE IS A CCC, CDC, ICC, OR MEASUREMENT-BLOCK CHECK (L BIT =1 IN IOSB). Note: For the following other conditions, the LPUM field will be valid and all other fields of the ERPIB will be zero: - Unit Check - Intercept - Channel program check - Channel protection check In all other cases, the ERPIB will be zero.
16	(10)	BITSTRING	1	EWACFSTB	FIRST BYTE OF THE EXTENDED STATUS WORD. (SEE IHAESW)
		1...		*	RESERVED
		.111 1111		EWACECF	ERROR CHECK FLAGS
		.1..		EWACKEY	IF ON, INDICATES CBC ERROR ON KEY VS STORAGE. MEANINGFUL FOR CDC, MEASUREMENT- BLOCK DATA CHECK, OR CCC WITH CCW OR IDAW CHECK.
		..1.		EWACMBPG	IF ON, MEASUREMENT-BLOCK PROGRAM CHECK. MEASUREMENT- BLOCK ENTRY HAS AN INVALID ABSOLUTE ADDRESS.
		...1		EWACMBDC	IF ON, MEASUREMENT- BLOCK DATA CHECK. THE MEASUREMENT-BLOCK PARAMETERS OR THE ASSOCIATED KEY HAVE AN INVALID CBC.
		.... 1...		EWACMBPT	IF ON, MEASUREMENT- BLOCK PROTECTION CHECK. KEY USED BY CHANNEL DOESN'T MATCH MEASUREMENT-BLOCK (STORAGE) KEY.
		.... .1..		EWACCCWC	IF ON, CBC ERROR WHILE FETCHING A CCW. CHANNEL CONTROL CHECK WILL ALSO BE ON.
		.... ..1.		EWACIDAW	IF ON, CBC ERROR WHILE FETCHING AN IDAW. CHANNEL CONTROL CHECK WILL ALSO BE ON.
		1		EWACALC	IF ON, ADDRESS LIMIT FAILURE WHILE EXECUTING THE LAST CHANNEL PROGRAM. CHANNEL CONTROL CHECK WILL ALSO BE ON.
17	(11)	BITSTRING	1	EWAERWF	ERW FLAGS
		1...		EWA2CCWV	SECONDARY CCW ADDRESS VALID
		.111 1111		*	RESERVED
18	(12)	BITSTRING	1	EWAERW2	Byte 2 of the Extended Report Word (ERW)
		1...		EWAOBE	Extended exception status is associated with the operation block
		.1..		EWARBS	Extra exception status has been stored.

Table 838. Structure EWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..11 1111		*	RESERVED
19	(13)	CHARACTER	1	*	RESERVED
20	(14)	BITSTRING	1	EWARGFG1	FLAG BYTE
		1...		EWACSIO	ALWAYS 0. INDICATES STATUS WAS NOT STORED AFTER A START SUBCHANNEL COMMAND.
		.1..		EWACINT	ALWAYS 1. INDICATES STATUS STORED FOLLOWING AN I/O INTERRUPT FOR START SUBCHANNEL.
		..1.		EWACTIO	ALWAYS 0. INDICATES STATUS WAS NOT STORED AFTER A TEST SUBCHANNEL COMMAND.
		...1		EWACHIO	ALWAYS 0. INDICATES STATUS WAS NOT STORED AFTER A HALT SUBCHANNEL COMMAND.
		.... 1...		EWAITO	INTERFACE TIMEOUT DETECTED
		.... .1..		EWACSNS	SENSE DATA WAS STORED
		.... ..1.		EWACCNT	CSW COUNT IS VALID
		1		EWANORTY	IF ON, OPERATION CANNOT BE RETRIED.
21	(15)	BITSTRING	1	EWALPUM	LAST PATH USED MASK (LPUM). THIS FIELD IS COPIED FROM THE EXTENDED STATUS WORD IF THE LPUM SETTING IS CONSISTENT WITH THE OTHER LOGOUT INDICATIONS.
22	(16)	BITSTRING	1	EWAXCSW1	VALIDITY INDICATORS
		1...		*	RESERVED
		.111 11..		EWACFVF	FIELD VALIDITY FLAGS
		.1..		EWACLPUV	LAST PATH USED MASK FIELD IS CONSISTENT WITH THE OTHER LOGOUT INDICATIONS
		..1.		EWACTCV	TERMINATION CODE IS VALID
		...1		EWACSQV	SEQUENCE CODE IS VALID
		.... 1...		EWACUNS	DEVICE STATUS IS VALID
		.... .1..		EWACCMD	CCW/TCW address is valid
		.... ..1.		EWACCHV	ALWAYS 1. INDICATES THE DEVICE NUMBER IS VALID.
		1		EWACDAV	ALWAYS 1. INDICATES THE DEVICE NUMBER IS VALID.
23	(17)	BITSTRING	1	EWAXCSW2	TERMINATION AND SEQUENCE CODES
		11..		EWACTEC	TERMINATION CODE - SEE BELOW FOR VALUES
		..1.		EWAD	DEVICE STATUS CHECK
		...1		EWAE	SECONDARY ERROR INDICATION
		.... 1...		EWACDIN	I/O ERROR ALERT
		.... .111		EWACSEQ	SEQUENCE CODES - SEE BELOW FOR VALUES
24	(18)	CHARACTER	2	EWACHA	DEVICE NUMBER ON WHICH I/O WAS STARTED
26	(1A)	BITSTRING	1	EWAFLGA	FLAGS FOR IOS INTERNAL USE
		1111		*	RESERVED
		 1111		EWADDE	BITS RESERVED FOR DEVICE DEPENDENT EXITS

Table 838. Structure EWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
27	(1B)	BITSTRING	1	EWAPATHS	PATHS TO BE USED FOR RETRY I/O. ONLY USED IF EWAAPR IS ON.
28	(1C)	ADDRESS	4	EWADRCW	ADDR OF RECORD CONTROL TABLE (VALID ONLY IF EWARCBLT=1)
28	(1C)	CHARACTER	1	EWADCNT	NUMBER OF BYTES OF OBR INFO
29	(1D)	ADDRESS	3	EWADDISP	ADDR OF OBR DEVICE DEPENDENT INFORMATION (EWARCBLT=0)
32	(20)	CHARACTER	184	EWAIERP	AREA FOR INDIVIDUAL ERPS
216	(D8)	CHARACTER	8	EWAFSA	When EWAFSAVF is one, contains the failing storage (real) address. This is valid for channel control checks, channel data checks, channel program checks (FCX), and protection checks (FCX).
216	(D8)	ADDRESS	4	EWAFSAH	High order word of FSA
216	(D8)	ADDRESS	4	EWASMADR	No longer used
220	(DC)	ADDRESS	4	EWAFSAL	Low order word of FSA
220	(DC)	BITSTRING	4	EWASMFLG	No longer used
224	(E0)	SIGNED	2	EWARSVD1	Reserved
224	(E0)	SIGNED	2	EWASMRC	No longer used
226	(E2)	BITSTRING	1	EWAPFCMD	Failing command code within the prefix area, otherwise zero
227	(E3)	BITSTRING	1	EWAVPATH	PATH MASK OF CHANNEL PATHS TO BE VARIED OFFLINE
228	(E4)	CHARACTER	4	EWAID	EBCDIC ACRONYM FOR EWA
232	(E8)	CHARACTER	4	EWAESW	EXTENDED STATUS WORD
236	(EC)	BITSTRING	2	EWAQTIME	IOS TIME VALUE WHEN I/O REQUEST WAS PLACED ON IOQ QUEUE (CONVERTED FROM IOQIOTCT)
238	(EE)	UNSIGNED	1	EWASNSRD	Lesser of the number of sense bytes actually read from the device and the number of sense bytes expected. The UCBSNSCT field contains the number of bytes that IOS expected the device to return and is set by the UIM. This field is not valid if EWABDSNS is set.
239	(EF)	UNSIGNED	1	EWASSID	Subchannel Set ID
240	(F0)	ADDRESS	4	EWASLH	POINTER TO SLH STORAGE
244	(F4)	ADDRESS	4	EWAERPCR	ERP CLEANUP ROUTINE ADDRESS

Table 839. Structure EWADDIOS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	STRUCTURE	80	EWADDIOS	
32	(20)	CHARACTER	64	EWASNS	SENSE DATA START
96	(60)	CHARACTER	12	*	RESERVED
108	(6C)	CHARACTER	4	EWA2CSW	2nd CCW translation address
112	(70)	CHARACTER	0	EWAEND	END OF EWA

EWA mapping

Table 840. Constants for EWA

Len	Type	Value	Name	Description
	CONSTANTS FOR EWASCCD			
1	HEX	00	EWASCC0	DEFERRED CONDITION CODE 0
	CONSTANTS FOR EWASNSCT			
1	HEX	FF	EWASCTMX	MAXIMUM NUMBER OF SENSES TRIED.
	CONSTANTS FOR EWACTEC			
0	BIT	00	EWATER0	INTERFACE DISCONNECT
0	BIT	01	EWATER1	STOP, STACK, OR NORMAL TERM
0	BIT	10	EWATER2	SELECTIVE RESET
	CONSTANTS FOR EWACSEQ			
0	BIT	000	EWACSEQ0	RESERVED
0	BIT	001	EWACSEQ1	COMMAND SENT BUT STATUS NOT ANALYZED
0	BIT	010	EWACSEQ2	COMMAND ACCEPTED BY DEVICE BUT NO DATA HAS BEEN TRANSFERRED
0	BIT	011	EWACSEQ3	AT LEAST ONE BYTE OF DATA HAS BEEN TRANSFERRED
0	BIT	100	EWACSEQ4	COMMAND NOT SENT OR SENT BUT NOT YET ACCEPTED
0	BIT	101	EWACSEQ5	COMMAND HAS BEEN ACCEPTED BUT DATA TRANSFER UNPREDICTABLE
0	BIT	110	EWACSEQ6	RESERVED
0	BIT	111	EWACSEQ7	RESERVED
	CONSTANTS FOR CONTROL BLOCK IDENTIFIER			
4	CHARACTER	EWA	EWACID	CONTROL BLOCK IDENTIFIER

Table 841. Cross Reference for EWA

Name	Offset	Hex Tag
EWA	0	
EWAAPR	4	40
EWABDSNS	4	01
EWACALC	10	01
EWACCCWC	10	04
EWACCHV	16	02
EWACCMD	16	04
EWACCNT	14	02
EWACDAV	16	01
EWACDIN	17	08
EWACECF	10	7F
EWACFSTB	10	
EWACFVF	16	7C
EWACHA	18	
EWACHIO	14	10
EWACIDAW	10	02
EWACINT	14	40
EWACKEY	10	40
EWACLPUV	16	40
EWACMBDC	10	10

Table 841. Cross Reference for EWA (continued)

Name	Offset	Hex Tag
EWACMBPG	10	20
EWACMBPT	10	08
EWACNTRS	A	
EWACNTR1	A	
EWACNTR2	B	
EWACNTR3	C	
EWACNTR4	D	
EWACOVF	5	20
EWACSEQ	17	07
EWACSIO	14	80
EWACSNS	14	04
EWACSQV	16	10
EWACTCV	16	20
EWACTEC	17	C0
EWACTIO	14	20
EWACUNS	16	08
EWAD	17	20
EWADCNT	1C	
EWADDE	1A	0F
EWADDIOS	20	
EWADDISP	1D	
EWADDMSG	4	02
EWADRCW	1C	
EWAE	17	10
EWAEND	70	
EWAERPCR	F4	
EWAERPIB	10	
EWAERPRT	5	10
EWAERWF	11	
EWAERW2	12	
EWAESW	E8	
EWAEXT	0	
EWAFLAGS	4	
EWAFLGA	1A	
EWAFLG1	4	
EWAFLG2	5	
EWAFLG3	6	
EWAFSA	D8	
EWAFSAH	D8	
EWAFSAL	DC	
EWAFSAVF	5	02
EWAHDR	0	
EWAID	E4	
EWAIERP	20	
EWAITO	14	08
EWAJAM	6	80
EWALBUSY	5	04
EWALPUM	15	
EWAMDR	5	80

Table 841. Cross Reference for EWA (continued)

Name	Offset	Hex Tag
EWANORTY	14	01
EWAOBE	12	80
EWAPATHS	1B	
EWAPFCMD	E2	
EWAQTIME	EC	
EWARBS	12	40
EWARCBLT	5	08
EWAREPET	4	20
EWARGFG1	14	
EWARSVD1	E0	
EWASCCD	4	0C
EWASCC1	4	04
EWASCC3	4	0C
EWASLH	F0	
EWASLIS	4	80
EWASMADR	D8	
EWASMFLG	DC	
EWASMRC	E0	
EWASNS	20	
EWASNSCT	7	
EWASNSRD	EE	
EWASSID	EF	
EWASSTAT	8	
EWASTUP	E	
EWAVPATH	E3	
EWAWTEMP	5	40
EWAXCSW1	16	
EWAXCSW2	17	
EWAXTRCD	4	10
EWA2CCWV	11	80
EWA2CSW	6C	

Chapter 204. FBQE Information

FBQE Heading Information

Common Name:	VSM Free Block Queue Element
Macro ID:	IHAFBQE
DSECT Name:	FBQE
Owning Component:	Virtual Storage Manager (SC1CH)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 245 or 255 Key: 0 Residency: Above 16M line
Size:	16 bytes
Created by:	IEAVNIP0, IEAVNP08, IGVFVRGN, IGVGVRGN, IGVFRRGN, IGVGRRGN, IGVFSFBQ
Pointed to by:	GDAFBQCF, GDAFBQCL, GDACSADR, GDAEFBCF, GDAEFBCL, LDAFBQAF, LDAFBQAL, LDAFBQSF, LDAFBQSL, LDAFBQRF, LDAFBQRL, LDAEFBAF, LDAEFBAL, LDAEFBSF, LDAEFBSL, LDAEFBRF, LDAEFBRL, RDFBQEF, RDFBQEL
Serialization:	VSMFIX lock for global fixed subpools LOCAL lock for private area subpools
Function:	Describes 4K multiple blocks of free space in CSA or the Private Area.

FBQE mapping

Table 842. Structure FBQE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	16	FBQE	FREE BLOCK QUEUE ELEMENT
0	(0)	ADDRESS	4	FBQENEXT	ADDRESS OF NEXT FBQE
4	(4)	ADDRESS	4	FBQEPREV	ADDRESS OF PREVIOUS FBQE
8	(8)	UNSIGNED	4	FBQESIZE	SIZE OF FREE BLOCK (IN BYTES)
12	(C)	ADDRESS	4	FBQEAREA	ADDRESS OF THE FREE BLOCK

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Chapter 205. FFAP Information

FFAP Programming Interface Information

FFAP is a programming interface.

FFAP Heading Information

Common Name:	Monitor call event directory
Macro ID:	AHLFFAP
DSECT Name:	GTFAPP, RECHDR, GENDAT, USRDAT, WK200, and DAREA. RECHDR MAPS over the GTF record header. EID maps over the event identifier. GENDAT maps over the generalized data. USRDAT maps over the user data.
Owning Component:	GTF (SC118)
Eye-Catcher ID:	none
Storage Attributes:	Main Storage: NO Virtual Storage: YES Auxiliary Storage: YES Subpool: N/A Key: 0 (ABDUMP), 8 (IPCS) Data Space: NO Residency: LOC(BELOW)
Size:	56 bytes
Created by:	GTF formatting
Pointed to by:	GPR 1
Serialization:	N/A
Function:	Map the GTF TRACE formatting appendage parameter and the new appendage work area list.

FFAP mapping

Table 843. Structure GTFAPP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GTFAPP	, GTF APPENDAGE PARAMETER
0	(0)	SIGNED	4	(0)	WORD BOUNDARY
0	(0)	ADDRESS	4	GTFRECP	INPUT RECORD
4	(4)	ADDRESS	4	GTFBUFP	OUTPUT BUFFER
8	(8)	ADDRESS	4	GTFOPP	GTF OPTION WORD
12	(C)	ADDRESS	4	GTFEIDP	EID IN RECORD
16	(10)	ADDRESS	4	GTFDATP	DATA PORTION
20	(14)	ADDRESS	4	GTFFRMP	ARCHAIC PATTERN FORMATTER
24	(18)	ADDRESS	4	GTFWKAP	ARCHAIC 200 BYTE AREA
28	(1C)	ADDRESS	4	GTFSNPR	ARCHAIC SNAPPARM
32	(20)	ADDRESS	4	GTFABDP	ABDPL
36	(24)	ADDRESS	4	GTFWALP	WORK AREA LIST
40	(28)	ADDRESS	4	GTFTABP	TRACE TABLE
44	(2C)	ADDRESS	4	GTFFMTP	FORMAT PARAMETER
48	(30)	ADDRESS	4	GTFSRCEP	POINTER TO SOURCE DESCRIPTOR RECORD PERTAINING TO THIS GTF RECORD. THE SOURCE DESCRIPTOR RECORD IS MAPPED BY AHLZGTS.

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Table 843. Structure GTFAPP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	SIGNED	4	GTFDATL	THIS IS THE LENGTH OF THE DATA PORTION OF A GTF RECORD. THE DATA PORTION OF THE GTF RECORD IS POINTED TO BY GTFDATP.

Table 844. Structure RECHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RECHDR	, GTF RECORD HEADER
0	(0)	SIGNED	4	(0)	WORD BOUNDARY
0	(0)	SIGNED	2	RECLEN	RECORD LENGTH
2	(2)	CHARACTER	2		NOT REFERENCED
4	(4)	CHARACTER	1	AID	AID
5	(5)	ADDRESS	1	FID	FORMAT IDENTIFIER
6	(6)	CHARACTER	8	TIMESTMP	MAY NOT BE PRESENT

Table 845. Structure GENDAT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GENDAT	, GENERALIZED DATA MAP
0	(0)	SIGNED	4	(0)	WORD BOUNDARY
0	(0)	ADDRESS	4	GENASCB(0)	ASCB POINTER
0	(0)	SIGNED	2	RECERR	ERROR FIELD
2	(2)	SIGNED	2		PAD
4	(4)	SIGNED	2	GENCPU	CPU ADDRESS
6	(6)	CHARACTER	8	GENJOBN	JOBNAME

Table 846. Structure USRDAT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	USRDAT	, USER DATA MAP
0	(0)	SIGNED	4	(0)	WORD BOUNDARY
0	(0)	ADDRESS	4		REFER TO GENASCB
4	(4)	CHARACTER	8	USRJOBN	JOBNAME IN USER RECORD

Table 847. Structure WK200

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	WK200	
0	(0)	CHARACTER	200		STORAGE ACROSS CALLS, ZEROED FOR EACH RECORD, ARCH.

Table 848. Structure DAREA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DAREA	
0	(0)	CHARACTER	2	EID	EVENT IDENTIFIER
2	(2)	CHARACTER	2	DELIM	ADDRESS TABLE DELIMITER

Table 848. Structure DAREA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	2	CHKERR	COMPARE FOR ERROR RECORD

Table 849. Cross Reference for FFAP

Name	Offset	Hex Tag
AID	4	
CHKERR	4	EEEE
DAREA	0	
DELIM	2	4040
EID	0	
FID	5	
GENASCB	0	
GENCPU	4	
GENDAT	0	
GENJOBN	6	
GTFABDP	20	
GTFAPP	0	
GTFBUFP	4	
GTFDATL	34	
GTFDATP	10	
GTFEIDP	C	
GTFFMTP	2C	
GTFFRMP	14	
GTFOPP	8	
GTFRECP	0	
GTFSNPR	1C	
GTFSRCEP	30	
GTFTABP	28	
GTFWALP	24	
GTFWKAP	18	
RECERR	0	
RECHDR	0	
RECLEN	0	
TIMESTMP	6	
USRDAT	0	
USRJOBN	4	
WK200	0	

Chapter 206. FIB Information

FIB Heading Information

Common Name:	VSM Format Information Block
Macro ID:	IGVFIB
DSECT Name:	FIB
Owning Component:	Virtual Storage Manager (SC1CH)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 0 Key: 8 Residency: Above 16M line
Size:	FIB -- 108 bytes STORAGE ESTIMATE: 1, USED BY THE VSMDATA IPCS SERVICE ROUTINES
Created by:	IGVSFMAN
Pointed to by:	FIBPTR
Serialization:	None
Function:	GENERAL PARAMETER LIST PASSED AMONG THE VSMDATA IPCS SERVICE ROUTINES

FIB mapping

Table 850. Structure FIB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	124	FIB	FORMAT ROUTINE INFORMATION BLOCK
0	(0)	ADDRESS	4	FIBABDPL	ADDRESS OF PRINT DUMP PARM LIST
4	(4)	ADDRESS	4	FIBDUMP	DUMP LOCATION OF CONTROL BLOCK
8	(8)	ADDRESS	4	FIBBLOCK	ACCESSED ADDRESS OF CONTROL BLOCK
12	(C)	SIGNED	4	FIBSCAN	NUMBER OF ELEMENTS TO SCAN
16	(10)	SIGNED	4	FIBALLOC	TOTAL AMOUNT ALLOCATED TO THE SUBPOOL
20	(14)	ADDRESS	4	FIBFMTPT	ADDRESS OF FORMAT PATTERN
20	(14)	ADDRESS	4	FIBMODEL	ADDRESS OF FORMAT MODEL
24	(18)	ADDRESS	4	FIBERROR	ADDRESS OF EBCDIC CONTROL BLK NAME
28	(1C)	BITSTRING	4	FIBFLAGS	STATUS FLAGS
		1...		FIBGDA	ERROR IN GDA
		.1..		FIBSPTT	ERROR IN SPTT
		..1.		FIBFVSWK	ERROR IN FIXED VSM WORK AREA
		...1		FIBPVSWK	ERROR IN PAGABLE VSM WORK AREA
		.... 1...		FIBGVSMP	ERROR IN GLOBAL VSM CELL POOLS
		.... .1..		FIBSPT	ERROR IN CSA SUBPOOL TABLE
		.... ..1.		FIBGDEFR	GLOBAL DEFERRED RELEASE QUEUE
		1		FIBRGR	ERROR IN RGR
29	(1D)	1...		*	RESERVED
		.1..		FIBASCB	ERROR IN ASCB
		..1.		FIBLDA	ERROR IN LDA
		...1		FIBLVSWK	ERROR IN PRIVATE AREA VSM WORK AREA

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Table 850. Structure FIB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		FIBLVSMP	ERROR IN LOCAL VSM CELL POOL
		.... .1..		FIBEVRD	EXTD V=R REGION DATA FOUND
		.... ..1.		FIBESRD	EXTD SYS RGN DATA FOUND
		1		FIBLDEFR	LOCAL DEFERRED RELEASE QUEUE FOUND
30	(1E)	1...		FIBASXB	ERROR IN ASXB
		.1..		FIBTCB	ERROR IN TCB
		..1.		FIBAE	ERROR IN AE
		...1		FIBSPQE	ERROR IN SPQE
		.... 1...		FIBSPQA	ERROR IN SPQA
		.... .1..		FIBCAUB	ERROR IN CAUB
		.... ..1.		FIBGQATITBL	ERROR IN GQAT Index Table
		1		FIBGQAT	ERROR IN GQAT
31	(1F)	1...		FIBGQE	ERROR IN GQE
		.1..		FIBASSB	ERROR IN ASSB
		..1.		FIBVAB	ERROR IN VAB
		...1		FIBVSMXT	ERROR IN VSM Cell Pool Extent
		.... 1...		FIBSPQX	ERROR IN SPQX
		.... .111		*	RESERVED
32	(20)	CHARACTER	16	FIBPSEL	INFORMATION RETURNED FROM MODULE IGVSFPAR
32	(20)	ADDRESS	4	FIBASL	ADDRESS OF THE ASID SELECTION LIST
36	(24)	SIGNED	4	FIBASL_LEN	Length of the ASID selection list. This field is copied from ADPLPS31, which is in the select ASID service parameter list (ADPLPSEL), by IGVSFPAR. ADPLPSEL is in IGVSFPAR's dynamic area. Thus, ADPLPS31 is copied to the FIB so that routines other than IGVSFPAR can use it.
40	(28)	BITSTRING	8	FIBKEYS	KEYWORD INDICATORS
40	(28)	BITSTRING	1	FIBPSF1	KEYWORD INDICATORS FOR SELECT ASID SERVICE
		1...		FIBALL	1 => ALL KEYWORD SPECIFIED
		.1..		FIBCUR	1 => CURRENT KEYWORD SPECIFIED
		..1.		FIBERR	1 => ERROR KEYWORD SPECIFIED
		...1		FIBTERR	1 => TCBERROR KEYWORD SPECIFIED
		.... 1...		FIBJOBL	1 => JOBLIST KEYWORD SPECIFIED
		.... .1..		FIBASIDL	1 => ASIDLIST KEYWORD SPECIFIED
		11		*	RESERVED
41	(29)	BITSTRING	1	FIBPSF2	KEYWORD INDICATORS FOR VSMDATA ONLY
		1...		FIBCBS	1 => CONTROLBLOCKS KEYWORD SPECIFIED
		.1..		FIBGLOB	1 => GLOBAL KEYWORD SPECIFIED
		..1.		FIBNOGLB	1 => NOGLOBAL KEYWORD SPECIFIED
		...1		FIBNOAS	1 => NOASID KEYWORD SPECIFIED
		 1111		*	RESERVED
42	(2A)	BITSTRING	6	FIBPSF3	KEYWORD INDICATIORS FOR VSMDATA OWNCOMM PARAMETER

Table 850. Structure FIB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		FIBOWNC	1 => OWNCOMM KEYWORD SPECIFIED
		.1..		FIBSUMM	1 => SUMMARY KEYWORD SPECIFIED
		..1.		FIBDETL	1 => DETAIL KEYWORD SPECIFIED
		...1		FIBSYS	1 => SYSTEM KEYWORD SPECIFIED
		.... 1...		FIBSORT	1 => SORTBY KEYWORD SPECIFIED
		.... .1..		FIBASLEN	1 => ASIDLEN KEYWORD SPECIFIED
		.... ..1.		FIBASADR	1 => ASIDADDR KEYWORD SPECIFIED
		1		FIBADDR	1 => ADDRESS KEYWORD SPECIFIED
43	(2B)	1...		FIBLEN	1 => LENGTH KEYRWORD SPECIFIED
		.1..		FIBTIME	1 => TIME KEYWORD SPECIFIED
		..1.		FIBCONT	1 => CONTENTS KEYWORD SPECIFIED
		...1		FIBCONTY	1 => YES KEYWORD SPECIFIED
		.... 1...		FIBCONTN	1 => NO KEYWORD SPECIFIED
		.... .1..		FIBVALIDATE	1 => VALIDATE keyword specified
		.... ..1.		FIBVALIDATEY	1 => YES KEYWORD SPECIFIED
		1		FIBVALIDATEN	1 => NO KEYWORD SPECIFIED
44	(2C)	1...		FIBOGO	1 => OWNERGONEONLY keyword specified
44	(2C)	BITSTRING	3	*	RESERVED
48	(30)	CHARACTER	4	FIBACRO	Acronym of the control block currently being processed.
52	(34)	BITSTRING	4	FIBPARF	Flags returned by the parser
		1...		FIBSTXER	Syntax error occured
		.1..		FIBCSA	OWNCOMM(CSA) option
		..1.		FIBSQA	OWNCOMM(SQA) option
52	(34)	BITSTRING	3	*	RESERVED
56	(38)	ADDRESS	4	FIBPSAI	Address of PDE chain input to the Select ASID service
60	(3C)	ADDRESS	4	FIBTABLEPTR	Address of DETAIL/SUMMARY Table
64	(40)	SIGNED	4	FIBTABLESIZE	Size of DETAIL/SUMMARY Table
68	(44)	SIGNED	4	FIBTABLEINDEX	Index into the DETAIL/SUMMARY Table
72	(48)	CHARACTER	16	FIBGRANDTACTIVE	Grand Totals for Active ASIDs
72	(48)	UNSIGNED	4	FIBGRANDTACTIVECSA	CSA held
76	(4C)	UNSIGNED	4	FIBGRANDTACTIVESQA	SQA held
80	(50)	UNSIGNED	4	FIBGRANDTACTIVEECSA	ECSA held
84	(54)	UNSIGNED	4	FIBGRANDTACTIVEESQA	ESQA held
88	(58)	CHARACTER	16	FIBGRANDTOWNGONE	Grand Totals for Owner Gone ASIDs
88	(58)	UNSIGNED	4	FIBGRANDTOWNGONECSA	CSA held
92	(5C)	UNSIGNED	4	FIBGRANDTOWNGONESQA	SQA held
96	(60)	UNSIGNED	4	FIBGRANDTOWNGONEECSA	ECSA held
100	(64)	UNSIGNED	4	FIBGRANDTOWNGONEESQA	ESQA held
104	(68)	ADDRESS	4	FIBPDRPTR	PDL extent chain header
108	(6C)	CHARACTER	8	FIBALLOCBYAREA	Allocate storage by area per subpool
108	(6C)	UNSIGNED	4	FIBALLOCGT16M	Portion of FIBALLOC with virtual > 16M
112	(70)	UNSIGNED	4	FIBALLOCLT16M	Portion of FIBALLOC with virtual < 16M
116	(74)	ADDRESS	4	FIBGDA@	GDA address
120	(78)	ADDRESS	4	FIBFIBEP	FIB Extension
124	(7C)	CHARACTER	0	FIBEND	END OF FIB

Table 851. Structure FIBSUM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	44	FIBSUM	Mapping of SUMMARY table
0	(0)	BITSTRING	2	FIBSUMASID	ASID
2	(2)	CHARACTER	8	FIBSUMJOBNAME	JobName
10	(A)	CHARACTER	8	FIBSUMID	Id
18	(12)	CHARACTER	2	FIBSUMSTATUS	Status
20	(14)	UNSIGNED	4	FIBSUMTOTAL	Total common storage
24	(18)	UNSIGNED	4	FIBSUMSQA	SQA
28	(1C)	UNSIGNED	4	FIBSUMCSA	CSA
32	(20)	UNSIGNED	4	FIBSUMESQA	ESQA
36	(24)	UNSIGNED	4	FIBSUMECSA	ECSA
40	(28)	ADDRESS	4	FIBSUMCAUB	CAUB address

Table 852. Structure FIBE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	49208	FIBE	Fib Extension
0	(0)	CHARACTER	4	FIBEFIBE	Acronym
4	(4)	CHARACTER	4	FIBEFLAGS	Reserved Available
		1...		FIBEPREVIOUSPAGEALLOCATED	
		.1..		FIBELDABAD	
		..1.		FIBEFBQEBAD	
		...1		FIBESUBPOOLTABLEOVERFLOW	
		.... 1...		FIBESUBPOOLHDRPRINTED	
8	(8)	SIGNED	4	FIBECOUNT	Count of entries in Fibe
12	(C)	ADDRESS	4	FIBEALLOCABOVE	Current Subpool above
16	(10)	ADDRESS	4	FIBEALLOCBELOW	Current Subpool below
20	(14)	ADDRESS	4	FIBEALLOCANY	Current Subpool anywhere
24	(18)	ADDRESS	4	FIBELSQABOTTOM	Bottom of LSQA area which is a value calculated by finding an FBQE with an area corresponding to LDACRGTP. Add FBQEAREA + FBQESIZE for that FBQE. If no FBQE matches the value is = LDACRGTP
28	(1C)	ADDRESS	4	FIBEELSQABOTTOM	Bottom of ELSQA area which is a value calculated by finding an FBQE with an area corresponding to LDAERGTP. Add FBQEAREA + FBQESIZE for that FBQE. If no FBQE matches the value is = LDAERGTP
32	(20)	ADDRESS	4	FIBETARGETFBQEAREA	Address for IGVERD to Find the FBQE that matches and return the SIZE in the FibeTargetFbqeSize
36	(24)	ADDRESS	4	FIBETARGETFBQESIZE	Value for IGVERD to return the FBQESIZE for a given FibeTargetFbqeArea
40	(28)	CHARACTER	3	FIBECURRENTSPN	Current Subpool Number
43	(2B)	CHARACTER	2	FIBECURRENTKEY	Current Subpool Key number
45	(2D)	CHARACTER	8	FIBECURRENTTCB	Current TCB address
53	(35)	CHARACTER	3	*	Reserved available

Table 852. Structure FIBE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	CHARACTER	24	FIBEENTRY(2048)	
56	(38)	ADDRESS	4	FIBETCB	Pointer To Tcb Owner Binary
60	(3C)	CHARACTER	6	FIBESPNSPKY	Used to reference both SP & KEY
60	(3C)	CHARACTER	3	FIBESPN	Character Subpool Number
63	(3F)	CHARACTER	1	*	Reserved available
64	(40)	CHARACTER	2	FIBESPKY	Character Storage Key
66	(42)	CHARACTER	2	*	Reserved available
68	(44)	ADDRESS	4	FIBEALLOCB	Below allocated to Subpool
72	(48)	ADDRESS	4	FIBEALLOCA	Above allocated to Subpool
76	(4C)	ADDRESS	4	FIBEALLOC	Total allocated to Subpool

Table 853. Structure FIBDET

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	48	FIBDET	Mapping of DETAIL table
0	(0)	BITSTRING	2	FIBDETASID	ASID
2	(2)	CHARACTER	8	FIBDETJOBNAME	JobName
10	(A)	CHARACTER	8	FIBDETID	Id
18	(12)	CHARACTER	2	FIBDETSTATUS	Status
20	(14)	ADDRESS	4	FIBDETADDR	Address of Getmain
24	(18)	UNSIGNED	4	FIBDETLEN	Length of Getmain
28	(1C)	ADDRESS	4	FIBDETRET	Return address
28	(1C)	BITSTRING	3	*	
31	(1F)	1		FIBDETCSA	1 => CSA, 0 => SQA
32	(20)	UNSIGNED	4	FIBDETTIMEDATE	Time stamp
		1...		FIBDETTIMEHIGHBIT	
36	(24)	ADDRESS	4	FIBDETCAUB	CAUB address
40	(28)	ADDRESS	4	FIBDETDBG	GQE address
44	(2C)	CHARACTER	2	FIBDETATTR	Detect/Protect attributes
46	(2E)	CHARACTER	2	*	Reserved

Table 854. Constants for FIB

Len	Type	Value	Name	Description
1	DECIMAL	0	FIBEFORMATNOOPTIONS	
1	DECIMAL	1	FIBEFORMATNOLEADINGZERO	
1	DECIMAL	3	FIBEFORMATUNPRINT	
4	DECIMAL	2048	FIBEMAXC	Maximum number of Fibe Entries
4	CHARACTER	FIBE	FIBEACRO	Acronym
Area prefix string				
10	CHARACTER		FIBEAREAPREFIX	
1	BIT	01111011	FIBPSF1COMMONPARMS	Parameters which are common to CONTROLBLOCKS and and OWNCOMM
6	BIT	0011111111111111 0111111111111111 1111111111111111	FIBMASKSUMM	Masks the OWNCOMM, SUMMARY, and OGO flags in OWNCOMM parameters
6	BIT	1001111111111111 1111111111111111 1111111111111111	FIBMASKCBSDETSUM	Masks DETAIL/SUMMARY bits allowed with Controlblocks

FIB mapping

Table 855. Cross Reference for FIB

Name	Offset	Hex Tag
FIB	0	
FIBABDPL	0	
FIBACRO	30	
FIBADDR	2A	01
FIBAE	1E	20
FIBALL	28	80
FIBALLOC	10	
FIBALLOCBYAREA	6C	
FIBALLOCGT16M	6C	
FIBALLOCLT16M	70	
FIBASADR	2A	02
FIBASCB	1D	40
FIBASIDL	28	04
FIBASL	20	
FIBASL_LEN	24	
FIBASLEN	2A	04
FIBASSB	1F	40
FIBASXB	1E	80
FIBBLOCK	8	
FIBCAUB	1E	04
FIBCBS	29	80
FIBCONT	2B	20
FIBCONTN	2B	08
FIBCONTY	2B	10
FIBCSA	34	40
FIBCUR	28	40
FIBDET	0	
FIBDETADDR	14	
FIBDETASID	0	
FIBDETATTR	2C	
FIBDETCAUB	24	
FIBDETCSA	1F	01
FIBDETDBG	28	
FIBDETID	A	
FIBDETJOBNAME	2	
FIBDETL	2A	20
FIBDETLEN	18	
FIBDETRET	1C	
FIBDETSTATUS	12	
FIBDETTIMEDATE	20	
FIBDETTIMEHIGHBIT	20	80
FIBDUMP	4	
FIBE	0	
FIBEALLOC	4C	
FIBEALLOCA	48	
FIBEALLOCABOVE	C	
FIBEALLOCANY	14	
FIBEALLOCB	44	
FIBEALLOCBELOW	10	

Table 855. Cross Reference for FIB (continued)

Name	Offset	Hex Tag
FIBECOUNT	8	
FIBECURRENTKEY	2B	
FIBECURRENTSPN	28	
FIBECURRENTTCB	2D	
FIBEELSQABOTTOM	1C	
FIBEENTRY	38	
FIBEFBQEBAD	4	20
FIBEFIBE	0	
FIBEFLAGS	4	
FIBELDABAD	4	40
FIBELSQABOTTOM	18	
FIBEND	7C	
FIBEPREVIOUSPAGEALLOCATED	4	80
FIBERR	28	20
FIBERROR	18	
FIBESPKY	40	
FIBESPN	3C	
FIBESPNSPKY	3C	
FIBESRD	1D	02
FIBESUBPOOLHDRPRINTED	4	08
FIBESUBPOOLTABLEOVERFLOW	4	10
FIBETARGETFBQEAREA	20	
FIBETARGETFBQESIZE	24	
FIBETCB	38	
FIBEVRD	1D	04
FIBFIBEP	78	
FIBFLAGS	1C	
FIBFMTPT	14	
FIBFVSWK	1C	20
FIBGDA	1C	80
FIBGDA@	74	
FIBGDEFR	1C	02
FIBGLOB	29	40
FIBGQAT	1E	01
FIBGQATITBL	1E	02
FIBGQE	1F	80
FIBGRANDTACTIVE	48	
FIBGRANDTACTIVECSA	48	
FIBGRANDTACTIVEECSA	50	
FIBGRANDTACTIVEESQA	54	
FIBGRANDTACTIVESQA	4C	
FIBGRANDTOWNGONE	58	
FIBGRANDTOWNGONECSA	58	
FIBGRANDTOWNGONEECSA	60	
FIBGRANDTOWNGONEESQA	64	
FIBGRANDTOWNGONESQA	5C	
FIBGVSMP	1C	08
FIBJOBL	28	08
FIBKEYS	28	

Table 855. Cross Reference for FIB (continued)

Name	Offset	Hex Tag
FIBLDA	1D	20
FIBLDEFR	1D	01
FIBLEN	2B	80
FIBLVSMP	1D	08
FIBLVSWK	1D	10
FIBMODEL	14	
FIBNOAS	29	10
FIBNOGLB	29	20
FIBOGO	2C	80
FIBOWNC	2A	80
FIBPARF	34	
FIBPDRPTR	68	
FIBPSAI	38	
FIBPSEL	20	
FIBPSF1	28	
FIBPSF2	29	
FIBPSF3	2A	
FIBPVSWK	1C	10
FIBRGR	1C	01
FIBSCAN	C	
FIBSORT	2A	08
FIBSPQA	1E	08
FIBSPQE	1E	10
FIBSPQX	1F	08
FIBSPT	1C	04
FIBSPTT	1C	40
FIBSQA	34	20
FIBSTXER	34	80
FIBSUM	0	
FIBSUMASID	0	
FIBSUMCAUB	28	
FIBSUMCSA	1C	
FIBSUMECSA	24	
FIBSUMESQA	20	
FIBSUMID	A	
FIBSUMJOBNAME	2	
FIBSUMM	2A	40
FIBSUMSQA	18	
FIBSUMSTATUS	12	
FIBSUMTOTAL	14	
FIBSYS	2A	10
FIBTABLEINDEX	44	
FIBTABLEPTR	3C	
FIBTABLESIZE	40	
FIBTCB	1E	40
FIBTERR	28	10
FIBTIME	2B	40
FIBVAB	1F	20
FIBVALIDATE	2B	04

Table 855. Cross Reference for FIB (continued)

Name	Offset	Hex Tag
FIBVALIDATEN	2B	01
FIBVALIDATEY	2B	02
FIBVSMXT	1F	10

FIB mapping

Chapter 207. FIX Information

FIX Heading Information

Common Name:	Channel Program Translator Fix List
Macro ID:	IECDFIX
DSECT Name:	FIX
Owning Component:	EXCP (SC1C6)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 226, 230, or 245 Key: 0 Residency: Above or below 16M
Size:	248 bytes
Created by:	IECVEXCP from a large block obtained from the storage manager.
Pointed to by:	TCCWFIX in IECDXCCW
Serialization:	None

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FIX Heading Information

Function: This macro describes the FIX list that is built by the CCW or zHPF channel program translator to fix the pages associated with a caller's virtual channel program. The FIX block consists of an 8 byte header and multiple 8 byte FIX list entries.
Notes:
Prior to MVS XA, EXCP used an internal PGFREE interface to unfix the pages in the fix list. The input to this interface is a virtual subarea list (see macro IHAVSL) which contains one or more 8 byte fix list entries. Each fix list entry consists of a starting and ending address, where the high order 8 bits contains flags and the low order 24 bits contain the storage address. The last entry in the fix list is indicated by setting the high order bit of the last ending address. Fix lists could also be chained together by setting the continuation flag (bit 0) in the starting address. In this case, the fix list entry contains a pointer to the next fix list to process instead of the start of the page fixed area. This allowed a program to page free the storage for an entire chain of fix lists.
With MVS XA, EXCP was changed to use PGSER BRANCH=SPECIAL to unfix the pages. The input to this interface is a short page service list entry (see macro IHASSL), which contains one or more 8 byte fix list entries. Each fix list entry consists of a starting and ending address. The last entry in the fix list is indicated by setting the high order bit of the last ending address. Unlike the VSL format, the SSL format does not support chaining fix lists together and page freeing them in one PGSER call. Instead, a separate PGSER call must be done for each fix list.
Although the current PGSER interface does not support chaining of fix lists, IECVXCCW still uses the last fix list entry in each fix block to create a continuation chain. In fact, IECVXCCW uses only 160 bytes of the fix block, which is the old large block size prior to going to 248 byte large blocks. IECVTHPF does not do this - it uses all of the available fix list entries in the 248 byte block.

FIX mapping

Table 856. Structure FIX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FIX	
0	(0)	ADDRESS	4	FIXCHAIN	Fix block chain pointer
4	(4)	BITSTRING	1	FIXINUSE	Number of fix list entries in use - used by the zHPF translator only
5	(5)	BITSTRING	3		Reserved
Each Fix list entry layout is 8 bytes in length.					
8	(8)	ADDRESS	4	FIXLSTST	Start address of area to be fixed
		1...		FIXCONT	"X'80'" Fix list continuation flag

Table 856. Structure FIX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	ADDRESS	4	FIXLSTEN	End address of area to be fixed
		1...		FIXLAST	"X'80'" Last fix entry flag
12	(C)	X'80'	0	LASTENT	"FIXLast" Last fix entry flag
Fix list equates					
12	(C)	X'8'	0	FIXHL	"FIXLSTST-FIX" Header length
12	(C)	X'8'	0	FIXEL	"FIXLSTEN+L'FIXLSTEN-FIXLSTST" Fix list entry length
12	(C)	X'13'	0	FIXNE	"19" Number of fix list entries-160 byte block caller
12	(C)	X'1E'	0	FIXNEL	"30" Number of fix list entries-248 byte block caller
12	(C)	X'F8'	0	FIXBL	"FIXHL+FIXEL*FIXNEL" Size of fix list block

Table 857. Cross Reference for FIX

Name	Offset	Hex Tag
FIX	0	
FIXBL	C	F8
FIXCHAIN	0	
FIXCONT	8	80
FIXEL	C	8
FIXHL	C	8
FIXINUSE	4	
FIXLAST	C	80
FIXLSTEN	C	
FIXLSTST	8	
FIXNE	C	13
FIXNEL	C	1E
LASTENT	C	80

Chapter 208. FMLE Information

FMLE Heading Information

Common Name:	FASTID Map List Entry
Macro ID:	IHAFMLE
DSECT Name:	FMLE
Owning Component:	Data-in-virtual (SCDIV)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: N/A Key: N/A Residency: Caller's current address space
Size:	16 bytes
Created by:	User of FASTID macro
Pointed to by:	N/A
Serialization:	None
Function:	FMLE is a mapping of an entry in a FASTID Maplist which is a parameter passed to the FASTID macro.

FMLE mapping

Table 858. Structure FMLE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	16	FMLE	FASTID MAP LIST ENTRY
0	(0)	ADDRESS	4	FMLAREA	ADDRESS OF VIRTUAL AREA
4	(4)	UNSIGNED	4	FMLOFFST	BLOCK OFFSET
8	(8)	UNSIGNED	4	FMLSPAN	SPAN VALUE
12	(C)	UNSIGNED	1	FMLPFCNT	PAGE FAULT COUNT
13	(D)	CHARACTER	3	*	RESERVED - MUST BE ZERO

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Chapter 209. FMTB Information

FMTB Programming Interface Information

FMTB is a programming interface.

FMTB Heading Information

Common Name: Component Trace format table
Macro ID: ITTFMTB
DSECT Name: FMTB
Owning Component: Component Trace (SCTRC)
Eye-Catcher ID: FMTB
Offset: 0
Length: 4
Storage Attributes: Virtual Storage: Private storage in IPCS users address space
Subpool: 1
Key: 8
Size: 128 byte header
plus up to 128 65,535 byte entries
Created by: CTRACE user
Pointed to by: Must reside in a load library available to IPCS.
Used by the CTRACE subcommand processor to format trace entries.
Serialization: None
Function: ITTFMTB allows the user to generate a component trace format table or a mapping of the format table. A keyword indicates the function to be performed:
MAP Defines the mapping for a format table.
TABLEDATA Begins a definition of an initialized format table and supplies that information that appears once in the table.
EVENTDATA Defines the data associated with a single event in an initialized format table. One macro should be provided for each event that may be recorded in a component trace table.
As many as 65,535 ITTFMTB EVENTDATA macros can be specified in a format table. (This limit is derived from the halfword dimension field in the header of the table and is not enforced by the macro.)
TABLEEND Ends the definition of an initialized format table.

FMTB mapping

Table 859. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'80'	0	BIT0	"128"
0	(0)	X'40'	0	BIT1	"64"
0	(0)	X'20'	0	BIT2	"32"

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Table 859. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'10'	0	BIT3	"16"
0	(0)	X'8'	0	BIT4	"8"
0	(0)	X'4'	0	BIT5	"4"
0	(0)	X'2'	0	BIT6	"2"
0	(0)	X'1'	0	BIT7	"1"

Table 860. Structure FMTB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FMTB	, FORMAT TABLE MAP
0	(0)	SIGNED	4	(0)	ALIGNED ON FULLWORD BOUNDARY
0	(0)	BITSTRING	128	FMTBHDR(0)	FORMAT TABLE HEADER
0	(0)	CHARACTER	5	FMTBID	IDENTIFIER STRING AND LEVEL
5	(5)	BITSTRING	3	FMTBFL	RESERVED
8	(8)	ADDRESS	2	FMTBENT	NUMBER OF FORMAT ENTRIES
10	(A)	ADDRESS	2	FMTBENTS	SIZE OF A FORMAT ENTRY
12	(C)	CHARACTER	8	FMTBFILX(0)	NAME OF COMPONENT FILTER EXIT
12	(C)	SIGNED	4	FMTBFIL0	ZERO IF FILTER EXIT ADDRESS SPECIFIED
16	(10)	ADDRESS	4	FMTBFILA	ADDRESS OF FILTER EXIT
20	(14)	CHARACTER	8	FMTBLOCX(0)	NAME OF COMPONENT LOCATE BUFFER EXIT
20	(14)	SIGNED	4	FMTBLOC0	ZERO IF LOCATE BUFFER EXIT ADDRESS SPECIFIED
24	(18)	ADDRESS	4	FMTBLOCA	ADDRESS OF LOCATE BUFFER EXIT
28	(1C)	ADDRESS	2	FMTBELNG	LENGTH OF TRACE ENTRIES
30	(1E)	BITSTRING	98		RESERVED
128	(80)	BITSTRING	96	FMTBNTRY(0)	FORMAT TABLE ENTRY
128	(80)	BITSTRING	4	FMTBFMID	ENTRY IDENTIFIER
132	(84)	CHARACTER	8	FMTBFORM(0)	FORMATTER NAME
132	(84)	SIGNED	4	FMTBFOR0	ZERO IF FORMAT EXIT ADDRESS SPECIFIED
136	(88)	ADDRESS	4	FMTBFORA	ADDRESS OF FORMAT EXIT
140	(8C)	CHARACTER	8	FMTBMODL(0)	MODEL NAME
140	(8C)	SIGNED	4	FMTBMOD0	ZERO IF MODEL ADDRESS SPECIFIED
144	(90)	ADDRESS	4	FMTBMODA	ADDRESS OF MODEL
148	(94)	CHARACTER	8	FMTBMNEM	MNEMONIC FOR TRACE ENTRY
156	(9C)	BITSTRING	2	FMTBFLGS(0)	FORMAT CONTROL FLAGS
156	(9C)	BITSTRING	1	FMTBFLG1	FORMAT CONTROL FLAGS
		1...		FMTBEXCP	"BIT0" TRACE ENTRY IS EXCEPTIONAL
157	(9D)	BITSTRING	1		RESERVED
158	(9E)	CHARACTER	32	FMTBDESC	TRACE ENTRY DESCRIPTION
190	(BE)	BITSTRING	2	FMTBSMVW	SUMMARY VIEW DEFINITION
192	(C0)	BITSTRING	2	FMTBFLVW	FULL VIEW DEFINITION
194	(C2)	ADDRESS	2	FMTBASOF(5)	OFFSETS INTO TRACE ENTRY FOR ASIDS
204	(CC)	ADDRESS	2	FMTBJOBO(5)	OFFSETS INTO TRACE ENTRY FOR JOB NAMES
214	(D6)	ADDRESS	2	FMTBCOMD	COMPONENT DATA
216	(D8)	BITSTRING	8		RESERVED

Table 861. Cross Reference for FMTB

Name	Offset	Hex Tag
BIT0	0	80
BIT1	0	40
BIT2	0	20
BIT3	0	10
BIT4	0	8
BIT5	0	4
BIT6	0	2
BIT7	0	1
FMTB	0	
FMTBASOF	C2	
FMTBCOMD	D6	
FMTBDESC	9E	
FMTBELNG	1C	
FMTBENT	8	
FMTBENTS	A	
FMTBEXCP	9C	80
FMTBFILA	10	
FMTBFILX	C	
FMTBFIL0	C	
FMTBFL	5	
FMTBFLGS	9C	
FMTBFLG1	9C	
FMTBFLVW	C0	
FMTBFMID	80	
FMTBFORA	88	
FMTBFORM	84	
FMTBFOR0	84	
FMTBHDR	0	
FMTBID	0	
FMTBJOBO	CC	
FMTBLOCA	18	
FMTBLOCX	14	
FMTBLOC0	14	
FMTBMNEM	94	
FMTBMODA	90	
FMTBMODL	8C	
FMTBMOD0	8C	
FMTBNTRY	80	
FMTBSMVW	BE	

Chapter 210. FQE Information

FQE Heading Information

Common Name:	VSM Free Queue Element
Macro ID:	IHAFQE
DSECT Name:	FQE
Owning Component:	Virtual Storage Manager (SC1CH)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 245 or 255 Key: 0 Residency: Above 16M line
Size:	20 bytes
Created by:	IGVGCSA, IGVGPVT, IGVGAPVT, IGVFSDQE
Pointed to by:	DQEFFQE, DQELFQE, FQENEXT, FQEPREV
Serialization:	VSMFIX lock for global subpools LOCAL lock for private area subpools
Function:	Describes CSA and Private Area free space within pages allocated to a subpool.

FQE mapping

Table 862. Structure FQE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	20	FQE	FREE QUEUE ELEMENT
0	(0)	ADDRESS	4	FQEAREA	ADDRESS OF FREE AREA
4	(4)	UNSIGNED	4	FQESIZE	SIZE OF FREE AREA
8	(8)	ADDRESS	4	FQENEXT	ADDRESS OF NEXT FQE
12	(C)	ADDRESS	4	FQEPREV	ADDRESS OF PREVIOUS FQE
16	(10)	ADDRESS	4	FQEDQE	ADDRESS OF CONTAINING DQE

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Chapter 211. FRRS Information

FRRS Programming Interface Information

FRRS is a programming interface.

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FRRS Heading Information

Common Name:	FUNCTION RECOVERY ROUTINE STACK
Macro ID:	IHAFRRS
DSECT Name:	FRRS, FRRSXSTK, FRRSENTR, FRRSXENT
Owning Component:	RECOVERY TERMINATION MANAGER (SCRTM)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: 239 Key: 0
Size:	856 BYTES OR LESS
Created by:	IEAVNIP0 OR IEFVCPU
Pointed to by:	PSA DATA AREA FIELDS - PSACSTK (CURRENT FRR STACK) PSANSTK (NORMAL FRR STACK) PSASSTK (SVC-I/O-DISPATCHER FRR STACK) PSASSAV (CURRENT FRR STACK SAVED BY SVC-I/O-DISPATCHER) PSAMSTK (MACHINE CHECK FLIH FRR STACK) PSAMSAV (CURRENT FRR STACK AT TIME OF MACHINE CHECK) PSAPSTAK (PROGRAM CHECK FLIH FRR STACK) PSAPSAV (CURRENT FRR STACK AT TIME OF PROGRAM CHECK) PSAESTK1 (EXTERNAL FLIH1 FRR STACK) PSAESAV1 (CURRENT FRR STACK AT TIME OF EXTERNAL INTERRUPT) PSAESTK2 (EXTERNAL FLIH2 FRR STACK) PSAESAV2 (CURRENT FRR STACK AT TIME OF FIRST RECURSIVE EXTERNAL INTERRUPT) PSAESTK3 (EXTERNAL FLIH3 FRR STACK) PSAESAV3 (CURRENT FRR STACK AT TIME OF SECOND RECURSIVE EXTERNAL INTERRUPT) PSARSTK (RESTART FLIH FRR STACK) PSARSAV (CURRENT FRR STACK AT TIME OF RESTART INTERRUPT) PSATSTK (RECOVERY TERMINATION MANAGER FRR STACK) PSATSAV (ERROR STACK SAVED BY RTM PROCESSING) PSAASTK (ALTERNATE CPU RECOVERY FRR STACK) PSAASAV (FRR STACK SAVED BY ACR PROCESSING)
Serialization:	AT LEAST ONE OF THE FOLLOWING - DISABLEMENT, SRB MODE, ANY LOCK HELD, OR AN EUT=YES FRR IS ESTABLISHED AND HAS NOT BEEN DELETED
Function:	MAPPING OF FRR STACK CONTENTS, USED WITH THE SETFRR MACRO TO DEFINE FRRS

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FRRS mapping

Table 863. Structure FRRS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FRRS	, FRRSPTR
0	(0)	CHARACTER	88	FRRSND(0)	NON-DYNAMIC PART OF FRRS
0	(0)	CHARACTER	16	FRRSHEAD(0)	THE HEADER OF THE FRR STACK
0	(0)	ADDRESS	4	FRRSEMP	ADDRESS WHICH INDICATES AN EMPTY STACK
4	(4)	ADDRESS	4	FRRSLAST	ADDRESS OF LAST ENTRY IN THE STACK
8	(8)	SIGNED	4	FRRSELEN	LENGTH OF EACH FRR ENTRY IN THE STACK
12	(C)	CHARACTER	36	FRRSCP1P(0)	COPIED BY FRRSCOPY WHEN "PLUS1"
12	(C)	ADDRESS	4	FRRSCURR	ADDRESS OF CURRENT FRR ENTRY IN THE STACK
16	(10)	CHARACTER	32	FRRSCPY1(0)	COPIED BY FRRSCOPY
16	(10)	CHARACTER	24	FRRSRSA	SETFRR REG 14-3 SAVE AREA
40	(28)	CHARACTER	4	FRRSRTMW	RECURSION CONTROL DATA REMOVED FROM THE RT1W
44	(2C)	SIGNED	2	FRRSENTL	LENGTH OF ENTRIES FOR FRRSCOPY
46	(2E)	SIGNED	2	FRRSEXTL	LENGTH OF EXTENSIONS FOR FRRSCOPY
48	(30)	CHARACTER	8		RESERVED FOR FUTURE USE
56	(38)	ADDRESS	4	FRRSRTMA	RTM1 WORK AREA ADDRESS
60	(3C)	ADDRESS	4	FRRSXSTA	ADDRESS OF THE EXTENSIONS TO THE FRR ENTRIES (ACTUAL SIZE IS 16 TIME THE MAXIMUM NUMBER OF ENTRIES
64	(40)	CHARACTER	24	FRRSCPY2(0)	COPIED BY FRRSCOPY
64	(40)	CHARACTER	24	FRRSASA	SETFRR AR 14-3 SAVE AREA
88	(58)	CHARACTER	1	FRRSENTS	FRR ENTRIES IN STACK

Table 864. Structure FRRSXSTK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FRRSXSTK	, FRRSXSTA THE FRR EXTENSIONS
0	(0)	CHARACTER	0		ACTUAL SIZE

Table 865. Structure FRRSENTR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FRRSENTR	, FRREPTR THE MAPPING OF A FRR ENTRY
0	(0)	ADDRESS	4	FRRSFRRA(0)	THE ADDRESS OF THE FRR
0	(0)	CHARACTER	3		HIGH ORDER 3 BYTES OF FRR ADDR
3	(3)	CHARACTER	1	FRRSFRA1	LOW ORDER BYTE OF FRR ADDRESS
		1		FRRSXFLG	"X'01'" FLAG INDICATING FRRSFLGS INITIALIZED WHEN SETFRR WAS ISSUED
4	(4)	CHARACTER	4	FRRSFLGS(0)	FLAGS USED BY RTM DURING FRR PROCESSING
4	(4)	BITSTRING	1	FRRSFLG1	RECURSION FLAGS USED BY RTM

Table 865. Structure FRRSENTR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		FRRSRCUR	"X'80'" RECURSION FLAG USED WHEN GIVING CONTROL TO FRR AND WHEN RECEIVING CONTROL BACK FROM FRR
		.1..		FRRSNEST	"X'40'" FLAG INDICATING A NESTED FRR ENTRY
		..1.		FRRSNLCL	"X'20'" FLAG INDICATING THAT NESTED FRR IS A MODE=LOCAL FRR
		...1		FRRSNGLB	"X'10'" FLAG INDICATING THAT NESTED FRR IS A MODE=GLOBAL FRR
		.... 1...		FRRSNRTY	"X'08'" FRR RETRY INDICATOR. IF ON, FRR CANNOT RETRY
5	(5)	BITSTRING	1	FRRSFLG2	RESERVED
6	(6)	BITSTRING	1	FRRSFLG3	RESULT OF IAC INSTRUCTION FROM TIME OF SETFRR
7	(7)	BITSTRING	1	FRRSFLG4	FLAGS TO INDICATE OPTIONS CHOSEN WHEN THE SETFRR WAS ISSUED
		1...		FRRSEUT	"X'80'" ENABLED UNLOCKED TASK FRR (EUT=YES ON SETFRR)
		.1..		FRRSNCNL	"X'40'" CANCEL=NO REQUESTED, ROUTINE RUNS PROTECTED FROM CANCELS AND DETACHES
		..1.		FRRSLO31	"X'20'" THIS FRR CAN TOLERATE AN SDWA ABOVE THE 16M LINE
		...1		FRRSAM64	"X'10'" AMODE 64 FRR
		.... 1...		FRRSFULL	"X'08'" MODE=FULLXM WAS SPEC ON SETFRR
		.... .1..		FRRSPRIM	"X'04'" MODE=PRIMARY SPEC ON SETFRR
		.... ..1.		FRRSLCL	"X'02'" MODE=LOCAL WAS SPEC ON SETFRR
		1		FRRSGLB	"X'01'" MODE=GLOBAL WAS SPEC ON SETFRR
8	(8)	CHARACTER	24	FRRSPARM	PARAMETER AREA PASSED TO FRR

Table 866. Structure FRRSXENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FRRSXENT	,FRRXPTR THE MAPPING OF AN FRR ENTRY EXTENSION
0	(0)	DBL WORD	8		RESERVED
8	(8)	ADDRESS	4	FRREAX	EAX VALUE AT SETFRR
12	(C)	ADDRESS	4	FRRLS	LINKAGE STACK AT SETFRR
16	(10)	CHARACTER	16	FRRSXM(0)	CROSS MEMORY INFORMATION WHEN SETFRR WAS ISSUED
16	(10)	CHARACTER	8	FRRSCR3(0)	CONTROL REGISTER 3
16	(10)	SIGNED	4	FRRSSINS	SASTE INSTANCE#
20	(14)	CHARACTER	2	FRRSKM	KEY MASK
22	(16)	CHARACTER	2	FRRSSAS	SASID
24	(18)	CHARACTER	8	FRRSCR4(0)	CONTROL REGISTER 4
24	(18)	SIGNED	4	FRRSPINS	PASTE INSTANCE#
28	(1C)	CHARACTER	2	FRRSAX	AUTHORIZATION INDEX
30	(1E)	CHARACTER	2	FRRSPAS	PASID

FRRS mapping

Table 867. Cross Reference for FRRS

Name	Offset	Hex Tag
FRREAX	8	
FRRLS	C	
FRRS	0	
FRRSAM64	7	10
FRRSASA	40	
FRRSAX	1C	
FRRSCPY1	10	
FRRSCPY2	40	
FRRSCP1P	C	
FRRSCR3	10	
FRRSCR4	18	
FRRSCURR	C	
FRRSELEN	8	
FRRSEMP	0	
FRRSENTL	2C	
FRRSENTR	0	
FRRSENTS	58	
FRRSEUT	7	80
FRRSEXTL	2E	
FRRSFLGS	4	
FRRSFLG1	4	
FRRSFLG2	5	
FRRSFLG3	6	
FRRSFLG4	7	
FRRSFRA1	3	
FRRSFRRA	0	
FRRSFULL	7	8
FRRSGLB	7	1
FRRSHEAD	0	
FRRSKM	14	
FRRSLAST	4	
FRRSLCL	7	2
FRRSLO31	7	20
FRRSNCNL	7	40
FRRSND	0	
FRRSNEST	4	40
FRRSNGLB	4	10
FRRSNLCL	4	20
FRRSNRTY	4	8
FRRSPARM	8	
FRRSPAS	1E	
FRRSPINS	18	
FRRSPRIM	7	4
FRRSRCUR	4	80
FRRSRSA	10	
FRRSRTMA	38	
FRRSRTMW	28	
FRRSSAS	16	
FRRSSINS	10	

Table 867. Cross Reference for FRRS (continued)

Name	Offset	Hex Tag
FRRSXENT	0	
FRRSXFLG	3	1
FRRSXM	10	
FRRSXSTA	3C	
FRRSXSTK	0	

Chapter 212. FSIP Information

FSIP Programming Interface Information

FSIP is a programming interface.

FSIP Heading Information

Common Name:	Common Fixed Length Parameter List
Macro ID:	IAZFSIP
DSECT Name:	IAZFSIP
Owning Component:	JES2 (SC141)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 230 Key: 1 Residency: During FSS/FSA Connect processing, virtual storage is anywhere if the FSS supports AMODE 31; otherwise, it is below 16M. During FSS/FSA Disconnect processing, virtual storage is below 16M. Real storage is anywhere. Storage is in the FSS address space during normal FSS/FSA Connect/Disconnect processing. During abnormal FSS/FSA Disconnect processing in job termination, storage is in the User address space.
Size:	See FSILEN
Created by:	Issuers of FSIREQ
Pointed to by:	FSXBFSIP field of the $FSSXB data area. FAXBFSIP field of the $FSAXB data area. FAXBPOST field of the $FSAXB data area. TTEFSIOA field of the $TTE data area.
Serialization:	None required
Function:	Input parameter list for FSIREQ functions.

FSIP mapping

Table 868. Structure IAZFSIP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IAZFSIP	
0	(0)	SIGNED	4	FSIPARM(0)	FSI PARAMETER LIST
0	(0)	SIGNED	4	FSILEN	LENGTH OF CONTIGUOUS FSI PARAMETER LIST
4	(4)	SIGNED	4	FSIFUNC	FUNCTION ID NUMBER
4	(4)	X'1'	0	FSIORDER	"1" ORDER FUNCTION NUMBER
4	(4)	X'2'	0	FSIPOST	"2" POST FUNCTION NUMBER
4	(4)	X'3'	0	FSIGDS	"3" GETDS FUNCTION NUMBER
4	(4)	X'4'	0	FSIGREC	"4" GETREC FUNCTION NUMBER
4	(4)	X'5'	0	FSIFREC	"5" FREEREC FUNCTION NUMBER
4	(4)	X'6'	0	FSIRDS	"6" RELDS FUNCTION NUMBER
4	(4)	X'7'	0	FSICKPT	"7" CHKPT FUNCTION NUMBER
4	(4)	X'8'	0	FSISEND	"8" SEND FUNCTION NUMBER
4	(4)	X'8'	0	FSIMAXFN	"8" MAXIMUM FUNCTION NUMBER

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Table 868. Structure IAZFSIP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'FE'	0	FSICON	"254" CONNECT FUNCTION NUMBER
4	(4)	X'FF'	0	FSIDCON	"255" DISCONNECT FUNCTION NUMBER
8	(8)	SIGNED	4	FSIFSID(0)	FSS/FSA IDENTIFIER
8	(8)	SIGNED	2	FSIFSSID	FSS PART OF FSID
10	(A)	SIGNED	2	FSIFSAID	FSA PART OF FSID
12	(C)	SIGNED	4	FSIRESN	REASON CODE FOR FUNCTION FAILURE
16	(10)	ADDRESS	4	FSITEXT	Ptr to user specified data
20	(14)	ADDRESS	4	FSIPEXT	ADDRESS OF EXTENSION AREA
24	(18)	SIGNED	4	FSIFEND(0)	ORG POINT FOR FUNCT DEPENDENT AREAS
24	(18)	X'18'	0	FSIFSIZ	"*-FSIPARM" FSI HEADER LENGTH
CONNECT/DISCONNECT FUNCTION DEPENDENT AREA					
24	(18)	X'18'	0	CDFPARM	"*" CONNECT/DISCON FUNC DPNDT AREA
24	(18)	X'35'	0	CDFSSIID	"53" CONNECT/DISCON SSI REQ (SSOBFUNC)
24	(18)	ADDRESS	1	CDFFLGR1	REQUEST FLAG BYTES
		1...		CDFNORM	"B'10000000'" SPECIFIES NORMAL DISCONNECT
		.1..		CDFABNOR	"B'01000000'" SPECIFIES ABNORMAL DISCONNECT
25	(19)	ADDRESS	1	CDFFLGR2	FUNCTIONS WHICH INVOLVE OP. INTER. SAME AS ORDIVF1 BIT DEFINITIONS
		1...		CDFFL2BT	"B'10000000'" BTS INTERVENTION
		.1..		CDFFL2FL	"B'01000000'" FLASH INTERVENTION
		..1.		CDFFL2FO	"B'00100000'" FORMS INTERVENTION
		...1		CDFFL2CF	"B'00010000'" CONTINUOUS FORMS
26	(1A)	ADDRESS	1	CDFTOKEN	RESERVED FOR JES
27	(1B)	ADDRESS	1	CDFFLGR3	FUNCTIONS SUPPORTED BY THE FSS
		1...		CDFFL3MS	"B'10000000'" EXTENDED MESSAGE ROUTING IS SUPPORTED
		.1..		CDFFL331	"B'01000000'" AMODE 31 is supported
		..1.		CDFFL34D	"B'00100000'" 4-Digit Device Numbers
THE FOLLOWING THREE BITS ARE MUTUALLY EXCLUSIVE OF EACH OTHER. IF NONE IS SPECIFIED, IT IS ASSUMED AS IF CDF3NOIP IS SPECIFIED.					
		...1		CDF3IP	"B'00010000'" IP-ADDRESS IS SUPPORTED
		.... 1...		CDF3NOIP	"B'00001000'" IP-ADDR NOT SUPPORTED
		.... .1..		CDF3BOTH	"B'00000100'" BOTH IP & NON-IP
28	(1C)	ADDRESS	4	CDFSTOR	ADDRESS OF CONTIGUOUS SSOB/SSIB PAIR
		1...		CDFSTORH	"X'80'" HIGH ORDER BIT OF STOR FOR SSI
32	(20)	SIGNED	4	CDFFDATA	VALUE RETURNED ON POST AND ORDER
36	(24)	SIGNED	4	CDFIDNO	NUMBER OF ID PAIRS IN CDFIDNA AREA

Table 868. Structure IAZFSIP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	ADDRESS	4	CDFIDNA	ADDRESS OF THE FSS/FSA ROUTINE IDS AND THEIR RESPECTIVE ADDRESSES
44	(2C)	CHARACTER	4	CDFSSID	NAME OF THE JES TO BE CONNECTED
48	(30)	ADDRESS	4	CDFEXTN	RESERVED POINTER
52	(34)	ADDRESS	1	CDFFLGS1	FUNCTIONS SUPPORTED BY JES
		1...		CDFS1INT	"B'10000000'" JES SUPPORTS FSA UNSOLICITED SENDS FOR INTERVENTION CONDITIONS
		.1..		CDFS1ETE	"B'01000000'" EXTENDED JES SUPPORT FOR ENVIRONMENTAL TYPE ERRORS
		..1.		CDFS1A31	"B'00100000'" JES Supports AMODE 31
		...1		CDFS1ESS	"B'00010000'" JES Supports ESS keywords
		.... 1...		CDFS14DG	"B'00001000'" JES Supports 4-Digit Device Numbers
		.... .1..		CDFS1DNR	"B'00000100'" Jes Supports Device Not Responding Conditions
		.... ..1.		CDFS1EXT	"B'00000010'" JES supports extended send types
53	(35)	ADDRESS	3		RESERVED
56	(38)	SIGNED	4	(2)	RESERVED
64	(40)	SIGNED	4	(0)	BOUNDARY ALIGNMENT
64	(40)	X'28'	0	CDFSIZ	"*-CDFPARM" CONNECT/DISCONNECT AREA LENGTH
64	(40)	X'40'	0	CDFSIZ1	"CDFSIZ+FSIFSIZ"
		CONNECT IDENTIFIER AND ROUTINE ADDRESS AREA. THIS AREA CONSISTS OF PAIRS OF FUNCTION IDS CORRESPONDING ROUTINE ADDRESSES. THE ID-ADDRESS PAIR CAN BE IN ANY ORDER. THE NUMBER OF PAIRS IS SPECIFIED IN CDFIDNO.			
64	(40)	SIGNED	4	CDFPAIRS(0)	ID/ADDRESS PAIRS
64	(40)	SIGNED	4	CDFID	FUNCTION ID OF 1ST ADDRESS
68	(44)	ADDRESS	4	CDFAD	ADDRESS OF 1ST ID
72	(48)	SIGNED	4	(0)	BOUNDARY ALIGNMENT
72	(48)	X'8'	0	CDFIDSZ	"*-CDFID" CDFIDS AREA LENGTH
		CONNECT/DISCONNECT FUNCTION RETURN CODE DEFINITIONS NOTE: THESE ARE DEFINED HERE FOR SP 1.3.3 COMPATABILITY, REFER TO JES DOCUMENTATION/LISTINGS FOR FURTHER DEFINITIONS			
72	(48)	X'4'	0	CDFIFC	"4" INVALID FUNCTION CODE
72	(48)	X'8'	0	CDFIFSID	"8" INVALID FSS ID
72	(48)	X'C'	0	CDFIFAID	"12" INVALID FSA ID
72	(48)	X'10'	0	CDFIGM	"16" GETMAIN FAILURE
72	(48)	X'14'	0	CDFICN	"20" FSA CONNECT BEFORE FSS CONNECT
72	(48)	X'18'	0	CDFICNFA	"24" FSA NOT/ALREADY CONNECTED
72	(48)	X'1C'	0	CDFICNFS	"28" FSS NOT/ALREADY CONNECTED
72	(48)	X'20'	0	CDFIFREE	"32" FREEMAIN FAILURE
72	(48)	X'24'	0	CDFILOAD	"36" LOAD ERROR
		STANDARD BASE SECTION OF ORDER FUNCTION DEPENDENT AREA			

Table 868. Structure IAZFSIP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	X'18'	0	ORDPARM	"*" ORDER FUNCTION DEPENDENT AREA
24	(18)	ADDRESS	1	ORDFLGS1	STATUS FLAG BYTE
		1...		ORDSRESP	"B'10000000'" RESPONSE IS ORDRSPAD NOW
		.1..		ORDARESP	"B'01000000'" RESPONSE WILL RETURN LATER
25	(19)	ADDRESS	3		RESERVED
28	(1C)	ADDRESS	4	ORDFDATA	RETURNED DATA SPECIFIED ON CONNECT
32	(20)	ADDRESS	4	ORDRSPAD	RESPONSE AREA ADDRESS
36	(24)	SIGNED	2	ORDID	HOLDS THE ORDER NUMBER (ID)
36	(24)	X'4'	0	ORDSPFSS	"4" STOP FSS ORDER ID
36	(24)	X'8'	0	ORDSTFSA	"8" START FSA ORDER ID
36	(24)	X'C'	0	ORDSPFSA	"12" STOP FSA ORDER ID
36	(24)	X'10'	0	ORDSTDEV	"16" START DEVICE ORDER ID
36	(24)	X'14'	0	ORDSPDEV	"20" STOP DEVICE ORDER ID
36	(24)	X'18'	0	ORDQUERY	"24" QUERY ORDER ID
36	(24)	X'1C'	0	ORDSET	"28" SET ORDER ID
36	(24)	X'20'	0	ORDSYNC	"32" SYNC ORDER ID
36	(24)	X'24'	0	ORDINTV	"36" INTERVENTION ORDER ID
38	(26)	SIGNED	2		RESERVED
40	(28)	SIGNED	4		RESERVED
44	(2C)	SIGNED	4	ORDBEND(0)	ORG POINT FOR ORDDATA
44	(2C)	X'14'	0	ORDBSIZ	"*-ORDPARM" ORDER AREA LENGTH
44	(2C)	X'2C'	0	ORDBSIZ1	"ORDBSIZ+FSIFSIZ"
ORDER DATA ASSOCIATED WITH 'START/STOP DEVICE/FSA/FSS' ORDER					
44	(2C)	X'2C'	0	ORDSS	"*" DATA FOR START/STOP ORDERS
44	(2C)	ADDRESS	4	ORDSSSP	POINTER TO START/STOP PARMS
48	(30)	ADDRESS	1	ORDSSF1	FLAG BYTE (REQUEST TYPE)
		1...		ORDSSNO	"B'10000000'" NORMAL TERMINATION REQUESTED
		.1..		ORDSSAB	"B'01000000'" ABNORMAL TERMINATION REQUESTED
		.... 1...		ORDSSDU	"B'00001000'" DUMP REQUESTED ON STOP
49	(31)	ADDRESS	1		RESERVED
50	(32)	SIGNED	2	ORDSSMX	MAX NUMBER OF FSAS PER FSS
52	(34)	SIGNED	4	ORDSSID(0)	FSA IDENTIFIER TO START/STOP
52	(34)	SIGNED	2	ORDSSSI	FSS PART OF THE ID
54	(36)	SIGNED	2	ORDSSAI	FSA PART OF THE ID
56	(38)	CHARACTER	4	ORDSSAD4	Dev Addr in 4-digit format
56	(38)	X'38'	0	ORDSSAD	"ORDSSAD4,3" Dev Addr in 3-digit format
60	(3C)	CHARACTER	8	ORDSSNA	DEV NAME IN PRINTABLE FORM
68	(44)	ADDRESS	4	ORDSSXT	RESERVED POINTER
72	(48)	ADDRESS	4	ORDSSSP2	POINTER TO MESSAGE ROUTING AREA FOR FSA RELATED MESSAGES.
76	(4C)	SIGNED	4	(2)	RESERVED
84	(54)	SIGNED	4	ORDSSEND(0)	START/STOP MAIN PARM LIST END
84	(54)	X'28'	0	ORDSSSZ	"*-ORDSS" VARIABLE ORDER DATA SIZE

Table 868. Structure IAZFSIP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
84	(54)	X'54'	0	ORDSSSZ1	"ORDSSSZ+ORDBSIZ+FSIFSIZ" SIZE OF ST/STOP PARMS
		DEVICE INITIALIZATION PARMS ASSOCIATED WITH START FSA THE DEVICE INITIALIZATION PARMS SHOULD NOT BE ASSUMED TO BE CONTIGUOUS WITH THE CONTIGUOUS HEADER, BASE, AND ORDER DEPENDENT SECTIONS OF THE START FSA ORDER PARAMETER LIST. FOR THIS REASON, WHEN ACCESSING THIS AREA THE FIELD ORDSSSP SHOULD BE USED TO OBTAIN ITS LOCATION THE LENGTH OF THIS AREA IS NOT INCLUDED IN FSILEN			
84	(54)	X'54'	0	ORDSSP1	"*" INIT PARMS AREA FOR START FSA
84	(54)	ADDRESS	1	ORDSSPF1	FLAG BYTE 1 (INITIAL SETTINGS)
		1...		ORDSSS1	"B'10000000'" INITIALIZE SINGLE SPACING
		.1..		ORDSSS2	"B'01000000'" INITIALIZE DOUBLE SPACING
		..1.		ORDSSS3	"B'00100000'" INITIALIZE TRIPLE SPACING
		...1		ORDSSSR	"B'00010000'" INIT. DS SPECIFIED SPACING
85	(55)	ADDRESS	1	ORDSSPF2	FLAG BYTE 2 (INITIAL SETTINGS)
		1...		ORDSSKP	"B'10000000'" INITIALIZE PAGE CKPT INTV
		.1..		ORDSSKT	"B'01000000'" INITIALIZE TIME CKPT INTV
		..1.		ORDSSKN	"B'00100000'" INITIALIZE CKPT DISABLED
86	(56)	ADDRESS	1	ORDSSPF3	FLAG BYTE 3 (INITIAL SETTINGS)
		1...		ORDSSDN	"B'10000000'" INIT. NPRO TIMER DISABLED
		.1..		ORDSSIN	"B'01000000'" INIT. NPRO TIMER VALUE
87	(57)	ADDRESS	1		RESERVED
88	(58)	SIGNED	4	ORDSSKI	INITIAL CHECKPOINT INTERVAL
92	(5C)	SIGNED	4	ORDSSNI	INITIAL NPRO TIME INTERVAL
96	(60)	SIGNED	4	ORDSSND1(0)	DEVICE INIT PARMS END
96	(60)	X'C'	0	ORDSSPZ	"*-ORDSSP1" SIZE OF SUB-PARM AREA
96	(60)	X'60'	0	ORDSSPZ1	"ORDSSPZ+ORDSSSZ1" SIZE OF START FSA + SUB-PARAMETERS
		MESSAGE ROUTING INFORMATION FOR FSA RELATED MESSAGES THE MESSAGE ROUTING AREA SHOULD NOT BE ASSUMED TO BE CONTIGUOUS WITH THE START FSA PARAMETER LIST OR DEVICE INITIALIZATION PARMS. FOR THIS REASON, WHEN ACCESSING THIS AREA THE FIELD ORDSSSP2 SHOULD BE USED TO OBTAIN ITS LOCATION THE LENGTH OF THIS AREA IS NOT INCLUDED IN FSILEN			
96	(60)	X'60'	0	ORDSS2	"*" MESSAGE PARMS AREA FOR START FSA
96	(60)	SIGNED	2	ORDSS2LN	LENGTH OF THIS AREA
98	(62)	BITSTRING	1	ORDSS2FL	MESSAGE ROUTING FLAG
		1...		ORDSS2CS	"B'10000000'" CONSOLE ID SPECIFIED

Table 868. Structure IAZFSIP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
99	(63)	BITSTRING	1		RESERVED
100	(64)	CHARACTER	16	ORDSS2RC	MCS ROUTING CODE MASK FOR FSA RELATED MESSAGES
116	(74)	SIGNED	4	ORDSS2CN	CONSOLE ID IN WTO FORMAT FOR FSA RELATED MESSAGES
120	(78)	SIGNED	4	(3)	RESERVED
132	(84)	SIGNED	4	ORDSSND2(0)	END OF SECTION
132	(84)	X'24'	0	ORDSS2PZ	"*-ORDSS2" SIZE OF SUB-PARM AREA
132	(84)	X'84'	0	ORDSS2Z2	"ORDSS2PZ+ORDSSPZ1" SIZE OF START FSA + DEV. INIT + MESSAGE ROUTING PARMS
		ORDER DATA ASSOCIATED WITH THE 'SET' ORDER			
44	(2C)	X'2C'	0	ORDST	"*" DATA FOR SET ORDER
44	(2C)	ADDRESS	1	ORDSTR1	REQUEST FLAG BYTE
		1...		ORDSTSN	"B'10000000'" SET NPRO INTERVAL
		.1..		ORDSTDN	"B'01000000'" DISABLE NPRO TIMER
45	(2D)	ADDRESS	3		RESERVED
48	(30)	SIGNED	4	ORDSTNI	NPRO INTERVAL (IN SECONDS)
52	(34)	ADDRESS	4	ORDSTXT	RESERVED POINTER
56	(38)	SIGNED	4	(3)	RESERVED
68	(44)	SIGNED	4	(0)	BOUNDARY ALIGNMENT
68	(44)	X'18'	0	ORDSTSZ	"*-ORDST" VARIABLE ORDER DATA SIZE
68	(44)	X'18'	0	ORDTSZ	"ORDSTSZ" SET ORDER SIZE (FOR SP 1.3.3)
68	(44)	X'44'	0	ORDSTSZ1	"ORDSTSZ+ORDBSIZ+FSIFSIZ"
		ORDER DATA ASSOCIATED WITH THE 'SYNCH' ORDER			
44	(2C)	X'2C'	0	ORDSY	"*" DATA FOR SYNCH ORDER
44	(2C)	ADDRESS	1	ORDSYR1	REQUEST FLAG BYTE (SYNCH ACTION) (IF ZERO, SYNCH TO OOP)
		1...		ORDSYBCP	"B'10000000'" SYNCH TO PREVIOUS CKPT.
		.1..		ORDSYFCP	"B'01000000'" SYNCH TO NEXT CHECKPOINT
		..1.		ORDSYBTM	"B'00100000'" SYNCH TO TO BEGINNING OF CURRENT TRANSMISSION
		...1		ORDSYETM	"B'00010000'" SYNCH TO END OF CURRENT TRANSMISSION
		.... 1...		ORDSYBDS	"B'00001000'" SYNCH TO BEGINNING OF DS
		.... .1..		ORDSYEDS	"B'00000100'" SYNCH TO END OF DATA SET
45	(2D)	ADDRESS	1	ORDSYR2	REQUEST FLAG BYTE (REPOSITION)
		1...		ORDSYRI	"B'10000000'" INCREMENT PAGE POSITION
		.1..		ORDSYRD	"B'01000000'" DECREMENT PAGE POSITION
		..1.		ORDSYNR	"B'00100000'" DO NOT REPOSITION PAST END OF DATA SET AT OOP
46	(2E)	ADDRESS	1	ORDSYR3	REQUEST FLAG BYTE (UPDATE) (DEVICE RELATED ITEMS)

Table 868. Structure IAZFSIP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		ORDSYS1	"B'10000000'" SET SINGLE SPACE
		.1..		ORDSYS2	"B'01000000'" SET DOUBLE SAPCE
		..1.		ORDSYS3	"B'00100000'" SET TRIPLE SPACE
		...1		ORDSYSR	"B'00010000'" USE DS SPECIFIED SPACING
		.... 1...		ORDSYKP	"B'00001000'" PAGE INTERVAL CKPTS
		.... .1..		ORDSYKT	"B'00000100'" TIME INTERVAL CKPTS
		.... ..1.		ORDSYKN	"B'00000010'" DISABLE CHECKPOINTING
		1		ORDSYRL	"B'00000001'" RELOAD RESOURCES FOR THE DATA SET AT OOP
47	(2F)	ADDRESS	1	ORDSYR4	REQUEST FLAG BYTE (UPDATE) (DATA SET RELATED ITEMS)
		1...		ORDSYCI	"B'10000000'" INCREMENT COPY COUNT
		.1..		ORDSYCD	"B'01000000'" DECREMENT COPY COUNT
		..1.		ORDSYCR	"B'00100000'" REPLACE COPY COUNT
48	(30)	ADDRESS	1	ORDSYR5	REQUEST FLAG BYTE (INTERRUPT)
		1...		ORDSYDC	"B'10000000'" DS AT OOP IS COMPLETE
		.1..		ORDSYDI	"B'01000000'" DS AT OOP IS INCOMPLETE
		..1.		ORDSYVA	"B'00100000'" CHKPT FOR OOP DS IS VALID
		...1		ORDSYNV	"B'00010000'" CHKPT FOR OOP DS IS INVALD
49	(31)	ADDRESS	1	ORDSYR6	REQUEST FLAG BYTE (MISC.)
		1...		ORDSYMV	"B'10000000'" PRINT ORDSYMSG ON THE OUTPUT OF THE DATA SET BEING SYNCED
		.1..		ORDSYDS	"B'01000000'" REJECT SYNCH IF DATA SET NOT ACTIVE AT OOP
		..1.		ORDSYSP	"B'00100000'" JOB TRAILER PAGE IS REQUIRED FOR THE DD AT OOP
		...1		ORD6EOG	"B'00010000'" End of Output Group
		.... 1...		ORD6CLP	"B'00001000'" Clear the pipeline
50	(32)	ADDRESS	1		RESERVED STATUS FLAG BYTE
51	(33)	ADDRESS	1		RESERVED
52	(34)	SIGNED	4	ORDSYNP	NO. OF PAGES TO REPOSITION
56	(38)	SIGNED	4	ORDSYKI	CHECKPOINT INTERVAL (SEC OR PG)
60	(3C)	SIGNED	2	ORDSYCP	COPY COUNT VALUE
62	(3E)	BITSTRING	2		RESERVED
64	(40)	ADDRESS	4	ORDSYSMX	PTR TO SET ORDER PARM LIST (LENGTH OF SET ORDER NOT INCLUDED IN FSILEN)
68	(44)	ADDRESS	4	ORDSYXTN	RESERVED POINTER
72	(48)	SIGNED	4	(3)	RESERVED
84	(54)	CHARACTER	120	ORDSYMSG	MESSAGE TEXT TO BE PRESENTED ON USERS OUTPUT
204	(CC)	SIGNED	4	(0)	BOUNDARY ALIGNMENT

Table 868. Structure IAZFSIP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
204	(CC)	X'A0'	0	ORDSYSZ	"*-ORDSY" VARIABLE ORDER DATA SIZE
204	(CC)	X'CC'	0	ORDSYSZ1	"ORDSYSZ+ORDBSIZ+FSIFSIZ"
		ORDER DATA ASSOCIATED WITH 'INTERVENTION' ORDER			
44	(2C)	X'2C'	0	ORDIV	"*" INTERVENTION ORDER
44	(2C)	ADDRESS	1	ORDIVF1	FLAG BYTE 1 - INTERVENTION TYPE
		1...		ORDIVRBT	"B'10000000'" BTS INTERVENTION REQUEST
		.1..		ORDIVRFL	"B'01000000'" FLASH INTERVENTION REQUEST
		..1.		ORDIVRFO	"B'00100000'" FORMS INTERVENTION REQUEST
		...1		ORDIVRCF	"B'00010000'" CONT. FORMS INTRVNTN REQST
45	(2D)	ADDRESS	1	ORDIVF2	FLAG BYTE 2 - UPDATE TYPE
		1...		ORDIVUBT	"B'10000000'" BTS TOKEN UPDATE REQUEST
		.1..		ORDIVUFL	"B'01000000'" FLASH TOKEN UPDATE REQUEST
		..1.		ORDIVUFO	"B'00100000'" FORMS TOKEN UPDATE REQUEST
		...1		ORDIVUCF	"B'00010000'" CONT. FORMS UPDATE REQUEST
46	(2E)	ADDRESS	2		RESERVED
48	(30)	CHARACTER	8	ORDIVBTT	TOKEN FOR BTS INTERVENTION
56	(38)	CHARACTER	8	ORDIVFLT	TOKEN FOR FLASH INTERVENTION
64	(40)	CHARACTER	8	ORDIVFOT	TOKEN FOR FORMS INTERVENTION
72	(48)	CHARACTER	8	ORDIVCFT	TOKEN FOR CFS INTERVENTION
80	(50)	ADDRESS	4	ORDIVXTN	RESERVED POINTER
84	(54)	SIGNED	4	(3)	RESERVED
96	(60)	SIGNED	4	(0)	BOUNDARY ALIGNMENT
96	(60)	X'34'	0	ORDIVSZ	"*-ORDIV" VARIABLE ORDER DATA SIZE
96	(60)	X'60'	0	ORDIVSZ1	"ORDIVSZ+ORDBSIZ+FSIFSIZ"
		GETDS FUNCTION DEPENDENT AREA			
24	(18)	X'18'	0	GDSPARM	"*" GETDS FUNCTION DEPENDENT AREA
24	(18)	ADDRESS	1	GDSFLGR1	REQUEST FLAG BYTE 1
		1...		GDSJHDR	"B'10000000'" JOB HEADER PAGE REQUIRED
		.1..		GDSJTRL	"B'01000000'" JOB TRAILER PAGE REQUIRED
		..1.		GDSHDR	"B'00100000'" DATA SET HEADER PAGE REQUIRED
		...1		GDSHTDS	"B'00010000'" DATA SET RTND TO BE ON SAME PAGE AS JOB HEADER OR TRAILER PAGE
		.... 1...		GDSFRMRK	"B'00001000'" FORMS MARK REQUIRED
		.... .1..		GDSCMC	"B'00000100'" COPY MARK TO BE CHNGED ON DS

Table 868. Structure IAZFSIP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		GDSCMCPY	"B'00000010'" COPY MARK TO BE CHNGED ON COPIES
		1		GDSTRKDS	"B'00000001'" TRACK DATA SET AND ISSUE SEND WHEN DATA SET REACHES OOP
25	(19)	ADDRESS	1	GDSFLGR2	REQUEST FLAG BYTE 2
		1...		GDSJHSWB	"B'10000000'" USE SWBS DEFINED FOR JOB HEADER PAGE
		.1..		GDSJTSWB	"B'01000000'" USE SWBS DEFINED FOR JOB TRAILER PAGE
		..1.		GDS2EOG	"B'00100000'" End of Output Group
		...1		GDS2CMNO	"B'00010000'" COPY MARK to be supressed
26	(1A)	ADDRESS	1	GDSFLGS1	STATUS FLAG BYTE
		1...		GDSCKP	"B'10000000'" CHECKPOINT AREA FILLED IN
		.1..		GDSALLOC	"B'01000000'" DATA SET ALLOCATED ID IN GDSID
		..1.		GDSJNEWS	"B'00100000'" DATA SET IS JESNEWS
		.... 1...		GDSNALLC	"B'00001000'" DATA SET NOT ALLOCATED
		.... .1..		GDSRSTCT	"B'00000100'" PAGE/REC COUNTS TO BE RESET
		.... ..1.		GDSSJERR	"B'00000010'" ERROR IN SJF PROCESSING
27	(1B)	ADDRESS	1		STATUS FLAG BYTE RESERVED
28	(1C)	SIGNED	4	GDSCKPL	LENGTH OF CHKPT AREA SUPPLIED
32	(20)	ADDRESS	4	GDSCKPA	POINTER TO CHECKPOINT AREA
36	(24)	ADDRESS	4	GDSJSPA	POINTER TO JSPA
40	(28)	BITSTRING	8	GDSDDTK(0)	DD SWB TOKEN
40	(28)	ADDRESS	4	GDSDDRS	SWB- RESERVED
44	(2C)	ADDRESS	4	GDSDDPT	SWB- PTR TO ADDR OF SWB CHAIN
48	(30)	BITSTRING	8	GDSOUTK(0)	OUTPUT SWB TOKEN
48	(30)	ADDRESS	4	GDSOUTRS	SWB- RESERVED
52	(34)	ADDRESS	4	GDSOUTPT	SWB- PTR TO ADDR OF SWB CHAIN
56	(38)	CHARACTER	8	GDSJDVTN	JDVT NAME USED AT CREATION
64	(40)	CHARACTER	12	GDSDSID	DATA SET IDENTIFIER
76	(4C)	ADDRESS	4	GDSEXTN	RESERVED POINTER
80	(50)	BITSTRING	1	GDSRECFM	Data set record format
81	(51)	BITSTRING	2	GDSMRECL	Maximum ds record length
83	(53)	BITSTRING	1		Reserved for future use
84	(54)	ADDRESS	4	GDSDSRE	Address of data set token (0 for JESNEWS - GDSJNEWS)
88	(58)	SIGNED	4		RESERVED
92	(5C)	CHARACTER	80	GDSSJMSG	MSG TEXT FOR SJF ERROR
172	(AC)	SIGNED	4	(0)	BOUNDARY ALIGNMENT
172	(AC)	X'94'	0	GDSSIZ	"*-GDSPARM" GETDS AREA LENGTH
172	(AC)	X'AC'	0	GDSSIZ1	"GDSSIZ+FSIFSIZ"
		GETREC FUNCTION DEPENDENT AREA			

Table 868. Structure IAZFSIP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	X'18'	0	GLRPARM	"*" GETREC FUNCTION DEPENDENT AREA
24	(18)	ADDRESS	1	GLRFLGR1	REQUEST FLAG BYTE
		1...		GLRREC1	"B'10000000'" REQUEST FIRST REC IN DS
		.1..		GLRRECN	"B'01000000'" REQUEST NEXT SEQUENTIAL REC
		..1.		GLRRECS	"B'00100000'" REQUEST SPECIFIED REC
25	(19)	ADDRESS	1		REQUEST FLAG BYTE RESERVED
26	(1A)	ADDRESS	1	GLRFLGS1	STATUS FLAG BYTE
		1...		GLREOF	"B'10000000'" END OF FILE INDICATOR
		.1..		GLRNBA	"B'01000000'" NO BUFFERS AVAILABLE
		..1.		GLRIPL	"B'00100000'" INVALID PARAMETER LIST
		...1		GLRIOE	"B'00010000'" I/O ERROR ENCOUNTERED
		.... 1...		GLRLGE	"B'00001000'" LOGIC ERROR OR ABEND OCCURD
		.... .1..		GLRNOI	"B'00000100'" NO INDEX RETURNED
27	(1B)	ADDRESS	1		STATUS FLAG BYTE RESERVED
28	(1C)	ADDRESS	4	GLRINDX	POINTER TO RETURNED INDEX
32	(20)	BITSTRING	8	GLRECID	SPOOL RECORD ID (SEE IDXRECID)
40	(28)	CHARACTER	12	GLRDSID	DS INDENTIFIER
52	(34)	ADDRESS	4	GLREXTN	RESERVED POINTER
56	(38)	SIGNED	4	(3)	RESERVED
68	(44)	SIGNED	4	(0)	BOUNDARY ALIGNMENT
68	(44)	X'2C'	0	GLRSIZ	"*-GLRPARM" GETREC AREA LENGTH
68	(44)	X'44'	0	GLRSIZ1	"GLRSIZ+FSIFSIZ"
FREEREC FUNCTION DEPENDENT AREA					
24	(18)	X'18'	0	FLRPARM	"*" FREEREC FUNCTION DEPENDENT AREA
24	(18)	ADDRESS	4	FLRINDX	POINTER TO INDEX TO BE FREED
28	(1C)	CHARACTER	12	FLRDSID	DS IDENTIFIER
40	(28)	ADDRESS	4	FLREXTN	RESERVED POINTER
44	(2C)	SIGNED	4	(3)	RESERVED
56	(38)	SIGNED	4	(0)	BOUNDARY ALIGNMENT
56	(38)	X'20'	0	FLRSIZ	"*-FLRPARM" FREEREC AREA LENGTH
56	(38)	X'38'	0	FLRSIZ1	"FLRSIZ+FSIFSIZ"
RELDS FUNCTION DEPENDENT AREA					
24	(18)	X'18'	0	RDSPARM	"*" RELDS FUNCTION DEPENDENT AREA
24	(18)	ADDRESS	1	RDSFLGS1	DATA SET STATUS FLAG BYTE
		1...		RDSDONE	"B'10000000'" DS COMPLETELY PROCESSED
		.1..		RDSINC	"B'01000000'" DS NOT COMPLETELY PROCESSED
		..1.		RDSCKPI	"B'00100000'" DS CHKPT INVALID
		...1		RDSUNPR	"B'00010000'" DS UNPRINTABLE

Table 868. Structure IAZFSIP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	X'18'	0	RDSSTAT	"RDSFLGS1" Alternate name for RDSFLGS1
25	(19)	ADDRESS	3		RESERVED
28	(1C)	CHARACTER	12	RDSDSID	DATA SET IDENTIFIER
40	(28)	ADDRESS	4	RDSEXTN	RESERVED POINTER
44	(2C)	CHARACTER	8	RDSMIDSE	MESSAGE ID INDICATING DATASET ERROR
52	(34)	SIGNED	4		RESERVED
56	(38)	SIGNED	4	(0)	
56	(38)	X'20'	0	RDSSIZ	"*-RDSPARM" RELDS AREA LENGTH
56	(38)	X'38'	0	RDSSIZ1	"RDSSIZ+FSIFSIZ"
CHKPT FUNCTION DEPENDENT AREA					
24	(18)	X'18'	0	CHKPARM	"*" CHKPT FUNCTION DEPENDENT AREA
24	(18)	ADDRESS	4	CHKADR	POINTER TO CHKPT BUFFER
28	(1C)	ADDRESS	1	CHKFLGR1	REQUEST FLAG BYTE
		1...		CHKFCWRT	"B'10000000'" FORCE A WRITE OF THE CHK REC
29	(1D)	ADDRESS	1		RESERVED
30	(1E)	ADDRESS	1	CHKFLGS1	STATUS FLAG BYTE
		1...		CHKFCERR	"B'10000000'" PERMANENT ERROR ATTEMPTING CHECK- POINT WRITE, REQUEST IGNORED
31	(1F)	ADDRESS	1		RESERVED
32	(20)	CHARACTER	12	CHKDSID	DS IDENTIFIER
44	(2C)	ADDRESS	4	CHKEXTN	RESERVED POINTER
48	(30)	SIGNED	4	(3)	RESERVED
60	(3C)	SIGNED	4	(0)	BOUNDARY ALIGNMENT
60	(3C)	X'24'	0	CHKSIZ	"*-CHKPARM" CHKPT AREA LENGTH
60	(3C)	X'3C'	0	CHKSIZ1	"CHKSIZ+FSIFSIZ"
POST FUNCTION DEPENDENT AREA					
24	(18)	X'18'	0	POSTPARM	"*" POST FUNCTION DEPENDENT AREA
24	(18)	ADDRESS	1	POSTFLS1	STATUS FLAG BYTE
		1...		POSTGDS	"B'10000000'" GETDS REQUEST SATISFIED
25	(19)	ADDRESS	3		RESERVED
28	(1C)	SIGNED	4	POSFDATA	RETURNED CONNECT DATA
32	(20)	SIGNED	4		RESERVED
32	(20)	X'C'	0	POSTSIZ	"*-POSTPARM" POST AREA LENGTH
32	(20)	X'24'	0	POSTSIZ1	"POSTSIZ+FSIFSIZ"
SEND FUNCTION DEPENDENT AREA					
24	(18)	X'18'	0	SNDPARM	"*" SEND FUNCTION DEPENDENT AREA
24	(18)	ADDRESS	1	SNDTYPE	SEND FLAG BYTE
		1...		SNDTYRSP	"B'10000000'" RESPONSE TO AN ORDER
		.1..		SNDTYTDS	"B'01000000'" SEND REQUESTED VIA GDSFLGR1 INDICATING DS REACHED OOP
		..1.		SNDTYFIT	"B'00100000'" REQUEST FOR FSA TERM

Table 868. Structure IAZFSIP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		SNDTYINT	"B'00010000'" UNSOLICITED DEVICE INTERVENTION DETECTED FROM THE FSA
		.... 1...		SNDTYICL	"B'00001000'" UNSOLICITED DEVICE INTERVENTION CLEARED FROM THE FSA
		.... .1..		SNDTYDNR	"B'00000100'" Unsolicited device not Responding RECVD From the FSA
		.... ..1.		SNDTYDCL	"B'00000010'" Unsolicited device not Responding CLEARED From the FSA
		1		SNDTYEXT	"B'00000001'" Extended send type specified
25	(19)	BITSTRING	1	SNDTYP2	Extended send type
25	(19)	X'1'	0	SNDE58OK	"1" Unsolicited request to issue an EOD-OK ENF58 signal
25	(19)	X'2'	0	SNDE58ER	"2" Unsolicited request to issue an EOD-Error ENF58 signal
26	(1A)	BITSTRING	2		Reserved
28	(1C)	ADDRESS	4	SNDRSPTR	RESPONSE AREA POINTER FOR UNSOLICITED SEND REQUESTS
32	(20)	SIGNED	4		RESERVED
36	(24)	SIGNED	4	(0)	BOUNDARY ALIGNMNET
36	(24)	X'C'	0	SNDSIZ	"*-SNDPARM" SEND AREA LENGTH
36	(24)	X'24'	0	SNDSIZ1	"SNDSIZ+FSIFSIZ"

Table 869. Structure FSIUDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FSIUDATA	User defined trace data.
0	(0)	SIGNED	4	FSIUDLEN	Length of user data area, this includes the length word and the routine name as well as the user trace data in FSIUDTXT. Must be 2K or less.
4	(4)	CHARACTER	8	FSIUDNAM	Routine name generating the FSIREQ.
12	(C)	CHARACTER	1	FSIUDTXT(0)	User specified data that is to be placed in the GTF trace when GTF tracing is turned on.

Table 870. Structure FSIED

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FSIED	
0	(0)	SIGNED	2	FSIEXNUM	NUMBER OF EXTENSIONS
2	(2)	SIGNED	2	FSIEXLEN	LENGTH OF ALL EXTENSIONS
4	(4)	CHARACTER	4	FSIEHID	EXTENSION HEADER ID
8	(8)	SIGNED	4		RESERVED
12	(C)	SIGNED	4		RESERVED
16	(10)	SIGNED	4		RESERVED

Table 870. Structure FSIED (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	SIGNED	4		RESERVED
24	(18)	SIGNED	4	FSIEXEND(0)	END OF DEFINITION AREA
24	(18)	X'18'	0	FSIEDSZE	"*-FSIEXNUM" SIZE OF DEFINITION AREA

Table 871. Structure FSIEA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FSIEA	
0	(0)	SIGNED	2	FSIEGLEN	EXTENSION AREA LENGTH
2	(2)	SIGNED	2	FSIEGVSN	VERSION NUMBER FIELD
4	(4)	SIGNED	4	FSIEGFID	EXTENSION ID IDENTIFYING GETDS
8	(8)	CHARACTER	80	FSIEGUTK	USER TOKEN
88	(58)	CHARACTER	80	FSIEGRTK	RESOURCE TOKEN
168	(A8)	CHARACTER	20	FSIEGOGT	OUTPUT GROUP TOKEN
168	(A8)	X'BC'	0	FSIEASZE	"*-FSIEGLEN" SIZE OF GETDS EXT. AREA
168	(A8)	X'2'	0	FSIEGVNM	"2" CURRENT VERSION NUMBER

Table 872. Cross Reference for FSIP

Name	Offset	Hex Tag
CDFABNOR	18	40
CDFAD	44	
CDFEXTN	30	
CDFFDATA	20	
CDFFLGR1	18	
CDFFLGR2	19	
CDFFLGR3	1B	
CDFFLGS1	34	
CDFFL2BT	19	80
CDFFL2CF	19	10
CDFFL2FL	19	40
CDFFL2FO	19	20
CDFFL3MS	1B	80
CDFFL331	1B	40
CDFFL34D	1B	20
CDFICN	48	14
CDFICNFA	48	18
CDFICNFS	48	1C
CDFID	40	
CDFIDNA	28	
CDFIDNO	24	
CDFIDSZ	48	8
CDFIFAID	48	C
CDFIFC	48	4
CDFIFREE	48	20
CDFIFSID	48	8
CDFIGM	48	10

Table 872. Cross Reference for FSIP (continued)

Name	Offset	Hex Tag
CDFILOAD	48	24
CDFNORM	18	80
CDFPAIRS	40	
CDFPARM	18	18
CDFSIZ	40	28
CDFSIZ1	40	40
CDFSSID	2C	
CDFSSIID	18	35
CDFSTOR	1C	
CDFSTORH	1C	80
CDFS1A31	34	20
CDFS1DNR	34	4
CDFS1ESS	34	10
CDFS1ETE	34	40
CDFS1EXT	34	2
CDFS1INT	34	80
CDFS14DG	34	8
CDFTOKEN	1A	
CDF3BOTH	1B	4
CDF3IP	1B	10
CDF3NOIP	1B	8
CHKADR	18	
CHKDSID	20	
CHKEXTN	2C	
CHKFCERR	1E	80
CHKFCWRT	1C	80
CHKFLGR1	1C	
CHKFLGS1	1E	
CHKPARM	18	18
CHKSIZ	3C	24
CHKSIZ1	3C	3C
FLRDSID	1C	
FLREXTN	28	
FLRINDX	18	
FLRPARM	18	18
FLRSIZ	38	20
FLRSIZ1	38	38
FSICKPT	4	7
FSICON	4	FE
FSIDCON	4	FF
FSIEA	0	
FSIEASZE	A8	BC
FSIED	0	
FSIEDSZE	18	18
FSIEGFID	4	
FSIEGLEN	0	
FSIEGOGT	A8	
FSIEGRTK	58	
FSIEGUTK	8	

Table 872. Cross Reference for FSIP (continued)

Name	Offset	Hex Tag
FSIEGVNM	A8	2
FSIEGVSN	2	
FSIEHID	4	
FSIEXEND	18	
FSIEXLEN	2	
FSIEXNUM	0	
FSIFEND	18	
FSIFREC	4	5
FSIFSAID	A	
FSIFSID	8	
FSIFSIZ	18	18
FSIFSSID	8	
FSIFUNC	4	
FSIGDS	4	3
FSIGREC	4	4
FSILEN	0	
FSIMAXFN	4	8
FSIORDER	4	1
FSIPARM	0	
FSIPEXT	14	
FSIPOST	4	2
FSIRDS	4	6
FSIRESN	C	
FSISEND	4	8
FSITEXT	10	
FSIUDATA	0	
FSIUDLEN	0	
FSIUDNAM	4	
FSIUDTXT	C	
GDSALLOC	1A	40
GDSCKP	1A	80
GDSCKPA	20	
GDSCKPL	1C	
GDSCMC	18	4
GDSCMCPY	18	2
GDSDDPT	2C	
GDSDDRS	28	
GDSDDTK	28	
GDSDSID	40	
GDSDSRE	54	
GDSEXTN	4C	
GDSFLGR1	18	
GDSFLGR2	19	
GDSFLGS1	1A	
GDSFRMRK	18	8
GDSHDR	18	20
GDSHTDS	18	10
GDSJDVTN	38	
GDSJHDR	18	80

Table 872. Cross Reference for FSIP (continued)

Name	Offset	Hex Tag
GDSJHSWB	19	80
GDSJNEWS	1A	20
GDSJSPA	24	
GDSJTRL	18	40
GDSJTSWB	19	40
GDSMRECL	51	
GDSNALLC	1A	8
GDSOUTK	30	
GDSOUTPT	34	
GDSOUTRS	30	
GDSPARM	18	18
GDSRECFM	50	
GDSRSTCT	1A	4
GDSSIZ	AC	94
GDSSIZ1	AC	AC
GDSSJERR	1A	2
GDSSJMSG	5C	
GDSTRKDS	18	1
GDS2CMNO	19	10
GDS2EOG	19	20
GLRDSID	28	
GLRECID	20	
GLREOF	1A	80
GLREXTN	34	
GLRFLGR1	18	
GLRFLGS1	1A	
GLRINDX	1C	
GLRIOE	1A	10
GLRIPL	1A	20
GLRLGE	1A	8
GLRNBA	1A	40
GLRNOI	1A	4
GLRPARM	18	18
GLRRECN	18	40
GLRRECS	18	20
GLRREC1	18	80
GLRSIZ	44	2C
GLRSIZ1	44	44
IAZFSIP	0	
ORDARESP	18	40
ORDBEND	2C	
ORDBSIZ	2C	14
ORDBSIZ1	2C	2C
ORDFDATA	1C	
ORDFLGS1	18	
ORDID	24	
ORDINTV	24	24
ORDIV	2C	2C
ORDIVBTT	30	

Table 872. Cross Reference for FSIP (continued)

Name	Offset	Hex Tag
ORDIVCFT	48	
ORDIVFLT	38	
ORDIVFOT	40	
ORDIVF1	2C	
ORDIVF2	2D	
ORDIVRBT	2C	80
ORDIVRCF	2C	10
ORDIVRFL	2C	40
ORDIVRFO	2C	20
ORDIVSZ	60	34
ORDIVSZ1	60	60
ORDIVUBT	2D	80
ORDIVUCF	2D	10
ORDIVUFL	2D	40
ORDIVUFO	2D	20
ORDIVXTN	50	
ORDPARM	18	18
ORDQUERY	24	18
ORDRSPAD	20	
ORDSET	24	1C
ORDSPDEV	24	14
ORDSPFSA	24	C
ORDSPFSS	24	4
ORDSRESP	18	80
ORDSS	2C	2C
ORDSSAB	30	40
ORDSSAD	38	38
ORDSSAD4	38	
ORDSSAI	36	
ORDSSDN	56	80
ORDSSDU	30	8
ORDSSEND	54	
ORDSSF1	30	
ORDSSID	34	
ORDSSIN	56	40
ORDSSKI	58	
ORDSSKN	55	20
ORDSSKP	55	80
ORDSSKT	55	40
ORDSSMX	32	
ORDSSNA	3C	
ORDSSND1	60	
ORDSSND2	84	
ORDSSNI	5C	
ORDSSNO	30	80
ORDSSPF1	54	
ORDSSPF2	55	
ORDSSPF3	56	
ORDSSPZ	60	C

Table 872. Cross Reference for FSIP (continued)

Name	Offset	Hex Tag
ORDSSPZ1	60	60
ORDSSP1	54	54
ORDSSSI	34	
ORDSSSP	2C	
ORDSSSP2	48	
ORDSSSR	54	10
ORDSSSZ	54	28
ORDSSSZ1	54	54
ORDSSS1	54	80
ORDSSS2	54	40
ORDSSS3	54	20
ORDSSXT	44	
ORDSS2	60	60
ORDSS2CN	74	
ORDSS2CS	62	80
ORDSS2FL	62	
ORDSS2LN	60	
ORDSS2PZ	84	24
ORDSS2RC	64	
ORDSS2Z2	84	84
ORDST	2C	2C
ORDSTDEV	24	10
ORDSTDN	2C	40
ORDSTFSA	24	8
ORDSTNI	30	
ORDSTR1	2C	
ORDSTSN	2C	80
ORDSTSZ	44	18
ORDSTSZ1	44	44
ORDSTXT	34	
ORDSY	2C	2C
ORDSYBCP	2C	80
ORDSYBDS	2C	8
ORDSYBTM	2C	20
ORDSYCD	2F	40
ORDSYCI	2F	80
ORDSYCP	3C	
ORDSYCR	2F	20
ORDSYDC	30	80
ORDSYDI	30	40
ORDSYDS	31	40
ORDSYEDS	2C	4
ORDSYETM	2C	10
ORDSYFCP	2C	40
ORDSYKI	38	
ORDSYKN	2E	2
ORDSYKP	2E	8
ORDSYKT	2E	4
ORDSYMSG	54	

Table 872. Cross Reference for FSIP (continued)

Name	Offset	Hex Tag
ORDSYMV	31	80
ORDSYNC	24	20
ORDSYNP	34	
ORDSYNR	2D	20
ORDSYNV	30	10
ORDSYRD	2D	40
ORDSYRI	2D	80
ORDSYRL	2E	1
ORDSYR1	2C	
ORDSYR2	2D	
ORDSYR3	2E	
ORDSYR4	2F	
ORDSYR5	30	
ORDSYR6	31	
ORDSYSMX	40	
ORDSYSP	31	20
ORDSYSR	2E	10
ORDSYSZ	CC	A0
ORDSYSZ1	CC	CC
ORDSYS1	2E	80
ORDSYS2	2E	40
ORDSYS3	2E	20
ORDSYVA	30	20
ORDSYXTN	44	
ORDTSZ	44	18
ORD6CLP	31	8
ORD6EOG	31	10
POSFDATA	1C	
POSTFLS1	18	
POSTGDS	18	80
POSTPARM	18	18
POSTSIZ	20	C
POSTSIZ1	20	24
RDSCKPI	18	20
RDSDONE	18	80
RDSDSID	1C	
RDSEXTN	28	
RDSFLGS1	18	
RDSINC	18	40
RDSMIDSE	2C	
RDSPARM	18	18
RDSSIZ	38	20
RDSSIZ1	38	38
RDSSTAT	18	18
RDSUNPR	18	10
SNDE58ER	19	2
SNDE58OK	19	1
SNDPARM	18	18
SNDRSPTR	1C	

Table 872. Cross Reference for FSIP (continued)

Name	Offset	Hex Tag
SNDSIZ	24	C
SNDSIZ1	24	24
SNDTYDCL	18	2
SNDTYDNR	18	4
SNDTYEXT	18	1
SNDTYFIT	18	20
SNDTYICL	18	8
SNDTYINT	18	10
SNDTYPE	18	
SNDTYP2	19	
SNDTYRSP	18	80
SNDTYTDS	18	40

Chapter 213. FTPT Information

FTPT Heading Information

Common Name:	Parm list for FRR/ESTAE (Comm Task)
Macro ID:	IEZVR001
DSECT Name:	PARMLIST, PARMDATA
Owning Component:	Communications Task (SC1CK)
Eye-Catcher ID:	None
Storage Attributes:	Main Storage: Yes Subpool: Any Key: 0
Size:	PARMLIST - 24 bytes PARMDATA - 88 bytes
Created by:	Comm task modules using IEAVMFRR as their recovery routine.
Pointed to by:	Register 2 on entry to IEAVMFRR
Serialization:	N/A
Function:	Used by the protected routine to communicate with the recovery routine. Passed to IEAVMFRR via the PARAM keyword on the ESTAE macro, or the PARMAD keyword on the SETFRR macro.

FTPT mapping

Table 873. Structure PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	24	PARMLIST	RECOVERY PARM LIST
0	(0)	CHARACTER	4	PARMSTAT	STATUS WORD
0	(0)	ADDRESS	1	PARMFTPT	FOOTPRINT BYTE
1	(1)	BITSTRING	1	PARMFLAG	FLAG BYTE
		1...		PARMSDWA	SDWA INDICATOR
		.1..		PARMCWT	CONTINUE WITH TERM. IND.
		..1.		PARMRECU	ESTAE RECURSION COUNTER
		...1		PARMFRID	FRR INDICATOR. ON = THE LEVEL OF RECOVERY ASSOCIATED WITH THIS PARMLIST IS PROTECTED BY AN FRR. HOWEVER, FOR ROUTINES INVOKED DIRECTLY BY IEAVMFRR (E.G., THE CLEANUP ROUTINE POINTED TO BY THE PARMCLAD FIELD, AND THE DUMP EXIT ROUTINE POINTED TO BY THE PARMDMPA FIELD, BUT NOT THE RETRY POINT POINTED TO BY PARMRTAD), ON = THE LEVEL OF RECOVERY ASSOCIATED WITH THIS PARMLIST IS AN FRR. This will be on for estae entry into IEAVMFRR if percolated from FRR The callers of SETFRR turn it on in the estae parameter list

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Table 873. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		PARMWARG	REG UPDATE INDICATOR
		.... .1..		PARMNDMP	NO DUMP INDICATOR
		.... ..1.		PARMCLNP	Cleanup only call
		1		PARMDPNO	Issue SETRP DUMP=NO
2	(2)	ADDRESS	1	PARMSYSR	SYSTEM SERVICE ID
3	(3)	ADDRESS	1	PARMCTBK	CONTROL BLOCK ID
4	(4)	ADDRESS	4	PARMUSER	RECOVERY USER DATA AREA ADDRESS (WAS PARMSYAD - SERVICE HANDLER ADDR)
8	(8)	ADDRESS	4	PARMCLAD	CLEANUP ROUTINE ADDRESS RECEIVES CONTROL IN PRIMARY MODE
12	(C)	ADDRESS	4	PARMRTAD	RETRY ADDRESS
16	(10)	ADDRESS	4	PARMRGAD	REGISTER SAVEAREA POINTER
20	(14)	CHARACTER	4	PARMID	MODULE ID

Table 874. Structure PARMDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	88	PARMDATA	RECOVERY USER DATA AREA
0	(0)	CHARACTER	4	PARMACRO	ACRONYM - 'PDAT'
4	(4)	UNSIGNED	1	PARMVRSN	VERSION LEVEL
5	(5)	BITSTRING	1	PARMENV	ENVIRONMENT
		1...		PARMXMCS	EXTENDED-MCS PROCESSING
6	(6)	CHARACTER	2	PARMFLGS	MISCELLANEOUS FLAGS
6	(6)	BITSTRING	1	PARMFLG1	MISCELLANEOUS FLAGS BYTE 1
		1...		PARMCCEA	TRYING TO ACCESS CCE
		.1..		PARMODTA	TRYING TO ACCESS ODT
		..1.		PARM_MULTISYSTEM_DUMP	Multisystem dump requested
		...1		PARMMSGA	TRYING TO ACCESS MESSAGE DATA SPACE
		.... 1...		PARMMDS1	MDCBMDS1 HAS BEEN SET
		.... .1..		PARMRSOK	PARMRSNC is valid
		.... ..1.		PARMFDMP	FORCE DUMP ON CLEANUP ONLY CALL
		1		PARMCMDS	CMDS COMMAND DUMP
7	(7)	BITSTRING	1	PARMFLG2	MISCELLANEOUS FLAGS BYTE 2
8	(8)	CHARACTER	8	PARMLOAD	LOAD MODULE NAME
16	(10)	CHARACTER	8	PARMCSCT	CSECT CURRENTLY IN CONTROL
24	(18)	CHARACTER	8	PARMBRCH	MODULE/SERVICE BEING BRANCHED TO
32	(20)	CHARACTER	16	PARMMDLV	MODULE LEVEL
48	(30)	CHARACTER	5	PARMCMPT	COMPONENT ID OF FAILING MODULE
53	(35)	CHARACTER	3	PARMABND	EBCDIC abend code
56	(38)	ADDRESS	4	PARMVRAD	VRA ADDRESS
60	(3C)	ADDRESS	4	PARMSDWD	SDWA ADDRESS
64	(40)	ADDRESS	4	PARMDMPA	DUMP EXIT ROUTINE ADDRESS
68	(44)	ADDRESS	4	PARMUDEF	PTR TO USER DEFINED DATA AREA
72	(48)	CHARACTER	8	PARMRSNC	Abend reason code in EBCDIC, if PARMRSOK = ON
80	(50)	CHARACTER	8	PARMSTOK	CMDS command dataspace stoken

Table 875. Constants for FTPT

Len	Type	Value	Name	Description
4	CHARACTER	PDAT	PARMACRN	ACRONYM - 'PDAT'
1	DECIMAL	1	PARMS410	SP4.1.0 VERSION LEVEL
1	DECIMAL	2	PARMS420	SP4.2.0 VERSION LEVEL
1	DECIMAL	4	PARMS703	HBB7703, OW45398
1	DECIMAL	5	PARMS705	HBB7705 VERSION LEVEL
1	DECIMAL	5	PARMVRID	CURRENT VERSION LEVEL

Table 876. Cross Reference for FTPT

Name	Offset	Hex Tag
PARM_MULTISYSTEM_DUMP	6	20
PARMABND	35	
PARMACRO	0	
PARMBRCH	18	
PARMCCEA	6	80
PARMCLAD	8	
PARMCLNP	1	02
PARMCMDS	6	01
PARMCMPT	30	
PARMCSCT	10	
PARMCTBK	3	
PARMCWT	1	40
PARMDATA	0	
PARMDMPA	40	
PARMDPNO	1	01
PARMENV	5	
PARMFDMP	6	02
PARMFLAG	1	
PARMFLGS	6	
PARMFLG1	6	
PARMFLG2	7	
PARMFRID	1	10
PARMFTPT	0	
PARMID	14	
PARMLIST	0	
PARMLOAD	8	
PARMMDLV	20	
PARMMDS1	6	08
PARMMSGA	6	10
PARMNDMP	1	04
PARMODTA	6	40
PARMRECU	1	20
PARMRGAD	10	
PARMRSNC	48	
PARMRSOK	6	04
PARMRTAD	C	
PARMSDWA	1	80
PARMSDWD	3C	
PARMSTAT	0	
PARMSTOK	50	

Table 876. Cross Reference for FTPT (continued)

Name	Offset	Hex Tag
PARMSYSR	2	
PARMUDEF	44	
PARMUSER	4	
PARMVRAD	38	
PARMVRSN	4	
PARMWARG	1	08
PARMXMCS	5	80

Chapter 214. FUNCFLGS Information

FUNCFLGS Programming Interface Information

FUNCFLGS is a programming interface.

FUNCFLGS Heading Information

Common Name:	Parameter Mappings for IEFAB4UV and IEFEB4UV
Macro ID:	IEFZB4UV
DSECT Name:	FUNCFLGS, UNITTAB, GROUPIDD, ATTRIBUTS, UNITADRS, NAMELS12, UCBLIST4, UCBLIST5
Owning Component:	Allocation (SC1B4)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: For IEFAB4UV - Subpool 230. For IEFEB4UV - Problem program subpool. Key: For IEFAB4UV - Key 1. For IEFEB4UV - Problem program key.
Size:	Varies dependent on function
Created by:	Callers of IEFAB4UV or IEFEB4UV
Pointed to by:	Register 1 points to a pointer to the function flags and a pointer to the unit table on entry to IEFAB4UV or IEFEB4UV.
Serialization:	None
Function:	To map the parameters to IEFAB4UV or IEFEB4UV. These modules are service routines to provide information from the Eligible Device Table (EDT). IEFAB4UV is for authorized callers; IEFEB4UV is for unauthorized callers. These modules have two parameters: two bytes of function flags, and a unit table. The format and length of the unit table is dependent on the function/functions requested.

FUNCFLGS mapping

Table 877. Structure FUNCFLGS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FUNCFLGS	INPUT FUNCTION FLAGS
0	(0)	BITSTRING	1	FUNCFLG1	FIRST BYTE OF FLAGS
		1...		CHKGROUP	"X'80'" CHECK FOR GROUP SPLITTING
		.1..		CHKUNITS	"X'40'" CHECK FOR CORRECT UNITS
		..1.		RETNUNIT	"X'20'" RETURN UNIT NAME
		...1		RETNUCBS	"X'10'" RETURN UCB ADDRESSES
		.... 1...		RETGRPID	"X'08'" RETURN GROUP ID FUNCTION
		.... .1..		LUVDEVB	"X'04'" INPUT LUV OR DEVICE TYPE FOR CHECK UNIT OR RETURN UCB ADDRESS FUNCTIONS
		.... ..1.		RETNLUV	"X'02'" RETURN LOOK-UP VALUE
		1		CNVTLUV	"X'01'" CONVERT DEV TYPE TO LUV
1	(1)	BITSTRING	1	FUNCFLG2	SECOND BYTE OF FLAGS
		1...		RETNATRB	"X'80'" RETURN ATTRIBUTES

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Table 877. Structure FUNCFLGS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CHKUNSTR	"X'40'" DO NOT STORE INTO PARMLIST
		..1.		SPECSUBP	"X'20'" USER SPECIFIED SUBPOOL FOR RETURN UCBS
		...1		RETNNAME	"X'10'" RETURN LIST OF UNIT NAMES
		.... 1...		OVERRIDE	"X'08'" Indicates to check if the specified unit name can override.

Table 878. Structure UNITTAB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UNITTAB	UNIT TABLE
0	(0)	SIGNED	4	(0)	MAKE ON A WORD BOUNDARY
0	(0)	CHARACTER	8	UNITNM(0)	UNIT NAME
0	(0)	ADDRESS	4	UNGRPIDP(0)	PTR TO GROUP ID TABLE
0	(0)	CHARACTER	4	LUVDEVT	LUV OR DEVICE TYPE INPUT FOR CHECK UNIT FUNCTION
4	(4)	ADDRESS	4	UNUCBL5P	PTR TO INPUT UCB LIST
8	(8)	SIGNED	4	(0)	MAKE ON A WORD BOUNDARY
8	(8)	CHARACTER	4	UNLUVDEV(0)	LOOK-UP VAL OR DEV TYPE
8	(8)	ADDRESS	4	UNUCBL4P(0)	RETURN UCB LIST PTR
8	(8)	SIGNED	4	UNITNUMB	NUM OF UNIT ADDRS SUPPLIED
12	(C)	ADDRESS	4	UNITADDP(0)	UNIT ADDRESS TABLE PTR
12	(C)	ADDRESS	4	UNATRIBP	UNIT ATTIBUTES PTR
16	(10)	SIGNED	2	UNSUBPL	UNIT SUBPOOL FOR UCB LIST
18	(12)	CHARACTER	1	UNDEVCL	DEVICE CLASS FOR SEARCH
19	(13)	CHARACTER	1		RESERVED
20	(14)	SIGNED	4		RESERVED

Table 879. Structure GROUPIDD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GROUPIDD	GROUP ID DSECT POINTED TO BY UNGRPIDP
0	(0)	SIGNED	4	GROUPID	ARRAY OF GROUP IDS

Table 880. Structure UCBLIST5

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UCBLIST5	INPUT UCB LIST (FUNC 5) POINTED TO BY UNUCBL5P
0	(0)	SIGNED	4	LIST5NUM	NUMBER ENTRIES
4	(4)	ADDRESS	4	LIST5UCB	ARRAY OF UCB ADDRESSES

Table 881. Structure UCBLIST4

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UCBLIST4	RETURNED UCB LIST (FUNC 4) POINTED TO BY UNUCBL4P
0	(0)	DBL WORD	8	LIST4HDR(0)	
0	(0)	ADDRESS	1	LIST4SP	SUBPOOL OF LIST
1	(1)	ADDRESS	3	LIST4SIZ	LENGTH OF LIST
4	(4)	SIGNED	4	LIST4NUM	NUMBER OF ENTRIES
8	(8)	ADDRESS	4	LIST4UCB	ARRAY OF UCB ADDRESSES

Table 882. Structure NAMELS12

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NAMELS12	RETURNED NAME LIST (FUNC12) POINTED TO BY UNNML12P
0	(0)	DBL WORD	8	LST12HDR(0)	
0	(0)	ADDRESS	1	LST12SPL	SUBPOOL OF LIST
1	(1)	ADDRESS	3	LST12SIZ	LENGTH OF LIST
4	(4)	SIGNED	4	LST12NUM	NUMBER OF ENTRIES
8	(8)	CHARACTER	8	LST12NAM	ARRAY OF UNIT NAMES

Table 883. Structure UNITADRS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UNITADRS	UNIT ADDRESSES (FUNC 1,2) POINTED TO BY UNITADDP
0	(0)	SIGNED	4	(0)	MAKE ON A WORD BOUNDARY
0	(0)	CHARACTER	3	ADDRS	ARRAY OF EBCDIC ADDRESSES
3	(3)	BITSTRING	1	UNADRFLG	UNIT ADDRESS FLAG
		1...		INVALID	"X'80'" INVALID ADDRESS
		.1..		UNITERR	"X'40'" UNIT NOT ASSOCIATED WITH INPUT UNIT NAME

Table 884. Structure ATRIBUTS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ATRIBUTS	UNIT ATTRIBUTES (FUNC 9) POINTED TO BY UNATRIBP
0	(0)	SIGNED	4	(0)	MAKE ON A WORD BOUNDARY
0	(0)	SIGNED	1	ATRLEN	LENGTH OF AREA
1	(1)	BITSTRING	2	ATRFLGS(0)	ATTRIBUTE FLAGS
1	(1)	BITSTRING	1	ATRFLG1	FIRST BYTE OF FLAGS
		1...		ESOTERIC	"X'80'" UNIT IS AN ESOTERIC
		.1..		VIOELIG	"X'40'" UNIT IS VIO ELIGIBLE
		..1.		V3330	"X'20'" CONTAINS 3330V UNITS
		...1		TPCLASS	"X'10'" CONTAINS TP DEVICES
2	(2)	BITSTRING	1	ATRFLG2	SECOND BYTE OF FLAGS
		1...		OVERESO	"X'80'" Indicates the specified unit name is an overriding esoteric.
3	(3)	CHARACTER	1	DEVCLAS#	NUM OF DEVICE CLASSES
4	(4)	CHARACTER	4	GENDEV#	NUM OF GENERIC DEV. TYPES

Table 884. Structure ATRIBUTS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	CHARACTER	2		RESERVED
8	(8)	X'A'	0	ATRLENC	"*-ATRIBUTS" LENGTH OF ATRIBUTS
		RETURN CODE CONSTANTS			
12	(C)	SIGNED	4	SUCES4UV	SUCCESSFUL OPERATION
16	(10)	SIGNED	4	NAMER4UV	INPUT VALUE NOT FOUND IN EDT
20	(14)	SIGNED	4	UNITR4UV	INCORRECT UNITS ASSOCIATED WITH UNIT NAME
24	(18)	SIGNED	4	GRPER4UV	INVALID DEVICE GROUPINGS FOR INPUT UNIT ADDRESSES
28	(1C)	SIGNED	4	GETER4UV	GETMAIN ERROR
32	(20)	SIGNED	4	ADDRE4UV	INPUT UNIT ADDRESS INVALID
36	(24)	SIGNED	4	ENVER4UV	ENVIRONMENT NOT SET UP
40	(28)	SIGNED	4	FNCER4UV	INVALID, MUTUALLY EXCLUSIVE, AND/OR NO FUNCTION REQUESTED OR NO LIST INPUT FOR FUNCTION 1, 2, 5, OR 9
44	(2C)	SIGNED	4	ATRPT4UV	A pointer to the attribute area is required for the specified function(s) but is zero.
48	(30)	SIGNED	4	NOTAC4UV	None of the units within the specified unit name are accessible via the IEFEB4UV /IEFAB4UV/IEFGB4UV interface (i.e. no 3-digit, STATIC, devices with 24-bit UCBs).

Table 885. Cross Reference for FUNCFLGS

Name	Offset	Hex Tag
ADDRE4UV	20	14
ADDRS	0	
ATRFLGS	1	
ATRFLG1	1	
ATRFLG2	2	
ATRIBUTS	0	
ATRLEN	0	
ATRLENC	8	A
ATRPT4UV	2C	20
CHKGROUP	0	80
CHKUNITS	0	40
CHKUNSTR	1	40
CNVTLUV	0	1
DEVCLAS#	3	
ENVER4UV	24	18
ESOTERIC	1	80
FNCER4UV	28	1C
FUNCFLGS	0	
FUNCFLG1	0	
FUNCFLG2	1	
GENDEV#	4	

Table 885. Cross Reference for FUNCFLGS (continued)

Name	Offset	Hex Tag
GETER4UV	1C	10
GROUPID	0	
GROUPIDD	0	
GRPER4UV	18	C
INVALID	3	80
LIST4HDR	0	
LIST4NUM	4	
LIST4SIZ	1	
LIST4SP	0	
LIST4UCB	8	
LIST5NUM	0	
LIST5UCB	4	
LST12HDR	0	
LST12NAM	8	
LST12NUM	4	
LST12SIZ	1	
LST12SPL	0	
LUVDEVB	0	4
LUVDEVT	0	
NAMELS12	0	
NAMER4UV	10	4
NOTAC4UV	30	24
OVERESO	2	80
OVERRIDE	1	8
RETGRPID	0	8
RETNATRB	1	80
RETNLUV	0	2
RETNNAME	1	10
RETNUCBS	0	10
RETNUNIT	0	20
SPECSUBP	1	20
SUCES4UV	C	0
TPCLASS	1	10
UCBLIST4	0	
UCBLIST5	0	
UNADRFLG	3	
UNATRIBP	C	
UNDEVCL	12	
UNGRPIDP	0	
UNITADDP	C	
UNITADRS	0	
UNITERR	3	40
UNITNM	0	
UNITNUMB	8	
UNITR4UV	14	8
UNITTAB	0	
UNLUVDEV	8	
UNSUBPL	10	
UNUCBL4P	8	

Table 885. Cross Reference for FUNCFLGS (continued)

Name	Offset	Hex Tag
UNUCBL5P	4	
VIOELIG	1	40
V3330	1	20

Chapter 215. GDA Information

GDA Programming Interface Information

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

- GDA_CSA_ALLOC
- GDA_CSA_CONV
- GDA_ECSA_ALLOC
- GDA_ECSA_CONV
- GDA_ESQA_ALLOC
- GDA_SQA_ALLOC
- GDACSA
- GDACSACV
- GDACSAHWM
- GDACSASZ
- GDACSATR
- GDADGQAT@
- GDAECSA
- GDAECSAHWM
- GDAECSAS
- GDAEPVT
- GDAEPVTS
- GDAESQA
- GDAESQAHWM
- GDAESQAS
- GDAFCAUB
- GDAGQAT_INDEX
- GDALCAUB
- GDAPVT
- GDAPVTSZ
- GDASCAUB
- GDASQA
- GDASQAHWM
- GDASQASZ
- GDASQATR
- GDASYVAB
- GDATotalCSAHWM
- GDATotalECSAHWM
- GDATRACKINGTIMESTAMPS
- GDAUCAUB
- GDAVR
- GDAVREGS
- GDAVRSZ

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GDA Heading Information

Common Name: Global Data Area Block
Macro ID: IHAGDA
DSECT Name: GDA
Owning Component: Virtual Storage Manager (SC1CH)
Eye-Catcher ID: GDA
Offset: 0
Length: 4
Storage Attributes: Subpool: 245
Key: 0
Residency: Above 16M line
Size: GDA -- X'0310' bytes
Created by: IEAIPL04
Pointed to by: CVTGDA
Serialization: VSMFIX LOCK
Function: CONTROL BLOCK USED BY VSM TO CONTAIN INFORMATION ABOUT SYSTEM RELATED VIRTUAL STORAGE AND TO ANCHOR SQA AND CSA QUEUES

GDA mapping

Table 886. Structure GDA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GDA	GLOBAL DATA AREA
0	(0)	CHARACTER	4	GDAID	CONTROL BLOCK IDENTIFIER
4	(4)	CHARACTER	24	GDAQANC5(0)	SUBPOOL 245 QUEUE ANCHORS
4	(4)	ADDRESS	4	GDASQAT5	ADDRESS OF THE SUBPOOL 245 SIZE QUEUE ANCHOR TABLE
8	(8)	ADDRESS	4	GDAAQAT5	ADDRESS OF THE SUBPOOL 245 ADDRESS QUEUE ANCHOR TABLE
12	(C)	CHARACTER	16	GDADFEQ5(0)	SUBPOOL 245 DFE QUEUE HEADER
12	(C)	ADDRESS	4	GDAADF45	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 245 ADDRESS QUEUE
16	(10)	ADDRESS	4	GDAADL45	ADDRESS OF THE LAST DFE ON THE SUBPOOL 245 ADDRESS QUEUE
20	(14)	ADDRESS	4	GDASZF45	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 245 SIZE QUEUE
24	(18)	ADDRESS	4	GDASZL45	ADDRESS OF THE LAST DFE ON THE SUBPOOL 245 SIZE QUEUE
28	(1C)	CHARACTER	24	GDAEANC5(0)	SUBPOOL 245 QUEUE ANCHORS - EXTENDED
28	(1C)	ADDRESS	4	GDAESQT5	ADDRESS OF THE SUBPOOL 245 SIZE QUEUE ANCHOR TABLE
32	(20)	ADDRESS	4	GDAEAQT5	ADDRESS OF THE SUBPOOL 245 ADDRESS QUEUE ANCHOR TABLE
36	(24)	CHARACTER	16	GDAEDFE5(0)	SUBPOOL 245 DFE QUEUE HEADER
36	(24)	ADDRESS	4	GDAEADF5	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 245 ADDRESS QUEUE
40	(28)	ADDRESS	4	GDAEADL5	ADDRESS OF THE LAST DFE ON THE SUBPOOL 245 ADDRESS QUEUE
44	(2C)	ADDRESS	4	GDAESZF5	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 245 SIZE QUEUE

Table 886. Structure GDA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	ADDRESS	4	GDAESZL5	ADDRESS OF THE LAST DFE ON THE SUBPOOL 245 SIZE QUEUE
52	(34)	CHARACTER	24	GDAQANC6(0)	SUBPOOL 226 QUEUE ANCHORS
52	(34)	ADDRESS	4	GDASQAT6	ADDRESS OF THE SUBPOOL 226 SIZE QUEUE ANCHOR TABLE
56	(38)	ADDRESS	4	GDAAQAT6	ADDRESS OF THE SUBPOOL 226 ADDRESS QUEUE ANCHOR TABLE
60	(3C)	CHARACTER	16	GDADFEQ6(0)	SUBPOOL 226 DFE QUEUE HEADER
60	(3C)	ADDRESS	4	GDAADF26	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 226 ADDRESS QUEUE
64	(40)	ADDRESS	4	GDAADL26	ADDRESS OF THE LAST DFE ON THE SUBPOOL 226 ADDRESS QUEUE
68	(44)	ADDRESS	4	GDASZF26	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 226 SIZE QUEUE
72	(48)	ADDRESS	4	GDASZL26	ADDRESS OF THE LAST DFE ON THE SUBPOOL 226 SIZE QUEUE
76	(4C)	CHARACTER	24	GDAEANC6(0)	Subpool 226 Queue Anchors - Extended
76	(4C)	ADDRESS	4	GDAESQT6	Address of the subpool 226 Size Queue Anchor Table
80	(50)	ADDRESS	4	GDAEAQT6	Address of the subpool 226 Address Queue Anchor Table
84	(54)	CHARACTER	16	GDAEDFE6(0)	Subpool 226 DFE queue header
84	(54)	ADDRESS	4	GDAEADF6	Address of the first DFE on the subpool 226 address queue
88	(58)	ADDRESS	4	GDAEADL6	Address of the last DFE on the subpool 226 address queue
92	(5C)	ADDRESS	4	GDAESZF6	Address of the first DFE on the subpool 226 size queue
96	(60)	ADDRESS	4	GDAESZL6	Address of the last DFE on the subpool 226 size queue
100	(64)	CHARACTER	16	GDACSARD(0)	CSA REGION DESCRIPTOR
100	(64)	ADDRESS	4	GDAFBQCF	ADDRESS OF THE FIRST CSA FBQE
104	(68)	ADDRESS	4	GDAFBQCL	ADDRESS OF THE LAST CSA FBQE
108	(6C)	ADDRESS	4	GDACSA	LOWEST ADDRESS OF CSA (PSPI)
112	(70)	SIGNED	4	GDACSASZ	SIZE OF CSA (PSPI)
116	(74)	CHARACTER	16	GDAECRD(0)	CSA REGION DESCRIPTOR - EXTENDED
116	(74)	ADDRESS	4	GDAEFBCF	ADDRESS OF THE FIRST EXTENDED CSA FBQE
120	(78)	ADDRESS	4	GDAEFBCL	ADDRESS OF THE LAST EXTENDED CSA FBQE
124	(7C)	ADDRESS	4	GDAECSA	LOWEST ADDRESS OF EXTENDED CSA (PSPI)
128	(80)	SIGNED	4	GDAECSAS	SIZE OF EXTENDED CSA (PSPI)
132	(84)	SIGNED	4	GDACSARE	AMOUNT OF UNALLOCATED COMMON AREA LEFT (CSA + SQA) Note that ECSA and ESQA are NOT included in this count.
136	(88)	ADDRESS	4	GDASPT	ADDRESS OF CSA SUBPOOL TABLE
140	(8C)	SIGNED	4	GDACSACV	AMOUNT OF CSA CONVERTED TO SQA (PSPI)
144	(90)	ADDRESS	4	GDASQA	ADDRESS OF START OF SQA AREA (PSPI)

Table 886. Structure GDA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
148	(94)	SIGNED	4	GDASQASZ	Size of SQA. This gives the amount of storage that is set aside to fulfill SQA GETMAINs. In other words, this defines the maximum number of bytes that can be GETMAINed from SQA. (PSPI)
152	(98)	ADDRESS	4	GDAESQA	ADDRESS OF START OF SQA AREA - EXTENDED (PSPI)
156	(9C)	SIGNED	4	GDAESQAS	Size of extended SQA. This gives the amount of storage that is set aside to fulfill extended SQA GETMAINs. In other words, this defines the maximum number of bytes that can be GETMAINed from extended SQA. (PSPI)
160	(A0)	ADDRESS	4	GDAPVT(0)	ADDRESS OF START OF PRIVATE AREA (PSPI)
160	(A0)	ADDRESS	4	PASTRT	ADDRESS OF START OF PRIVATE AREA
164	(A4)	SIGNED	4	GDAPVTSZ(0)	SIZE OF PRIVATE AREA (PSPI)
164	(A4)	SIGNED	4	PASIZE	SIZE OF PRIVATE AREA
168	(A8)	ADDRESS	4	GDAEPVT	ADDRESS OF START OF PRIVATE AREA - EXTENDED (PSPI)
172	(AC)	SIGNED	4	GDAEPVTS	SIZE OF PRIVATE AREA - EXTENDED (PSPI)
176	(B0)	CHARACTER	12	GDACPANC(0)	SQA CELL POOL HEADER
176	(B0)	ADDRESS	4	GDACPADR	ADDRESS OF VSM'S SQA CELL POOL
180	(B4)	SIGNED	4	GDACPCNT	NUMBER OF FREE CELLS IN VSM'S SQA CELL POOL
184	(B8)	ADDRESS	4	GDAFCADR	ADDRESS OF FIRST FREE CELL IN VSM'S SQA CELL POOL
188	(BC)	ADDRESS	4	GDACPAB	ADDRESS OF PERMANENT CPAB TABLE
192	(C0)	ADDRESS	4	GDAVR	ADDRESS OF GLOBAL V=R AREA (PSPI)
196	(C4)	SIGNED	4	GDAVRSZ	SIZE OF GLOBAL V=R AREA (PSPI)
200	(C8)	SIGNED	4	GDAVREGS	DEFAULT V=R REGION SIZE (PSPI)
204	(CC)	ADDRESS	4	GDAWRKA	ADDRESS OF GLOBAL WORKAREA IN NUCLEUS
208	(D0)	ADDRESS	4	GDARGR	ADDRESS OF REGION REQUEST ELEMENT QUEUE
212	(D4)	ADDRESS	4	GDASPTT	ADDRESS OF SUBPOOL TRANSLATION TABLE
216	(D8)	CHARACTER	2	GDAFLGS(0)	MISCELLANEOUS FLAGS
216	(D8)	CHARACTER	1	GDAFLGS0(0)	
		1...		GDALOW1	"X'80'" IF ONE COMMON AREA FREE SPACE IS BELOW THRESHOLD 1
		.1..		GDALOW2	"X'40'" IF ONE COMMON AREA FREE SPACE IS BELOW THRESHOLD 2
		..1.		GDAGFSTR	"X'20'" Indicates that GETMAIN/FREEMAIN/STORAGE (GFS) trace is active ('1'B) or inactive ('0'B).

Table 886. Structure GDA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		GDASQAOK	"X'10'" Indicates whether IEAVNP08 has finished processing the SQA parameter. '0'B => IEAVNP08 has *NOT* finished. '1'B => IEAVNP08 is done. Supervisor control interrogates this bit, and builds pools for the linkage stacks only after the SQA parameter has been processed. If the attempt to obtain storage for the linkage stack fails because SQA has been exhausted, then only a re-IPL (with more SQA) is required. If supervisor builds the linkage stack pools *before* the SQA parameter is processed, then an 'SQA exhausted' error would require a ZAP to increase the size of initial SQA. This bit is implicitly initialized to '0'B when IEAIPL04 builds the GDA. Serialization: None.
		The following 2 fields indicate whether the VSM function that collects data about who is using SQA and CSA is active ('1'B) or inactive ('0'B). Write serialization: VSMFIX and VSMPAG. Read serialization: VSMFIX or VSMPAG.			
		.... 1...		GDACSATR	"X'08'"
		Indicates whether the VSM function that collects data about who is using CSA is active ('1'B) or inactive ('0'B). (PSPI)			
		.... .1..		GDASQATR	"X'04'"
		Indicates whether the VSM function that collects data about who is using SQA is active ('1'B) or inactive ('0'B). (PSPI)			
		.... ..1.		GDASTTC	"X'02'" Subpool Translation Table complete. Set when the the subpool table indices have been set to their final values. Prior to this, requests for storage from LSQA (SP203-5,213-15,223-25,233-35, 253-55) were satisfied from SP 245. '0'B ==> LSQA getmains satisfied from SP 245 '1'B ==> LSQA getmains satisfied from subpools specified
		1		GDAUKCSA	"X'01'" User key CSA has been obtained at least once since the last time Health Checker reported the condition
217	(D9)	CHARACTER	1	GDAFLGS1(0)	
		11..		GDADPACT	"X'C0'" Common storage Detect/Protect
		1...		GDADETA	"X'80'" Common storage Detect active

Table 886. Structure GDA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		GDAPROTA	"X'40'" Common storage Protect active
218	(DA)	CHARACTER	2		RESERVED
220	(DC)	ADDRESS	4	GDACSADR	ADDRESS OF CSA DEFERED RELEASE FBQE QUEUE
224	(E0)	ADDRESS	4	GDAWRKAP	ADDRESS OF WORK AREA FOR PAGABLE CSA
228	(E4)	CHARACTER	24	GDAQANC9(0)	SUBPOOL 239 QUEUE ANCHORS
228	(E4)	ADDRESS	4	GDASQAT9	ADDRESS OF THE SUBPOOL 239 SIZE QUEUE ANCHOR TABLE
232	(E8)	ADDRESS	4	GDAAQAT9	ADDRESS OF THE SUBPOOL 239 ADDRESS QUEUE ANCHOR TABLE
236	(EC)	CHARACTER	16	GDADFEQ9(0)	SUBPOOL 239 DFE QUEUE HEADER
236	(EC)	ADDRESS	4	GDAADF39	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 239 ADDRESS QUEUE
240	(F0)	ADDRESS	4	GDAADL39	ADDRESS OF THE LAST DFE ON THE SUBPOOL 239 ADDRESS QUEUE
244	(F4)	ADDRESS	4	GDASZF39	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 239 SIZE QUEUE
248	(F8)	ADDRESS	4	GDASZL39	ADDRESS OF THE LAST DFE ON THE SUBPOOL 239 SIZE QUEUE
252	(FC)	CHARACTER	24	GDAEANC9(0)	SUBPOOL 239 QUEUE ANCHORS - EXTENDED
252	(FC)	ADDRESS	4	GDAESQT9	ADDRESS OF THE SUBPOOL 239 SIZE QUEUE ANCHOR TABLE
256	(100)	ADDRESS	4	GDAEAQT9	ADDRESS OF THE SUBPOOL 239 ADDRESS QUEUE ANCHOR TABLE
260	(104)	CHARACTER	16	GDAEDFE9(0)	SUBPOOL 239 DFE QUEUE HEADER
260	(104)	ADDRESS	4	GDAEADF9	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 239 ADDRESS QUEUE
264	(108)	ADDRESS	4	GDAEADL9	ADDRESS OF THE LAST DFE ON THE SUBPOOL 239 ADDRESS QUEUE
268	(10C)	ADDRESS	4	GDAESZF9	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 239 SIZE QUEUE
272	(110)	ADDRESS	4	GDAESZL9	ADDRESS OF THE LAST DFE ON THE SUBPOOL 239 SIZE QUEUE
276	(114)	ADDRESS	4	GDAPPDPG	ADDRESS OF PAGEABLE PPD QUEUE
280	(118)	ADDRESS	4	GDAPPDFX	ADDRESS OF FIXED PPD QUEUE
284	(11C)	CHARACTER	16	GDANONFM(0)	NON-FREEMAINABLE COMMON AREAS
284	(11C)	CHARACTER	8	GDASM(0)	NON-FREEMAINABLE STORAGE MANAGEMENT AREA
284	(11C)	ADDRESS	4	GDASMAD	ADDRESS OF AREA
288	(120)	SIGNED	4	GDASMSZ	SIZE OF AREA
292	(124)	CHARACTER	8	GDAPGT(0)	NON-FREEMAINABLE PAGE TABLE AREA
292	(124)	ADDRESS	4	GDAPGTAD	ADDRESS OF AREA
296	(128)	SIGNED	4	GDAPGTSZ	SIZE OF AREA
300	(12C)	CHARACTER	24	GDAQANC7	RESERVED
324	(144)	CHARACTER	24	GDAEANC7(0)	SUBPOOL 247 QUEUE ANCHORS - EXTENDED
324	(144)	ADDRESS	4	GDAESQT7	ADDRESS OF THE SUBPOOL 247 SIZE QUEUE ANCHOR TABLE
328	(148)	ADDRESS	4	GDAEAQT7	ADDRESS OF THE SUBPOOL 247 ADDRESS QUEUE ANCHOR TABLE
332	(14C)	CHARACTER	16	GDAEDFE7(0)	SUBPOOL 247 DFE QUEUE HEADER

Table 886. Structure GDA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
332	(14C)	ADDRESS	4	GDAEADF7	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 247 ADDRESS QUEUE
336	(150)	ADDRESS	4	GDAEADL7	ADDRESS OF THE LAST DFE ON THE SUBPOOL 247 ADDRESS QUEUE
340	(154)	ADDRESS	4	GDAESZF7	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 247 SIZE QUEUE
344	(158)	ADDRESS	4	GDAESZL7	ADDRESS OF THE LAST DFE ON THE SUBPOOL 247 SIZE QUEUE
348	(15C)	CHARACTER	24	GDAQANC8	RESERVED
372	(174)	CHARACTER	24	GDAEANC8(0)	SUBPOOL 248 QUEUE ANCHORS - EXTENDED
372	(174)	ADDRESS	4	GDAESQT8	ADDRESS OF THE SUBPOOL 248 SIZE QUEUE ANCHOR TABLE
376	(178)	ADDRESS	4	GDAEAQT8	ADDRESS OF THE SUBPOOL 248 ADDRESS QUEUE ANCHOR TABLE
380	(17C)	CHARACTER	16	GDAEDFE8(0)	SUBPOOL 248 DFE QUEUE HEADER
380	(17C)	ADDRESS	4	GDAEADF8	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 248 ADDRESS QUEUE
384	(180)	ADDRESS	4	GDAEADL8	ADDRESS OF THE LAST DFE ON THE SUBPOOL 248 ADDRESS QUEUE
388	(184)	ADDRESS	4	GDAESZF8	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 248 SIZE QUEUE
392	(188)	ADDRESS	4	GDAESZL8	ADDRESS OF THE LAST DFE ON THE SUBPOOL 248 SIZE QUEUE
396	(18C)	ADDRESS	4	GDATRAC	Address of the GETMAIN/FREEMAIN/STORAGE (GFS) trace anchor block. Serialization: Read=none, Write=none. (Only IEAIPL04 writes this field.)
400	(190)	SIGNED	4	GDAESTSZ	Size of RSM's ESTE. Computed by IPL04, passed to NPA8.
		Fields related to tracking CSA. Unless noted otherwise, read serialization for all fields is none, and write serialization for all fields is the VSMFIX lock. To find more information about what these fields point to, see the mapping macro IGVCAUB.			
404	(194)	ADDRESS	4	GDASCAUB	Address of the system CAUB. (PSPI)
408	(198)	ADDRESS	4	GDAUCAUB	Address of the unknown CAUB. (PSPI)
412	(19C)	ADDRESS	4	GDAFCAUB	Address of the first CAUB on the unowned queue. (PSPI)
416	(1A0)	ADDRESS	4	GDALCAUB	Address of the last CAUB on the unowned queue. (PSPI)
420	(1A4)	ADDRESS	4	GDAGQAT_INDEX	Address of the GQAT Index Table (PSPI)
424	(1A8)	BITSTRING	1	GDAFLAGS0(0)	Flags
		1...		GDATRACKINGPERMANENTLYOFF	"X'80'" An error was detected while processing common storage tracking. Tracking was disabled and may not be restarted.

Table 886. Structure GDA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		GDATRACKINGCLEANEDUP	"X'40'" Indicates whether or not things have been cleaned up following setting of the TrackingPermanentlyOff bit.
425	(1A9)	BITSTRING	1	GDAFLAGS1	Flags
426	(1AA)	BITSTRING	1	GDAFLAGS2	Flags
427	(1AB)	BITSTRING	1	GDAFLAGS3	Flags
428	(1AC)	CHARACTER	4		Reserved
		The following fields contain counts of how much common storage is GETMAINed.			
432	(1B0)	SIGNED	4	GDA_CSA_ALLOC	Total non-extended CSA currently GETMAINed. (PSPI)
436	(1B4)	SIGNED	4	GDA_ECSA_ALLOC	Total extended CSA currently GETMAINed (PSPI)
440	(1B8)	SIGNED	4	GDA_SQA_ALLOC	Total non-extended SQA currently GETMAINed. This includes SQA that has been converted from CSA. Note that this does not include portions of pages that are free. That is, only GETMAINed storage is included here. (PSPI)
444	(1BC)	SIGNED	4	GDA_ESQA_ALLOC	Total extended SQA currently GETMAINed This includes ESQA that has been converted from ECSA. Note that this does not include portions of pages that are free. That is, only GETMAINed storage is included here. (PSPI)
448	(1C0)	SIGNED	4	GDA_CSA_CONV	Total non-extended CSA currently converted to non-extended SQA. (This includes portions of pages that are free.) (PSPI)
452	(1C4)	SIGNED	4	GDA_ECSA_CONV	Total extended CSA currently converted to to extended SQA. (This includes portions of pages that are free.) (PSPI)
456	(1C8)	CHARACTER	12	GDACAANC(0)	CAUB Cell pool header
456	(1C8)	ADDRESS	4	GDACAADR	ADDRESS OF VSM'S CAUB Cell pool
460	(1CC)	SIGNED	4	GDACACNT	NUMBER OF FREE CELLS IN VSM'S CAUB CELL POOL
464	(1D0)	ADDRESS	4	GDAFCAAD	ADDRESS OF FIRST FREE CELL IN VSM'S CAUB Cell pool
468	(1D4)	CHARACTER	12	GDAVAANC(0)	VAB Cell pool header
468	(1D4)	ADDRESS	4	GDAVAADR	ADDRESS OF VSM'S VAB Cell pool
472	(1D8)	SIGNED	4	GDAVACNT	NUMBER OF FREE CELLS IN VSM'S VAB CELL POOL
476	(1DC)	ADDRESS	4	GDAFVAAD	ADDRESS OF FIRST FREE CELL IN VSM'S VAB Cell pool
480	(1E0)	ADDRESS	4	GDASJOB@	Address of job start/stop service routine. This is not an intended interface.
484	(1E4)	ADDRESS	4	GDASYVAB	Address of system VAB. (PSPI)

Table 886. Structure GDA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
488	(1E8)	CHARACTER	12	GDACSAGQECPANC(0)	CSA GQE Cell pool header
488	(1E8)	ADDRESS	4	GDACSAGQECPADR	Csa GQE cell pool address
492	(1EC)	SIGNED	4	GDACSAGQECPCNT	Number of free cells
496	(1F0)	ADDRESS	4	GDACSAGQEFCADR	First free cell
500	(1F4)	ADDRESS	4	GDADGQAT@	Address of dummy GQAT (PSPI)
504	(1F8)	CHARACTER	12	GDASQAGQECPANC(0)	SQA GQE Cell pool header
504	(1F8)	ADDRESS	4	GDASQAGQECPADR	Sqa GQE cell pool address
508	(1FC)	SIGNED	4	GDASQAGQECPCNT	Number of free cells
512	(200)	ADDRESS	4	GDASQAGQEFCADR	First free cell
516	(204)	CHARACTER	16	GDATRACKINGTIMESTAMPS(0)	Everything in this substructure is PSPI.
516	(204)	CHARACTER	8	GDACSATRACKINGTIMESTAMPS(0)	(PSPI)
516	(204)	SIGNED	4	GDACSATRACKINGLASTON	Bits 0-31 of TOD clock when CSA tracking was last turned on. 0 if unchanged since IPL.
520	(208)	SIGNED	4	GDACSATRACKINGLASTOFF	Bits 0-31 of TOD clock when CSA tracking was last turned off. 0 if unchanged since IPL.
524	(20C)	CHARACTER	8	GDASQATRACKINGTIMESTAMPS(0)	
524	(20C)	SIGNED	4	GDASQATRACKINGLASTON	Bits 0-31 of TOD clock when SQA tracking was last turned on. 0 if unchanged since IPL.
528	(210)	SIGNED	4	GDASQATRACKINGLASTOFF	Bits 0-31 of TOD clock when SQA tracking was last turned off. 0 if unchanged since IPL.
532	(214)	SIGNED	4	GDADOMID_IGV002E	
536	(218)	SIGNED	4	GDASQAHWM	GDA_SQA_ALLOC high water mark
540	(21C)	SIGNED	4	GDAESQAHWM	GDA_ESQA_ALLOC high water mark
544	(220)	SIGNED	4	GDACSAHWM	GDA_CSA_Alloc high water mark
548	(224)	SIGNED	4	GDAECSAHWM	GDA_ECSA_Alloc high water mark
552	(228)	SIGNED	4	GDATOTALCSAHWM	(GDA_CSA_Alloc + GDA_CSA_Conv) high water mark
556	(22C)	SIGNED	4	GDATOTALECSAHWM	(GDA_ECSA_Alloc+GDA_ECSA_Conv) high water mark
560	(230)	CHARACTER	4	GDANOCSADUMPTIMESTAMPH	When last dump taken for "NO CSA". High 32 bits
564	(234)	CHARACTER	4	GDANOSQADUMPTIMESTAMPH	When last dump taken for "NO SQA". High 32 bits
		THE FOLLOWING FIELDS WILL CONTAIN EITHER THE BASE THRESHOLD VALUES DEFINED BELOW OR THE THRESHOLD VALUES DEFINED BY THE CUSTOMER. THESE THRESHOLD VALUES ARE SET AT IPL TIME.			
568	(238)	SIGNED	4	GDAHISUF	SRM CSA/SQA SPACE HIGH THRESHOLD - SUFFICIENT SPACE
572	(23C)	SIGNED	4	GDALOSUF	SRM CSA/SQA SPACE LOW THRESHOLD - SUFFICIENT SPACE
576	(240)	SIGNED	4	GDAHIINS	SRM CSA/SQA SPACE HIGH THRESHOLD - INSUFFICIENT SPACE
580	(244)	SIGNED	4	GDALOINS	SRM CSA/SQA SPACE LOW THRESHOLD - INSUFFICIENT SPACE
584	(248)	CHARACTER	24	GDAQANC5R64(0)	Subpool 245 queue anchors V24 R64

Table 886. Structure GDA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
584	(248)	ADDRESS	4	GDASQAT5R64	Address of the subpool 245 Size Queue Anchor Table
588	(24C)	ADDRESS	4	GDAAQAT5R64	Address of the subpool 245 address Queue Anchor Table
592	(250)	CHARACTER	16	GDADFEQ5R64(0)	Subpool 245 DFE queue header
592	(250)	ADDRESS	4	GDAADF45R64	Address of the first DFE on the subpool 245 address queue
596	(254)	ADDRESS	4	GDAADL45R64	Address of the last DFE on the subpool 245 address queue
600	(258)	ADDRESS	4	GDASZF45R64	Address of the first DFE on the subpool 245 size queue
604	(25C)	ADDRESS	4	GDASZL45R64	Address of the last DFE on the subpool 245 size queue
608	(260)	CHARACTER	24	GDAEANC5R64(0)	Subpool 245 queue anchors - V31 R64
608	(260)	ADDRESS	4	GDAESQT5R64	Address of the subpool 245 Size Queue Anchor Table
612	(264)	ADDRESS	4	GDAEAQT5R64	Address of the subpool 245 address Queue Anchor Table
616	(268)	CHARACTER	16	GDAEDFE5R64(0)	Subpool 245 DFE queue header
616	(268)	ADDRESS	4	GDAEADF5R64	Address of the first DFE on the subpool 245 address queue
620	(26C)	ADDRESS	4	GDAEADL5R64	Address of the last DFE on the subpool 245 address queue
624	(270)	ADDRESS	4	GDAESZF5R64	Address of the first DFE on the subpool 245 size queue
628	(274)	ADDRESS	4	GDAESZL5R64	Address of the last DFE on the subpool 245 size queue
632	(278)	CHARACTER	24	GDAQANC9R64(0)	Subpool 239 queue anchors V24 R64
632	(278)	ADDRESS	4	GDASQAT9R64	Address of the subpool 239 Size Queue Anchor Table
636	(27C)	ADDRESS	4	GDAAQAT9R64	Address of the subpool 239 address Queue Anchor Table
640	(280)	CHARACTER	16	GDADFEQ9R64(0)	Subpool 239 DFE queue header
640	(280)	ADDRESS	4	GDAADF39R64	Address of the first DFE on the subpool 239 address queue
644	(284)	ADDRESS	4	GDAADL39R64	Address of the last DFE on the subpool 239 address queue
648	(288)	ADDRESS	4	GDASZF39R64	Address of the first DFE on the subpool 239 size queue
652	(28C)	ADDRESS	4	GDASZL39R64	Address of the last DFE on the subpool 239 size queue
656	(290)	CHARACTER	24	GDAEANC9R64(0)	Subpool 239 queue anchors - V31 R64
656	(290)	ADDRESS	4	GDAESQT9R64	Address of the subpool 239 Size Queue Anchor Table
660	(294)	ADDRESS	4	GDAEAQT9R64	Address of the subpool 239 address Queue Anchor Table
664	(298)	CHARACTER	16	GDAEDFE9R64(0)	Subpool 239 DFE queue header
664	(298)	ADDRESS	4	GDAEADF9R64	Address of the first DFE on the subpool 239 address queue
668	(29C)	ADDRESS	4	GDAEADL9R64	Address of the last DFE on the subpool 239 address queue

Table 886. Structure GDA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
672	(2A0)	ADDRESS	4	GDAESZF9R64	Address of the first DFE on the subpool 239 size queue
676	(2A4)	ADDRESS	4	GDAESZL9R64	Address of the last DFE on the subpool 239 size queue
680	(2A8)	CHARACTER	24	GDAQANC7R64	Reserved
704	(2C0)	CHARACTER	24	GDAEANC7R64(0)	Subpool 247 queue anchors - V31 R64
704	(2C0)	ADDRESS	4	GDAESQT7R64	Address of the subpool 247 Size Queue Anchor Table
708	(2C4)	ADDRESS	4	GDAEAQT7R64	Address of the subpool 247 address Queue Anchor Table
712	(2C8)	CHARACTER	16	GDAEDFE7R64(0)	Subpool 247 DFE queue header
712	(2C8)	ADDRESS	4	GDAEADF7R64	Address of the first DFE on the subpool 247 address queue
716	(2CC)	ADDRESS	4	GDAEADL7R64	Address of the last DFE on the subpool 247 address queue
720	(2D0)	ADDRESS	4	GDAESZF7R64	Address of the first DFE on the subpool 247 size queue
724	(2D4)	ADDRESS	4	GDAESZL7R64	Address of the last DFE on the subpool 247 size queue
728	(2D8)	CHARACTER	24	GDAQANC8R64	Reserved
752	(2F0)	CHARACTER	24	GDAEANC8R64(0)	Subpool 247 queue anchors - V31 R64
752	(2F0)	ADDRESS	4	GDAESQT8R64	Address of the subpool 248 Size Queue Anchor Table
756	(2F4)	ADDRESS	4	GDAEAQT8R64	Address of the subpool 248 address Queue Anchor Table
760	(2F8)	CHARACTER	16	GDAEDFE8R64(0)	Subpool 248 DFE queue header
760	(2F8)	ADDRESS	4	GDAEADF8R64	Address of the first DFE on the subpool 248 address queue
764	(2FC)	ADDRESS	4	GDAEADL8R64	Address of the last DFE on the subpool 248 address queue
768	(300)	ADDRESS	4	GDAESZF8R64	Address of the first DFE on the subpool 248 size queue
772	(304)	ADDRESS	4	GDAESZL8R64	Address of the last DFE on the subpool 248 size queue
776	(308)	CHARACTER	8		RESERVED
784	(310)	CHARACTER	1	GDAEND(0)	IEAIPL04 expects the GDA to be an integral number of double words in length.
784	(310)	X'9000'	0	GDAHISUF_BASE	"36864" SRM CSA/SQA SPACE HIGH THRESHOLD - SUFFICIENT SPACE
784	(310)	X'5000'	0	GDALOSUF_BASE	"20480" SRM CSA/SQA SPACE LOW THRESHOLD - SUFFICIENT SPACE
784	(310)	X'8000'	0	GDAHIINS_BASE	"32768" SRM CSA/SQA SPACE HIGH THRESHOLD - INSUFFICIENT SPACE
784	(310)	X'4000'	0	GDALOINS_BASE	"16384" SRM CSA/SQA SPACE LOW THRESHOLD - INSUFFICIENT SPACE
784	(310)	X'1'	0	GDASJJST	"1" Job start for IGVSJOB. This also includes started tasks, mounts, logons.
784	(310)	X'2'	0	GDASJJND	"2" Job end for IGVSJOB
784	(310)	X'310'	0	GDA_LEN	"*-GDA"

GDA mapping

Table 887. Cross Reference for GDA

Name	Offset	Hex Tag
GDA	0	
GDA_CSA_ALLOC	1B0	
GDA_CSA_CONV	1C0	
GDA_ECSA_ALLOC	1B4	
GDA_ECSA_CONV	1C4	
GDA_ESQA_ALLOC	1BC	
GDA_LEN	310	310
GDA_SQA_ALLOC	1B8	
GDAADF26	3C	
GDAADF39	EC	
GDAADF39R64	280	
GDAADF45	C	
GDAADF45R64	250	
GDAADL26	40	
GDAADL39	F0	
GDAADL39R64	284	
GDAADL45	10	
GDAADL45R64	254	
GDAAQAT5	8	
GDAAQAT5R64	24C	
GDAAQAT6	38	
GDAAQAT9	E8	
GDAAQAT9R64	27C	
GDACAADR	1C8	
GDACAANC	1C8	
GDACACNT	1CC	
GDACPAB	BC	
GDACPADR	B0	
GDACPANC	B0	
GDACPCNT	B4	
GDACSA	6C	
GDACSACV	8C	
GDACSADR	DC	
GDACSAGQECPADR	1E8	
GDACSAGQECPANC	1E8	
GDACSAGQECPCNT	1EC	
GDACSAGQEFCADR	1F0	
GDACSAHWM	220	
GDACSARD	64	
GDACSARE	84	
GDACSASZ	70	
GDACSATR	D8	8
GDACSATRACKINGLASTOFF	208	
GDACSATRACKINGLASTON	204	
GDACSATRACKINGTIMESTAMPS	204	
GDADETA	D9	80
GDADFEQ5	C	
GDADFEQ5R64	250	
GDADFEQ6	3C	

Table 887. Cross Reference for GDA (continued)

Name	Offset	Hex Tag
GDADFEQ9	EC	
GDADFEQ9R64	280	
GDADGQAT@	1F4	
GDADOMID_IGV002E	214	
GDADPACT	D9	C0
GDAEADF5	24	
GDAEADF5R64	268	
GDAEADF6	54	
GDAEADF7	14C	
GDAEADF7R64	2C8	
GDAEADF8	17C	
GDAEADF8R64	2F8	
GDAEADF9	104	
GDAEADF9R64	298	
GDAEADL5	28	
GDAEADL5R64	26C	
GDAEADL6	58	
GDAEADL7	150	
GDAEADL7R64	2CC	
GDAEADL8	180	
GDAEADL8R64	2FC	
GDAEADL9	108	
GDAEADL9R64	29C	
GDAEANC5	1C	
GDAEANC5R64	260	
GDAEANC6	4C	
GDAEANC7	144	
GDAEANC7R64	2C0	
GDAEANC8	174	
GDAEANC8R64	2F0	
GDAEANC9	FC	
GDAEANC9R64	290	
GDAEAQT5	20	
GDAEAQT5R64	264	
GDAEAQT6	50	
GDAEAQT7	148	
GDAEAQT7R64	2C4	
GDAEAQT8	178	
GDAEAQT8R64	2F4	
GDAEAQT9	100	
GDAEAQT9R64	294	
GDAECRD	74	
GDAECSA	7C	
GDAECSAHWM	224	
GDAECSAS	80	
GDAEDFE5	24	
GDAEDFE5R64	268	
GDAEDFE6	54	
GDAEDFE7	14C	

Table 887. Cross Reference for GDA (continued)

Name	Offset	Hex Tag
GDAEDFE7R64	2C8	
GDAEDFE8	17C	
GDAEDFE8R64	2F8	
GDAEDFE9	104	
GDAEDFE9R64	298	
GDAEFBCF	74	
GDAEFBCL	78	
GDAEND	310	
GDAEPVT	A8	
GDAEPVTS	AC	
GDAESQA	98	
GDAESQAHWM	21C	
GDAESQAS	9C	
GDAESQT5	1C	
GDAESQT5R64	260	
GDAESQT6	4C	
GDAESQT7	144	
GDAESQT7R64	2C0	
GDAESQT8	174	
GDAESQT8R64	2F0	
GDAESQT9	FC	
GDAESQT9R64	290	
GDAESTSZ	190	
GDAESZF5	2C	
GDAESZF5R64	270	
GDAESZF6	5C	
GDAESZF7	154	
GDAESZF7R64	2D0	
GDAESZF8	184	
GDAESZF8R64	300	
GDAESZF9	10C	
GDAESZF9R64	2A0	
GDAESZL5	30	
GDAESZL5R64	274	
GDAESZL6	60	
GDAESZL7	158	
GDAESZL7R64	2D4	
GDAESZL8	188	
GDAESZL8R64	304	
GDAESZL9	110	
GDAESZL9R64	2A4	
GDAFBQCF	64	
GDAFBQCL	68	
GDAFCAAD	1D0	
GDAFCADR	B8	
GDAFCAUB	19C	
GDAFLAGS0	1A8	
GDAFLAGS1	1A9	
GDAFLAGS2	1AA	

Table 887. Cross Reference for GDA (continued)

Name	Offset	Hex Tag
GDAFLAGS3	1AB	
GDAFLGS	D8	
GDAFLGS0	D8	
GDAFLGS1	D9	
GDAFVAAD	1DC	
GDAGFSTR	D8	20
GDAGQAT_INDEX	1A4	
GDAHIINS	240	
GDAHIINS_BASE	310	8000
GDAHISUF	238	
GDAHISUF_BASE	310	9000
GDAID	0	
GDALCAUB	1A0	
GDALOINS	244	
GDALOINS_BASE	310	4000
GDALOSUF	23C	
GDALOSUF_BASE	310	5000
GDALOW1	D8	80
GDALOW2	D8	40
GDANOCSADUMPTIMESTAMPH	230	
GDANONFM	11C	
GDANOSQADUMPTIMESTAMPH	234	
GDAPGT	124	
GDAPGTAD	124	
GDAPGTSZ	128	
GDAPPDFX	118	
GDAPPDPG	114	
GDAPROTA	D9	40
GDAPVT	A0	
GDAPVTSZ	A4	
GDAQANC5	4	
GDAQANC5R64	248	
GDAQANC6	34	
GDAQANC7	12C	
GDAQANC7R64	2A8	
GDAQANC8	15C	
GDAQANC8R64	2D8	
GDAQANC9	E4	
GDAQANC9R64	278	
GDARGR	D0	
GDASCAUB	194	
GDASJJND	310	2
GDASJJST	310	1
GDASJOB@	1E0	
GDASM	11C	
GDASMAD	11C	
GDASMSZ	120	
GDASPT	88	
GDASPTT	D4	

Table 887. Cross Reference for GDA (continued)

Name	Offset	Hex Tag
GDASQA	90	
GDASQAGQECPADR	1F8	
GDASQAGQECPANC	1F8	
GDASQAGQECPCNT	1FC	
GDASQAGQEFCADR	200	
GDASQAHWM	218	
GDASQAOK	D8	10
GDASQASZ	94	
GDASQATR	D8	4
GDASQATRACKINGLASTOFF	210	
GDASQATRACKINGLASTON	20C	
GDASQATRACKINGTIMESTAMPS	20C	
GDASQAT5	4	
GDASQAT5R64	248	
GDASQAT6	34	
GDASQAT9	E4	
GDASQAT9R64	278	
GDASTTC	D8	2
GDASYVAB	1E4	
GDASZF26	44	
GDASZF39	F4	
GDASZF39R64	288	
GDASZF45	14	
GDASZF45R64	258	
GDASZL26	48	
GDASZL39	F8	
GDASZL39R64	28C	
GDASZL45	18	
GDASZL45R64	25C	
GDATOTALCSAHWM	228	
GDATOTALECSAHWM	22C	
GDATRAC	18C	
GDATRACKINGCLEANEDUP	1A8	40
GDATRACKINGPERMANENTLYOFF	1A8	80
GDATRACKINGTIMESTAMPS	204	
GDAUCAUB	198	
GDAUKCSA	D8	1
GDAVAADR	1D4	
GDAVAANC	1D4	
GDAVACNT	1D8	
GDAVR	C0	
GDAVREGS	C8	
GDAVRSZ	C4	
GDAWRKA	CC	
GDAWRKAP	E0	
PASIZE	A4	
PASTRT	A0	

Chapter 216. GRPL Information

GRPL Heading Information

Common Name:	VSM Getregion Parameter List
Macro ID:	IGVGRPL
DSECT Name:	GRPL
Owning Component:	Virtual Storage Manager (SC1CH)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 245 Key: 0
Size:	24 bytes
Created by:	IGVGRRGN, IGVGVGRN
Pointed to by:	N/A
Serialization:	None
Function:	Interface between VSM GET/FREE REGION routines

GRPL mapping

Table 888. Structure GRPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	24	GRPL	FRR PARAMETER LIST FOR GET REAL OR VIRTUAL REGION
0	(0)	ADDRESS	4	GRPLGCD	CODE REGISTER
4	(4)	ADDRESS	4	GRPLGWK	DYNAMIC AREA ADDRESS
8	(8)	ADDRESS	4	GRPLCWK	CALLED ROUTINE DYNAMIC AREA ADDRESS
12	(C)	ADDRESS	4	GRPLRSMP	ADDRESS OF RSM PARM LIST
16	(10)	SIGNED	2	GRPLGSZ	GET REGION DYNAMIC AREA SIZE
18	(12)	SIGNED	2	GRPLCSZ	CALLED ROUTINE DYNAMIC AREA SIZE
20	(14)	BITSTRING	1	GRPLFOOT	FOOTPRINT INDICATORS
		1...		GRPLFVRG	1=> IN IGVFVRGN
		.1..		GRPLFRRG	1=> IN IGVFRRGN
		..1.		GRPLIGVL	1=> IN IGVLIMIT
		...1		GRPLIEAL	1=> IN IEALIMIT
		.... 1...		GRPLDAQA	1=> IN IGVDAQAT
		.... .111		*	UNUSED
21	(15)	BITSTRING	1	GRPLPROC	PROCESSING BITS
		1...		GRPLPERC	1=> FORCE PERCOLATION OF ABEND
		.1..		GRPLRCUR	1=> RECOVERY HAS BEEN ENTERED
		..1.		GRPLRSM	1=> RSM HAS BEEN CALLED
		...1		GRPLVVSP	1=> V=V SPACE HAS BEEN ENTIRELY REMOVED FROM THE RD
		.... 1...		GRPLEOTF	SAVEAREA FOR TCBEOTFM BIT SETTING
		.... .111		*	UNUSED

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GRPL mapping

Table 889. Cross Reference for GRPL

Name	Offset	Hex Tag
GRPL	0	
GRPLCSZ	12	
GRPLCWK	8	
GRPLDAQA	14	08
GRPLEOTF	15	08
GRPLFOOT	14	
GRPLFRRG	14	40
GRPLFVRG	14	80
GRPLGCD	0	
GRPLGSZ	10	
GRPLGWK	4	
GRPLIEAL	14	10
GRPLIGVL	14	20
GRPLPERC	15	80
GRPLPROC	15	
GRPLRCUR	15	40
GRPLRSM	15	20
GRPLRSMP	C	
GRPLVVSP	15	10

Chapter 217. GSDA Information

GSDA Heading Information

Common Name:	Global System Duplex Area
Macro ID:	IHAGSDA
DSECT Name:	GSDA
Owning Component:	Supervisor Control (SC1C5)
Eye-Catcher ID:	None
Storage Attributes:	Residency: Nucleus resident
Size:	Offset of GSDAEND minus the offset of GSDA.
Created by:	IEAVGSDA
Pointed to by:	CVTGSDA
Serialization:	By IPL/NIP. The GSDA is filled in by NIP and not modified after module IEAVNP09 is executed.
Function:	Provide duplex area for critical system pointers.

GSDA mapping

Table 890. Structure GSDA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	512	GSDA	
0	(0)	ADDRESS	4	GSDAASVT	ASVT DUPLEXED ADDRESS
4	(4)	ADDRESS	4	GSDAPCCT	PCCAT DUPLEXED ADDRESS
8	(8)	ADDRESS	4	GSDAGDA	GDA DUPLEXED ADDRESS
12	(C)	ADDRESS	4	GSDACSD	CSD DUPLEXED ADDRESS
16	(10)	ADDRESS	4	GSDALCCT	LCCAT DUPLEXED ADDRESS
20	(14)	SIGNED	4	GSDAMAX	MAXUSER VALUE DUPLEX AREA
20	(14)	SIGNED	2	*	NOT USED.
22	(16)	SIGNED	2	GSDAMAXU	MAXUSER DUPLEX AREA
24	(18)	SIGNED	2	GSDASTRT	NUMBER OF ASVT SLOTS RESERVED FOR START/SASI ADDRESS SPACES. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: NIP RIM PROCESS.
26	(1A)	SIGNED	2	GSDANONR	NUMBER OF ASVT SLOTS RESERVED TO REPLACE NON- REUSABLE ASIDS. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: NIP RIM PROCESS.
		THE FOLLOWING FIELDS DUPLEX SVT FIELDS			
28	(1C)	ADDRESS	4	GSDAENTY	SVTOENTY DUPLEXED ADDRESS.
32	(20)	ADDRESS	4	GSDASTKN	SVTSTKN DUPLEXED ADDRESS.
36	(24)	ADDRESS	4	GSDASTKE	SVTSTKNE DUPLEXED ADDRESS.
40	(28)	ADDRESS	4	GSDANALD	SVTNALD DUPLEXED ADDRESS.
44	(2C)	ADDRESS	4	GSDANALV	SVTNALV DUPLEXED ADDRESS.
48	(30)	ADDRESS	4	GSDASWUQ	SVTSWUQ DUPLEXED ADDRESS. SERIALIZATION: DISABLEMENT OWNERSHIP: SUPERVISOR CONTROL
52	(34)	ADDRESS	4	GSDALSCO	SVTLSCO duplexed address.
		THE FOLLOWING FIELDS DUPLEX PSA FIELDS			

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Table 890. Structure GSDA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	CHARACTER	8	*	Unused 2@LID
64	(40)	CHARACTER	48	GSDAATLK	PSADATLK duplexed value. Note that the contents of PSADATLK is defined in IEAVFX00.
112	(70)	ADDRESS	4	GSDAATOF	PSADATOF duplexed addr. Note that the contents of PSADATOF is initialized by IEAIPL02 using IEAVEDAT. (LNKGBASE points to IEAVEDAT.)
116	(74)	SIGNED	4	GSDAATLN	PSADATLN duplexed value. Note that the contents of PSADATLN is initialized by IEAIPL02 using IEAVEDAT. (LNKGBASE points to IEAVEDAT.)
120	(78)	CHARACTER	4	*	Reserved
THE FOLLOWING FIELDS DUPLEX PSAX FIELDS					
124	(7C)	CHARACTER	64	GSDAXDATLK	PSAXDATLK duplexed value. Note that the contents of PSAXDATLK is defined in IEAVFX00.
188	(BC)	ADDRESS	4	GSDAXDATOF	PSAXDATOF duplexed addr. Note that the contents of PSAXDATOF is initialized by IEAIPL02 using IEAVEDAT. (LNKGBASE points to IEAVEDAT.)
192	(C0)	SIGNED	4	GSDAXDATLN	PSAXDATLN duplexed value. Note that the contents of PSAXDATLN is initialized by IEAIPL02 using IEAVEDAT. (LNKGBASE points to IEAVEDAT.)
196	(C4)	CHARACTER	1	GSDAARCH	
		1111 11..		*	
		.... ..1.		GSDAEMAME	
		1		GSDAESAME	
197	(C5)	CHARACTER	1	GSDAPSAMISCF	PSAMISCF
198	(C6)	CHARACTER	1	GSDACVTFLAG5	CVTFLAG5
199	(C7)	CHARACTER	1	*	Reserved
200	(C8)	CHARACTER	8	GSDA_CR0EMASKOFFEXTINT	Copy of PSA_CR0EMaskOffExtInt
200	(C8)	CHARACTER	4	GSDA_CR0EMASKOFFEXTINT_HW	High word
204	(CC)	CHARACTER	4	GSDA_CR0EMASKOFFEXTINT_LW	Low word
208	(D0)	CHARACTER	8	GSDA_CR0EMASKONEXTINT	Copy of PSA_CR0EMaskOnExtInt
208	(D0)	CHARACTER	4	GSDA_CR0EMASKONEXTINT_HW	High word
212	(D4)	CHARACTER	4	GSDA_CR0EMASKONEXTINT_LW	Low word
216	(D8)	CHARACTER	4	*	Reserved 8@LCD
220	(DC)	ADDRESS	4	GSDALCCXVT	Address of LCCXVT
224	(E0)	UNSIGNED	4	GSDASVTLEIGA	Initial Guardpage Addr
228	(E4)	SIGNED	4	GSDAPSASTOR	Copy of PsaSTOR
232	(E8)	ADDRESS	4	GSDAASWUQ	Duplexes SVTASWUQ
236	(EC)	ADDRESS	4	GSDASSWUQ	Duplexes SVTSSWUQ
240	(F0)	ADDRESS	4	GSDAAWUQ	Duplexes SVTAWUQ
244	(F4)	ADDRESS	4	GSDAZ1	Duplexes SvtZ1
248	(F8)	CHARACTER	16	GSDAFACL	PSAFACL duplexed value.
264	(108)	ADDRESS	4	GSDACPUD	Pointer to cpu dependent
268	(10C)	UNSIGNED	4	GSDATYPE5PCTG	

Table 890. Structure GSDA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
272	(110)	CHARACTER	48	GSDAR110	Reserved
272	(110)	BITSTRING	16	GSDA_BYLPAR_CPMASK_OLD	Duplexes CSD_ByLPAR_CP_MASK
288	(120)	BITSTRING	16	GSDA_BYLPAR_ZAAPMASK_OLD	Duplexes CSD_ByLPAR_IFA_MASK
288	(120)	BITSTRING	16	GSDA_BYLPAR_IFAMASK_OLD	Duplexes CSD_ByLPAR_IFA_MASK
304	(130)	BITSTRING	16	GSDA_BYLPAR_ZIIPMASK_OLD	Duplexes CSD_ByLPAR_zIIP_MASK
320	(140)	ADDRESS	4	GSDARNALD	SVTRNALD duplexed address
324	(144)	ADDRESS	4	GSDARNALV	SVTRNALV duplexed address
328	(148)	CHARACTER	40	GSDAR148	Reserved
368	(170)	SIGNED	2	GSDASVTPROMOTETRIGGER	
370	(172)	SIGNED	2	GSDASVTTURNONPROMOTIONTRIGGER	
372	(174)	SIGNED	2	GSDASVTINITIALPROMOTIONCOUNT	
374	(176)	CHARACTER	2	*	Reserved
376	(178)	ADDRESS	4	GSDA_BYLPAR_CPMASK_ADDR	Pointer to storage that duplexes mask pointed to by CSD_BYLPAR_CP_MASK_ADDR
380	(17C)	ADDRESS	4	GSDA_BYLPAR_ZAAPMASK_ADDR	Pointer to storage that duplexes mask pointed to by CSD_BYLPAR_ZAAP_MASK_ADDR
384	(180)	ADDRESS	4	GSDA_BYLPAR_ZIIPMASK_ADDR	Pointer to storage that duplexes mask pointed to by CSD_BYLPAR_ZIIP_MASK_ADDR
388	(184)	UNSIGNED	2	GSDA_MAXMP	The maximum CPU id that can be defined for the life of the IPL
390	(186)	UNSIGNED	2	GSDA_IPLMAXAFFINITYINDEX	The maximum affinity index for the life of the IPL
392	(188)	ADDRESS	4	GSDA_COREVT_ADDR	Duplexed SVT_CoreVT_Addr
396	(18C)	SIGNED	2	GSDA_MAXMPNUMBYTESINMASK	Duplex of ECVTMaxMPNumBytesInMask
398	(18E)	CHARACTER	2	GSDA_DIAG18E	Reserved for IBM use
400	(190)	BITSTRING	2	GSDA_SVTCOREFLGS	Duplex of SvtCoreFlgs
402	(192)	BITSTRING	1	GSDA_CVTFLAG3	Duplex of CvtFlag3
403	(193)	CHARACTER	1	*	Reserved
404	(194)	UNSIGNED	2	GSDA_SVTCOREIDCPUIDSHIFT	Duplex of SvtCoreIdCpuIdShift
406	(196)	UNSIGNED	2	GSDA_SVTCOREMODE_MAX	Duplex of SvtCoreMode_Max
408	(198)	UNSIGNED	2	GSDA_MAXCOREID	Duplex of EcvtMaxCoreId, SVTO_MaxCoreId
410	(19A)	UNSIGNED	2	GSDA_ECVTNUMCPUIDSINCORE	Duplex of EcvtNumCpuIDsInCore
412	(19C)	SIGNED	2	GSDA_MAXMPNUMBYTES	Duplex of CPUD_MaxMPNumBytes
414	(19E)	CHARACTER	2	*	Reserved
416	(1A0)	CHARACTER	96	GSDAR1A0	Reserved
512	(200)	CHARACTER	0	*	ASSURE DWORD ALIGNED

Table 891. Cross Reference for GSDA

Name	Offset	Hex Tag
GSDA	0	
GSDA_BYLPAR_CPMASK_ADDR	178	
GSDA_BYLPAR_CPMASK_OLD	110	
GSDA_BYLPAR_IFAMASK_OLD	120	
GSDA_BYLPAR_ZAAPMASK_ADDR	17C	
GSDA_BYLPAR_ZAAPMASK_OLD	120	
GSDA_BYLPAR_ZIIPMASK_ADDR	180	

Table 891. Cross Reference for GSDA (continued)

Name	Offset	Hex Tag
GSDA_BYLPAR_ZIIPMASK_OLD	130	
GSDA_COREVT_ADDR	188	
GSDA_CR0EMASKOFFEXTINT	C8	
GSDA_CR0EMASKOFFEXTINT_HW	C8	
GSDA_CR0EMASKOFFEXTINT_LW	CC	
GSDA_CR0EMASKONEXTINT	D0	
GSDA_CR0EMASKONEXTINT_HW	D0	
GSDA_CR0EMASKONEXTINT_LW	D4	
GSDA_CVTFLAG3	192	
GSDA_DIAG18E	18E	
GSDA_ECVTNUMCPUIDSINCORE	19A	
GSDA_IPLMAXAFFINITYINDEX	186	
GSDA_MAXCOREID	198	
GSDA_MAXMP	184	
GSDA_MAXMPNUMBYTES	19C	
GSDA_MAXMPNUMBYTESINMASK	18C	
GSDA_SVTCOREFLGS	190	
GSDA_SVTCOREIDCPUIDSHIFT	194	
GSDA_SVTCOREMODE_MAX	196	
GSDAARCH	C4	
GSDAASVT	0	
GSDAASWUQ	E8	
GSDAATLK	40	
GSDAATLN	74	
GSDAATOF	70	
GSDAAWUQ	F0	
GSDACPUD	108	
GSDACSD	C	
GSDACVTFLAG5	C6	
GSDAEMAME	C4	02
GSDAENTY	1C	
GSDAESAME	C4	01
GSDAFACL	F8	
GSDAGDA	8	
GSDALCCT	10	
GSDALCCXVT	DC	
GSDALSCO	34	
GSDAMAX	14	
GSDAMAXU	16	
GSDANALD	28	
GSDANALV	2C	
GSDANONR	1A	
GSDAPCCT	4	
GSDAPSAMISCF	C5	
GSDAPSASTOR	E4	
GSDARNALD	140	
GSDARNALV	144	
GSDAR1A0	1A0	
GSDAR110	110	

Table 891. Cross Reference for GSDA (continued)

Name	Offset	Hex Tag
GSDAR148	148	
GSDASSWUQ	EC	
GSDASTKE	24	
GSDASTKN	20	
GSDASTRT	18	
GSDASVTINITIALPROMOTIONCOUNT	174	
GSDASVTLEIGA	E0	
GSDASVTPROMOTETRIGGER	170	
GSDASVTTURNONPROMOTIONTRIGGER	172	
GSDASWUQ	30	
GSDATYPE5PCTG	10C	
GSDAXDATLK	7C	
GSDAXDATLN	C0	
GSDAXDATOF	BC	
GSDAZ1	F4	

Chapter 218. GTD Information

GTD Heading Information

Common Name:	GTF Data in Trace Data Set Records
Macro ID:	AHLZGTD.
DSECT Name:	GTD - Common GTF trace data. GTDU - GTF user trace data.
Owning Component:	Generalized Trace Facility (SC111)
Eye-Catcher ID:	none
Storage Attributes:	Subpool: N/A
Size:	See Assembler listing.
Created by:	The Trace writer
Pointed to by:	N/A
Serialization:	None
Function:	AHLZGTD describes the structure of the GTF data part of the data records in a GTF data set. It defines GTD, the common part of the data, and fields for some individual record types.

GTD mapping

Table 892. Structure GTD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	16	GTD	GTF trace data.
0	(0)	ADDRESS	4	GTDASCB	For most records, an ASCB address.
4	(4)	UNSIGNED	2	GTDCPU	For most records, a CPU address.
6	(6)	CHARACTER	8	GTDJOB	For most records, a job name.
6	(6)	CHARACTER	8	GTDPSW	For some records, a program status word.
14	(E)	UNSIGNED	2	GTDDEV	For many trace records, a device address.
16	(10)	CHARACTER	0	GTDEND	The rest of the record.

Table 893. Structure GTDU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	GTDU	User trace record fields.
0	(0)	CHARACTER	4	GTDUASCB	The address of the ASCB.
4	(4)	CHARACTER	8	GTDUJOB	The job name.
12	(C)	CHARACTER	*	GTDUDATA	The user-suppled trace data.

Table 894. Cross Reference for GTD

Name	Offset	Hex Tag
GTD	0	
GTDASCB	0	
GTDCPU	4	
GTDDEV	E	

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Table 894. Cross Reference for GTD (continued)

Name	Offset	Hex Tag
GTDEND	10	
GTDJOB	6	
GTDPSW	6	
GTDU	0	
GTDUASCB	0	
GTDUDATA	C	
GTDUJOB	4	

Chapter 219. GTO Information

GTO Programming Interface Information

GTO is a programming interface.

GTO Heading Information

Common Name:	GTF TRACE OPTIONS MAPPING.
Macro ID:	AHLZGTO.
DSECT Name:	GTO
Owning Component:	GENERALIZED TRACE FACILITY (SC111).
Eye-Catcher ID:	NONE
Storage Attributes:	Main Storage: N/A Virtual Storage: N/A Auxiliary Storage: N/A Subpool: N/A Key: N/A Residency: N/A
Size:	VARIABLE.
Created by:	THE TRACE WRITER AND THE COPYTRC IPCS SUBCOMMAND.
Pointed to by:	(NOT APPLICABLE)
Serialization:	NONE.
Function:	AHLZGTO DESCRIBES THE GTF OPTIONS IN THE CONTROL RECORDS IN THE GTF TRACE DATA SET. IT DEFINES THE FOLLOWING STRUCTURE: GTO - THE GTF OPTIONS.

GTO mapping

Table 895. Structure GTO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GTO	- THE GTF TRACE OPTIONS.
0	(0)	BITSTRING	1	GTOBYTE0	
		1...		GTOSYSM	"BIT0" SYSM - RECORDS MINIMAL DATA FOR SYSTEM EVENTS. - RECORDS EVENTS AS IF EACH OF THE FOLLOWING OPTIONS IS SPECIFIED, EXCEPT THAT MINIMAL TRACE DATA IS RECORDED: EXT, PI, SVC AND RR. - RECORDS EVENTS AS IF EACH OF THE FOLLOWING OPTIONS IS SPECIFIED: IO, SSCH, CSCH, HSCH, MSCH, AND XSCH. - IF ANY OF THE FOLLOWING OPTIONS ARE SPECIFIED CAUSES MINIMAL RECORDING TO BE DONE FOR THEM: DSP, RNIO AND SRM. - THE FOLLOWING OPTIONS ARE IGNORED: EXT, PI, SVC, RR, IO, SSCH, CSCH, HSCH, MSCH, AND XSCH.

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Table 895. Structure GTO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		GTOSYSP	"BIT1" SYSP - RECORDS COMPREHENSIVE TRACE DATA FOR SYSTEM EVENTS, WITH PROMPTING. - GTF PROMPTS THE OPERATOR FOR THE ONLY PI, SVC, IO AND SSCH EVENTS THAT WILL HAVE DATA RECORDED. - OTHERWISE, GTF RECORDS THE SAME EVENTS AS THOSE RECORDED BY SYS. - GTF IGNORES THE FOLLOWING OPTIONS: EXT, PI, SVC, RR, IO, SSCH, CSCH, HSCH, MSCH, AND XSCH.
		..1.		GTOSYS	"BIT2" SYS - RECORDS COMPREHENSIVE TRACE DATA FOR SYSTEM EVENTS. - RECORDS EVENTS AS IF EACH OF THE FOLLOWING OPTIONS IS SPECIFIED: EXT, PI, SVC, RR, IO, SSCH, CSCH, HSCH AND MSCH. - THE FOLLOWING OPTIONS ARE IGNORED: EXT, PI, SVC, RR, IO, SSCH, CSCH, HSCH, MSCH, AND XSCH.
		...1		GTOUSR	"BIT3" USR - RECORDS ALL USER TRACE DATA PASSED TO GTF BY THE GTRACE MACRO.
		.... 1...		GTOTRC	"BIT4" TRC - RECORDS EVENTS ASSOCIATED WITH GTF ITSELF. THIS CAUSES TRACING ONLY WHEN AT LEAST ONE OTHER TYPE OF EVENT IS BEING TRACED.
		.... .1..		GTODSP	"BIT5" DSP - RECORDS DISPATCHER EVENTS. IF SYSM IS ALSO SPECIFIED, GTF RECORDS MINIMAL TRACE DATA. OTHERWISE, GTF RECORDS COMPREHENSIVE TRACE DATA.
		1		GTOPCI	"BIT7" PCI - RECORDS I/O INTERRUPTIONS THAT INDICATE INTERMEDIATE STATUS. THESE INCLUDE PROGRAM-CONTROLLED INTERRUPTIONS (PCIS), INITIAL STATUS REQUEST INTERRUPTIONS, AND RESUME AND SUSPEND CHANNEL PROGRAM INTERRUPTIONS. - WHEN IOP SPECIFIES PARTICULAR DEVICES, PCI APPLIES ONLY TO THEM. - PCI CAUSES TRACING ONLY WHEN ONE OF THE FOLLOWING IS ALSO SPECIFIED: IO, IOP, SYS, SYSM, SYSP.
1	(1)	BITSTRING	1	GTOBYTE1	

Table 895. Structure GTO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		GTOSVC	"BIT0" SVC - RECORDS SUPERVISOR CALL INTERRUPTIONS. IF SYSM IS ALSO SPECIFIED, GTF RECORDS MINIMAL TRACE DATA. OTHERWISE, GTF RECORDS COMPREHENSIVE TRACE DATA.
		.1..		GTOSVCP	"BIT1" SVCP - LIKE SVC, BUT GTF PROMPTS THE OPERATOR FOR THE ONLY SVC NUMBERS THAT WILL HAVE DATA RECORDED.
		..1.		GTOSIO	"BIT2" SIO - RECORDS START I/O OPERATIONS - EQUIVALENT TO SSCH.
		...1		GTOSIOP	"BIT3" SIOP - SIO WITH PROMPTING - EQUIVALENT TO SSCHP.
		.... 1...		GTOPI	"BIT4" PI - RECORDS PROGRAM INTERRUPTIONS. IF SYSM IS ALSO SPECIFIED, GTF RECORDS MINIMAL TRACE DATA. OTHERWISE, GTF RECORDS COMPREHENSIVE TRACE DATA.
		.... .1..		GTOPIP	"BIT5" PIP - LIKE PI, BUT GTF PROMPTS THE OPERATOR FOR THE ONLY PROGRAM INTERRUPTION CODES THAT WILL HAVE DATA RECORDED.
		.... ..1.		GTOIO	"BIT6" IO - RECORDS I/O INTERRUPTIONS. GTF DOES NOT RECORD INTERMEDIATE-STATUS INTERRUPTIONS UNLESS PCI IS ALSO SPECIFIED.
		1		GTOIOP	"BIT7" IOP - LIKE IO, BUT GTF PROMPTS THE OPERATOR FOR THE ONLY DEVICES THAT WILL HAVE DATA RECORDED.
2	(2)	BITSTRING	1	GTOBYTE2	
		1...		GTOEXT	"BIT0" EXT- RECORDS EXTERNAL INTERRUPTIONS. IF SYSM IS ALSO SPECIFIED, GTF RECORDS MINIMAL TRACE DATA. OTHERWISE, GTF RECORDS COMPREHENSIVE TRACE DATA.
		.1..		GTORNIO	"BIT1" RNIO - RECORDS VTAM (REMOTE NETWORK) ACTIVITY. IF SYSM IS ALSO SPECIFIED, GTF RECORDS MINIMAL TRACE DATA. OTHERWISE, GTF RECORDS COMPREHENSIVE TRACE DATA. THIS CAUSES TRACING ONLY WHEN VTAM TRACING IS ACTIVE.
		..1.		GTOSRM	"BIT2" SRM - RECORDS CALLS TO THE SYSTEM RESOURCE MANAGER. IF SYSM IS ALSO SPECIFIED, GTF RECORDS MINIMAL TRACE DATA. OTHERWISE, GTF RECORDS COMPREHENSIVE TRACE DATA.

Table 895. Structure GTO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		GTORR	"BIT3" RR - RECORDS DATA ASSOCIATED WITH RECOVERY ROUTINES, SUCH AS ESTAES AND STAES. IF SYSM IS ALSO SPECIFIED, GTF RECORDS MINIMAL TRACE DATA. OTHERWISE, GTF RECORDS COMPREHENSIVE TRACE DATA.
		.... 1...		GTOSLIP	"BIT4" SLIP - RECORDS SLIP TRAP DATA.
		.... .1..		GTOCCW	"BIT5" CCW - RECORDS CHANNEL PROGRAM DATA. THIS CAUSES TRACING ONLY WHEN ONE OF THE FOLLOWING OPTIONS IS SPECIFIED: SSCH, SSCHP, IO, OR IOP.
		.... ..1.		GTOCCWP	"BIT6" CCWP - LIKE CCW, BUT GTF WILL PROMPT THE OPERATOR FOR THE FOLLOWING INFORMATION: WHETHER TO TRACE DATA FOR SSCH OPERATIONS OR I/O INTERRUPTIONS OR BOTH, THE MAXIMUM NUMBER OF CCWS PER EVENT, THE MAXIMUM NUMBER OF DATA BYTES PER CCW, WHETHER TO TRACE IOSB AND EWA DATA (THESE ARE MVS CONTROL BLOCKS ASSOCIATED WITH I/O), AND THE SIZE OF THE PCI TABLE.
		1		GTOISIO	"BIT7" THE DEVICES TRACED SELECTIVELY FOR IO AND SIO ARE IDENTICAL.
3	(3)	BITSTRING	1	GTOBYTE3	
		1...		GTOCCWI	"BIT0" CCW=I - RECORDS CHANNEL PROGRAM DATA FOR I/O INTERRUPTIONS. THIS CAUSES TRACING ONLY WHEN IO OR IOP IS SPECIFIED.
		.1..		GTOCCWS	"BIT1" CCW=S - RECORDS CHANNEL PROGRAM DATA FOR START SUBCHANNEL AND RESUME SUBCHANNEL OPERATIONS. THIS CAUSES TRACING ONLY WHEN SSCH OR SSCHP IS SPECIFIED.
		..1.		GTOJOBP	"BIT2" JOBNAMEP - LIMITS ALL TRACING TO THE JOBS SPECIFIED. GTF PROMPTS THE OPERATOR FOR THE ONLY JOBS THAT WILL HAVE DATA RECORDED.
		...1		GTOASIDP	"BIT3" ASIDP - LIMITS ALL TRACING TO THE ADDRESS SPACE IDENTIFIERS (ASIDS) SPECIFIED. GTF PROMPTS THE OPERATOR FOR THE ONLY ASIDS THAT WILL HAVE DATA RECORDED.

Table 895. Structure GTO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		GTOUSRP	"BIT4" USRP - USR WITH PROMPTING. GTF PROMPTS THE OPERATOR FOR THE ONLY USER EVENTS THAT WILL HAVE DATA RECORDED.
		1		GTOTIME	"BIT7" TIME STAMPS APPEAR IN GTF TRACE DATA RECORDS. THIS IS ALWAYS 1.
4	(4)	BITSTRING	1	GTOBYTE4	
		1...		GTOSSCH	"BIT0" SSCH - RECORDS START SUBCHANNEL AND RESUME SUBCHANNEL OPERATIONS.
		.1..		GTOSSCHP	"BIT1" SSCHP - SSCH WITH PROMPTING. GTF PROMPTS THE OPERATOR FOR THE ONLY DEVICES THAT WILL HAVE DATA RECORDED.
		..1.		GTOMSCH	"BIT2" MSCH - RECORDS MODIFY SUBCHANNEL OPERATIONS.
		...1		GTOHSCH	"BIT3" HSCH - RECORDS HALT SUBCHANNEL OPERATIONS.
		.... 1...		GTOCSCH	"BIT4" CSCH - RECORDS CLEAR SUBCHANNEL OPERATIONS.
		.... .1..		GTOXSCH	"BIT5" XSCH - RECORDS CANCEL SUBCHANNEL OPERATIONS.
		1		GTOISSCH	"BIT7" THE DEVICES TRACED SELECTIVELY FOR IO AND SSCH ARE IDENTICAL.
5	(5)	BITSTRING	1	GTOBYTE5	RESERVED.
6	(6)	BITSTRING	1	GTOBYTE6	RESERVED.
7	(7)	BITSTRING	1	GTOBYTE7	RESERVED.

Table 896. Cross Reference for GTO

Name	Offset	Hex Tag
GTO	0	
GTOASIDP	3	10
GTOBYTE0	0	
GTOBYTE1	1	
GTOBYTE2	2	
GTOBYTE3	3	
GTOBYTE4	4	
GTOBYTE5	5	
GTOBYTE6	6	
GTOBYTE7	7	
GTOCCW	2	4
GTOCCWI	3	80
GTOCCWP	2	2
GTOCCWS	3	40
GTOCSCH	4	8
GTODSP	0	4
GTOEXT	2	80
GTOHSCH	4	10

Table 896. Cross Reference for GTO (continued)

Name	Offset	Hex Tag
GTOIO	1	2
GTOIOP	1	1
GTOISIO	2	1
GTOISSCH	4	1
GTOJOBP	3	20
GTOMSCH	4	20
GTOPCI	0	1
GTOPI	1	8
GTOPIP	1	4
GTORNIO	2	40
GTORR	2	10
GTOSIO	1	20
GTOSIOP	1	10
GTOSLIP	2	8
GTOSRM	2	20
GTOSSCH	4	80
GTOSSCHP	4	40
GTOSVC	1	80
GTOSVCP	1	40
GTOSYS	0	20
GTOSYSM	0	80
GTOSYSP	0	40
GTOTIME	3	1
GTOTRC	0	8
GTOUSR	0	10
GTOUSRP	3	8
GTOXSCH	4	4

Chapter 220. GTS Information

GTS Programming Interface Information

GTS is a programming interface.

GTS Heading Information

Common Name:	GENERALIZED TRACE DATA SOURCE DESCRIPTOR.
Macro ID:	AHLZGTS.
DSECT Name:	GTS
Owning Component:	GTF (SC111)
Eye-Catcher ID:	GTS Offset: 0 Length: 4
Storage Attributes:	Subpool: n/a Key: n/a
Size:	64
Created by:	THE TRACE WRITER.
Pointed to by:	n/a
Serialization:	NONE.
Function:	AHLZGTS MAPS A TRACE SOURCE DESCRIPTOR. IT CONTAINS A REPRESENTATION OF THE SYSTEM THAT RECORDED THE DATA AND THE TRACE OPTIONS IN EFFECT WHEN THE DATA WAS RECORDED.

GTS mapping

Table 897. Structure GTS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GTS	- TRACE SOURCE DESCRIPTOR.
0	(0)	CHARACTER	4	GTSID	IDENTIFIER 'GTS '.
0	(0)	X'E3E240'	0	GTSIDV	"C'GTS '" VALUE FOR GTSID. USE "DC AL4(GTSIDV)" TO DEFINE A FIELD FOR COMPARING GTSID TO.
4	(4)	SIGNED	1	GTSVERS	VERSION NUMBER.
4	(4)	X'1'	0	GTSVERSV	"1" VALUE FOR GTSVERS. 1=HBB4410.
5	(5)	SIGNED	1	GTSFMT	FORMAT OF THIS GTS (MUST BE 0).
6	(6)	SIGNED	1	GTSLEN	LENGTH OF THIS GTS.
7	(7)	CHARACTER	1		RESERVED.
8	(8)	CHARACTER	8	GTSREL	RELEASE LEVEL OF THE SYSTEM.
16	(10)	CHARACTER	8	GTSFMID	FMID OF THE SYSTEM.
24	(18)	CHARACTER	8	GTSSNAME	GTS SYSTEM NAME.
32	(20)	CHARACTER	8	GTSCPUID	CPU ID OF THE SYSTEM. THE CPU ADDRESS HAS BEEN SET TO 0.
40	(28)	CHARACTER	8	GTSLSO	LEAP YEAR SECOND VALUE FROM CVT.
48	(30)	CHARACTER	8	GTSLDTO	LOCAL TIME OFFSET FROM CVT.
56	(38)	CHARACTER	8	GTSOPTS	GTF OPTIONS IN EFFECT.
64	(40)	CHARACTER	1	(0)	END OF GTS.

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GTS mapping

Table 898. Cross Reference for GTS

Name	Offset	Hex Tag
GTS	0	
GTSCPUID	20	
GTSFMID	10	
GTSFMT	5	
GTSID	0	
GTSIDV	0	E3E240
GTSLDTO	30	
GTSLEN	6	
GTSLSO	28	
GTSOPTS	38	
GTSREL	8	
GTSSNAME	18	
GTSVERS	4	
GTSVERSV	4	1

Chapter 221. GTW Information

GTW Heading Information

Common Name:	GENERALIZED TRACE WRITER DATA.
Macro ID:	AHLZGTW.
DSECT Name:	GTWB - TRACE DATA BLOCK. GTW - TRACE OUTPUT RECORD. GTWC - TRACE CONTROL RECORD. GTWD - TRACE DATA RECORD. GTWL - TRACE LOST DATA RECORD.
Owning Component:	GENERALIZED TRACE FACILITY (SC111)
Eye-Catcher ID:	none
Storage Attributes:	Main Storage: N/A Virtual Storage: N/A Auxiliary Storage: N/A Subpool: N/A Key: N/A Data Space: N/A Residency: N/A
Size:	VARIABLE.
Created by:	THE TRACE WRITER AND THE COPYTRC IPCS SUBCOMMAND.
Pointed to by:	(NOT APPLICABLE)
Serialization:	NONE.
Function:	AHLZGTW DESCRIBES THE STRUCTURE OF THE DIFFERENT KINDS OF RECORD WRITTEN TO DATA SETS BY THE TRACE WRITER. IT DEFINES THE FOLLOWING STRUCTURES:

GTW mapping

Table 899. Structure GTWB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	4	GTWB	An output block of trace data.
0	(0)	UNSIGNED	2	GTWBLEN	The length of the entire block (required by data management).
2	(2)	CHARACTER	2	*	Reserved (data management requires that this be 0).
4	(4)	CHARACTER	0	GTWBRECS	Trace output records, mapped by GTW.
4	(4)	CHARACTER	0	GTWBCNTL	The control record that each block must begin with. It is followed by one or more data and lost data records.

Table 900. Structure GTW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	6	GTW	A trace output data record.
0	(0)	SIGNED	2	GTWLEN	The length of the record (required by data management).
2	(2)	CHARACTER	2	*	Reserved (data management requires that this be 0).

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Table 900. Structure GTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	CHARACTER	1	GTWAID	The trace application identifier (AID) for this record. See the constants GTWAxxxx declared below for the possible values of this field.
5	(5)	CHARACTER	1	GTWFID	The trace format identifier for this record.
6	(6)	CHARACTER	0	GTWVAR	The rest of the record. This varies, depending on the value of GTWAID. If this is a control or lost data record, it also depends on GTWFID.

Table 901. Structure GTWC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	GTWC	A trace output control record.
0	(0)	CHARACTER	6	GTWCI	The initial portion, mapped by GTW.
6	(6)	CHARACTER	4	GTWCZONE	The time zone for all the records in this block. It is expected that all the trace records in a single data set or in a collection of data sets to be merged will have the same time zone. If this block contains records that have been merged from different time zones, the value here is the smallest of the time zone values.
10	(A)	CHARACTER	8	GTWCTIME	This contains a time value in TOD-clock format which is less accurate than the time values in individual records. It is present to maintain compatibility with pre-SP4.1.0 traces.
18	(12)	CHARACTER	8	GTWCFORM	Format information for the control record and other records in this block. To maintain some compatibility with pre-SP4.1.0 systems, the GTF options of all sources are ORed here.
18	(12)	BITSTRING	3	*	GTF options and other reserved fields.
21	(15)	1		GTWCFTIM	If 1, individual records have time stamps (this is always the case for post-SP4.1.0 trace records). If 0, the time stamp field in individual records is missing.
22	(16)	BITSTRING	1	*	GTF options and other reserved fields.

Table 901. Structure GTWC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
23	(17)	.... ..1.		GTWCFSID	The data records in this block have source identifiers. Their format is incompatible with pre-SP4.1.0 data.
		1		GTWCFNEW	This block was written by a post-SP4.1.0 trace.
24	(18)	BITSTRING	2	*	Reserved.
26	(1A)	CHARACTER	*	GTWCSRCE	The array of source descriptors for the origins of the records in this block. A source descriptor is mapped by GTS in AHLZGTS. The source identifier in fields GTWLSRCE and GTWDSRCE is an array index (beginning with 1). All source descriptor arrays are the same in all control records in a trace data set.

Table 902. Structure GTWL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	24	GTWL	A lost trace data record.
0	(0)	CHARACTER	6	GTWLI	The initial portion, mapped by GTW.
6	(6)	CHARACTER	4	GTWLZONE	The time zone for this record.
10	(A)	CHARACTER	8	GTWLTIME	The time-of-day clock value for this record.
18	(12)	UNSIGNED	4	GTWLCNT	The count of lost trace events. If this is a "lost system storage block" record (FID=3), the value of this field is undefined.
22	(16)	CHARACTER	0	GTWLEND1	End of the lost data record when the source ID is not present.
22	(16)	SIGNED	2	GTWLSRCE	If GTWCFSID=1 in the control records associated with this data set, this is the source ID of the source that created the lost data. If GTWCFSID=0, this field is missing. (New in SP4.1.0.)
24	(18)	CHARACTER	0	GTWLEND2	End of the lost data record when the source ID is present.

Table 903. Structure GTWD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	24	GTWD	A trace data record.
0	(0)	CHARACTER	6	GTWDI	The initial portion, mapped by GTW.

Table 903. Structure GTWD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
6	(6)	CHARACTER	8	GTWDTIME	The time stamp for when this record was created (time-of-day clock format).
14	(E)	BITSTRING	2	GTWDEID	The event identifier.
		1111		GTWDMCLA	The monitor class for this event.
14	(E)	BITSTRING	1	GTWDMCOD	The monitor code for this event.
16	(10)	CHARACTER	0	GTWDEND1	The data part of the record, if GTWDSRCE is not present.
16	(10)	SIGNED	2	GTWDSRCE	If GTWCFSID = 1, this is the identifier of the trace source that created this record. If GTWCFSID = 0, this field is missing, or is all 0 if this is a split record.
18	(12)	CHARACTER	0	GTWDEND2	The data part of the record, if GTWDSRCE is present and this is not a split record.
18	(12)	SIGNED	2	GTWDSEQ	(Split records only) The sequence number of this split record.
20	(14)	SIGNED	4	GTWDTOTL	(Split records only) The total length of the split trace data.
24	(18)	CHARACTER	0	GTWDEND3	(Split records only) The data part of the record.

Table 904. Constants for GTW

Len	Type	Value	Name	Description
Application identifiers (AIDs)				
1	HEX	00	GTWACNLD	Control or lost data record.
1	HEX	F0	GTWASPLF	Split trace data record (first record).
1	HEX	F1	GTWASPLM	Split trace data record (middle record).
1	HEX	F3	GTWASPLL	Split trace data record (last record).
FD and FE: reserved.				
1	HEX	FF	GTWADATA	Trace data record (not split).
Format identifiers (FIDs)				
AID 0, FID 0 is reserved. This was used before SP4.1.0 for the save-hook record that moved data from GTF to SDUMP and ABDUMP.				
1	HEX	01	GTWFCNTL	If GTWAID=GTWACNLD, this is a control record.
1	HEX	02	GTWFLDSY	If GTWAID=GTWACNLD, this is a lost data record. A system storage buffer (GTF BLOK) for the data could not be found.

Table 904. Constants for GTW (continued)

Len	Type	Value	Name	Description
1	HEX	03	GTWFLDCS	If GTWAID=GTWACNLD, this is a lost data record. A system storage buffer (GTF BLOK) was lost.

Table 905. Cross Reference for GTW

Name	Offset	Hex Tag
GTW	0	
GTWAID	4	
GTWB	0	
GTWBCNTL	4	
GTWBLEN	0	
GTWBRECS	4	
GTWC	0	
GTWCFNEW	17	01
GTWCFORM	12	
GTWCFSID	17	02
GTWCFTIM	15	01
GTWCI	0	
GTWCSRCE	1A	
GTWCTIME	A	
GTWCZONE	6	
GTWD	0	
GTWDEID	E	
GTWDEND1	10	
GTWDEND2	12	
GTWDEND3	18	
GTWDI	0	
GTWDMCLA	E	F0
GTWDMCOD	E	
GTWDSEQ	12	
GTWDSRCE	10	
GTWDTIME	6	
GTWDTOTL	14	
GTWFID	5	
GTWL	0	
GTWLCNT	12	
GTWLEN	0	
GTWLEND1	16	
GTWLEND2	18	
GTWLI	0	
GTWLSRCE	16	
GTWLTIME	A	
GTWLZONE	6	
GTWVAR	6	

Chapter 222. GTZZCNI Information

GTZZCNI Programming Interface Information

GTZZCNI is a programming interface.

GTZZCNI Heading Information

Common Name:	GTZCNIDT constants
Macro ID:	GTZZCNI
DSECT Name:	None
Owning Component:	IBM Generic Tracker (SCGTZ)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: N/A Key: N/A Residency: Caller-supplied
Size:	N/A
Created by:	N/A
Pointed to by:	N/A
Serialization:	None required
Function:	Provide equates for return and reason codes and other constants related to utility GTZCNIDT

GTZZCNI mapping

Table 906. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

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Table 906. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
GTZZCNI_1:; START OF SPECIFICATIONS 01 PROPRIETARY STATEMENT= LICENSED MATERIALS - PROPERTY OF IBM 5650-ZOS COPYRIGHT IBM CORP. 2013 STATUS= HBB7790 END_OF_PROPRIETARY_STATEMENT 01 DESCRIPTIVE NAME: GTZCNIDT constants 01 MACRO NAME: GTZZCNI 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: 01 DSECT NAME: None 01 COMPONENT: IBM Generic Tracker (SCGTZ) 01 EYE-CATCHER: NONE 01 STORAGE ATTRIBUTES: 02 SUBPOOL: N/A 02 KEY: N/A 02 RESIDENCY: Caller-supplied 01 SIZE: N/A 01 CREATED BY: N/A 01 POINTED TO BY: N/A 01 SERIALIZATION: None required 01 FUNCTION: 02 Provide equates for return and reason codes and other constants related to utility GTZCNIDT 01 METHOD OF ACCESS: 02 ASM: GTZZCNI 02 PL/X: %INCLUDE SYSLIB(GTZZCNI) 01 DELETED BY: N/A 01 FREQUENCY: N/A 01 DEPENDENCIES: None. 01 DISTRIBUTION LIBRARY: AMACLIB 01 CHANGE ACTIVITY: $L0=GENTRKR ,HBB7790,120823,RD00UT: Initial create Maintain also in GTZCNIDT::GTZCNID_RECORDERROR Sync with GTZZPRT END OF SPECIFICATIONS					
0	(0) X'23'		0	GTZCNIDTRC_MAXTEXTLEN	"35"
GTZCnidt return codes Return code format: 0000rrxy, with rr= return code, xy= (actual) reason code, x=4					
	....			GTZCNIDTRC_OK	"X'00000000'" Meaning: Successful request. Action: None required
RC=8 (x08)					
0	(0) BITSTRING		0	GTZCNIDTRC_PARMNOTEMPTY	"X'00000840'" Decimal: 2112 Meaning: PARM value not allowed. Action: Do not specify a PARM value for program GTZCNIDT.

Table 906. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	GTZCNIDTRC_BADLRECLSYSOUT	"X'00000841'" Decimal: 2113 Meaning: Not an accepted LRECL for SYSOUT. Action: Specify a SYSOUT with LRECL=80.
0	(0)	BITSTRING	0	GTZCNIDTRC_NOTPDSMBRSYSOUT	"X'00000842'" Decimal: 2114 Meaning: Not a PDS member. Action: For a PDS SYSOUT specify a valid member.
0	(0)	BITSTRING	0	GTZCNIDTRC_NOTALLOCSYSOUT	"X'00000843'" Decimal: 2115 Meaning: Not allocated. Action: Specify a valid SYSOUT DD.
0	(0)	BITSTRING	0	GTZCNIDTRC_SKIPPEDLINES	"X'00000844'" Decimal: 2116 Meaning: One or more CNIDTRxx exclusion statements have been ignored. Action: Check the syntax of the CNIDTRxx statements specified via SYSIN. Look for additional error messages in the log or SYSOUT and correct any errors.
0	(0)	BITSTRING	0	GTZCNIDTRC_BADLRECLSYSIN	"X'00000845'" Decimal: 2117 Meaning: Not an accepted LRECL for SYSIN. Action: Specify a SYSIN with LRECL=80.
0	(0)	BITSTRING	0	GTZCNIDTRC_NOTPDSMBRSYSIN	"X'00000846'" Decimal: 2118 Meaning: Not a PDS member. Action: For a PDS SYSIN specify a valid member.
0	(0)	BITSTRING	0	GTZCNIDTRC_NOTALLOCSYSIN	"X'00000847'" Decimal: 2119 Meaning: Not allocated. Action: Specify a valid SYSIN DD.
0	(0)	BITSTRING	0	GTZCNIDTRC_BADMASK	"X'00000850'" Decimal: 2122 Meaning: Bad mask value. Action: Do not use leading blanks or all blanks in the information mask, the program name mask, nor the jobname mask.
RC=12 (x0C)					
0	(0)	BITSTRING	0	GTZCNIDTRC_OPENFAILEDSYSOUT	"X'00000C40'" Decimal: 3136 Meaning: Open failed. Action: Unknown error when opening the SYSOUT dataset. Ensure that the SYSOUT DD specifies a valid dataset.
0	(0)	BITSTRING	0	GTZCNIDTRC_OPENFAILEDSYSIN	"X'00000C41'" Decimal: 3137 Meaning: Open failed. Action: Unknown error when opening the SYSIN dataset. Ensure that the SYSIN DD specifies a valid dataset.
0	(0)	BITSTRING	0	GTZCNIDTRC_WRITEFAILEDSYSOUT	

Table 906. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000C42'" Decimal: 3138 Meaning: Write (PUT) failed. Action: Ensure SYSOUT has enough room for the output data or is not otherwise corrupted.
0	(0)	BITSTRING	0	GTZCNIDTRC_WRITENOSPACESYSOUT	
					"X'00000C43'" Decimal: 3139 Meaning: Write (PUT) ran out of space. Action: Ensure SYSOUT has enough room for the output data.
0	(0)	BITSTRING	0	GTZCNIDTRC_WRITEABENDSYSOUT	
					"X'00000C44'" Decimal: 3140 Meaning: Write (PUT) ABENDed. Action: Check the log for additional messages.

Table 907. Cross Reference for GTZZCNI

Name	Offset	Hex Tag
GTZCNIDTRC_BADLRECLSYSIN	0	845
GTZCNIDTRC_BADLRECLSYSOUT	0	841
GTZCNIDTRC_BADMASK	0	850
GTZCNIDTRC_MAXTEXTLEN	0	23
GTZCNIDTRC_NOTALLOCSYSIN	0	847
GTZCNIDTRC_NOTALLOCSYSOUT	0	843
GTZCNIDTRC_NOTPDSMBRSYSIN	0	846
GTZCNIDTRC_NOTPDSMBRSYSOUT	0	842
GTZCNIDTRC_OK	0	0
GTZCNIDTRC_OPENFAILEDSYSIN	0	C41
GTZCNIDTRC_OPENFAILEDSYSOUT	0	C40
GTZCNIDTRC_PARMNOTEMPTY	0	840
GTZCNIDTRC_SKIPPEDLINES	0	844
GTZCNIDTRC_WRITEABENDSYSOUT	0	C44
GTZCNIDTRC_WRITEFAILEDSYSOUT	0	C42
GTZCNIDTRC_WRITENOSPACESYSOUT	0	C43

Chapter 223. GTZZPRT Information

GTZZPRT Programming Interface Information

GTZZPRT is a programming interface.

GTZZPRT Heading Information

Common Name:	GTZPRINT constants
Macro ID:	GTZZPRT
DSECT Name:	None
Owning Component:	IBM Generic Tracker (SCGTZ)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: N/A Key: N/A Residency: Caller-supplied
Size:	N/A
Created by:	N/A
Pointed to by:	N/A
Serialization:	None required
Function:	Provide equates for return and reason codes and other constants related to utility GTZPRINT

GTZZPRT mapping

Table 908. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

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Table 908. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
GTZZPRT_1:; START OF SPECIFICATIONS 01 PROPRIETARY STATEMENT= LICENSED MATERIALS - PROPERTY OF IBM 5650-ZOS COPYRIGHT IBM CORP. 2013 STATUS= HBB7790 END_OF_PROPRIETARY_STATEMENT 01 DESCRIPTIVE NAME: GTZPRINT constants 01 MACRO NAME: GTZZPRT 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: 01 DSECT NAME: None 01 COMPONENT: IBM Generic Tracker (SCGTZ) 01 EYE-CATCHER: NONE 01 STORAGE ATTRIBUTES: 02 SUBPOOL: N/A 02 KEY: N/A 02 RESIDENCY: Caller-supplied 01 SIZE: N/A 01 CREATED BY: N/A 01 POINTED TO BY: N/A 01 SERIALIZATION: None required 01 FUNCTION: 02 Provide equates for return and reason codes and other constants related to utility GTZPRINT 01 METHOD OF ACCESS: 02 ASM: GTZZPRT 02 PL/X: %INCLUDE SYSLIB(GTZZPRT) 01 DELETED BY: N/A 01 FREQUENCY: N/A 01 DEPENDENCIES: None. 01 DISTRIBUTION LIBRARY: AMACLIB 01 CHANGE ACTIVITY: $L0=GENTRKR ,HBB7790,120222,RD00UT: Initial create Maintain also in GTZPRINT::GTZPRT_RECORDERROR END OF SPECIFICATIONS					
0	(0)	X'23'	0	GTZPRINTRC_MAXTEXTLEN	"35" GTZPRINT return codes Return code format: 0000rrxy, with rr= return code, xy= (actual) reason code, x=4
....	....			GTZPRINTRC_OK	"X'00000000'" Meaning: Successful request. Action: None required RC=8 (x08)
0	(0)	BITSTRING	0	GTZPRINTRC_PARMNOTEMPTY	"X'00000840'" Decimal: 2112 Meaning: PARM value not allowed. Action: Do not specify a PARM value for program GTZPRINT.

Table 908. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	GTZPRINTRC_BADLRECLSYSOUT	"X'00000841'" Decimal: 2113 Meaning: Not an accepted LRECL for SYSOUT. Action: Specify a SYSOUT with LRECL=80.
0	(0)	BITSTRING	0	GTZPRINTRC_NOTPDSMBRSYSOUT	"X'00000842'" Decimal: 2114 Meaning: Not a PDS member. Action: For a PDS SYSOUT specify a valid member.
0	(0)	BITSTRING	0	GTZPRINTRC_NOTALLOCSYSOUT	"X'00000843'" Decimal: 2115 Meaning: Not allocated. Action: Specify a valid SYSOUT DD.
0	(0)	BITSTRING	0	GTZPRINTRC_PARSEFAILED	"X'00000844'" Decimal: 2116 Meaning: Statement parse error. Action: Check the syntax of the print statements specified via SYSIN. Look for additional error messages in the log and correct any errors.
0	(0)	BITSTRING	0	GTZPRINTRC_BADLRECLSYSIN	"X'00000845'" Decimal: 2117 Meaning: Not an accepted LRECL for SYSIN. Action: Specify a SYSIN with LRECL=80.
0	(0)	BITSTRING	0	GTZPRINTRC_NOTPDSMBRSYSIN	"X'00000846'" Decimal: 2118 Meaning: Not a PDS member. Action: For a PDS SYSIN specify a valid member.
0	(0)	BITSTRING	0	GTZPRINTRC_NOTALLOCSYSIN	"X'00000847'" Decimal: 2119 Meaning: Not allocated. Action: Specify a valid SYSIN DD.
0	(0)	BITSTRING	0	GTZPRINTRC_QUERYFAILEDAUTH	"X'00000848'" Decimal: 2120 Meaning: GTZQUERY authorization error. Action: Ensure that the caller of GTZPRINT satisfy the RACF authorization requirements for the GTZQUERY service: READ access to the XFACILIT class resource GTZ.sysname.QUERY
RC=12 (x0C)					
0	(0)	BITSTRING	0	GTZPRINTRC_OPENFAILEDSYSOUT	"X'00000C40'" Decimal: 3136 Meaning: Open failed. Action: Unknown error when opening the SYSOUT dataset. Ensure that the SYSOUT DD specifies a valid dataset.
0	(0)	BITSTRING	0	GTZPRINTRC_OPENFAILEDSYSIN	"X'00000C41'" Decimal: 3137 Meaning: Open failed. Action: Unknown error when opening the SYSIN dataset. Ensure that the SYSIN DD specifies a valid dataset.
0	(0)	BITSTRING	0	GTZPRINTRC_WRITEFAILEDSYSOUT	

Table 908. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000C42'" Decimal: 3138 Meaning: Write (PUT) failed. Action: Ensure SYSOUT has enough room for the output data or is not otherwise corrupted.
0	(0)	BITSTRING	0	GTZPRINTRC_WRITENOSPACESYSOUT	
					"X'00000C43'" Decimal: 3139 Meaning: Write (PUT) ran out of space. Action: Ensure SYSOUT has enough room for the output data.
0	(0)	BITSTRING	0	GTZPRINTRC_WRITEABENDSYSOUT	
					"X'00000C44'" Decimal: 3140 Meaning: Write (PUT) ABENDed. Action: Check the log for additional messages.
RC=16 (x10)					
0	(0)	BITSTRING	0	GTZPRINTRC_QUERYFAILED	"X'00001040'" Decimal: 4160 Meaning: GTZQUERY error. Action: Check the DIAG value for a valid GTZQUERY reason code. If the problem can not be determined and fixed based on that information, contact IBM Support.

Table 909. Cross Reference for GTZZPRT

Name	Offset	Hex Tag
GTZPRINTRC_BADLRECLSYSIN	0	845
GTZPRINTRC_BADLRECLSYSOUT	0	841
GTZPRINTRC_MAXTEXTLEN	0	23
GTZPRINTRC_NOTALLOCSYSIN	0	847
GTZPRINTRC_NOTALLOCSYSOUT	0	843
GTZPRINTRC_NOTPDSMBRSYSIN	0	846
GTZPRINTRC_NOTPDSMBRSYSOUT	0	842
GTZPRINTRC_OK	0	0
GTZPRINTRC_OPENFAILEDSYSIN	0	C41
GTZPRINTRC_OPENFAILEDSYSOUT	0	C40
GTZPRINTRC_PARMNOTEMPTY	0	840
GTZPRINTRC_PARSEFAILED	0	844
GTZPRINTRC_QUERYFAILED	0	1040
GTZPRINTRC_QUERYFAILEDAUTH	0	848
GTZPRINTRC_WRITEABENDSYSOUT	0	C44
GTZPRINTRC_WRITEFAILEDSYSOUT	0	C42
GTZPRINTRC_WRITENOSPACESYSOUT	0	C43

Chapter 224. GTZZQRY Information

GTZZQRY Programming Interface Information

GTZZQRY is a programming interface.

GTZZQRY Heading Information

Common Name:	GTZQUERY area mappings and constants
Macro ID:	GTZZQRY
DSECT Name:	GTZQUAAHDR GTZQUAASTATUS GTZQUAATRACKDATA GTZQUAAFILTER GTZQUAAEXCLUDE GTZQUAADEBUG
Owning Component:	IBM Generic Tracker for z/OS (SCGTZ)
Eye-Catcher ID:	GTZQUAAH Offset: 0 Length: 8
Storage Attributes:	Subpool: Caller-supplied Key: Caller-supplied Residency: Caller-supplied
Size:	GTZQUAAHEADER -- X'0100' bytes GTZQUAASTATUS -- X'0100' bytes GTZQUAASGTZPRMSUFFIXES -- X'0002' bytes GTZQUAAFILTER -- X'0068' bytes GTZQUAAEXCLUDE -- X'0080' bytes GTZQUAADEBUG -- X'0080' bytes GTZQUAATRACKDATA -- X'00B0' bytes Variable, with minimum required = GtzQuaaMinAnsLen
Created by:	Caller and passed as parameter on ANSAREA keyword on GTZQUERY to be filled in qith query results.
Pointed to by:	GTZQUERY parameter list
Serialization:	None required
Function:	The returned ANSAREA output consists of a header (GTZQUAAHDR) and optionally one or more sections for STATUS (GTZQUAASTATUS), TRACKDATA (GTZQUAATRACKDATA), EXCLUDE (GTZQUAAEXCLUDE), and DEBUG (GTZQUAADEBUG) as indicated by the appropriate fields in the header.

GTZZQRY mapping

Table 910. Structure GTZQUAAHEADER

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GTZQUAAHEADER	
0	(0)	CHARACTER	8	GTZQUAAHEYECATCHER	
8	(8)	BITSTRING	1	GTZQUAAHVERSION	
9	(9)	CHARACTER	3		reserved
12	(C)	BITSTRING	4	GTZQUAAHFLAGS(0)	

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Table 910. Structure GTZQUAAHEADER (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		GTZQUAAHSTATUSVALID	"X'40'" If ON ('1'b), STATUS data was requested and GtzQuaaHStatusOffset contains a valid value
		..1.		GTZQUAAHTRACKDATAVALID	"X'20'" If ON ('1'b), TRACKDATA was requested and GtzQuaaHTrackDataOffset, GtzQuaaHTrackDataEntriesAvailable, and GtzQuaaHTrackDataEntriesProvided contain valid values
		...1		GTZQUAAHEXCLUDEVALID	"X'10'" If ON ('1'b), EXCLUDE data was requested and GtzQuaaHExcludeOffset, GtzQuaaHExcludeEntriesAvailable, and GtzQuaaHExcludeEntriesProvided contain valid values
		.... 1...		GTZQUAAHDEBUGVALID	"X'08'" If ON ('1'b), DEBUG data was requested and GtzQuaaHDebugOffset, GtzQuaaHDebugEntriesAvailable, and GtzQuaaHDebugEntriesProvided contain valid values
12	(C)	BITSTRING	3		
16	(10)	SIGNED	8	GTZQUAAHBYTESAVAILABLE	Total number of bytes needed in the answer area to contain all of the requested information. If this number is larger than GtzQuaaHBytesProvided then some requested information did not fit and some of the following ...EntriesProvided counts might be different than the corresponding ...EntriesAvailable, indicating where only a subset of available information was returned from this call.
24	(18)	SIGNED	8	GTZQUAAHBYTESPROVIDED	Total number of bytes in the answer area that were used to fill in the requested information.
32	(20)	SIGNED	8	GTZQUAAHSTATUSOFFSET	Offset from the start of the answer area to the GtzQuaaStatus section. Only valid for use, if the GtzQuaaHStatusValid flag is ON ('1'b).
40	(28)	SIGNED	8	GTZQUAAHTRACKDATAOFFSET	Offset from the start of the answer area to the first GtzQuaaTrackData entry. Will contain zero for GtzQuaaHTrackDataEntriesProvided=0. Only valid for use, if the GtzQuaaHTrackDataValid flag is ON ('1'b).
48	(30)	SIGNED	8	GTZQUAAHTRACKDATAENTRIESPROVIDED	

Table 910. Structure GTZQUAAHEADER (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					Count of GtzQuaaTrackData entries provided in this answer area, starting at offset GtzQuaaHTrackDataOffset. Only valid for use, if the GtzQuaaHTrackDataValid flag is ON ('1'b).
56	(38)	SIGNED	8	GTZQUAAHTRACKDATAENTRIESAVAILABLE	Total count of GtzQuaaTrackData entries that could have been returned if the answer area would have been large enough. If all available entries fit, this number will be equal to G tzQuaaHTrackDataEntriesProvide d. Only valid, if the GtzQuaaHTrackDataValid flag is ON ('1'b).
64	(40)	SIGNED	8	GTZQUAAHEXCLUDEOFFSET	Offset from the start of the answer area to the first GtzQuaaExclude entry. Will be set to zero for GtzQua aHExcludeEntriesProvided=0. Only valid for use, if the GtzQuaaHExcludeValid flag is ON ('1'b).
72	(48)	SIGNED	8	GTZQUAAHEXCLUDEENTRIESPROVIDED	Count of GtzQuaaExclude entries provided in this answer area, starting at offset GtzQuaaHExcludeOffset. Only valid for use, if the GtzQuaaHExcludeValid flag is ON ('1'b).
80	(50)	SIGNED	8	GTZQUAAHEXCLUDEENTRIESAVAILABLE	Total count of GtzQuaaExclude entries that could have been returned if the answer area would have been large enough. If all available entries fit, this number will be equal to GtzQua aHExcludeEntriesProvided. Only valid, if the GtzQuaaHExcludeValid flag is ON ('1'b).
88	(58)	SIGNED	8	GTZQUAAHDEBUGOFFSET	Offset from the start of the answer area to the first GtzQuaaDebug entry. Will be set to zero for GtzQuaaHDeb ugEntriesProvided=0. Only valid for use, if the GtzQuaaHDebugValid flag is ON ('1'b).
96	(60)	SIGNED	8	GTZQUAAHDEBUGENTRIESPROVIDED	

Table 910. Structure GTZQUAAHEADER (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					Count of GtzQuaaDebug entries provided in this answer area, starting at offset GtzQuaaHDebugOffset. Only valid for use, if the GtzQuaaHDebugValid flag is ON ('1'b).
104	(68)	SIGNED	8	GTZQUAAHDEBUGENTRIESAVAILABLE	
					Total count of GtzQuaaDebug entries that could have been returned if the answer area would have been large enough. If all available entries fit, this number will be equal to GtzQuaaHDebugEntriesProvided. Only valid, if the GtzQuaaHDebugValid flag is ON ('1'b).
112	(70)	SIGNED	8		
120	(78)	CHARACTER	136		Reserved
120	(78)	X'100'	0	GTZQUAAHEADER_LEN	"*-GTZQUAAHEADER"

Table 911. Structure GTZQUAASTATUS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GTZQUAASTATUS	
0	(0)	CHARACTER	8	GTZQUAASEYECATCHER	
8	(8)	BITSTRING	4	GTZQUAASFLAGS(0)	
8	(8)	BITSTRING	1	GTZQUAASFLAGS1(0)	
		1...		GTZQUAASTRACKENABLED	"X'80'" ON ('1'b), if tracking is currently enabled. Compare command SETGTZ TRACKING=ON
		.1..		GTZQUAASFULL	"X'40'" ON ('1'b), if the tracking facility is 'full' and therefore might be unable to store additional unique tracked instances or other information. Compare also GtzQuaaSMemAvailPercent.
		..1.		GTZQUAASEXCLUDENOPRM	"X'20'" ON ('1'b), if some EXCLUDE statements did not originate from a GTZPRMxx parmlib member, but from other sources (like the SETGTZ EXCLUDE command).
		...1		GTZQUAASDEBUGNOPRM	"X'10'" ON ('1'b), if some DEBUG statements did not originate from a GTZPRMxx parmlib member, but from other sources (like the SETGTZ DEBUG command).

Table 911. Structure GTZQUAASTATUS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		GTZQUAASGTZPRMFULL	"X'08'" ON ('1'b), if some GTZPRMxx suffixes could not be recorded centrally and are not reported via GtzQuaaSGtzPrmSuf fixesAvailable below. Those GTZPRMxx members were still processed and their suffixes are still reported for EXCLUDE or DEBUG statements, with ORIGIN(PARMLIB), but their suffixes just didn't fit into the centrally kept list of suffixes.
		.... .1..		GTZQUAASCLEAREDALL	"X'04'" ON ('1'b), if CLEAR=ALL has been used for this instance of Generic Tracker. If ON, the other "cleared" bits (GtzQuaaSClearedTRACKDATA, GtzQuaaSClearedEXCLUDE, and GtzQuaaSClearedDEBUG) will be set to ON as well, if the appropriate collection was not empty to begin with, since a CLEAR=ALL includes clearing all such data.
		.... ..1.		GTZQUAASCLEAREDTRACKDATA	"X'02'" ON ('1'b), if CLEAR=ALL or CLEAR=TRACKDATA has been used for this instance of Generic Tracker and if there was any track data to be cleared.
		1		GTZQUAASCLEAREDEXCLUDE	"X'01'" ON ('1'b), if CLEAR=ALL or CLEAR=EXCLUDE has been used for this instance of Generic Tracker and if there were any EXLCUDEs to be cleared.
9	(9)	BITSTRING	1	GTZQUAASFLAGS2(0)	
		1...		GTZQUAASCLEAREDDEBUG	"X'80'" ON ('1'b), if CLEAR=ALL or CLEAR=DEBUG has been used for this instance of Generic Tracker and if there were any DEBUGs to be cleared.
		.1..		GTZQUAASPERSISTSMF	"X'40'" ON ('1'b), if data persistence via SMF records is enabled.
10	(A)	BITSTRING	1	GTZQUAASFLAGS3(0)	
10	(A)	BITSTRING	1		
11	(B)	BITSTRING	1	GTZQUAASFLAGS4(0)	
11	(B)	BITSTRING	1		
12	(C)	SIGNED	4	GTZQUAASENABLEDCOUNT	Total number of times the tracking status moved from disabled to enabled, since the tracking facility started (disabled by default).
16	(10)	SIGNED	8	GTZQUAASTRACKDATAENTRIESAVAILABLE	

Table 911. Structure GTZQUAASTATUS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					Total number of unique tracked instances currently known to the tracking facility
24	(18)	SIGNED	8	GTZQUAASEXCLUDEENTRIESAVAILABLE	
					Total number of exclusion statements currently known to the tracking facility. Compare the GTZPRMxx EXCLUDE statement.
32	(20)	SIGNED	8	GTZQUAASDEBUGENTRIESAVAILABLE	
					Total number of DEBUG statements currently known to the tracking facility. Compare the GTZPRMxx DEBUG statement.
40	(28)	SIGNED	8		
48	(30)	SIGNED	8	GTZQUAASTRACKDATAENTRIESENCOUNTERED	
					Total number of non-unique tracked instances currently known to the tracking facility
56	(38)	SIGNED	8	GTZQUAASEXCLUDEREJECTCOUNT	Total number of GTZTRACK requests rejected due to a matching EXCLUDE statement. This counter is reset when the EXCLUDE statements are cleared.
64	(40)	SIGNED	8	GTZQUAASDEBUGACTIONCOUNT	Total number of GTZTRACK requests which triggered a DEBUG action as specified by a matching DEBUG statement (with its LIMIT not exceeded yet). This counter is reset when the DEBUG statements are cleared.
72	(48)	SIGNED	2	GTZQUAASGTZPRMSUFFIXESAVAILABLE	
					Total number of GTZPRMxx members currently known to the tracking facility.
74	(4A)	SIGNED	2	GTZQUAASGTZPRMSUFFIXESPROVIDED	
					Number of GTZPRMxx suffixes actually returned in this GtzQuaaStatus area. This might be less than GtzQuaaSGtzPrmSuffixesAvailable, if the provided ANSAREA is too small to hold all information.
76	(4C)	SIGNED	2	GTZQUAASGTZPRMSUFFIXESOFFSET	

Table 911. Structure GTZQUAASTATUS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					Offset from the start of this GtzQuaaStatus area to the start of a list of GtzQuaaSGtzPrmSuffixesProvided number of suffixes of the GTZPRMxx parmlib members currently known to the tracking facility. The list is a simple 'array' of consecutive two-character suffixes and can be mapped by GtzQuaaSGtzPrmSuffixes.
78	(4E)	SIGNED	2	GTZQUAASGTZPRMIPLSUFFIXESAVAILABLE	
					Total number of GTZPRMxx member suffixes specified at IPL time via system parameter GTZPRM, e.g. in IEASYSxx. The currently known GTZPRMxx suffix list might be different than this IPL-time list, if suffixes have been added or cleared in between.
80	(50)	SIGNED	2	GTZQUAASGTZPRMIPLSUFFIXESPROVIDED	
					Number of IPL-time GTZPRMxx suffixes actually returned in this GtzQuaaStatus area. This might be less than GtzQuaaSGtzPrmIpl SuffixesAvailable, if the provided ANSAREA is too small to hold all information.
82	(52)	SIGNED	2	GTZQUAASGTZPRMIPLSUFFIXESOFFSET	
					Offset from the start of this GtzQuaaStatus area to the start of a list of GtzQuaaSGtz PrmIplSuffixesProvided number of suffixes of the GTZPRMxx parmlib members specified at IPL-time. The list is a simple 'array' of consecutive two-character suffixes and can be mapped by GtzQuaaSGtzPrmSuffixes.
84	(54)	BITSTRING	1	GTZQUAASMEMAVAILPERCENT	How much (in percent) of our total dynamic memory is still available to store track data etc. When GtzQuaaSFull is ON this will be zero.
85	(55)	CHARACTER	3		Reserved
88	(58)	CHARACTER	8	GTZQUAASSYSTEMNAME	The name of the system the (unique per system) tracking facility is running on.
96	(60)	BITSTRING	1		

Table 911. Structure GTZQUAASTATUS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
97	(61)	BITSTRING	8	GTZQUAASENABLEDTOD	The timestamp when tracking was last enabled (if GtzQuaaSTrackEnabled=ON), or when tracking was last disabled (if GtzQuaaSTrackEnabled=OFF), where the latter might be the time of when the facility started, if tracking has not been enabled since. See also GtzQuaaSEnabledCount.
105	(69)	BITSTRING	7		
112	(70)	CHARACTER	144		Reserved
112	(70)	X'100'	0	GTZQUAASTATUS_LEN	"*-GTZQUAASTATUS" PLX-ONLY

Table 912. Structure GTZQUAASGTZPRMSUFFIXES

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GTZQUAASGTZPRMSUFFIXES	
0	(0)	CHARACTER	2	GTZQUAASGTZPRMSUFFIX	
0	(0)	X'2'	0	GTZQUAASGTZPRMSUFFIXES_LEN	"*-GTZQUAASGTZPRMSUFFIXES"

Table 913. Structure GTZQUAAFILTER

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GTZQUAAFILTER	
0	(0)	BITSTRING	1	GTZQUAAFFILTEREDFLAGS1(0)	
		1...		GTZQUAAFOWNERFILTERED	"X'80'" ON, if filtering by OWNER
		.1..		GTZQUAAFSOURCEFILTERED	"X'40'" ON, if filtering by SOURCE. Only valid for SOURCETYPE=NOPATH
		..1.		GTZQUAAFSOURCEPATHFILTERED	"X'20'" ON, if filtering by SOURCEPATH. Only valid for SOURCETYPE=PATH
		...1		GTZQUAAFEVENTDESCFILTERED	"X'10'" ON, if filtering by EVENTDESC
		.... 1...		GTZQUAAFEVENTDATAFILTERED	"X'08'" ON, if filtering by EVENTDATA
		.... .1..		GTZQUAAFEVENTJOBFILTERED	"X'04'" ON, if filtering by EVENTJOB
		.... ..1.		GTZQUAAFHOMEJOBFILTERED	"X'02'" ON, if filtering by HOMEJOB
		1		GTZQUAAFPROGRAMFILTERED	"X'01'" ON, if filtering by PROGRAM. Only valid for PROGRAMTYPE=NOPATH
1	(1)	BITSTRING	1	GTZQUAAFFILTEREDFLAGS2(0)	
		1...		GTZQUAAFPROGRAMPATHFILTERED	"X'80'" ON, if filtering by PROGRAMPATH. Only valid for PROGRAMTYPE=PATH
		.1..		GTZQUAAFPROGRAMOFFSETFILTERED	

Table 913. Structure GTZQUAAFILTER (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'40'" ON, if filtering by PROGRAMOFFSET
		..1.		GTZQUAAFEVENTASIDFILTERED	"X'20'" ON, if filtering by EVENTASID
		...1		GTZQUAAFHOMEASIDFILTERED	"X'10'" ON, if filtering by HOMEASID
		.... 1...		GTZQUAAFSOURCETYPEFILTERED	"X'08'" ON, if SOURCETYPE <> ALL
		.... .1..		GTZQUAAFPROGRAMTYPEFILTERED	"X'04'" ON, if PROGRAMTYPE <> ALL
2	(2)	BITSTRING	1	GTZQUAAFSOURCETYPE	Indicates what type of source this filter is defined to match: SOURCE, SOURCEPATH, or both. See the corresponding GtzQuaaSourceType equates.
3	(3)	BITSTRING	1	GTZQUAAFPROGRAMTYPE	Indicates what type of program this filter is defined to match: PROGRAM, PROGRAMPATH, or both. See the corresponding GtzQuaaProgramType equates.
4	(4)	CHARACTER	4		reserved
8	(8)	CHARACTER	16	GTZQUAAFOWNER	OWNER filter value. Only valid if GtzQuaaFOwnerFiltered is ON
24	(18)	CHARACTER	8	GTZQUAAFSOURCE	SOURCE filter value. Only valid if GtzQuaaFSourceFiltered is ON
32	(20)	SIGNED	2	GTZQUAAFSOURCEPATHLEN	length of the SOURCEPATH filter value. Only valid if GtzQuaaFSourcePathFiltered is ON
34	(22)	SIGNED	2	GTZQUAAFSOURCEPATHOFFSET	Offset from the start of this GtzQuaaFilter area to the SOURCEPATH filter value of the above length. Only valid if GtzQuaaFSourcePathFiltered is ON
36	(24)	SIGNED	2	GTZQUAAFEVENTDESCLEN	length of the EVENTDESC filter value. Only valid if GtzQuaaFEventDescFiltered is ON
38	(26)	SIGNED	2	GTZQUAAFEVENTDESCOFFSET	Offset from the start of this GtzQuaaFilter area to the EVENTDESC filter value of the above length. Only valid if GtzQuaaFEventDescFiltered is ON
40	(28)	CHARACTER	16	GTZQUAAFEVENTDATA(0)	EVENTDATA filter value. Only valid if GtzQuaaFEventDataFiltered is ON
40	(28)	SIGNED	8	GTZQUAAFEVENTDATA1	
48	(30)	SIGNED	8	GTZQUAAFEVENTDATA2	
56	(38)	CHARACTER	8	GTZQUAAFEVENTJOB	EVENTJOB filter value. Only valid if GtzQuaaFEventJobFiltered is ON
64	(40)	CHARACTER	8	GTZQUAAFHOMEJOB	HOMEJOB filter value. Only valid if GtzQuaaFHomeJobFiltered is ON
72	(48)	CHARACTER	8	GTZQUAAFPROGRAM	PROGRAM filter value. Only valid if GtzQuaaFProgramFiltered is ON

Table 913. Structure GTZQUAAFILTER (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
80	(50)	SIGNED	8	GTZQUAAFPROGRAMOFFSET	PROGRAMOFFSET filter value. Only valid if GtzQuaaFProgramOffsetFiltered is ON
88	(58)	SIGNED	2	GTZQUAAFPROGRAMPATHLEN	length of the PROGRAMPATH filter value. Only valid if GtzQuaaFProgramPathFiltered is ON
90	(5A)	SIGNED	2	GTZQUAAFPROGRAMPATHOFFSET	Offset from the start of this GtzQuaaFilter area to the PROGRAMPATH filter value of the above length. Only valid if GtzQuaaFProgramPathFiltered is ON
92	(5C)	SIGNED	2	GTZQUAAFEVENTASID	EVENTASID filter value. Only valid if GtzQuaaFEventASIDFiltered is ON
94	(5E)	SIGNED	2	GTZQUAAFHOMEASID	HOMEASID filter value. Only valid if GtzQuaaFHomeASIDFiltered is ON
96	(60)	CHARACTER	8		reserved
96	(60)	X'0'	0	GTZQUAASOURCETYPEALL	"0"
96	(60)	X'1'	0	GTZQUAASOURCETYPENOPATH	"1"
96	(60)	X'2'	0	GTZQUAASOURCETYPEPATH	"2"
96	(60)	X'0'	0	GTZQUAAPROGRAMTYPEALL	"0"
96	(60)	X'1'	0	GTZQUAAPROGRAMTYPENOPATH	"1"
96	(60)	X'2'	0	GTZQUAAPROGRAMTYPEPATH	"2"
96	(60)	X'1'	0	GTZQUAAORIGINTYPEPARMLIB	"1"
96	(60)	X'2'	0	GTZQUAAORIGINTYPECOMMAND	"2"
96	(60)	X'4'	0	GTZQUAAORIGINTYPEPROGRAM	"4"
96	(60)	X'68'	0	GTZQUAAFILTER_LEN	"*-GTZQUAAFILTER"

Table 914. Structure GTZQUAAEXCLUDE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GTZQUAAEXCLUDE	
0	(0)	CHARACTER	8	GTZQUAAEEYECATCHER	
8	(8)	SIGNED	2	GTZQUAAEOFFSETNEXT	Offset to the next GtzQuaaExclude area, or zero, if no more such areas available. The offset is zero-based and is relative to the beginning of this GtzQuaaExclude area here.
10	(A)	CHARACTER	2	GTZQUAAEORIGINSUFFIX	If this EXCLUDE was specified via a GTZPRMxx parmlib member, as indicated by a GtzQuaaEOriginType value of GtzQuaaOriginTypePARMLIB, this field here contains the xx suffix.

Table 914. Structure GTZQUAAEXCLUDE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	BITSTRING	1	GTZQUAAEORIGINTYPE	Indicates where this EXCLUDE originated from: A GTZPRMxx parmlib member, a SETGTZ EXCLUDE command, or a program interface. See the corresponding GtzQuaaOriginTyp ePARMLIB/COMMAND/PROGRAM equates.
13	(D)	CHARACTER	3		reserved
16	(10)	CHARACTER	8		reserved
24	(18)	CHARACTER	104	GTZQUAAEFLT	The filter values used for this EXCLUDE
Mapping of a single DEBUG statement within the ANSAREA, starting with the first statement at offset GtzQuaaHDebugOffset (see GtzQuaaHeader) from the beginning of the answer area filled in by GTZQUERY. Any additional DEBUG statements can be reached via GtzQuaaDOffsetNext within a current GtzQuaaDebug structure.					
24	(18)	X'1'	0	GTZQUAADACTIONABEND	"1"
24	(18)	X'2'	0	GTZQUAADACTIONDUMP	"2"
24	(18)	X'0'	0	GTZQUAADACTIONNOLIMIT	"0"
24	(18)	X'80'	0	GTZQUAAEXCLUDE_LEN	"*-GTZQUAAEXCLUDE"

Table 915. Structure GTZQUAADEBUG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GTZQUAADEBUG	
0	(0)	CHARACTER	8	GTZQUAADEYECATCHER	
8	(8)	SIGNED	2	GTZQUAADOFFSETNEXT	Offset to the next GtzQuaaDebug area, or zero, if no more such areas available. The offset is zero-based and is relative to the beginning of this GtzQuaaDebug area here.
10	(A)	SIGNED	2	GTZQUAADREASON	DEBUG REASON-code
12	(C)	SIGNED	2	GTZQUAADACTIONLIMIT	How often the system is allowed to trigger the action for this DEBUG statement (when matched by a new tracked instance candidate). A value of GtzQuaaDActionNOLIMIT means "no limit".
14	(E)	BITSTRING	1	GTZQUAADACTION	See GtzQuaaDActionDUMP|ABEND
15	(F)	BITSTRING	1	GTZQUAADORIGINTYPE	Indicates where this DEBUG originated from: A GTZPRMxx parmlib member, a SETGTZ DEBUG command, or a program interface. See the corresponding GtzQuaaOriginTyp ePARMLIB/COMMAND/PROGRAM equates.

Table 915. Structure GTZQUAADEBUG (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	CHARACTER	2	GTZQUAADORIGINSUFFIX	If this DEBUG was specified via a GTZPRMxx parmlib member, as indicated by a GtzQuaaDOriginType value of GtzQuaaOriginTypePARMLIB, this field here contains the xx suffix.
18	(12)	SIGNED	2	GTZQUAADACTIONCOUNT	How often this DEBUG statement triggered an action so far. Counts towards the ActionLimit, unless GtzQuaaDActionNOLIMIT
20	(14)	CHARACTER	4		reserved
24	(18)	CHARACTER	104	GTZQUAADFLT	The filter values used for this DEBUG
24	(18)	X'80'	0	GTZQUAADEBUG_LEN	"*-GTZQUAADEBUG"

Table 916. Structure GTZQUAATRACKDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GTZQUAATRACKDATA	
0	(0)	CHARACTER	8	GTZQUAATEYECATCHER	
8	(8)	SIGNED	2	GTZQUAATOFFSETNEXT	Offset to the next GtzQuaaTrackData area, or zero, if no more such areas available. The offset is zero-based and is relative to the beginning of this GtzQuaaTrackData area here.
10	(A)	BITSTRING	1	GTZQUAATFLAGS1(0)	
		1...		GTZQUAATISSOURCEPATH	"X'80'" if ON, use SOURCEPATH, not SOURCE
		.1..		GTZQUAATISPROGRAMPATH	"X'40'" if ON, use PROGRAMPATH, not PROGRAM
		..1.		GTZQUAATISAUTHORIZED	"X'20'" if ON, the tracked EVENT ran authorized
		...1		GTZQUAATISCNZTRKR	"X'10'" not a part of the intended interface
11	(B)	CHARACTER	5		
16	(10)	BITSTRING	1		
17	(11)	BITSTRING	8	GTZQUAATFIRSTTOD	The timestamp when the first instance of this (unique) tracked instance was recorded (all others just had the occurrence count incremented).
25	(19)	BITSTRING	7		
32	(20)	SIGNED	8	GTZQUAATCOUNT	How often this (unique) tracked instance was recorded.
40	(28)	CHARACTER	16		
56	(38)	CHARACTER	16	GTZQUAATOWNER	OWNER value.
72	(48)	CHARACTER	8	GTZQUAATSOURCE	SOURCE value. Only valid if GtzQuaaTisSourcePath is OFF
80	(50)	SIGNED	2	GTZQUAATSOURCEPATHLEN	length of the SOURCEPATH value. Only valid if GtzQuaaTisSourcePath is ON

Table 916. Structure GTZQUAATRACKDATA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
82	(52)	SIGNED	2	GTZQUAATSOURCEPATHOFFSET	Offset from the start of this GtzQuaaTrackData area to the SOURCEPATH value of the above length. Only valid if GtzQuaaTisSourcePath is ON
84	(54)	SIGNED	2	GTZQUAATEVENTDESCLEN	length of the EVENTDESC value.
86	(56)	SIGNED	2	GTZQUAATEVENTDESCOFFSET	Offset from the start of this GtzQuaaTrackData area to the EVENTDESC value of the above length.
88	(58)	CHARACTER	16	GTZQUAATEVENTDATA(0)	EVENTDATA value
88	(58)	SIGNED	8	GTZQUAATEVENTDATA1	
96	(60)	SIGNED	8	GTZQUAATEVENTDATA2	
104	(68)	CHARACTER	8	GTZQUAATEVENTJOB	derived EVENTJOB-name value.
112	(70)	CHARACTER	8	GTZQUAATHOMEJOB	derived HOMEJOB-name value.
120	(78)	CHARACTER	8	GTZQUAATPROGRAM	derived PROGRAM-name value. Only valid if GtzQuaaTisProgramPath is OFF
128	(80)	SIGNED	8	GTZQUAATPROGRAMOFFSET	derived PROGRAMOFFSET value.
136	(88)	SIGNED	2	GTZQUAATPROGRAMPATHLEN	length of the PROGRAMPATH value. Only valid if GtzQuaaTisProgramPath is ON
138	(8A)	SIGNED	2	GTZQUAATPROGRAMPATHOFFSET	Offset from the start of this GtzQuaaTrackData area to the derived PROGRAMPATH value of the above length. Only valid if GtzQuaaTisProgramPath is ON
140	(8C)	SIGNED	2	GTZQUAATEVENTASID	EVENTASID value.
142	(8E)	SIGNED	2	GTZQUAATHOMEASID	HOMEASID value.
144	(90)	CHARACTER	32		reserved
GTZQUERY return and reason codes Reason code format: ddddrrxy, with rr= return code, x=8..A, y=0..F and dddd = component diagnostic data, which must not be assumed to be 0. Apply GtzQueryRsnCodeMask to an actual reason code value to derive a value listed below.					
144	(90)	BITSTRING	0	GTZQUERYRSNCODEMASK	"X'0000FFFF'" Use this mask to isolate the non component-diagnostic portion of the reason code or abend reason code
AMGRET - START (RC 0-16, RSNs for RC=4,8,12)					
	....			GTZQUERYRC_OK	"X'00000000'" Meaning: Successfully returned requested information. Action: None required
	.... 1...			GTZQUERYRC_ERROR	"X'00000008'" Meaning: Error Action: Refer to action under the individual reason code.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADREQUEST	"X'00000880'" Meaning: A bad REQUEST type has been specified. Action: Use one of the supported request types.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADPARMLISTALET	

Table 916. Structure GTZQUAATRACKDATA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000881'" Meaning: Bad parameter list ALET. Action: Make sure that the ALET associated with the parameter list is valid. The access register might not have been set up correctly.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADPARMLIST	"X'00000882'" Meaning: Error accessing parameter list. Action: Make sure that the provided parameter list is valid.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADPARMLISTVERSION	"X'00000883'" Meaning: The specified version of the macro is not compatible with the current version of IBM Generic Tracker for z/OS. Action: Avoid requesting parameters that are not supported by this version of IBM Generic Tracker for z/OS.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADANSAREAALET	"X'00000884'" Meaning: Bad ANSAREA ALET. Action: Make sure that the ALET associated with the answer area is valid. The access register might not have been set up correctly.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADANSAREAADDRNULL	"X'00000885'" Meaning: ANSAREA address is NULL. Action: Check the location of your answer area. Typically address zero is not a valid address.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADANSAREAADDRALIGN	"X'00000886'" Meaning: The ANSAREA has a bad alignment. Action: The ANSAREA has to start at a double-word boundary.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADANSLEN	"X'00000887'" Meaning: Bad ANSLEN value. Action: Provide an answer area which is at least GtzQuaaMinAnsLen bytes long.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADANSAREA	"X'00000888'" Meaning: Error accessing answer area. Action: Make sure that the provided answer area is valid.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADSECCHECKVALUE	"X'00000889'" Meaning: Bad SECCHECK value. Action: Specify a support SECCHECK value.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADENVNOTENABLED	"X'0000088A'" Meaning: Not enabled. Action: Avoid using GTZQUERY when not enabled for I/O and external interrupts

Table 916. Structure GTZQUAATRACKDATA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
144	(90)	BITSTRING	0	GTZQUERYRSN_BADENVLOCKED	"X'0000088B'" Meaning: Locked. Action: Avoid using GTZQUERY when a lock is held.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADENVSRBMODE	"X'0000088C'" Meaning: SRB mode. Action: Avoid issuing GTZQUERY in SRB mode.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADENVFRR	"X'0000088D'" Meaning: The caller had an EUT FRR established. Action: Avoid using HZSPWRIT when an EUT FRR is established.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADENVNOTINGTZ	"X'0000088E'" Meaning: The processing module for GTZQUERY has been invoked outside of the GTZ address space. Action: Use the provided GTZQUERY macro to call the processing module.
144	(90)	BITSTRING	0	GTZQUERYRSN_NOTAUTHORIZED	"X'0000088F'" Meaning: Not authorized. Action: Ensure you are authorized to perform the requested operation.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADOWNERCHARSET	"X'00000891'" Meaning: The OWNER parameter value contains bad characters. Action: Use only allowed characters as documented for the OWNER parameter.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADSOURCEPATHALET	"X'00000892'" Meaning: Bad SOURCEPATH ALET. Action: Make sure that the ALET associated with the SOURCEPATH parameter is valid. The access register might not have been set up correctly.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADSOURCEPATH	"X'00000893'" Meaning: Error accessing SOURCEPATH. Action: Make sure that the provided SOURCEPATH is properly addressable.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADPROGRAMPATHALET	"X'00000894'" Meaning: Bad PROGRAMPATH ALET. Action: Make sure that the ALET associated with the PROGRAMPATH parameter is valid. The access register might not have been set up correctly.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADPROGRAMPATH	"X'00000895'" Meaning: Error accessing PROGRAMPATH. Action: Make sure that the provided PROGRAMPATH is properly addressable.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADEVENTDESCALET	

Table 916. Structure GTZQUAATRACKDATA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000896'" Meaning: Bad EVENTDESC ALET. Action: Make sure that the ALET associated with the EVENTDESC parameter is valid. The access register might not have been set up correctly.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADEVENTDESC	"X'00000897'" Meaning: Error accessing EVENTDESC. Action: Make sure that the provided EVENTDESC is properly addressable.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADPROGRAMCHARSET	"X'00000898'" Meaning: The PROGRAM parameter value contains bad characters. Action: Use only allowed characters as documented for the PROGRAM parameter.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADPROGRAMPATHCHARSET	"X'00000899'" Meaning: The PROGRAMPATH parameter value contains bad characters. Action: Use only allowed characters as documented for the PROGRAMPATH parameter.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADSOURCECHARSET	"X'0000089A'" Meaning: The SOURCE parameter value contains bad characters. Action: Use only allowed characters as documented for the SOURCE parameter.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADSOURCEPATHCHARSET	"X'0000089B'" Meaning: The SOURCEPATH parameter value contains bad characters. Action: Use only allowed characters as documented for the SOURCEPATH parameter.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADEVENTDESCCHARSET	"X'0000089C'" Meaning: The EVENTDESC parameter value contains bad characters. Action: Use only allowed characters as documented for the EVENTDESC parameter.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADEVENTDESCLEN	"X'0000089D'" Meaning: The EVENTDESCLEN parameter value is out of range. Action: Specify an EVENTDESCLEN in the documented allowed range.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADSOURCEPATHLEN	

Table 916. Structure GTZQUAATRACKDATA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'0000089E'" Meaning: The SOURCEPATHLEN parameter value is out of range. Action: Specify an SOURCEPATHLEN in the documented allowed range.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADPROGRAMPATHLEN	
					"X'0000089F'" Meaning: The PROGRAMPATHLEN parameter value is out of range. Action: Specify an PROGRAMPATHLEN in the documented allowed range.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADPROGRAMTYPE	"X'000008A0'" Meaning: Invalid PROGRAMTYPE. Action: Use only documented PROGRAMTYPE values.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADSOURCETYPE	"X'000008A1'" Meaning: Invalid SOURCETYPE. Action: Use only documented SOURCETYPE values.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADHOMEJOBCHARSET	
					"X'000008A2'" Meaning: The HOMEJOB parameter value contains bad characters. Action: Use only allowed characters as documented for the HOMEJOB parameter.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADEVENTJOBCHARSET	
					"X'000008A3'" Meaning: The EVENTJOB parameter value contains bad characters. Action: Use only allowed characters as documented for the EVENTJOB parameter.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADSOURCELEN	"X'000008A4'" Meaning: The SOURCE parameter value has an invalid length. Action: Specify a valid SOURCE value with a length between 1 and 8 characters.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADPROGRAMLEN	"X'000008A5'" Meaning: The PROGRAM parameter value has an invalid length. Action: Specify a valid PROGRAM value with a length between 1 and 8 characters.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADHOMEJOBLEN	"X'000008A6'" Meaning: The HOMEJOB parameter value has an invalid length. Action: Specify a valid HOMEJOB value with a length between 1 and 8 characters.
144	(90)	BITSTRING	0	GTZQUERYRSN_BADEVENTJOBLEN	"X'000008A7'" Meaning: The EVENTJOB parameter value has an invalid length. Action: Specify a valid EVENTJOB value with a length between 1 and 8 characters.

Table 916. Structure GTZQUAATRACKDATA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
144	(90)	BITSTRING	0	GTZQUERYRSN_BADOWNERLEN	"X'000008A8'" Meaning: The OWNER parameter value has an invalid length. Action: Specify a valid OWNER value with a length between 1 and 16 characters.
		.... 11..		GTZQUERYRC_SEVEREERROR	"X'0000000C'" Meaning: Severe Error / Environment Error Action: Refer to action under the individual reason code.
144	(90)	BITSTRING	0	GTZQUERYRSN_FACILITYNOTAVAILABLE	"X'00000C90'" Meaning: Generic Tracker is not available. Action: This might be a temporary situation. See the description of message GTZ1000I for further information.
		.... 11.1		GTZQUERYRC_OUTOFMEMORY	"X'0000000D'" Meaning: Tracking facility is low on memory. Action: See the description of message GTZ0004E. Try also to omit any filters, for example for REQUEST(TRACKDATA).
		...1		GTZQUERYRC_COMPERROR	"X'00000010'" Meaning: Component error. Action: Report the associated reason code to the system programmer to contact IBM Service.
144	(90)	X'B0'	0	GTZQUAATRACKDATA_LEN	"*-GTZQUAATRACKDATA"

Table 917. Cross Reference for GTZZQRY

Name	Offset	Hex Tag
GTZQUAADACTION	E	
GTZQUAADACTIONABEND	18	1
GTZQUAADACTIONCOUNT	12	
GTZQUAADACTIONDUMP	18	2
GTZQUAADACTIONLIMIT	C	
GTZQUAADACTIONNOLIMIT	18	0
GTZQUAADEBUG	0	
GTZQUAADEBUG_LEN	18	80
GTZQUAADEYECATCHER	0	
GTZQUAADFLT	18	
GTZQUAADOFFSETNEXT	8	
GTZQUAADORIGINSUFFIX	10	
GTZQUAADORIGINTYPE	F	
GTZQUAADREASON	A	
GTZQUAAEEYECATCHER	0	
GTZQUAAEFLT	18	
GTZQUAAEOFFSETNEXT	8	
GTZQUAAEORIGINSUFFIX	A	
GTZQUAAEORIGINTYPE	C	
GTZQUAAEXCLUDE	0	

Table 917. Cross Reference for GTZZQRY (continued)

Name	Offset	Hex Tag
GTZQUAAEXCLUDE_LEN	18	80
GTZQUAAFEVENTASID	5C	
GTZQUAAFEVENTASIDFILTERED	1	20
GTZQUAAFEVENTDATA	28	
GTZQUAAFEVENTDATAFILTERED	0	8
GTZQUAAFEVENTDATA1	28	
GTZQUAAFEVENTDATA2	30	
GTZQUAAFEVENTDESCFILTERED	0	10
GTZQUAAFEVENTDESCLEN	24	
GTZQUAAFEVENTDESCOFFSET	26	
GTZQUAAFEVENTJOB	38	
GTZQUAAFEVENTJOBFILTERED	0	4
GTZQUAAFFILTEREDFLAGS1	0	
GTZQUAAFFILTEREDFLAGS2	1	
GTZQUAAFHOMEASID	5E	
GTZQUAAFHOMEASIDFILTERED	1	10
GTZQUAAFHOMEJOB	40	
GTZQUAAFHOMEJOBFILTERED	0	2
GTZQUAAFILTER	0	
GTZQUAAFILTER_LEN	60	68
GTZQUAAFOWNER	8	
GTZQUAAFOWNERFILTERED	0	80
GTZQUAAFPROGRAM	48	
GTZQUAAFPROGRAMFILTERED	0	1
GTZQUAAFPROGRAMOFFSET	50	
GTZQUAAFPROGRAMOFFSETFILTERED	1	40
GTZQUAAFPROGRAMPATHFILTERED	1	80
GTZQUAAFPROGRAMPATHLEN	58	
GTZQUAAFPROGRAMPATHOFFSET	5A	
GTZQUAAFPROGRAMTYPE	3	
GTZQUAAFPROGRAMTYPEFILTERED	1	4
GTZQUAAFSOURCE	18	
GTZQUAAFSOURCEFILTERED	0	40
GTZQUAAFSOURCEPATHFILTERED	0	20
GTZQUAAFSOURCEPATHLEN	20	
GTZQUAAFSOURCEPATHOFFSET	22	
GTZQUAAFSOURCETYPE	2	
GTZQUAAFSOURCETYPEFILTERED	1	8
GTZQUAAHBYTESAVAILABLE	10	
GTZQUAAHBYTESPROVIDED	18	
GTZQUAAHDEBUGENTRIESAVAILABLE	68	
GTZQUAAHDEBUGENTRIESPROVIDED	60	
GTZQUAAHDEBUGOFFSET	58	
GTZQUAAHDEBUGVALID	C	8
GTZQUAAHEADER	0	
GTZQUAAHEADER_LEN	78	100
GTZQUAAHEXCLUDEENTRIESAVAILABLE	50	
GTZQUAAHEXCLUDEENTRIESPROVIDED	48	
GTZQUAAHEXCLUDEOFFSET	40	

Table 917. Cross Reference for GTZZQRY (continued)

Name	Offset	Hex Tag
GTZQUAAHEXCLUDEVALID	C	10
GTZQUAAHEYECATCHER	0	
GTZQUAAHFLAGS	C	
GTZQUAAHSTATUSOFFSET	20	
GTZQUAAHSTATUSVALID	C	40
GTZQUAAHTRACKDATAENTRIESAVAILABLE	38	
GTZQUAAHTRACKDATAENTRIESPROVIDED	30	
GTZQUAAHTRACKDATAOFFSET	28	
GTZQUAAHTRACKDATAVALID	C	20
GTZQUAAHVERSION	8	
GTZQUAAORIGINTYPECOMMAND	60	2
GTZQUAAORIGINTYPEPARMLIB	60	1
GTZQUAAORIGINTYPEPROGRAM	60	4
GTZQUAAPROGRAMTYPEALL	60	0
GTZQUAAPROGRAMTYPENOPATH	60	1
GTZQUAAPROGRAMTYPEPATH	60	2
GTZQUAASCLEAREDALL	8	4
GTZQUAASCLEAREDDEBUG	9	80
GTZQUAASCLEAREDEXCLUDE	8	1
GTZQUAASCLEAREDTRACKDATA	8	2
GTZQUAASDEBUGACTIONCOUNT	40	
GTZQUAASDEBUGENTRIESAVAILABLE	20	
GTZQUAASDEBUGNOPRM	8	10
GTZQUAASENABLEDCOUNT	C	
GTZQUAASENABLEDTOD	61	
GTZQUAASEXCLUDEENTRIESAVAILABLE	18	
GTZQUAASEXCLUDENOPRM	8	20
GTZQUAASEXCLUDEREJECTCOUNT	38	
GTZQUAASEYECATCHER	0	
GTZQUAASFLAGS	8	
GTZQUAASFLAGS1	8	
GTZQUAASFLAGS2	9	
GTZQUAASFLAGS3	A	
GTZQUAASFLAGS4	B	
GTZQUAASFULL	8	40
GTZQUAASGTZPRMFULL	8	8
GTZQUAASGTZPRMIPLSUFFIXESAVAILABLE	4E	
GTZQUAASGTZPRMIPLSUFFIXESOFFSET	52	
GTZQUAASGTZPRMIPLSUFFIXESPROVIDED	50	
GTZQUAASGTZPRMSUFFIX	0	
GTZQUAASGTZPRMSUFFIXES	0	
GTZQUAASGTZPRMSUFFIXES_LEN	0	2
GTZQUAASGTZPRMSUFFIXESAVAILABLE	48	
GTZQUAASGTZPRMSUFFIXESOFFSET	4C	
GTZQUAASGTZPRMSUFFIXESPROVIDED	4A	
GTZQUAASMEMAVAILPERCENT	54	
GTZQUAASOURCETYPEALL	60	0
GTZQUAASOURCETYPENOPATH	60	1
GTZQUAASOURCETYPEPATH	60	2

Table 917. Cross Reference for GTZZQRY (continued)

Name	Offset	Hex Tag
GTZQUAASPERSISTSMF	9	40
GTZQUAASSYSTEMNAME	58	
GTZQUAASTATUS	0	
GTZQUAASTATUS_LEN	70	100
GTZQUAASTRACKDATAENTRIESAVAILABLE	10	
GTZQUAASTRACKDATAENTRIESENCOUNTERED	30	
GTZQUAASTRACKENABLED	8	80
GTZQUAATCOUNT	20	
GTZQUAATEVENTASID	8C	
GTZQUAATEVENTDATA	58	
GTZQUAATEVENTDATA1	58	
GTZQUAATEVENTDATA2	60	
GTZQUAATEVENTDESCLEN	54	
GTZQUAATEVENTDESCOFFSET	56	
GTZQUAATEVENTJOB	68	
GTZQUAATEYECATCHER	0	
GTZQUAATFIRSTTOD	11	
GTZQUAATFLAGS1	A	
GTZQUAATHOMEASID	8E	
GTZQUAATHOMEJOB	70	
GTZQUAATISAUTHORIZED	A	20
GTZQUAATISCNZTRKR	A	10
GTZQUAATISPROGRAMPATH	A	40
GTZQUAATISSOURCEPATH	A	80
GTZQUAATOFFSETNEXT	8	
GTZQUAATOWNER	38	
GTZQUAATPROGRAM	78	
GTZQUAATPROGRAMOFFSET	80	
GTZQUAATPROGRAMPATHLEN	88	
GTZQUAATPROGRAMPATHOFFSET	8A	
GTZQUAATRACKDATA	0	
GTZQUAATRACKDATA_LEN	90	B0
GTZQUAATSOURCE	48	
GTZQUAATSOURCEPATHLEN	50	
GTZQUAATSOURCEPATHOFFSET	52	
GTZQUERYRC_COMPERROR	90	10
GTZQUERYRC_ERROR	90	8
GTZQUERYRC_OK	90	0
GTZQUERYRC_OUTOFMEMORY	90	D
GTZQUERYRC_SEVEREERROR	90	C
GTZQUERYRSN_BADANSAREA	90	888
GTZQUERYRSN_BADANSAREAADDRALIGN	90	886
GTZQUERYRSN_BADANSAREAADDRNULL	90	885
GTZQUERYRSN_BADANSAREAALET	90	884
GTZQUERYRSN_BADANSLEN	90	887
GTZQUERYRSN_BADENVFRR	90	88D
GTZQUERYRSN_BADENVLOCKED	90	88B
GTZQUERYRSN_BADENVNOTENABLED	90	88A
GTZQUERYRSN_BADENVNOTINGTZ	90	88E

Table 917. Cross Reference for GTZZQRY (continued)

Name	Offset	Hex Tag
GTZQUERYRSN_BADENVSRBMODE	90	88C
GTZQUERYRSN_BADEVENTDESC	90	897
GTZQUERYRSN_BADEVENTDESCALET	90	896
GTZQUERYRSN_BADEVENTDESCCHARSET	90	89C
GTZQUERYRSN_BADEVENTDESCLEN	90	89D
GTZQUERYRSN_BADEVENTJOBCHARSET	90	8A3
GTZQUERYRSN_BADEVENTJOBLEN	90	8A7
GTZQUERYRSN_BADHOMEJOBCHARSET	90	8A2
GTZQUERYRSN_BADHOMEJOBLEN	90	8A6
GTZQUERYRSN_BADOWNERCHARSET	90	891
GTZQUERYRSN_BADOWNERLEN	90	8A8
GTZQUERYRSN_BADPARMLIST	90	882
GTZQUERYRSN_BADPARMLISTALET	90	881
GTZQUERYRSN_BADPARMLISTVERSION	90	883
GTZQUERYRSN_BADPROGRAMCHARSET	90	898
GTZQUERYRSN_BADPROGRAMLEN	90	8A5
GTZQUERYRSN_BADPROGRAMPATH	90	895
GTZQUERYRSN_BADPROGRAMPATHALET	90	894
GTZQUERYRSN_BADPROGRAMPATHCHARSET	90	899
GTZQUERYRSN_BADPROGRAMPATHLEN	90	89F
GTZQUERYRSN_BADPROGRAMTYPE	90	8A0
GTZQUERYRSN_BADREQUEST	90	880
GTZQUERYRSN_BADSECCHECKVALUE	90	889
GTZQUERYRSN_BADSOURCECHARSET	90	89A
GTZQUERYRSN_BADSOURCELEN	90	8A4
GTZQUERYRSN_BADSOURCEPATH	90	893
GTZQUERYRSN_BADSOURCEPATHALET	90	892
GTZQUERYRSN_BADSOURCEPATHCHARSET	90	89B
GTZQUERYRSN_BADSOURCEPATHLEN	90	89E
GTZQUERYRSN_BADSOURCETYPE	90	8A1
GTZQUERYRSN_FACILITYNOTAVAILABLE	90	C90
GTZQUERYRSN_NOTAUTHORIZED	90	88F
GTZQUERYRSNCODEMASK	90	FFFF

Chapter 225. GTZZSMFU Information

GTZZSMFU Programming Interface Information

GTZZSMFU is a programming interface.

GTZZSMFU Heading Information

Common Name:	GTZSMFU2 and GTZSMFU3 error codes and constants
Macro ID:	GTZZSMFU
DSECT Name:	None
Owning Component:	IBM Generic Tracker (SCGTZ)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: N/A Key: N/A Residency: Caller-supplied
Size:	N/A
Created by:	N/A
Pointed to by:	N/A
Serialization:	None required
Function:	Provide equates for return and reason codes and other constants related to utilities GTZSMFU2 and GTZSMFU3 the GTZ USER2 and USER3 exit routines for SMF dump programs IFASMFDP and IFASMFDL.

GTZZSMFU mapping

Table 918. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

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Table 918. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
GTZZSMFU_1:; START OF SPECIFICATIONS 01 PROPRIETARY STATEMENT= LICENSED MATERIALS - PROPERTY OF IBM 5650-ZOS COPYRIGHT IBM CORP. 2015 STATUS= HBB77A0 END_OF_PROPRIETARY_STATEMENT 01 DESCRIPTIVE NAME: GTZSMFU2 and GTZSMFU3 error codes and constants 01 MACRO NAME: GTZZSMFU 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: 01 DSECT NAME: None 01 COMPONENT: IBM Generic Tracker (SCGTZ) 01 EYE-CATCHER: NONE 01 STORAGE ATTRIBUTES: 02 SUBPOOL: N/A 02 KEY: N/A 02 RESIDENCY: Caller-supplied 01 SIZE: N/A 01 CREATED BY: N/A 01 POINTED TO BY: N/A 01 SERIALIZATION: None required 01 FUNCTION: 02 Provide equates for return and reason codes and other constants related to utilities GTZSMFU2 and GTZSMFU3 the GTZ USER2 and USER3 exit routines for SMF dump programs IFASMFDP and IFASMFDL. 01 METHOD OF ACCESS: 02 ASM: GTZZSMFU 02 PL/X: %INCLUDE SYSLIB(GTZZSMFU) 01 DELETED BY: N/A 01 FREQUENCY: N/A 01 DEPENDENCIES: None. 01 DISTRIBUTION LIBRARY: AMACLIB 01 CHANGE ACTIVITY: $L0=GTZSMF ,HBB77A0,140804,RD00UT: Initial create Maintain also in GTZSMFU2/3::GTZSMFU2/3_RECORDERROR END OF SPECIFICATIONS GtzSmfU2 return codes Return code format: 0000rrxy, with rr= return code, xy= (actual) reason code, x=4					
	....			GTZSMFU2RC_OK	"X'00000000'" Meaning: Successful request. Action: None required
RC=8 (x08)					
0	(0)	BITSTRING	0	GTZSMFU2RC_NOTPDSMBRGTZPRINT	"X'00000842'" Decimal: 2114 Meaning: Not a PDS member. Action: For a PDS GTZPRINT specify a valid member.

Table 918. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	GTZSMFU2RC_NOTPDSMBRGTZOUT	"X'00000843'" Decimal: 2115 Meaning: Not a PDS member. Action: For a PDS GTZOUT specify a valid member.
0	(0)	BITSTRING	0	GTZSMFU2RC_NOTALLOCGTZPRINT	"X'00000844'" Decimal: 2116 Meaning: Not allocated. Action: Specify a valid GTZPRINT DD.
0	(0)	BITSTRING	0	GTZSMFU2RC_NOTALLOCGTZOUT	"X'00000845'" Decimal: 2117 Meaning: Not allocated. Action: Specify a valid GTZOUT DD.
0	(0)	BITSTRING	0	GTZSMFU2RC_BADLRECLGTZOUT	"X'00000846'" Decimal: 2118 Meaning: Not an accepted LRECL for GTZOUT. Action: Specify a GTZOUT DD with LRECL=80.
0	(0)	BITSTRING	0	GTZSMFU2RC_BADLRECLGTZPRINT	"X'00000847'" Decimal: 2119 Meaning: Not an accepted LRECL for GTZPRINT. Action: Specify a GTZRPINT DD with LRECL=80.
RC=12 (x0C)					
0	(0)	BITSTRING	0	GTZSMFU2RC_OPENFAILEDGTZOUT	"X'00000C40'" Decimal: 3136 Meaning: Open failed. Action: Unknown error when opening the GTZOUT dataset. Ensure that the GTZOUT DD specifies a valid dataset.
0	(0)	BITSTRING	0	GTZSMFU2RC_OPENFAILEDGTZPRINT	"X'00000C41'" Decimal: 3137 Meaning: Open failed. Action: Unknown error when opening the GTZPRINT dataset. Ensure that the GTZPRINT DD specifies a valid dataset.
0	(0)	BITSTRING	0	GTZSMFU2RC_WRITENOSPACE	"X'00000C43'" Decimal: 3139 Meaning: Write (PUT) ran out of space. Action: Ensure GTZOUT and GTZPRINT have enough room for the output data.
0	(0)	BITSTRING	0	GTZSMFU3RC_WRITENOSPACE	"X'00000C44'" Decimal: 3140 Meaning: Write (PUT) ran out of space. Action: Ensure GTZOUT and GTZPRINT have enough room for the output data.
0	(0)	BITSTRING	0	GTZSMFU2RC_NULLSMFRECORD	"X'00000C80'" Decimal: 3200 Meaning: Invalid GTZSMFU2 input parameter Action: Ensure GTZSMFU2 is only used as USER2 exit program for the SMF dump program IFASMFDP or IFASMFDL.
0	(0)	BITSTRING	0	GTZSMFU2RC_NULLSMFWORKPARMS	

Table 918. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000C81'" Decimal: 3201 Meaning: Invalid GTZSMFU2 input parameter Action: Ensure GTZSMFU2 is only used as USER2 exit program for the SMF dump program IFASMFDP or IFASMFDL.
0	(0)	BITSTRING	0	GTZSMFU2RC_NULLPARMLIST	"X'00000C82'" Decimal: 3202 Meaning: Invalid GTZSMFU2 input parameter Action: Ensure GTZSMFU2 is only used as USER2 exit program for the SMF dump program IFASMFDP or IFASMFDL.
0	(0)	BITSTRING	0	GTZSMFU2RC_BADSHAREDWRITEROUT	
					"X'00000C83'" Decimal: 3203 Meaning: Invalid GTZSMFU2 input parameter Action: Ensure GTZSMFU2 is only used as USER2 exit program for the SMF dump program IFASMFDP or IFASMFDL.
0	(0)	BITSTRING	0	GTZSMFU2RC_BADSHAREDWRITERPRINT	
					"X'00000C84'" Decimal: 3204 Meaning: Invalid GTZSMFU2 input parameter Action: Ensure GTZSMFU2 is only used as USER2 exit program for the SMF dump program IFASMFDP or IFASMFDL.
0	(0)	BITSTRING	0	GTZSMFU2RC_BADSHAREDAREA	"X'00000C85'" Decimal: 3205 Meaning: Invalid GTZSMFU2 input parameter Action: Ensure GTZSMFU2 is only used as USER2 exit program for the SMF dump program IFASMFDP or IFASMFDL.
0	(0)	BITSTRING	0	GTZSMFU3RC_NULLSMFWORKPARMS	
					"X'00000C86'" Decimal: 3206 Meaning: Invalid GTZSMFU3 input parameter Action: Ensure GTZSMFU3 is only used as USER3 exit program for the SMF dump program IFASMFDP or IFASMFDL together with GTZSMFU2 as USER2 exit program.
0	(0)	BITSTRING	0	GTZSMFU3RC_NULLPARMLIST	"X'00000C87'" Decimal: 3207 Meaning: Invalid GTZSMFU3 input parameter Action: Ensure GTZSMFU3 is only used as USER3 exit program for the SMF dump program IFASMFDP or IFASMFDL together with GTZSMFU2 as USER2 exit program.
0	(0)	BITSTRING	0	GTZSMFU3RC_BADSHAREDWRITEROUT	

Table 918. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000C88'" Decimal: 3208 Meaning: Invalid GTZSMFU3 input parameter Action: Ensure GTZSMFU3 is only used as USER3 exit program for the SMF dump program IFASMFDP or IFASMFDL together with GTZSMFU2 as USER2 exit program.
0	(0)	BITSTRING	0	GTZSMFU3RC_BADSHAREDWRITERPRINT	
					"X'00000C89'" Decimal: 3209 Meaning: Invalid GTZSMFU3 input parameter Action: Ensure GTZSMFU3 is only used as USER3 exit program for the SMF dump program IFASMFDP or IFASMFDL together with GTZSMFU2 as USER2 exit program.
0	(0)	BITSTRING	0	GTZSMFU3RC_BADSHAREDAREA	"X'00000C8A'" Decimal: 3210 Meaning: Invalid GTZSMFU3 input parameter Action: Ensure GTZSMFU3 is only used as USER3 exit program for the SMF dump program IFASMFDP or IFASMFDL together with GTZSMFU2 as USER2 exit program.
0	(0)	BITSTRING	0	GTZSMFU3RC_NULLGTZWORKAREA	"X'00000C8B'" Decimal: 3211 Meaning: Invalid GTZSMFU3 input parameter Action: Ensure GTZSMFU3 is only used as USER3 exit program for the SMF dump program IFASMFDP or IFASMFDL together with GTZSMFU2 as USER2 exit program.

Table 919. Cross Reference for GTZZSMFU

Name	Offset	Hex Tag
GTZSMFU2RC_BADLRECLGTZOUT	0	846
GTZSMFU2RC_BADLRECLGTZPRINT	0	847
GTZSMFU2RC_BADSHAREDAREA	0	C85
GTZSMFU2RC_BADSHAREDWRITEROUT	0	C83
GTZSMFU2RC_BADSHAREDWRITERPRINT	0	C84
GTZSMFU2RC_NOTALLOCGTZOUT	0	845
GTZSMFU2RC_NOTALLOCGTZPRINT	0	844
GTZSMFU2RC_NOTPDSMBRGTZOUT	0	843
GTZSMFU2RC_NOTPDSMBRGTZPRINT	0	842
GTZSMFU2RC_NULLPARMLIST	0	C82
GTZSMFU2RC_NULLSMFRECORD	0	C80
GTZSMFU2RC_NULLSMFWORKPARMS	0	C81
GTZSMFU2RC_OK	0	0
GTZSMFU2RC_OPENFAILEDGTZOUT	0	C40
GTZSMFU2RC_OPENFAILEDGTZPRINT	0	C41
GTZSMFU2RC_WRITENOSPACE	0	C43

Table 919. Cross Reference for GTZZSMFU (continued)

Name	Offset	Hex Tag
GTZSMFU3RC_BADSHAREDAREA	0	C8A
GTZSMFU3RC_BADSHAREDWRITEROUT	0	C88
GTZSMFU3RC_BADSHAREDWRITERPRINT	0	C89
GTZSMFU3RC_NULLGTZWORKAREA	0	C8B
GTZSMFU3RC_NULLPARMLIST	0	C87
GTZSMFU3RC_NULLSMFWORKPARMS	0	C86
GTZSMFU3RC_WRITENOSPACE	0	C44

Chapter 226. GTZZTRK Information

GTZZTRK Programming Interface Information

GTZZTRK is a programming interface.

GTZZTRK Heading Information

Common Name:	GTZTRACK constants
Macro ID:	GTZZTRK
DSECT Name:	None
Owning Component:	IBM Generic Tracker (SCGTZ)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: N/A Key: N/A Residency: Caller-supplied
Size:	N/A
Created by:	N/A
Pointed to by:	N/A
Serialization:	None required
Function:	Provide equates for return and reason codes and other constants related to service GTZTRACK

GTZZTRK mapping

Table 920. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

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Table 920. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
GTZZTRK_1:; START OF SPECIFICATIONS 01 PROPRIETARY STATEMENT= LICENSED MATERIALS - PROPERTY OF IBM 5650-ZOS COPYRIGHT IBM CORP. 2013 STATUS= HBB7790 END_OF_PROPRIETARY_STATEMENT 01 DESCRIPTIVE NAME: GTZTRACK constants 01 MACRO NAME: GTZZTRK 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: 01 DSECT NAME: None 01 COMPONENT: IBM Generic Tracker (SCGTZ) 01 EYE-CATCHER: NONE 01 STORAGE ATTRIBUTES: 02 SUBPOOL: N/A 02 KEY: N/A 02 RESIDENCY: Caller-supplied 01 SIZE: N/A 01 CREATED BY: N/A 01 POINTED TO BY: N/A 01 SERIALIZATION: None required 01 FUNCTION: 02 Provide equates for return and reason codes and other constants related to service GTZTRACK 01 METHOD OF ACCESS: 02 ASM: GTZZTRK 02 PL/X: %INCLUDE SYSLIB(GTZZTRK) 01 DELETED BY: N/A 01 FREQUENCY: N/A 01 DEPENDENCIES: GTZTRACK.amg, as source for RC/RSN via AMGRET 01 DISTRIBUTION LIBRARY: AMACLIB 01 CHANGE ACTIVITY: $L0=GENTRKR ,HBB7790,110615,RD00UT: Initial create $L1=GENTRKR ,HBB7790,110803,RD00UT: Limits $L2=GENTRKR ,HBB7790,110909,RD00UT: Generic "DoNotTrack" END OF SPECIFICATIONS Limits					
0	(0) X'40'		0	CGTZTRACK_MAXEVENTDESCLEN	"64"
0	(0) X'400'		0	CGTZTRACK_MAXPATHNAMELEN	"1024"
GTZTRACK return and reason codes Reason code format: ddddrrxy, with rr= return code, x=0..2,y=0..F and dddd = component diagnostic data, which must not be assumed to be 0. Apply GtzTrackRsnCodeMask to an actual reason code value to derive a value listed below.					
0	(0) BITSTRING		0	GTZTRACKRSNCODEMASK	"X'0000FFFF'" Use this mask to isolate the non component-diagnostic portion of the reason code or abend reason code
AMGRET - START (RC 0-16, RSNs for RC=4,8,12)					

Table 920. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		....		GTZTRACKRC_OK	"X'00000000'" Meaning: Successful request. Action: None required
		.... .1..		GTZTRACKRC_WARN	"X'00000004'" Meaning: Warning. Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	GTZTRACKRSN_NOTREADY	"X'00000401'" Meaning: The tracking facility is not ready. It is down or it is still starting and initialization is not complete yet or it is in flood control mode. Track data has not been recorded. Action: This might be a temporary condition. If it persists, report it to the system programmer. See also the description of message GTZ1000I and GTZ0004E for further information.
		.... 1...		GTZTRACKRC_ERROR	"X'00000008'" Meaning: Error Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADGTZATRKP	"X'00000801'" Meaning: Invalid GTZATRKP value. Action: Ensure that only macro GTZTRACK is used to built the parameter list for the GTZTRACK service.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADPARMLIST	"X'00000803'" Meaning: Error accessing the GTZTRACK parameter list. Action: Make sure that the provided parameter list is valid.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADSOURCEPATH	"X'00000804'" Meaning: Error accessing the SOURCEPATH parameter. Action: Make sure that the provided parameter is valid.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADEVENTDESC	"X'00000805'" Meaning: Error accessing the EVENTDESC parameter. Action: Make sure that the provided parameter is valid.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADENVNOTENABLED	"X'00000806'" Meaning: Not Enabled. Action: Avoid using GTZTRACK when not enabled for I/O and external interrupts
0	(0)	BITSTRING	0	GTZTRACKRSN_BADENVLOCKED	"X'00000807'" Meaning: Lock is held. Action: Avoid using GTZTRACK when a lock is held.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADENVSRBMODE	"X'00000808'" Meaning: SRB mode. Action: Avoid using GTZTRACK when in SRB mode.

Table 920. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	GTZTRACKRSN_BADENVFRR	"X'00000809'" Meaning: The caller had an EUT FRR established. Action: Avoid using GTZTRACK when an EUT FRR is established.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADPARMLISTVERSION	"X'0000080A'" Meaning: The specified version of the macro is not compatible with the current version of IBM Generic Tracker for z/OS. Action: Avoid requesting parameters that are not supported by this version of IBM Generic Tracker for z/OS.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADEVENTADDRZERO	"X'0000080B'" Meaning: EVENTADDR is zero. Action: Do not specify zero as value for the EVENTADDR. The Console Tracking facility and its service CNZTRKR used to allow for a Violator address of zero, but Generic Tracker by default does not.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADSOURCEPATHLEN	"X'0000080C'" Meaning: SOURCEPATHLEN is invalid. Action: SOURCEPATHLEN has to be between 1 and 1024.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADSOURCEPATHALET	"X'0000080D'" Meaning: Bad SOURCEPATH ALET. Action: Make sure that the ALET associated with the SOURCEPATH parameter is valid. The access register might not have been set up correctly.
0	(0)	BITSTRING	0	GTZTRACKRSN_NOTAUTHORIZED_EVENTASID	"X'0000080E'" Meaning: Not authorized to specify this EVENTASID value. Action: Only EVENTASID(HOME) can be used when not running authorized.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADEVENTASIDKEY	"X'0000080F'" Meaning: Bad EVENTASID value. Action: Specify one of HOME, PRIMARY, SECONDARY, or VALUE.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADEVENTDESCLEN	"X'00000810'" Meaning: EVENTDESCLEN is invalid. Action: EVENTDESCLEN has to be between 1 and 64.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADEVENTDESCALET	

Table 920. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000811'" Meaning: Bad EVENTDESC ALET. Action: Make sure that the ALET associated with the EVENTDESC parameter is valid. The access register might not have been set up correctly.
0	(0)	BITSTRING	0	GTZTRACKRSN_NOTAUTHORIZED_CNZTRKR	
					"X'00000812'" Meaning: Not authorized to specify parameter CNZTRKR. Action: Do not use parameter CNZTRKR and ensure that only macro GTZTRACK is used to built the parameter list for the GTZTRACK service.
0	(0)	BITSTRING	0	GTZTRACKRSN_NOTAUTHORIZED_EVENTADDR0	
					"X'00000813'" Meaning: Not authorized to specify parameter EVENTADDR0. Action: Do not use parameter EVENTADDR0 and ensure that only macro GTZTRACK is used to built the parameter list for the GTZTRACK service.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADPARMLISTALET	
					"X'00000814'" Meaning: Bad parameter list ALET. Action: Make sure that the ALET associated with the parameter list is valid. The access register might not have been set up correctly.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADEVENTASIDSLOT	
					"X'00000815'" Meaning: Bad EVENTASID value. Action: Specify one of HOME, PRIMARY, SECONDARY for EVENTASID, or specify VALUE with a valid EVENTASIDVAL.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADEVENTASID	"X'00000816'" Meaning: Bad EVENTASID value. Action: Specify one of HOME, PRIMARY, SECONDARY, or VALUE, with a valid EVENTASIDVAL.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADENVNOTINGTZ	"X'00000818'" Meaning: The processing module for GTZTRACK has been invoked outside of the GTZ address space. Action: Use the provided GTZTRACK macro to call the processing module.
0	(0)	BITSTRING	0	GTZTRACKRSN_NOTAUTHORIZED_CALLER	
					"X'00000819'" Meaning: A processing module for GTZTRACK has been invoked in the wrong state. Action: Use the provided GTZTRACK macro to call the processing module.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADPROGRAMPATHALET	

Table 920. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'0000081A'" Meaning: Bad PROGRAMPATHALET. Action: Make sure that the ALET associated with the PROGRAMPATH parameter is valid. The access register might not have been set up correctly.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADPROGRAMPATHLEN	
					"X'0000081B'" Meaning: PROGRAMPATHLEN is invalid. Action: PROGRAMPATHLEN has to be between 1 and 1024.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADNOABEND	"X'0000081C'" Meaning: NOABEND or NOABENDVAL is invalid. Action: NOABEND has to be YES or NO. NOABENDVAL has to be 1 or 0.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADOWNERVALUE	"X'0000081D'" Meaning: Bad OWNER text value. Action: Ensure that the OWNER value contains only the documented allowed characters.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADEVENTDESCVALUE	
					"X'0000081E'" Meaning: Bad EVENTDESC text value. Action: Ensure that the EVENTDESC value does not contain only blanks or only binary zeroes.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADSOURCEVALUE	"X'0000081F'" Meaning: Bad SOURCE text value. Action: Ensure that the SOURCE value contains only the documented allowed characters.
0	(0)	BITSTRING	0	GTZTRACKRSN_BADSOURCEPATHVALUE	
					"X'00000820'" Meaning: Bad SOURCEPATH text value. Action: Ensure that the SOURCEPATH value does not contain only blanks or only binary zeroes.
		.... 11..		GTZTRACKRC_SEVEREERROR	"X'0000000C'" Meaning: Severe Error. Action: Refer to action under the individual reason code.
		.... 11.1		GTZTRACKRC_OUTOFMEMORY	"X'0000000D'" Meaning: Tracking facility is low on memory. Action: See the description of message GTZ0004E.
		...1		GTZTRACKRC_COMPERROR	"X'00000010'" Meaning: Component error. Action: Report the associated reason code to the system programmer to contact IBM Service.
AMGRET - END (RC 0-16, RSNs for RC=4,8,12) Reason codes for RC=16					
0	(0)	X'1003'	0	GTZTRACKRSN_INTERNALERROR_BADPC	

Table 920. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"4099" Meaning: Component error. Action: Report the problem to the system programmer.
0	(0)	X'1004'	0	GTZTRACKRSN_INTERNALERROR_BADUSERERR	
					"4100" Meaning: Component error. Action: Report the problem to the system programmer.
0	(0)	X'1005'	0	GTZTRACKRSN_INTERNALERROR	"4101" Meaning: Component error. Action: Report the problem to the system programmer.
0	(0)	X'1006'	0	GTZTRACKRSN_INTERNALERROR_REPEATABEND	
					"4102" Meaning: Component error. Action: Report the problem to the system programmer.

Table 921. Cross Reference for GTZZTRK

Name	Offset	Hex Tag
CGTZTRACK_MAXEVENTDESCLEN	0	40
CGTZTRACK_MAXPATHNAMELEN	0	400
GTZTRACKRC_COMPERROR	0	10
GTZTRACKRC_ERROR	0	8
GTZTRACKRC_OK	0	0
GTZTRACKRC_OUTOFMEMORY	0	D
GTZTRACKRC_SEVEREERROR	0	C
GTZTRACKRC_WARN	0	4
GTZTRACKRSN_BADENVFRR	0	809
GTZTRACKRSN_BADENVLOCKED	0	807
GTZTRACKRSN_BADENVNOTENABLED	0	806
GTZTRACKRSN_BADENVNOTINGTZ	0	818
GTZTRACKRSN_BADENVSRBMODE	0	808
GTZTRACKRSN_BADEVENTADDRZERO	0	80B
GTZTRACKRSN_BADEVENTASID	0	816
GTZTRACKRSN_BADEVENTASIDKEY	0	80F
GTZTRACKRSN_BADEVENTASIDSLOT	0	815
GTZTRACKRSN_BADEVENTDESC	0	805
GTZTRACKRSN_BADEVENTDESCALET	0	811
GTZTRACKRSN_BADEVENTDESCLEN	0	810
GTZTRACKRSN_BADEVENTDESCVALUE	0	81E
GTZTRACKRSN_BADGTZATRKP	0	801
GTZTRACKRSN_BADNOABEND	0	81C
GTZTRACKRSN_BADOWNERVALUE	0	81D
GTZTRACKRSN_BADPARMLIST	0	803
GTZTRACKRSN_BADPARMLISTALET	0	814
GTZTRACKRSN_BADPARMLISTVERSION	0	80A
GTZTRACKRSN_BADPROGRAMPATHALET	0	81A
GTZTRACKRSN_BADPROGRAMPATHLEN	0	81B
GTZTRACKRSN_BADSOURCEPATH	0	804
GTZTRACKRSN_BADSOURCEPATHALET	0	80D
GTZTRACKRSN_BADSOURCEPATHLEN	0	80C

Table 921. Cross Reference for GTZZTRK (continued)

Name	Offset	Hex Tag
GTZTRACKRSN_BADSOURCEPATHVALUE	0	820
GTZTRACKRSN_BADSOURCEVALUE	0	81F
GTZTRACKRSN_INTERNALERROR	0	1005
GTZTRACKRSN_INTERNALERROR_BADPC	0	1003
GTZTRACKRSN_INTERNALERROR_BADUSERERR	0	1004
GTZTRACKRSN_INTERNALERROR_REPEATABEND	0	1006
GTZTRACKRSN_NOTAUTHORIZED_CALLER	0	819
GTZTRACKRSN_NOTAUTHORIZED_CNZTRKR	0	812
GTZTRACKRSN_NOTAUTHORIZED_EVENTADDR0	0	813
GTZTRACKRSN_NOTAUTHORIZED_EVENTASID	0	80E
GTZTRACKRSN_NOTREADY	0	401
GTZTRACKRSNCODEMASK	0	FFFF

Chapter 227. GVT Information

GVT Programming Interface Information

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

- GVT_CLEARCACHE@
- GVTCSGRSConstrained
- GVTFUNCS
- GVTRCRNL
- GVTRNLEA
- GVTSERNL
- GVTSIRNL

GVT Heading Information

Common Name:	GLOBAL RESOURCE SERIALIZATION (GRS) VECTOR TABLE
Macro ID:	ISGGVT
DSECT Name:	GVT
Owning Component:	Global Resource Serialization (SCSDS)
Eye-Catcher ID:	GVT Offset: 0 Length: 4
Storage Attributes:	Subpool: Nucleus Key: 0 Residency: Below 16M line
Size:	760 bytes
Created by:	THE GVT IS CONTAINED IN THE NUCLEUS RESIDENT MODULE ISGGRS00. THE GVT IS AUTOMATICALLY CREATED WHEN THE NUCLEUS IS LOADED BY IEAIPL.
Pointed to by:	THE GVT IS POINTED TO BY THE CVT FIELD CVTGVT.
Serialization:	Based on the individual fields being referenced.
Function:	THE GVT PROVIDES A MEANS OF COMMUNICATION WITHIN GRS. THE GVT CONTAINS ALL GLOBAL QUEUES, POINTERS, AND ENTRY POINT ADDRESSES. THE GVT IS DIVIDED INTO SECTIONS RELATING TO THE DIFFERENT FUNCTIONAL AREAS OF GRS: GRS INITIALIZATION, ENQ/DEQ MAINLINE, GRS RING PROCESSOR, GRS CTC DRIVER, AND GRS COMMAND PROCESSOR. THE FUNCTIONAL SECTIONS ARE FOLLOWED BY ASSIGNED PC NUMBERS AND ENTRY POINT ADDRESSES USED BY GRS MODULES.

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GVT mapping

Table 922. Structure GVT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	760	GVT	GRS VECTOR TABLE
0	(0)	CHARACTER	4	GVTID	CONTROL BLOCK ACRONYM (GVT)
		THE FOLLOWING SECTION OF THE GVT IS USED BY ALL AREAS OF GRS.			
4	(4)	CHARACTER	36	GVTGSECT	GLOBAL SECTION
4	(4)	BITSTRING	1	GVTGSFLG	GRS GENERAL STATUS FLAGS
		1...		GVTGRSAS	GRS ADDRESS SPACE FLAG - 0 = GRS ADDRESS SPACE NOT INITIALIZED (PC/PT SHOULD NOT BE ISSUED), 1 = GRS ADDRESS SPACE HAS BEEN INITIALIZED (PC/PT CAN BE ISSUED)
		.1..		GVTGRSNA	GLOBAL RESOURCE SERIALIZATION NOT ACTIVE FLAG - WHEN 1, GLOBAL RESOURCE SERIALIZATION IS NOT ACTIVE i.e. GRS=NONE
		..1.		GVTGRSPC	GRS OPTION PROCESSING COMPLETE FLAG - WHEN 1, PROCESSING OF THE GRS= OPTION HAS BEEN DONE AND INITIALIZATION IS COMPLETE.
		...1		GVTPRGOK	PURGE PROCESSING OKAY FLAG - WHEN 1, PURGING OF LOCAL/GLOBAL RESOURCES PERFORMED BY THE GRS TERMINATION RESOURCE MANAGER IS ALLOWED
		.... 1...		GVTNCMDR	NO COMMAND ROUTER FLAG - WHEN 1, THE GRS COMMAND ROUTER (ISGCMDR) IS NOT ACTIVE
		.... .1..		*	Unused
		.... ..1.		GVTMSICP	MASTER SCHEDULER INIT HAS COMPLETED AND ISGNWMSI HAS DONE ANY RELATED WORK
		1		*	Reserved. Field GVTARQA is obsolete.
5	(5)	BITSTRING	1	GVTQSFLG	GRS QUEUE STATUS FLAGS
		1...		GVTGQDMG	GLOBAL QUEUE DAMAGE FLAG - WHEN 1, THE GLOBAL RESOURCE QUEUES HAVE BEEN DAMAGED
		.1..		GVTLQDMG	LOCAL QUEUE DAMAGE FLAG - WHEN 1, THE LOCAL RESOURCE QUEUES HAVE BEEN DAMAGED
		..1.		GVTQMRGA	QUEUE MERGE ACTIVE FLAG - WHEN 1, ISGCQMRG IS IN THE PROCESS OF UPDATING THE GLOBAL QUEUES

Table 922. Structure GVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		GVTSTEPQUEUEDAMAGE	Step queue damage flag - When 1, the step resource queues have been damaged. Note that this bit is never reset even though it is possible that the address space associated with the step queue damage memterms and the ASID is recycled for use by another address space (so there no longer step hash table damage corresponding to that reused address space
		 1111		*	RESERVED
6	(6)	BITSTRING	1	GVTGRSOP	GRS OPTION FLAGS
		1...		GVTSTART	START FLAG - WHEN 1, GRS OPTION IS START
		.1..		GVTJOIN	JOIN FLAG - WHEN 1, GRS OPTION IS JOIN
		..1.		GVTNONE	NONE FLAG - WHEN 1, GRS OPTION IS NONE
		...1		GVTTRYJN	TRYJOIN FLAG - WHEN 1, GRS OPTION IS TRYJOIN
		.... 1...		GVTSTAR	STAR FLAG - WHEN 1, GRS OPTION IS STAR
		.... .111		*	RESERVED
7	(7)	BITSTRING	1	GVTVFLAG	GRS VALIDATION FLAGS
		1...		GVTRNLVC	RNL VALIDATION COMPLETE FLAG WHEN 1, VALIDATION COMPLETE FOR ALL RESOURCE NAME LISTS
		.1..		GVTVERNL	INVALID SYSTEMS EXCLUSION RNL FLAG - WHEN 1, ERROR EXISTS IN THE SYSTEMS EXCLUSION RESOURCE NAME LIST
		..1.		GVTVIRNL	INVALID SYSTEMS INCLUSION RNL FLAG - WHEN 1, ERROR EXISTS IN THE SYSTEMS INCLUSION RESOURCE NAME LIST
		...1		GVTVCRNL	INVALID RESERVE CONVERSION RNL FLAG - WHEN 1, ERROR EXISTS IN THE RESERVE CONVERSION RESOURCE NAME LIST
		.... 1...		GVTRNLEA	RNL EXCLUDE ALL FLAG - WHEN 1 GRSRNL=EXCLUDE IS IN EFFECT
		.... .111		*	RESERVED
8	(8)	BITSTRING	1	GVTGRSRP	GRS RING PROCESSING FLAGS
		1...		GVTNCOMM	NO COMMUNICATION FLAG - WHEN 1, CTC DRIVER AND RING PROCESSING ARE INOPERATIVE
		.1..		GVTMAINR	MAINRING FLAG - WHEN 1, THIS SYSTEM IS A MEMBER OF THE MAINRING

Table 922. Structure GVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		GVTINACT	INACTIVE SYSTEM FLAG - WHEN 1 RING PROCESSING DISCOVERED A MAINRING FAILURE BUT THIS SYSTEM HAS NOT YET RESET ITS MAINRING RESOURCES
		...1		*	UNUSED
		.... 1...		GVTAURST	AUTO RESTART FLAG - WHEN 1, THIS SYSTEM HAS THE ABILITY TO AUTOMATICALLY REBUILD A DISRUPTED GRS RING
		.... .1..		GVTJSRBS	CTC DRIVER SRB SCHEDULED FLAG - WHEN 1, THE UNUSUAL EVENT SRB OF CTC DRIVER HAS BEEN SCHEDULED
		.... ..1.		*	RESERVED
		1		GVTAURJN	REJOIN FLAG - WHEN 1, THIS SYSTEM HAS THE ABILITY TO AUTOMATICALLY REJOIN AN ACTIVE GRS RING
9	(9)	BITSTRING	1	GVTPRMLB	GRS PARMLIB PROCESSING STATUS FLAGS
		1...		GVTCNFER	GRSCNFXX PROCESSING STATUS FLAG - WHEN 1,ERROR PROCESSING GRSCNFXX MEMBER OF SYS1.PARMLIB
		.1..		GVTRNLER	GRSRNLXX PROCESSING STATUS FLAG - WHEN 1,ERROR PROCESSING GRSRNLXX MEMBER OF SYS1.PARMLIB
		..1.		*	RESERVED
		...1		GVTNOCTC	GRSCNFXX CTC FLAG - WHEN 1, NO CTC DEFINITIONS WERE SPECIFIED IN THE SYS1.PARMLIB GRSCNF MEMBER
		 1111		*	RESERVED
10	(A)	BITSTRING	1	GVTENFLG	Enablement flags
		1...		GVTENBLHOTCMSG	Enable message ISG376I for hot pool compression. Note that ISG376I may be issued for other reasons regardless of this flag.
11	(B)	CHARACTER	1	*	RESERVED
12	(C)	CHARACTER	4	GVTCMPAT	GRS COMPATIBILITY INDICATOR - ANY VERSION OF GRS HAVING THE SAME VALUE FOR THIS FIELD ARE COMPATIBLE WITH EACH OTHER
16	(10)	ADDRESS	4	GVTGVTX	ADDRESS OF THE GRS VECTOR TABLE EXTENSION
20	(14)	ADDRESS	4	GVTGASCB	ADDRESS OF THE ASCB FOR THE GRS ADDRESS SPACE
24	(18)	ADDRESS	4	GVTGRPRB	ADDRESS OF THE RB UNDER WHICH ISGGRP00 IS EXECUTING
28	(1C)	ADDRESS	4	GVTRSE	ADDRESS OF THE RNL-SEARCH EXTENSION TABLE (RSE)
32	(20)	UNSIGNED	4	GVTCS	Fullword containing flags that are set via Compare and Swap
32	(20)	BITSTRING	1	GVTCSFLG	Compare and swap flags

Table 922. Structure GVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		GVTSYNCH	Synchronous reserve flag. The installation has requested that HW RESERVEs be completed prior to returning to the RESERVE requesters. Individual ISGENQ requests can override this system level option. Note that GVTSYNCHDisabled may be on when this flag is on.
		.1..		GVTSYNCHDISABLED	Synchronous reserve processing was turned off by ISGGRSV due to a failure in IOS. The GVTSYNCH flag should be off when this flag is on.
		..1.		GVTMONITOR	Monitor flag. The installation has requested GRS monitoring via SMF 87 records
		...1 1111		*	Reserved
33	(21)	CHARACTER	1	GVTCSGRSCONSTRAINED	This is a PI field. A non-null value indicates that GRS is constrained and that API services such as ENQ may start to be rejected. Any GRS users that can suppress the use of ENQ, DEQ, GQSCAN, ISGENQ, ISGQUERY, etc. should do so. See the specific bits below for more information. However, as new constraint indicators may appear in the future, only this byte should be checked.
		1...		GVTERQACONSTRAINED	GRS ERQA storage is constrained. Message ISG353E is outstanding while this flag is on and message ISG354I is issued when it is turned off. See their descriptions for more information.
		.1..		GVTGRQACONSTRAINED	GRS GRQA storage is constrained. ISG353E message is outstanding while this flag is on and a message ISG354I is issued when it is turned off. See their descriptions for more information.
		..11 1111		*	Reserved
34	(22)	CHARACTER	2	GVTCSRSV	Reserved
36	(24)	UNSIGNED	4	GVTGALET	PASN-AL Alet for addressing the system GRS address space
		THE FOLLOWING SECTION OF THE GVT IS USED PRIMARILY BY THE INITIALIZATION MODULES OF GRS.			
40	(28)	CHARACTER	20	GVTINITS	GRS INITIALIZATION SECTION
40	(28)	ADDRESS	4	GVTNTCB	ADDRESS OF THE TCB UNDER WHICH ISGNASIM IS EXECUTING

Table 922. Structure GVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
44	(2C)	SIGNED	4	GVTSYSZTIOTMAXDEFER	Maximum number of attempts allowable on an exclusive waiter of Sysztiot to defer to a shared requester.
48	(30)	CHARACTER	4	*	Unused
52	(34)	SIGNED	4	GVTNTLIM	TIME LIMIT IN UNITS OF 0.01 SECONDS FOR FUNCTIONS PERFORMED BY ISGBCI FOR GRS INITIALIZATION MODULES
56	(38)	SIGNED	4	GVTERSVC	EARLY RESERVE COUNT (GLOBAL RESERVES CONVERTED TO LOCAL RESERVES) - ONLY INCREASED WHEN GVTGRSAS IS OFF (SERIALIZED BY CMS ENQ/DEQ LOCK)
Pointer to the Exit Cache					
60	(3C)	ADDRESS	4	GVT_EXITCACHE@	Pointer to the Exit Cache
60	(3C)	BITSTRING	1	GVT_EXITCACHE@BYTE1	
		1...		GVT_CLEARCACHE	When on, indicates that the next access to the cache should clear the cache
		.111 1111		*	
61	(3D)	BITSTRING	2	GVT_EXITCACHE@BYTES2AND3	
63	(3F)	BITSTRING	1	GVT_EXITCACHE@BYTE4	
		1111 111.		*	
		1		GVT_EXITCACHEBAD	when on, cache is bad the cache addr is always on a page bndy, so if it is an odd value, then we know its bad.
THE FOLLOWING SECTION OF THE GVT IS USED PRIMARILY BY THE ENQ/DEQ MODULES OF GRS.					
64	(40)	CHARACTER	80	GVTNQDQS	ENQ/DEQ SECTION
64	(40)	ADDRESS	8	GVTREQQ	GRS request queue consisting of QWBs queued by ISGGNRM or ISGGQWB0 (during task/asid/sysid termination) and dequeued by ISGBSM in RING mode or ISGWRP in STAR mode (Serialized by Compare and Swap logic)
72	(48)	CHARACTER	2	GVTGRSMONXX	Current GRSMONxx Parmlib member - for GRS SMF 87 Monitor function
74	(4A)	CHARACTER	2	*	Unused
76	(4C)	ADDRESS	4	GVTNQMON	ADDRESS OF BUFFER CREATED BY ENQ MONITOR
80	(50)	CHARACTER	16	*	Unused
96	(60)	CHARACTER	12	GVTLISTS	GRS RESOURCE NAME LISTS
96	(60)	ADDRESS	4	GVTSERNL	ADDRESS OF THE SYSTEMS EXCLUSION RESOURCE NAME LIST
100	(64)	ADDRESS	4	GVTSIRNL	ADDRESS OF THE SYSTEMS INCLUSION RESOURCE NAME LIST
104	(68)	ADDRESS	4	GVTRCRNL	ADDRESS OF THE RESERVE CONVERSION RESOURCE NAME LIST
108	(6C)	UNSIGNED	2	GVTGEAX	GRS EAX

Table 922. Structure GVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
110	(6E)	CHARACTER	6	*	Unused
116	(74)	BITSTRING	2	GVTLIVEEXITS	Indicates which exits, if any, exist Write Serialization: CMSEQDQ Lock Read Serialization: None Updated by: ISGNASIM, ISGGCSXT, ISGNWMSI
116	(74)	BITSTRING	1	GVTLIVEEXITS1	
		1...		GVTNXNQ	When set, there is an ISGNQXIT exit routine
		.1..		GVTNXBX	When set, there is an ISGNQXITBATCH exit routine
		..1.		GVTNXQ1X	When set, there is an ISGNQXITQUEUED1 exit routine
		...1		GVTNXFQ	When set, there is an ISGNQXITFAST exit routine
		.... 1...		GVTNXLQD	When set, there is an ISGENDOFLQCB exit routine
		.... .1..		GVTNXPB	When set, there is an ISGNQXITPREBATCH exit routine
		.... ..1.		GVTNXCB	When set, there is an ISGNQXITBATCHCND exit
		1		GVTCSXFAILED	When set, ISGGCSX has failed and recovery has set all Live Exits bits on (including bits in GVTLiveExits2, below)
117	(75)	BITSTRING	1	GVTLIVEEXITS2	
		1...		GVTSYSTEMCNFX	When set, there is an ISGCNFXITSYSTEM exit routine
		.1..		GVTSYSPLEXCNFX	When set, there is an ISGCNFXITSYSPLEX exit routine
		..1.		GVTNXQ2X	When set, there is an ISGNQXITQUEUED2 exit routine
		...1 1111		*	reserved
118	(76)	CHARACTER	10	*	Unused
		The following 8 bytes were previously referenced as GVTCREQ and GVTCREQA, the unauthorized and authorized concurrent ENQ maximums. Since these fields have moved and some installations had zapped these fields, these 8 bytes are being permanently reserved to avoid data corruption.			
128	(80)	CHARACTER	8	*	Permanently reserved. Do not use.
136	(88)	CHARACTER	8	*	Unused
		THE FOLLOWING SECTION OF THE GVT IS USED PRIMARILY BY THE GRS RING PROCESSING MODULES.			
144	(90)	CHARACTER	48	GVTRINGS	GRS RING PROCESSING SECTION
144	(90)	CHARACTER	8	GVTSYSNM	SYSNAME OF CURRENT SYSTEM
152	(98)	CHARACTER	2	*	RESERVED
154	(9A)	UNSIGNED	2	GVTSYSID	SYSID OF CURRENT SYSTEM
156	(9C)	SIGNED	4	*	RESERVED
160	(A0)	CHARACTER	8	GVTMREAT	MAINRING RSA EXPECTED ARRIVAL TIME - EXPECTED ARRIVAL TIME OF THE MAINRING RSA.

Table 922. Structure GVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
160	(A0)	BITSTRING	7	*	
167	(A7)	BITSTRING	1	GVTMREATSTATUS	
		1111 111.		*	
		1		GVTRSAST	RSA STATUS, THE LOW ORDER BIT OF GVTMREAT, IS 1 WHEN THE MAINRING RSA IS AT THIS SYSTEM OR HAS BEEN FOUND TO BE OVERDUE. WHEN 0, THE MAIN RING RSA IS NOT AT THIS SYSTEM
168	(A8)	SIGNED	4	GVTMRSCW	MAINRING SEND COMPLETION WORD - WHEN 0, THE MAINRING RSA HAS BEEN SUCCESSFULLY SENT BY CTC DRIVER
172	(AC)	SIGNED	4	GVTDMSCW	DUMMY SEND COMPLETION WORD - - WHEN 0, MESSAGES OTHER THAN THE MAINRING RSA HAVE BEEN SUCCESSFULLY SENT BY CTC DRIVER
176	(B0)	ADDRESS	4	GVTMRTQE	ADDRESS OF MAINRING RESIDENCE TIMER QUEUE ELEMENT
180	(B4)	ADDRESS	4	*	RESERVED
184	(B8)	ADDRESS	4	GVTRSSRB	Address of the RSA Send SRB (Used to SCHEDULE ISGBSM)
188	(BC)	ADDRESS	4	GVTBDRMI	ADDRESS OF THE MODULE INFORMATION FOR ISGBDR
		The following section of the GVT is reserved for the latch function.			
192	(C0)	CHARACTER	4	GVTLATCH	GRS Latch control words
192	(C0)	UNSIGNED	4	GVTLPBYA	PC Number to ISGLPBYA
196	(C4)	UNSIGNED	4	GVTLCPTOK	CPOOL token of areas that are used for SRB dynamic storage by latch modules.
		THE FOLLOWING SECTION OF THE GVT IS USED BY THE FAST DEQ FUNCTION			
200	(C8)	CHARACTER	8	GVTFDEQF	GRS FAST DEQ FUNCTION
200	(C8)	SIGNED	2	GVTSLTS	NUMBER OF ENTRIES ALLOWED IN THE FAST DEQ TABLE
202	(CA)	CHARACTER	2	GVTRRET	A BR 14 INSTRUCTION. RETURN TO CALLER-SET BY FAST DEQ SRB
204	(CC)	CHARACTER	2	GVTGRET	A BR 14 INSTRUCTION. RETURN TO CALLER-SET BY FAST DEQ GATE
206	(CE)	CHARACTER	2	*	RESERVED
		THE FOLLOWING SECTION OF THE GVT ARE CONSTANTS THAT ARE PRIMARILY USED BY THE GRS RING PROCESSING MODULES.			
208	(D0)	CHARACTER	80	GVTRCNST	GRS RING PROCESSING CONSTANTS
208	(D0)	SIGNED	4	*	RESERVED

Table 922. Structure GVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
212	(D4)	SIGNED	4	GVTOLINT	TOLERANCE TIME INTERVAL - NUMBER OF MILLISECONDS BEYOND THE TIME A RING PROCESSING EVENT IS EXPECTED TO OCCUR BEFORE THAT EVENT IS CONSIDERED OVERDUE (NOTE: THIS TIME INTERVAL IS ADDED TO THE MAINRING CYCLE TIME AS WELL AS TO ALL TIME LIMITS PASSED TO ISGBCI)
216	(D8)	SIGNED	4	GVTASYOH	ADDITIONAL SYSTEM OVERHEAD VALUE - NUMBER OF MILLISECONDS ADDED TO THE MAINRING CYCLE TIME WHENEVER A SYSTEM ENTERS THE MAINRING (NOTE: THIS VALUE IS IN ADDITION TO THE RSA RESIDENCY INTERVAL OF THE ADDED SYSTEM)
220	(DC)	SIGNED	4	GVTICCEP	IMMEDIATE CCW CHANNEL END PAUSE VALUE - NUMBER OF MILLISECONDS ISGBCI WAITS BETWEEN CHECKS FOR A CHANNEL END IN RESPONSE TO AN IMMEDIATE CCW
224	(E0)	SIGNED	4	GVTICCEC	IMMEDIATE CCW CHANNEL END COUNT - NUMBER OF TIMES ISGBCI WILL CHECK FOR A CHANNEL END IN RESPONSE TO AN IMMEDIATE CCW
228	(E4)	SIGNED	4	GVTICRRP	IMMEDIATE CCW REMOTE RESPONSE PAUSE VALUE - NUMBER OF MILLISECONDS ISGBCI WAITS BETWEEN CHECKS FOR RESPONSES FROM REMOTE SYSTEMS TO WHICH AN IMMEDIATE CCW WAS ISSUED
232	(E8)	SIGNED	4	GVTICRRC	IMMEDIATE CCW REMOTE RESPONSE COUNT - NUMBER OF TIMES ISGBCI WILL CHECK FOR RESPONSES FROM ALL REMOTE SYSTEMS TO WHICH AN IMMEDIATE CCW WAS ISSUED
236	(EC)	SIGNED	4	GVTNMRRP	NON-MAINRING RSA RESOURCE PAUSE VALUE - NUMBER OF MILLISECONDS ISGBTCIR WAITS BETWEEN CHECKS FOR THE AVAILABILITY OF RESOURCES REQUIRED TO SEND THE NON-MAINRING RSA (THAT IS, RESOURCES REQUIRED TO SCHEDULE ISGBSRRI)
240	(F0)	SIGNED	4	GVTNMRRC	NON-MAINRING RSA RESOURCE COUNT - NUMBER OF TIMES ISGBTCIR WILL CHECK FOR THE AVAILABILITY OF RESOURCES REQUIRED TO SEND THE NON-MAINRING RSA (THAT IS, RESOURCES REQUIRED TO SCHEDULE ISGBSRRI)
244	(F4)	SIGNED	4	GVTNMRHP	NON-MAINRING RSA HOLD PAUSE VALUE - NUMBER OF MILLISECONDS ISGBCI WAITS BETWEEN REPEATED ATTEMPTS TO SEND A NON-MAINRING RSA TO A REMOTE SYSTEM

Table 922. Structure GVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
248	(F8)	SIGNED	4	GVTNHRPT	NO-HOLD RESPONSE TIME VALUE - NUMBER OF MILLISECONDS THIS SYSTEM ALLOWS A REMOTE SYSTEM TO RECEIVE A NON-MAINRING RSA, PROCESS IT, AND SEND IT BACK WITH ZERO HOLD TIME
252	(FC)	SIGNED	4	GVTHDRPT	HOLD RESPONSE TIME VALUE - NUMBER OF MILLISECONDS THIS SYSTEM ALLOWS A REMOTE SYSTEM TO RECEIVE A NON-MAINRING RSA, PROCESS IT, HOLD IT, AND SEND IT BACK
256	(100)	SIGNED	4	GVTBFTAT	BUFFER TURNAROUND TIME VALUE - NUMBER OF MILLISECONDS ISGBCI ALLOWS A REMOTE SYSTEM TO GIVE BACK THE BUFFER USED TO SEND A NON-MAINRING RSA
260	(104)	SIGNED	2	GVTTHRS	RING ACCELERATION THRESHOLD - NUMBER OF SYSTEMS INCLUDING THE SENDER WHO MUST SEE THE REQUEST BEFORE PROCESSING CAN CONTINUE
262	(106)	BITSTRING	1	GVTTWEAK	
		1...		GVTSP18I	Purge messages suppression flag - when 1, do not build MRBs to issue any ISG018I messages
		.111 1111		*	Reserved
263	(107)	CHARACTER	1	*	Reserved
The following field is used to store the instance of the cell pool residing above the bar which contains the GGRA QHTs. The instance data is a pointer to the control anchor for the cell pool.					
264	(108)	ADDRESS	8	GVTGGRAQHTCP64	Pointer to the cell pool residing above the bar that contains the GGRA QHT cells
272	(110)	CHARACTER	8	GVTDISABLEDFLAGS	Flags to note when certain GRS functionality has been disabled (likely by a ZAP)
272	(110)	BITSTRING	1	GVTDISABLED0	Disabled byte zero
		1...		GVTDISABLEENQCONTSTATS	If on then the ENQ contention statistics have been disabled and no further stats will be recorded
		.1..		GVTDISABLELATCONTSTATS	If on then the latch contention statistics have been disabled and no further stats will be recorded
		..1.		GVTDISABLENEWPELPROCESSING	Per the old way PEL overall flags will not be propagated to all PELs in an ENQ list request.
273	(111)	BITSTRING	1	GVTDISABLED1	Disabled byte one
274	(112)	BITSTRING	1	GVTDISABLED2	Disabled byte two
275	(113)	BITSTRING	1	GVTDISABLED3	Disabled byte three
276	(114)	BITSTRING	1	GVTDISABLED4	Disabled byte four

Table 922. Structure GVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
277	(115)	BITSTRING	1	GVTDISABLED5	Disabled byte five
278	(116)	BITSTRING	1	GVTDISABLED6	Disabled byte six
279	(117)	BITSTRING	1	GVTDISABLED7	Disabled byte seven
		The following flags indicate functions available in GRS when delivered via PTF. Other function availability can be determined from the CVTOSLVL field: GRS=STAR mode CVTOS390_R2 ENF51 signals CVTOS390_R2 Dynamic RESMIL, TOLINT CVTOS390_R6 Synchronous Reserve (SYNCHRES) CVTOS390_R7			
280	(118)	CHARACTER	8	GVTFUNCS	Functions delivered via PTF
280	(118)	BITSTRING	1	GVTFUNC0	Functions byte zero
		1...		GVTRNLWC	GRSRNL wildcarding is available, when set
		1...		GVTNQXIT	ISGNQXIT installation exit point is avalable, when set
		.1..		GVTEXIT1	ISGNQXITBATCH, ISGNQXITQUEUED1, ISGENDOFLQCB, ISGDGRSRES installation exit points are available
		.1..		GVTPCENQ	ENQ/DEQ LINKAGE=SYSTEM is available, when set
		..1.		GVTISGEC	ISGECA interface support is available
		...1		GVTCNFXT	ISGCNFXITSYSTEM, ISGCNFXITSYSPLEX installation exit points are available
		.... 1...		GVTEXIT2	ISGNQXITPREBATCH, ISGNQXITBATCHCND installation exit points are available, when set
		.... .1..		GVTEXIT3	ISGNQXITFAST available
		.... ..1.		GVTEXIT4	Exit cache available
		1		GVTQUICKSTEP	Step hash table (GvtxStHt) and address space related storage for Qwas, Qwbs, etc. (which exist in GRS user private storage) are available. See ISGYQSSA for a description of the address space related storage.
281	(119)	BITSTRING	1	GVTFUNC1	Functions byte one
282	(11A)	BITSTRING	1	GVTFUNC2	Functions byte two
283	(11B)	BITSTRING	1	GVTFUNC3	Functions byte three
284	(11C)	BITSTRING	1	GVTFUNC4	Functions byte four
285	(11D)	BITSTRING	1	GVTFUNC5	Functions byte five
286	(11E)	BITSTRING	1	GVTFUNC6	Functions byte six
287	(11F)	BITSTRING	1	GVTFUNC7	Functions byte seven
		THE FOLLOWING SECTION OF THE GVT IS USED PRIMARILY BY THE GRS CTC DRIVER MODULES.			
288	(120)	CHARACTER	16	GVTCTCDS	GRS CTC DRIVER SECTION

Table 922. Structure GVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
288	(120)	ADDRESS	4	GVTJGCT	ADDRESS OF THE GRS CTC DRIVER BRANCH TABLE
292	(124)	ADDRESS	4	GVTJCNFD	ADDRESS OF DATA CONTAINED IN GRSCNFXX PARMLIB MEMBER
296	(128)	ADDRESS	4	GVTJGCV	ADDRESS OF THE GRS CTC DRIVER VECTOR TABLE
300	(12C)	SIGNED	4	GVTJNPG	NUMBER OF PAGES
		THE FOLLOWING SECTION OF THE GVT IS USED PRIMARILY BY THE GRS COMMAND MODULES.			
304	(130)	CHARACTER	32	GVTGCMDS	GRS COMMAND SECTION
304	(130)	CHARACTER	8	GVTCMDQS	GRS COMMAND QUEUES
304	(130)	CHARACTER	4	GVTCMDRQ	COMMAND REQUEST QUEUE FOR ISGCMDR CONSISTING OF CRBS QUEUED BY ISGCMDI OR ISGBSR AS WELL AS MRBS QUEUED BY ISGBSR OR ISGGTRM0 (SERIALIZED BY COMPARE AND SWAP LOGIC)
304	(130)	BITSTRING	1	GVTCMDRQFLAGS1	
		1...		GVTNREQS	NO REQUEST FLAG - WHEN 1, NO MORE REQUESTS ARE TO BE PLACED ON THE COMMAND REQUEST QUEUE
		.111 1111		*	
305	(131)	BITSTRING	3	*	REMAINING PORTION OF THE COMMAND REQUEST QUEUE
308	(134)	ADDRESS	4	GVTCMDWQ	COMMAND WORK QUEUE FOR ISGCMDR TO HOLD CRB/MRBS MOVED FROM THE COMMAND REQUEST QUEUE
312	(138)	ADDRESS	4	GVTCMDCQ	COMMAND CLEANUP QUEUE FOR THE ETXR ROUTINE IN ISGCMDR CONSISTING OF CRB/MRBS QUEUED BY ISGCMDR (SERIALIZED BY COMPARE AND SWAP LOGIC)
316	(13C)	SIGNED	4	GVTCECB	ECB USED BY ISGCMDR TO WAIT FOR WORK, THIS ECB IS POSTED BY ISGCMDI, ISGBSR, OR ISGGTRM0 WHENEVER A CRB/MRB IS PLACED ON THE COMMAND REQUEST QUEUE
320	(140)	SIGNED	4	GVTCTLIM	TIME LIMIT IN UNITS OF 0.01 SECONDS FOR FUNCTIONS PERFORMED BY ISGBCI FOR GRS COMMAND MODULES
324	(144)	ADDRESS	4	GVT_MCA@	Pointer to the MCA - Migration Control Area
328	(148)	UNSIGNED	2	GVTDLAY	Delay percentage for QUIESCE cmd to wait. Value is 1.0% (X'A' = 1.0)
330	(14A)	CHARACTER	2	*	RESERVED
332	(14C)	ADDRESS	4	GVTCQT	Pointer to Contention Queue Table
		THE FOLLOWING SECTION OF THE GVT CONTAINS THOSE PC NUMBERS ASSIGNED TO GRS FUNCTIONS.			
336	(150)	CHARACTER	56	GVTPCS	PC NUMBER SECTION
336	(150)	CHARACTER	28	*	Unused

Table 922. Structure GVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
364	(16C)	SIGNED	4	GVTSMIPC	PC NUMBER FOR ISGSMI - STORAGE MANAGER INTERFACE MODULE
364	(16C)	CHARACTER	3	*	UNUSED BITS AND LX VALUE
367	(16F)	UNSIGNED	1	GVTSMIEX	ENTRY TABLE INDEX FOR THIS PC
368	(170)	SIGNED	4	GVTTRMPC	PC NUMBER FOR ISGGTRM1 - TERMINATION RESOURCE MANAGER MODULE
368	(170)	CHARACTER	3	*	UNUSED BITS AND LX VALUE
371	(173)	UNSIGNED	1	GVTTRMEX	ENTRY TABLE INDEX FOR THIS PC
372	(174)	CHARACTER	4	*	Unsed
376	(178)	SIGNED	4	GVTCSEPC	PC NUMBER FOR ISGCSETP - SET RESMIL VALUE ROUTINE
376	(178)	CHARACTER	3	*	UNUSED BITS , LX VALUE
379	(17B)	UNSIGNED	1	GVTCSEEX	ENTRY TABLE INDEX FOR THIS PC
380	(17C)	UNSIGNED	4	GVTMONLX	LXRES FOR GRS ENQ MONITOR PC
384	(180)	SIGNED	4	GVTMONPC	PC NUMBER FOR ISGAPREC
384	(180)	CHARACTER	3	*	UNUSED BITS , LX VALUE
387	(183)	UNSIGNED	1	GVTMONEX	ENTRY TABLE INDEX FOR THIS PC
388	(184)	SIGNED	4	GVTCDAPC	PC Number for ISGCDANG
388	(184)	CHARACTER	3	*	Unused bits, LX value
391	(187)	UNSIGNED	1	GVTCDAEX	Entry table index for this PC
		THE FOLLOWING SECTION OF THE GVT CONTAINS ENTRY POINT ADDRESSES OF THOSE GRS MODULES OR ROUTINES THAT RESIDE IN THE NUCLEUS OR LPA AS WELL AS THOSE GRS MODULES THAT ARE USED BY ENQ/DEQ MAINLINE (ISGGNQDQ).			
392	(188)	CHARACTER	96	GVTEPS	ENTRY POINT SECTION
392	(188)	ADDRESS	4	GVTBDR	ENTRY POINT ADDR OF ISGBDR - ESTABLISH A TIMER DIE TIME INTERVAL MODULE
396	(18C)	ADDRESS	4	GVTBDRC	ENTRY POINT ADDR OF ISGBDRC - TIME EXPIRATION CHECKING ROUTINE (ENTRY POINT IN ISGBDR)
400	(190)	ADDRESS	4	GVTCRET0	ENTRY POINT ADDR OF ISGCRET0 - ERRET MODULE FOR XM-POST OF ISGCMDR
404	(194)	ADDRESS	4	GVTCRCV	Address of ISGCRCV in ELPA
408	(198)	ADDRESS	4	GVTLSQUS	address of IEAVLSUP, the linkage stack query/update service
412	(19C)	ADDRESS	4	GVTGELFX	Address of ENF FLTRBLK exit, ISGGELFX
416	(1A0)	CHARACTER	20	*	Unused
436	(1B4)	SIGNED	4	GVT_CLEARCACHE@	ADDR of Clear Cache
440	(1B8)	ADDRESS	4	GVTSALG	Entry point address of ISGSALGN - Storage Manager 64-bit Allocation Routine for non-ASA callers
444	(1BC)	ADDRESS	4	GVTSDAG	Entry point address of ISGSDAGN - Storage Manager 64-bit Deallocation Routine for non-ASA callers
448	(1C0)	ADDRESS	4	GVTELRSM	IEAVTMR3 address in IEAVTRM0 This is the latch fast lock memterm resource manager

Table 922. Structure GVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
452	(1C4)	ADDRESS	4	GVTGWAIT	ENTRY POINT ADDR OF ISGGWAIT - GRS WAIT MODULE FOR GENERAL USE (31 BIT MODE)
456	(1C8)	CHARACTER	4	*	Unused
460	(1CC)	ADDRESS	4	GVTSALC	ENTRY POINT ADDR OF ISGSALC - STORAGE MANAGER ALLOCATION MODULE
464	(1D0)	ADDRESS	4	GVTSDAL	ENTRY POINT ADDR OF ISGSDAL - STORAGE MANAGER DEALLOCATION MODULE
468	(1D4)	CHARACTER	4	*	Unused
472	(1D8)	ADDRESS	4	GVTSRNMH	Entry point addr of ISGSRNMH - Storage Manager resource name hash routine (entry point in ISGSHASH, 31 bit mode). No longer used internally by GRS, but other components call this routine for hashing their control blocks. As such, this entry point cannot be removed
476	(1DC)	CHARACTER	12	*	Unused
		THE FOLLOWING SECTION OF THE GVT IS USED FOR THE TIMED EVENT DATA TRACE SERVICE.			
488	(1E8)	CHARACTER	16	GVTTEDTOKEN	Token returned by TED Register service in ISGNTASC and used on subsequent TED RECORD invocations
		THE FOLLOWING SECTION OF THE GVT IS USED BY THE RNL-SEARCH FUNCTION.			
504	(1F8)	CHARACTER	8	GVTGRHS	GRS RNL-SEARCH SECTION
504	(1F8)	ADDRESS	4	GVTGRHS0	ADDRESS OF MODULE ISGGRHS0
508	(1FC)	ADDRESS	4	GVTGRHS1	ADDRESS OF MODID INFO FOR MODULE ISGGRHS0
		THE FOLLOWING SECTION OF THE GVT IS USED PRIMARILY BY THE TRACE MODULES OF GRS.			
512	(200)	CHARACTER	8	GVTTR	GRS TRACE SECTION
512	(200)	ADDRESS	4	GVTTCA@	Address of the GRS trace control area in common
516	(204)	BITSTRING	4	GVTTFLAG	GRS Trace flags: when 1, tracing is active. when 0, tracing is not active.
516	(204)	BITSTRING	1	GVTTFLAG1	
		1...		GVTTCNTL	Selected event tracing
		.1..		GVTTRSA	RSA tracing
		..1.		GVTTSIGN	Signalling tracing
		...1		GVTTREQ	Request tracing
		.... 1...		GVTTMON	Monitor tracing
		.... .111		*	Reserved
517	(205)	BITSTRING	3	*	Reserved
		THE FOLLOWING SECTION OF THE GVT CONTAINS XCF RELATED INFORMATION.			

Table 922. Structure GVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
520	(208)	CHARACTER	32	GVTXCF	XCF SECTION
520	(208)	ADDRESS	4	GVTRSVX	POINTER TO RSVX
524	(20C)	BITSTRING	8	GVTSTATF	Status field containing GRS member information used by XCF monitoring. This field is modified to signal that work is in progress.
532	(214)	BITSTRING	2	GVTXCFFL	GRS XCF Flags
		1...		GVTMULTS	System is to be IPLed into an XCF multisystem environment, so GRS must be active
532	(214)	BITSTRING	1	*	RESERVED
534	(216)	CHARACTER	2	*	RESERVED
536	(218)	ADDRESS	8	GVTSTARSTATUS	Status field for STAR mode that will never change, so XCF will continually poll for our status. This provides an implicit test of the health of our address space and its ability to run SRBs. This field contains a ptr to a data area mapped in ISGXSTAX. See the usage for more details
544	(220)	UNSIGNED	4	GVTSYSTEMFDI	In hundredths of a second. For comparison to determine if this system''s FDI changed This is only set in STAR Mode
548	(224)	CHARACTER	4	*	RESERVED
THE FOLLOWING SECTION OF THE GVT CONTAINS DYNAMIC RNL RELATED FIELDS					
552	(228)	CHARACTER	56	GVTDRNL	Dynamic RNL fields
552	(228)	CHARACTER	16	GVTDEPS	Dynamic RNL entry points
552	(228)	ADDRESS	4	GVTGDRQU	Used to call ISGGDRQU
556	(22C)	CHARACTER	8	*	Reserved. Not used
564	(234)	ADDRESS	4	GVTRNLUF	Used to call ISGRNLUF
568	(238)	CHARACTER	32	GVTDWA	Work area pointers
568	(238)	ADDRESS	4	GVTDRQUL	Work area for ISGGDRQU - serialized by CMSEQDQ lock, local requests
572	(23C)	ADDRESS	4	GVTDRQUG	Work area for ISGGDRQU - serialized by GRS local lock, global requests
576	(240)	CHARACTER	12	*	Unused
588	(24C)	ADDRESS	4	GVTRCANW	Work area for ISGGRCAN - serialized by CMSEQDQ lock.
592	(250)	ADDRESS	4	GVTRUFGW	Work area for ISGRNLUF - serialized by GRS local lock, global requests
596	(254)	ADDRESS	4	GVTRUFLW	Work area for ISGRNLUF - serialized by CMSEQDQ lock, local requests
600	(258)	CHARACTER	8	GVTMISC	Miscellaneous fields
600	(258)	ADDRESS	4	GVTRCA	Address of RNL Change Area (RCA)
604	(25C)	BITSTRING	1	GVTFLAGS	FLags

Table 922. Structure GVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		GVTNOQRT	Turns off QRT compression
		.1..		GVTSQVAL	There is a valid suspend queue anchored in the RCA
		..1.		GVTRNLIP	There is an RNL change in progress.
		...1		GVTMAYREVERTTONONE	The RING server has not yet fully started and it might end up reverting back to NONE mode (or already has reverted back to NONE). What this means is the CMSEQDQ lock must be obtained and the mode checked before queuing a request to the RING global processor.
		 1111		*	Reserved
605	(25D)	CHARACTER	3	*	Reserved
THE FOLLOWING SECTION OF THE GVT IS USED FOR RESERVE RELATED FUNCTIONS.					
608	(260)	CHARACTER	4	*	Unused
612	(264)	ADDRESS	4	GVTRSTRT	Address of Reserve-Start routine (ISGGRSVS)
616	(268)	CHARACTER	4	*	unused
620	(26C)	ADDRESS	4	GVTCOMMONWORKAREA@	CommonWorkArea ptr - Serialized by CMSEQDQ lock. Points to an 8 page workarea above the line in Common
THE FOLLOWING FIELDS ARE USED FOR STAR-MODE PROCESSING					
624	(270)	CHARACTER	4	*	Unused
628	(274)	SIGNED	4	GVTSSECB	System Server task's master ECB that is waited on when waiting for work.
632	(278)	CHARACTER	8	*	Unused
640	(280)	SIGNED	4	GVTITECB	Initialization task's master ECB that is waited on when waiting for work.
644	(284)	ADDRESS	4	*	Reserved
648	(288)	ADDRESS	4	GVTDSL@	Address of the SUMLIST used for dumping during Star-mode recovery processing
652	(28C)	BITSTRING	1	*	Unused
653	(28D)	CHARACTER	3	*	Reserved
The following are the trace control bits for Star mode code. Each word represents a major option and logically consists of 16 bit pairs. Each bit pair represents one of the 16 sub-options for that major option. The first pair (high-order two) represents sub-option 0, the next pair sub-option 1, etc. For a given pair, the high-order bit will be on if the events of the sub-option it represents are to be traced. The second bit will be on if tracing for these events is to be limited. The ISGTRACE macro requires that the names of the bits consist of GVTZ followed by the first four letters of the name of the major option.					
656	(290)	BITSTRING	4	GVTZCONT	CONTROL option flags

Table 922. Structure GVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
660	(294)	BITSTRING	4	GVTZREQU	REQUEST option flags
664	(298)	BITSTRING	4	GVTZMONI	MONITOR option flags
668	(29C)	BITSTRING	4	GVTZSIGN	SIGNAL option flags
672	(2A0)	BITSTRING	4	GVTZFLOW	FLOW option flags
676	(2A4)	CHARACTER	8	*	Reserved
		The following two declares are for issuing waitstate messages via ISGZLDWT. The minimal assumption is that the GVT will be available to make such requests. If the GVT is unavailable, ABEND 09A/mmC0 - 'C0'X indicates a bad control block was detected.			
684	(2AC)	ADDRESS	4	GVTNLDWX	Address of ISGNLDWX
688	(2B0)	ADDRESS	4	GVTMIMSP	Address of ISGMIMSP
692	(2B4)	ADDRESS	4	GVTMTVT@	LPA module table address
696	(2B8)	BITSTRING	8	GVTLRNLC	TOD last RNL change
704	(2C0)	CHARACTER	24	*	unused
728	(2D8)	UNSIGNED	4	GVTGRSQ	GRSQ indication, defaulted to GVT_kGRSQ_ALL
732	(2DC)	CHARACTER	20	*	Unused
752	(2F0)	ADDRESS	8	GVTGVTX64	64-bit pointer to GVTX
760	(2F8)	CHARACTER	0	GVTEND	END OF GVT

Table 923. Structure GVTMTVTAREA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	80	GVTMTVTAREA	
0	(0)	ADDRESS	4	GVTMTVT(20)	LPA mod table

Table 924. Constants for GVT

Len	Type	Value	Name	Description
	GVT CONSTANTS FOR DYNAMIC RNLS			
4	DECIMAL	512	GVTDWASZ	Size of work area GVTDRQUL, GVTDRQUG,GVTRNLCW, AND
4	DECIMAL	32768	KGVTCOMMONWORKAREASIZE	
	GVT CONSTANTS FOR GVTGRSQ			
4	DECIMAL	0	GVT_KGRSQ_ALL	All QScan information gathered for dump
4	DECIMAL	1	GVT_KGRSQ_CONTENTION	QScan from dump specifies WaitCnt=1
4	DECIMAL	2	GVT_KGRSQ_LOCAL	QScan from dump specifies XSys=NO

Table 925. Cross Reference for GVT

Name	Offset	Hex Tag
GVT	0	
GVT_CLEARCACHE	3C	80
GVT_CLEARCACHE@	1B4	
GVT_EXITCACHE@	3C	
GVT_EXITCACHE@BYTES2AND3	3D	

Table 925. Cross Reference for GVT (continued)

Name	Offset	Hex Tag
GVT_EXITCACHE@BYTE1	3C	
GVT_EXITCACHE@BYTE4	3F	
GVT_EXITCACHEBAD	3F	01
GVT_MCA@	144	
GVTASYOH	D8	
GVTAURJN	8	01
GVTAURST	8	08
GVTBDR	188	
GVTBDRC	18C	
GVTBDRMI	BC	
GVTBFTAT	100	
GVTCDAEX	187	
GVTCDAPC	184	
GVTCECB	13C	
GVTCMDCQ	138	
GVTCMDQS	130	
GVTCMDRQ	130	
GVTCMDRQFLAGS1	130	
GVTCMDWQ	134	
GVTCMPAT	C	
GVTCNFER	9	80
GVTCNFXT	118	10
GVTCOMMONWORKAREA@	26C	
GVTCQT	14C	
GVTCRCV	194	
GVTCRET0	190	
GVTCS	20	
GVTCSEEX	17B	
GVTCSEPC	178	
GVTCSFLG	20	
GVTCSGRSCONSTRAINED	21	
GVTCSRSV	22	
GVTCSXFAILED	74	01
GVTCTCDS	120	
GVTCTLIM	140	
GVTDEPS	228	
GVTDISABLEDFLAGS	110	
GVTDISABLED0	110	
GVTDISABLED1	111	
GVTDISABLED2	112	
GVTDISABLED3	113	
GVTDISABLED4	114	
GVTDISABLED5	115	
GVTDISABLED6	116	
GVTDISABLED7	117	
GVTDISABLEENQCONTSTATS	110	80
GVTDISABLELATCONTSTATS	110	40
GVTDISABLENEWPELPROCESSING	110	20
GVTDLAY	148	

Table 925. Cross Reference for GVT (continued)

Name	Offset	Hex Tag
GVTDMSCW	AC	
GVTDRNL	228	
GVTDRQUG	23C	
GVTDRQUL	238	
GVTDSL@	288	
GVTDWA	238	
GVTELRSM	1C0	
GVTENBLHOTCMSG	A	80
GVTEND	2F8	
GVTENFLG	A	
GVTEPS	188	
GVTERQACONSTRAINED	21	80
GVTERSVC	38	
GVTEXIT1	118	40
GVTEXIT2	118	08
GVTEXIT3	118	04
GVTEXIT4	118	02
GVTFDEQF	C8	
GVTFLAGS	25C	
GVTFUNCS	118	
GVTFUNC0	118	
GVTFUNC1	119	
GVTFUNC2	11A	
GVTFUNC3	11B	
GVTFUNC4	11C	
GVTFUNC5	11D	
GVTFUNC6	11E	
GVTFUNC7	11F	
GVTGALET	24	
GVTGASCB	14	
GVTGCMDS	130	
GVTGDRQU	228	
GVTGEAX	6C	
GVTGELFX	19C	
GVTGGRAQHTCP64	108	
GVTGQDMG	5	80
GVTGRET	CC	
GVTGRHS	1F8	
GVTGRHS0	1F8	
GVTGRHS1	1FC	
GVTGRPRB	18	
GVTGRQACONSTRAINED	21	40
GVTGRSAS	4	80
GVTGRSMONXX	48	
GVTGRSNA	4	40
GVTGRSOP	6	
GVTGRSPC	4	20
GVTGRSQ	2D8	
GVTGRSRP	8	

Table 925. Cross Reference for GVT (continued)

Name	Offset	Hex Tag
GVTGSECT	4	
GVTGSFLG	4	
GVTGVTX	10	
GVTGVTX64	2F0	
GVTGWAIT	1C4	
GVTHDRPT	FC	
GVTICCEC	E0	
GVTICCEP	DC	
GVTICRRC	E8	
GVTICRRP	E4	
GVTID	0	
GVTINACT	8	20
GVTINITS	28	
GVTISGEC	118	20
GVTITECB	280	
GVTJCNFD	124	
GVTJGCT	120	
GVTJGCV	128	
GVTJNPG	12C	
GVTJOIN	6	40
GVTJSRBS	8	04
GVTLATCH	C0	
GVTLCPTOK	C4	
GVTLISTS	60	
GVTLIVEEXITS	74	
GVTLIVEEXITS1	74	
GVTLIVEEXITS2	75	
GVTLPBYA	C0	
GVTLQDMG	5	40
GVTLRNLC	2B8	
GVTLSQUS	198	
GVTMAINR	8	40
GVTMAYREVERTTONONE	25C	10
GVTMIMSP	2B0	
GVTMISC	258	
GVTMONEX	183	
GVTMONITOR	20	20
GVTMONLX	17C	
GVTMONPC	180	
GVTMREAT	A0	
GVTMREATSTATUS	A7	
GVTMRSCW	A8	
GVTMRTQE	B0	
GVTMSICP	4	02
GVTMTVT	0	
GVTMTVT@	2B4	
GVTMTVTAREA	0	
GVTMULTS	214	80
GVTNCMDR	4	08

Table 925. Cross Reference for GVT (continued)

Name	Offset	Hex Tag
GVTNCOMM	8	80
GVTNHRPT	F8	
GVTNLDWX	2AC	
GVTNMRHP	F4	
GVTNMRRC	F0	
GVTNMRRP	EC	
GVTNOCTC	9	10
GVTNONE	6	20
GVTNOQRT	25C	80
GVTNQDQS	40	
GVTNQMON	4C	
GVTNQXIT	118	80
GVTNREQS	130	80
GVTNTCB	28	
GVTNTLIM	34	
GVTNXBX	74	40
GVTNXCB	74	02
GVTNXFQ	74	10
GVTNXLQD	74	08
GVTNXNQ	74	80
GVTNXPB	74	04
GVTNXQ1X	74	20
GVTNXQ2X	75	20
GVTOLINT	D4	
GVTPCENQ	118	40
GVTPCS	150	
GVTPRGOK	4	10
GVTPRMLB	9	
GVTQMRGA	5	20
GVTQSFLG	5	
GVTQUICKSTEP	118	01
GVTRCA	258	
GVTRCANW	24C	
GVTRCNST	D0	
GVTRCRNL	68	
GVTREQQ	40	
GVTRINGS	90	
GVTRNLEA	7	08
GVTRNLER	9	40
GVTRNLIP	25C	20
GVTRNLUF	234	
GVTRNLVC	7	80
GVTRNLWC	118	80
GVTRRET	CA	
GVTRSAST	A7	01
GVTRSE	1C	
GVTRSSRB	B8	
GVTRSTRT	264	
GVTRSVX	208	

Table 925. Cross Reference for GVT (continued)

Name	Offset	Hex Tag
GVTRUFGW	250	
GVTRUFLW	254	
GVTSALC	1CC	
GVTSALG	1B8	
GVTSDAG	1BC	
GVTSDAL	1D0	
GVTSERNL	60	
GVTSIRNL	64	
GVTSLTS	C8	
GVTSMIEX	16F	
GVTSMIPC	16C	
GVTSP18I	106	80
GVTSQVAL	25C	40
GVTSRNMH	1D8	
GVTSSECB	274	
GVTSTAR	6	08
GVTSTARSTATUS	218	
GVTSTART	6	80
GVTSTATF	20C	
GVTSTEPQUEUEDAMAGE	5	10
GVTSYNCH	20	80
GVTSYNCHDISABLED	20	40
GVTSYSID	9A	
GVTSYSNM	90	
GVTSYSPLEXCNFX	75	40
GVTSYSTEMCNFX	75	80
GVTSYSTEMFDI	220	
GVTSYSZTIOTMAXDEFER	2C	
GVTTCA@	200	
GVTTCNTL	204	80
GVTTEDTOKEN	1E8	
GVTTFLAG	204	
GVTTFLAG1	204	
GVTTHRS	104	
GVTTMON	204	08
GVTTR	200	
GVTTREQ	204	10
GVTTRMEX	173	
GVTTRMPC	170	
GVTTRSA	204	40
GVTTRYJN	6	10
GVTTSIGN	204	20
GVTTWEAK	106	
GVTVCRNL	7	10
GVTVERNL	7	40
GVTVFLAG	7	
GVTVIRNL	7	20
GVTXCF	208	
GVTXCFFL	214	

Table 925. Cross Reference for GVT (continued)

Name	Offset	Hex Tag
GVTZCONT	290	
GVTZFLOW	2A0	
GVTZMONI	298	
GVTZREQU	294	
GVTZSIGN	29C	

Chapter 228. GWT Information

GWT Heading Information

Common Name:	VSM Get Region Work Table
Macro ID:	IHAGWT
DSECT Name:	GWT
Owning Component:	Virtual Storage Manager (SC1CH)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 253 Key: 0
Size:	12 bytes
Created by:	IEFSD263
Pointed to by:	N/A
Serialization:	None
Function:	Interface to VSM GET/FREE REGION routines.

GWT mapping

Table 926. Structure GWT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	12	GWT	GETREGION WORK TABLE
0	(0)	ADDRESS	4	GWTVRRST	V=R RESTART START ADDRESS, OR
4	(4)	ADDRESS	4	GWTEVVST	EXTD V=V START ADDR FOR RESTART
8	(8)	ADDRESS	4	GWTECB	ECB ADDRESS FOR V=R PROCESSING
12	(C)	CHARACTER	0	GWTEND	END OF GWT

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Chapter 229. HCL Information

HCL Programming Interface Information

HCL is a programming interface.

HCL Heading Information

Common Name:	HARDCOPY LOG FORMAT (HCL OR HCR)
Macro ID:	IHAHCLOG
DSECT Name:	HCL OR HCRREQ
Owning Component:	CONSOLE (SC1CK)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: N/A Key: N/A Residency: N/A
Size:	55 BYTES PLUS A FIELD OF VARIABLE LENGTH AT OFFSET 55 (when the system is using a 2-digit year). If system is using 4-digit years in the log (HCFORMAT(CENTURY) was specified in CONSOLxx) , then the size is 57 bytes, plus a field of variable length at offset 57.
Created by:	N/A
Pointed to by:	N/A
Serialization:	NONE
Function:	MAPS HARDCOPY LOG RECORDS

HCL mapping

Table 927. Structure HCL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HCL	HARDCOPY LOG RECORD
0	(0)	X'0'	0	HCLHEAD	"*" HEADER INFORMATION
0	(0)	CHARACTER	2	HCLRECID(0)	RECORD ID
0	(0)	CHARACTER	1	HCLRECTP	RECORD TYPE
0	(0)	X'D5'	0	HCLWTO	"C'N'" SINGLE-LINE MESSAGE
0	(0)	X'E6'	0	HCLWTOR	"C'W'" SINGLE-LINE MESSAGE WITH REPLY
0	(0)	X'D4'	0	HCLMLWTO	"C'M'" FIRST LINE OF A MULTI-LINE MESSAGE
0	(0)	X'D6'	0	HCLLOG	"C'O'" LOG COMMAND INPUT
0	(0)	X'E7'	0	HCLOTHER	"C'X'" ENTRY FROM A SOURCE OTHER THAN HARDCOPY OR LOG COMMAND
0	(0)	X'E2'	0	HCLSPLIT	"C'S'" CONTINUATION OF PREVIOUS LINE
0	(0)	X'D3'	0	HCLLABEL	"C'L' LABEL LINE OF A MULTI-LINE MESSAGE "
0	(0)	X'C4'	0	HCLDATA	"C'D'" DATA LINE OF A MULTI-LINE MESSAGE
0	(0)	X'C5'	0	HCLDTEND	"C'E'" DATA/END LINE OF A MULTI-LINE MESSAGE

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Table 927. Structure HCL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1	(1)	CHARACTER	1	HCLREQTP	REQUEST TYPE
1	(1)	X'C3'	0	HCLCMD	"C'C'" COMMAND ISSUED BY OPERATOR
1	(1)	X'D9'	0	HCLRESP	"C'R'" COMMAND RESPONSE
1	(1)	X'C9'	0	HCLINTNL	"C'I'" INTERNAL ISSUED COMMAND
1	(1)	X'E4'	0	HCLUNKID	"C'U'" COMMAND FROM UNKNOWN CONSOLE ID
2	(2)	CHARACTER	7	HCLROUTC	ROUTING CODES
9	(9)	CHARACTER	1		BLANK
10	(A)	CHARACTER	8	HCLSYSID	SYSTEM NAME
18	(12)	CHARACTER	1		BLANK
19	(13)	CHARACTER	5	HCLDATE(0)	JULIAN DATE OF MESSAGE - YYDDD
19	(13)	CHARACTER	2	HCLYEAR	YEAR YY
21	(15)	CHARACTER	3	HCLDAY	DAY OF YEAR DDD
24	(18)	CHARACTER	1	HCLFRMT	BLANK
25	(19)	CHARACTER	11	HCLTIME(0)	TIME MESSAGE WAS ISSUED - HH:MM:SS.TH
25	(19)	CHARACTER	2	HCLHR	HOURS HH
27	(1B)	CHARACTER	1	HCLCOLN1	COLON :
28	(1C)	CHARACTER	2	HCLMIN	MINUTES MM
30	(1E)	CHARACTER	1	HCLCOLN2	COLON :
31	(1F)	CHARACTER	2	HCLSEC	SECONDS SS
33	(21)	CHARACTER	1	HCLDOT1	DECIMAL POINT .
34	(22)	CHARACTER	2	HCLTHSEC	.01 SECONDS TH
36	(24)	CHARACTER	1		BLANK
37	(25)	CHARACTER	8	HCLCONID(0)	ID OF CONSOLE THAT ISSUED COMMAND - APPEARS ON FIRST/ONLY LINE OF COMMANDS AND COMMAND RESPONSES
37	(25)	CHARACTER	8	HCLJOBID(0)	ID OF JOB THAT ISSUED MESSAGE - APPEARS ON FIRST/ONLY LINE OF OTHER MESSAGES
37	(25)	CHARACTER	5		RESERVED
42	(2A)	CHARACTER	3	HCLMLID	MULTI-LINE MESSAGE ID - APPEARS ON ADDITIONAL LINES OF MULTI-LINE MESSAGES
45	(2D)	CHARACTER	1		BLANK
46	(2E)	CHARACTER	8	HCLREQFL	USER EXIT/MPF REQUEST FLAGS

Table 927. Structure HCL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
        WHEN THIS PRINTABLE HEX VALUE IS CONVERTED TO
        BINARY, THE RESULTING BITS HAVE THE FOLLOWING
        DEFINITIONS ASSOCIATED WITH THEM.
        REQUEST FLAGS BYTE 1
           BIT POSITION X'80' - MESSAGE TEXT WAS CHANGED
           BIT POSITION X'40' - ROUTING CODES WERE CHANGED
           BIT POSITION X'20' - DESCRIPTOR CODES WERE
                               CHANGED
           BIT POSITION X'10' - MESSAGE WAS QUEUED TO A
                               PARTICULAR ACTIVE CONSOLE
           BIT POSITION X'08' - RESERVED
           BIT POSITION X'04' - MESSAGE WAS QUEUED BY
                               ROUTING CODES ONLY
           BIT POSITION X'02' - THE CONSOLE ID TO WHICH THE
                               MESSAGE WAS QUEUED, WAS
                               CHANGED
           BIT POSITION X'01' - MINOR LINES WERE PROCESSED
        REQUEST FLAGS BYTE 2
           BIT POSITION X'80' - MESSAGE WAS DELETED
           BIT POSITION X'40' - MPF SUPPRESSION OVERRIDDEN
           BIT POSITION X'20' - MESSAGE WAS FORCED TO
                               HARDCOPY
           BIT POSITION X'10' - MESSAGE BYPASSED HARDCOPY
           BIT POSITION X'08' - MESSAGE WAS FORCED TO
                               HARDCOPY ONLY
           BIT POSITION X'04' - MESSAGE WAS BROADCASTED TO
                               ACTIVE CONSOLES
           BIT POSITION X'02' - BROADCASTING OF MESSAGE WAS
                               TURNED OFF
           BIT POSITION X'01' - A USER EXIT REQUESTED THAT THIS
                               MESSAGE NOT BE RETAINED
        REQUEST FLAGS BYTE 3
           BIT POSITION X'80' - A USER EXIT REQUESTED THAT THIS
                               MESSAGE BE RETAINED
           BIT POSITION X'40' - CHANGE THE RETRIEVAL KEY
           BIT POSITION X'20' - CHANGE THE 4-BYTE CONSOLE ID
           BIT POSITION X'10' - CHANGE THE MESSAGE TYPE FLAGS
           BIT POSITION X'08' - AUTOMATION IS NOT REQUIRED
           BIT POSITION X'04' - AUTOMATION IS REQUIRED
                               AND/OR AUTOMATION TOKEN
           BIT POSITION X'02' - MESSAGE WAS ISSUED AS
                               HARDCOPY ONLY
           BIT POSITION X'01' - RESERVED IN JBB7727 (WAS UD
                               INDICATOR)
        SUPPRESSION FLAGS BYTE 4
           BIT POSITION X'80' - MESSAGE NOT SERVICED BY ANY
                               WTO USER EXIT
           BIT POSITION X'40' - WTO USER EXIT ABENDED PROCESSING
                               THIS MESSAGE
           BIT POSITION X'20' - MESSAGE NOT SERVICED BECAUSE
                               OF AN INCOMPATIBLE REQUEST
           BIT POSITION X'10' - AUTOMATION REQUESTED
           BIT POSITION X'08' - Message Flood Automation
                               processed this message
           BIT POSITION X'04' - MESSAGE SUPPRESSED BY A
                               SUBSYSTEM
           BIT POSITION X'02' - MESSAGE SUPPRESSED BY A
                               WTO USER EXIT ROUTINE
           BIT POSITION X'01' - MESSAGE SUPPRESSED BY MPF or
                               Message Flood Automation
```

Table 927. Structure HCL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
54	(36)	CHARACTER	1		BLANK
54	(36)	X'37'	0	HCLHEADL	"*-HCLHEAD" LENGTH OF HEADER
54	(36)	X'37'	0	HCLTEXT	"*" MESSAGE OR COMMAND TEXT

Table 928. Structure HCRREC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HCRREC	HARDCOPY LOG RECORD WITH A DATE OF THE FORM YYYYDDD
0	(0)	X'0'	0	HCRHEAD	"*" HEADER INFORMATION
0	(0)	CHARACTER	2	HCRRECID(0)	RECORD ID
0	(0)	CHARACTER	1	HCRRECTP	RECORD TYPE
0	(0)	X'D5'	0	HCRWTO	"C'N'" SINGLE-LINE MESSAGE
0	(0)	X'E6'	0	HCRWTOR	"C'W'" SINGLE-LINE MESSAGE WITH REPLY
0	(0)	X'D4'	0	HCRMLWTO	"C'M'" FIRST LINE OF A MULTI-LINE MESSAGE
0	(0)	X'D6'	0	HCRLOG	"C'O'" LOG COMMAND INPUT
0	(0)	X'E7'	0	HCROTHER	"C'X'" ENTRY FROM A SOURCE OTHER THAN HARDCOPY OR LOG COMMAND
0	(0)	X'E2'	0	HCRSPLIT	"C'S'" CONTINUATION OF PREVIOUS LINE
0	(0)	X'D3'	0	HCRLABEL	"C'L' LABEL LINE OF A MULTI-LINE MESSAGE "
0	(0)	X'C4'	0	HCRDATA	"C'D'" DATA LINE OF A MULTI-LINE MESSAGE
0	(0)	X'C5'	0	HCRDTEND	"C'E'" DATA/END LINE OF A MULTI-LINE MESSAGE
1	(1)	CHARACTER	1	HCRREQTP	REQUEST TYPE
1	(1)	X'C3'	0	HCRCMD	"C'C'" COMMAND ISSUED BY OPERATOR
1	(1)	X'D9'	0	HCRRESP	"C'R'" COMMAND RESPONSE
1	(1)	X'C9'	0	HCRINTNL	"C'I'" INTERNAL ISSUED COMMAND
1	(1)	X'E4'	0	HCRUNKID	"C'U'" COMMAND FROM UNKNOWN CONSOLE ID
2	(2)	CHARACTER	7	HCRROUTC	ROUTING CODES
9	(9)	CHARACTER	1		BLANK
10	(A)	CHARACTER	8	HCRSYSID	SYSTEM NAME
18	(12)	CHARACTER	1		BLANK
19	(13)	CHARACTER	7	HCRDATE(0)	JULIAN DATE OF MESSAGE - YYYYDDD
19	(13)	CHARACTER	2	HCRCENT	CENTURY YY
21	(15)	CHARACTER	5	HCRYYDDD(0)	OLD FORMAT OF DATE - YYDDD
21	(15)	CHARACTER	2	HCRYEAR	YEAR YY
23	(17)	CHARACTER	3	HCRDAY(0)	DAY OF YEAR DDD
23	(17)	CHARACTER	1		FIRST DIGIT OF DAY OF YEAR
24	(18)	CHARACTER	1	HCRFRMT	SECOND DIGIT OF DAY OF YEAR IF THIS FIELD IS A BLANK THEN THE HCL MAPPING SHOULD BE USED TO MAP THE HARDCOPY LOG RECORD
25	(19)	CHARACTER	1		LAST DIGIT OF DAY OF YEAR
26	(1A)	CHARACTER	1		BLANK

Table 928. Structure HCRREC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
27	(1B)	CHARACTER	11	HCRTIME(0)	TIME MESSAGE WAS ISSUED - HH:MM:SS.TH
27	(1B)	CHARACTER	2	HCRHR	HOURS HH
29	(1D)	CHARACTER	1	HCRCOLN1	COLON :
30	(1E)	CHARACTER	2	HCRMIN	MINUTES MM
32	(20)	CHARACTER	1	HCRCOLN2	COLON :
33	(21)	CHARACTER	2	HCRSEC	SECONDS SS
35	(23)	CHARACTER	1	HCRDOT1	DECIMAL POINT .
36	(24)	CHARACTER	2	HCRTHSEC	.01 SECONDS TH
38	(26)	CHARACTER	1		BLANK
39	(27)	CHARACTER	8	HCRCONID(0)	ID OF CONSOLE THAT ISSUED COMMAND - APPEARS ON FIRST/ONLY LINE OF COMMANDS AND COMMAND RESPONSES
39	(27)	CHARACTER	8	HCRJOBID(0)	ID OF JOB THAT ISSUED MESSAGE - APPEARS ON FIRST/ONLY LINE OF OTHER MESSAGES
39	(27)	CHARACTER	5		RESERVED
44	(2C)	CHARACTER	3	HCRMLID	MULTI-LINE MESSAGE ID - APPEARS ON ADDITIONAL LINES OF MULTI-LINE MESSAGES
47	(2F)	CHARACTER	1		BLANK
48	(30)	CHARACTER	8	HCRREQFL	USER EXIT/MPF REQUEST FLAGS - See description after HCLREQFL
56	(38)	CHARACTER	1		BLANK
56	(38)	X'39'	0	HCRHEADL	"*-HCRHEAD" LENGTH OF HEADER
56	(38)	X'39'	0	HCRTEXT	"*" MESSAGE OR COMMAND TEXT
MISCELLANEOUS CONSTANTS					
56	(38)	X'7A'	0	HCLCOLON	"C':'" COLON FOR TIMESTAMP
56	(38)	X'4B'	0	HCLDOT	"C'.'" DECIMAL POINT FOR TIMESTAMP
56	(38)	X'40'	0	HCLBLANK	"C' '" BLANK FOR COLUMN SEPARATION

Table 929. Cross Reference for HCL

Name	Offset	Hex Tag
HCL	0	
HCLBLANK	38	40
HCLCMD	1	C3
HCLCOLN1	1B	
HCLCOLN2	1E	
HCLCOLON	38	7A
HCLCONID	25	
HCLDATA	0	C4
HCLDATE	13	
HCLDAY	15	
HCLDOT	38	4B
HCLDOT1	21	
HCLDTEND	0	C5
HCLFRMT	18	

Table 929. Cross Reference for HCL (continued)

Name	Offset	Hex Tag
HCLHEAD	0	0
HCLHEADL	36	37
HCLHR	19	
HCLINTNL	1	C9
HCLJOBID	25	
HCLLABEL	0	D3
HCLLOG	0	D6
HCLMIN	1C	
HCLMLID	2A	
HCLMLWTO	0	D4
HCLOTHER	0	E7
HCLRECID	0	
HCLRECTP	0	
HCLREQFL	2E	
HCLREQTP	1	
HCLRESP	1	D9
HCLROUTC	2	
HCLSEC	1F	
HCLSPLIT	0	E2
HCLSYSID	A	
HCLTEXT	36	37
HCLTHSEC	22	
HCLTIME	19	
HCLUNKID	1	E4
HCLWTO	0	D5
HCLWTOR	0	E6
HCLYEAR	13	
HCRCENT	13	
HCRCMD	1	C3
HCRCOLN1	1D	
HCRCOLN2	20	
HCRCONID	27	
HCRDATA	0	C4
HCRDATE	13	
HCRDAY	17	
HCRDOT1	23	
HCRDTEND	0	C5
HCRFRMT	18	
HCRHEAD	0	0
HCRHEADL	38	39
HCRHR	1B	
HCRINTNL	1	C9
HCRJOBID	27	
HCRLABEL	0	D3
HCRLOG	0	D6
HCRMIN	1E	
HCRMLID	2C	
HCRMLWTO	0	D4
HCROTHER	0	E7

Table 929. Cross Reference for HCL (continued)

Name	Offset	Hex Tag
HCRREC	0	
HCRRECID	0	
HCRRECTP	0	
HCRREQFL	30	
HCRREQTP	1	
HCRRESP	1	D9
HCRROUTC	2	
HCRSEC	21	
HCRSPLIT	0	E2
HCRSYSID	A	
HCRTEXT	38	39
HCRTHSEC	24	
HCRTIME	1B	
HCRUNKID	1	E4
HCRWTO	0	D5
HCRWTOR	0	E6
HCRYEAR	15	
HCRYYDDD	15	

HCL mapping

Chapter 230. HIDT Information

HIDT Heading Information

Common Name:	HOT I/O Detection Table
Macro ID:	IOSDHIDT
DSECT Name:	HIDT
Owning Component:	I/O Supervisor (SC1C3)
Eye-Catcher ID:	'IOSRHIDT' Offset: 0 Length: 8
Storage Attributes:	Subpool: 245 Key: 0 Data Space: N/A Residency: Nucleus
Size:	170-Bytes
Created by:	IOSRHIDT
Pointed to by:	N/A
Serialization:	HIDHOTQ, HIDSCDAN and HIDCPCNT are serialized via the HOT I/O Synchronization Lock

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HIDT Heading Information

Function: This macro maps the HOT I/O detection table. It contains the threshold value used to determine if HOT I/O is occuring and contains anchors to control blocks used in determining and processing HOT I/O conditions.
Notes: The assembler version of this macro is used to generate the CSECT. The threshold and default processing flags can be altered by using the following keywords:
DVTHRSH - Device Threshold Value used to determine how many consecutive unsolicited interrupts must occur for a given device before the device is considered "hot".
Optional.
Default = 100
DFLT110, DFLT111 and DFLT112 are the parameters which are used to describe the default recovery actions for non-serial devices.
DFLT110=(Non-recursive Recovery Action, Recursive Recovery Action)
- Recovery processing action to be taken in response to the conditions which would result in the IOS110D message being issued (ie: The hot device is not DASD). If a recovery action is supplied, the IOS110D message will not be issued since the reason for the message is to obtain the recovery action from the operator. However, an informational message (IOS109I) will be issued to inform the operator that a hot I/O condition has occurred and the recovery action taken.
- Valid action values are:
CHPK - Try to recover the channel path and leave it online if channel path recovery is successful.
CHPF - Force the channel path offline (the same processing done for the operator command 'VARY CHP(xx) FORCE' will be done).
BOX - Box the device
- Optional
- Default - Issue the IOS110D message and obtain recovery action from the operator.
DFLT111=(Non-recursive Recovery Action, Recursive Recovery Action)
- Same as DFLT110, except that this variable is associated with the IOS111D message (Ie: The Hot device is a non-reserved DASD).

- Optional
- Default - Issue the IOS111D message and obtain recovery action from operator
DFLT112=(Non-recursive Recovery Action, Recursive Recovery Action)
- Same as DFLT110, except that this variable is associated with the IOS112D message (Ie: The hot device is a reserved DASD).
- Optional
- Default - Issue the IOS112D message and obtain recovery action from operator.
SDFT110, SDFT111 and SDFT112 are the parameters which are used to describe the default recovery actions for serial devices.
- valid actions are:
CHPK - try to recover the channel path and leave it online if channel path recovery is successful
CHPF - force the channel path offline, (the same processing done for the operator command V CHP(XX),FORCE will be done)
BOX - box the device
CUK - let channel path recovery attempt control unit recovery
SDFT110=(non-recursive recovery action, recursive recovery action)
- specifies the recovery action to be taken for a non-DASD, non-dynamic pathing device.
- OPTIONAL
- DEFAULT = Issue IOS110D message and obtain recovery action from operator.
SDFT111=(non-recursive recovery action, recursive recovery action)
- specifies the recovery action to be taken for a DASD or dynamic pathing device that is not reserved/assigned.
- OPTIONAL
- DEFAULT = Issue IOS111D message and obtain recovery action from operator.
SDFT112=(non-recursive recovery action, recursive recovery action)
- specifies the recovery action to be taken for a DASD or a dynamic pathing device that is reserved/assigned.
- OPTIONAL
- DEFAULT = Issue IOS112D message and obtain recovery action from operator.

HIDT mapping

Table 930. Structure HIDT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	368	HIDT	Hot I/O detection table
0	(0)	CHARACTER	24	HIDMODID	MODID information
24	(18)	UNSIGNED	2	HIDDVTHR	Device threshold
26	(1A)	UNSIGNED	2	*	Reserved
28	(1C)	CHARACTER	6	HIDRVDFT	Default recovery actions for non-serial devices.
28	(1C)	UNSIGNED	1	HIDMSGDT(3,2)	Message defaults. First Index: 01=110D message defaults. 02=111D message defaults. 03=112D message defaults. Second Index: 01=Non-recursion. 02=Recursion.
34	(22)	BITSTRING	1	*	Reserved
35	(23)	BITSTRING	1	HIDTBLPM	Box Last Path Mask set by the HOTIO BOX_LP keyword in IECIOSxx.
36	(24)	CHARACTER	68	HIDSCDPT	SCD pointers
36	(24)	ADDRESS	4	HIDHOTQ	Anchor for the Queue of SCD for which HOTIO has been detected.
40	(28)	ADDRESS	4	HIDSCDAN(0:15)	Anchors for SCD blocks. The 2nd byte of the device number (ie 0X00) determines which SCD queue the device will be assigned to. This separation is used only to provide a faster search for a particular SCD
104	(68)	UNSIGNED	1	HIDCPCNT(0:255)	Number of currently hot devices per channel path
360	(168)	CHARACTER	6	HIDSRECD	Default recovery actions for serial devices.
360	(168)	UNSIGNED	1	HIDSMSGD(3,2)	Serial message defaults. First Index: 01=110D message defaults. 02=111D message defaults. 03=112D message defaults. Second Index: 01=Non-recursion. 02=Recursion.
366	(16E)	CHARACTER	2	*	Reserved
368	(170)	CHARACTER	0	HIDEND	

Table 931. Constants for HIDT

Len	Type	Value	Name	Description
	Constants for HIDMSGDT and HIDSMSGD			
1	DECIMAL	2	HIDBOX	Box the device
1	DECIMAL	4	HIDCHPK	Channel path recovery
1	DECIMAL	5	HIDCHPF	Force channel path offline
1	DECIMAL	6	HIDCUK	Control unit recovery. This constant is only valid for HIDSMSGD.
	Constants for first index of HIDMSGDT and HIDSMSGD			

Table 931. Constants for HIDT (continued)

Len	Type	Value	Name	Description
1	DECIMAL	1	MSG110	
1	DECIMAL	2	MSG111	
1	DECIMAL	3	MSG112	
	Constants for second index of HIDMSGDT and HIDSMSGD			
1	DECIMAL	2	RECURSN	
1	DECIMAL	1	NONRECUR	

Table 932. Cross Reference for HIDT

Name	Offset	Hex Tag
HIDCPCNT	68	
HIDDVTHR	18	
HIDEND	170	
HIDHOTQ	24	
HIDMODID	0	
HIDMSGDT	1C	
HIDRVDFT	1C	
HIDSCDAN	28	
HIDSCDPT	24	
HIDSMSGD	168	
HIDSRECD	168	
HIDT	0	
HIDTBLPM	23	

Chapter 231. HISYCTRS Information

HISYCTRS Programming Interface Information

HISYCTRS is a programming interface.

HISYCTRS Heading Information

Common Name:	HIS Counter Constants
Macro ID:	HISYCTRS
DSECT Name:	None
Owning Component:	Hardware Instrumentation Services (SCHIS)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: None Key: None Residency: None
Size:	HISCTR_DUMMY -- X'0001' bytes
Created by:	None
Pointed to by:	None
Serialization:	None
Function:	Provides the equates and meanings for the counter numbers of each event type. The equates match what is returned as counter numbers in a HISSERV REQUEST=QUERY,TYPE=EVENTDATA request.

HISYCTRS mapping

Table 933. Structure HISCTR_DUMMY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HISCTR_DUMMY	Dummy DSECT. Do not use
0	(0)	CHARACTER	1		
0	(0)	X'1'	0	HISCTR_KVERSION1_1	"1" Possible value for HisEvnCtr_CtrVersion1 returned by the HISSERV REQUEST=QUERY,TYPE=EVENT request
The following constants apply only when the first counter version (HisCtr_CtrVersion1) number is HisCtr_kVersion1_1					
0	(0)	X'0'	0	HISCTR_KBASIC1_CYCLE	"0" The total number of CPU cycles, excluding the number of cycles while the CPU is in the wait state
0	(0)	X'1'	0	HISCTR_KBASIC1_INSTR	"1" The total number of instructions executed by the CPU
0	(0)	X'2'	0	HISCTR_KBASIC1_WRT_IL1	"2" The total number of level-1 instruction-cache or unified-cache directory writes.
0	(0)	X'3'	0	HISCTR_KBASIC1_IL1_MISSCYCLE	

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Table 933. Structure HISCTR_DUMMY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"3" The total number of cache penalty cycles for level-1 instruction-cache or unified-cache.
0	(0)	X'4'	0	HISCTR_KBASIC1_WRT_DL1	"4" The total number of level-1 data-cache directory writes.
0	(0)	X'5'	0	HISCTR_KBASIC1_DL1_MISSCYCLE	"5" The total number of cache penalty cycles for level-1 data-cache.
0	(0)	X'0'	0	HISCTR_KPROBLEM1_CYCLE	"0" The total number of CPU cycles when the CPU is in problem state, excluding the number of cycles while the CPU is in the wait state
0	(0)	X'1'	0	HISCTR_KPROBLEM1_INSTR	"1" The total number of instructions executed by the CPU while in the problem state.
0	(0)	X'2'	0	HISCTR_KPROBLEM1_WRT_IL1	"2" The total number of level-1 instruction-cache or unified-cache directory writes while the CPU is in the problem state.
0	(0)	X'3'	0	HISCTR_KPROBLEM1_IL1_MISSCYCLE	"3" The total number of cache penalty cycles for level-1 instruction-cache or unified-cache while the CPU is in the problem state.
0	(0)	X'4'	0	HISCTR_KPROBLEM1_WRT_DL1	"4" The total number of level-1 data-cache directory writes while the CPU is in the problem state.
0	(0)	X'5'	0	HISCTR_KPROBLEM1_DL1_MISSCYCLE	"5" The total number of cache penalty cycles for level-1 data-cache while the CPU is in the problem state.
0	(0)	X'3'	0	HISCTR_KVERSION2_3	"3" Possible value for HisEvnCtr_CtrVersion2 returned by the HISSERV REQUEST=QUERY,TYPE=EVENT request
The following constants apply only when the second counter version (HisCtr_CtrVersion2) number is HisCtr_kVersion2_3					
0	(0)	X'0'	0	HISCTR_KCRYPTO3_PRNG_FUNCTION	"0" The total number of the PRNG functions issued by the CPU.
0	(0)	X'1'	0	HISCTR_KCRYPTO3_PRNG_CYCLE	"1" The total number of CPU cycles when the DEA/AES coprocessor is busy performing the PRNG functions issued by the CPU.
0	(0)	X'2'	0	HISCTR_KCRYPTO3_PRNG_BLOCKEDFUNCTION	

Table 933. Structure HISCTR_DUMMY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"2" The total number of the PRNG functions that are issued by the CPU and are blocked because the DEA/AES coprocessor is busy performing a function issued by another CPU.
0	(0)	X'3'	0	HISCTR_KCRYPTO3_PRNG_BLOCKEDCYCLE	"3" The total number CPU cycles blocked for the PRNG functions issued by the CPU because the DEA/AES coprocessor is busy performing a function issued by another CPU.
0	(0)	X'4'	0	HISCTR_KCRYPTO3_SHA_FUNCTION	"4" The total number of the SHA functions issued by the CPU.
0	(0)	X'5'	0	HISCTR_KCRYPTO3_SHA_CYCLE	"5" The total number of CPU cycles when the SHA coprocessor is busy performing the SHA functions issued by the CPU.
0	(0)	X'6'	0	HISCTR_KCRYPTO3_SHA_BLOCKEDFUNCTION	"6" The total number of the SHA functions that are issued by the CPU and are blocked because the SHA coprocessor is busy performing a function issued by another CPU.
0	(0)	X'7'	0	HISCTR_KCRYPTO3_SHA_BLOCKEDCYCLE	"7" The total number CPU cycles blocked for the SHA functions issued by the CPU because the SHA coprocessor is busy performing a function issued by another CPU.
0	(0)	X'8'	0	HISCTR_KCRYPTO3_DEA_FUNCTION	"8" The total number of the DEA functions issued by the CPU.
0	(0)	X'9'	0	HISCTR_KCRYPTO3_DEA_CYCLE	"9" The total number of CPU cycles when the DEA/AES coprocessor is busy performing the DEA functions issued by the CPU.
0	(0)	X'A'	0	HISCTR_KCRYPTO3_DEA_BLOCKEDFUNCTION	"10" The total number of the DEA functions that are issued by the CPU and are blocked because the DEA/AES coprocessor is busy performing a function issued by another CPU.
0	(0)	X'B'	0	HISCTR_KCRYPTO3_DEA_BLOCKEDCYCLE	

Table 933. Structure HISCTR_DUMMY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"11" The total number CPU cycles blocked for the DEA functions issued by the CPU because the DEA/AES coprocessor is busy performing a function issued by another CPU.
0	(0)	X'C'	0	HISCTR_KCRYPTO3_AES_FUNCTION	
					"12" The total number of the AES functions issued by the CPU.
0	(0)	X'D'	0	HISCTR_KCRYPTO3_AES_CYCLE	"13" The total number of CPU cycles when the DEA/AES coprocessor is busy performing the AES functions issued by the CPU.
0	(0)	X'E'	0	HISCTR_KCRYPTO3_AES_BLOCKEDFUNCTION	
					"14" The total number of the AES functions that are issued by the CPU and are blocked because the DEA/AES coprocessor is busy performing a function issued by another CPU.
0	(0)	X'F'	0	HISCTR_KCRYPTO3_AES_BLOCKEDCYCLE	
					"15" The total number CPU cycles blocked for the AES functions issued by the CPU because the DEA/AES coprocessor is busy performing a function issued by another CPU.
0	(0)	X'0'	0	HISCTR_KEXTENDED3_DTLB1_MISSCYCLE	
					"0" The total number of CPU cycles a level-1 data-TLB miss is in progress.
0	(0)	X'1'	0	HISCTR_KEXTENDED3_ITLB1_MISSCYCLE	
					"1" The total number of CPU cycles a level-1 instruction-TLB miss is in progress.
0	(0)	X'2'	0	HISCTR_KEXTENDED3_WRT_DL1_SRC_IL2	
					"2" The total number of level-1 data-cache directory writes where the returned cache line was sourced from the level-2 instruction-cache.
0	(0)	X'3'	0	HISCTR_KEXTENDED3_WRT_IL1_SRC_IL2	
					"3" The total number of level-1 instruction-cache directory writes where the returned cache line was sourced from the level-2 instruction-cache.
0	(0)	X'4'	0	HISCTR_KEXTENDED3_WRT_DL1_SRC_DL2	
					"4" The total number of level-1 data-cache directory writes where the returned cache line was sourced from the level-2 data-cache.
0	(0)	X'5'	0	HISCTR_KEXTENDED3_WRT_DTLB1	

Table 933. Structure HISCTR_DUMMY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"5" The total number of level-1 data-TLB entry writes.
Index 6: undefined counter					
0	(0)	X'7'	0	HISCTR_KEXTENDED3_WRT_DL1_SRC_MEMORY	"7" The total number of level-1 data-cache directory writes where the installed cache line was sourced from memory that is attached to the same book as the data-cache.
Index 8: undefined counter					
0	(0)	X'9'	0	HISCTR_KEXTENDED3_WRT_IL1_SRC_MEMORY	"9" The total number of level-1 instruction-cache directory writes where the installed cache line was sourced from memory that is attached to the same book as the instruction-cache.
0	(0)	X'A'	0	HISCTR_KEXTENDED3_WRT_DL1_RO_TO_EXCL	"10" The total number of level-1 data-cache directory writes where the line was originally in a Read-Only state in the cache but has been updated to be in the Exclusive state that allows stores to the cache line.
0	(0)	X'B'	0	HISCTR_KEXTENDED3_WRT_DTLB1_1M	"11" The total number of level-1 data-TLB entry writes for a one-megabyte page.
0	(0)	X'C'	0	HISCTR_KEXTENDED3_WRT_ITLB1	"12" The total number of level-1 instruction-TLB entry writes.
0	(0)	X'D'	0	HISCTR_KEXTENDED3_WRT_TLB2_PTE	"13" The total number of level-2 TLB Page Table Entry writes.
0	(0)	X'E'	0	HISCTR_KEXTENDED3_WRT_TLB2_CRSTE_1M	"14" The total number of level-2 TLB Common Region Segment Table Entry writes for a one-megabyte large page translation.
0	(0)	X'F'	0	HISCTR_KEXTENDED3_WRT_TLB2_CRSTE	"15" The total number of level-2 TLB Common Region Segment Table Entry writes.
0	(0)	X'10'	0	HISCTR_KEXTENDED3_WRT_DL1_SRC_L3SAMECHNI	"16" The total number of level-1 data-cache directory writes where the returned cache line was sourced from an On-Chip level-3 cache without intervention.
0	(0)	X'11'	0	HISCTR_KEXTENDED3_WRT_DL1_SRC_L3SAMEBKNI	

Table 933. Structure HISCTR_DUMMY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"17" The total number of level-1 data-cache directory writes where the returned cache line was sourced from an Off-Chip/On-Book level-3 cache without intervention.
0	(0)	X'12'	0	HISCTR_KEXTENDED3_WRT_DL1_SRC_L3DIFFBKNI	"18" The total number of level-1 data-cache directory writes where the returned cache line was sourced from the level-3 cache that is not on the same book without intervention.
0	(0)	X'13'	0	HISCTR_KEXTENDED3_WRT_DL1_SRC_L4SAMEBK	"19" The total number of level-1 data-cache directory writes where the returned cache line was sourced from the level-4 cache that is on the same book.
0	(0)	X'14'	0	HISCTR_KEXTENDED3_WRT_DL1_SRC_L4DIFFBK	"20" The total number of level-1 data-cache directory writes where the returned cache line was sourced from the level-4 cache that is not on the same book.
0	(0)	X'15'	0	HISCTR_KEXTENDED3_TEND_NONCONSTRAINED	"21" The total number of TEND instructions that have completed in a nonconstrained transactional-execution mode.
0	(0)	X'16'	0	HISCTR_KEXTENDED3_WRT_DL1_SRC_L3SAMECHI	"22" The total number of level-1 data-cache directory writes where the returned cache line was sourced from an On-Chip level-3 cache with intervention.
0	(0)	X'17'	0	HISCTR_KEXTENDED3_WRT_DL1_SRC_L3SAMEBKI	"23" The total number of level-1 data-cache directory writes where the returned cache line was sourced from an Off-Chip/On-Book level-3 cache with intervention.
0	(0)	X'18'	0	HISCTR_KEXTENDED3_WRT_DL1_SRC_L3DIFFBKI	"24" The total number of level-1 data-cache directory writes where the returned cache line was sourced from the level-3 cache that is not on the same book with intervention.
0	(0)	X'19'	0	HISCTR_KEXTENDED3_WRT_IL1_SRC_L3SAMECHNI	

Table 933. Structure HISCTR_DUMMY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"25" The total number of level-1 instruction-cache directory writes where the returned cache line was sourced from an On-Chip level-3 cache without intervention.
0	(0)	X'1A'	0	HISCTR_KEXTENDED3_WRT_IL1_SRC_L3SAMEBKNI	"26" The total number of level-1 instruction-cache directory writes where the returned cache line was sourced from an Off-Chip/On-Book level-3 cache without intervention.
0	(0)	X'1B'	0	HISCTR_KEXTENDED3_WRT_IL1_SRC_L3DIFFBKNI	"27" The total number of level-1 instruction-cache directory writes where the returned cache line was sourced from the level-3 cache that is not on the same book without intervention.
0	(0)	X'1C'	0	HISCTR_KEXTENDED3_WRT_IL1_SRC_L4SAMEBK	"28" The total number of level-1 instruction-cache directory writes where the returned cache line was sourced from the level-4 cache that is on the same book.
0	(0)	X'1D'	0	HISCTR_KEXTENDED3_WRT_IL1_SRC_L4DIFFBK	"29" The total number of level-1 instruction-cache directory writes where the returned cache line was sourced from the level-4 cache that is not on the same book.
0	(0)	X'1E'	0	HISCTR_KEXTENDED3_TEND_CONSTRAINED	"30" The total number of TEND instructions that have completed in a constrained transactional-execution mode.
0	(0)	X'1F'	0	HISCTR_KEXTENDED3_WRT_IL1_SRC_L3SAMECHI	"31" The total number of level-1 instruction-cache directory writes where the returned cache line was sourced from an On-Chip level-3 cache with intervention.
0	(0)	X'20'	0	HISCTR_KEXTENDED3_WRT_IL1_SRC_L3SAMEBKI	"32" The total number of level-1 instruction-cache directory writes where the returned cache line was sourced from an Off-Chip/On-Book level-3 cache with intervention.
0	(0)	X'21'	0	HISCTR_KEXTENDED3_WRT_IL1_SRC_L3DIFFBKI	

Table 933. Structure HISCTR_DUMMY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"33" The total number of level-1 instruction-cache directory writes where the returned cache line was sourced from the level-3 cache that is not on the same book with intervention.
Indices 34-48: undefined counters					
0	(0)	X'31'	0	HISCTR_KEXTENDED3_ABORT_NONCONSTRAINED	"49" The total number of transaction aborts that have occurred in a nonconstrained transactional-execution mode.
0	(0)	X'32'	0	HISCTR_KEXTENDED3_ABORT_CONSTRAINEDNS	"50" The total number of transaction aborts that have occurred in a constrained transactional-execution mode and the CPU is not using any special logic to allow the transaction to complete.
0	(0)	X'33'	0	HISCTR_KEXTENDED3_ABORT_CONSTRAINEDS	"51" The total number of transaction aborts that have occurred in a constrained transactional-execution mode and the CPU is not using any special logic to allow the transaction to complete.
Indices 52-55: undefined counters					
0	(0)	X'2'	0	HISCTR_KVERSION2_2	"2" Possible value for HisEvnCtr_CtrVersion2 returned by the HISSERV REQUEST=QUERY,TYPE=EVENT request
The following constants apply only when the second counter version (HisCtr_CtrVersion2) number is HisCtr_kVersion2_2					
0	(0)	X'0'	0	HISCTR_KCRYPTO2_PRNG_FUNCTION	"0" The total number of the PRNG functions issued by the CPU.
0	(0)	X'1'	0	HISCTR_KCRYPTO2_PRNG_CYCLE	"1" The total number of CPU cycles when the DEA/AES coprocessor is busy performing the PRNG functions issued by the CPU.
0	(0)	X'2'	0	HISCTR_KCRYPTO2_PRNG_BLOCKEDFUNCTION	"2" The total number of the PRNG functions that are issued by the CPU and are blocked because the DEA/AES coprocessor is busy performing a function issued by another CPU.
0	(0)	X'3'	0	HISCTR_KCRYPTO2_PRNG_BLOCKEDCYCLE	

Table 933. Structure HISCTR_DUMMY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"3" The total number CPU cycles blocked for the PRNG functions issued by the CPU because the DEA/AES coprocessor is busy performing a function issued by another CPU.
0	(0)	X'4'	0	HISCTR_KCRYPTO2_SHA_FUNCTION	"4" The total number of the SHA functions issued by the CPU.
0	(0)	X'5'	0	HISCTR_KCRYPTO2_SHA_CYCLE	"5" The total number of CPU cycles when the SHA coprocessor is busy performing the SHA functions issued by the CPU.
0	(0)	X'6'	0	HISCTR_KCRYPTO2_SHA_BLOCKEDFUNCTION	"6" The total number of the SHA functions that are issued by the CPU and are blocked because the SHA coprocessor is busy performing a function issued by another CPU.
0	(0)	X'7'	0	HISCTR_KCRYPTO2_SHA_BLOCKEDCYCLE	"7" The total number CPU cycles blocked for the SHA functions issued by the CPU because the SHA coprocessor is busy performing a function issued by another CPU.
0	(0)	X'8'	0	HISCTR_KCRYPTO2_DEA_FUNCTION	"8" The total number of the DEA functions issued by the CPU.
0	(0)	X'9'	0	HISCTR_KCRYPTO2_DEA_CYCLE	"9" The total number of CPU cycles when the DEA/AES coprocessor is busy performing the DEA functions issued by the CPU.
0	(0)	X'A'	0	HISCTR_KCRYPTO2_DEA_BLOCKEDFUNCTION	"10" The total number of the DEA functions that are issued by the CPU and are blocked because the DEA/AES coprocessor is busy performing a function issued by another CPU.
0	(0)	X'B'	0	HISCTR_KCRYPTO2_DEA_BLOCKEDCYCLE	"11" The total number CPU cycles blocked for the DEA functions issued by the CPU because the DEA/AES coprocessor is busy performing a function issued by another CPU.
0	(0)	X'C'	0	HISCTR_KCRYPTO2_AES_FUNCTION	"12" The total number of the AES functions issued by the CPU.

Table 933. Structure HISCTR_DUMMY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'D'	0	HISCTR_KCRYPTO2_AES_CYCLE	"13" The total number of CPU cycles when the DEA/AES coprocessor is busy performing the AES functions issued by the CPU.
0	(0)	X'E'	0	HISCTR_KCRYPTO2_AES_BLOCKEDFUNCTION	"14" The total number of the AES functions that are issued by the CPU and are blocked because the DEA/AES coprocessor is busy performing a function issued by another CPU.
0	(0)	X'F'	0	HISCTR_KCRYPTO2_AES_BLOCKEDCYCLE	"15" The total number CPU cycles blocked for the AES functions issued by the CPU because the DEA/AES coprocessor is busy performing a function issued by another CPU.
0	(0)	X'0'	0	HISCTR_KEXTENDED2_WRT_DL1_SRC_L2	"0" The total number of level-1 data-cache directory writes where the returned cache line was sourced from the level-2 cache.
0	(0)	X'1'	0	HISCTR_KEXTENDED2_WRT_IL1_SRC_L2	"1" The total number of level-1 instruction-cache directory writes where the returned cache line was sourced from the level-2 cache.
0	(0)	X'2'	0	HISCTR_KEXTENDED2_DTLB1_MISSCYCLE	"2" The total number of CPU cycles a level-1 data-TLB miss is in progress.
0	(0)	X'3'	0	HISCTR_KEXTENDED2_ITLB1_MISSCYCLE	"3" The total number of CPU cycles a level-1 instruction-TLB miss is in progress.
0	(0)	X'4'	0	HISCTR_KEXTENDED2_UNDEFINED04	"4"
0	(0)	X'5'	0	HISCTR_KEXTENDED2_WRT_L2	"5" The total number of level-2 stores
0	(0)	X'6'	0	HISCTR_KEXTENDED2_WRT_DL1_SRC_L3DIFFBK	"6" The total number of level-1 data-cache directory writes where the returned cache line was sourced from the level-3 cache that is not on the same book as the data-cache.
0	(0)	X'7'	0	HISCTR_KEXTENDED2_WRT_DL1_SRC_L4SAMEBK	

Table 933. Structure HISCTR_DUMMY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"7" The total number of level-1 data-cache directory writes where the returned cache line was sourced from the level-4 cache that is on the same book as the data-cache.
0	(0)	X'8'	0	HISCTR_KEXTENDED2_WRT_IL1_SRC_L4SAMEBK	"8" The total number of level-1 instruction-cache directory writes where the returned cache line was sourced from the level-4 cache that is on the same book as the instruction-cache.
0	(0)	X'9'	0	HISCTR_KEXTENDED2_WRT_DL1_RO_TO_EXCL	"9" The total number of level-1 data-cache directory writes where the line was originally in a Read-Only state in the cache but has been updated to be in the Exclusive state that allows stores to the cache line.
0	(0)	X'A'	0	HISCTR_KEXTENDED2_WRT_DL1_SRC_L4DIFFBK	"10" The total number of level-1 data-cache directory writes where the returned cache line was sourced from the level-4 cache that is not on the same book as the data-cache.
0	(0)	X'B'	0	HISCTR_KEXTENDED2_WRT_IL1_SRC_L4DIFFBK	"11" The total number of level-1 instruction-cache directory writes where the returned cache line was sourced from the level-4 cache that is not on the same book as the instruction-cache.
0	(0)	X'C'	0	HISCTR_KEXTENDED2_WRT_DTLB1_1M	"12" The total number of level-1 data-TLB entry writes for a one-megabyte page.
0	(0)	X'D'	0	HISCTR_KEXTENDED2_WRT_DL1_SRC_MEMORY	"13" The total number of level-1 data-cache directory writes where the returned cache line was sourced from memory that is attached to the same book as the data-cache.
0	(0)	X'E'	0	HISCTR_KEXTENDED2_WRT_IL1_SRC_MEMORY	"14" The total number of level-1 instruction-cache directory writes where the returned cache line was sourced from memory that is attached to the same book as the instruction-cache.

Table 933. Structure HISCTR_DUMMY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'F'	0	HISCTR_KEXTENDED2_WRT_IL1_SRC_L3DIFFBK	"15" The total number of level-1 instruction-cache directory writes where the returned cache line was sourced from the level-3 cache that is not on the same book as the instruction-cache.
0	(0)	X'10'	0	HISCTR_KEXTENDED2_WRT_DTLB1	"16" The total number of level-1 data-TLB entry writes.
0	(0)	X'11'	0	HISCTR_KEXTENDED2_WRT_ITLB1	"17" The total number of level-1 instruction-TLB entry writes.
0	(0)	X'12'	0	HISCTR_KEXTENDED2_WRT_TLB2_PTE	"18" The total number of level-2 TLB Page Table Entry writes.
0	(0)	X'13'	0	HISCTR_KEXTENDED2_WRT_TLB2_CRSTE_1M	"19" The total number of level-2 TLB Common Region Segment Table Entry writes for a one-megabyte large page translation.
0	(0)	X'14'	0	HISCTR_KEXTENDED2_WRT_TLB2_CRSTE	"20" The total number of level-2 TLB Common Region Segment Table Entry writes.
0	(0)	X'15'	0	HISCTR_KEXTENDED2_UNDEFINED21	"21"
0	(0)	X'16'	0	HISCTR_KEXTENDED2_WRT_DL1_SRC_L3SAMECH	"22" The total number of level-1 data-cache directory writes where the returned cache line was sourced from an On-Chip level-3 cache.
0	(0)	X'17'	0	HISCTR_KEXTENDED2_UNDEFINED23	"23"
0	(0)	X'18'	0	HISCTR_KEXTENDED2_WRT_DL1_SRC_L3SAMEBK	"24" The total number of level-1 data-cache directory writes where the returned cache line was sourced from an Off-Chip/On-Book level-3 cache.
0	(0)	X'19'	0	HISCTR_KEXTENDED2_WRT_IL1_SRC_L3SAMECH	"25" The total number of level-1 instruction-cache directory writes where the returned cache line was sourced from an On-Chip level-3 cache.
0	(0)	X'1A'	0	HISCTR_KEXTENDED2_UNDEFINED26	"26"
0	(0)	X'1B'	0	HISCTR_KEXTENDED2_WRT_IL1_SRC_L3SAMEBK	

Table 933. Structure HISCTR_DUMMY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"27" The total number of level-1 instruction-cache directory writes where the returned cache line was sourced from an Off-Chip/On-Book level-3 cache.
0	(0)	X'1C'	0	HISCTR_KEXTENDED2_UNDEFINED28	"28"
0	(0)	X'1'	0	HISCTR_KVERSION2_1	"1" Possible value for HisEvnCtr_CtrVersion2 returned by the HISSERV REQUEST=QUERY,TYPE=EVENT request
The following constants apply only when the second counter version (HisCtr_CtrVersion2) number is HisCtr_kVersion2_1					
0	(0)	X'0'	0	HISCTR_KCRYPTO1_PRNG_FUNCTION	"0" The total number of the PRNG functions issued by the CPU.
0	(0)	X'1'	0	HISCTR_KCRYPTO1_PRNG_CYCLE	"1" The total number of CPU cycles when the DEA/AES coprocessor is busy performing the PRNG functions issued by the CPU.
0	(0)	X'2'	0	HISCTR_KCRYPTO1_PRNG_BLOCKEDFUNCTION	"2" The total number of the PRNG functions that are issued by the CPU and are blocked because the DEA/AES coprocessor is busy performing a function issued by another CPU.
0	(0)	X'3'	0	HISCTR_KCRYPTO1_PRNG_BLOCKEDCYCLE	"3" The total number CPU cycles blocked for the PRNG functions issued by the CPU because the DEA/AES coprocessor is busy performing a function issued by another CPU.
0	(0)	X'4'	0	HISCTR_KCRYPTO1_SHA_FUNCTION	"4" The total number of the SHA functions issued by the CPU.
0	(0)	X'5'	0	HISCTR_KCRYPTO1_SHA_CYCLE	"5" The total number of CPU cycles when the SHA coprocessor is busy performing the SHA functions issued by the CPU.
0	(0)	X'6'	0	HISCTR_KCRYPTO1_SHA_BLOCKEDFUNCTION	"6" The total number of the SHA functions that are issued by the CPU and are blocked because the SHA coprocessor is busy performing a function issued by another CPU.
0	(0)	X'7'	0	HISCTR_KCRYPTO1_SHA_BLOCKEDCYCLE	

Table 933. Structure HISCTR_DUMMY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"7" The total number CPU cycles blocked for the SHA functions issued by the CPU because the SHA coprocessor is busy performing a function issued by another CPU.
0	(0)	X'8'	0	HISCTR_KCRYPTO1_DEA_FUNCTION	"8" The total number of the DEA functions issued by the CPU.
0	(0)	X'9'	0	HISCTR_KCRYPTO1_DEA_CYCLE	"9" The total number of CPU cycles when the DEA/AES coprocessor is busy performing the DEA functions issued by the CPU.
0	(0)	X'A'	0	HISCTR_KCRYPTO1_DEA_BLOCKEDFUNCTION	"10" The total number of the DEA functions that are issued by the CPU and are blocked because the DEA/AES coprocessor is busy performing a function issued by another CPU.
0	(0)	X'B'	0	HISCTR_KCRYPTO1_DEA_BLOCKEDCYCLE	"11" The total number CPU cycles blocked for the DEA functions issued by the CPU because the DEA/AES coprocessor is busy performing a function issued by another CPU.
0	(0)	X'C'	0	HISCTR_KCRYPTO1_AES_FUNCTION	"12" The total number of the AES functions issued by the CPU.
0	(0)	X'D'	0	HISCTR_KCRYPTO1_AES_CYCLE	"13" The total number of CPU cycles when the DEA/AES coprocessor is busy performing the AES functions issued by the CPU.
0	(0)	X'E'	0	HISCTR_KCRYPTO1_AES_BLOCKEDFUNCTION	"14" The total number of the AES functions that are issued by the CPU and are blocked because the DEA/AES coprocessor is busy performing a function issued by another CPU.
0	(0)	X'F'	0	HISCTR_KCRYPTO1_AES_BLOCKEDCYCLE	"15" The total number CPU cycles blocked for the AES functions issued by the CPU because the DEA/AES coprocessor is busy performing a function issued by another CPU.
0	(0)	X'0'	0	HISCTR_KEXTENDED1_WRT_IL1_SRC_L2	

Table 933. Structure HISCTR_DUMMY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"0" The total number of level-1 instruction-cache directory writes where the returned cache line was sourced from the level-2 cache.
0	(0)	X'1'	0	HISCTR_KEXTENDED1_WRT_DL1_SRC_L2	"1" The total number of level-1 data-cache directory writes where the returned cache line was sourced from the level-2 cache.
0	(0)	X'2'	0	HISCTR_KEXTENDED1_WRT_IL1_SRC_L3SAMEBK	"2" The total number of level-1 instruction-cache directory writes where the returned cache line was sourced from the level-3 cache that is on the same book as the instruction-cache.
0	(0)	X'3'	0	HISCTR_KEXTENDED1_WRT_DL1_SRC_L3SAMEBK	"3" The total number of level-1 data-cache directory writes where the returned cache line was sourced from the level-3 cache that is on the same book as the data-cache.
0	(0)	X'4'	0	HISCTR_KEXTENDED1_WRT_IL1_SRC_L3DIFFBK	"4" The total number of level-1 instruction-cache directory writes where the returned cache line was sourced from the level-3 cache that is not on the same book as the instruction-cache.
0	(0)	X'5'	0	HISCTR_KEXTENDED1_WRT_DL1_SRC_L3DIFFBK	"5" The total number of level-1 data-cache directory writes where the returned cache line was sourced from the level-3 cache that is not on the same book as the data-cache.
0	(0)	X'6'	0	HISCTR_KEXTENDED1_WRT_DL1_SRC_MEMORY	"6" The total number of level-1 data-cache directory writes where the returned cache line was sourced from memory that is attached to the same book as the data-cache.
0	(0)	X'7'	0	HISCTR_KEXTENDED1_WRT_IL1_SRC_MEMORY	"7" The total number of level-1 instruction-cache directory writes where the returned cache line was sourced from memory that is attached to the same book as the instruction-cache.

Table 933. Structure HISCTR_DUMMY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'8'	0	HISCTR_KEXTENDED1_WRT_DL1_RO_TO_EXCL	"8" The total number of level-1 data-cache directory writes where the line was originally in a Read-Only state in the cache but has been updated to be in the Exclusive state that allows stores to the cache line.
0	(0)	X'9'	0	HISCTR_KEXTENDED1_INVALIDATE_IL1_LINE	"9" The total number of times a level-1 instruction-cache has been invalidated by a store on the same CPU as the level-1 instruction-cache
0	(0)	X'A'	0	HISCTR_KEXTENDED1_WRT_ITLB1	"10" The total number of level-1 instruction-TLB entry writes.
0	(0)	X'B'	0	HISCTR_KEXTENDED1_WRT_DTLB1	"11" The total number of level-1 data-TLB entry writes.
0	(0)	X'C'	0	HISCTR_KEXTENDED1_WRT_TLB2_PTE	"12" The total number of level-2 TLB Page Table Entry writes.
0	(0)	X'D'	0	HISCTR_KEXTENDED1_WRT_TLB2_CRSTE	"13" The total number of level-2 TLB Common Region Segment Table Entry writes.
0	(0)	X'E'	0	HISCTR_KEXTENDED1_WRT_TLB2_CRSTE_1M	"14" The total number of level-2 TLB Common Region Segment Table Entry writes for a one-megabyte large page translation.
0	(0)	X'F'	0	HISCTR_KEXTENDED1_UNDEFINED15	"15"
0	(0)	X'10'	0	HISCTR_KEXTENDED1_UNDEFINED16	"16"
0	(0)	X'11'	0	HISCTR_KEXTENDED1_ITLB1_MISSCYCLE	"17" The total number of CPU cycles a level-1 instruction-TLB miss is in progress.
0	(0)	X'12'	0	HISCTR_KEXTENDED1_DTLB1_MISSCYCLE	"18" The total number of CPU cycles a level-1 data-TLB miss is in progress.
0	(0)	X'13'	0	HISCTR_KEXTENDED1_WRT_L2	"19" The total number of level-2 stores
0	(0)	X'14'	0	HISCTR_KEXTENDED1_UNDEFINED20	"20"
0	(0)	X'15'	0	HISCTR_KEXTENDED1_UNDEFINED21	"21"
0	(0)	X'16'	0	HISCTR_KEXTENDED1_UNDEFINED22	"22"
0	(0)	X'17'	0	HISCTR_KEXTENDED1_UNDEFINED23	"23"

Table 933. Structure HISCTR_DUMMY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'1'	0	HISCTR_DUMMY_LEN	"*-HisCtr_Dummy"

Table 934. Cross Reference for HISYCTRS

Name	Offset	Hex Tag
HISCTR_DUMMY	0	
HISCTR_DUMMY_LEN	0	1
HISCTR_KBASIC1_CYCLE	0	0
HISCTR_KBASIC1_DL1_MISSCYCLE	0	5
HISCTR_KBASIC1_IL1_MISSCYCLE	0	3
HISCTR_KBASIC1_INSTR	0	1
HISCTR_KBASIC1_WRT_DL1	0	4
HISCTR_KBASIC1_WRT_IL1	0	2
HISCTR_KCRYPTO1_AES_BLOCKEDCYCLE	0	F
HISCTR_KCRYPTO1_AES_BLOCKEDFUNCTION	0	E
HISCTR_KCRYPTO1_AES_CYCLE	0	D
HISCTR_KCRYPTO1_AES_FUNCTION	0	C
HISCTR_KCRYPTO1_DEA_BLOCKEDCYCLE	0	B
HISCTR_KCRYPTO1_DEA_BLOCKEDFUNCTION	0	A
HISCTR_KCRYPTO1_DEA_CYCLE	0	9
HISCTR_KCRYPTO1_DEA_FUNCTION	0	8
HISCTR_KCRYPTO1_PRNG_BLOCKEDCYCLE	0	3
HISCTR_KCRYPTO1_PRNG_BLOCKEDFUNCTION	0	2
HISCTR_KCRYPTO1_PRNG_CYCLE	0	1
HISCTR_KCRYPTO1_PRNG_FUNCTION	0	0
HISCTR_KCRYPTO1_SHA_BLOCKEDCYCLE	0	7
HISCTR_KCRYPTO1_SHA_BLOCKEDFUNCTION	0	6
HISCTR_KCRYPTO1_SHA_CYCLE	0	5
HISCTR_KCRYPTO1_SHA_FUNCTION	0	4
HISCTR_KCRYPTO2_AES_BLOCKEDCYCLE	0	F
HISCTR_KCRYPTO2_AES_BLOCKEDFUNCTION	0	E
HISCTR_KCRYPTO2_AES_CYCLE	0	D
HISCTR_KCRYPTO2_AES_FUNCTION	0	C
HISCTR_KCRYPTO2_DEA_BLOCKEDCYCLE	0	B
HISCTR_KCRYPTO2_DEA_BLOCKEDFUNCTION	0	A
HISCTR_KCRYPTO2_DEA_CYCLE	0	9
HISCTR_KCRYPTO2_DEA_FUNCTION	0	8
HISCTR_KCRYPTO2_PRNG_BLOCKEDCYCLE	0	3
HISCTR_KCRYPTO2_PRNG_BLOCKEDFUNCTION	0	2
HISCTR_KCRYPTO2_PRNG_CYCLE	0	1
HISCTR_KCRYPTO2_PRNG_FUNCTION	0	0
HISCTR_KCRYPTO2_SHA_BLOCKEDCYCLE	0	7
HISCTR_KCRYPTO2_SHA_BLOCKEDFUNCTION	0	6
HISCTR_KCRYPTO2_SHA_CYCLE	0	5
HISCTR_KCRYPTO2_SHA_FUNCTION	0	4
HISCTR_KCRYPTO3_AES_BLOCKEDCYCLE	0	F
HISCTR_KCRYPTO3_AES_BLOCKEDFUNCTION	0	E
HISCTR_KCRYPTO3_AES_CYCLE	0	D

Table 934. Cross Reference for HISYCTRS (continued)

Name	Offset	Hex Tag
HISCTR_KCRYPTO3_AES_FUNCTION	0	C
HISCTR_KCRYPTO3_DEA_BLOCKEDCYCLE	0	B
HISCTR_KCRYPTO3_DEA_BLOCKEDFUNCTION	0	A
HISCTR_KCRYPTO3_DEA_CYCLE	0	9
HISCTR_KCRYPTO3_DEA_FUNCTION	0	8
HISCTR_KCRYPTO3_PRNG_BLOCKEDCYCLE	0	3
HISCTR_KCRYPTO3_PRNG_BLOCKEDFUNCTION	0	2
HISCTR_KCRYPTO3_PRNG_CYCLE	0	1
HISCTR_KCRYPTO3_PRNG_FUNCTION	0	0
HISCTR_KCRYPTO3_SHA_BLOCKEDCYCLE	0	7
HISCTR_KCRYPTO3_SHA_BLOCKEDFUNCTION	0	6
HISCTR_KCRYPTO3_SHA_CYCLE	0	5
HISCTR_KCRYPTO3_SHA_FUNCTION	0	4
HISCTR_KEXTENDED1_DTLB1_MISSCYCLE	0	12
HISCTR_KEXTENDED1_INVALIDATE_IL1_LINE	0	9
HISCTR_KEXTENDED1_ITLB1_MISSCYCLE	0	11
HISCTR_KEXTENDED1_UNDEFINED15	0	F
HISCTR_KEXTENDED1_UNDEFINED16	0	10
HISCTR_KEXTENDED1_UNDEFINED20	0	14
HISCTR_KEXTENDED1_UNDEFINED21	0	15
HISCTR_KEXTENDED1_UNDEFINED22	0	16
HISCTR_KEXTENDED1_UNDEFINED23	0	17
HISCTR_KEXTENDED1_WRT_DL1_RO_TO_EXCL	0	8
HISCTR_KEXTENDED1_WRT_DL1_SRC_L2	0	1
HISCTR_KEXTENDED1_WRT_DL1_SRC_L3DIFFBK	0	5
HISCTR_KEXTENDED1_WRT_DL1_SRC_L3SAMEBK	0	3
HISCTR_KEXTENDED1_WRT_DL1_SRC_MEMORY	0	6
HISCTR_KEXTENDED1_WRT_DTLB1	0	B
HISCTR_KEXTENDED1_WRT_IL1_SRC_L2	0	0
HISCTR_KEXTENDED1_WRT_IL1_SRC_L3DIFFBK	0	4
HISCTR_KEXTENDED1_WRT_IL1_SRC_L3SAMEBK	0	2
HISCTR_KEXTENDED1_WRT_IL1_SRC_MEMORY	0	7
HISCTR_KEXTENDED1_WRT_ITLB1	0	A
HISCTR_KEXTENDED1_WRT_L2	0	13
HISCTR_KEXTENDED1_WRT_TLB2_CRSTE	0	D
HISCTR_KEXTENDED1_WRT_TLB2_CRSTE_1M	0	E
HISCTR_KEXTENDED1_WRT_TLB2_PTE	0	C
HISCTR_KEXTENDED2_DTLB1_MISSCYCLE	0	2
HISCTR_KEXTENDED2_ITLB1_MISSCYCLE	0	3
HISCTR_KEXTENDED2_UNDEFINED04	0	4
HISCTR_KEXTENDED2_UNDEFINED21	0	15
HISCTR_KEXTENDED2_UNDEFINED23	0	17
HISCTR_KEXTENDED2_UNDEFINED26	0	1A
HISCTR_KEXTENDED2_UNDEFINED28	0	1C
HISCTR_KEXTENDED2_WRT_DL1_RO_TO_EXCL	0	9
HISCTR_KEXTENDED2_WRT_DL1_SRC_L2	0	0
HISCTR_KEXTENDED2_WRT_DL1_SRC_L3DIFFBK	0	6
HISCTR_KEXTENDED2_WRT_DL1_SRC_L3SAMEBK	0	18
HISCTR_KEXTENDED2_WRT_DL1_SRC_L3SAMECH	0	16

Table 934. Cross Reference for HISYCTRS (continued)

Name	Offset	Hex Tag
HISCTR_KEXTENDED2_WRT_DL1_SRC_L4DIFFBK	0	A
HISCTR_KEXTENDED2_WRT_DL1_SRC_L4SAMEBK	0	7
HISCTR_KEXTENDED2_WRT_DL1_SRC_MEMORY	0	D
HISCTR_KEXTENDED2_WRT_DTLB1	0	10
HISCTR_KEXTENDED2_WRT_DTLB1_1M	0	C
HISCTR_KEXTENDED2_WRT_IL1_SRC_L2	0	1
HISCTR_KEXTENDED2_WRT_IL1_SRC_L3DIFFBK	0	F
HISCTR_KEXTENDED2_WRT_IL1_SRC_L3SAMEBK	0	1B
HISCTR_KEXTENDED2_WRT_IL1_SRC_L3SAMECH	0	19
HISCTR_KEXTENDED2_WRT_IL1_SRC_L4DIFFBK	0	B
HISCTR_KEXTENDED2_WRT_IL1_SRC_L4SAMEBK	0	8
HISCTR_KEXTENDED2_WRT_IL1_SRC_MEMORY	0	E
HISCTR_KEXTENDED2_WRT_ITLB1	0	11
HISCTR_KEXTENDED2_WRT_L2	0	5
HISCTR_KEXTENDED2_WRT_TLB2_CRSTE	0	14
HISCTR_KEXTENDED2_WRT_TLB2_CRSTE_1M	0	13
HISCTR_KEXTENDED2_WRT_TLB2_PTE	0	12
HISCTR_KEXTENDED3_ABORT_CONSTRAINEDNS	0	32
HISCTR_KEXTENDED3_ABORT_CONSTRAINEDS	0	33
HISCTR_KEXTENDED3_ABORT_NONCONSTRAINED	0	31
HISCTR_KEXTENDED3_DTLB1_MISSCYCLE	0	0
HISCTR_KEXTENDED3_ITLB1_MISSCYCLE	0	1
HISCTR_KEXTENDED3_TEND_CONSTRAINED	0	1E
HISCTR_KEXTENDED3_TEND_NONCONSTRAINED	0	15
HISCTR_KEXTENDED3_WRT_DL1_RO_TO_EXCL	0	A
HISCTR_KEXTENDED3_WRT_DL1_SRC_DL2	0	4
HISCTR_KEXTENDED3_WRT_DL1_SRC_IL2	0	2
HISCTR_KEXTENDED3_WRT_DL1_SRC_L3DIFFBKI	0	18
HISCTR_KEXTENDED3_WRT_DL1_SRC_L3DIFFBKNI	0	12
HISCTR_KEXTENDED3_WRT_DL1_SRC_L3SAMEBKI	0	17
HISCTR_KEXTENDED3_WRT_DL1_SRC_L3SAMEBKNI	0	11
HISCTR_KEXTENDED3_WRT_DL1_SRC_L3SAMECHI	0	16
HISCTR_KEXTENDED3_WRT_DL1_SRC_L3SAMECHNI	0	10
HISCTR_KEXTENDED3_WRT_DL1_SRC_L4DIFFBK	0	14
HISCTR_KEXTENDED3_WRT_DL1_SRC_L4SAMEBK	0	13
HISCTR_KEXTENDED3_WRT_DL1_SRC_MEMORY	0	7
HISCTR_KEXTENDED3_WRT_DTLB1	0	5
HISCTR_KEXTENDED3_WRT_DTLB1_1M	0	B
HISCTR_KEXTENDED3_WRT_IL1_SRC_IL2	0	3
HISCTR_KEXTENDED3_WRT_IL1_SRC_L3DIFFBKI	0	21
HISCTR_KEXTENDED3_WRT_IL1_SRC_L3DIFFBKNI	0	1B
HISCTR_KEXTENDED3_WRT_IL1_SRC_L3SAMEBKI	0	20
HISCTR_KEXTENDED3_WRT_IL1_SRC_L3SAMEBKNI	0	1A
HISCTR_KEXTENDED3_WRT_IL1_SRC_L3SAMECHI	0	1F
HISCTR_KEXTENDED3_WRT_IL1_SRC_L3SAMECHNI	0	19
HISCTR_KEXTENDED3_WRT_IL1_SRC_L4DIFFBK	0	1D
HISCTR_KEXTENDED3_WRT_IL1_SRC_L4SAMEBK	0	1C
HISCTR_KEXTENDED3_WRT_IL1_SRC_MEMORY	0	9
HISCTR_KEXTENDED3_WRT_ITLB1	0	C

Table 934. Cross Reference for HISYCTRS (continued)

Name	Offset	Hex Tag
HISCTR_KEXTENDED3_WRT_TLB2_CRSTE	0	F
HISCTR_KEXTENDED3_WRT_TLB2_CRSTE_1M	0	E
HISCTR_KEXTENDED3_WRT_TLB2_PTE	0	D
HISCTR_KPROBLEM1_CYCLE	0	0
HISCTR_KPROBLEM1_DL1_MISSCYCLE	0	5
HISCTR_KPROBLEM1_IL1_MISSCYCLE	0	3
HISCTR_KPROBLEM1_INSTR	0	1
HISCTR_KPROBLEM1_WRT_DL1	0	4
HISCTR_KPROBLEM1_WRT_IL1	0	2
HISCTR_KVERSION1_1	0	1
HISCTR_KVERSION2_1	0	1
HISCTR_KVERSION2_2	0	2
HISCTR_KVERSION2_3	0	3

Chapter 232. HISYMT Information

HISYMT Programming Interface Information

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

- HisMT_Hdr_CbfAN_Desc
- HisMT_Hdr_CbfClass_Desc
- HisMT_Hdr_PreservableAreaLength
- HisMT_Hdr_PreservableAreaOffset
- HisMT_Hdr_SystemAreaLength
- HisMT_Hdr_SystemAreaOffset

HISYMT Heading Information

Common Name:	HISMT Service Interval Area
Macro ID:	HISYMT
DSECT Name:	HISMT_Hdr HISMT_Desc HISMT_Entry
Owning Component:	Hardware Instrumentation Services (SCHIS)
Eye-Catcher ID:	HISMT Offset: 0 Length: 8
Storage Attributes:	Subpool: Caller chosen, must be DREF or FIXED storage Key: Caller chosen Residency: Caller's primary address space
Size:	HisMT_Hdr -- X'00B8' bytes HisMT_Desc -- X'0010' bytes HisMT_Entry -- X'0004' bytes
Created by:	Invokers of HISMT service.
Pointed to by:	N/A
Serialization:	None
Function:	Maps the HISMT service's interval area (INTVAREA). It also provides constants for HISMT return and reason codes.

HISYMT mapping

Table 935. Structure HISMT_HDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HISMT_HDR	
0	(0)	CHARACTER	8	HISMT_HDR_EYECATCHER	Will be 'HISMT ' after the first HISMT call.
0	(0)	CHARACTER	1	HISMT_HDR_EYECATCHERFIRSTCHAR	On the first HISMT call for a new interval area, this field must contain binary zeroes.
8	(8)	SIGNED	4	HISMT_HDR_LENGTHREQUIRED	Length of storage required for the request to complete successfully.

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Table 935. Structure HISMT_HDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	BITSTRING	1	HISMT_HDR_FLAGS	Flags for config change reasons. One or more of these flags will be ON if reason code returned is HisMT_kRsnWarn_ConfigChange. For all other return and reason codes, these flags will be turned OFF.
Bit definitions:					
		1...		HISMT_HDR_SPEEDCHANGED_CPENGINE	"X'80'"
		.1..		HISMT_HDR_SPEEDCHANGED_SPECIALTYENGINE	"X'40'"
		..1.		HISMT_HDR_MTMODECHANGED_CP	"X'20'"
		...1		HISMT_HDR_MTMODECHANGED_ZIIP	"X'10'"
		.... 1...		HISMT_HDR_MTMODECHANGED_ZAAP	"X'08'"
13	(D)	CHARACTER	3	HISMT_HDR_RSV00D	Reserved
16	(10)	CHARACTER	8	HISMT_HDR_TIMESTAMP	Timestamp, the time (in STCK format) when the system captured the data.
24	(18)	CHARACTER	16	HISMT_HDR_PRODCLASS_DESC	Locates array of productivity values for each processor class. This storage is mapped by DSECT HisMT_Desc.
40	(28)	CHARACTER	16	HISMT_HDR_PRODCORE_DESC	Locates array of productivity values for each core. This storage is mapped by DSECT HisMT_Desc.
56	(38)	CHARACTER	16	HISMT_HDR_CAPCLASS_DESC	Locates array of capacity factor values for each processor class. This storage is mapped by DSECT HisMT_Desc.
72	(48)	CHARACTER	16	HISMT_HDR_MAXCAPCLASS_DESC	Locates array of max capacity factor values for each processor class. This storage is mapped by DSECT HisMT_Desc.
88	(58)	CHARACTER	16	HISMT_HDR_CBFCLASS_DESC	Locates array of CBF values for each processor class. This storage is mapped by DSECT HisMT_Desc. This field is for IBM use only.
104	(68)	CHARACTER	16	HISMT_HDR_CBFAN_DESC	Locates array of charge back factor values for each AN. This storage is mapped by DSECT HisMT_Desc. This field is for IBM use only.
120	(78)	CHARACTER	16	HISMT_HDR_COREBUSYTIME_DESC	Locates array of core busy time values for each core. This storage is mapped by DSECT HisMT_Desc.

Table 935. Structure HISMT_HDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
136	(88)	CHARACTER	16	HISMT_HDR_AVGTDCLASS_DESC	Locates array of average thread density values for each processor class. This storage is mapped by DSECT HisMT_Desc.
PI fields can be added here since fields below this comment are not PI.					
152	(98)	SIGNED	4	HISMT_HDR_PRESERVABLEAREAOFFSET	Offset to the preservable work area relative to the start of HisMT_Hdr. This field is for IBM use only.
156	(9C)	SIGNED	4	HISMT_HDR_PRESERVABLEAREALENGTH	The length of the preservable work area. This field is for IBM use only.
160	(A0)	SIGNED	4	HISMT_HDR_SYSTEMAREAOFFSET	Offset to the system work area relative to the start of HisMT_Hdr. This field is for IBM use only.
164	(A4)	SIGNED	4	HISMT_HDR_SYSTEMAREALENGTH	The length of the system work area. This field is for IBM use only.
168	(A8)	CHARACTER	16	HISMT_HDR_RSV0A8	Reserved
184	(B8)	CHARACTER	1	HISMT_HDR_END(0)	
184	(B8)	X'B8'	0	HISMT_HDR_LEN	"*-HisMT_Hdr"

Table 936. Structure HISMT_DESC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HISMT_DESC	This DSECT describes a metric array. Each entry has a length HisMT_Desc_EntryLength. For granularity level: - Procclass, the first entry represents the value for CP, the second entry for zAAP and the third entry for zIIP. - AN, the first entry represents the value for AN 1, the second entry for AN 2, etc. (For IBM use only) - Core, the first entry represents the value for core 0, the second entry for core 1, etc.
0	(0)	SIGNED	4	HISMT_DESC_OFFSET	Offset to the array relative to the start of the interval area.
4	(4)	SIGNED	4	HISMT_DESC_COUNT	The number of entries in the array.

Table 936. Structure HISMT_DESC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	SIGNED	4	HISMT_DESC_ENTRYLENGTH	The length of a single entry in the array. Use this when iterating through the entries instead of compile time lengths. The offset to the nth entry from the start of the array is ((n-1)*HisMT_D esc_EntryLength).
12	(C)	CHARACTER	4	HISMT_DESC_RSV00C	Reserved
16	(10)	CHARACTER	1	HISMT_DESC_END(0)	
16	(10)	X'10'	0	HISMT_DESC_LEN	"*-HisMT_Desc"

Table 937. Structure HISMT_ENTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HISMT_ENTRY	This DSECT describes an entry in the array. For HISMT CoreBusyTime(YES), each entry contains the requested core LPAR busy time in milliseconds. For all other HISMT metrics, each entry contains the requested MT metric value that represents a numerator with a constant denominator of 1024. For instance, if an entry has a value of 1331, it represents 1331/1024 = 1.30. If the service cannot calculate the requested HISMT metric, the entry contains HisMT_Entry_kNoData. See HISMT macro metric keywords for more information.
0	(0)	SIGNED	4	HISMT_ENTRY_METRIC	Metric value requested
4	(4)	CHARACTER	1	HISMT_ENTRY_END(0)	
HISMT Constants					
4	(4)	X'C9E2D4'	0	HISMT_HDR_KEYECATCHER_0TO3	"C'HISM'" This is the first 4-byte segment of an 8-byte constant.
4	(4)	X'404040'	0	HISMT_HDR_KEYECATCHER_4TO7	"C'T '" This is the second 4-byte segment of an 8-byte constant.
4	(4)	X'B8'	0	HISMT_HDR_KLENGTH	"184" Length of the header block for the interval area.
4	(4)	X'400'	0	HISMT_ENTRY_KMETRICFACTOR	"1024" Constant denominator for all requested MT metric values. To get a decimal representation of the returned MT metric, divide it by this constant value. See comments for HisMT_Entry.
4	(4)	X'A'	0	HISMT_ENTRY_KMETRICSHIFT	"10" Constant shift value for all requested MT metric values.

Table 937. Structure HISMT_ENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	0	HISMT_ENTRY_KNODATA	"X'FFFFFFFF'" Constant indicating requested metric unavailable. See comments for HISMT_Entry.
HISMT Return/Reason Codes o It is guaranteed that no reason code will be reused (i.e. the same reason code will not be used for more than one return code). o Note carefully that bits 0-15 of the reason code may contain component-diagnostic data and must not be assumed to be 0.					
4	(4)	X'FFFF'	0	HISMT_KRSNCODEMASK	"65535" Use this mask to isolate the non component-diagnostic portion of the reason code.
HISMTReturn and Reason Code definitions					
	....			HISMT_KRETOK	"X'00000000'" Meaning: HISMT request completed successfully. Action: None required.
	.... .1..			HISMT_KRETWARN	"X'00000004'" Meaning: Warning Action: HISMT request completed with a warning.
4	(4)	BITSTRING	0	HISMT_KRSNWARN_INTVAREASMALL	"X'00000401'" Meaning: The interval area provided was large enough to hold the minimum amount of data required for the request, but not large enough to hold all of the data requested. Action: Obtain a larger interval area using the HisMT_Hdr_LengthRequired field returned in the request's INTVAREA. Then call the service with the newly allocated interval area. (See Programming Requirements for the protocol for passing a new interval area that is at least HisMT_Hdr_LengthRequired bytes long)
4	(4)	BITSTRING	0	HISMT_KRSNWARN_CONFIGCHANGED	"X'00000402'" Meaning: The system configuration was changed during the interval between the last HISMT call and the current HISMT call. The metric values returned in the interval area is questionable since the config was not consistent during the interval. See field HisMT_Hdr_Flags in the interval area header for what has changed. Action: The metric values returned from this call can be ignored.

Table 937. Structure HISMT_ENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		HISMT_KRETUSER	"X'00000008'" Meaning: HISMT request failed due to a user error. Action: Refer to the action provided with the specific reason code.
4	(4)	BITSTRING	0	HISMT_KRSNUSER_INVVERSION	"X'00000801'" Meaning: The version for the parameter list specified is not valid. Action: Check for possible storage overlay.
4	(4)	BITSTRING	0	HISMT_KRSNUSER_INCONSISTENTINTVAREA	"X'00000802'" Meaning: The HISMT call for this interval does not match the previous HISMT call for the provided interval area. Action: If this is the first invocation for this interval area, follow the protocol described in the HISMT service's Programming Requirements section to provide an interval area. If this is a subsequent call to HISMT for the interval area, make sure all subsequent calls to HISMT with that interval area request the same data.
4	(4)	BITSTRING	0	HISMT_KRSNUSER_INTVLENTOOSMALL	"X'00000803'" Meaning: The interval area is less than HisMT_Hdr_kLength bytes. Action: Ensure the interval area length and the storage provided for the interval area is at least HisMT_Hdr_kLength bytes long. (See Programming Requirements for the protocol for obtaining big enough storage to contain the requested MT metrics)
4	(4)	BITSTRING	0	HISMT_KRSNUSER_UNKNOWNDATAININTVAREA	"X'00000804'" Meaning: The interval area for this HISMT call contains some unexpected data. A storage overlay may have occured. Action: Issue HISMT request with a new interval area.
4	(4)	BITSTRING	0	HISMT_KRSNUSER_INTVAREANOTALIGNED	"X'00000805'" Meaning: The interval area provided for this HISMT call is not on a doubleword boundary. Action: Make sure that the interval area is on a doubleword boundary.
4	(4)	BITSTRING	0	HISMT_KRSNUSER_INTVLENNOT8BYTEMULTIPLE	

Table 937. Structure HISMT_ENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000806'" Meaning: The interval area length provided for this HISMT call is not a multiple of 8-bytes. Action: Provide an interval area whose length is an 8-byte multiple.
4	(4)	BITSTRING	0	HISMT_KRSNUSER_UNKNOWNEYECATCHER	"X'00000807'" Meaning: The eye catcher in the interval area for this HISMT call is unexpected. A storage overlay may have occured. Action: Issue a HISMT request with a new interval area. The first byte must contain binary zeroes.
		...1		HISMT_KRETUNKNOWN	"X'00000010'" Meaning: Unexpected failure. Action: Refer to the action provided with the specific reason code.
4	(4)	BITSTRING	0	HISMT_KRSNUNKNOWN_UNKNOWN	"X'00001001'" Meaning: Unexpected failure. The state of the request is unpredictable. Action: Contact your system programmer.
4	(4)	X'4'	0	HISMT_ENTRY_LEN	"*-HisMT_Entry"

Table 938. Cross Reference for HISYMT

Name	Offset	Hex Tag
HISMT_DESC	0	
HISMT_DESC_COUNT	4	
HISMT_DESC_END	10	
HISMT_DESC_ENTRYLENGTH	8	
HISMT_DESC_LEN	10	10
HISMT_DESC_OFFSET	0	
HISMT_DESC_RSV00C	C	
HISMT_ENTRY	0	
HISMT_ENTRY_END	4	
HISMT_ENTRY_KMETRICFACTOR	4	400
HISMT_ENTRY_KMETRICSHIFT	4	A
HISMT_ENTRY_KNODATA	4	FFFFFF
HISMT_ENTRY_LEN	4	4
HISMT_ENTRY_METRIC	0	
HISMT_HDR	0	
HISMT_HDR_AVGTDCLASS_DESC	88	
HISMT_HDR_CAPCLASS_DESC	38	
HISMT_HDR_CBFAN_DESC	68	
HISMT_HDR_CBFCLASS_DESC	58	
HISMT_HDR_COREBUSYTIME_DESC	78	
HISMT_HDR_END	B8	
HISMT_HDR_EYECATCHER	0	
HISMT_HDR_EYECATCHERFIRSTCHAR	0	

Table 938. Cross Reference for HISYMT (continued)

Name	Offset	Hex Tag
HISMT_HDR_FLAGS	C	
HISMT_HDR_KEYECATCHER_0TO3	4	C9E2D4
HISMT_HDR_KEYECATCHER_4TO7	4	404040
HISMT_HDR_KLENGTH	4	B8
HISMT_HDR_LEN	B8	B8
HISMT_HDR_LENGTHREQUIRED	8	
HISMT_HDR_MAXCAPCLASS_DESC	48	
HISMT_HDR_MTMODECHANGED_CP	C	20
HISMT_HDR_MTMODECHANGED_ZAAP	C	8
HISMT_HDR_MTMODECHANGED_ZIIP	C	10
HISMT_HDR_PRESERVABLEAREALENGTH	9C	
HISMT_HDR_PRESERVABLEAREAOFFSET	98	
HISMT_HDR_PRODCLASS_DESC	18	
HISMT_HDR_PRODCORE_DESC	28	
HISMT_HDR_RSV0A8	A8	
HISMT_HDR_RSV00D	D	
HISMT_HDR_SPEEDCHANGED_CPENGINE	C	80
HISMT_HDR_SPEEDCHANGED_SPECIALTYENGINE	C	40
HISMT_HDR_SYSTEMAREALENGTH	A4	
HISMT_HDR_SYSTEMAREAOFFSET	A0	
HISMT_HDR_TIMESTAMP	10	
HISMT_KRETOK	4	0
HISMT_KRETUNKNOWN	4	10
HISMT_KRETUSER	4	8
HISMT_KRETWARN	4	4
HISMT_KRSNCODEMASK	4	FFFF
HISMT_KRSNUNKNOWN_UNKNOWN	4	1001
HISMT_KRSNUSER_INCONSISTENTINTVAREA	4	802
HISMT_KRSNUSER_INTVAREANOTALIGNED	4	805
HISMT_KRSNUSER_INTVLENNOT8BYTEMULTIPLE	4	806
HISMT_KRSNUSER_INTVLENTOOSMALL	4	803
HISMT_KRSNUSER_INVVERSION	4	801
HISMT_KRSNUSER_UNKNOWNDATAININTVAREA	4	804
HISMT_KRSNUSER_UNKNOWNEYECATCHER	4	807
HISMT_KRSNWARN_CONFIGCHANGED	4	402
HISMT_KRSNWARN_INTVAREASMALL	4	401

Chapter 233. HMAA Information

HMAA Programming Interface Information

HMAA is a programming interface.

HMAA Heading Information

Common Name:	Hiperbatch Monitor Answer Area
Macro ID:	COFZHMAA
DSECT Name:	HMAA, HMAADSNB, HMAARNG, HMAATRKR
Owning Component:	Virtual Lookaside Facility (SC164)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 0 Key: 8 Residency: Above 16MB in central/virtual storage
Size:	80 bytes for HMAA, 112 bytes for each HMAADSNB 8 bytes for each HMAARNG 36 bytes for each HMAATRKR
Created by:	The HMAA is created by the requestor of the Hiperbatch Monitor data collector (COFDSTAT). The storage for the HMAA may reside anywhere in private or common addressable storage.
Pointed to by:	HMPANSWR
Serialization:	None required.
Function:	The HMAA is a block of storage that the requestor of the Hiperbatch Monitor data collector uses to reference data extracted by the data collector.

HMAA mapping

Table 939. Structure HMAA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HMAA	HIPERBATCH MONITOR ANSWER AREA
		GENERAL MACRO USAGE FIELDS			
0	(0)	BITSTRING	1	HMAAVERS	VERSION NUMBER X'00'
1	(1)	BITSTRING	3	HMAARES1	RESERVED
4	(4)	SIGNED	4	HMAALEN	LEN OF ENTIRE ANSWER AREA TO FOLLOW
8	(8)	SIGNED	4	HMAANUMD	NUMBER OF DATA SET BLOCKS RETURNED
12	(C)	ADDRESS	4	HMAADSNP	POINTER TO FIRST DATA SET BLOCK
16	(10)	SIGNED	4	HMAADSNS	SIZE OF EACH DATA SET BLOCK
		GLOBAL FIELDS (FROM GLOBAL CONTROL BLOCKS)			
20	(14)	SIGNED	4	HMAAMAXC	MAX NUMBER OF CACHED DATA SETS ALLOWED
24	(18)	SIGNED	4	HMAACURR	CURRENT NUMBER OF RETAINED DATA SETS

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Table 939. Structure HMAA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	SIGNED	4	HMAAEXPB	MAXIMUM ESTORE AVAIL TO HIPERBATCH (IN UNITS OF 4K BYTES)
32	(20)	SIGNED	4	HMAAMRET	MAXIMUM AMOUNT OF RETAINED STORAGE
36	(24)	SIGNED	4	HMAAIRET	IN-USE AMOUNT OF RETAINED STORAGE
40	(28)	SIGNED	4	HMAAMNRT	MAX AMOUNT OF NON-RETAINED STORAGE
44	(2C)	SIGNED	4	HMAAINRT	IN-USE AMT OF NON-RETAINED STORAGE
48	(30)	SIGNED	4	HMAATOES	TOTAL AMOUNT OF ESTORE ONLINE
52	(34)	SIGNED	4	HMAANUMC	NUM OF DATA SETS NOW BEING CACHED
56	(38)	BITSTRING	4	HMAARES2	RESERVED
60	(3C)	SIGNED	2	HMAANUMR	NUMBER OF TIMES HIPERBATCH WENT INTO RECOVERY
62	(3E)	SIGNED	2	HMAADLFA	DLF ADDRESS SPACE ASID
64	(40)	BITSTRING	1	HMAAGLBF	HIPERBATCH GLOBAL FLAGS
		1...		HM@DISAB	"X'80'" HIPERBATCH IS DISABLED. If this bit is on then all data is incorrect, including all "data set-specific fields", "range block data" & "tracker data". @01C
		.1..		HM@NORNV	"X'40'" NO MORE VSAM READERS ARE ALLOWED TO CONNECT TO A NEW DATA SET
		..1.		HM@NORNQ	"X'20'" NO MORE QSAM READERS ARE ALLOWED TO CONNECT TO A NEW DATA SET
65	(41)	BITSTRING	3	HMAARES3	RESERVED
68	(44)	BITSTRING	4	HMAARES4	RESERVED
72	(48)	BITSTRING	4	HMAARES5	RESERVED
76	(4C)	BITSTRING	4	HMAARES6	RESERVED
76	(4C)	X'50'	0	HMAALENG	"*-HMAA" LENGTH OF GLOBAL PART OF ANSWER AREA

Table 940. Structure HMAADSNB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HMAADSNB	DATA SET BLOCK DATA
0	(0)	SIGNED	4	HMAALEND	LENGTH OF THIS DATA SET BLOCK, INCLUDING ALL RANGE BLOCKS (HMAARNG) AND TRACKERS (HMAATRKR)
4	(4)	CHARACTER	44	HMAADSNM	DATA SET NAME
48	(30)	CHARACTER	6	HMAAVOL	VOLSER
54	(36)	BITSTRING	2	HMAARES7	RESERVED
56	(38)	BITSTRING	1	HMAAERR	ERROR FLAGS
		PLZ NOTE: THESE ERROR FLAGS O-N-L-Y SET HMAAERR (NOT REG 15)			

Table 940. Structure HMAADSNB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	X'14'	0	HM@NCCHD	"20" THIS DS ISN'T CURRENTLY BEING CACHED
56	(38)	X'18'	0	HM@SV261	"24" THIS DS ENCOUNTERED SVC 26 ERROR #1
56	(38)	X'1C'	0	HM@SV262	"28" THIS DS ENCOUNTERED AN SVC 26 ERROR, I.E., DATA SET IS NOT A VSAM CLUSTER
56	(38)	X'20'	0	HM@SV263	"32" THIS DS ENCOUNTERED AN SVC 26 ERROR I.E., UNABLE TO FIND DATA COMPONENT
56	(38)	X'24'	0	HM@SV264	"36" THIS DS ENCOUNTERED SVC 26 ERROR #2
56	(38)	X'28'	0	HM@RNGT	"40" THIS DS ENCOUNTERED A RANGE ERROR
56	(38)	X'2C'	0	HM@TRKR	"44" THIS DS ENCOUNTERED A TRACKER ERROR
PLZ NOTE: THE NEXT 4 ERROR FLAGS ARE SET BY THE COFDHRBN RTN					
56	(38)	X'30'	0	HM@SV265	"48" THIS DS ENCOUNTERED AN SVC 26 ERROR WHILE CALCULATING THE HRBN OF A QSAM MANAGED DATA SET
56	(38)	X'34'	0	HM@UCBLK	"52" THIS DS ENCOUNTERED A UCBLOOK ERROR
56	(38)	X'38'	0	HM@OBTN	"56" THIS DS ENCOUNTERED AN OBTAIN ERROR
56	(38)	X'3C'	0	HM@TRKC	"60" THIS DS ENCOUNTERED A TRKCALC ERROR
56	(38)	X'40'	0	HM@HRB0	"64" THIS DS HAS AN HIRBA / RBN OF 0!!!
57	(39)	BITSTRING	3	HMAARES8	RESERVED
60	(3C)	SIGNED	4	HMAAHURB	DATA SET'S HIGH USED RBA (IF VSAM) OR HIGH USED RBN (IF QSAM)
64	(40)	BITSTRING	4	HMAACFLG	GLOBAL FLAGS
		.1..		HM@VSAM	"X'40'" CACHED DATA SET IS A VSAM DATA SET
		..1.		HM@QSAM	"X'20'" CACHED DATA SET IS A QSAM DATA SET
		.... .1..		HM@RTAIN	"X'04'" DATA SET IS BEING RETAINED
		.... ..1.		HM@BSAM	"X'02'" BSAM/EXCP UPDATER
68	(44)	SIGNED	4	HMAACISZ	DATA SET CI OR BUFFER (QSAM) SIZE
72	(48)	SIGNED	4	HMAAOPNN	NUMBER OF OPENS AGAINST THIS DATASET
76	(4C)	SIGNED	4	HMAABKDP	NUMBER OF BACKED PAGES USED BY THE DATA SET (UNITS OF 4K-BYTES)
80	(50)	ADDRESS	4	HMAARNGP	POINTER TO FIRST RANGE BLOCK
84	(54)	SIGNED	4	HMAARNGS	SIZE OF EACH RANGE BLOCK
88	(58)	SIGNED	4	HMAARNGN	NUMBER OF RANGE BLOCKS TO FOLLOW
92	(5C)	ADDRESS	4	HMAATRKP	POINTER TO FIRST TRACKER
96	(60)	SIGNED	4	HMAATRKS	SIZE OF EACH TRACKER
100	(64)	SIGNED	4	HMAATRKN	NUMBER OF TRACKERS TO FOLLOW
104	(68)	BITSTRING	4	HMAARES9	RESERVED
108	(6C)	BITSTRING	4	HMAARS10	RESERVED

Table 940. Structure HMAADSNB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
108	(6C)	X'70'	0	HMAALENB	"*-HMAADSNB" LENGTH OF FIXED PART OF A DSN BLOCK
108	(6C)	X'C0'	0	HMAALENF	"(*-HMAADSNB)+HMAALENG" LEN OF FIXED PART OF ANSWER AREA

Table 941. Structure HMAARNG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HMAARNG	ESTORE RANGE DATA, ONE PER RANGE OF DATA SET DATA CONTAINED IN ESTORE
0	(0)	SIGNED	4	HMAALRBA	LOW RBA REPRESENTED BY THIS RANGE
0	(0)	X'0'	0	HMAALRBN	"HMAALRBA,4" LOW RBN REPRESENTED BY THIS RANGE
4	(4)	SIGNED	4	HMAAHRBA	HIGH RBA REPRESENTED BY THIS RANGE
4	(4)	X'4'	0	HMAAHRBN	"HMAAHRBA,4" HIGH RBN REPRESENTED BY THIS RANGE
4	(4)	X'8'	0	HMAALENC	"*-HMAARNG" LENGTH OF A RANGE BLOCK DATA ENTRY

Table 942. Structure HMAATRKR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HMAATRKR	TRACKER (USER) DATA, ONE PER USER
0	(0)	DBL WORD	8	HMAATIME	TIME-OF-DAY TIMESTAMP OF FIRST OPEN
8	(8)	SIGNED	4	HMAARBA	RBA REPRESENTED BY THIS TRACKER
8	(8)	X'8'	0	HMAARBN	"HMAARBA,4" RBN REPRESENTED BY THIS TRACKER
12	(C)	SIGNED	2	HMAAASID	OWNING ASID
14	(E)	BITSTRING	2	HMAAAFLG	TRACKER FLAGS
		1...		HM@ASEQL	"X'80'" SEQUENTIAL - QSAM AND VSAM
		.1..		HM@ABSUP	"X'40'" BSAM UPDATER - QSAM
		...1		HM@AINPT	"X'10'" INPUT - QSAM AND VSAM
		.... 1...		HM@AVSUP	"X'08'" VSAM UPDATER / QSAM CREATE (LOAD)
		.... .1..		HM@AVLOD	"X'04'" VSAM LOAD
16	(10)	SIGNED	4	HMAANIOR	NUMBER OF I/O READ REQUESTS
20	(14)	SIGNED	4	HMAACHTS	NUMBER OF CACHE HITS
24	(18)	SIGNED	4	HMAAWATS	NUMBER OF WAITS
28	(1C)	SIGNED	4	HMAAPHYS	NUMBER OF PHYSICAL I/OS
32	(20)	SIGNED	4	HMAAPHSP	NUMBER OF PHYSICAL I/OS FOR PIONEER
32	(20)	X'24'	0	HMAALENA	"*-HMAATRKR" LENGTH OF A TRACKER DATA ENTRY
		EQUS FOR GETMAIN AREA LENGTHS (COFDBIRD AND SLCT USE ANSWLEN6)			

Table 942. Structure HMAATRKR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	X'3DB0'	0	ANSWLEN	"HMAALENF+(1500*HMAALENC)+(100*HMAALENA)" THE ABOVE IS APPROX. 15K BYTES
32	(20)	X'112D0'	0	ANSWLEN6	"HMAALENG+6*(HMAALENB+(1000*HMAALENC)+(100*HMAALENA))" THE ABOVE IS APPROX. 68K BYTES

Table 943. Cross Reference for HMAA

Name	Offset	Hex Tag
ANSWLEN	20	3DB0
ANSWLEN6	20	112D0
HM@ABSUP	E	40
HM@AINPT	E	10
HM@ASEQL	E	80
HM@AVLOD	E	4
HM@AVSUP	E	8
HM@BSAM	40	2
HM@DISAB	40	80
HM@HRB0	38	40
HM@NCCHD	38	14
HM@NORNQ	40	20
HM@NORNV	40	40
HM@OBTN	38	38
HM@QSAM	40	20
HM@RNGT	38	28
HM@RTAIN	40	4
HM@SV261	38	18
HM@SV262	38	1C
HM@SV263	38	20
HM@SV264	38	24
HM@SV265	38	30
HM@TRKC	38	3C
HM@TRKR	38	2C
HM@UCBLK	38	34
HM@VSAM	40	40
HMAA	0	
HMAAAFLG	E	
HMAAASID	C	
HMAABKDP	4C	
HMAACFLG	40	
HMAACHTS	14	
HMAACISZ	44	
HMAACURR	18	
HMAADLFA	3E	
HMAADSNB	0	
HMAADSNM	4	
HMAADSNP	C	
HMAADSNS	10	
HMAAERR	38	

Table 943. Cross Reference for HMAA (continued)

Name	Offset	Hex Tag
HMAAEXPB	1C	
HMAAGLBF	40	
HMAAHRBA	4	
HMAAHRBN	4	4
HMAAHURB	3C	
HMAAINRT	2C	
HMAAIRET	24	
HMAALEN	4	
HMAALENA	20	24
HMAALENB	6C	70
HMAALENC	4	8
HMAALEND	0	
HMAALENF	6C	C0
HMAALENG	4C	50
HMAALRBA	0	
HMAALRBN	0	0
HMAAMAXC	14	
HMAAMNRT	28	
HMAAMRET	20	
HMAANIOR	10	
HMAANUMC	34	
HMAANUMD	8	
HMAANUMR	3C	
HMAAOPNN	48	
HMAAPHSP	20	
HMAAPHYS	1C	
HMAARBA	8	
HMAARBN	8	8
HMAARES1	1	
HMAARES2	38	
HMAARES3	41	
HMAARES4	44	
HMAARES5	48	
HMAARES6	4C	
HMAARES7	36	
HMAARES8	39	
HMAARES9	68	
HMAARNG	0	
HMAARNGN	58	
HMAARNGP	50	
HMAARNGS	54	
HMAARS10	6C	
HMAATIME	0	
HMAATOES	30	
HMAATRKN	64	
HMAATRKP	5C	
HMAATRKR	0	
HMAATRKS	60	
HMAAVERS	0	

Table 943. Cross Reference for HMAA (continued)

Name	Offset	Hex Tag
HMAAVOL	30	
HMAAWATS	18	

Chapter 234. HMPL Information

HMPL Heading Information

Common Name:	Hiperbatch Monitor Parameter List
Macro ID:	COFZHMPL
DSECT Name:	HMPL
Owning Component:	VLF (SC164)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 0 Key: 8 Residency: Above 16MB in central/virtual storage
Size:	40 bytes for HMPL, 56 bytes for each HMPHR 44 bytes for each HMPDS
Created by:	The HMPL is created by the requestor of the Hiperbatch Monitor data collector (COFDSTAT). The storage for the HMPL may reside anywhere in private or common addressable storage.
Pointed to by:	Private pointer (or data register), in containing module. Register 1 on entry to COFDSTAT.
Serialization:	None required.
Function:	The HMPL represents a request to the Hiperbatch Monitor data collector (COFDSTAT). This parm list must be filled in for COFDSTAT to process the request.

HMPL mapping

Table 944. Structure HMPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HMPL	HIPERBATCH SERVICE CALL WORKAREA
0	(0)	BITSTRING	1	HMPVERSN	WORKAREA VERSION NUMBER X'00'
1	(1)	BITSTRING	1	HMPFUNCN	FUNCTION CODE:
1	(1)	X'1'	0	HM@GLBL	"1" GLOBAL REQUEST
1	(1)	X'2'	0	HM@SUMM	"2" SUMMARY REQUEST
1	(1)	X'3'	0	HM@SLCT	"3" "SELECTED DATASETS" REQUEST
1	(1)	X'4'	0	HM@ALL	"4" 'ALL' REQUEST
2	(2)	BITSTRING	2		RESERVED FOR FUTURE USE
4	(4)	ADDRESS	4	HMPANSWR	POINTER TO ANSWER AREA (HMAA)
8	(8)	SIGNED	4	HMPANSLN	ANSWER AREA LENGTH
12	(C)	ADDRESS	4	HMPHRBLK	POINTER TO HIGH USED RBA/RBN BLOCK
16	(10)	SIGNED	4	HMPHRNUM	NUMBER OF HMPHR ENTRIES
20	(14)	SIGNED	4	HMPHRSIZ	SIZE OF EACH HMPHR ENTRY
24	(18)	ADDRESS	4	HMPDSBLK	POINTER TO FIRST HMPDS ENTRY
28	(1C)	SIGNED	4	HMPDSNUM	NUMBER OF HMPDS ENTRIES
32	(20)	SIGNED	4	HMPDSSIZ	SIZE OF EACH HMPDS ENTRY
36	(24)	SIGNED	4		RESERVED FOR FUTURE USE

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HMPL mapping

Table 945. Structure HMPHR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HMPHR	HIGH USED RBA/N BLOCK SAVEAREA
0	(0)	CHARACTER	44	HMPHRDSN	CACHED DATA SET NAME
44	(2C)	CHARACTER	8	HMPHRSTK	DATA SET'S HIPERSPACE STOKEN
52	(34)	SIGNED	4	HMPHRHRB	HIGH USED RBA / N
52	(34)	X'38'	0	HM@HRLEN	"*-HMPHR" LENGTH OF AREA

Table 946. Structure HMPDS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HMPDS	DATA SET NAME REQUEST BLOCK
0	(0)	CHARACTER	44	HMPDSDSN	REQUESTED DATA SET NAME
0	(0)	X'2C'	0	HM@DSLEN	"*-HMPDS" LENGTH OF AREA
	RETURN CODES (IN REG 15) FROM COFDSTAT				
0	(0)	X'4'	0	HM@LEN	"4" LENGTH ERROR (ANSWER AREA TOO SMALL)
0	(0)	X'8'	0	HM@PARM	"8" INPUT PARAMETER ERROR
0	(0)	X'C'	0	HM@NHIPR	"12" DLF NOT ACTIVE OR HIPERBATCH NOT CACHING
0	(0)	X'10'	0	HM@NCACH	"16" NO DATA SETS CURRENTLY BEING CACHED
0	(0)	X'14'	0	HM@ENVER	"20" ENVIRONMENTAL ERRORS
	PARAMETER ERROR (RETURN CODE 8) REASON CODES (IN REG 0)				
0	(0)	X'0'	0	HM@PRM00	"0" HMPL VERSION NUMBER NOT SUPPORTED
0	(0)	X'4'	0	HM@PRM04	"4" INVALID ANSWER AREA POINTER
0	(0)	X'8'	0	HM@PRM08	"8" INVALID ANSWER AREA LENGTH
0	(0)	X'C'	0	HM@PRM12	"12" INVALID FUNCTION CODE
0	(0)	X'10'	0	HM@PRM16	"16" INVALID DATA SET BLOCK POINTER
0	(0)	X'14'	0	HM@PRM20	"20" INVALID HMPDSNUM VALUE
0	(0)	X'18'	0	HM@PRM24	"24" INVALID HMPDSSIZ VALUE
	HIPERBATCH ERROR (RETURN CODE 12) REASON CODES (IN REG 0)				
0	(0)	X'0'	0	HM@HPB00	"0" DLF NOT ACTIVE
0	(0)	X'4'	0	HM@HPB04	"4" VLF DATA IS INVALID
0	(0)	X'8'	0	HM@HPB08	"8" HB HAS NOT YET OPENED ANY DATA SETS
0	(0)	X'C'	0	HM@HPB12	"12" GLOBAL HEADER EYECATCHER INVALID
0	(0)	X'10'	0	HM@HPB16	"16" GLOBAL PROPER POINTER INVALID
0	(0)	X'14'	0	HM@HPB20	"20" GLOBAL PROPER EYECATCHER INVALID
0	(0)	X'18'	0	HM@HPB24	"24" GLOBAL DATA SET TABLE PTR INVALID

Table 947. Cross Reference for HMPL

Name	Offset	Hex Tag
HM@ALL	1	4

Table 947. Cross Reference for HMPL (continued)

Name	Offset	Hex Tag
HM@DSLEN	0	2C
HM@ENVER	0	14
HM@GLBL	1	1
HM@HPB00	0	0
HM@HPB04	0	4
HM@HPB08	0	8
HM@HPB12	0	C
HM@HPB16	0	10
HM@HPB20	0	14
HM@HPB24	0	18
HM@HRLEN	34	38
HM@LEN	0	4
HM@NCACH	0	10
HM@NHIPR	0	C
HM@PARM	0	8
HM@PRM00	0	0
HM@PRM04	0	4
HM@PRM08	0	8
HM@PRM12	0	C
HM@PRM16	0	10
HM@PRM20	0	14
HM@PRM24	0	18
HM@SLCT	1	3
HM@SUMM	1	2
HMPANSLN	8	
HMPANSWR	4	
HMPDS	0	
HMPDSBLK	18	
HMPDSDSN	0	
HMPDSNUM	1C	
HMPDSSIZ	20	
HMPFUNCN	1	
HMPHR	0	
HMPHRBLK	C	
HMPHRDSN	0	
HMPHRHRB	34	
HMPHRNUM	10	
HMPHRSIZ	14	
HMPHRSTK	2C	
HMPL	0	
HMPVERSN	0	

Chapter 235. HWICIASM Information

HWICIASM Programming Interface Information

HWICIASM is a programming interface.

HWICIASM Heading Information

Common Name:	Assembler Interface Definition File for the Base Control Program Internal Interface
Macro ID:	HWICIASM
DSECT Name:	n/a
Owning Component:	BCPII (SCHWI)
Eye-Catcher ID:	none
Storage Attributes:	
Size:	n/a
Created by:	n/a
Pointed to by:	n/a
Serialization:	n/a
Function:	HWICIASM defines BCPII Constants and declares for programs written in the Assembler language which will invoke the BCPII callable services.

HWICIASM mapping

Table 948. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	CHARACTER	16	HWI_CONNTOKEN_TYPE	
16	(10)	CHARACTER	17	HWI_CPCNETADDR_TYPE	
33	(21)	CHARACTER	8	HWI_IMAGENAME_TYPE	
41	(29)	CHARACTER	8	HWI_CAPRECNAME_TYPE	
49	(31)	CHARACTER	16	HWI_ACTPROFNAME_TYPE	
65	(41)	CHARACTER	30	HWI_IMAGEGROUPNAME_TYPE	
95	(5F)	CHARACTER	1	HWI_CPCSERIALNUM_TYPE	

Table 949. Structure HWI_DIAGAREA_TYPE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HWI_DIAGAREA_TYPE	
0	(0)	SIGNED	4	HWI_DIAGAREA_DIAG_INDEX	
4	(4)	SIGNED	4	HWI_DIAGAREA_DIAG_KEY	
8	(8)	SIGNED	4	HWI_DIAGAREA_DIAG_ACTUAL	
12	(C)	SIGNED	4	HWI_DIAGAREA_DIAG_EXPECTED	
16	(10)	SIGNED	4	HWI_DIAGAREA_DIAG_COMMERR	
20	(14)	CHARACTER	12	HWI_DIAGAREA_DIAG_TEXT	
DiagArea structure length					
20	(14)	X'20'	0	HWI_DIAGAREA_TYPE_LENGTH	"*-HWI_DIAGAREA_TYPE"

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HWICIASM mapping

Table 950. Structure HWI_QUERYPARM_TYPE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HWI_QUERYPARM_TYPE	
0	(0)	SIGNED	4	HWI_QUERYPARM_ATTRIBUTEIDENTIFIER	
4	(4)	ADDRESS	4	HWI_QUERYPARM_ATTRIBUTEVALUE_PTR	
8	(8)	SIGNED	4	HWI_QUERYPARM_ATTRIBUTEVALUELEN	
12	(C)	SIGNED	4	HWI_QUERYPARM_ATTRIBUTEVALUELENRETURNED	
QueryParm structure length					
12	(C)	X'10'	0	HWI_QUERYPARM_TYPE_LENGTH	"*-HWI_QUERYPARM_TYPE"

Table 951. Structure HWI_SETTYPEVALUE_PARM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HWI_SETTYPEVALUE_PARM	
0	(0)	X'0'	0	SET_DATA	"*"
0	(0)	SIGNED	4	HWI_SETTYPEVALUE_PARM_INTEGER	
0	(0)	CHARACTER	1	HWI_SETTYPEVALUE_PARM_STRINGDATA	

Table 952. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
108	(6C)	SIGNED	4	HWIENF68_INT_T	
112	(70)	SIGNED	4	HWIENF68_BOOL_T	
116	(74)	SIGNED	2	HWIENF68_SHORT_T	

Table 953. Structure HWIENF68_STRING_T

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HWIENF68_STRING_T	
0	(0)	SIGNED	4	HWIENF68_STRING_OFFSTR	
4	(4)	SIGNED	4	HWIENF68_STRING_LENSTR	
Command Types returned by ENF for a CMDRESP event. This is a list of the possible cmdType values which can be returned as part of the ENF data buffer for a CMDRESP event in the HWIENF68_CMDRESP_CMDTYPE field.					
4	(4)	X'0'	0	HWIENF68_UNKNOWN_COMMAND	"0"
4	(4)	X'1'	0	HWIENF68_ACTIVATE_COMMAND	"1"
4	(4)	X'2'	0	HWIENF68_DEACTIVATE_COMMAND	"2"
4	(4)	X'3'	0	HWIENF68_SEND_OPSYS_COMMAND	"3"
4	(4)	X'4'	0	HWIENF68_RESETNORMAL_COMMAND	"4"
4	(4)	X'5'	0	HWIENF68_START_COMMAND	"5"
4	(4)	X'6'	0	HWIENF68_STOP_COMMAND	"6"
4	(4)	X'7'	0	HWIENF68_PSWRESTART_COMMAND	"7"
4	(4)	X'8'	0	HWIENF68_INITIALIZE_API	"8"
4	(4)	X'9'	0	HWIENF68_TERMINATE_API	"9"

Table 953. Structure HWIENF68_STRING_T (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'A'	0	HWIENF68_LOAD_COMMAND	"10"
4	(4)	X'B'	0	HWIENF68_HW_MESSAGE_REFRESH_COMMAND	"11"
4	(4)	X'C'	0	HWIENF68_RESETCLEAR_COMMAND	"12"
4	(4)	X'D'	0	HWIENF68_HW_MESSAGE_DELETE_COMMAND	"13"
4	(4)	X'E'	0	HWIENF68_ACTIVATE_CBU_COMMAND	"14"
4	(4)	X'F'	0	HWIENF68_UNDO_CBU_COMMAND	"15"
4	(4)	X'10'	0	HWIENF68_IMPORT_PROFILE_COMMAND	"16"
4	(4)	X'11'	0	HWIENF68_EXPORT_PROFILE_COMMAND	"17"
4	(4)	X'12'	0	HWIENF68_RESERVE_COMMAND	"18"
4	(4)	X'13'	0	HWIENF68_EXTERNAL_INTERRUPT_COMMAND	"19"
4	(4)	X'14'	0	HWIENF68_SCSI_LOAD_COMMAND	"20"
4	(4)	X'15'	0	HWIENF68_SCSI_DUMP_COMMAND	"21"
4	(4)	X'16'	0	HWIENF68_SHUTDOWN_RESTART_COMMAND	"22"
4	(4)	X'17'	0	HWIENF68_ACTIVATE_OOCOD_COMMAND	"23"
4	(4)	X'18'	0	HWIENF68_UNDO_OOCOD_COMMAND	"24"
4	(4)	X'19'	0	HWIENF68_ADD_CAPACITY_COMMAND	"25"
4	(4)	X'1A'	0	HWIENF68_REMOVE_CAPACITY_COMMAND	"26"
Event Version constants					
4	(4)	X'1'	0	HWIENF68_VERS1	"1"
4	(4)	X'2'	0	HWIENF68_VERS2	"2"
4	(4)	X'2'	0	HWIENF68_CURRVERS	"2"

Table 954. Structure HWIENF68

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HWIENF68	
0	(0)	SIGNED	4	HWIENF68_DATATLEN	
4	(4)	CHARACTER	8	HWIENF68_CATCHER	
12	(C)	SIGNED	2	HWIENF68_DATAVERS	
14	(E)	SIGNED	2	HWIENF68_EVENTTYPE	
16	(10)	SIGNED	2	HWIENF68_EVENTSUBTYPE	
18	(12)	SIGNED	2	HWIENF68_EVENTSOURCE	
20	(14)	CHARACTER	17	HWIENF68_CPCNAME	
37	(25)	CHARACTER	8	HWIENF68_IMAGENAME	
45	(2D)	CHARACTER	3		
45	(2D)	X'30'	0	EVENT_DATA	"*"

Table 954. Structure HWIENF68 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Mapping of the event data in the buffer passed by ENF to an event exit when the eventType is HWIENF68_EVENTTYPE_HWEVENT and the eventSubType is HWIENF68_HWEVENT_CMDRESP.					
48	(30)	CHARACTER	1	HWIENF68_CMDRESP_T(0)	
48	(30)	CHARACTER	16	HWIENF68_CMDRESP_CONNECTTOKEN	
64	(40)	CHARACTER	1	HWIENF68_CMDRESP_EVENTOBJNAME(0)	
64	(40)	CHARACTER	4	CMDRESP_EVENTOBJNAME_OFFSTR	
68	(44)	CHARACTER	4	CMDRESP_EVENTOBJNAME_LENSTR	
72	(48)	CHARACTER	4	HWIENF68_CMDRESP_CMDTYPE	
76	(4C)	CHARACTER	4	HWIENF68_CMDRESP_CMDRETCODE	
80	(50)	CHARACTER	1	HWIENF68_CMDRESP_LASTRESPONSE	
Mapping of the event data in the buffer passed by ENF to an event exit when the eventType is HWIENF68_EVENTTYPE_HWEVENT and the eventSubType is HWIENF68_HWEVENT_HWMSG.					
48	(30)	CHARACTER	1	HWIENF68_HWMSG_T(0)	
48	(30)	CHARACTER	1	HWIENF68_HWMSG_EVENTOBJNAME(0)	
48	(30)	CHARACTER	4	HWMSG_EVENTOBJNAME_OFFSTR	
52	(34)	CHARACTER	4	HWMSG_EVENTOBJNAME_LENSTR	
56	(38)	CHARACTER	1	HWIENF68_HWMSG_MSGTIMESTAMP(0)	
56	(38)	CHARACTER	4	HWMSG_MSGTIMESTAMP_OFFSTR	
60	(3C)	CHARACTER	4	HWMSG_MSGTIMESTAMP_LENSTR	
64	(40)	CHARACTER	1	HWIENF68_HWMSG_MSGTEXT(0)	
64	(40)	CHARACTER	4	HWMSG_MSGTEXT_OFFSTR	
68	(44)	CHARACTER	4	HWMSG_MSGTEXT_LENSTR	
72	(48)	CHARACTER	1	HWIENF68_HWMSG_NEWMSG	
76	(4C)	CHARACTER	1	HWIENF68_HWMSG_IMAGELIST(0)	
76	(4C)	CHARACTER	4	HWMSG_IMAGELIST_OFFSTR	
80	(50)	CHARACTER	1	HWMSG_IMAGELIST_LENSTR	
Mapping of the event data in the buffer passed by ENF to an event exit when the eventType is HWIENF68_EVENTTYPE_HWEVENT and the eventSubType is HWIENF68_HWEVENT_OPSYSMSG.					
48	(30)	CHARACTER	1	HWIENF68_OPSYSMSG_T(0)	
48	(30)	CHARACTER	1	HWIENF68_OPSYSMSG_EVENTOBJNAME(0)	
48	(30)	CHARACTER	4	OPSYSMSG_EVENTOBJNAME_OFFSTR	
52	(34)	CHARACTER	4	OPSYSMSG_EVENTOBJNAME_LENSTR	
56	(38)	CHARACTER	1	HWIENF68_OPSYSMSG_MSGTEXT(0)	
56	(38)	CHARACTER	4	OPSYSMSG_MSGTEXT_OFFSTR	
60	(3C)	CHARACTER	4	OPSYSMSG_MSGTEXT_LENSTR	
64	(40)	CHARACTER	1	HWIENF68_OPSYSMSG_MSGID(0)	
64	(40)	CHARACTER	4	OPSYSMSG_MSGID_OFFSTR	
68	(44)	CHARACTER	4	OPSYSMSG_MSGID_LENSTR	
72	(48)	CHARACTER	1	HWIENF68_OPSYSMSG_MSGDATE(0)	
72	(48)	CHARACTER	4	OPSYSMSG_MSGDATE_OFFSTR	
76	(4C)	CHARACTER	4	OPSYSMSG_MSGDATE_LENSTR	
80	(50)	CHARACTER	1	HWIENF68_OPSYSMSG_MSGTIME(0)	
80	(50)	CHARACTER	4	OPSYSMSG_MSGTIME_OFFSTR	
84	(54)	CHARACTER	4	OPSYSMSG_MSGTIME_LENSTR	
88	(58)	CHARACTER	1	HWIENF68_OPSYSMSG_PROMPTTEXT(0)	
88	(58)	CHARACTER	4	OPSYSMSG_PROMPTTEXT_OFFSTR	
92	(5C)	CHARACTER	4	OPSYSMSG_PROMPTTEXT_LENSTR	
96	(60)	CHARACTER	1	HWIENF68_OPSYSMSG_OPSYSNAME(0)	

Table 954. Structure HWIENF68 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
96	(60)	CHARACTER	4	OPSYSMSG_OPSYSNAME_OFFSTR	
100	(64)	CHARACTER	4	OPSYSMSG_OPSYSNAME_LENSTR	
104	(68)	CHARACTER	4	HWIENF68_OPSYSMSG_ALARMMSG	
108	(6C)	CHARACTER	4	HWIENF68_OPSYSMSG_PRIORITYMSG	
112	(70)	CHARACTER	4	HWIENF68_OPSYSMSG_HELDMSG	
116	(74)	CHARACTER	1	HWIENF68_OPSYSMSG_NEWMSG	
Max_EventData_Size is calculated following the largest event_data mapping.					
116	(74)	X'78'	0	MAX_EVENTDATA_SIZE	"*-HWIENF68"
Mapping of the event data in the buffer passed by ENF to an event exit when the eventType is HWIENF68_EVENTTYPE_HWEVENT and the eventSubType is HWIENF68_HWEVENT_STATUSCHG.					
48	(30)	CHARACTER	1	HWIENF68_STATUSCHG_T(0)	
48	(30)	CHARACTER	1	HWIENF68_STATUSCHG_EVENTOBJNAME(0)	
48	(30)	CHARACTER	4	STATUSCHG_EVENTOBJNAME_OFFSTR	
52	(34)	CHARACTER	4	STATUSCHG_EVENTOBJNAME_LENSTR	
56	(38)	CHARACTER	4	HWIENF68_STATUSCHG_OLDSTATUS	
60	(3C)	CHARACTER	1	HWIENF68_STATUSCHG_NEWSTATUS	
Mapping of the event data in the buffer passed by ENF to an event exit when the eventType is HWIENF68_EVENTTYPE_HWEVENT and the eventSubType is HWIENF68_HWEVENT_NAMECHG. HWIENF68_NAMECHG_ OBJECTTYPE is filled in if the HWIENF68_DATAVERS > 1.					
48	(30)	CHARACTER	1	HWIENF68_NAMECHG_T(0)	
48	(30)	CHARACTER	1	HWIENF68_NAMECHG_OLDOBJNAME(0)	
48	(30)	CHARACTER	4	NAMECHG_OLDOBJNAME_OFFSTR	
52	(34)	CHARACTER	4	NAMECHG_OLDOBJNAME_LENSTR	
56	(38)	CHARACTER	1	HWIENF68_NAMECHG_NEWOBJNAME(0)	
56	(38)	CHARACTER	4	NAMECHG_NEWOBJNAME_OFFSTR	
60	(3C)	CHARACTER	4	NAMECHG_NEWOBJNAME_LENSTR	
64	(40)	CHARACTER	1	HWIENF68_NAMECHG_OBJECTTYPE	
Mapping of the event data in the buffer passed by ENF to an event exit when the eventType is HWIENF68_EVENTTYPE_HWEVENT and the eventSubType is HWIENF68_HWEVENT_ACTPROFCHG.					
48	(30)	CHARACTER	1	HWIENF68_ACTPROFCHG_T(0)	
48	(30)	CHARACTER	1	HWIENF68_ACTPROFCHG_EVENTOBJNAME(0)	
48	(30)	CHARACTER	4	ACTPROFCHG_EVENTOBJNAME_OFFSTR	
52	(34)	CHARACTER	4	ACTPROFCHG_EVENTOBJNAME_LENSTR	
56	(38)	CHARACTER	1	HWIENF68_ACTPROFCHG_OLDPROFNAME(0)	
56	(38)	CHARACTER	4	ACTPROFCHG_OLDPROFNAME_OFFSTR	
60	(3C)	CHARACTER	4	ACTPROFCHG_OLDPROFNAME_LENSTR	
64	(40)	CHARACTER	1	HWIENF68_ACTPROFCHG_NEWPROFNAME(0)	
64	(40)	CHARACTER	4	ACTPROFCHG_NEWPROFNAME_OFFSTR	
68	(44)	CHARACTER	1	ACTPROFCHG_NEWPROFNAME_LENSTR	
Mapping of the event data in the buffer passed by ENF to an event exit when the eventType is HWIENF68_EVENTTYPE_HWEVENT and the eventSubType is HWIENF68_HWEVENT_OBJCREATE. HWIENF68_OBJCREATE_ OBJECTTYPE is filled in if the HWIENF68_DATAVERS > 1.					
48	(30)	CHARACTER	1	HWIENF68_OBJCREATE_T(0)	
48	(30)	CHARACTER	1	HWIENF68_OBJCREATE_EVENTOBJNAME(0)	
48	(30)	CHARACTER	4	OBJCREATE_EVENTOBJNAME_OFFSTR	

Table 954. Structure HWIENF68 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	CHARACTER	4	OBJCREATE_EVENTOBJNAME_LENSTR	
56	(38)	CHARACTER	1	HWIENF68_OBJCREATE_OBJECTTYPE	
Mapping of the event data in the buffer passed by ENF to an event exit when the eventType is HWIENF68_EVENTTYPE_HWEVENT and the eventSubType is HWIENF68_HWEVENT_OBJDESTROY. HWIENF68_OBJDESTROY_OBJECTTYPE is filled in if the HWIENF68_DATAVERS > 1.					
48	(30)	CHARACTER	1	HWIENF68_OBJDESTROY_T(0)	
48	(30)	CHARACTER	1	HWIENF68_OBJDESTROY_EVENTOBJNAME(0)	
48	(30)	CHARACTER	4	OBJDESTROY_EVENTOBJNAME_OFFSTR	
52	(34)	CHARACTER	4	OBJDESTROY_EVENTOBJNAME_LENSTR	
56	(38)	CHARACTER	1	HWIENF68_OBJDESTROY_OBJECTTYPE	
Mapping of the event data in the buffer passed by ENF to an event exit when the eventType is HWIENF68_EVENTTYPE_HWEVENT and the eventSubType is HWIENF68_HWEVENT_OBJEXCEPTION. HWIENF68_OBJEXCEPTION_OBJECTTYPE is filled in if the HWIENF68_DATAVERS > 1.					
48	(30)	CHARACTER	1	HWIENF68_OBJEXCEPTION_T(0)	
48	(30)	CHARACTER	1	HWIENF68_OBJEXCEPTION_EVENTOBJNAME(0)	
48	(30)	CHARACTER	1	OBJEXCEPTION_EVENTOBJNAME_OFFSTR	
52	(34)	CHARACTER	1	OBJEXCEPTION_EVENTOBJNAME_LENSTR	
56	(38)	CHARACTER	4	HWIENF68_OBJEXCEPTION_EXCEPTIONSTATE	
60	(3C)	CHARACTER	1	HWIENF68_OBJEXCEPTION_OBJECTTYPE	
Mapping of the event data in the buffer passed by ENF to an event exit when the eventType is HWIENF68_EVENTTYPE_HWEVENT and the eventSubType is HWIENF68_HWEVENT_APPLSTARTED.					
48	(30)	CHARACTER	1	HWIENF68_APPLSTARTED_T(0)	
48	(30)	CHARACTER	1	HWIENF68_APPLSTARTED_EVENTOBJNAME(0)	
48	(30)	CHARACTER	4	APPLSTARTED_EVENTOBJNAME_OFFSTR	
52	(34)	CHARACTER	1	APPLSTARTED_EVENTOBJNAME_LENSTR	
Mapping of the event data in the buffer passed by ENF to an event exit when the eventType is HWIENF68_EVENTTYPE_HWEVENT and the eventSubType is HWIENF68_HWEVENT_APPLENDED.					
48	(30)	CHARACTER	1	HWIENF68_APPLENDED_T(0)	
48	(30)	CHARACTER	1	HWIENF68_APPLENDED_EVENTOBJNAME(0)	
48	(30)	CHARACTER	4	APPLENDED_EVENTOBJNAME_OFFSTR	
52	(34)	CHARACTER	4	APPLENDED_EVENTOBJNAME_LENSTR	
56	(38)	SIGNED	4	HWIENF68_APPLENDED_REASON	
60	(3C)	CHARACTER	1	HWIENF68_APPLENDED_CONSOLECOMP(0)	
60	(3C)	CHARACTER	4	APPLENDED_CONSOLECOMP_OFFSTR	
64	(40)	CHARACTER	4	APPLENDED_CONSOLECOMP_LENSTR	
68	(44)	SIGNED	4	HWIENF68_APPLENDED_SHUTDOWNTYPE	
Mapping of the event data in the buffer passed by ENF to an event exit when the eventType is HWIENF68_EVENTTYPE_HWEVENT and the eventSubType is HWIENF68_HWEVENT_HWMSGDEL.					
48	(30)	CHARACTER	1	HWIENF68_HWMSGDEL_T(0)	
48	(30)	CHARACTER	1	HWIENF68_HWMSGDEL_EVENTOBJNAME(0)	
48	(30)	CHARACTER	4	HWMSGDEL_EVENTOBJNAME_OFFSTR	
52	(34)	CHARACTER	4	HWMSGDEL_EVENTOBJNAME_LENSTR	
56	(38)	CHARACTER	1	HWIENF68_HWMSGDEL_DELTIMESTAMP(0)	
56	(38)	CHARACTER	4	HWMSGDEL_DELTIMESTAMP_OFFSTR	
60	(3C)	CHARACTER	4	HWMSGDEL_DELTIMESTAMP_LENSTR	

Table 954. Structure HWIENF68 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
64	(40)	CHARACTER	1	HWIENF68_HWMSGDEL_MSGTEXT(0)	
64	(40)	CHARACTER	4	HWMSGDEL_MSGTEXT_OFFSTR	
68	(44)	CHARACTER	4	HWMSGDEL_MSGTEXT_LENSTR	
72	(48)	CHARACTER	1	HWIENF68_HWMSGDEL_IMAGELIST(0)	
72	(48)	CHARACTER	4	HWMSGDEL_IMAGELIST_OFFSTR	
76	(4C)	CHARACTER	1	HWMSGDEL_IMAGELIST_LENSTR	
Mapping of the event data in the buffer passed by ENF to an event exit when the eventType is HWIENF68_EVENTTYPE_HWEVENT and the eventSubType is HWIENF68_HWEVENT_SECURITYEVENT.					
48	(30)	CHARACTER	1	HWIENF68_SECURITYEVENT_T(0)	
48	(30)	CHARACTER	1	HWIENF68_SECURITYEVENT_EVENTOBJNAME(0)	
48	(30)	CHARACTER	1	SECURITYEVENT_EVENTOBJNAME_OFFSTR	
52	(34)	CHARACTER	1	SECURITYEVENT_EVENTOBJNAME_OFFLEN	
56	(38)	CHARACTER	1	HWIENF68_SECURITYEVENT_LOGTIMESTAMP(0)	
56	(38)	CHARACTER	1	SECURITYEVENT_LOGTIMESTAMP_OFFSTR	
60	(3C)	CHARACTER	1	SECURITYEVENT_LOGTIMESTAMP_OFFLEN	
64	(40)	CHARACTER	1	HWIENF68_SECURITYEVENT_LOGTEXT(0)	
64	(40)	CHARACTER	1	SECURITYEVENT_LOGTEXT_OFFSTR	
68	(44)	CHARACTER	1	SECURITYEVENT_LOGTEXT_LENSTR	
Mapping of the event data in the buffer passed by ENF to an event exit when the eventType is HWIENF68_EVENTTYPE_HWEVENT and the eventSubType is HWIENF68_HWEVENT_CAPACITYCHG.					
48	(30)	CHARACTER	1	HWIENF68_CAPACITYCHG_T(0)	
48	(30)	CHARACTER	1	HWIENF68_CAPACITYCHG_EVENTOBJNAME(0)	
48	(30)	CHARACTER	4	CAPACITYCHG_EVENTOBJNAME_OFFSTR	
52	(34)	CHARACTER	4	CAPACITYCHG_EVENTOBJNAME_OFFLEN	
56	(38)	CHARACTER	1	HWIENF68_CAPACITYCHG_CAPCHANGE	
Mapping of the event data in the buffer passed by ENF to an event exit when the eventType is HWIENF68_EVENTTYPE_HWEVENT and the eventSubType is HWIENF68_HWEVENT_CAPACITYRECORD.					
48	(30)	CHARACTER	1	HWIENF68_CAPACITYRECORD_T(0)	
48	(30)	CHARACTER	1	HWIENF68_CAPACITYRECORD_EVENTOBJNAME(0)	
48	(30)	CHARACTER	1	CAPACITYRECORD_EVENTOBJNAME_OFFSTR	
52	(34)	CHARACTER	1	CAPACITYRECORD_EVENTOBJNAME_OFFLEN	
56	(38)	CHARACTER	1	HWIENF68_CAPACITYRECORD_CAPRECCHANGE	
Mapping of the event data in the buffer passed by ENF to an event exit when the eventType is HWIENF68_EVENTTYPE_HWEVENT and the eventSubType is HWIENF68_HWEVENT_DISABLEDWAIT.					
48	(30)	CHARACTER	1	HWIENF68_DISABLEDWAIT_T(0)	
48	(30)	CHARACTER	1	HWIENF68_DISABLEDWAIT_PSWVALUE(0)	
48	(30)	CHARACTER	1	DISABLEDWAIT_PSWVALUE_OFFSTR	
52	(34)	CHARACTER	1	DISABLEDWAIT_PSWVALUE_LENSTR	
56	(38)	CHARACTER	4	HWIENF68_DISABLEDWAIT_PARTITIONID	
60	(3C)	CHARACTER	4	HWIENF68_DISABLEDWAIT_PROCESSORNUM	
64	(40)	CHARACTER	1	HWIENF68_DISABLEDWAIT_CPCSERIALNUM(0)	
64	(40)	CHARACTER	1	DISABLEDWAIT_CPCSERIALNUM_OFFSTR	
68	(44)	CHARACTER	1	DISABLEDWAIT_CPCSERIALNUM_LENSTR	
Mapping of the event data in the buffer passed by ENF to an event exit when the eventType is HWIENF68_EVENTTYPE_HWEVENT and the eventSubType is HWIENF68_HWEVENT_PWRCHG.					

Table 954. Structure HWIENF68 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	CHARACTER	1	HWIENF68_PWRCHG_T(0)	
48	(30)	CHARACTER	4	HWIENF68_PWRCHG_NEWPOWERMODEVALUE	
52	(34)	CHARACTER	4	HWIENF68_PWRCHG_OLDPOWERMODEVALUE	
56	(38)	CHARACTER	4	HWIENF68_PWRCHG_NEWPWRSAVEMODEALLOWD	
60	(3C)	CHARACTER	1	HWIENF68_PWRCHG_OLDPWRSAVEMODEALLOWD	

Table 955. Structure HWI_RETURNDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HWI_RETURNDATA	
0	(0)	SIGNED	4	HWI_NUMBEROFCPUIDS	

Table 956. Structure HWI_CPUENTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HWI_CPUENTRY	Array of entries, one per CPU
0	(0)	SIGNED	4	HWI_CPU_ID	
4	(4)	SIGNED	4	HWI_CPU_PSW(0)	
4	(4)	BITSTRING	4	HWI_PSWWORD1	
8	(8)	BITSTRING	4	HWI_PSWWORD2	
12	(C)	BITSTRING	4	HWI_PSWWORD3	
16	(10)	BITSTRING	4	HWI_PSWWORD4	
16	(10)	X'14'	0	HWI_CPUENTRY_SIZE	"*-HWI_CPUEntry" Size of each entry

Table 957. Structure HWI_POWERSAVINGSMODESRETURNDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HWI_POWERSAVINGSMODESRETURNDATA	
0	(0)	SIGNED	4	HWI_NUMBEROFPOWERSAVINGSMODES	

Table 958. Structure HWI_POWERSAVINGSMODEARRAY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HWI_POWERSAVINGSMODEARRAY	Array of power modes
0	(0)	SIGNED	4	HWI_POWERSAVINGSMODE	
0	(0)	X'4'	0	HWI_POWERSAVINGSMODE_SIZE	"*-HWI_PowerSavingsModeArray"

Table 959. Structure HWI_IPADDRLISTRETURNDATA_TYPE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HWI_IPADDRLISTRETURNDATA_TYPE	
0	(0)	SIGNED	4	HWI_NUMBEROFIPADDRESSES	

Table 960. Structure HWI_IPADDRESSARRAY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HWI_IPADDRESSARRAY	Array of IP addresses
0	(0)	CHARACTER	39	HWI_IPADDRESS	
0	(0)	X'27'	0	HWI_IPADDRESS_SIZE	"*-HWI_IPAddressArray"
Values for BOOL fields					
0	(0)	X'0'	0	HWIENF68_FALSE	"0"
0	(0)	X'1'	0	HWIENF68_TRUE	"1"
eventType values An ENF 68 event encompasses events of these types: - an event indicating the status if BCPii. - an event indicating a communication error - an event indicating that a hardware event has occurred. See the list of eventSubtype values below.					
0	(0)	X'1'	0	HWIENF68_EVENTTYPE_BCPIISTATUS	"1"
0	(0)	X'2'	0	HWIENF68_EVENTTYPE_HWCOMMERROR	"2"
0	(0)	X'3'	0	HWIENF68_EVENTTYPE_HWEVENT	"3"
eventSubType values A BCPii status event type can be further described by these event subtypes in the eventSubtype field in an ENF buffer.					
0	(0)	X'1'	0	HWIENF68_BCPIISTATUS_AVAIL	"1"
0	(0)	X'2'	0	HWIENF68_BCPIISTATUS_UNAVAIL	"2"
A communication error event type can be further described by these event subtypes in the eventSubType field of an ENF buffer.					
0	(0)	X'1'	0	HWIENF68_HWCOMMERROR_TEMP	"1"
0	(0)	X'2'	0	HWIENF68_HWCOMMERROR_PERM	"2"
0	(0)	X'3'	0	HWIENF68_HWCOMMERROR_AVAIL	"3"
A hardware event type can be further described by these event subtypes in the eventSubType field of an ENF buffer.					
0	(0)	X'1'	0	HWIENF68_HWEVENT_CMDRESP	"1"
0	(0)	X'2'	0	HWIENF68_HWEVENT_STATUSCHG	"2"
0	(0)	X'3'	0	HWIENF68_HWEVENT_NAMECHG	"3"
0	(0)	X'4'	0	HWIENF68_HWEVENT_ACTPROFCHG	"4"
0	(0)	X'5'	0	HWIENF68_HWEVENT_OBJCREATE	"5"
0	(0)	X'6'	0	HWIENF68_HWEVENT_OBJDESTROY	"6"
0	(0)	X'7'	0	HWIENF68_HWEVENT_OBJEXCEPTION	"7"
0	(0)	X'8'	0	HWIENF68_HWEVENT_APPLSTARTED	"8"
0	(0)	X'9'	0	HWIENF68_HWEVENT_APPLENDED	"9"
0	(0)	X'A'	0	HWIENF68_HWEVENT_OPSYSMSG	"10"
0	(0)	X'B'	0	HWIENF68_HWEVENT_HWMSG	"11"
0	(0)	X'C'	0	HWIENF68_HWEVENT_HWMSGDEL	"12"
0	(0)	X'D'	0	HWIENF68_HWEVENT_CAPACITYCHG	"13"
0	(0)	X'E'	0	HWIENF68_HWEVENT_CAPACITYRECORD	"14"

Table 960. Structure HWI_IPADDRESSARRAY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'F'	0	HWIENF68_HWEVENT_SECURITYEVENT	"15"
0	(0)	X'10'	0	HWIENF68_HWEVENT_DISABLEDWAIT	"16"
0	(0)	X'11'	0	HWIENF68_HWEVENT_POWERCHANGE	"17"
eventSource values The source of an ENF 68 event will have one of these values, which is passed in the eventSource field of an ENF buffer.					
0	(0)	X'0'	0	HWIENF68_EVENTSOURCE_NONE	"0"
0	(0)	X'1'	0	HWIENF68_EVENTSOURCE_CPC	"1"
0	(0)	X'2'	0	HWIENF68_EVENTSOURCE_CPCIMAGE	"2"

Table 961. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
120	(78)	SIGNED	4	HWI_FORCE_TYPE	
124	(7C)	CHARACTER	32	HWI_HWMSGTIMESTAMP_TYPE	
156	(9C)	CHARACTER	8	HWI_ORDERNUM_TYPE	
164	(A4)	CHARACTER	8	HWI_APPLNAME_TYPE	
172	(AC)	CHARACTER	127	HWI_OSCMDSTRING_TYPE	
299	(12B)	CHARACTER	4	HWI_LOADADDR_TYPE	
303	(12F)	CHARACTER	8	HWI_LOADPARM_TYPE	
311	(137)	CHARACTER	64	HWI_IPLTOKEN_TYPE	
375	(177)	CHARACTER	16	HWI_WW_PORTNAME_TYPE	
391	(187)	CHARACTER	17	HWI_LU_NUM_TYPE	
408	(198)	SIGNED	4	HWI_BOOT_PGM_SELECTOR_TYPE	
412	(19C)	CHARACTER	257	HWI_OPSYS_LOADPARM_TYPE	
669	(29D)	CHARACTER	16	HWI_BOOTREC_BLK_ADDR_TYPE	
685	(2AD)	CHARACTER	1	HWI_STP_ID_TYPE	01
685	(2AD)	X'1'	0	HWI_CMD_FORCE	"1"
685	(2AD)	X'2'	0	HWI_CMD_NOFORCE	"2"
685	(2AD)	X'1'	0	HWI_CMD_HWMSG_REFRESH	"1"
685	(2AD)	X'2'	0	HWI_CMD_HWMSG_DELETE	"2"
685	(2AD)	X'1'	0	HWI_CMD_ACT	"1"
685	(2AD)	X'2'	0	HWI_CMD_UNDO	"2"
685	(2AD)	X'1'	0	HWI_CMD_REAL	"1"
685	(2AD)	X'2'	0	HWI_CMD_TEST	"2"
685	(2AD)	X'1'	0	HWI_CMD_PROFILE_IMPORT	"1"
685	(2AD)	X'2'	0	HWI_CMD_PROFILE_EXPORT	"2"
685	(2AD)	X'1'	0	HWI_CMD_RESERVE_ADD	"1"
685	(2AD)	X'2'	0	HWI_CMD_RESERVE_DELETE	"2"
685	(2AD)	X'1'	0	HWI_CMD_RESET_NORMAL	"1"
685	(2AD)	X'2'	0	HWI_CMD_RESET_CLEAR	"2"
685	(2AD)	X'1'	0	HWI_CMD_PRIORITY	"1"
685	(2AD)	X'2'	0	HWI_CMD_NONPRIORITY	"2"
685	(2AD)	X'1'	0	HWI_CMD_TEMPCAP_ADD	"1"
685	(2AD)	X'2'	0	HWI_CMD_TEMPCAP_REMOVE	"2"

Table 962. Structure HWI_CMDPARMVALUE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HWI_CMDPARMVALUE	
0	(0)	X'0'	0	CMD_DATA	"*"
Mapping of the command input structure for an Activate command whose address is passed to HWICMD in the CmdParm_Ptr.					
0	(0)	CHARACTER	1	HWI_CMD_ACT_PARM_TYPE(0)	
0	(0)	CHARACTER	1	HWI_CMD_ACT_FORCETYPE	
Mapping of the command input structure for a Deactivate command whose address is passed to HWICMD in the CmdParm_Ptr.					
0	(0)	CHARACTER	1	HWI_CMD_DEACT_PARM_TYPE(0)	
0	(0)	CHARACTER	1	HWI_CMD_DEACT_FORCETYPE	
Mapping of the command input structure for a Hardware message command whose address is passed to HWICMD in the CmdParm_Ptr.					
0	(0)	CHARACTER	1	HWI_CMD_HWMSG_PARM_TYPE(0)	
0	(0)	SIGNED	4	HWI_CMD_HWMSG_HWMSGTYPE	
4	(4)	CHARACTER	1	HWI_CMD_HWMSG_HWMSGTIMESTAMP	
Mapping of the command input structure for a Capacity Backup command whose address is passed to HWICMD in the CmdParm_Ptr.					
0	(0)	CHARACTER	1	HWI_CMD_CBU_PARM_TYPE(0)	
0	(0)	SIGNED	4	HWI_CMD_CBU_CBUTYPE	
4	(4)	SIGNED	4	HWI_CMD_CBU_ACTIVATETYPE	
Mapping of the command input structure for an On/Off Capacity On Demand command whose address is passed to HWICMD in the CmdParm_Ptr.					
0	(0)	CHARACTER	1	HWI_CMD_OOCOD_PARM_TYPE(0)	
0	(0)	SIGNED	4	HWI_CMD_OOCOD_OOCODTYPE	
4	(4)	CHARACTER	1	HWI_CMD_OOCOD_ORDERNUMBER	
Mapping of the command input structure for a CPC Profile access command whose address is passed to HWICMD in the CmdParm_Ptr.					
0	(0)	CHARACTER	1	HWI_CMD_PROFILE_PARM_TYPE(0)	
0	(0)	SIGNED	4	HWI_CMD_PROFILE_PROFILETYPE	
4	(4)	SIGNED	2	HWI_CMD_PROFILE_AREANUMBER	
Mapping of the command input structure for a Reserve command whose address is passed to HWICMD in the CmdParm_Ptr.					
0	(0)	CHARACTER	1	HWI_CMD_RESERVE_PARM_TYPE(0)	
0	(0)	SIGNED	4	HWI_CMD_RESERVE_RESERVETYPE	
4	(4)	CHARACTER	1	HWI_CMD_RESERVE_APPLNAME	
Mapping of the command input structure for a System Reset command whose address is passed to HWICMD in the CmdParm_Ptr.					
0	(0)	CHARACTER	1	HWI_CMD_SYSRESET_PARM_TYPE(0)	
0	(0)	SIGNED	4	HWI_CMD_SYSRESET_RESETTYPE	
4	(4)	CHARACTER	1	HWI_CMD_SYSRESET_FORCETYPE	
Mapping of the command input structure for an Operating System command whose address is passed to HWICMD in the CmdParm_Ptr.					
0	(0)	CHARACTER	1	HWI_CMD_OSCMD_PARM_TYPE(0)	
0	(0)	SIGNED	4	HWI_CMD_OSCMD_PRIORITYTYPE	
4	(4)	CHARACTER	1	HWI_CMD_OSCMD_OSCMDSTRING	

Table 962. Structure HWI_CMDPARMVALUE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Mapping of the command input structure for the Load or Dump command whose address is passed to HWICMD in the CmdParm_Ptr.					
0	(0)	CHARACTER	1	HWI_CMD_LOADORDUMP_PARM_TYPE(0)	
0	(0)	CHARACTER	4	HWI_CMD_LOADORDUMP_LOADADDR	
4	(4)	CHARACTER	8	HWI_CMD_LOADORDUMP_LOADPARM	
12	(C)	CHARACTER	1	HWI_CMD_LOADORDUMP_FORCETYPE	
Mapping of the command input structure for the Temporary Capacity command whose address is passed to HWICMD in the CmdParm_Ptr.					
0	(0)	CHARACTER	1	HWI_CMD_TEMPCAP_PARM_TYPE(0)	
0	(0)	SIGNED	4	HWI_CMD_TEMPCAP_TEMPCAPTYPE	
4	(4)	ADDRESS	4	HWI_CMD_TEMPCAP_XML_PTR	
8	(8)	SIGNED	4	HWI_CMD_TEMPCAP_XML_SIZE	
Mapping of the command input structure for the System Reset with an IPL token command whose address is passed to HWICMD in the CmdParm_Ptr.					
0	(0)	CHARACTER	1	HWI_CMD_SYSRESET_IPLT_PARM_TYPE(0)	
0	(0)	SIGNED	4	HWI_CMD_SYSRESET_IPLT_RESETTYPE	
4	(4)	CHARACTER	4	HWI_CMD_SYSRESET_IPLT_FORCETYPE	
8	(8)	ADDRESS	4	HWI_CMD_SYSRESET_IPLT_IPLTOKEN_PTR	
12	(C)	SIGNED	4	HWI_CMD_SYSRESET_IPLT_IPLTOKEN_LEN	
Mapping of the command input structure for an Activate with an Activation profile command whose address is passed to HWICMD in the CmdParm_Ptr.					
0	(0)	CHARACTER	1	HWI_CMD_ACT_WITH_ACTPROF_PARM_TYPE(0)	
0	(0)	CHARACTER	1	HWI_CMD_ACT_WITH_ACTPROF_ACTPROFNAME	
16	(10)	CHARACTER	1	HWI_CMD_ACT_WITH_ACTPROF_FORCETYPE	
Mapping of the command input structure for both the SCSI Load and the SCSI Dump commands whose address is passed to HWICMD in the CmdParm_Ptr.					
0	(0)	CHARACTER	1	HWI_CMD_SCSICMD_PARM_TYPE(0)	
0	(0)	CHARACTER	4	HWI_CMD_SCSICMD_LOADADDR	
4	(4)	CHARACTER	8	HWI_CMD_SCSICMD_LOADPARM	
12	(C)	CHARACTER	16	HWI_CMD_SCSICMD_WW_PORTNAME	
28	(1C)	CHARACTER	16	HWI_CMD_SCSICMD_LU_NUM	
44	(2C)	CHARACTER	1	HWI_CMD_SCSICMD_BOOT_PGM_SELECTOR	
48	(30)	CHARACTER	1	HWI_CMD_SCSICMD_OPSYS_LOADPARM	
305	(131)	CHARACTER	3	HWI_CMD_SCSICMD_RSVD	
308	(134)	CHARACTER	1	HWI_CMD_SCSICMD_BOOTREC_BLK_ADDR	
324	(144)	CHARACTER	1	HWI_CMD_SCSICMD_FORCETYPE	
Max_CmdParmValue_Size is calculated after the largest cmd data mapping.					
324	(144)	X'148'	0	MAX_CMDPARMVALUE_SIZE	"*-HWI_CMDPARMVALUE"
Mapping of the command input structure for a Power Control command whose address is passed to HWICMD in the CmdParm_Ptr.					
0	(0)	CHARACTER	1	HWI_CMD_POWER_CONTROL_PARM_TYPE(0)	
0	(0)	ADDRESS	4	HWI_CMD_POWER_CONTROL_XML_PTR	
4	(4)	SIGNED	4	HWI_CMD_POWER_CONTROL_XML_SIZE	

Table 962. Structure HWI_CMDPARMVALUE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Mapping of the command input structure for the command which swaps the Current Time Server (from the preferred time server to the backup time server) whose address is passed to HWICMD in the CmdParm_Ptr.					
0	(0)	CHARACTER	1	HWI_CMD_SYSPLXTIME_SWAP_CTS_TYPE(0)	
0	(0)	CHARACTER	1	HWI_CMD_SYSPLXTIME_SWAP_STP_ID	
Mapping of the command input structure for the command which sets the configuration for a Server-Time-Protocol-only coordinated network command, whose address is passed to HWICMD in the CmdParm_Ptr.					
0	(0)	CHARACTER	1	HWI_CMD_SYSPLXTIME_SET_STP_CONFIG_TYPE(0)	
0	(0)	CHARACTER	8	HWI_CMD_SYSPLXTIME_SET_STP_ID	
8	(8)	CHARACTER	4	HWI_CMD_SYSPLXTIME_SET_FORCETYPE	
12	(C)	ADDRESS	4	HWI_CMD_SYSPLXTIME_SET_XML_PTR	
16	(10)	SIGNED	4	HWI_CMD_SYSPLXTIME_SET_XML_SIZE	
Mapping of the command input structure for the command which changes the Server Time Protocol Id for a Coordinated Timing Network, whose address is passed to HWICMD in the CmdParmPtr.					
0	(0)	CHARACTER	1	HWI_CMD_SYSPLXTIME_CHG_STPONLYCTN_TYPE(0)	
0	(0)	CHARACTER	1	HWI_CMD_SYSPLXTIME_CHG_STP_ID	
Mapping of the command input structure for the command which allows a CPC to join a Server-Time-Protocol-only coordinated timing network, whose address is passed to HWICMD in the CmdParm_Ptr.					
0	(0)	CHARACTER	1	HWI_CMD_SYSPLXTIME_JOIN_STPONLYCTN_TYPE(0)	
0	(0)	CHARACTER	1	HWI_CMD_SYSPLXTIME_JOIN_STP_ID	

Table 963. Structure HWI_EVENTIDS_TYPE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HWI_EVENTIDS_TYPE	
0	(0)	CHARACTER	12	HWI_EVENTID_EYECATCHER	
12	(C)	SIGNED	4	HWI_EVENTID_VALUE(0)	- Fullword label
Event masks to set the appropriate byte in the HWI_EVENTID_VALUE.					
12	(C)	BITSTRING	1	HWI_EVENTID1	- 1st byte of flags
		1...		HWI_EVENT_CMDRESP	"X'80'" -
		.1..		HWI_EVENT_STATUSCHG	"X'40'" -
		..1.		HWI_EVENT_NAMECHG	"X'20'" -
		...1		HWI_EVENT_ACTPROFCHG	"X'10'" -
		.... 1...		HWI_EVENT_OBJCREATE	"X'08'" -
		.... .1..		HWI_EVENT_OBJDESTROY	"X'04'" -
		.... ..1.		HWI_EVENT_OBJEXCEPTION	"X'02'" -
		1		HWI_EVENT_APPLSTARTED	"X'01'" -
13	(D)	BITSTRING	1	HWI_EVENTID2	- 2nd byte of flags
		1...		HWI_EVENT_APPLENDED	"X'80'" -
		.1..		HWI_EVENT_HWMSG	"X'40'" -
		..1.		HWI_EVENT_HWMSGDEL	"X'20'" -
		...1		HWI_EVENT_SECURITYEVENT	"X'10'" -
		.... 1...		HWI_EVENT_CAPACITYCHG	"X'08'" -

Table 963. Structure HWI_EVENTIDS_TYPE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		HWI_EVENT_CAPACITYRECORD	"X'04'" -
		.... ..1.		HWI_EVENT_OPSYSMSG	"X'02'" -
		1		HWI_EVENT_HWCOMMERROR	"X'01'" -
14	(E)	BITSTRING	1	HWI_EVENTID3	- 3rd byte of flags
		1...		HWI_EVENT_BCPIISTATUS	"X'80'" -
		.1..		HWI_EVENT_DISABLEDWAIT	"X'40'"
		..1.		HWI_EVENT_POWERCHANGE	"X'20'"

Table 964. Structure HWICMDPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HWICMDPARMLIST	
0	(0)	ADDRESS	4	HWICMDRETCODEPTR	Address of Command Retcode
4	(4)	ADDRESS	4	HWICMDCONNECTTOKENPTR	Address of Command Token
8	(8)	ADDRESS	4	HWICMDCMDTYPEPTR	Address of Command Command Type
12	(C)	ADDRESS	4	HWICMDCMDPARM_PTRPTR	Address of Command CmdParm Pointer
16	(10)	ADDRESS	4	HWICMDDIAGAREAPTR	Address of Command Diag Area

Table 965. Structure HWICONNPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HWICONNPARMLIST	
0	(0)	ADDRESS	4	HWICONNRETCODEPTR	Address of Connect Retcode
4	(4)	ADDRESS	4	HWICONNINCONNECTTOKENPTR	Address of Connect InConnect Token
8	(8)	ADDRESS	4	HWICONNOUTCONNECTTOKENPTR	Address of Connect OutConnect Token
12	(C)	ADDRESS	4	HWICONNCMDTYPEPTR	Address of Connect Command Type
16	(10)	ADDRESS	4	HWICONNTYPEVALUE_PTRPTR	Address of Connect Type Value Ptr
20	(14)	ADDRESS	4	HWICONNDIAGAREAPTR	Address of Connect Diag Area

Table 966. Structure HWIDISCPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HWIDISCPARMLIST	
0	(0)	ADDRESS	4	HWIDISCRETCODEPTR	Address of Disconnect Retcode
4	(4)	ADDRESS	4	HWIDISCCONNECTTOKENPTR	Address of Disconnect Token
8	(8)	ADDRESS	4	HWIDISCDIAGAREAPTR	Address of Disconnect Diag Area

Table 967. Structure HWIEVENTPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HWIEVENTPARMLIST	
0	(0)	ADDRESS	4	HWIEVENTRETCODEPTR	Address of Event Retcode
4	(4)	ADDRESS	4	HWIEVENTCONNECTTOKENPTR	Address of Event Connect Token
8	(8)	ADDRESS	4	HWIEVENTEVENTACTIONPTR	Address of Event Action

Table 967. Structure HWIEVENTPARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	ADDRESS	4	HWIEVENTEVENTIDSPTR	Address of Event EventIDs
16	(10)	ADDRESS	4	HWIEVENTEXITMODEPTR	Address of Event Exit Mode
20	(14)	ADDRESS	4	HWIEVENTEXITADDRPTR	Address of Event Exit Address
24	(18)	ADDRESS	4	HWIEVENTEXITPARMPTR	Address of Event Exit Parameters
28	(1C)	ADDRESS	4	HWIEVENTDIAGAREAPTR	Address of Event Diag Area

Table 968. Structure HWILISTPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HWILISTPARMLIST	
0	(0)	ADDRESS	4	HWILISTRETCODEPTR	Address of List Retcode
4	(4)	ADDRESS	4	HWILISTCONNECTTOKENPTR	Address of List Connect Token
8	(8)	ADDRESS	4	HWILISTTYPEPTR	Address of List List Type
12	(C)	ADDRESS	4	HWILISTNUMOFDATAITEMSRETURNEDPTR	Addr of List Num of Data Rtn
16	(10)	ADDRESS	4	HWILISTANSWERAREA_PTRPTR	Address of List Answer Area Ptr
20	(14)	ADDRESS	4	HWILISTANSWERAREALENPTR	Address of List Answer Area Len
24	(18)	ADDRESS	4	HWILISTDIAGAREAPTR	Address of List Diag Area

Table 969. Structure HWIQUERYPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HWIQUERYPARMLIST	
0	(0)	ADDRESS	4	HWIQUERYRETCODEPTR	Address of Query Retcode
4	(4)	ADDRESS	4	HWIQUERYCONNECTTOKENPTR	Address of Query Connect Token
8	(8)	ADDRESS	4	HWIQUERYPARMPTRPTR	Address of Query Parameter Pointer
12	(C)	ADDRESS	4	HWIQUERYNUMOFATTRIBUTESPTR	Address of Query Num of Attributes
16	(10)	ADDRESS	4	HWIQUERYDIAGAREAPTR	Address of Query Diag Area

Table 970. Structure HWISETPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HWISETPARMLIST	
0	(0)	ADDRESS	4	HWISETRETCODEPTR	Address of Set Retcode
4	(4)	ADDRESS	4	HWISETCONNECTTOKENPTR	Address of Set Connect Token
8	(8)	ADDRESS	4	HWISETTYPEPTR	Address of Set Type
12	(C)	ADDRESS	4	HWISETTYPEVALUEPTRPTR	Address of Set Type Value Pointer
16	(10)	ADDRESS	4	HWISETTYPEVALUELENPTR	Address of Set Type Value Length
20	(14)	ADDRESS	4	HWISETDIAGAREAPTR	Address of Set Diag Area

Table 971. Cross Reference for HWICIASM

Name	Offset	Hex Tag
ACTPROFCHG_EVENTOBJNAME_LENSTR	34	
ACTPROFCHG_EVENTOBJNAME_OFFSTR	30	
ACTPROFCHG_NEWPROFNAME_LENSTR	44	

Table 971. Cross Reference for HWICIASM (continued)

Name	Offset	Hex Tag
ACTPROFCHG_NEWPROFNAME_OFFSTR	40	
ACTPROFCHG_OLDPROFNAME_LENSTR	3C	
ACTPROFCHG_OLDPROFNAME_OFFSTR	38	
APPLENDED_CONSOLECOMP_LENSTR	40	
APPLENDED_CONSOLECOMP_OFFSTR	3C	
APPLENDED_EVENTOBJNAME_LENSTR	34	
APPLENDED_EVENTOBJNAME_OFFSTR	30	
APPLSTARTED_EVENTOBJNAME_LENSTR	34	
APPLSTARTED_EVENTOBJNAME_OFFSTR	30	
CAPACITYCHG_EVENTOBJNAME_OFFLEN	34	
CAPACITYCHG_EVENTOBJNAME_OFFSTR	30	
CAPACITYRECORD_EVENTOBJNAME_OFFLEN	34	
CAPACITYRECORD_EVENTOBJNAME_OFFSTR	30	
CMD_DATA	0	0
CMDRESP_EVENTOBJNAME_LENSTR	44	
CMDRESP_EVENTOBJNAME_OFFSTR	40	
DISABLEDWAIT_CPCSERIALNUM_LENSTR	44	
DISABLEDWAIT_CPCSERIALNUM_OFFSTR	40	
DISABLEDWAIT_PSWVALUE_LENSTR	34	
DISABLEDWAIT_PSWVALUE_OFFSTR	30	
EVENT_DATA	2D	30
HWI_ACTPROFNAME_TYPE	31	
HWI_APPLNAME_TYPE	A4	
HWI_BOOT_PGM_SELECTOR_TYPE	198	
HWI_BOOTREC_BLK_ADDR_TYPE	29D	
HWI_CAPRECNAME_TYPE	29	
HWI_CMD_ACT	2AD	1
HWI_CMD_ACT_FORCETYPE	0	
HWI_CMD_ACT_PARM_TYPE	0	
HWI_CMD_ACT_WITH_ACTPROF_ACTPROFNAME	0	
HWI_CMD_ACT_WITH_ACTPROF_FORCETYPE	10	
HWI_CMD_ACT_WITH_ACTPROF_PARM_TYPE	0	
HWI_CMD_CBU_ACTIVATETYPE	4	
HWI_CMD_CBU_CBUTYPE	0	
HWI_CMD_CBU_PARM_TYPE	0	
HWI_CMD_DEACT_FORCETYPE	0	
HWI_CMD_DEACT_PARM_TYPE	0	
HWI_CMD_FORCE	2AD	1
HWI_CMD_HWMSG_DELETE	2AD	2
HWI_CMD_HWMSG_HWMSGTIMESTAMP	4	
HWI_CMD_HWMSG_HWMSGTYPE	0	
HWI_CMD_HWMSG_PARM_TYPE	0	
HWI_CMD_HWMSG_REFRESH	2AD	1
HWI_CMD_LOADORDUMP_FORCETYPE	C	
HWI_CMD_LOADORDUMP_LOADADDR	0	
HWI_CMD_LOADORDUMP_LOADPARM	4	
HWI_CMD_LOADORDUMP_PARM_TYPE	0	
HWI_CMD_NOFORCE	2AD	2
HWI_CMD_NONPRIORITY	2AD	2

Table 971. Cross Reference for HWICIASM (continued)

Name	Offset	Hex Tag
HWI_CMD_OOCOD_OOCODTYPE	0	
HWI_CMD_OOCOD_ORDERNUMBER	4	
HWI_CMD_OOCOD_PARM_TYPE	0	
HWI_CMD_OSCMD_OSCMDSTRING	4	
HWI_CMD_OSCMD_PARM_TYPE	0	
HWI_CMD_OSCMD_PRIORITYTYPE	0	
HWI_CMD_POWER_CONTROL_PARM_TYPE	0	
HWI_CMD_POWER_CONTROL_XML_PTR	0	
HWI_CMD_POWER_CONTROL_XML_SIZE	4	
HWI_CMD_PRIORITY	2AD	1
HWI_CMD_PROFILE_AREANUMBER	4	
HWI_CMD_PROFILE_EXPORT	2AD	2
HWI_CMD_PROFILE_IMPORT	2AD	1
HWI_CMD_PROFILE_PARM_TYPE	0	
HWI_CMD_PROFILE_PROFILETYPE	0	
HWI_CMD_REAL	2AD	1
HWI_CMD_RESERVE_ADD	2AD	1
HWI_CMD_RESERVE_APPLNAME	4	
HWI_CMD_RESERVE_DELETE	2AD	2
HWI_CMD_RESERVE_PARM_TYPE	0	
HWI_CMD_RESERVE_RESERVETYPE	0	
HWI_CMD_RESET_CLEAR	2AD	2
HWI_CMD_RESET_NORMAL	2AD	1
HWI_CMD_SCSICMD_BOOT_PGM_SELECTOR	2C	
HWI_CMD_SCSICMD_BOOTREC_BLK_ADDR	134	
HWI_CMD_SCSICMD_FORCETYPE	144	
HWI_CMD_SCSICMD_LOADADDR	0	
HWI_CMD_SCSICMD_LOADPARM	4	
HWI_CMD_SCSICMD_LU_NUM	1C	
HWI_CMD_SCSICMD_OPSYS_LOADPARM	30	
HWI_CMD_SCSICMD_PARM_TYPE	0	
HWI_CMD_SCSICMD_RSVD	131	
HWI_CMD_SCSICMD_WW_PORTNAME	C	
HWI_CMD_SYSPLXTIME_CHG_STP_ID	0	
HWI_CMD_SYSPLXTIME_CHG_STPONLYCTN_TYPE	0	
HWI_CMD_SYSPLXTIME_JOIN_STP_ID	0	
HWI_CMD_SYSPLXTIME_JOIN_STPONLYCTN_TYPE	0	
HWI_CMD_SYSPLXTIME_SET_FORCETYPE	8	
HWI_CMD_SYSPLXTIME_SET_STP_CONFIG_TYPE	0	
HWI_CMD_SYSPLXTIME_SET_STP_ID	0	
HWI_CMD_SYSPLXTIME_SET_XML_PTR	C	
HWI_CMD_SYSPLXTIME_SET_XML_SIZE	10	
HWI_CMD_SYSPLXTIME_SWAP_CTS_TYPE	0	
HWI_CMD_SYSPLXTIME_SWAP_STP_ID	0	
HWI_CMD_SYSRESET_FORCETYPE	4	
HWI_CMD_SYSRESET_IPLT_FORCETYPE	4	
HWI_CMD_SYSRESET_IPLT_IPLTOKEN_LEN	C	
HWI_CMD_SYSRESET_IPLT_IPLTOKEN_PTR	8	
HWI_CMD_SYSRESET_IPLT_PARM_TYPE	0	

Table 971. Cross Reference for HWICIASM (continued)

Name	Offset	Hex Tag
HWI_CMD_SYSRESET_IPLT_RESETTYPE	0	
HWI_CMD_SYSRESET_PARM_TYPE	0	
HWI_CMD_SYSRESET_RESETTYPE	0	
HWI_CMD_TEMPCAP_ADD	2AD	1
HWI_CMD_TEMPCAP_PARM_TYPE	0	
HWI_CMD_TEMPCAP_REMOVE	2AD	2
HWI_CMD_TEMPCAP_TEMPCAPTYPE	0	
HWI_CMD_TEMPCAP_XML_PTR	4	
HWI_CMD_TEMPCAP_XML_SIZE	8	
HWI_CMD_TEST	2AD	2
HWI_CMD_UNDO	2AD	2
HWI_CMDPARMVALUE	0	
HWI_CONNTOKEN_TYPE	0	
HWI_CPCNETADDR_TYPE	10	
HWI_CPCSERIALNUM_TYPE	5F	
HWI_CPU_ID	0	
HWI_CPU_PSW	4	
HWI_CPUENTRY	0	
HWI_CPUENTRY_SIZE	10	14
HWI_DIAGAREA_DIAG_ACTUAL	8	
HWI_DIAGAREA_DIAG_COMMERR	10	
HWI_DIAGAREA_DIAG_EXPECTED	C	
HWI_DIAGAREA_DIAG_INDEX	0	
HWI_DIAGAREA_DIAG_KEY	4	
HWI_DIAGAREA_DIAG_TEXT	14	
HWI_DIAGAREA_TYPE	0	
HWI_DIAGAREA_TYPE_LENGTH	14	20
HWI_EVENT_ACTPROFCHG	C	10
HWI_EVENT_APPLENDED	D	80
HWI_EVENT_APPLSTARTED	C	1
HWI_EVENT_BCPIISTATUS	E	80
HWI_EVENT_CAPACITYCHG	D	8
HWI_EVENT_CAPACITYRECORD	D	4
HWI_EVENT_CMDRESP	C	80
HWI_EVENT_DISABLEDWAIT	E	40
HWI_EVENT_HWCOMMERROR	D	1
HWI_EVENT_HWMSG	D	40
HWI_EVENT_HWMSGDEL	D	20
HWI_EVENT_NAMECHG	C	20
HWI_EVENT_OBJCREATE	C	8
HWI_EVENT_OBJDESTROY	C	4
HWI_EVENT_OBJEXCEPTION	C	2
HWI_EVENT_OPSYSMSG	D	2
HWI_EVENT_POWERCHANGE	E	20
HWI_EVENT_SECURITYEVENT	D	10
HWI_EVENT_STATUSCHG	C	40
HWI_EVENTID_EYECATCHER	0	
HWI_EVENTID_VALUE	C	
HWI_EVENTIDS_TYPE	0	

Table 971. Cross Reference for HWICIASM (continued)

Name	Offset	Hex Tag
HWI_EVENTID1	C	
HWI_EVENTID2	D	
HWI_EVENTID3	E	
HWI_FORCE_TYPE	78	
HWI_HWMSGTIMESTAMP_TYPE	7C	
HWI_IMAGEGROUPNAME_TYPE	41	
HWI_IMAGENAME_TYPE	21	
HWI_IPADDRESS	0	
HWI_IPADDRESS_SIZE	0	27
HWI_IPADDRESSARRAY	0	
HWI_IPADDRLISTRETURNDATA_TYPE	0	
HWI_IPLTOKEN_TYPE	137	
HWI_LOADADDR_TYPE	12B	
HWI_LOADPARM_TYPE	12F	
HWI_LU_NUM_TYPE	187	
HWI_NUMBEROFCPUIDS	0	
HWI_NUMBEROFIPADDRESSES	0	
HWI_NUMBEROFPOWERSAVINGSMODES	0	
HWI_OPSYS_LOADPARM_TYPE	19C	
HWI_ORDERNUM_TYPE	9C	
HWI_OSCMDSTRING_TYPE	AC	
HWI_POWERSAVINGSMODE	0	
HWI_POWERSAVINGSMODE_SIZE	0	4
HWI_POWERSAVINGSMODEARRAY	0	
HWI_POWERSAVINGSMODESRETURNDATA	0	
HWI_PSWWORD1	4	
HWI_PSWWORD2	8	
HWI_PSWWORD3	C	
HWI_PSWWORD4	10	
HWI_QUERYPARM_ATTRIBUTEIDENTIFIER	0	
HWI_QUERYPARM_ATTRIBUTEVALUE_PTR	4	
HWI_QUERYPARM_ATTRIBUTEVALUELEN	8	
HWI_QUERYPARM_ATTRIBUTEVALUELENRETURNED	C	
HWI_QUERYPARM_TYPE	0	
HWI_QUERYPARM_TYPE_LENGTH	C	10
HWI_RETURNDATA	0	
HWI_SETTYPEVALUE_PARM	0	
HWI_SETTYPEVALUE_PARM_INTEGER	0	
HWI_SETTYPEVALUE_PARM_STRINGDATA	0	
HWI_STP_ID_TYPE	2AD	
HWI_WW_PORTNAME_TYPE	177	
HWICMDCMDPARM_PTRPTR	C	
HWICMDCMDTYPEPTR	8	
HWICMDCONNECTTOKENPTR	4	
HWICMDDIAGAREAPTR	10	
HWICMDPARMLIST	0	
HWICMDRETCODEPTR	0	
HWICONNCMDTYPEPTR	C	
HWICONNDIAGAREAPTR	14	

Table 971. Cross Reference for HWICIASM (continued)

Name	Offset	Hex Tag
HWICONNINCONNECTTOKENPTR	4	
HWICONNOUTCONNECTTOKENPTR	8	
HWICONNPARMLIST	0	
HWICONNRETCODEPTR	0	
HWICONNTYPEVALUE_PTRPTR	10	
HWIDISCCONNECTTOKENPTR	4	
HWIDISCDIAGAREAPTR	8	
HWIDISCPARMLIST	0	
HWIDISCRETCODEPTR	0	
HWIENF68	0	
HWIENF68_ACTIVATE_CBU_COMMAND	4	E
HWIENF68_ACTIVATE_COMMAND	4	1
HWIENF68_ACTIVATE_OOCOD_COMMAND	4	17
HWIENF68_ACTPROFCHG_EVENTOBJNAME	30	
HWIENF68_ACTPROFCHG_NEWPROFNAME	40	
HWIENF68_ACTPROFCHG_OLDPROFNAME	38	
HWIENF68_ACTPROFCHG_T	30	
HWIENF68_ADD_CAPACITY_COMMAND	4	19
HWIENF68_APPLENDED_CONSOLECOMP	3C	
HWIENF68_APPLENDED_EVENTOBJNAME	30	
HWIENF68_APPLENDED_REASON	38	
HWIENF68_APPLENDED_SHUTDOWNTYPE	44	
HWIENF68_APPLENDED_T	30	
HWIENF68_APPLSTARTED_EVENTOBJNAME	30	
HWIENF68_APPLSTARTED_T	30	
HWIENF68_BCPIISTATUS_AVAIL	0	1
HWIENF68_BCPIISTATUS_UNAVAIL	0	2
HWIENF68_BOOL_T	70	
HWIENF68_CAPACITYCHG_CAPCHANGE	38	
HWIENF68_CAPACITYCHG_EVENTOBJNAME	30	
HWIENF68_CAPACITYCHG_T	30	
HWIENF68_CAPACITYRECORD_CAPRECCHANGE	38	
HWIENF68_CAPACITYRECORD_EVENTOBJNAME	30	
HWIENF68_CAPACITYRECORD_T	30	
HWIENF68_CATCHER	4	
HWIENF68_CMDRESP_CMDRETCODE	4C	
HWIENF68_CMDRESP_CMDTYPE	48	
HWIENF68_CMDRESP_CONNECTTOKEN	30	
HWIENF68_CMDRESP_EVENTOBJNAME	40	
HWIENF68_CMDRESP_LASTRESPONSE	50	
HWIENF68_CMDRESP_T	30	
HWIENF68_CPCNAME	14	
HWIENF68_CURRVERS	4	2
HWIENF68_DATATLEN	0	
HWIENF68_DATAVERS	C	
HWIENF68_DEACTIVATE_COMMAND	4	2
HWIENF68_DISABLEDWAIT_CPCSERIALNUM	40	
HWIENF68_DISABLEDWAIT_PARTITIONID	38	
HWIENF68_DISABLEDWAIT_PROCESSORNUM	3C	

Table 971. Cross Reference for HWICIASM (continued)

Name	Offset	Hex Tag
HWIENF68_DISABLEDWAIT_PSWVALUE	30	
HWIENF68_DISABLEDWAIT_T	30	
HWIENF68_EVENTSOURCE	12	
HWIENF68_EVENTSOURCE_CPC	0	1
HWIENF68_EVENTSOURCE_CPCIMAGE	0	2
HWIENF68_EVENTSOURCE_NONE	0	0
HWIENF68_EVENTSUBTYPE	10	
HWIENF68_EVENTTYPE	E	
HWIENF68_EVENTTYPE_BCPIISTATUS	0	1
HWIENF68_EVENTTYPE_HWCOMMERROR	0	2
HWIENF68_EVENTTYPE_HWEVENT	0	3
HWIENF68_EXPORT_PROFILE_COMMAND	4	11
HWIENF68_EXTERNAL_INTERRUPT_COMMAND	4	13
HWIENF68_FALSE	0	0
HWIENF68_HW_MESSAGE_DELETE_COMMAND	4	D
HWIENF68_HW_MESSAGE_REFRESH_COMMAND	4	B
HWIENF68_HWCOMMERROR_AVAIL	0	3
HWIENF68_HWCOMMERROR_PERM	0	2
HWIENF68_HWCOMMERROR_TEMP	0	1
HWIENF68_HWEVENT_ACTPROFCHG	0	4
HWIENF68_HWEVENT_APPLENDED	0	9
HWIENF68_HWEVENT_APPLSTARTED	0	8
HWIENF68_HWEVENT_CAPACITYCHG	0	D
HWIENF68_HWEVENT_CAPACITYRECORD	0	E
HWIENF68_HWEVENT_CMDRESP	0	1
HWIENF68_HWEVENT_DISABLEDWAIT	0	10
HWIENF68_HWEVENT_HWMSG	0	B
HWIENF68_HWEVENT_HWMSGDEL	0	C
HWIENF68_HWEVENT_NAMECHG	0	3
HWIENF68_HWEVENT_OBJCREATE	0	5
HWIENF68_HWEVENT_OBJDESTROY	0	6
HWIENF68_HWEVENT_OBJEXCEPTION	0	7
HWIENF68_HWEVENT_OPSYSMSG	0	A
HWIENF68_HWEVENT_POWERCHANGE	0	11
HWIENF68_HWEVENT_SECURITYEVENT	0	F
HWIENF68_HWEVENT_STATUSCHG	0	2
HWIENF68_HWMSG_EVENTOBJNAME	30	
HWIENF68_HWMSG_IMAGELIST	4C	
HWIENF68_HWMSG_MSGTEXT	40	
HWIENF68_HWMSG_MSGTIMESTAMP	38	
HWIENF68_HWMSG_NEWMSG	48	
HWIENF68_HWMSG_T	30	
HWIENF68_HWMSGDEL_DELTIMESTAMP	38	
HWIENF68_HWMSGDEL_EVENTOBJNAME	30	
HWIENF68_HWMSGDEL_IMAGELIST	48	
HWIENF68_HWMSGDEL_MSGTEXT	40	
HWIENF68_HWMSGDEL_T	30	
HWIENF68_IMAGENAME	25	
HWIENF68_IMPORT_PROFILE_COMMAND	4	10

Table 971. Cross Reference for HWICIASM (continued)

Name	Offset	Hex Tag
HWIENF68_INITIALIZE_API	4	8
HWIENF68_INT_T	6C	
HWIENF68_LOAD_COMMAND	4	A
HWIENF68_NAMECHG_NEWOBJNAME	38	
HWIENF68_NAMECHG_OBJECTTYPE	40	
HWIENF68_NAMECHG_OLDOBJNAME	30	
HWIENF68_NAMECHG_T	30	
HWIENF68_OBJCREATE_EVENTOBJNAME	30	
HWIENF68_OBJCREATE_OBJECTTYPE	38	
HWIENF68_OBJCREATE_T	30	
HWIENF68_OBJDESTROY_EVENTOBJNAME	30	
HWIENF68_OBJDESTROY_OBJECTTYPE	38	
HWIENF68_OBJDESTROY_T	30	
HWIENF68_OBJEXCEPTION_EVENTOBJNAME	30	
HWIENF68_OBJEXCEPTION_EXCEPTIONSTATE	38	
HWIENF68_OBJEXCEPTION_OBJECTTYPE	3C	
HWIENF68_OBJEXCEPTION_T	30	
HWIENF68_OPSYSMSG_ALARMMSG	68	
HWIENF68_OPSYSMSG_EVENTOBJNAME	30	
HWIENF68_OPSYSMSG_HELDMSG	70	
HWIENF68_OPSYSMSG_MSGDATE	48	
HWIENF68_OPSYSMSG_MSGID	40	
HWIENF68_OPSYSMSG_MSGTEXT	38	
HWIENF68_OPSYSMSG_MSGTIME	50	
HWIENF68_OPSYSMSG_NEWMSG	74	
HWIENF68_OPSYSMSG_OPSYSNAME	60	
HWIENF68_OPSYSMSG_PRIORITYMSG	6C	
HWIENF68_OPSYSMSG_PROMPTTEXT	58	
HWIENF68_OPSYSMSG_T	30	
HWIENF68_PSWRESTART_COMMAND	4	7
HWIENF68_PWRCHG_NEWPOWERMODEVALUE	30	
HWIENF68_PWRCHG_NEWPWRSAVEMODEALLOWD	38	
HWIENF68_PWRCHG_OLDPOWERMODEVALUE	34	
HWIENF68_PWRCHG_OLDPWRSAVEMODEALLOWD	3C	
HWIENF68_PWRCHG_T	30	
HWIENF68_REMOVE_CAPACITY_COMMAND	4	1A
HWIENF68_RESERVE_COMMAND	4	12
HWIENF68_RESETCLEAR_COMMAND	4	C
HWIENF68_RESETNORMAL_COMMAND	4	4
HWIENF68_SCSI_DUMP_COMMAND	4	15
HWIENF68_SCSI_LOAD_COMMAND	4	14
HWIENF68_SECURITYEVENT_EVENTOBJNAME	30	
HWIENF68_SECURITYEVENT_LOGTEXT	40	
HWIENF68_SECURITYEVENT_LOGTIMESTAMP	38	
HWIENF68_SECURITYEVENT_T	30	
HWIENF68_SEND_OPSYS_COMMAND	4	3
HWIENF68_SHORT_T	74	
HWIENF68_SHUTDOWN_RESTART_COMMAND	4	16
HWIENF68_START_COMMAND	4	5

Table 971. Cross Reference for HWICIASM (continued)

Name	Offset	Hex Tag
HWIENF68_STATUSCHG_EVENTOBJNAME	30	
HWIENF68_STATUSCHG_NEWSTATUS	3C	
HWIENF68_STATUSCHG_OLDSTATUS	38	
HWIENF68_STATUSCHG_T	30	
HWIENF68_STOP_COMMAND	4	6
HWIENF68_STRING_LENSTR	4	
HWIENF68_STRING_OFFSTR	0	
HWIENF68_STRING_T	0	
HWIENF68_TERMINATE_API	4	9
HWIENF68_TRUE	0	1
HWIENF68_UNDO_CBU_COMMAND	4	F
HWIENF68_UNDO_OOCOD_COMMAND	4	18
HWIENF68_UNKNOWN_COMMAND	4	0
HWIENF68_VERS1	4	1
HWIENF68_VERS2	4	2
HWIEVENTCONNECTTOKENPTR	4	
HWIEVENTDIAGAREAPTR	1C	
HWIEVENTEVENTACTIONPTR	8	
HWIEVENTEVENTIDSPTR	C	
HWIEVENTEXITADDRPTR	14	
HWIEVENTEXITMODEPTR	10	
HWIEVENTEXITPARMPTR	18	
HWIEVENTPARMLIST	0	
HWIEVENTRETCODEPTR	0	
HWILISTANSWERAREA_PTRPTR	10	
HWILISTANSWERAREALENPTR	14	
HWILISTCONNECTTOKENPTR	4	
HWILISTDIAGAREAPTR	18	
HWILISTNUMOFDATAITEMSRETURNEDPTR	C	
HWILISTPARMLIST	0	
HWILISTRETCODEPTR	0	
HWILISTTYPEPTR	8	
HWIQUERYCONNECTTOKENPTR	4	
HWIQUERYDIAGAREAPTR	10	
HWIQUERYNUMOFATTRIBUTESPTR	C	
HWIQUERYPARMLIST	0	
HWIQUERYPARMPTRPTR	8	
HWIQUERYRETCODEPTR	0	
HWISETCONNECTTOKENPTR	4	
HWISETDIAGAREAPTR	14	
HWISETPARMLIST	0	
HWISETRETCODEPTR	0	
HWISETTYPEPTR	8	
HWISETTYPEVALUELENPTR	10	
HWISETTYPEVALUEPTRPTR	C	
HWMSG_EVENTOBJNAME_LENSTR	34	
HWMSG_EVENTOBJNAME_OFFSTR	30	
HWMSG_IMAGELIST_LENSTR	50	
HWMSG_IMAGELIST_OFFSTR	4C	

Table 971. Cross Reference for HWICIASM (continued)

Name	Offset	Hex Tag
HWMSG_MSGTEXT_LENSTR	44	
HWMSG_MSGTEXT_OFFSTR	40	
HWMSG_MSGTIMESTAMP_LENSTR	3C	
HWMSG_MSGTIMESTAMP_OFFSTR	38	
HWMSGDEL_DELTIMESTAMP_LENSTR	3C	
HWMSGDEL_DELTIMESTAMP_OFFSTR	38	
HWMSGDEL_EVENTOBJNAME_LENSTR	34	
HWMSGDEL_EVENTOBJNAME_OFFSTR	30	
HWMSGDEL_IMAGELIST_LENSTR	4C	
HWMSGDEL_IMAGELIST_OFFSTR	48	
HWMSGDEL_MSGTEXT_LENSTR	44	
HWMSGDEL_MSGTEXT_OFFSTR	40	
MAX_CMDPARMVALUE_SIZE	144	148
MAX_EVENTDATA_SIZE	74	78
NAMECHG_NEWOBJNAME_LENSTR	3C	
NAMECHG_NEWOBJNAME_OFFSTR	38	
NAMECHG_OLDOBJNAME_LENSTR	34	
NAMECHG_OLDOBJNAME_OFFSTR	30	
OBJCREATE_EVENTOBJNAME_LENSTR	34	
OBJCREATE_EVENTOBJNAME_OFFSTR	30	
OBJDESTROY_EVENTOBJNAME_LENSTR	34	
OBJDESTROY_EVENTOBJNAME_OFFSTR	30	
OBJEXCEPTION_EVENTOBJNAME_LENSTR	34	
OBJEXCEPTION_EVENTOBJNAME_OFFSTR	30	
OPSYSMSG_EVENTOBJNAME_LENSTR	34	
OPSYSMSG_EVENTOBJNAME_OFFSTR	30	
OPSYSMSG_MSGDATE_LENSTR	4C	
OPSYSMSG_MSGDATE_OFFSTR	48	
OPSYSMSG_MSGID_LENSTR	44	
OPSYSMSG_MSGID_OFFSTR	40	
OPSYSMSG_MSGTEXT_LENSTR	3C	
OPSYSMSG_MSGTEXT_OFFSTR	38	
OPSYSMSG_MSGTIME_LENSTR	54	
OPSYSMSG_MSGTIME_OFFSTR	50	
OPSYSMSG_OPSYSNAME_LENSTR	64	
OPSYSMSG_OPSYSNAME_OFFSTR	60	
OPSYSMSG_PROMPTTEXT_LENSTR	5C	
OPSYSMSG_PROMPTTEXT_OFFSTR	58	
SECURITYEVENT_EVENTOBJNAME_OFFLEN	34	
SECURITYEVENT_EVENTOBJNAME_OFFSTR	30	
SECURITYEVENT_LOGTEXT_LENSTR	44	
SECURITYEVENT_LOGTEXT_OFFSTR	40	
SECURITYEVENT_LOGTIMESTAMP_OFFLEN	3C	
SECURITYEVENT_LOGTIMESTAMP_OFFSTR	38	
SET_DATA	0	0
STATUSCHG_EVENTOBJNAME_LENSTR	34	
STATUSCHG_EVENTOBJNAME_OFFSTR	30	

Chapter 236. HWIC2ASM Information

HWIC2ASM Programming Interface Information

HWIC2ASM is a programming interface.

HWIC2ASM Heading Information

Common Name:	Assembler Interface Definition File for the Base Control Program Internal Interface
Macro ID:	HWIC2ASM
DSECT Name:	n/a
Owning Component:	BCPII (SCHWI)
Eye-Catcher ID:	none
Storage Attributes:	
Size:	n/a
Created by:	n/a
Pointed to by:	n/a
Serialization:	n/a
Function:	HWIC2ASM defines BCPII Constants and declares for programs written in the Assembler language which are required for the HWMCA services.

HWIC2ASM mapping

Table 972. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

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Table 972. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
START OF SPECIFICATIONS Macro Name: HWIC2ASM Descriptive Name: Assembler Interface Definition File for the Base Control Program Internal Interface Acronym: none Proprietary statement: LICENSED MATERIALS - PROPERTY OF IBM 5650-ZOS COPYRIGHT IBM CORP. 2008,2013 STATUS= HBB7750,HBB77A0 DSECT Name: n/a Component: BCPII (SCHWI) External Classification: PI End of External Classification: Eye-Catcher: none Storage Attributes: Subpool: Key: Residency: Function: HWIC2ASM defines BCPII Constants and declares for programs written in the Assembler language which are required for the HWMCA services. Method of Access: macro HWIC2ASM Created by: n/a Pointed to by: n/a Size: n/a Serialization: n/a Change Activity: PN REASON RLSE DATE ORG COMMENTS $P0= ME12428 HBB7750 080310 PDRH: BCP Internal Interface (BCPii), Initial release in the BCP. Assembler interface declarations for the HWMCA services. $L1= ME16401 HBB7770 090531 PDSCW: Add support for Power Save $01= OA30373 HBB7750 091001 PDRH: Add declarations for some new constants. Fix the length calculations for the max and min event buffer size constants. $02= OA31327 HBB7760 091220 PDSCW: Add store status and load type attributes $03= OA30558 HBB7750 100722 PDSCW: Support for power save mode $04= OA36407 HBB7750 101031 PDSCW: Remove unnecessary definitions and improve documentation $05= OA37157 HBB7760 111115 PDLH: New API attributes $06= OA35338 HBB7760 120131 PDLH: Add missing constants $P1= ME23555 HBB7790 120313 PDRH: Restore Hwmca_True and Hwmca_False constants. $P2= ME23824 HBB7790 120401 PDLH: Update copyright info					
$07= OA40392 HBB7750 121031 PDSCW: Toleration support for zEC12 processor. $P3= ME28955 HBB77A0 150302 PDLH: Change HWMCA_IML_ZAWARE_MODE END OF SPECIFICATIONS					
0	(0)	X'1'	0	HWMCA_TRUE	"1"
0	(0)	X'0'	0	HWMCA_FALSE	"0"
Defines for the CPC Managed Object Degraded Indicator. (Possible values for the BCPii HWI_DGRSTAT attribute)					
	....	....		HWMCA_NOT_DEGRADED	"X'0000'"

Table 972. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		HWMCA_DEGRADED_MEM	"X'0001'"
		.... ..1.		HWMCA_DEGRADED_MBA	"X'0002'"
		.... .1..		HWMCA_DEGRADED_NODE	"X'0004'"
		.... 1...		HWMCA_DEGRADED_RING	"X'0008'"
		...1		HWMCA_DEGRADED_CBU	"X'0010'"
		..1.		HWMCA_DEGRADED_MRU	"X'0020'"
		.1..		HWMCA_DEGRADED_AMBIENT	"X'0040'"
		1...		HWMCA_DEGRADED_MRU_IML	"X'0080'"
Defines for the Hardware Management Console Status Values. (Possible values for the BCPii HWI_OPERSTAT and HWI_ACCSTAT attributes, as well as the possible values returned on the BCPii STATUSCHG event)					
		1		HWMCA_STATUS_OPERATING	"X'00000001'"
		.... ..1.		HWMCA_STATUS_NOT_OPERATING	"X'00000002'"
		.... .1..		HWMCA_STATUS_NO_POWER	"X'00000004'"
		.... 1...		HWMCA_STATUS_NOT_ACTIVATED	"X'00000008'"
		...1		HWMCA_STATUS_EXCEPTIONS	"X'00000010'"
		..1.		HWMCA_STATUS_STATUS_CHECK	"X'00000020'"
		.1..		HWMCA_STATUS_SERVICE	"X'00000040'"
		1...		HWMCA_STATUS_LINKNOTACTIVE	"X'00000080'"
0	(0)	BITSTRING	0	HWMCA_STATUS_POWERSAVE	"X'00000100'"
0	(0)	BITSTRING	0	HWMCA_STATUS_SERIOUSALERT	"X'00000200'"
0	(0)	BITSTRING	0	HWMCA_STATUS_ALERT	"X'00000400'"
0	(0)	BITSTRING	0	HWMCA_STATUS_ENVALERT	"X'00000800'"
0	(0)	BITSTRING	0	HWMCA_STATUS_SERVICE_REQ	"X'00001000'"
0	(0)	BITSTRING	0	HWMCA_STATUS_DEGRADED	"X'00002000'"
		....		HWMCA_STATUS_STORAGE_EXCEEDED	"X'01000000'"
		....		HWMCA_STATUS_LOGOFF_TIMEOUT	"X'02000000'"
		....		HWMCA_STATUS_FORCED_SLEEP	"X'04000000'"
		....		HWMCA_STATUS_IMAGE_NOT_OPERATING	"X'08000000'"
		....		HWMCA_STATUS_IMAGE_NOT_ACTIVATED	"X'10000000'"
		....		HWMCA_STATUS_IMAGE_NOT_CAPABLE	"X'20000000'"
		....		HWMCA_STATUS_UNKNOWN	"X'40000000'"
Defines for the Hardware Management Console IML Mode Values. (Possible values for the BCPii HWI_IMLMODE attribute)					
0	(0)	X'1'	0	HWMCA_IML_ESA390_MODE	"1"
0	(0)	X'2'	0	HWMCA_IML_S370_MODE	"2"
0	(0)	X'6'	0	HWMCA_IML_FM_MODE	"6"
0	(0)	X'7'	0	HWMCA_IML_FMAE_MODE	"7"
0	(0)	X'8'	0	HWMCA_IML_HM_MODE	"8"
0	(0)	X'9'	0	HWMCA_IML_HMEA_MODE	"9"
0	(0)	X'A'	0	HWMCA_IML_HMEX_MODE	"10"
0	(0)	X'B'	0	HWMCA_IML_LPAR_MODE	"11"
0	(0)	X'C'	0	HWMCA_IML_ESA390TPF_MODE	"12"
0	(0)	X'D'	0	HWMCA_IML_CF_PROD_MODE	"13"
0	(0)	X'E'	0	HWMCA_IML_FMEX_MODE	"14"

Table 972. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'F'	0	HWMCA_IML_HMAS_MODE	"15"
0	(0)	X'10'	0	HWMCA_IML_LINUXO_MODE	"16"
0	(0)	X'12'	0	HWMCA_IML_ZVM_MODE	"18"
0	(0)	X'14'	0	HWMCA_IML_ZAWARE_MODE	"20"
Defines for the Hardware Management Console IPL Type Values. (Possible values for the BCPii HWI_IPL_TYPE attribute)					
0	(0)	X'1'	0	HWMCA_IPLTYPE_STANDARD	"1"
0	(0)	X'2'	0	HWMCA_IPLTYPE_SCSI	"2"
0	(0)	X'3'	0	HWMCA_IPLTYPE_SCSIDUMP	"3"
Hardware Management Console Load Type Values. (Possible values for the BCPii HWI_APROF_LOADTYPE attribute)					
0	(0)	X'0'	0	HWMCA_LOADTYPE_NORMAL	"0"
0	(0)	X'1'	0	HWMCA_LOADTYPE_CLEAR	"1"
Defines for the Hardware Management Console Object Type Values. (Possible values for the BCPii HWI_OBJTYPE attribute and possible values returned as the "objectType" on the BCPii NAMECHG, OBJCREATE, OBJDESTROY and OBJEXCEPTION events)					
0	(0)	X'1'	0	HWMCA_CPC_GROUP	"1"
0	(0)	X'2'	0	HWMCA_CPC_IMAGE_GROUP	"2"
0	(0)	X'3'	0	HWMCA_CPC_USER_GROUP	"3"
0	(0)	X'4'	0	HWMCA_CPC_IMAGE_USER_GROUP	"4"
0	(0)	X'5'	0	HWMCA_CPC_OBJECT	"5"
0	(0)	X'6'	0	HWMCA_CPC_IMAGE_OBJECT	"6"
0	(0)	X'7'	0	HWMCA_CF_OBJECT	"7"
0	(0)	X'8'	0	HWMCA_ACT_PROFILE_RESET	"8"
0	(0)	X'9'	0	HWMCA_ACT_PROFILE_IMAGE	"9"
0	(0)	X'A'	0	HWMCA_ACT_PROFILE_LOAD	"10"
0	(0)	X'B'	0	HWMCA_ACT_PROFILE_GROUP	"11"
0	(0)	X'C'	0	HWMCA_CAPACITY_RECORD	"12"
0	(0)	X'D'	0	HWMCA_VM_GROUP	"13"
0	(0)	X'E'	0	HWMCA_VM_OBJECT	"14"
0	(0)	X'F'	0	HWMCA_ZBX_GROUP	"15"
0	(0)	X'10'	0	HWMCA_ZBX_OBJECT	"16"
0	(0)	X'11'	0	HWMCA_ZBX_CHASSIS_OBJECT	"17"
Defines for the Hardware Management Console Shutdown/Restart Types. (Possible values returned for the "shutdowntype" in a BCPii APPLENDED event.)					
0	(0)	X'1'	0	HWMCA_RESTART_APPLICATION	"1"
0	(0)	X'2'	0	HWMCA_RESTART_CONSOLE	"2"
0	(0)	X'3'	0	HWMCA_SHUTDOWN_CONSOLE	"3"
0	(0)	X'4'	0	HWMCA_RESTART_APPLICATION_ALTERNATE	"4"
0	(0)	X'5'	0	HWMCA_RESTART_CONSOLE_ALTERNATE	"5"
0	(0)	X'6'	0	HWMCA_SHUTDOWN_CONSOLE_ALTERNATE	"6"
Defines for the Hardware Management Console Ended Event Reasons. (Possible values returned for the "reason" in the BCPii APPLENDED event.)					
0	(0)	X'1'	0	HWMCA_ENDED_USER	"1"

Table 972. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'2'	0	HWMCA_ENDED_AUTOMATION	"2"
0	(0)	X'3'	0	HWMCA_ENDED_OTHER	"3"
Defines for the Hardware Management Console Processor Running Time types. (Possible values for the BCPii HWI_PRUNTYPE attribute)					
0	(0)	X'0'	0	HWMCA_DETERMINED_SYSTEM	"0"
0	(0)	X'1'	0	HWMCA_DETERMINED_USER	"1"
Defines for the type of capacity record. (Possible values for the BCPii HWI_RECTYPE attribute)					
0	(0)	X'1'	0	HWMCA_CAPACITY_RECORD_TYPE_CBU	"1"
0	(0)	X'2'	0	HWMCA_CAPACITY_RECORD_TYPE_OOCOD	"2"
0	(0)	X'3'	0	HWMCA_CAPACITY_RECORD_TYPE_PLANNED_EVENT	"3"
0	(0)	X'4'	0	HWMCA_CAPACITY_RECORD_TYPE_LOANER	"4"
Defines for the activation status of a capacity record. (Possible values for the BCPii HWI_ACTSTAT attribute)					
0	(0)	X'1'	0		"1"
0	(0)	X'2'	0	HWMCA_CAPACITY_RECORD_STATUS_REAL	"2"
0	(0)	X'3'	0	HWMCA_CAPACITY_RECORD_STATUS_TEST	"3"
0	(0)	X'4'	0		"4"
Defines for the type of capacity record change event. (Possible values returned for the "capChange" in the BCPii CAPACITYCHG event.)					
0	(0)	X'0'	0	HWMCA_CAPACITY_FENCED_BOOK	"0"
0	(0)	X'1'	0	HWMCA_CAPACITY_DEFECTIVE_PROCESSOR	"1"
0	(0)	X'2'	0	HWMCA_CAPACITY_CONCURRENT_BOOK_REPLACE	"2"
0	(0)	X'3'	0	HWMCA_CAPACITY_CONCURRENT_BOOK_ADD	"3"
0	(0)	X'4'	0	HWMCA_CAPACITY_CHECK_STOP	"4"
0	(0)	X'5'	0	HWMCA_CAPACITY_CHANGES_ALLOWED	"5"
0	(0)	X'6'	0	HWMCA_CAPACITY_CHANGES_NOT_ALLOWED	"6"
Defines for the type of change for capacity record event. (Possible values returned for the "capRecChange" in the BCPii CAPACITYCHG event.)					
0	(0)	X'0'	0	HWMCA_CAPACITY_RECORD_ADD	"0"
0	(0)	X'1'	0	HWMCA_CAPACITY_RECORD_DELTA	"1"
0	(0)	X'2'	0	HWMCA_CAPACITY_RECORD_DELETE	"2"
0	(0)	X'3'	0	HWMCA_CAPACITY_RECORD_ACCOUNTING	

Table 972. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"3"
0	(0)	X'4'	0	HWMCA_CAPACITY_ACTIVATION_LEVEL	"4"
0	(0)	X'5'	0	HWMCA_CAPACITY_PRIORITY_PENDING	"5"
0	(0)	X'6'	0	HWMCA_CAPACITY_RECORD_OTHER	"6"
Defines for the operating mode of an image activation profile. (Possible values for the BCPii HWI_OPERATING_MODE attribute.)					
0	(0)	X'1'	0	HWMCA_ESA390_OPERATING_MODE	"1"
0	(0)	X'2'	0	HWMCA_ESA390TPF_OPERATING_MODE	"2"
0	(0)	X'3'	0	HWMCA_CF_OPERATING_MODE	"3"
0	(0)	X'4'	0	HWMCA_LINUX_OPERATING_MODE	"4"
0	(0)	X'5'	0	HWMCA_FMEX_OPERATING_MODE	"5"
0	(0)	X'6'	0	HWMCA_HMEX_OPERATING_MODE	"6"
0	(0)	X'7'	0	HWMCA_HMAS_OPERATING_MODE	"7"
0	(0)	X'8'	0	HWMCA_ZVM_OPERATING_MODE	"8"
0	(0)	X'9'	0	HWMCA_ZAWARE_OPERATING_MODE	"9"
Defines for the clock type of an image activation profile. (Possible values for the BCPii HWI_CLOCK_TYPE attribute.)					
0	(0)	X'0'	0	HWMCA_CLOCK_TYPE_STANDARD	"0"
0	(0)	X'1'	0	HWMCA_CLOCK_TYPE_LPAR	"1"
Defines for the Hardware Management Console Data Exchange Return Code Values. If a HWI_COMMUNICATION_ERROR ('101'x) return code is returned on the HWICONN, HWIDISC, HWIEVENT, HWILIST, HWIQUERY or HWISET service, the DiagArea output parameter will contain a 32-bit integer value called Diag_CommErr which identifies the problem. This return code can either be from the underlying System z APIs or from the BCPii transport layer. See the z/OS MVS Callable Services for HLL publication, Appendix A, for further explanation of these return codes The possible return codes from the System z APIs are listed below.					
0	(0)	X'0'	0	HWMCA_DE_NO_ERROR	"0"
0	(0)	X'1'	0	HWMCA_DE_NO_SUCH_OBJECT	"1"
0	(0)	X'2'	0	HWMCA_DE_INVALID_DATA_TYPE	"2"
0	(0)	X'3'	0	HWMCA_DE_INVALID_DATA_LENGTH	"3"
0	(0)	X'4'	0	HWMCA_DE_INVALID_DATA_PTR	"4"
0	(0)	X'5'	0	HWMCA_DE_INVALID_DATA_VALUE	"5"
0	(0)	X'6'	0	HWMCA_DE_INVALID_INIT_PTR	"6"
0	(0)	X'7'	0	HWMCA_DE_INVALID_ID_PTR	"7"
0	(0)	X'8'	0	HWMCA_DE_INVALID_BUF_PTR	"8"
0	(0)	X'9'	0	HWMCA_DE_INVALID_BUF_SIZE	"9"
0	(0)	X'A'	0	HWMCA_DE_INVALID_DATATYPE_PTR	"10"
0	(0)	X'B'	0	HWMCA_DE_INVALID_TARGET	"11"
0	(0)	X'C'	0	HWMCA_DE_INVALID_EVENT_MASK	

Table 972. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"12"
0	(0)	X'D'	0	HWMCA_DE_INVALID_PARAMETER	"13"
0	(0)	X'E'	0	HWMCA_DE_READ_ONLY_OBJECT	"14"
0	(0)	X'F'	0	HWMCA_DE_SNMP_INIT_ERROR	"15"
0	(0)	X'10'	0	HWMCA_DE_INVALID_OBJECT_ID	"16"
0	(0)	X'11'	0	HWMCA_DE_REQUEST_ALLOC_ERROR	"17"
0	(0)	X'12'	0	HWMCA_DE_REQUEST_SEND_ERROR	"18"
0	(0)	X'13'	0	HWMCA_DE_TIMEOUT	"19"
0	(0)	X'14'	0	HWMCA_DE_REQUEST_RECV_ERROR	"20"
0	(0)	X'15'	0	HWMCA_DE_SNMP_ERROR	"21"
0	(0)	X'16'	0	HWMCA_DE_INVALID_TIMEOUT	"22"
0	(0)	X'18'	0	HWMCA_DE_OBJECT_BUSY	"24"
0	(0)	X'1C'	0	HWMCA_DE_INVALID_HOST	"28"
0	(0)	X'1D'	0	HWMCA_DE_INVALID_COMMUNITY	"29"
0	(0)	X'1E'	0	HWMCA_DE_INVALID_QUALIFIER	"30"
0	(0)	X'61'	0	HWMCA_DE_INVALID_STACKNAME	"97"
0	(0)	X'62'	0	HWMCA_DE_REQUIRES_QUALIFIER	"98"
0	(0)	X'63'	0	HWMCA_DE_TRANSPORT_ERROR	"99"
Defines for the Hardware Management Console Command Return Code Values. If a HWI_COMMUNICATION_ERROR ('101'x) return code is returned on the HWICMD service, the DiagArea output parameter will contain a 32-bit integer value called Diag_CommErr which identifies the problem. This return code can either be from the underlying System z APIs or from the BCPii transport layer. See the z/OS MVS Callable Services for HLL publication, Appendix A, for further explanation of these return codes The possible return codes from the System z APIs are listed below.					
0	(0)	X'0'	0	HWMCA_CMD_NO_ERROR	"0"
0	(0)	X'1'	0	HWMCA_CMD_NO_SUCH_OBJECT	"1"
0	(0)	X'2'	0	HWMCA_CMD_INVALID_DATA_TYPE	"2"
0	(0)	X'3'	0	HWMCA_CMD_INVALID_DATA_LENGTH	"3"
0	(0)	X'4'	0	HWMCA_CMD_INVALID_DATA_PTR	"4"
0	(0)	X'5'	0	HWMCA_CMD_INVALID_DATA_VALUE	"5"
0	(0)	X'6'	0	HWMCA_CMD_INVALID_INIT_PTR	"6"
0	(0)	X'7'	0	HWMCA_CMD_INVALID_ID_PTR	"7"
0	(0)	X'A'	0	HWMCA_CMD_INVALID_DATATYPE_PTR	"10"
0	(0)	X'D'	0	HWMCA_CMD_INVALID_PARAMETER	"13"
0	(0)	X'11'	0	HWMCA_CMD_REQUEST_ALLOC_ERROR	"17"
0	(0)	X'12'	0	HWMCA_CMD_REQUEST_SEND_ERROR	"18"
0	(0)	X'13'	0	HWMCA_CMD_TIMEOUT	"19"
0	(0)	X'14'	0	HWMCA_CMD_REQUEST_RECV_ERROR	"20"

Table 972. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'15'	0	HWMCA_CMD_SNMP_ERROR	"21"
0	(0)	X'16'	0	HWMCA_CMD_INVALID_TIMEOUT	"22"
0	(0)	X'17'	0	HWMCA_CMD_INVALID_CMD	"23"
0	(0)	X'18'	0	HWMCA_CMD_OBJECT_BUSY	"24"
0	(0)	X'19'	0	HWMCA_CMD_INVALID_OBJECT	"25"
0	(0)	X'1A'	0	HWMCA_CMD_COMMAND_FAILED	"26"
0	(0)	X'1B'	0	HWMCA_CMD_INITTERM_OK	"27"
0	(0)	X'1C'	0	HWMCA_CMD_CBU_DISRUPTIVE_OK	"28"
0	(0)	X'1D'	0	HWMCA_CMD_CBU_PARTIAL_HW	"29"
0	(0)	X'1E'	0	HWMCA_CMD_CBU_NO_SPARES	"30"
0	(0)	X'1F'	0	HWMCA_CMD_CBU_TEMPORARY	"31"
0	(0)	X'20'	0	HWMCA_CMD_CBU_NOT_ENABLED	"32"
0	(0)	X'21'	0	HWMCA_CMD_CBU_NOT_AUTHORIZED	"33"
0	(0)	X'22'	0	HWMCA_CMD_CBU_FAILED	"34"
0	(0)	X'23'	0	HWMCA_CMD_CBU_ALREADY_ACTIVE	"35"
0	(0)	X'24'	0	HWMCA_CMD_CBU_INPROGRESS	"36"
0	(0)	X'25'	0	HWMCA_CMD_CBU_CPSAP_SPLIT_CHG	"37"
0	(0)	X'26'	0	HWMCA_CMD_INVALID_MACHINE_STATE	"38"
0	(0)	X'27'	0	HWMCA_CMD_NO_RECORDID	"39"
0	(0)	X'28'	0	HWMCA_CMD_NO_SW_MODEL	"40"
0	(0)	X'29'	0	HWMCA_CMD_NOT_ENOUGH_RESOURCES	"41"
0	(0)	X'2A'	0	HWMCA_CMD_NOT_ENOUGH_ACTIVE_RESOURCES	"42"
0	(0)	X'2B'	0	HWMCA_CMD_ACT_LESS_RESOURCES	"43"
0	(0)	X'2C'	0	HWMCA_CMD_DEACT_MORE_RESOURCES	"44"
0	(0)	X'2D'	0	HWMCA_CMD_ACT_TYPE_MISMATCH	"45"
0	(0)	X'2E'	0	HWMCA_CMD_API_NOT_ALLOWED	"46"
0	(0)	X'2F'	0	HWMCA_CMD_CDU_IN_PROGRESS	"47"
0	(0)	X'30'	0	HWMCA_CMD_MIRRORING_RUNNING	"48"
0	(0)	X'31'	0	HWMCA_CMD_COMMUNICATIONS_NOT_ACTIVE	"49"
0	(0)	X'32'	0	HWMCA_CMD_RECORD_EXPIRED	"50"
0	(0)	X'33'	0	HWMCA_CMD_PARTIAL_CAPACITY	"51"
0	(0)	X'34'	0	HWMCA_CMD_INVALID_REQUEST	"52"
0	(0)	X'35'	0	HWMCA_CMD_ALREADY_ACTIVE	"53"
0	(0)	X'36'	0	HWMCA_CMD_RESERVE_HELD	"54"
0	(0)	X'37'	0	HWMCA_CMD_GENERAL_XML_PARSING_ERROR	"55"
0	(0)	X'38'	0	HWMCA_CMD_STP_NOT_ENABLED	"56"
0	(0)	X'39'	0	HWMCA_CMD_STP_MUST_TARGET_CTS	"57"
0	(0)	X'3A'	0	HWMCA_CMD_STP_INV_CONFIG_SPECIFIED	

Table 972. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"58"
0	(0)	X'3B'	0	HWMCA_CMD_STP_WRONG_CTN	"59"
0	(0)	X'3C'	0	HWMCA_CMD_STP_NOT_VALID_FOR_CTS	"60"
0	(0)	X'3D'	0	HWMCA_CMD_STP_IN_ETR_MIGRATION	"61"
0	(0)	X'3E'	0	HWMCA_CMD_STP_NODE_NOT_FND_IN_SYSLST	"62"
0	(0)	X'3F'	0	HWMCA_CMD_STP_CTNID_TAG_ERROR	"63"
0	(0)	X'40'	0	HWMCA_CMD_STP_NODE_TAG_ERROR	"64"
0	(0)	X'41'	0	HWMCA_CMD_STP_CONFIG_TAG_NOT_FOUND	"65"
0	(0)	X'42'	0	HWMCA_CMD_STP_ACTIVE_CTS_TAG_ERROR	"66"
0	(0)	X'43'	0	HWMCA_CMD_STP_INITIALIZE_INCOMPLETE	"67"
0	(0)	X'44'	0	HWMCA_CMD_STP_INVALID_STP_ID	"68"
0	(0)	X'45'	0	HWMCA_CMD_STP_LINKS_ERROR	"69"
0	(0)	X'46'	0	HWMCA_CMD_STP_REQS_FORCE_TO_CONFIG	"70"
0	(0)	X'47'	0	HWMCA_CMD_PROC_PWR_MODE_NOT_ENTITLED	"71"
0	(0)	X'48'	0	HWMCA_CMD_PROC_PWR_MODE_NOT_ALLOWED	"72"
0	(0)	X'49'	0	HWMCA_CMD_PROC_PWR_MODE_GRP_CNTRLLED	"73"

Table 973. Cross Reference for HWIC2ASM

Name	Offset	Hex Tag
HWMCA_ACT_PROFILE_GROUP	0	B
HWMCA_ACT_PROFILE_IMAGE	0	9
HWMCA_ACT_PROFILE_LOAD	0	A
HWMCA_ACT_PROFILE_RESET	0	8
HWMCA_CAPACITY_ACTIVATION_LEVEL	0	4
HWMCA_CAPACITY_CHANGES_ALLOWED	0	5
HWMCA_CAPACITY_CHANGES_NOT_ALLOWED	0	6
HWMCA_CAPACITY_CHECK_STOP	0	4
HWMCA_CAPACITY_CONCURRENT_BOOK_ADD	0	3
HWMCA_CAPACITY_CONCURRENT_BOOK_REPLACE	0	2
HWMCA_CAPACITY_DEFECTIVE_PROCESSOR	0	1
HWMCA_CAPACITY_FENCED_BOOK	0	0
HWMCA_CAPACITY_PRIORITY_PENDING	0	5
HWMCA_CAPACITY_RECORD	0	C
HWMCA_CAPACITY_RECORD_ACCOUNTING	0	3
HWMCA_CAPACITY_RECORD_ADD	0	0
HWMCA_CAPACITY_RECORD_DELETE	0	2

Table 973. Cross Reference for HWIC2ASM (continued)

Name	Offset	Hex Tag
HWMCA_CAPACITY_RECORD_DELTA	0	1
HWMCA_CAPACITY_RECORD_OTHER	0	6
HWMCA_CAPACITY_RECORD_STATUS_REAL	0	2
HWMCA_CAPACITY_RECORD_STATUS_TEST	0	3
HWMCA_CAPACITY_RECORD_TYPE_CBU	0	1
HWMCA_CAPACITY_RECORD_TYPE_LOANER	0	4
HWMCA_CAPACITY_RECORD_TYPE_OOCOD	0	2
HWMCA_CAPACITY_RECORD_TYPE_PLANNED_EVENT	0	3
HWMCA_CF_OBJECT	0	7
HWMCA_CF_OPERATING_MODE	0	3
HWMCA_CLOCK_TYPE_LPAR	0	1
HWMCA_CLOCK_TYPE_STANDARD	0	0
HWMCA_CMD_ACT_LESS_RESOURCES	0	2B
HWMCA_CMD_ACT_TYPE_MISMATCH	0	2D
HWMCA_CMD_ALREADY_ACTIVE	0	35
HWMCA_CMD_API_NOT_ALLOWED	0	2E
HWMCA_CMD_CBU_ALREADY_ACTIVE	0	23
HWMCA_CMD_CBU_CPSAP_SPLIT_CHG	0	25
HWMCA_CMD_CBU_DISRUPTIVE_OK	0	1C
HWMCA_CMD_CBU_FAILED	0	22
HWMCA_CMD_CBU_INPROGRESS	0	24
HWMCA_CMD_CBU_NO_SPARES	0	1E
HWMCA_CMD_CBU_NOT_AUTHORIZED	0	21
HWMCA_CMD_CBU_NOT_ENABLED	0	20
HWMCA_CMD_CBU_PARTIAL_HW	0	1D
HWMCA_CMD_CBU_TEMPORARY	0	1F
HWMCA_CMD_CDU_IN_PROGRESS	0	2F
HWMCA_CMD_COMMAND_FAILED	0	1A
HWMCA_CMD_COMMUNICATIONS_NOT_ACTIVE	0	31
HWMCA_CMD_DEACT_MORE_RESOURCES	0	2C
HWMCA_CMD_GENERAL_XML_PARSING_ERROR	0	37
HWMCA_CMD_INITTERM_OK	0	1B
HWMCA_CMD_INVALID_CMD	0	17
HWMCA_CMD_INVALID_DATA_LENGTH	0	3
HWMCA_CMD_INVALID_DATA_PTR	0	4
HWMCA_CMD_INVALID_DATA_TYPE	0	2
HWMCA_CMD_INVALID_DATA_VALUE	0	5
HWMCA_CMD_INVALID_DATATYPE_PTR	0	A
HWMCA_CMD_INVALID_ID_PTR	0	7
HWMCA_CMD_INVALID_INIT_PTR	0	6
HWMCA_CMD_INVALID_MACHINE_STATE	0	26
HWMCA_CMD_INVALID_OBJECT	0	19
HWMCA_CMD_INVALID_PARAMETER	0	D
HWMCA_CMD_INVALID_REQUEST	0	34
HWMCA_CMD_INVALID_TIMEOUT	0	16
HWMCA_CMD_MIRRORING_RUNNING	0	30
HWMCA_CMD_NO_ERROR	0	0
HWMCA_CMD_NO_RECORDID	0	27
HWMCA_CMD_NO_SUCH_OBJECT	0	1

Table 973. Cross Reference for HWIC2ASM (continued)

Name	Offset	Hex Tag
HWMCA_CMD_NO_SW_MODEL	0	28
HWMCA_CMD_NOT_ENOUGH_ACTIVE_RESOURCES	0	2A
HWMCA_CMD_NOT_ENOUGH_RESOURCES	0	29
HWMCA_CMD_OBJECT_BUSY	0	18
HWMCA_CMD_PARTIAL_CAPACITY	0	33
HWMCA_CMD_PROC_PWR_MODE_GRP_CNTRLLED	0	49
HWMCA_CMD_PROC_PWR_MODE_NOT_ALLOWED	0	48
HWMCA_CMD_PROC_PWR_MODE_NOT_ENTITLED	0	47
HWMCA_CMD_RECORD_EXPIRED	0	32
HWMCA_CMD_REQUEST_ALLOC_ERROR	0	11
HWMCA_CMD_REQUEST_RECV_ERROR	0	14
HWMCA_CMD_REQUEST_SEND_ERROR	0	12
HWMCA_CMD_RESERVE_HELD	0	36
HWMCA_CMD_SNMP_ERROR	0	15
HWMCA_CMD_STP_ACTIVE_CTS_TAG_ERROR	0	42
HWMCA_CMD_STP_CONFIG_TAG_NOT_FOUND	0	41
HWMCA_CMD_STP_CTNID_TAG_ERROR	0	3F
HWMCA_CMD_STP_IN_ETR_MIGRATION	0	3D
HWMCA_CMD_STP_INITIALIZE_INCOMPLETE	0	43
HWMCA_CMD_STP_INV_CONFIG_SPECIFIED	0	3A
HWMCA_CMD_STP_INVALID_STP_ID	0	44
HWMCA_CMD_STP_LINKS_ERROR	0	45
HWMCA_CMD_STP_MUST_TARGET_CTS	0	39
HWMCA_CMD_STP_NODE_NOT_FND_IN_SYSLST	0	3E
HWMCA_CMD_STP_NODE_TAG_ERROR	0	40
HWMCA_CMD_STP_NOT_ENABLED	0	38
HWMCA_CMD_STP_NOT_VALID_FOR_CTS	0	3C
HWMCA_CMD_STP_REQS_FORCE_TO_CONFIG	0	46
HWMCA_CMD_STP_WRONG_CTN	0	3B
HWMCA_CMD_TIMEOUT	0	13
HWMCA_CPC_GROUP	0	1
HWMCA_CPC_IMAGE_GROUP	0	2
HWMCA_CPC_IMAGE_OBJECT	0	6
HWMCA_CPC_IMAGE_USER_GROUP	0	4
HWMCA_CPC_OBJECT	0	5
HWMCA_CPC_USER_GROUP	0	3
HWMCA_DE_INVALID_BUF_PTR	0	8
HWMCA_DE_INVALID_BUF_SIZE	0	9
HWMCA_DE_INVALID_COMMUNITY	0	1D
HWMCA_DE_INVALID_DATA_LENGTH	0	3
HWMCA_DE_INVALID_DATA_PTR	0	4
HWMCA_DE_INVALID_DATA_TYPE	0	2
HWMCA_DE_INVALID_DATA_VALUE	0	5
HWMCA_DE_INVALID_DATATYPE_PTR	0	A
HWMCA_DE_INVALID_EVENT_MASK	0	C
HWMCA_DE_INVALID_HOST	0	1C
HWMCA_DE_INVALID_ID_PTR	0	7
HWMCA_DE_INVALID_INIT_PTR	0	6
HWMCA_DE_INVALID_OBJECT_ID	0	10

Table 973. Cross Reference for HWIC2ASM (continued)

Name	Offset	Hex Tag
HWMCA_DE_INVALID_PARAMETER	0	D
HWMCA_DE_INVALID_QUALIFIER	0	1E
HWMCA_DE_INVALID_STACKNAME	0	61
HWMCA_DE_INVALID_TARGET	0	B
HWMCA_DE_INVALID_TIMEOUT	0	16
HWMCA_DE_NO_ERROR	0	0
HWMCA_DE_NO_SUCH_OBJECT	0	1
HWMCA_DE_OBJECT_BUSY	0	18
HWMCA_DE_READ_ONLY_OBJECT	0	E
HWMCA_DE_REQUEST_ALLOC_ERROR	0	11
HWMCA_DE_REQUEST_RECV_ERROR	0	14
HWMCA_DE_REQUEST_SEND_ERROR	0	12
HWMCA_DE_REQUIRES_QUALIFIER	0	62
HWMCA_DE_SNMP_ERROR	0	15
HWMCA_DE_SNMP_INIT_ERROR	0	F
HWMCA_DE_TIMEOUT	0	13
HWMCA_DE_TRANSPORT_ERROR	0	63
HWMCA_DEGRADED_AMBIENT	0	40
HWMCA_DEGRADED_CBU	0	10
HWMCA_DEGRADED_MBA	0	2
HWMCA_DEGRADED_MEM	0	1
HWMCA_DEGRADED_MRU	0	20
HWMCA_DEGRADED_MRU_IML	0	80
HWMCA_DEGRADED_NODE	0	4
HWMCA_DEGRADED_RING	0	8
HWMCA_DETERMINED_SYSTEM	0	0
HWMCA_DETERMINED_USER	0	1
HWMCA_ENDED_AUTOMATION	0	2
HWMCA_ENDED_OTHER	0	3
HWMCA_ENDED_USER	0	1
HWMCA_ESA390_OPERATING_MODE	0	1
HWMCA_ESA390TPF_OPERATING_MODE	0	2
HWMCA_FALSE	0	0
HWMCA_FMEX_OPERATING_MODE	0	5
HWMCA_HMAS_OPERATING_MODE	0	7
HWMCA_HMEX_OPERATING_MODE	0	6
HWMCA_IML_CF_PROD_MODE	0	D
HWMCA_IML_ESA390_MODE	0	1
HWMCA_IML_ESA390TPF_MODE	0	C
HWMCA_IML_FM_MODE	0	6
HWMCA_IML_FMAE_MODE	0	7
HWMCA_IML_FMEX_MODE	0	E
HWMCA_IML_HM_MODE	0	8
HWMCA_IML_HMAS_MODE	0	F
HWMCA_IML_HMEA_MODE	0	9
HWMCA_IML_HMEX_MODE	0	A
HWMCA_IML_LINUXO_MODE	0	10
HWMCA_IML_LPAR_MODE	0	B
HWMCA_IML_S370_MODE	0	2

Table 973. Cross Reference for HWIC2ASM (continued)

Name	Offset	Hex Tag
HWMCA_IML_ZAWARE_MODE	0	14
HWMCA_IML_ZVM_MODE	0	12
HWMCA_IPLTYPE_SCSI	0	2
HWMCA_IPLTYPE_SCSIDUMP	0	3
HWMCA_IPLTYPE_STANDARD	0	1
HWMCA_LINUX_OPERATING_MODE	0	4
HWMCA_LOADTYPE_CLEAR	0	1
HWMCA_LOADTYPE_NORMAL	0	0
HWMCA_NOT_DEGRADED	0	0
HWMCA_RESTART_APPLICATION	0	1
HWMCA_RESTART_APPLICATION_ALTERNATE	0	4
HWMCA_RESTART_CONSOLE	0	2
HWMCA_RESTART_CONSOLE_ALTERNATE	0	5
HWMCA_SHUTDOWN_CONSOLE	0	3
HWMCA_SHUTDOWN_CONSOLE_ALTERNATE	0	6
HWMCA_STATUS_ALERT	0	400
HWMCA_STATUS_DEGRADED	0	2000
HWMCA_STATUS_ENVALERT	0	800
HWMCA_STATUS_EXCEPTIONS	0	10
HWMCA_STATUS_FORCED_SLEEP	0	0
HWMCA_STATUS_IMAGE_NOT_ACTIVATED	0	0
HWMCA_STATUS_IMAGE_NOT_CAPABLE	0	0
HWMCA_STATUS_IMAGE_NOT_OPERATING	0	0
HWMCA_STATUS_LINKNOTACTIVE	0	80
HWMCA_STATUS_LOGOFF_TIMEOUT	0	0
HWMCA_STATUS_NO_POWER	0	4
HWMCA_STATUS_NOT_ACTIVATED	0	8
HWMCA_STATUS_NOT_OPERATING	0	2
HWMCA_STATUS_OPERATING	0	1
HWMCA_STATUS_POWERSAVE	0	100
HWMCA_STATUS_SERIOUSALERT	0	200
HWMCA_STATUS_SERVICE	0	40
HWMCA_STATUS_SERVICE_REQ	0	1000
HWMCA_STATUS_STATUS_CHECK	0	20
HWMCA_STATUS_STORAGE_EXCEEDED	0	0
HWMCA_STATUS_UNKNOWN	0	0
HWMCA_TRUE	0	1
HWMCA_VM_GROUP	0	D
HWMCA_VM_OBJECT	0	E
HWMCA_ZAWARE_OPERATING_MODE	0	9
HWMCA_ZBX_CHASSIS_OBJECT	0	11
HWMCA_ZBX_GROUP	0	F
HWMCA_ZBX_OBJECT	0	10
HWMCA_ZVM_OPERATING_MODE	0	8

Chapter 237. HZSDPQE Information

HZSDPQE Programming Interface Information

HZSDPQE is a programming interface.

HZSDPQE Heading Information

Common Name:	Deleted Process Queue Element
Macro ID:	HZSDPQE
DSECT Name:	HZSDPQE DPQE_LASTUPDATEDBY_TYPE
Owning Component:	IBM Health Checker for z/OS (SCHZS)
Eye-Catcher ID:	DPQE Offset: 0 Length: 4
Storage Attributes:	Subpool: user-supplied Key: user-supplied Residency: user-supplied
Size:	HZSDPQE -- X'0400' bytes DPQE_LASTUPDATEDBY_TYPE -- X'0010' bytes
Created by:	A DPQE is created within a user-supplied area by HZSQUERY processing when returning data about a deleted check
Pointed to by:	None. Contained within HZSQUAAC DSECT.
Serialization:	None required
Function:	Map data about a check that has been deleted

HZSDPQE mapping

Table 974. Structure HZSDPQE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HZSDPQE	Deleted Process Queue Element
0	(0)	CHARACTER	4	DPQE_ID	Eye catcher: 'DPQE'
4	(4)	SIGNED	2	DPQE_VERSION	Version - 0 (Incompatible DPQE mappings will result in new version numbers.)
6	(6)	CHARACTER	2		Reserved
8	(8)	CHARACTER	8	DPQE_RESERVED1	RESERVED FOR IBM PROPRIETARY PROGRAMMING SUPPORT
16	(10)	BITSTRING	4	DPQE_FLAGS	Misc flags
16	(10)	BITSTRING	1	DPQE_FLAGSB1	Byte 1
Bit definitions:					
		1...		DPQE_AVAILABLE	"X'80'" =1: DPQE is available for reuse (Entry is unused, or Check was added back
17	(11)	BITSTRING	1	DPQE_FLAGSB2	Byte 2
Bit definitions:					
		1...		DPQE_REMOTE	"X'80'" This is a REMOTE check
		.1..		DPQE_REXX	"X'40'"
18	(12)	BITSTRING	1	DPQE_FLAGSB3	Byte 3

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Table 974. Structure HZSDPQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
18	(12)	BITSTRING	1		Reserved for future use
19	(13)	BITSTRING	1	DPQE_FLAGSB4	Byte 4
Bit definitions:					
		1...		DPQE_GLOBAL_CHECK	"X'80'" Check was global
20	(14)	CHARACTER	4		Reserved
24	(18)	BITSTRING	16	DPQE_EXTENDED_TOD	Place holder for extended tod
24	(18)	BITSTRING	1		Wrap word
25	(19)	BITSTRING	8	DPQE_TOD	TOD: When check was deleted
25	(19)	BITSTRING	4	DPQE_TOD_HIGH	High order word of TOD
29	(1D)	BITSTRING	4	DPQE_TOD_LOW	Low order word of TOD
33	(21)	BITSTRING	7		macro word
40	(28)	CHARACTER	48	DPQE_CHECKOWNERNAME	
40	(28)	CHARACTER	16	DPQE_CHECKOWNER	Owning company and/or component
56	(38)	CHARACTER	32	DPQE_CHECKNAME	Check name
88	(58)	CHARACTER	8	DPQE_CHECKEXITRTN	Exit ModName that added this check
96	(60)	CHARACTER	16	DPQE_LASTUPDATEDBY_AREA	Either policy statement name or 'HZSCHECK' || jobname (HZSCHECK macro) or 'COMMAND' (modify command) or 'PARMLIB' (a statement in a parmlib member). This is mapped by the DPqe_LastUpdatedBy_Type DSECT
112	(70)	CHARACTER	16		Reserved for future use
128	(80)	CHARACTER	260	DPQE_CATEGORYAREA	
128	(80)	SIGNED	4	DPQE_NUMCATEGORIESDEFINED	Number of categories associated with this check. The "n" categories occupy the first "n" slots in the DPQE_CategoryArray.
132	(84)	CHARACTER	16	DPQE_CATEGORYARRAY	array of categories associated with this check. There are DPQE_MaxCategoryEntries contiguous entries in the array. Each array entry consists of a 16-byte category and one byte of flags.
132	(84)	CHARACTER	16	DPQE_CATEGORY	Category name
388	(184)	CHARACTER	12		Padding
400	(190)	CHARACTER	136	DPQE_RESERVED2	RESERVED FOR IBM PROPRIETARY PROGRAMMING SUPPORT
536	(218)	CHARACTER	64	DPQE_TEXT_STRINGS	Text strings that can be used for display. Valid only as output from HZSQUERY when TEXTSTRING=YES
536	(218)	CHARACTER	24	DPQE_TEXT_STRING_MODIFIEDBY	For example, STMT(pppppppppppppppp). Valid only as output from HZSQUERY when TEXTSTRING=YES
DPQE and check-related constants					

Table 974. Structure HZSDPQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
536	(218)	X'D7D8C5'	0	CDPQE_ACRONYM	"C'DPQE'" Eye catcher for DPQE
536	(218)	X'0'	0	CDPQE_VERSION	"0" Version number for DPQE
536	(218)	X'10'	0	DPQE_MAXCATEGORYENTRIES	"16"
1024	(400)	X'400'	0	HZSDPQE_LEN	"*-HZSDPQE"

Table 975. Structure DPQE_LASTUPDATEDBY_TYPE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DPQE_LASTUPDATEDBY_TYPE	
0	(0)	CHARACTER	16	DPQE_LASTUPDATEDBY_TYPE_UNION	
0	(0)	CHARACTER	16		
0	(0)	CHARACTER	16	DPQE_LASTUPDATEDBY_HZSCHECK_STRUCTURE	
0	(0)	CHARACTER	8	DPQE_LASTUPDATEDBY_HZSCHECK_HEADER	
8	(8)	CHARACTER	8	DPQE_LASTUPDATEDBY_HZSCHECK_JOBNAME	
0	(0)	CHARACTER	16	DPQE_LASTUPDATEDBY_PARMLIB_STRUCTURE	
0	(0)	CHARACTER	8	DPQE_LASTUPDATEDBY_PARMLIB_HEADER	
8	(8)	CHARACTER	8	DPQE_LASTUPDATEDBY_PARMLIB_HZSPRMXX	
0	(0)	CHARACTER	8	DPQE_LASTUPDATEDBY_SYSTEM_AREA	
0	(0)	X'E9E2C3'	0	DPQE_LASTUPDATEDBY_HZSCHECK_0TO3	"C'HZSC'" This is the first 4-byte segment of an 8-byte constant. The trailing 8 characters of the field in this case are the jobname
0	(0)	X'C5C3D2'	0	DPQE_LASTUPDATEDBY_HZSCHECK_4TO7	"C'HECK'" This is the second 4-byte segment of an 8-byte constant. The trailing 8 characters of the field in this case are the jobname
0	(0)	X'D6D4D4'	0	DPQE_LASTUPDATEDBY_COMMAND_0TO3	"C'COMM'" This is the first 4-byte segment of an 8-byte constant.
0	(0)	X'D5C440'	0	DPQE_LASTUPDATEDBY_COMMAND_4TO7	"C'AND '" This is the second 4-byte segment of an 8-byte constant.
0	(0)	X'C1D9D4'	0	DPQE_LASTUPDATEDBY_PARMLIB_0TO3	"C'PARM'" This is the first 4-byte segment of an 8-byte constant. The trailing 8 characters of the field in this case are the parmlib member name
0	(0)	X'C9C240'	0	DPQE_LASTUPDATEDBY_PARMLIB_4TO7	"C'LIB '" This is the second 4-byte segment of an 8-byte constant. The trailing 8 characters of the field in this case are the parmlib member name
0	(0)	X'E8E2E3'	0	DPQE_LASTUPDATEDBY_SYSTEM_0TO3	

Table 975. Structure DPQE_LASTUPDATEDBY_TYPE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"C'SYST'" This is the first 4-byte segment of an 8-byte constant.
0	(0)	X'D44040'	0	DPQE_LASTUPDATEDBY_SYSTEM_4TO7	
					"C'EM '" This is the second 4-byte segment of an 8-byte constant.
16	(10)	X'10'	0	DPQE_LASTUPDATEDBY_TYPE_LEN	
					"*-DPQE_LASTUPDATEDBY_TYPE"

Table 976. Cross Reference for HZSDPQE

Name	Offset	Hex Tag
CDPQE_ACRONYM	218	D7D8C5
CDPQE_VERSION	218	0
DPQE_AVAILABLE	10	80
DPQE_CATEGORY	84	
DPQE_CATEGORYAREA	80	
DPQE_CATEGORYARRAY	84	
DPQE_CHECKEXITRTN	58	
DPQE_CHECKNAME	38	
DPQE_CHECKOWNER	28	
DPQE_CHECKOWNERNAME	28	
DPQE_EXTENDED_TOD	18	
DPQE_FLAGS	10	
DPQE_FLAGSB1	10	
DPQE_FLAGSB2	11	
DPQE_FLAGSB3	12	
DPQE_FLAGSB4	13	
DPQE_GLOBAL_CHECK	13	80
DPQE_ID	0	
DPQE_LASTUPDATEDBY_AREA	60	
DPQE_LASTUPDATEDBY_COMMAND_0TO3	0	D6D4D4
DPQE_LASTUPDATEDBY_COMMAND_4TO7	0	D5C440
DPQE_LASTUPDATEDBY_HZSCHECK_HEADER	0	
DPQE_LASTUPDATEDBY_HZSCHECK_JOBNAME	8	
DPQE_LASTUPDATEDBY_HZSCHECK_STRUCTURE	0	
DPQE_LASTUPDATEDBY_HZSCHECK_0TO3	0	E9E2C3
DPQE_LASTUPDATEDBY_HZSCHECK_4TO7	0	C5C3D2
DPQE_LASTUPDATEDBY_PARMLIB_HEADER	0	
DPQE_LASTUPDATEDBY_PARMLIB_HZSPRMXX	8	
DPQE_LASTUPDATEDBY_PARMLIB_STRUCTURE	0	
DPQE_LASTUPDATEDBY_PARMLIB_0TO3	0	C1D9D4
DPQE_LASTUPDATEDBY_PARMLIB_4TO7	0	C9C240
DPQE_LASTUPDATEDBY_SYSTEM_AREA	0	
DPQE_LASTUPDATEDBY_SYSTEM_0TO3	0	E8E2E3
DPQE_LASTUPDATEDBY_SYSTEM_4TO7	0	D44040
DPQE_LASTUPDATEDBY_TYPE	0	
DPQE_LASTUPDATEDBY_TYPE_LEN	10	10

Table 976. Cross Reference for HZSDPQE (continued)

Name	Offset	Hex Tag
DPQE_LASTUPDATEDBY_TYPE_UNION	0	
DPQE_MAXCATEGORYENTRIES	218	10
DPQE_NUMCATEGORIESDEFINED	80	
DPQE_REMOTE	11	80
DPQE_RESERVED1	8	
DPQE_RESERVED2	190	
DPQE_REXX	11	40
DPQE_TEXT_STRING_MODIFIEDBY	218	
DPQE_TEXT_STRINGS	218	
DPQE_TOD	19	
DPQE_TOD_HIGH	19	
DPQE_TOD_LOW	1D	
DPQE_VERSION	4	
HZSDPQE	0	
HZSDPQE_LEN	400	400

Chapter 238. HZSMGB Information

HZSMGB Programming Interface Information

HZSMGB is a programming interface.

HZSMGB Heading Information

Common Name: Message Block
Macro ID: HZSMGB
DSECT Name: HZSMGB MGB_MsgInsertD HZSMGB1 MGB1_MsgInsertDesc
Owning Component: IBM Health Checker for z/OS (SCHZS)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: user-supplied
Key: HZSFMSG callers key
Residency: z/OS Health CHecker
Size: variable
HZSMGB -- X'000C' bytes
MGB_MsgInsertD -- X'0002' bytes
HZSMGB1 -- X'0008' bytes
MGB1_MsgInsertDesc -- X'0008' bytes
Created by: Caller of HZSFMSG macro.
Pointed to by: HZSFMSG parameter list
Serialization: None required
Function: Maps the message id and variables used to write a message to check buffer using HZSFMSG

HZSMGB mapping

Table 977. Structure HZSMGB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HZSMGB	
0	(0)	CHARACTER	1	MGB_INSERT_STRUCTURE(0)	
0	(0)	CHARACTER	8	MGB_INSERT_STRUCTURE_HEADER	Message inserts header
0	(0)	SIGNED	4	MGB_MESSAGENUMBER	The message number. This is the value provided in "XREFTEXT=MessageNumber" within the <msgnum> tag of the message source.
0	(0)	SIGNED	4	MGB_ID	Same as MGB_MessageNumber
4	(4)	SIGNED	4	MGB_INSERT_CNT	The number of insert addresses in the MGB_Insert_Structure_Entries area
8	(8)	CHARACTER	1	MGB_INSERT_STRUCTURE_ENTRIES(0)	

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Table 977. Structure HZSMGB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	ADDRESS	4	MGB_INSERTS	An array of pointers, each of which contains the address of an area mapped by Mgb_MsgInsertD. Note that if you use HZSMGB_LEN that will provide room for only one insert, so if you want more than one insert, be sure to account for that. For example, use HZSMGB_LEN + (n-1)*L'MGB_inserts where n is the number of inserts
8	(8)	ADDRESS	4	MGB_INSERTADDR	Address of the Mgb_MsgInsertD area for the insert
8	(8)	X'14'	0	MGB_MAXINSERTS	"20" The maximum number of inserts
8	(8)	X'C'	0	HZSMGB_LEN	"*-HZSMGB"

Table 978. Structure MGB_MSGINSERTD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MGB_MSGINSERTD	Insert description
0	(0)	CHARACTER	2	MGB_MSGINSERTD_HEADER	
0	(0)	SIGNED	2	MGB_MSGILEN	The length of the insert For a null insert, use a length of 0.
2	(2)	CHARACTER	1	MGB_MSGINSERTD_DATA(0)	
2	(2)	CHARACTER	1	MGB_MSGIVAL(0)	The insert value
2	(2)	X'100'	0	MGB_MAXINSERTLEN	"256" The maximum length of an insert unless otherwise indicated within the HZSFMSG macro
2	(2)	X'2'	0	MGB_MSGINSERTD_LEN	"*-MGB_MsgInsertD"

Table 979. Structure HZSMGB1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HZSMGB1	
0	(0)	CHARACTER	8	MGB1_INSERT_STRUCTURE	
0	(0)	CHARACTER	8	MGB1_INSERT_STRUCTURE_HEADER	Message inserts header
0	(0)	SIGNED	4	MGB1_MESSAGENUMBER	The message number. This is the value provided in "XREFTEXT=MessageNumber" within the <msgnum> tag of the message source. This field need not be when REQUEST=HZSMSG is specified on HZSFMSG.
0	(0)	SIGNED	4	MGB1_ID	Same as MGB1_MessageNumber
4	(4)	SIGNED	4	MGB1_INSERT_CNT	The number of insert addresses in the MGB1_Insert_Structure_Entries area
8	(8)	CHARACTER	1	MGB1_INSERT_STRUCTURE_ENTRIES(0)	

Table 979. Structure HZSMGB1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					The start of a contiguous area identifying the inserts. The area consist of "MGB1_insert_cnt" 8-byte segments where each segment is mapped by DSECT MGB1_MsgInsertDesc. Note that equate HZSMGB1_LEN provides only enough room for the HZSMGB1 area itself. To account for inserts as well, use something like HZSMGB1_Len + (n)*MGB1_MsgInsertDesc_Len where n is the number of inserts
8	(8)	X'14'	0	MGB1_MAXINSERTS	"20" The maximum number of inserts
8	(8)	X'8'	0	HZSMGB1_LEN	"*-HZSMGB1"

Table 980. Structure MGB1_MSGINSERTDESC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MGB1_MSGINSERTDESC	
0	(0)	SIGNED	2	MGB1_MSGINSERTDESC_LENGTH	The length of the insert. For a null insert, use a length of 0.
2	(2)	CHARACTER	2		Reserved
4	(4)	ADDRESS	4	MGB1_MSGINSERTDESC_ADDR	The address of the insert. This need not be set when the length is 0.
4	(4)	X'100'	0	MGB1_MAXINSERTLEN	"256" The maximum length of an insert
4	(4)	X'8'	0	MGB1_MSGINSERTDESC_LEN	"*-MGB1_MsgInsertDesc"

Table 981. Cross Reference for HZSMGB

Name	Offset	Hex Tag
HZSMGB	0	
HZSMGB_LEN	8	C
HZSMGB1	0	
HZSMGB1_LEN	8	8
MGB_ID	0	
MGB_INSERT_CNT	4	
MGB_INSERT_STRUCTURE	0	
MGB_INSERT_STRUCTURE_ENTRIES	8	
MGB_INSERT_STRUCTURE_HEADER	0	
MGB_INSERTADDR	8	
MGB_INSERTS	8	
MGB_MAXINSERTLEN	2	100
MGB_MAXINSERTS	8	14
MGB_MESSAGENUMBER	0	
MGB_MSGILEN	0	
MGB_MSGINSERTD	0	

Table 981. Cross Reference for HZSMGB (continued)

Name	Offset	Hex Tag
MGB_MSGINSERTD_DATA	2	
MGB_MSGINSERTD_HEADER	0	
MGB_MSGINSERTD_LEN	2	2
MGB_MSGIVAL	2	
MGB1_ID	0	
MGB1_INSERT_CNT	4	
MGB1_INSERT_STRUCTURE	0	
MGB1_INSERT_STRUCTURE_ENTRIES	8	
MGB1_INSERT_STRUCTURE_HEADER	0	
MGB1_MAXINSERTLEN	4	100
MGB1_MAXINSERTS	8	14
MGB1_MESSAGENUMBER	0	
MGB1_MSGINSERTDESC	0	
MGB1_MSGINSERTDESC_ADDR	4	
MGB1_MSGINSERTDESC_LEN	4	8
MGB1_MSGINSERTDESC_LENGTH	0	

Chapter 239. HZSPQE Information

HZSPQE Programming Interface Information

HZSPQE is a programming interface.

HZSPQE Heading Information

Common Name:	Process Queue Element
Macro ID:	HZSPQE
DSECT Name:	HZSPQE Pqe_LastUpdatedBy_Type
Owning Component:	IBM Health Checker for z/OS (SCHZS)
Eye-Catcher ID:	PQE Offset: 0 Length: 4
Storage Attributes:	Subpool: user-supplied Key: user-supplied Residency: user-supplied
Size:	HZSPQE -- X'1000' bytes Pqe_LastUpdatedBy_Type -- X'0010' bytes
Created by:	A PQE is created within a user-supplied area by HZSQUERY processing when returning data about a not-deleted check
Pointed to by:	None
Serialization:	None required
Function:	Maps the data for a check routine

HZSPQE mapping

Table 982. Structure HZSPQE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HZSPQE	Process Queue Element
		PQEHeader: General control block information Offset: 0000/'0000'X Length: 0128/'0080'X			
0	(0)	CHARACTER	128	PQEHEADER	PQE header information
0	(0)	CHARACTER	4	PQE_ID	Eye catcher: 'PQE '
4	(4)	SIGNED	2	PQE_VERSION	Version - 0 (Incompatible PQE mappings will result in new version numbers.)
6	(6)	CHARACTER	2		Reserved
8	(8)	ADDRESS	4	PQE_DYNAMICAREAADDR	Dynamic area for Check routine: Address of 4K dynamic work area (Assumed dirty, do not use before set)
8	(8)	ADDRESS	4	PQE_DYNAMICAREA@	
12	(C)	CHARACTER	20		
32	(20)	CHARACTER	96	PQE_TEXT_STRING2	Text strings that can be used for display. Valid only as output from HZSQUERY when TEXTSTRING=YES

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Table 982. Structure HZSPQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	CHARACTER	8	PQE_TEXT_STRING_ORIGIN	For example, HZSADDCK. Valid only as output from HZSQUERY when TEXTSTRING=YES
40	(28)	CHARACTER	8	PQE_TEXT_STRING_LOCALE	For example, REMOTE. Valid only as output from HZSQUERY when TEXTSTRING=YES
		Note: RexxIn and RexxOut datasets names will never exceed 34 characters: hlq.execname.REXXOUT (8+1+8+1+7) hlq.execname.REXXOUT.E####### (8+1+8+1+7+1+8) hlq.execname.REXXIN (8+1+8+1+6) hlq.execname.REXXIN.E####### (8+1+8+1+6+1+8) Therefore, a short dataset name can be used.			
48	(30)	CHARACTER	80	PQE_TEXT_STRING_REXX_DSNS	
48	(30)	CHARACTER	40	PQE_TEXT_STRING_REXXIN_DSN	REXX input dsn: hlq.execname.REXXIN.E#######, or hlq.execname.REXXIN. Valid only as output from HZSQUERY when TEXTSTRING=YES and PQE_REXXIN='1'b
88	(58)	CHARACTER	40	PQE_TEXT_STRING_REXXOUT_DSN	REXX out dsn: hlq.execname.REXXOUT.E#######, or hlq.execname.REXXOUT. Valid only as output from HZSQUERY when TEXTSTRING=YES and PQE_REXX='1'b
		PQEMsgInfo Check message information Offset: 0128/'0080'X Length: 0128/'0080'X			
128	(80)	CHARACTER	128	PQEMSGINFO	Message info area
128	(80)	CHARACTER	8	PQE_LASTBLOCKID	System Logger BlockID of the last successful complete write of the message stream to System Logger
136	(88)	CHARACTER	16	PQE_MSGTIMESTAMP	Time stamp (Local & GMT Time) of the last successful complete write to System Logger
152	(98)	CHARACTER	8		Reserved for future use
160	(A0)	CHARACTER	96	PQE_RESERVED2	RESERVED FOR IBM PROPRIETARY PROGRAMMING SUPPORT
		PQEStatus Check status, return codes, severity, categories, etc. Offset: 0256/'0100'X Length: 0512/'0200'X			
256	(100)	CHARACTER	256	PQESTATUS	Global check information
256	(100)	SIGNED	4	PQE_FAIL_COUNT	Number of times the check has failed in a row. This could have been an abend or, for a REXX check, unsuccessful completion.

Table 982. Structure HZSPQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
260	(104)	BITSTRING	16	PQE_STARTED_EXTENDED_TOD	When the check last started. This is the time when the system marked the check ready to run. It might not yet have actually begun running (perhaps because no worker tasks are available). This field is displayed preceded by "LAST RAN" but if the display shows "SCHEDULED" it has not actually run yet.
260	(104)	BITSTRING	1		High byte of eTOD
261	(105)	BITSTRING	8	PQE_STARTED_TOD	TOD: check last started
261	(105)	BITSTRING	4	PQE_STARTED_TOD_HIGH	High order word
265	(109)	BITSTRING	4	PQE_STARTED_TOD_LOW	Low order word
269	(10D)	BITSTRING	7		Low bytes of eTOD
276	(114)	BITSTRING	16	PQE_NEXTSCHEDULED_EXTENDED_TOD	When the check is next scheduled to start. Note that when PQE_Do_Not_Call_Flags is non-zero, this field does not contain valid information.
276	(114)	BITSTRING	16	PQE_NEXTSCHEDULED_ETOD	When the check is next next scheduled to start. Note that when PQE_Do_Not_Call_Flags is non-zero, this field does not contain valid information.
276	(114)	BITSTRING	1		High byte of eTOD
277	(115)	BITSTRING	8	PQE_NEXTSCHEDULED_TOD	TOD: Next scheduled check start as per TIMEINT
277	(115)	BITSTRING	4	PQE_NEXTSCHEDULED_TOD_HIGH	High order word
281	(119)	BITSTRING	4	PQE_NEXTSCHEDULED_TOD_LOW	Low order word
285	(11D)	BITSTRING	7		Low bytes of eTOD
292	(124)	CHARACTER	8	PQE_GLOBALCHECK_SYSNAME	The name of the system on which that check is active. Set for HZSQUERY when GLOBALCHECK=FINDSYSTEM is specified only
300	(12C)	CHARACTER	8	PQE_LASTRAN	STCK value when check last ran
308	(134)	CHARACTER	12	PQE_RESULT_AND_DIAG	
308	(134)	SIGNED	4	PQE_RESULT	Result from the last check invocation (See equates PQE_Result_xxx) =0, No exceptions found (Or SEV(None) w/exceptions) =4, SEV(L) Exception found =8, SEV(M) Exception found =12, SEV(H) Exception found
312	(138)	CHARACTER	8	PQE_DIAG	Diagnostic information from the check routine
312	(138)	CHARACTER	4	PQE_DIAG1	First word of DIAG
316	(13C)	CHARACTER	4	PQE_DIAG2	Second word of DIAG
320	(140)	SIGNED	4	PQE_TIME_INTVL	Time interval in .01 seconds between runnings of the check. A value of 0 indicates that the check was defined as ONETIME.

Table 982. Structure HZSPQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
324	(144)	SIGNED	4	PQE_CHECK_COUNT	The check iteration number since initialized / refreshed. Updated just before calling the "check" function. For a remote check, includes times when the system attempted to start a check but the check itself might not have confirmed that it got control
328	(148)	BITSTRING	4	PQE_DO_NOT_CALL_FLAGS	Do not call the checking routine
328	(148)	BITSTRING	3	PQE_DO_NOT_CALL_FLAGS_NOT_TRANSIENT	
328	(148)	BITSTRING	1	PQE_DO_NOT_CALL_FLAGS_BYHC	Flags determined by health checker
328	(148)	BITSTRING	1	PQE_BYHC_RESETONPARMCHANGE	
Bit definitions:					
		1...		PQE_ERROR_THRESHOLD_EXCEEDED	"X'80'" Check routine abended 2 consecutive times, or the check initialization routine failed
		.1..		PQE_CHECKROUTINE_INIT_ERROR	"X'40'" Error within INIT function of check routine
		..1.		PQE_CHECKROUTINE_DELETE_ERROR	"X'20'" Error within DELETE function of check routine
		...1		PQE_MISSING_DOM_ERROR	"X'10'" A DOM(CHECK) check missed to DOM exception WTOs from a previous check iteration, when the current iteration ended without check exception.
		.... 1...		PQE_ERROR_THRESHOLD_EXCEEDED_ABEND	"X'08'" When the error threshold was exceeded, it was because of an abend (as opposed to an unsuccessful REXX check)
329	(149)	BITSTRING	1	PQE_DO_NOT_CALL_FLAGS_BYCHECK	Flags determined by the check routine
329	(149)	BITSTRING	1	PQE_BYCHECK_RESETONPARMCHANGE	
Bit definitions:					
		1...		PQE_ENVIRONMENT_NA	"X'80'" HZS1003I not applicable in current environment check
		.1..		PQE_PARM_ERROR	"X'40'" HZS1001i Parameter error found for this check
		..1.		PQE_UNEXPECTED_ERROR_STOP	"X'20'" Unexpected error via HZSFMSG REQUEST=STOP
330	(14A)	BITSTRING	1	PQE_DO_NOT_CALL_FLAGS_BYUSER	Flags determined by the user/customer
Bit definitions:					
		1...		PQE_DEACTIVATED	"X'80'" Check was deactivated (must be activated before check is started

Table 982. Structure HZSPQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
331	(14B)	BITSTRING	1	PQE_DO_NOT_CALL_FLAGS_BYHC_TRANSIENT	
Bit definitions:					
		1...		PQE_WAITINGFORPRIORTOBEDELETED	"X'80'" Check can not be activated until the prior copy has been deleted
		.1..		PQE_GLOBALCHECK_ACTIVEELSEWHERE	"X'40'" Global check is active on another system within the sysplex
		..1.		PQE_USS_NOTAVAIL	"X'20'" This check is known to be a USS user, but USS is down at the moment
		...1		PQE_REXX_NOTAVAIL	"X'10'" This check is known to be a REXX user, but REXX services are not available
		.... 1...		PQE_REXX_TOOBUSY	"X'08'" This check is known to be a REXX user, but REXX is currently "too busy".
		.... 1...		PQE_REXX_FULL	"X'08'"
332	(14C)	CHARACTER	84	PQE_UNION	
332	(14C)	CHARACTER	84	PQE_WTO_WORKAREA	
332	(14C)	SIGNED	4	PQE_WTO_NUM_OUTSTANDING	Not part of the intended interface. Number of (most) outstanding, not DOM'd, WTOs issued by this check. Differences between this and PQE_OutstandingExceptions: - this includes non-"exception message" WTOs, like from HZSFMSG REQUEST=HZSMSG - this is capped - this can include counts for a different iteration, if DOM(CHECK) is in effect "Most", since some WTOs are tracked individually.
332	(14C)	CHARACTER	84	PQE_TEXT_STRINGS	Text strings that can be used for display. Valid only as output from HZSQUERY when TEXTSTRING=YES
332	(14C)	CHARACTER	4		Padding
336	(150)	CHARACTER	18	PQE_TEXT_STRING_STATE	For example, ACTIVE(ENABLED). Valid only as output from HZSQUERY when TEXTSTRING=YES
354	(162)	CHARACTER	6	PQE_TEXT_STRING_GLOBAL	GLOBAL or blank. Valid only as output from HZSQUERY when TEXTSTRING=YES
360	(168)	CHARACTER	16	PQE_TEXT_STRING_STATUS	For example, RUNNING. Valid only as output from HZSQUERY when TEXTSTRING=YES
376	(178)	CHARACTER	6	PQE_TEXT_STRING_SEVERITY	For example, MEDIUM. Valid only as output from HZSQUERY when TEXTSTRING=YES

Table 982. Structure HZSPQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
382	(17E)	CHARACTER	9	PQE_TEXT_STRING_WTOTYPE	For example, IMMEDIATE. Valid only as output from HZSQUERY when TEXTSTRING=YES
391	(187)	CHARACTER	24	PQE_TEXT_STRING_MODIFIEDBY	For example, STMT(pppppppppppppppp). Valid only as output from HZSQUERY when TEXTSTRING=YES
416	(1A0)	BITSTRING	4	PQE_CHECK_STATUS	We need CS logic at least for Byte 1, which has the possibility of concurrent updates between HZSTKSCH and HZSAACMD. Rather than worry about whether that byte alone is sufficient, the whole word is made to use CS manipulation
416	(1A0)	BITSTRING	1	PQE_CHECK_STATUSB0	Byte 0
Bit definitions:					
		1...		PQE_PARMERRORSDETECTED	"X'80'" HZSPRMxx parameters detected for this check were found in error and will not be used, the check will still be executed
		.1..		PQE_INITIALIZATIONINCOMPLETE	"X'40'" Check initialization for this check has not been completed (Run init)
		..1.		PQE_DELETING	"X'20'" Delete processing has started
		...1		PQE_NOTLOGGED	"X'10'" there is a message buffer, and some or all of the current buffer has NOT been copied to to the message buffer
		.... 1...		PQE_INIT_CALLED	"X'08'" Check_Init was called. When initially inactive, we will not call INIT routine. So we remember that we need to do that, for when ACTIVATE occurs. But once this is set, it is never reset so that on a subsequent DEACTIVATE we do not call any longer
		.... .1..		PQE_MODIFIEDNOTBYPOLICY	"X'04'" This check has been modified not by a policy statement, so updates will be lost if a refresh occurs
		.... ..1.		PQE_UPDATESNOTYETMERGED	"X'02'" Valid only within HZSQUERY output, indicates that a currently scheduled check routine might not yet reflect the most recent update request(s)
		1		PQE_SETTOFORCE	"X'01'" Need to Force this check, which is a strong delete
417	(1A1)	BITSTRING	1	PQE_CHECK_STATUSB1	Byte 1

Table 982. Structure HZSPQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Bit definitions:					
		1...		PQE_CHECKRUNNING	"X'80'" Check is currently scheduled to run
		.1..		PQE_WAITINGFORTIMERPOP	"X'40'" PQE_NextScheduled_Tod is is set for the future and waiting to go off. This is an internal flag
		.1..		PQE_TIMER_RUNNING	"X'40'" old name for this field
		..1.		PQE_FORCED	"X'20'" Force (CALLRTM ABTERM) done
		...1		PQE_POLICYDATEEXCEPTION	"X'10'" A policy statement matches this check, but the date on that policy statement is earlier than the check's date and the policy date was not NOCHECK
		.... 1...		PQE_POLICYDATEEXCEPTIONTEMP	"X'08'"
		.... .1..		PQE_CHECKROUTINEINCONTROL	"X'04'" The check routine is currently in control
		.... ..1.		PQE_ONSCHEDULEQUEUE	"X'02'" PQE is on scheduled queue This is an internal flag.
		1		PQE_NEVER_RUN	"X'01'" Check has not run yet: Scheduled to run the first time. This is an internal flag.
418	(1A2)	BITSTRING	1	PQE_CHECK_STATUSB2	Byte 2
Bit definitions:					
		1...		PQE_UNEXPECTED_ERROR_HZSMSG	"X'80'" Unexpected error specified via HZSFMSG REQUEST=HZSMSG
		.1..		PQE_NOTREALLYSCHEDULED	"X'40'" The check is being processed by the system, but not in order to run it
		..1.		PQE_GLOBALCHECK_RANELSEWHERE	"X'20'" The last time an attempt was made to run this global check on this system, it was active on another system in the sysplex, However, it is no longer active on any system in the sysplex. Valid only as output from HZSQUERY
		...1		PQE_REFRESHING	"X'10'" Refresh processing has started
		.... 1...		PQE_FAIL_COUNT_ABEND	"X'08'" The last time that the fail count was incremented it was because of an abend (as opposed to an unsuccessful REXX check)

Table 982. Structure HZSPQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		PQE_FAIL_COUNT_NOTAVAIL	"X'04'" The last time that the fail count was incremented it was because of a SYSREXX memterm, so that REXX is no longer available
		.... ..1.		PQE_POLICYSYNCVALEXCEPTION	"X'02'" A policy statement matches this check, but the SyncVal and (E)Interval values between that policy stmt and the check are in conflict.
		1		PQE_POLICYSYNCVALEXCEPTIONTEMP	"X'01'"
419	(1A3)	BITSTRING	1	PQE_CHECK_STATUSB3	Byte 3
Bit definitions:					
		1111 11..		PQE_CLEARONCHECKCALL	"X'FC'" Reset each time the CHECK function is called
		1...		PQE_CHECKABENDED	"X'80'" The check abended while running but the abend has not yet been counted within PQE_Fail_Count. To tell if a check failed on its last iteration, see if PQE_Fail_Count is non-zero.
		.111		PQE_DIAG_FROM	"X'70'" Diag_From bits
		.1..		PQE_DIAG_FROM_ABEND	"X'40'" PQE_Diag contains abend code and abend reason code from SDWACMPC and SDWACRC
		..1.		PQE_DIAG_FROM_HC	"X'20'" PQE_Diag contains data set by HC
		...1		PQE_DIAG_FROM_CHECKROUTINE	"X'10'" PQE_Diag contains diagnostic data provided by the check routine
		.... 1...		PQE_CLEANUPINDIFFERENTTASKTHANCHECK	"X'08'"
		.... .1..		PQE_REMOTECHECKUNSUCCESSFUL	"X'04'" When a REXX check ran, it either did not issue LINKMVS HZSLSTRT or, according to AXREXX, it did not complete successfully. Or when starting a remote not REXX check, the release did not work to get it started
420	(1A4)	SIGNED	4	PQE_OUTSTANDINGEXCEPTIONS	The number of exceptions found by the most current iteration of the check.
424	(1A8)	SIGNED	4	PQE_FUNCTION_CODE	Checks may get control for function codes: Pqe_Function_Code_Init 1 Pqe_Function_Code_Check 2 Pqe_Function_Code_cleanup 3 Pqe_Function_Code_Delete 7FFFFFFF

Table 982. Structure HZSPQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
428	(1AC)	SIGNED	4	PQE_DATASPACEALET	For a non-remote check, the ALET of a data space on the DU-AL that the check routine may use for any purpose it desires. The check routine must not assume that any of the storage is 0. The check may use all the storage in the range 1000-x'7FFEFFF'.
432	(1B0)	CHARACTER	8	PQE_DATASPACESTOKEN	For a non-remote check, the STOKEN of the data space addressed by PQE_DataspaceALET. If the check routine uses more than two pages of data space storage it should issue DSPSERV RELEASE using this STOKEN and the used range upon completion of the check function (or in the cleanup function).
440	(1B8)	SIGNED	4	PQE_LASTCPUTIME_CHECK	The CPU time used by the "check" function the last time it ran. This value is captured from bytes 2-5 of TCBTTIME before and after the check function. A value of 7FFFFFFF indicates that the value was greater than or equal to x'7FFFFFFF'.
444	(1BC)	SIGNED	4	PQE_MAXCPUTIME_CHECK	The maximum CPU time used by the "check" function. This value is captured from bytes 2-5 of TCBTTIME before and after the check function. A value of 7FFFFFFF indicates that the value was greater than or equal to x'7FFFFFFF'.
448	(1C0)	BITSTRING	4	PQE_ENVIRONMENT	The current operating environment
Bit definitions:					
		1...		PQE_ENVIRONMENT_XCFLOCAL	"X'80'" Xcf local mode
		.1..		PQE_ENVIRONMENT_XCFMONOPLEX	"X'40'" Xcf Monoplex
		..1.		PQE_REMOTE	"X'20'" This is a REMOTE check
		...1		PQE_REXX	"X'10'" This is a REXX check
452	(1C4)	BITSTRING	3		Reserved for future use
452	(1C4)	SIGNED	4	PQE_LASTRESULT	Result when check last ran

Table 982. Structure HZSPQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
456	(1C8)	SIGNED	4	PQE_CUM_CHECK_COUNT	The cumulative check iteration number since initialized. This differs from PQE_Check_Count in that it is not reset when a refresh occurs. It is updated just before calling the "check" function. For a remote check, includes times when the system attempted to start a check but the check itself might not have confirmed that it got control
460	(1CC)	SIGNED	4	PQE_LASTOUTSTANDINGEXCEPTIONS	The number of exceptions found by the last complete iteration of the check
464	(1D0)	CHARACTER	28	PQE_STATUSRSVD	Reserved for future use
		PQEChkInfo Check defaults and best practices as defined when the check was added to Health Checker (via ?HZSADDCK macro) Offset: 0768/'0300'X Length: 0768/'0300'X			
512	(200)	CHARACTER	768	PQECHKINFO	Name/category/defaults
		CheckName and CheckOwner combination will identify a unique check			
512	(200)	CHARACTER	48	PQE_CHECKOWNERNAME	
512	(200)	CHARACTER	16	PQE_CHECKOWNER	
				owning company and/or component	
528	(210)	CHARACTER	32	PQE_CHECKNAME	check name
560	(230)	CHARACTER	8	PQE_CHECKMODULENAME	Check routine load module
568	(238)	CHARACTER	8	PQE_CHECKEXITRTN	Exit ModName that added this check
576	(240)	CHARACTER	8	PQE_MSGTABLENAME	load module of msg table
576	(240)	CHARACTER	8	PQE_MSGMODULENAME	load module of msg module
584	(248)	SIGNED	4	PQE_ENTRY_CODE	Check entry code
588	(24C)	SIGNED	4	PQE_DEFAULTSEVERITY	Severity level of check: (See severity constants for the excepted values)
592	(250)	CHARACTER	4	PQE_DEFAULTINTERVAL	Default Time interval A value of '00000000'X indicates the check should not be run more then once unless the interval is overridden
592	(250)	SIGNED	2	PQE_DEFAULTHOURS	Number of hours
594	(252)	SIGNED	2	PQE_DEFAULTMINUTES	Number of minutes
596	(254)	BITSTRING	4	PQE_DEFAULTFLAGS	other defaults
596	(254)	BITSTRING	1	PQE_DEFAULTFLAGSB1	Byte 1
Bit definitions:					

Table 982. Structure HZSPQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		PQE_GLOBAL_CHECK	"X'80'" Global check: If a check is marked as global, it will only be run on the 1 system in the sysplex that obtains global enque for the check - Major name: 'HZS ', Minor name: PQE_CheckOwner||PQE_CheckName
		.1..		PQE_REXXIN	"X'40'" For a REXX check, the REXXIN data set exists
		..1.		PQE_DOM_CHECK	"X'20'" Who will issue Delete @UT01A Operator Message (DOM) requests for the check's check exception WTO messages: '1'b = the check '0'b = the system (default)
		...1		PQE_ALLOWDYNSEV	"X'10'" Whether dynamic severity is allowed for HZSFMSG: '1'b = Yes '0'b = No (default)
597	(255)	BITSTRING	1	PQE_DEFAULTFLAGSB2	Byte 2
597	(255)	BITSTRING	1		Reserved for future use
598	(256)	BITSTRING	1	PQE_DEFAULTFLAGSB3	Byte 3
598	(256)	BITSTRING	1		Reserved for future use
599	(257)	BITSTRING	1	PQE_DEFAULTFLAGSB4	Byte 4
------ Byte 4 ------					
600	(258)	CHARACTER	8	PQE_DEFAULTDATE	Date of Default parm YYYYMMDD
608	(260)	SIGNED	2	PQE_DEFAULTPARMLEN	Length of parms in default parmarea
610	(262)	CHARACTER	2		reserved
612	(264)	CHARACTER	4	PQE_DEFAULTEXCEPTIONINTERVAL	Default Time exception interval
612	(264)	SIGNED	2	PQE_DEFAULTEIHOURS	Number of hours
Bit definitions:					
		1...		PQE_DEFAULTEINOTHHHMM	"X'80'"
		.1..		PQE_DEFAULTEISYSTEM	"X'40'" Valid only when PQE_DefaultEINotHHHMM
		..1.		PQE_DEFAULTEIHALF	"X'20'" Valid only when PQE_DefaultEINotHHHMM
614	(266)	SIGNED	2	PQE_DEFAULTEIMINUTES	Number of minutes
616	(268)	CHARACTER	128	PQE_RESERVED4	RESERVED FOR IBM PROPRIETARY PROGRAMMING SUPPORT
744	(2E8)	CHARACTER	140	PQE_RESERVED5	RESERVED FOR IBM PROPRIETARY PROGRAMMING SUPPORT
884	(374)	CHARACTER	128	PQE_DEFAULTREASON	specified reason for the check and default values
884	(374)	BITSTRING	2	PQE_DEFAULTREASON_LEN	
886	(376)	CHARACTER	126	PQE_DEFAULTREASON_STRING	
884	(374)	SIGNED	2	PQE_DEFAULTREASONLENGTH	Reason Length
886	(376)	CHARACTER	126	PQE_DEFAULTREASONTEXT	Reason text
1012	(3F4)	CHARACTER	256	PQE_DEFAULTPARMAREA	Area for default parameters.
PQEChkParms User parms and best practices overrides Offset: 1536/'0600'X Length: 0512/'0200'X					

Table 982. Structure HZSPQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1280	(500)	CHARACTER	768	PQECHKPARMS	Check over ride values
1280	(500)	SIGNED	4	PQE_SEVERITY	Severity level of check. Default severity or user-specified severity (it is the latter when PQE_UserSeveritySpecified) (See severity constants for the expected values)
1280	(500)	SIGNED	4	PQE_USERSEVERITY	Severity level of check. Default severity or user-specified severity (it is the latter when PQE_UserSeveritySpecified) (See severity constants for the expected values)
1284	(504)	CHARACTER	4	PQE_INTERVAL	Check time interval. interval. A value of '00000000'X indicates the check should not be run more then once unless the interval is overridden Default interval or user-specified interval (it is the latter when PQE_UserIntervalSpecified)
1284	(504)	CHARACTER	4	PQE_USERINTERVAL	Check time interval. A value of '00000000'X indicates the check should not be run more then once unless the interval is overridden Default interval or user-specified interval (it is the latter when PQE_UserIntervalSpecified)
1284	(504)	SIGNED	2	PQE_HOURS	Number of hours
1284	(504)	SIGNED	2	PQE_USERHOURS	Number of hours
1286	(506)	SIGNED	2	PQE_MINUTES	Number of minutes
1286	(506)	SIGNED	2	PQE_USERMINUTES	Number of minutes
1288	(508)	CHARACTER	8	PQE_DATE	Default date or User-specified date YYYYMMDD (it is the latter when PQE_UserDateSpecified)
1288	(508)	CHARACTER	8	PQE_USERDATE	Default date or User-specified date YYYYMMDD (it is the latter when PQE_UserDateSpecified)
1296	(510)	BITSTRING	1	PQE_WTOTYPE	user-specified WtoType (valid PQE_UserWtoTypeSpecified) Critical, Eventual Action, etc. See WtoType constants
1296	(510)	BITSTRING	1	PQE_USER_WTOTYPE	user-specified WtoType (valid PQE_UserWtoTypeSpecified) Critical, Eventual Action, etc. See WtoType constants
1297	(511)	BITSTRING	1	PQE_DEBUG	See PQE_DEBUG_xxx. Default Debug or user-specified Debug (it is the latter when PQE_UserDebugSpecified)
1297	(511)	BITSTRING	1	PQE_USER_DEBUG	See PQE_DEBUG_xxx. Default Debug or user-specified Debug (it is the latter when PQE_UserDebugSpecified)

Table 982. Structure HZSPQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1298	(512)	BITSTRING	2	PQE_USERSPECIFIED_FLAGS	Indicates which fields the user specified
1298	(512)	BITSTRING	1	PQE_USERSPECIFIED_FLAGS0	Byte 0 of flags
Bit definitions:					
		1...		PQE_USERSEVERITYSPECIFIED	"X'80'" A user-specified SEVERITY value was found
		.1..		PQE_USERWTOTYPESPECIFIED	"X'40'" A user-specified WTOTYPE value was found
		..1.		PQE_USERDESCCODESPECIFIED	"X'20'" A user-specified Desc Code value was found
		...1		PQE_USERROUTCODESPECIFIED	"X'10'" A user-specified Route Code value was found
		.... 1...		PQE_USERDATESPECIFIED	"X'08'" A user-specified DATE value was found
		.... .1..		PQE_USERREASONSPECIFIED	"X'04'" A user-specified REASON value was found. That reason is different than the default.
		.... ..1.		PQE_USERPARMSPECIFIED	"X'02'" A user-specified PARM value was found. That reason is different than the default.
		1		PQE_USERINTERVALSPECIFIED	"X'01'" A user-specified interval value was found
1299	(513)	BITSTRING	1	PQE_USERSPECIFIED_FLAGS1	Byte 1 of flags
Bit definitions:					
		1...		PQE_USERCATEGORYSPECIFIED	"X'80'" User-specified categories were processed
		.1..		PQE_USERDEBUGSPECIFIED	"X'40'" User-specified debug was processed
		..1.		PQE_USERVERBOSESPECIFIED	"X'20'" User-specified verbose was processed
		...1		PQE_USEREXCEPTIONINTERVALSPECIFIED	"X'10'" A user-specified exception interval was found
		.... 1...		PQE_USERREXXTIMELIMITSPECIFIED	"X'08'" User-specified TimeLimit was processed
1300	(514)	BITSTRING	2	PQE_WTO_DESCCODE	User specified addition DESCCODEs
1300	(514)	BITSTRING	2	PQE_USERDESCCODE	User specified additional DESCCODEs
1302	(516)	BITSTRING	1	PQE_MOREFLAGS	
Bit definitions:					
		1...		PQE_NOTALLCATEGORIESAPPLIED	"X'80'" This is set when a category ADD is processed but there are already the maximum allowed. It is reset only when a category REPLACE is done (not when a category REMOVE is done).

Table 982. Structure HZSPQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		PQE_LOOKATPARMS	"X'40'" This will be on for the call to the init function, for the first call to the check function and for the next call to the check function after the user updated the parms. Note that there might actually be no parms.
		.1..		PQE_USERPARMCHANGEDSINCELASTTIME	"X'40'" See comment on PQE_LookAtParms
		..1.		PQE_INTERNAL_USERPARMCHANGED	"X'20'" This is an internal indicator not for use by check routines
		...1		PQE_POLICYUPDATE_ACTIVE	"X'10'" A policy update requested that the check be active
		.... 1...		PQE_POLICYUPDATE_INACTIVE	"X'08'" A policy update requested that the check be active
		.... .1..		PQE_NEEDTOAPPLYPOLICY	"X'04'" Categories were updated by a "change" so we need to re-apply policy. This is not an interface.
1303	(517)	BITSTRING	1	PQE_VERBOSE	See PQE_Verbose_xxx. Default Verbose or user-specified Verbose (it is the latter when PQE_UserVerboseSpecified)
1303	(517)	BITSTRING	1	PQE_USER_VERBOSE	See PQE_Verbose_xxx. Default Verbose or user-specified Verbose (it is the latter when PQE_UserVerboseSpecified)
1304	(518)	CHARACTER	16	PQE_WTO_ROUTCODE	Route code to be used for WTO. All 0's => none
1304	(518)	CHARACTER	16	PQE_USERROUTCODE	Route codes to be used for WTO. All 0's => none
1320	(528)	CHARACTER	16	PQE_LASTUPDATEDBY_AREA	Either policy statement name or 'HZSCHECK' || jobname (HZSCHECK macro) or 'COMMAND' (modify command) or 'PARMLIB' (a statement in a parmlib member) 'SYSTEM'. This is mapped by the Pqe_LastUpdatedBy_Type DSECT
1336	(538)	CHARACTER	4	PQE_EXCEPTIONINTERVAL	Check time exception interval. A value of >= 80000000 indicates that it is either to be run according to the interval or one half the interval. This is either the default exception interval or the user-specified exception (it is the latter when PQE_Use rExceptionIntervalSpecified is on)

Table 982. Structure HZSPQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1336	(538)	SIGNED	2	PQE_EIHOURS	Number of hours
Bit definitions:					
		1...		PQE_EINOTHHHMM	"X'80'"
		.1..		PQE_EISYSTEM	"X'40'" Valid only when PQE_EINotHHHMM
		..1.		PQE_EIHALF	"X'20'" Valid only when PQE_EINotHHHMM
1338	(53A)	SIGNED	2	PQE_EIMINUTES	Number of minutes
1340	(53C)	SIGNED	4	PQE_TIME_EXCEPTIONINTERVAL	Exception time interval in 0.01 seconds
1344	(540)	SIGNED	4	PQE_REXXTIMELIMIT	Valid only for REXX=YES checks
1348	(544)	SIGNED	2	PQE_REXXPQECHKWORK_LEN	Length of PQEChkArea that was last saved. Valid for REXX=YES checks
1350	(546)	BITSTRING	1	PQE_CHKPARMS_FLAGS	
Bit definitions:					
		1...		PQE_REXXTSONO	"X'80'"
1351	(547)	CHARACTER	1		Reserved for future use
1352	(548)	CHARACTER	8	PQE_REXXHLQ	Valid only for REXX=YES checks. Zeroes indicates to use the default
1360	(550)	BITSTRING	1	PQE_SYNCVALNOTSYSTEM	anything by SYSTEM
Bit definitions:					
		1...		PQE_SYNCVALHHMM	"X'80'" On, when SYNCVAL(HH:MM)
		.1..		PQE_SYNCVALANYHOUR	"X'40'" On, when SYNCVAL(*:MM)
1361	(551)	BITSTRING	1	PQE_SYNCVALHOURS	0..23 for HH:MM
1362	(552)	BITSTRING	1	PQE_SYNCVALMINUTES	0..59 for HH:MM or *:MM
1363	(553)	BITSTRING	1		Reserved for future use
1364	(554)	CHARACTER	20		Reserved for future use
1384	(568)	CHARACTER	8	PQE_CHECKEXEC	
1392	(570)	CHARACTER	260	PQE_CATEGORYAREA	
1392	(570)	SIGNED	4	PQE_NUMCATEGORIESDEFINED	Number of categories associated with this check. The categories will occupy the first "n" slots in the PQE_CategoryArray.
1396	(574)	CHARACTER	16	PQE_CATEGORYARRAY	array of categories associated with this check. There are PQE_MaxCategoryEntries contiguous entries in the array. Each array entry is a 16-byte category
1396	(574)	CHARACTER	16	PQE_CATEGORY	Category name
1652	(674)	SIGNED	2	PQE_PARMLEN	Quotes that were used to surround the PARMS value within an operator command or HZSPRMxx statement are not included within the resulting length
1652	(674)	SIGNED	2	PQE_USERPARMLEN	
1654	(676)	CHARACTER	2	PQE_RESERVED6	RESERVED FOR IBM PROPRIETARY PROGRAMMING SUPPORT
1656	(678)	CHARACTER	128	PQE_REASON_UNION	

Table 982. Structure HZSPQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1656	(678)	CHARACTER	128	PQE_REASON	
1656	(678)	BITSTRING	2	PQE_REASON_LEN	
1658	(67A)	CHARACTER	126	PQE_REASON_STRING	
				specified reason for the check and user Default reason or user-specified reason (it is the latter when PQE_UserReasonSpecified)	
1656	(678)	SIGNED	2	PQE_REASONLEN	Reason Length
1658	(67A)	CHARACTER	126	PQE_REASONTEXT	Reason text
1656	(678)	CHARACTER	128	PQE_USERREASON	specified reason for the check and user values. Default reason or user-specified reason (it is the latter when PQE_UserReasonSpecified)
1656	(678)	BITSTRING	2	PQE_USERREASON_LEN	
1658	(67A)	CHARACTER	126	PQE_USERREASON_STRING	
1656	(678)	SIGNED	2	PQE_USERREASONLENGTH	Reason Length
1658	(67A)	CHARACTER	126	PQE_USERREASONTEXT	Reason text
1784	(6F8)	CHARACTER	256	PQE_PARMAREA	Area for parameters Default parameters or user-specified parameters (it is the latter when PQE_UserparametersSpecified). Quotes that were used to surround the PARMS value within an operator command or HZSPRMxx statement are not included.
1784	(6F8)	CHARACTER	256	PQE_USERPARMAREA	Area for user parameters Default parameters or user-specified parameters (it is the latter when PQE_UserparametersSpecified)
				PQE_ChkWork Work area used (and mapped) by the check routine as needed Offset: 2048/'0800'X Length: 2048/'0800'X	
2048	(800)	CHARACTER	2048	PQE_CHKWORK	2K work area for check routine
2048	(800)	CHARACTER	2048	PQECHKWORK	2K work area for check routine
PQE and check related constants					
2048	(800)	X'D8C540'	0	PQE_ACRONYM	"C'PQE '" Eye catcher for PQE
2048	(800)	X'0'	0	PQE_SYSTEMSEVERITY	"0" For dynamic severity "default". Never actually in PQE.
2048	(800)	X'FF'	0	PQE_NOSEVERITY	"255" Severity value for NO severity value
2048	(800)	X'4'	0	PQE_LOWSEVERITY	"4" Severity value for Low severity value
2048	(800)	X'8'	0	PQE_MEDIUMSEVERITY	"8" Severity value for Medium severity value
2048	(800)	X'C'	0	PQE_HIGHSEVERITY	"12" Severity value for High severity value
2048	(800)	X'0'	0	PQE_RESULT_NOEXCEPTIONS	"0"
2048	(800)	X'4'	0	PQE_RESULT_LOWSEVERITYEXCEPTIONS	

Table 982. Structure HZSPQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"4"
2048	(800)	X'8'	0	PQE_RESULT_MEDIUMSEVERITYEXCEPTIONS	"8"
2048	(800)	X'C'	0	PQE_RESULT_HIGHSEVERITYEXCEPTIONS	"12"
2048	(800)	X'10'	0	PQE_WTOTYPE_CRITICAL	"16"
2048	(800)	X'C'	0	PQE_WTOTYPE_EVENTUAL	"12"
2048	(800)	X'8'	0	PQE_WTOTYPE_INFO	"8"
2048	(800)	X'4'	0	PQE_WTOTYPE_HARDCOPY	"4"
2048	(800)	X'FF'	0	PQE_WTOTYPE_NONE	"255"
2048	(800)	X'0'	0	PQE_WTOTYPE_NO_CHANGE	"0" From HZSCHECK only, never actually in a PQE
2048	(800)	X'0'	0	PQE_SEVERITY_NO_CHANGE	"0" From HZSCHECK only, never actually in a PQE
2048	(800)	X'0'	0	PQE_DEBUG_OFF	"0"
2048	(800)	X'8'	0	PQE_DEBUG_ON	"8"
2048	(800)	X'0'	0	PQE_VERBOSE_NO	"0"
2048	(800)	X'8'	0	PQE_VERBOSE_YES	"8"
2048	(800)	X'1'	0	PQE_FUNCTION_CODE_INIT	"1" Check initialization
2048	(800)	X'2'	0	PQE_FUNCTION_CODE_CHECK	"2" Check code
2048	(800)	X'3'	0	PQE_FUNCTION_CODE_CLEANUP	"3" Check cleanup
2048	(800)	X'FFFFFF'	0	PQE_FUNCTION_CODE_DELETE	"2147483647" Check Delete
2048	(800)	X'1'	0	PQE_INIT	"1"
2048	(800)	X'2'	0	PQE_CHECK	"2"
2048	(800)	X'3'	0	PQE_CLEANUP	"3"
2048	(800)	X'FFFFFF'	0	PQE_DELETE	"2147483647"
2048	(800)	X'7E'	0	PQE_REASONLENGTH	"126"
2048	(800)	X'100'	0	PQE_PARMLENGTH	"256"
2048	(800)	X'10'	0	PQE_MAXCATEGORYENTRIES	"16"
2048	(800)	X'1000'	0	HZSPQE_LEN	"*-HZSPQE"

Table 983. Structure PQE_LASTUPDATEDBY_TYPE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PQE_LASTUPDATEDBY_TYPE	
0	(0)	CHARACTER	16	PQE_LASTUPDATEDBY_TYPE_UNION	
0	(0)	CHARACTER	16		
0	(0)	CHARACTER	16	PQE_LASTUPDATEDBY_HZSCHECK_STRUCTURE	
0	(0)	CHARACTER	8	PQE_LASTUPDATEDBY_HZSCHECK_HEADER	
8	(8)	CHARACTER	8	PQE_LASTUPDATEDBY_HZSCHECK_JOBNAME	
0	(0)	CHARACTER	16	PQE_LASTUPDATEDBY_PARMLIB_STRUCTURE	
0	(0)	CHARACTER	8	PQE_LASTUPDATEDBY_PARMLIB_HEADER	
8	(8)	CHARACTER	8	PQE_LASTUPDATEDBY_PARMLIB_HZSPRMXX	
0	(0)	CHARACTER	8	PQE_LASTUPDATEDBY_SYSTEM_AREA	
0	(0)	X'E9E2C3'	0	PQE_LASTUPDATEDBY_HZSCHECK_0TO3	"C'HZSC'" This is the first 4-byte segment of an 8-byte constant. The trailing 8 characters of the field in this case are the jobname
0	(0)	X'C5C3D2'	0	PQE_LASTUPDATEDBY_HZSCHECK_4TO7	

Table 983. Structure PQE_LASTUPDATEDBY_TYPE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"C'HECK'" This is the second 4-byte segment of an 8-byte constant. The trailing 8 characters of the field in this case are the jobname
0	(0)	X'D6D4D4'	0	PQE_LASTUPDATEDBY_COMMAND_0TO3	"C'COMM'" This is the first 4-byte segment of an 8-byte constant.
0	(0)	X'D5C440'	0	PQE_LASTUPDATEDBY_COMMAND_4TO7	"C'AND '" This is the second 4-byte segment of an 8-byte constant.
0	(0)	X'C1D9D4'	0	PQE_LASTUPDATEDBY_PARMLIB_0TO3	"C'PARM'" This is the first 4-byte segment of an 8-byte constant. The trailing 8 characters of the field in this case are the parmlib member name
0	(0)	X'C9C240'	0	PQE_LASTUPDATEDBY_PARMLIB_4TO7	"C'LIB '" This is the second 4-byte segment of an 8-byte constant. The trailing 8 characters of the field in this case are the parmlib member name
0	(0)	X'E8E2E3'	0	PQE_LASTUPDATEDBY_SYSTEM_0TO3	"C'SYST'" This is the first 4-byte segment of an 8-byte constant. The trailing characters of the field in this case are blanks
0	(0)	X'D44040'	0	PQE_LASTUPDATEDBY_SYSTEM_4TO7	"C'EM '" This is the second 4-byte segment of an 8-byte constant. The trailing characters of the field in this case are blanks
16	(10)	X'10'	0	PQE_LASTUPDATEDBY_TYPE_LEN	"*-Pqe_LastUpdatedBy_Type"

Table 984. Cross Reference for HZSPQE

Name	Offset	Hex Tag
HZSPQE	0	
HZSPQE_LEN	800	1000
PQE_ACRONYM	800	D8C540
PQE_ALLOWDYNSEV	254	10
PQE_BYCHECK_RESETONPARMCHANGE	149	
PQE_BYHC_RESETONPARMCHANGE	148	
PQE_CATEGORY	574	
PQE_CATEGORYAREA	570	
PQE_CATEGORYARRAY	574	
PQE_CHECK	800	2
PQE_CHECK_COUNT	144	

Table 984. Cross Reference for HZSPQE (continued)

Name	Offset	Hex Tag
PQE_CHECK_STATUS	1A0	
PQE_CHECK_STATUSB0	1A0	
PQE_CHECK_STATUSB1	1A1	
PQE_CHECK_STATUSB2	1A2	
PQE_CHECK_STATUSB3	1A3	
PQE_CHECKABENDED	1A3	80
PQE_CHECKEXEC	568	
PQE_CHECKEXITRTN	238	
PQE_CHECKMODULENAME	230	
PQE_CHECKNAME	210	
PQE_CHECKOWNER	200	
PQE_CHECKOWNERNAME	200	
PQE_CHECKROUTINE_DELETE_ERROR	148	20
PQE_CHECKROUTINE_INIT_ERROR	148	40
PQE_CHECKROUTINEINCONTROL	1A1	4
PQE_CHECKRUNNING	1A1	80
PQE_CHKPARMS_FLAGS	546	
PQE_CHKWORK	800	
PQE_CLEANUP	800	3
PQE_CLEANUPINDIFFERENTTASKTHANCHECK	1A3	8
PQE_CLEARONCHECKCALL	1A3	FC
PQE_CUM_CHECK_COUNT	1C8	
PQE_DATASPACEALET	1AC	
PQE_DATASPACESTOKEN	1B0	
PQE_DATE	508	
PQE_DEACTIVATED	14A	80
PQE_DEBUG	511	
PQE_DEBUG_OFF	800	0
PQE_DEBUG_ON	800	8
PQE_DEFAULTDATE	258	
PQE_DEFAULTEIHALF	264	20
PQE_DEFAULTEIHOURS	264	
PQE_DEFAULTEIMINUTES	266	
PQE_DEFAULTEINOTHHHMM	264	80
PQE_DEFAULTEISYSTEM	264	40
PQE_DEFAULTEXCEPTIONINTERVAL	264	
PQE_DEFAULTFLAGS	254	
PQE_DEFAULTFLAGSB1	254	
PQE_DEFAULTFLAGSB2	255	
PQE_DEFAULTFLAGSB3	256	
PQE_DEFAULTFLAGSB4	257	
PQE_DEFAULTHOURS	250	
PQE_DEFAULTINTERVAL	250	
PQE_DEFAULTMINUTES	252	
PQE_DEFAULTPARMAREA	3F4	
PQE_DEFAULTPARMLEN	260	
PQE_DEFAULTREASON	374	
PQE_DEFAULTREASON_LEN	374	
PQE_DEFAULTREASON_STRING	376	

Table 984. Cross Reference for HZSPQE (continued)

Name	Offset	Hex Tag
PQE_DEFAULTREASONLENGTH	374	
PQE_DEFAULTREASONTEXT	376	
PQE_DEFAULTSEVERITY	24C	
PQE_DELETE	800	FFFFFF
PQE_DELETING	1A0	20
PQE_DIAG	138	
PQE_DIAG_FROM	1A3	70
PQE_DIAG_FROM_ABEND	1A3	40
PQE_DIAG_FROM_CHECKROUTINE	1A3	10
PQE_DIAG_FROM_HC	1A3	20
PQE_DIAG1	138	
PQE_DIAG2	13C	
PQE_DO_NOT_CALL_FLAGS	148	
PQE_DO_NOT_CALL_FLAGS_BYCHECK	149	
PQE_DO_NOT_CALL_FLAGS_BYHC	148	
PQE_DO_NOT_CALL_FLAGS_BYHC_TRANSIENT	14B	
PQE_DO_NOT_CALL_FLAGS_BYUSER	14A	
PQE_DO_NOT_CALL_FLAGS_NOT_TRANSIENT	148	
PQE_DOM_CHECK	254	20
PQE_DYNAMICAREA@	8	
PQE_DYNAMICAREAADDR	8	
PQE_EIHALF	538	20
PQE_EIHOURS	538	
PQE_EIMINUTES	53A	
PQE_EINOTHHHMM	538	80
PQE_EISYSTEM	538	40
PQE_ENTRY_CODE	248	
PQE_ENVIRONMENT	1C0	
PQE_ENVIRONMENT_NA	149	80
PQE_ENVIRONMENT_XCFLOCAL	1C0	80
PQE_ENVIRONMENT_XCFMONOPLEX	1C0	40
PQE_ERROR_THRESHOLD_EXCEEDED	148	80
PQE_ERROR_THRESHOLD_EXCEEDED_ABEND	148	8
PQE_EXCEPTIONINTERVAL	538	
PQE_FAIL_COUNT	100	
PQE_FAIL_COUNT_ABEND	1A2	8
PQE_FAIL_COUNT_NOTAVAIL	1A2	4
PQE_FORCED	1A1	20
PQE_FUNCTION_CODE	1A8	
PQE_FUNCTION_CODE_CHECK	800	2
PQE_FUNCTION_CODE_CLEANUP	800	3
PQE_FUNCTION_CODE_DELETE	800	FFFFFF
PQE_FUNCTION_CODE_INIT	800	1
PQE_GLOBAL_CHECK	254	80
PQE_GLOBALCHECK_ACTIVEELSEWHERE	14B	40
PQE_GLOBALCHECK_RANELSEWHERE	1A2	20
PQE_GLOBALCHECK_SYSNAME	124	
PQE_HIGHSEVERITY	800	C
PQE_HOURS	504	

Table 984. Cross Reference for HZSPQE (continued)

Name	Offset	Hex Tag
PQE_ID	0	
PQE_INIT	800	1
PQE_INIT_CALLED	1A0	8
PQE_INITIALIZATIONINCOMPLETE	1A0	40
PQE_INTERNAL_USERPARMCHANGED	516	20
PQE_INTERVAL	504	
PQE_LASTBLOCKID	80	
PQE_LASTCPUTIME_CHECK	1B8	
PQE_LASTOUTSTANDINGEXCEPTIONS	1CC	
PQE_LASTRAN	12C	
PQE_LASTRESULT	1C4	
PQE_LASTUPDATEDBY_AREA	528	
PQE_LASTUPDATEDBY_COMMAND_0TO3	0	D6D4D4
PQE_LASTUPDATEDBY_COMMAND_4TO7	0	D5C440
PQE_LASTUPDATEDBY_HZSCHECK_HEADER	0	
PQE_LASTUPDATEDBY_HZSCHECK_JOBNAME	8	
PQE_LASTUPDATEDBY_HZSCHECK_STRUCTURE	0	
PQE_LASTUPDATEDBY_HZSCHECK_0TO3	0	E9E2C3
PQE_LASTUPDATEDBY_HZSCHECK_4TO7	0	C5C3D2
PQE_LASTUPDATEDBY_PARMLIB_HEADER	0	
PQE_LASTUPDATEDBY_PARMLIB_HZSPRMXX	8	
PQE_LASTUPDATEDBY_PARMLIB_STRUCTURE	0	
PQE_LASTUPDATEDBY_PARMLIB_0TO3	0	C1D9D4
PQE_LASTUPDATEDBY_PARMLIB_4TO7	0	C9C240
PQE_LASTUPDATEDBY_SYSTEM_AREA	0	
PQE_LASTUPDATEDBY_SYSTEM_0TO3	0	E8E2E3
PQE_LASTUPDATEDBY_SYSTEM_4TO7	0	D44040
PQE_LASTUPDATEDBY_TYPE	0	
PQE_LASTUPDATEDBY_TYPE_LEN	10	10
PQE_LASTUPDATEDBY_TYPE_UNION	0	
PQE_LOOKATPARMS	516	40
PQE_LOWSEVERITY	800	4
PQE_MAXCATEGORYENTRIES	800	10
PQE_MAXCPUTIME_CHECK	1BC	
PQE_MEDIUMSEVERITY	800	8
PQE_MINUTES	506	
PQE_MISSING_DOM_ERROR	148	10
PQE_MODIFIEDNOTBYPOLICY	1A0	4
PQE_MOREFLAGS	516	
PQE_MSGMODULENAME	240	
PQE_MSGTABLENAME	240	
PQE_MSGTIMESTAMP	88	
PQE_NEEDTOAPPLYPOLICY	516	4
PQE_NEVER_RUN	1A1	1
PQE_NEXTSCHEDULED_ETOD	114	
PQE_NEXTSCHEDULED_EXTENDED_TOD	114	
PQE_NEXTSCHEDULED_TOD	115	
PQE_NEXTSCHEDULED_TOD_HIGH	115	
PQE_NEXTSCHEDULED_TOD_LOW	119	

Table 984. Cross Reference for HZSPQE (continued)

Name	Offset	Hex Tag
PQE_NOSEVERITY	800	FF
PQE_NOTALLCATEGORIESAPPLIED	516	80
PQE_NOTLOGGED	1A0	10
PQE_NOTREALLYSCHEDULED	1A2	40
PQE_NUMCATEGORIESDEFINED	570	
PQE_ONSCHEDULEQUEUE	1A1	2
PQE_OUTSTANDINGEXCEPTIONS	1A4	
PQE_PARM_ERROR	149	40
PQE_PARMAREA	6F8	
PQE_PARMERRORSDETECTED	1A0	80
PQE_PARMLEN	674	
PQE_PARMLENGTH	800	100
PQE_POLICYDATEEXCEPTION	1A1	10
PQE_POLICYDATEEXCEPTIONTEMP	1A1	8
PQE_POLICYSYNCVALEXCEPTION	1A2	2
PQE_POLICYSYNCVALEXCEPTIONTEMP	1A2	1
PQE_POLICYUPDATE_ACTIVE	516	10
PQE_POLICYUPDATE_INACTIVE	516	8
PQE_REASON	678	
PQE_REASON_LEN	678	
PQE_REASON_STRING	67A	
PQE_REASON_UNION	678	
PQE_REASONLEN	678	
PQE_REASONLENGTH	800	7E
PQE_REASONTEXT	67A	
PQE_REFRESHING	1A2	10
PQE_REMOTE	1C0	20
PQE_REMOTECHECKUNSUCCESSFUL	1A3	4
PQE_RESERVED2	A0	
PQE_RESERVED4	268	
PQE_RESERVED5	2E8	
PQE_RESERVED6	676	
PQE_RESULT	134	
PQE_RESULT_AND_DIAG	134	
PQE_RESULT_HIGHSEVERITYEXCEPTIONS	800	C
PQE_RESULT_LOWSEVERITYEXCEPTIONS	800	4
PQE_RESULT_MEDIUMSEVERITYEXCEPTIONS	800	8
PQE_RESULT_NOEXCEPTIONS	800	0
PQE_REXX	1C0	10
PQE_REXX_FULL	14B	8
PQE_REXX_NOTAVAIL	14B	10
PQE_REXX_TOOBUSY	14B	8
PQE_REXXHLQ	548	
PQE_REXXIN	254	40
PQE_REXXPQECHKWORK_LEN	544	
PQE_REXXTIMELIMIT	540	
PQE_REXXTSONO	546	80
PQE_SETTOFORCE	1A0	1
PQE_SEVERITY	500	

Table 984. Cross Reference for HZSPQE (continued)

Name	Offset	Hex Tag
PQE_SEVERITY_NO_CHANGE	800	0
PQE_STARTED_EXTENDED_TOD	104	
PQE_STARTED_TOD	105	
PQE_STARTED_TOD_HIGH	105	
PQE_STARTED_TOD_LOW	109	
PQE_STATUSRSVD	1D0	
PQE_SYNCVALANYHOUR	550	40
PQE_SYNCVALHHMM	550	80
PQE_SYNCVALHOURS	551	
PQE_SYNCVALMINUTES	552	
PQE_SYNCVALNOTSYSTEM	550	
PQE_SYSTEMSEVERITY	800	0
PQE_TEXT_STRING_GLOBAL	162	
PQE_TEXT_STRING_LOCALE	28	
PQE_TEXT_STRING_MODIFIEDBY	187	
PQE_TEXT_STRING_ORIGIN	20	
PQE_TEXT_STRING_REXX_DSNS	30	
PQE_TEXT_STRING_REXXIN_DSN	30	
PQE_TEXT_STRING_REXXOUT_DSN	58	
PQE_TEXT_STRING_SEVERITY	178	
PQE_TEXT_STRING_STATE	150	
PQE_TEXT_STRING_STATUS	168	
PQE_TEXT_STRING_WTOTYPE	17E	
PQE_TEXT_STRINGS	14C	
PQE_TEXT_STRING2	20	
PQE_TIME_EXCEPTIONINTERVAL	53C	
PQE_TIME_INTVL	140	
PQE_TIMER_RUNNING	1A1	40
PQE_UNEXPECTED_ERROR_HZSMSG	1A2	80
PQE_UNEXPECTED_ERROR_STOP	149	20
PQE_UNION	14C	
PQE_UPDATESNOTYETMERGED	1A0	2
PQE_USER_DEBUG	511	
PQE_USER_VERBOSE	517	
PQE_USER_WTOTYPE	510	
PQE_USERCATEGORYSPECIFIED	513	80
PQE_USERDATE	508	
PQE_USERDATESPECIFIED	512	8
PQE_USERDEBUGSPECIFIED	513	40
PQE_USERDESCCODE	514	
PQE_USERDESCCODESPECIFIED	512	20
PQE_USEREXCEPTIONINTERVALSPECIFIED	513	10
PQE_USERHOURS	504	
PQE_USERINTERVAL	504	
PQE_USERINTERVALSPECIFIED	512	1
PQE_USERMINUTES	506	
PQE_USERPARMAREA	6F8	
PQE_USERPARMCHANGEDSINCELASTTIME	516	40
PQE_USERPARMLEN	674	

Table 984. Cross Reference for HZSPQE (continued)

Name	Offset	Hex Tag
PQE_USERPARMSPECIFIED	512	2
PQE_USERREASON	678	
PQE_USERREASON_LEN	678	
PQE_USERREASON_STRING	67A	
PQE_USERREASONLENGTH	678	
PQE_USERREASONSPECIFIED	512	4
PQE_USERREASONTEXT	67A	
PQE_USERREXXTIMELIMITSPECIFIED	513	8
PQE_USERROUTCODE	518	
PQE_USERROUTCODESPECIFIED	512	10
PQE_USERSEVERITY	500	
PQE_USERSEVERITYSPECIFIED	512	80
PQE_USERSPECIFIED_FLAGS	512	
PQE_USERSPECIFIED_FLAGS0	512	
PQE_USERSPECIFIED_FLAGS1	513	
PQE_USERVERBOSESPECIFIED	513	20
PQE_USERWTOTYPESPECIFIED	512	40
PQE_USS_NOTAVAIL	14B	20
PQE_VERBOSE	517	
PQE_VERBOSE_NO	800	0
PQE_VERBOSE_YES	800	8
PQE_VERSION	4	
PQE_WAITINGFORPRIORTOBEDELETED	14B	80
PQE_WAITINGFORTIMERPOP	1A1	40
PQE_WTO_DESCCODE	514	
PQE_WTO_NUM_OUTSTANDING	14C	
PQE_WTO_ROUTCODE	518	
PQE_WTO_WORKAREA	14C	
PQE_WTOTYPE	510	
PQE_WTOTYPE_CRITICAL	800	10
PQE_WTOTYPE_EVENTUAL	800	C
PQE_WTOTYPE_HARDCOPY	800	4
PQE_WTOTYPE_INFO	800	8
PQE_WTOTYPE_NO_CHANGE	800	0
PQE_WTOTYPE_NONE	800	FF
PQECHKINFO	200	
PQECHKPARMS	500	
PQECHKWORK	800	
PQEHEADER	0	
PQEMSGINFO	80	
PQESTATUS	100	

Chapter 240. HZSQUAA Information

HZSQUAA Programming Interface Information

HZSQUAA is a programming interface.

HZSQUAA Heading Information

Common Name:	HZSQUERY Return Information
Macro ID:	HZSQUAA
DSECT Name:	HZSQUAAHDR HZSQUAAHDR64 HZSQUAAC HZSQUAAC1 HZSQUAAG HZSQUAACS
Owning Component:	IBM Health Checker (SCHZS)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: Caller-supplied Key: Caller-supplied Residency: Caller-supplied
Size:	Variable HZSQUAAHDR -- X'0080' bytes HZSQUAAHDR64 -- X'00C0' bytes HZSQUAAC -- X'1018' bytes HZSQUAAC1 -- X'1040' bytes HZSQUAAG -- X'01E0' bytes HZSQUAACS -- X'0050' bytes
Created by:	Caller and passed as parameter on ANSAREA keyword on HZSQUERY
Pointed to by:	HZSQUERY parameter list
Serialization:	None required
Function:	The returned output consists of a header (HZSQUAAHDR or HZSQUAAHDR64) and zero or more contiguous check entries, each mapped by HZSQUAAC or HZSQUAAC1 The first is pointed to by field HzsquaaHQuaaC(1)Addr or HzsquaaH64QuaaC(1)Addr in the header. Note that the length of the HZSQUAAC(1) entries vary according to the type of entry and the OutputStyle.

HZSQUAA mapping

Table 985. Structure HZSQUAAHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HZSQUAAHDR	Header section when Ansarea was specified on HZSQUERY

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Table 985. Structure HZSQUAAHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	SIGNED	4	HZSQUAAHTLEN	Total length of answer area needed to contain all of the requested information. This includes the area for the records that were returned on this call. A value of x'FFFFFFFF' indicates that the amount of data to be returned exceeds 2G and you need either to request less data or provide a larger area and use the ANSLEN64 / ANSAREA64 parameters.
4	(4)	CHARACTER	4		Reserved
8	(8)	SIGNED	4	HZSQUAAHNUMQUAAC	Number of HZSQUAAC entries which follow. Each entry contains the length of that entry. That length should be used to get from that entry to the next entry. This field will be non-zero only for REQUEST=CHECKINFO. Use when QUAACVER=0.
8	(8)	SIGNED	4	HZSQUAAHNUMQUAAC1	Number of HZSQUAAC1 entries which follow. Each entry contains the length of that entry. That length should be used to get from that entry to the next entry. This field will be non-zero only for REQUEST=CHECKINFO. Use when QUAACVER=1.
12	(C)	ADDRESS	4	HZSQUAAHQUAACADDR	Address of first HZSQUAAC Use when QUAACVER=0.
12	(C)	ADDRESS	4	HZSQUAAHQUAAC1ADDR	Address of first HZSQUAAC1. Use when QUAACVER=1.
16	(10)	SIGNED	4	HZSQUAAHNUMHCKL	Number of HZSZHCKL entries which follow. Each entry contains the length of that entry in field HckLog_BufLen. That length should be used to get from that entry to the next entry. This field will be non-zero only for REQUEST=MSGBUFF
20	(14)	ADDRESS	4	HZSQUAAHHCKLADDR	Address of first HZSZHCKL
24	(18)	CHARACTER	8	HZSQUAAHNONINTERFACE1	Not part of the intended interface
32	(20)	SIGNED	4	HZSQUAAHNUMQUAAG	Number of HZSQUAAG entries which follow. It will be either 0 or 1
36	(24)	ADDRESS	4	HZSQUAAHQUAAGADDR	Address of the HZSQUAAG entry when HzsquaaHNumQuaaG is not 0
40	(28)	CHARACTER	8		Reserved
48	(30)	CHARACTER	26	HZSQUAAHLOGSTREAMNAME	The logstream that HC is currently using. This is not provided for REQUEST=MSGBUFF INSTANCE=LOGSTREAM

Table 985. Structure HZSQUAAHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
74	(4A)	CHARACTER	4		Reserved
78	(4E)	BITSTRING	2	HZSQUAAHFLAGS	
78	(4E)	BITSTRING	1	HZSQUAAHFLAGSBYTE0	
Bit definitions:					
		1...		HZSQUAAH_MSGBUFFWRONGINSTANCE	"X'80'" The MSGTOKEN designated a previous instance of the check's output. The data returned corresponds to the current instance of the check's output. This does not apply for REQUEST=MSGBUFF INSTANCE=LOGSTREAM
		.1..		HZSQUAAH_MSGBUFFINSTANCEISCURRENT	"X'40'" The data returned is for the current instance of the check's output. This will not be set for REQUEST=MSGBUFF INSTANCE=LOGSTREAM
		..1.		HZSQUAAH_MSGBUFFINCOMPLETE	"X'20'" When retrieving for INSTANCE=LOGSTREAM, the system found that not all records for this check iteration were available to be retrieved from the logstream, and so returned just what was available
79	(4F)	BITSTRING	1	HZSQUAAHFLAGSBYTE1	
80	(50)	CHARACTER	8	HZSQUAAHPROCNAME	Name of PROC used. This is not provided for REQUEST=MSGBUFF INSTANCE=LOGSTREAM
88	(58)	CHARACTER	8	HZSQUAAHSTID	Started Task ID. This is not provided for REQUEST=MSGBUFF INSTANCE=LOGSTREAM
96	(60)	CHARACTER	16	HZSQUAAHDIAG	Diagnostic data. Valid only when documented for specific reason codes
112	(70)	CHARACTER	16		Reserved
Constants used within HZSQUERY					
112	(70)	X'80'	0	HZSQUERY_MIN_ANSLEN	"128"
112	(70)	X'80'	0	HZSQUAAHDR_LEN	"*-HZSQUAAHDR"

Table 986. Structure HZSQUAAHDR64

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HZSQUAAHDR64	Header section when Ansarea64 was specified on HZSQUERY
0	(0)	SIGNED	8	HZSQUAAH64TLEN	Total length of answer area needed to contain all of the requested information. This includes the area for the records that were returned on this call.

Table 986. Structure HZSQUAAHDR64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	SIGNED	8	HZSQUAAH64NUMQUAAC	Number of HZSQUAAC entries which follow. Each entry contains the length of that entry. That length should be used to get from that entry to the next entry. This field will be non-zero only for REQUEST=CHECKINFO. Use when QUAACVER=0.
8	(8)	SIGNED	8	HZSQUAAH64NUMQUAAC1	Number of HZSQUAAC1 entries which follow. Each entry contains the length of that entry. That length should be used to get from that entry to the next entry. This field will be non-zero only for REQUEST=CHECKINFO. Use when QUAACVER=1.
16	(10)	ADDRESS	8	HZSQUAAH64QUAACADDR	Address of first HZSQUAAC. Use when QUAACVER=0.
16	(10)	ADDRESS	8	HZSQUAAH64QUAAC1ADDR	Address of first HZSQUAAC1. Use when QUAACVER=1.
24	(18)	SIGNED	8	HZSQUAAH64NUMHCKL	Number of HZSZHCKL entries which follow. Each entry contains the length of that entry in field HckLog_BufLen. That length should be used to get from that entry to the next entry. This field will be non-zero only for REQUEST=MSGBUFF
32	(20)	ADDRESS	8	HZSQUAAH64HCKLADDR	Address of first HZSZHCKL
40	(28)	CHARACTER	16	HZSQUAAH64NONINTERFACE1	Not part of the intended interface
56	(38)	SIGNED	8	HZSQUAAH64NUMQUAAG	Number of HZSQUAAG entries which follow. It will be either 0 or 1
64	(40)	ADDRESS	8	HZSQUAAH64QUAAGADDR	Address of the HZSQUAAG entry when HzsQuaaH64NumQuaaG is not 0
72	(48)	CHARACTER	26	HZSQUAAH64LOGSTREAMNAME	The logstream that HC is currently using. This is not provided for REQUEST=MSGBUFF INSTANCE=LOGSTREAM
98	(62)	BITSTRING	2	HZSQUAAH64FLAGS	
98	(62)	BITSTRING	1	HZSQUAAH64FLAGSBYTE0	
Bit definitions:					
		1...		HZSQUAAH64_MSGBUFFWRONGINSTANCE	"X'80'" The MSGTOKEN designated a previous instance of the check's output. The data returned corresponds to the current instance of the check's output. This does not apply for REQUEST=MSGBUFF INSTANCE=LOGSTREAM
		.1..		HZSQUAAH64_MSGBUFFINSTANCEISCURRENT	

Table 986. Structure HZSQUAAHDR64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'40'" The data returned is for the current instance of the check's output. This will not be set for REQUEST=MSGBUFF INSTANCE=LOGSTREAM
		..1.		HZSQUAAH64_MSGBUFFINCOMPLETE	
					"X'20'" When retrieving for INSTANCE=LOGSTREAM, the system found that not all records for this check iteration were available to be retrieved from the logstream, and so returned just what was available
99	(63)	BITSTRING	1	HZSQUAAH64FLAGSBYTE1	
100	(64)	CHARACTER	4		Reserved
104	(68)	CHARACTER	8	HZSQUAAH64PROCNAME	Name of PROC used. This is not provided for REQUEST=MSGBUFF INSTANCE=LOGSTREAM
112	(70)	CHARACTER	8	HZSQUAAH64STID	Started Task ID. This is not provided for REQUEST=MSGBUFF INSTANCE=LOGSTREAM
120	(78)	CHARACTER	16	HZSQUAAH64DIAG	Diagnostic data. Valid only when documented for specific reason codes
136	(88)	CHARACTER	56		Reserved
Constants used within HZSQUERY					
136	(88)	X'C0'	0	HZSQUERY_MIN_ANSLEN64	"192"
136	(88)	X'C0'	0	HZSQUAAHDR64_LEN	"*-HZSQUAAHDR64"

Table 987. Structure HZSQUAAC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HZSQUAAC	Check entry
0	(0)	CHARACTER	24	HZSQUAACHDR	Header of Check Entry
0	(0)	SIGNED	2	HZSQUAACLEN	Length of this entry. Add this length to the address of this entry to get the address of the next entry
2	(2)	BITSTRING	1	HZSQUAACTYPE	Type of this check See equates of the form HzsquaaCType_xxx
3	(3)	CHARACTER	5		Reserved
8	(8)	CHARACTER	16	HZSQUAACMSGTOKEN	The token to be used by HZSQUERY REQUEST=MSGBUFF to obtain the first message buffer associated with the specified check. Valid only for a check for which HzsquaaCType is HzsquaaCType_NotDeleted
8	(8)	CHARACTER	8		
16	(10)	SIGNED	4	HZSQUAAC_CHECKHASRUNCOUNT	This corresponds to PQE_Cum_Check_Count within HZSPQE
20	(14)	CHARACTER	4		

Table 987. Structure HZSQUAAC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	CHARACTER	4096	HZSQUAACDATA	The format of the check data depends on the type of the check.
24	(18)	CHARACTER	4096	HZSQUAACDATA_PQE	When OutputStyle=FULL is in effect and HzsquaaCType is HzsquaaCType_NotDeleted or HzsquaaCType_DeletePending, HzsquaaCData is mapped by HZSPQE
24	(18)	CHARACTER	2048	HZSQUAACDATA_NO_CHKWORK_PQE	When OutputStyle=NO_CHKWORK is in effect and HzsquaaCType is HzsquaaCType_NotDeleted or HzsquaaCType_DeletePending, HzsquaaCData is mapped by HZSPQE up to but not including the PQE_CHKWORK field
24	(18)	CHARACTER	1024	HZSQUAACDATA_DPQE	When OutputStyle=FULL or OutputStyle=NO_CHKWORK is in effect, and when HzsquaaCType is HzsquaaCType_Deleted, HzsquaaCData is mapped by HZSDPQE
24	(18)	CHARACTER	80	HZSQUAACDATA_QUAACS	When OutputStyle=SHORT is requested, HzsquaaCData is mapped by DSECT HZSQUAACS
4120	(1018)	X'0'	0	HZSQUAACTYPE_NOTDELETED	"0"
4120	(1018)	X'1'	0	HZSQUAACTYPE_DELETEPENDING	"1"
4120	(1018)	X'2'	0	HZSQUAACTYPE_DELETED	"2"
4120	(1018)	X'1018'	0	HZSQUAAC_LEN	"*-HZSQUAAC"

Table 988. Structure HZSQUAAC1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HZSQUAAC1	Check entry
0	(0)	CHARACTER	64	HZSQUAAC1HDR	Header of Check Entry
0	(0)	CHARACTER	24	HZSQUAAC1HDR0	Matches QuaacHdr
0	(0)	SIGNED	2	HZSQUAAC1LEN	Length of this entry. Add this length to the address of this entry to get the address of the next entry. This field is ignored when it is part of an input QUAAC1HDR, and is not set when it is part of an output QUAAC1HDR
2	(2)	BITSTRING	1	HZSQUAAC1TYPE	Type of this check See equates of the form HzsquaaC1Type_xxx This field is ignored when it is part of an input QUAAC1HDR, and is not set when it is part of an output QUAAC1HDR
3	(3)	CHARACTER	5		Reserved

Table 988. Structure HZSQUAAC1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	CHARACTER	16	HZSQUAAC1MSGTOKEN	The token to be used by HZSQUERY REQUEST=MSGBUFF to obtain the first message buffer associated with the specified check. Valid only for a check for which HzsquaaC1Type is HzsquaaC1Type_NotDeleted. This field is ignored when it is part of an input QUAAC1HDR, and is not set when it is part of an output QUAAC1HDR
24	(18)	CHARACTER	40	HZSQUAAC1HDR1	More after QuaacHdr
24	(18)	CHARACTER	8	HZSQUAAC1LOGSTREAMBLOCKID	This is the block ID of the first log block produced by the previous iteration of the check. If the value is 0's there is no previous block and you should not attempt to retrieve this non-existent block via HZSQUERY
32	(20)	CHARACTER	26	HZSQUAAC1LOGSTREAMNAME	This is the name of the logstream into which the first log block produced by the previous iteration of the check was written
58	(3A)	CHARACTER	2		Reserved
60	(3C)	CHARACTER	4	HZSQUAAC1KEEPTOKEN	A token associated with KEEP=YES and KEEP=CLOSE processing
64	(40)	CHARACTER	4096	HZSQUAAC1DATA	The format of the check data depends on the type of the check.
64	(40)	CHARACTER	4096	HZSQUAAC1DATA_PQE	When OutputStyle=FULL is in effect and HzsquaaC1Type is HzsquaaC1Type_NotDeleted or HzsquaaC1Type_DeletePending, HzsquaaC1Data is mapped by HZSPQE
64	(40)	CHARACTER	2048	HZSQUAAC1DATA_NO_CHKWORK_PQE	When OutputStyle=NO_CHKWORK is in effect and HzsquaaC1Type is HzsquaaC1Type_NotDeleted or HzsquaaC1Type_DeletePending, HzsquaaC1Data is mapped by HZSPQE up to but not including the PQE_CHKWORK field
64	(40)	CHARACTER	1024	HZSQUAAC1DATA_DPQE	When HzsquaaC1Type is HzsquaaC1Type_Deleted, HzsquaaC1Data is mapped by HZSDPQE
64	(40)	CHARACTER	80	HZSQUAAC1DATA_QUAACS	When OutputStyle=SHORT is requested, HzsquaaC1Data is mapped by DSECT HZSQUAACS
4160	(1040)	X'0'	0	HZSQUAAC1TYPE_NOTDELETED	"0"
4160	(1040)	X'1'	0	HZSQUAAC1TYPE_DELETEPENDING	"1"
4160	(1040)	X'2'	0	HZSQUAAC1TYPE_DELETED	"2"

Table 988. Structure HZSQUAAC1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4160	(1040)	X'1040'	0	HZSQUAAC1_LEN	"*-HZSQUAAC1"

Table 989. Structure HZSQUAAG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HZSQUAAG	Summary Entry
0	(0)	CHARACTER	16	HZSQUAAGHDR	
0	(0)	CHARACTER	16		
16	(10)	CHARACTER	6		Reserved
22	(16)	SIGNED	2	HZSQUAAGNUMPARMLIBMEMBERSUFFIXES	
24	(18)	CHARACTER	248	HZSQUAAGPARMLIBMEMBERSUFFIXES	Contains the parmlib member suffixes. Each is two characters long. The N suffixes indicated by the NumParmlibMemberSuffixes field, occupy the first 2*N bytes of the area
272	(110)	SIGNED	4	HZSQUAAGNUMCHECKSNOTDELETED	Number of checks that are not deleted and are not delete pending
276	(114)	SIGNED	4	HZSQUAAGNUMCHECKSDELETED	Number of checks that are deleted (they are no longer delete pending)
280	(118)	SIGNED	4	HZSQUAAGNUMCHECKSDELETEPENDING	Number of checks that are delete pending (they are not yet deleted)
284	(11C)	SIGNED	4	HZSQUAAGNUMCHECKSELIGIBLE	Number of checks that are eligible to run when their next time interval arrives
288	(120)	SIGNED	4	HZSQUAAGNUMCHECKSCURRENTLYRUNNING	
292	(124)	SIGNED	4	HZSQUAAGNUMCHECKSINELIGIBLE	Number of checks (ignoring those that are deleted or delete pending) that are not eligible to run. Among the reasons for not being eligible to run are: Check was the target of a DEACTIVATE command or was updated to the INACTIVE state. Check determined that this was the wrong environment. Check experienced repeated errors. Check detected an error in its input PARM value(s).
296	(128)	CHARACTER	16	HZSQUAAGPOLICYNAME	The name of the currently active policy
312	(138)	SIGNED	4	HZSQUAAGNUMEXCEPTIONSOUTSTANDING	
316	(13C)	SIGNED	4	HZSQUAAGNUMEXCEPTIONSSEVNONE	
320	(140)	SIGNED	4	HZSQUAAGNUMEXCEPTIONSSEVLOW	
324	(144)	SIGNED	4	HZSQUAAGNUMEXCEPTIONSSEVMEDIUM	
328	(148)	SIGNED	4	HZSQUAAGNUMEXCEPTIONSSEVHIGH	

Table 989. Structure HZSQUAAG (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
332	(14C)	SIGNED	4	HZSQUAAGNUMPDATARECORDS	The number of 80-byte persistent data records to be written to the HZSPDATA data set when the next write is done.
336	(150)	CHARACTER	8	HZSQUAAGTIMESINCESTART	In STCK units
344	(158)	CHARACTER	8	HZSQUAAGNUMIXGWRITES	The number of logstream writes that have been done or that would have been done if logger had been available
352	(160)	CHARACTER	8	HZSQUAAGNUMBYTESIXGWRITE	The number of bytes that have been written to the logstream or that would have been written if logger had been available
360	(168)	CHARACTER	120		Reserved
360	(168)	X'1E0'	0	HZSQUAAG_LEN	"*-HZSQUAAG"

Table 990. Structure HZSQUAACS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HZSQUAACS	Short Check entry
0	(0)	CHARACTER	48	HZSQUAACS_CHECKOWNERNAME	
0	(0)	CHARACTER	16	HZSQUAACS_CHECKOWNER	owning company and/or component
16	(10)	CHARACTER	32	HZSQUAACS_CHECKNAME	check name
48	(30)	CHARACTER	8	HZSQUAACS_DEFAULTDATE	Date of Default parm YYYYMMDD. Valid only when HzsquaaCType is HzsquaaCType_NotDeleted
56	(38)	CHARACTER	8	HZSQUAACS_LASTRAN	When the check last ran, in STCK format. Valid only when HzsquaaCType is HzsquaaCType_NotDeleted
64	(40)	SIGNED	4	HZSQUAACS_LASTRESULT	Result from the last check invocation (See equates PQE_Result_xxx in macro HZSPQE) =0, No exceptions found (Or SEV(None) w/exceptions) =4, SEV(L) Exception found =8, SEV(M) Exception found =12, SEV(H) Exception found. Valid only when HzsquaaCType is HzsquaaCType_NotDeleted
68	(44)	SIGNED	4	HZSQUAACS_LASTOUTSTANDINGEXCEPTIONS	Number of outstanding exceptions from the last check invocation. Valid only when HzsquaaCType is HzsquaaCType_NotDeleted
72	(48)	CHARACTER	8		Reserved
72	(48)	X'50'	0	HZSQUAACS_LEN	"*-HZSQUAACS"

Table 991. Cross Reference for HZSQUAA

Name	Offset	Hex Tag
HZSQUAAC	0	
HZSQUAAC_CHECKHASRUNCOUNT	10	

Table 991. Cross Reference for HZSQUAA (continued)

Name	Offset	Hex Tag
HZSQUAAC_LEN	1018	1018
HZSQUAACDATA	18	
HZSQUAACDATA_DPQE	18	
HZSQUAACDATA_NO_CHKWORK_PQE	18	
HZSQUAACDATA_PQE	18	
HZSQUAACDATA_QUAACS	18	
HZSQUAACHDR	0	
HZSQUAACLEN	0	
HZSQUAACMSGTOKEN	8	
HZSQUAACS	0	
HZSQUAACS_CHECKNAME	10	
HZSQUAACS_CHECKOWNER	0	
HZSQUAACS_CHECKOWNERNAME	0	
HZSQUAACS_DEFAULTDATE	30	
HZSQUAACS_LASTOUTSTANDINGEXCEPTIONS	44	
HZSQUAACS_LASTRAN	38	
HZSQUAACS_LASTRESULT	40	
HZSQUAACS_LEN	48	50
HZSQUAACTYPE	2	
HZSQUAACTYPE_DELETED	1018	2
HZSQUAACTYPE_DELETEPENDING	1018	1
HZSQUAACTYPE_NOTDELETED	1018	0
HZSQUAAC1	0	
HZSQUAAC1_LEN	1040	1040
HZSQUAAC1DATA	40	
HZSQUAAC1DATA_DPQE	40	
HZSQUAAC1DATA_NO_CHKWORK_PQE	40	
HZSQUAAC1DATA_PQE	40	
HZSQUAAC1DATA_QUAACS	40	
HZSQUAAC1HDR	0	
HZSQUAAC1HDR0	0	
HZSQUAAC1HDR1	18	
HZSQUAAC1KEEPTOKEN	3C	
HZSQUAAC1LEN	0	
HZSQUAAC1LOGSTREAMBLOCKID	18	
HZSQUAAC1LOGSTREAMNAME	20	
HZSQUAAC1MSGTOKEN	8	
HZSQUAAC1TYPE	2	
HZSQUAAC1TYPE_DELETED	1040	2
HZSQUAAC1TYPE_DELETEPENDING	1040	1
HZSQUAAC1TYPE_NOTDELETED	1040	0
HZSQUAAG	0	
HZSQUAAG_LEN	168	1E0
HZSQUAAGHDR	0	
HZSQUAAGNUMBYTESIXGWRITE	160	
HZSQUAAGNUMCHECKSCURRENTLYRUNNING	120	
HZSQUAAGNUMCHECKSDELETED	114	
HZSQUAAGNUMCHECKSDELETEPENDING	118	
HZSQUAAGNUMCHECKSELIGIBLE	11C	

Table 991. Cross Reference for HZSQUAA (continued)

Name	Offset	Hex Tag
HZSQUAAGNUMCHECKSINELIGIBLE	124	
HZSQUAAGNUMCHECKSNOTDELETED	110	
HZSQUAAGNUMEXCEPTIONSOUTSTANDING	138	
HZSQUAAGNUMEXCEPTIONSSEVHIGH	148	
HZSQUAAGNUMEXCEPTIONSSEVLOW	140	
HZSQUAAGNUMEXCEPTIONSSEVMEDIUM	144	
HZSQUAAGNUMEXCEPTIONSSEVNONE	13C	
HZSQUAAGNUMIXGWRITES	158	
HZSQUAAGNUMPARMLIBMEMBERSUFFIXES	16	
HZSQUAAGNUMPDATARECORDS	14C	
HZSQUAAGPARMLIBMEMBERSUFFIXES	18	
HZSQUAAGPOLICYNAME	128	
HZSQUAAGTIMESINCESTART	150	
HZSQUAAH_MSGBUFFINCOMPLETE	4E	20
HZSQUAAH_MSGBUFFINSTANCEISCURRENT	4E	40
HZSQUAAH_MSGBUFFWRONGINSTANCE	4E	80
HZSQUAAHDIAG	60	
HZSQUAAHDR	0	
HZSQUAAHDR_LEN	70	80
HZSQUAAHDR64	0	
HZSQUAAHDR64_LEN	88	C0
HZSQUAAHFLAGS	4E	
HZSQUAAHFLAGSBYTE0	4E	
HZSQUAAHFLAGSBYTE1	4F	
HZSQUAAHHCKLADDR	14	
HZSQUAAHLOGSTREAMNAME	30	
HZSQUAAHNONINTERFACE1	18	
HZSQUAAHNUMHCKL	10	
HZSQUAAHNUMQUAAC	8	
HZSQUAAHNUMQUAAC1	8	
HZSQUAAHNUMQUAAG	20	
HZSQUAAHPROCNAME	50	
HZSQUAAHQUAACADDR	C	
HZSQUAAHQUAAC1ADDR	C	
HZSQUAAHQUAAGADDR	24	
HZSQUAAHSTID	58	
HZSQUAAHTLEN	0	
HZSQUAAH64_MSGBUFFINCOMPLETE	62	20
HZSQUAAH64_MSGBUFFINSTANCEISCURRENT	62	40
HZSQUAAH64_MSGBUFFWRONGINSTANCE	62	80
HZSQUAAH64DIAG	78	
HZSQUAAH64FLAGS	62	
HZSQUAAH64FLAGSBYTE0	62	
HZSQUAAH64FLAGSBYTE1	63	
HZSQUAAH64HCKLADDR	20	
HZSQUAAH64LOGSTREAMNAME	48	
HZSQUAAH64NONINTERFACE1	28	
HZSQUAAH64NUMHCKL	18	
HZSQUAAH64NUMQUAAC	8	

Table 991. Cross Reference for HZSQUAA (continued)

Name	Offset	Hex Tag
HZSQUAAH64NUMQUAAC1	8	
HZSQUAAH64NUMQUAAG	38	
HZSQUAAH64PROCNAME	68	
HZSQUAAH64QUAACADDR	10	
HZSQUAAH64QUAAC1ADDR	10	
HZSQUAAH64QUAAGADDR	40	
HZSQUAAH64STID	70	
HZSQUAAH64TLEN	0	
HZSQUERY_MIN_ANSLEN	70	80
HZSQUERY_MIN_ANSLEN64	88	C0

Chapter 241. HZSZCONS Information

HZSZCONS Programming Interface Information

HZSZCONS is a programming interface.

HZSZCONS Heading Information

Common Name:	HZSxxxxx Return/Reason code constants
Macro ID:	HZSZCONS
DSECT Name:	None
Owning Component:	IBM Health Checker (SCHZS)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: N/A Key: N/A Residency: Caller-supplied
Size:	N/A
Created by:	N/A
Pointed to by:	N/A
Serialization:	None required
Function:	Provide equates for return and reason codes.

HZSZCONS mapping

Table 992. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

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Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
   HZSZCONS_1:;
   START OF SPECIFICATIONS
    PROPRIETARY_STATEMENT
  01 PROPRIETARY STATEMENT=
   LICENSED MATERIALS - PROPERTY OF IBM
   5650-ZOS COPYRIGHT IBM CORP. 2005,2015
   STATUS= HBB77A0
    END_OF_PROPRIETARY_STATEMENT
01 DESCRIPTIVE NAME: HZSxxxxx Return/Reason code constants
02 ACRONYM: CONS
01 MACRO NAME: HZSZCONS
01 EXTERNAL CLASSIFICATION: PI
01 END OF EXTERNAL CLASSIFICATION:
01 DSECT NAME:
     None
01 COMPONENT: IBM Health Checker (SCHZS)
01 EYE-CATCHER: NONE
01 STORAGE ATTRIBUTES:
02 SUBPOOL: N/A
02 KEY: N/A
02 RESIDENCY: Caller-supplied
01 SIZE: N/A
01 CREATED BY:
     N/A
01 POINTED TO BY:
     N/A
01 SERIALIZATION:
     None required
01 FUNCTION:
02 Provide equates for return and reason codes.
01 METHOD OF ACCESS:
02 ASM:
      HZSZCONS
02 PL/X:
      %INCLUDE SYSLIB(HZSZCONS)
01 DELETED BY: N/A
01 FREQUENCY: N/A
01 DEPENDENCIES: hzshcons.h Metal C header file
01 DISTRIBUTION LIBRARY: AMACLIB
01 CHANGE ACTIVITY:
   $L0=HCHECK ,HBB7720,041001,PD00XB: Health Checker
   $L1=HCHECK ,HBB7720,041001,PD00XB: Health Checker
   $P1=xxxxxxx ,HZS7720,050423,PDMP: ADDNEW|REF ^allowed from DynExit
   $L2=HCR8 HBB7730 051001 PD00XB: R8
   $P2=ME05722 HBB7730,060225,PD00XB: remote msgtable
   $P3=xxxxxxx HBB7730,061105,PD00ZJ: 4114x used twice
   $L3=HCR10 HBB7750 070101 PD00XB: R10
   $L4=LI1472 HBB7770 090924 RD00UT: Hzsfmsg Abend rc/rsn
   $L5=LI1472 HBB7770 091124 RD00UT: Hzsfmsg Abend rc/rsn
   $L6=HCR12 HBB7770 100118 RD00UT: Access register wording
   $L7=LI1472 HBB7770 100225 RD00UT: Hzsfmsg Abend rc/rsn
 $UT02=LI2088 HBB7780 100519 RD00UT: REQUEST=DOM Abend rsns
 $UT04=ME19781 HBB7780 100828 RD00UT: Dynamic severity Abend rsns
```

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
$UT08=OA34313 HBB7770 101025 RD00UT: Hzsfmsg Abend rc/rsn $L8=ME22111 HBB7790 110721 RD00UT: DIRECTMSG ID blanks $P4=ME22431 HBB7790 110829 RD00UT: DIRECTMSG RC10x RSN1015x $L9=HCAUTOST HBB7790 111128 RD00UT: HZSCHECK PARSEPROCPARM $P5=ME23817 HBB7790 120327 RD00UT: PEToken RC/RSN $LA=HCAUTOST HBB7790 121218 RD00UT: no PARSEPROCPARM $LB=REXXPDTA HBB77A0 130506 RD00UT: HZSLPDWR/HZSLPDRD ranges $LC=ME26966 HBB77A0 131227 RD00UT: BadPETOKENAUTH $LD=ME27021 HBB77A0 140120 RD00UT: HzsQueryRsn_IxgRet $LE=ME27395 HBB77A0 140404 RD00UT: HzsaddckRsn_BadCheckRoutine64 Any and all changes to this macro MUST also be reflected in the corresponding Metal C header file hzshcons.h END OF SPECIFICATIONS Note carefully that bits 0-15 of the reason code or abend reason code may contain component-diagnostic data and must not be assumed to be 0.					
0	(0)	BITSTRING	0	HZSRSNCODEMASK	"X'0000FFFF'" Use this mask to isolate the non component-diagnostic portion of the reason code or abend reason code
General abend reason code definitions					
0	(0)	X'4FFF'	0	HZSABEND_DELETEFORCE	"20479" DELETE FORCE=YES was requested against a running check
0	(0)	X'4FFE'	0	HZSABEND_SUBTASKS	"20478" Upon completion of calling the check routine, one or more subtasks exist
End of General abend reason code definitions					
0	(0)	BITSTRING	0	HZSADDCKRSNCODEMASK	"X'0000FFFF'" Use this mask to isolate the non component-diagnostic portion of the reason code.
HZSADDCK Return and Reason Code definitions					
	....			HZSADDCKRC_OK	"X'00000000'" Meaning: The check was added to IBM Health Checker for z/OS. Action: None required
	.... .1..			HZSADDCKRC_WARN	"X'00000004'" Meaning: Warning Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSADDCKRSN_CHECKREPLACED	"X'00000401'" Meaning: The check replaced an active check that had an earlier date. Action: None required.
0	(0)	BITSTRING	0	HZSADDCKRSN_CHECKINACTIVE	"X'00000402'" Meaning: The check was added but will not run until its state is changed to active. Action: None required
0	(0)	BITSTRING	0	HZSADDCKRSN_CHECKIDENTICAL	"X'00000414'" Meaning: Check was not activated because a check with the specified name is already active. Action: None required

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		HZSADDCKRC_INVPARM	"X'00000008'" Meaning: HZSADDCK request specifies incorrect parameters. Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSADDCKRSN_CHECKOLD	"X'00000801'" Meaning: The check was not added because a check with the same name is already being added. That other check has a more recent date than the date provided for this request. Action: Avoid adding the same check twice, or make sure that the single version of the check that you want to run has the most current date.
0	(0)	BITSTRING	0	HZSADDCKRSN_BADCHECKROUTINE	"X'00000804'" Meaning: This reason code is not part of the programming interface. Action: None.
0	(0)	BITSTRING	0	HZSADDCKRSN_BADMESSAGETABLE	"X'00000805'" Meaning: This reason code is not part of the programming interface. Action: None.
0	(0)	BITSTRING	0	HZSADDCKRSN_BADENV	"X'00000808'" Meaning: HZSADDCK for a REMOTE=NO check must be called only from an exit routine associated with the HZSADDCHECK exit. HZSADDCK for a REXX=YES check may not be issued by a user program. Action: Issue HZSADDCK only from a supported environment.
0	(0)	BITSTRING	0	HZSADDCKRSN_BADCHECKNAME	"X'00000809'" Meaning: The check name contained invalid characters. Action: Specify a valid check name.
0	(0)	BITSTRING	0	HZSADDCKRSN_BADOWNERNAME	"X'0000080A'" Meaning: The check owner contained invalid characters. Action: Specify a valid check owner.
0	(0)	BITSTRING	0	HZSADDCKRSN_BADDATE	"X'0000080B'" Meaning: The date was not in the format YYYYMMDD or is after today's date. Action: Specify a valid date.
0	(0)	BITSTRING	0	HZSADDCKRSN_BADREASONLEN	"X'0000080C'" Meaning: The REASONLEN value is either 0 or exceeds the maximum of 126. Action: Specify a valid value for the REASONLEN parameter.
0	(0)	BITSTRING	0	HZSADDCKRSN_BADEXITROUTINE	"X'0000080D'" Meaning: The exit routine name was all zeroes or all blanks. Action: Specify a valid exit routine.

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	HZSADDCKRSN_BADTIME	"X'0000080E'" Meaning: The hours value exceeded 999 or the minutes value exceeded 60. Action: Specify valid hours and minutes values.
0	(0)	BITSTRING	0	HZSADDCKRSN_BADCHECKROUTINE64	"X'0000080F'" Meaning: This reason code is not part of the programming interface. Action: None.
0	(0)	BITSTRING	0	HZSADDCKRSN_BADPARMLIST	"X'00000818'" Meaning: Error accessing parameter list. Action: Make sure that the provided parameter list is valid.
0	(0)	BITSTRING	0	HZSADDCKRSN_BADPARMLISTVERSION	"X'00000838'" Meaning: The specified version of the macro is not compatible with the current version of IBM Health Checker for z/OS. Action: Avoid requesting parameters that are not supported by this version of IBM Health Checker for z/OS.
0	(0)	BITSTRING	0	HZSADDCKRSN_BADPARMSAREA	"X'00000841'" Meaning: Error accessing the PARMS area. Action: Make sure that the provided PARMS area is valid.
0	(0)	BITSTRING	0	HZSADDCKRSN_BADREASONAREA	"X'00000842'" Meaning: Error accessing the REASON area. Action: Make sure that the provided REASON area is valid.
0	(0)	BITSTRING	0	HZSADDCKRSN_BADPARMSLEN	"X'0000084F'" Meaning: The PARMSLEN value is either 0 or exceeds the maximum of 256. Action: Specify a valid value for the PARMSLEN parameter.
0	(0)	BITSTRING	0	HZSADDCKRSN_NOTAUTHORIZED	"X'00000859'" Meaning: Caller is not authorized Action: Avoid calling HZSADDCK when not authorized.
0	(0)	BITSTRING	0	HZSADDCKRSN_BADEXCEPTIONINTERVAL	"X'00000862'" Meaning: The EIHOURS value exceeded 999 or the EIMINUTES value exceeded 60. Action: Specify valid hours and minutes values.
0	(0)	BITSTRING	0	HZSADDCKRSN_BADPETOKEN	"X'00000863'" Meaning: The PEToken is not one obtained using authlvl of IEA_UNAUTHORIZED. Action: Specify a valid PEToken.

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	HZSADDCKRSN_BADPETOKENAUTH	"X'00000868'" Meaning: PETOKENAUTH=YES is not allowed for unauthorized callers. Action: Do not specify PETOKENAUTH=YES when running in problem state, key 8-15, and not APF-authorized.
0	(0)	BITSTRING	0	HZSADDCKRSN_BADPETOKENHOME	"X'0000086A'" Meaning: The PEToken is not one obtained in the HOME address space. Action: Specify a valid PEToken.
0	(0)	BITSTRING	0	HZSADDCKRSN_BADPETOKENSTATE	"X'0000086B'" Meaning: The PEToken is not in a state ready to be used for a PAUSE. Action: Specify a valid PEToken.
0	(0)	BITSTRING	0	HZSADDCKRSN_BADPETOKENVALUE	"X'0000086C'" Meaning: The PEToken appears corrupted. Action: Specify a valid PEToken.
	.... 11..			HZSADDCKRC_ENVERROR	"X'0000000C'" Meaning: Environmental Error Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSADDCKRSN_IBMHCNOTACTIVE	"X'00000C01'" Meaning: IBM Health Checker for z/OS is not active Action: Re-issue the request when the service is available
	...1			HZSADDCKRC_COMPERROR	"X'00000010'" Meaning: Component Error Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSADDCKRSN_BADPETOKENSERVICE	"X'0000106D'" Meaning: Unexpected error. Action: Ensure a valid PEToken has been specified. If this error repeats, contact IBM Support.
0	(0)	BITSTRING	0	HZSADDCKRSN_INTERROR	"X'00001001'" Meaning: Unexpected internal error Action: Report the problem to the system programmer
End of HZSADDCK Return and Reason Code definitions					
0	(0)	BITSTRING	0	HZSCHECKRSNCODEMASK	"X'0000FFFF'" Use this mask to isolate the non component-diagnostic portion of the reason code.
HZSCHECK Return and Reason Code definitions					
	....			HZSCHECKRC_OK	"X'00000000'" Meaning: SECCHECKONLY=YES was requested and the request passed the security check. Action: None required.

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		HZSCHECKRC_WARN	"X'00000004'" Meaning: Warning Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSCHECKRSN_COMMANDQUEUED	"X'00000400'" Meaning: The specified HZSCHECK will be completed asynchronously Action: None needed
		.... 1...		HZSCHECKRC_INVPARM	"X'00000008'" Meaning: HZSCHECK request specifies incorrect parameters. Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSCHECKRSN_NOTAUTHORIZED	"X'00000801'" Meaning: Caller is not authorized Action: Avoid calling HZSCHECK when not authorized.
0	(0)	BITSTRING	0	HZSCHECKRSN_BADPARMLIST	"X'00000818'" Meaning: Error accessing the parameter list Action: Make sure that the provided parameter list is valid.
0	(0)	BITSTRING	0	HZSCHECKRSN_BADADDREPCATAREA	"X'00000829'" Meaning: Error while reading the AddCat or RepCat array Action: Make sure that the provided area is valid.
0	(0)	BITSTRING	0	HZSCHECKRSN_BADREMCATAREA	"X'0000082A'" Meaning: Error while reading the RemCat array Action: Make sure that the provided area is valid.
0	(0)	BITSTRING	0	HZSCHECKRSN_BADPARMLISTVERSION	"X'00000838'" Meaning: The specified version of the macro is not compatible with the current version of IBM Health Checker for z/OS. Action: Avoid requesting parameters that are not supported by this version of IBM Health Checker for z/OS.
0	(0)	BITSTRING	0	HZSCHECKRSN_BADPARMLISTALET	"X'00000847'" Meaning: Bad parameter list ALET. Action: Make sure that the ALET associated with the parameter list is valid. The access register might not have been set up correctly.
0	(0)	BITSTRING	0	HZSCHECKRSN_BADPARMLISTVALUE	"X'0000084B'" Meaning: A parameter list field contains an unsupported value. Action: Check for possible storage overlay
0	(0)	BITSTRING	0	HZSCHECKRSN_BADCATEGORYALET	

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'0000084C'" Meaning: Bad category ALET. Action: Make sure that the ALET associated with the category area is valid. The access register might not have been set up correctly.
0	(0)	BITSTRING	0	HZSCHECKRSN_BADCATEGORYAREA	
					"X'0000084D'" Meaning: Error accessing category area. Action: Make sure that the provided category area is valid.
0	(0)	BITSTRING	0	HZSCHECKRSN_BADADDREPCATALET	
					"X'00000853'" Meaning: Bad ALET for AddCat or RepCat array. Action: Make sure that the ALET associated with the AddCat or RepCat array is valid. The access register might not have been set up correctly.
0	(0)	BITSTRING	0	HZSCHECKRSN_BADREMCATALET	"X'00000854'" Meaning: Bad ALET for RemCat array. Action: Make sure that the ALET associated with the RemCat array is valid. The access register might not have been set up correctly.
0	(0)	BITSTRING	0	HZSCHECKRSN_BADNUMCAT	"X'00000855'" Meaning: Value provided by NUMCAT exceeds the limit of 16. Action: Avoid specifying more than the allowable number of categories.
0	(0)	BITSTRING	0	HZSCHECKRSN_BADNUMADDREPREMCAT	
					"X'00000856'" Meaning: The total value provided by NUMADDCAT, NUMREPCAT, and NUMREMCAT exceeds the limit of 16. Action: Avoid specifying more than the allowable number of categories.
0	(0)	BITSTRING	0	HZSCHECKRSN_BADHANDLE	"X'00000858'" Meaning: The handle provided with the HANDLE parameter is not valid. Action: Specify the handle that was returned by the HZSADDCK macro if this is a REMOTE=YES REXX=NO check, or the handle in REXX variable hzs_handle if this is a REMOTE=YES REXX=YES check.
0	(0)	BITSTRING	0	HZSCHECKRSN_BADPETOKEN	"X'00000863'" Meaning: The PEToken is not one obtained using authlvl of IEA_UNAUTHORIZED. Action: Specify a valid PEToken.
0	(0)	BITSTRING	0	HZSCHECKRSN_BADPQEAREA	"X'00000864'" Meaning: Error while writing to the PQE area Action: Make sure that the provided area is valid.

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	HZSCHECKRSN_BADPQEALET	"X'00000865'" Meaning: Bad ALET for the PQE area. Action: Make sure that the ALET associated with the PQE area is valid. The access register might not have been set up correctly.
0	(0)	BITSTRING	0	HZSCHECKRSN_BADPQECHKWORKAREA	"X'00000866'" Meaning: Error while reading from the PqeChkWork area Action: Make sure that the provided area is valid.
0	(0)	BITSTRING	0	HZSCHECKRSN_BADPQECHKWORKALET	"X'00000867'" Meaning: Bad ALET for the PqeChkWork area. Action: Make sure that the ALET associated with the PqeChkWork area is valid. The access register might not have been set up correctly.
0	(0)	BITSTRING	0	HZSCHECKRSN_BADPETOKENHOME	"X'0000086A'" Meaning: The PEToken is not one obtained in the HOME address space. Action: Specify a valid PEToken.
0	(0)	BITSTRING	0	HZSCHECKRSN_BADPETOKENSTATE	"X'0000086B'" Meaning: The PEToken is not in a state ready to be used for a PAUSE. Action: Specify a valid PEToken.
0	(0)	BITSTRING	0	HZSCHECKRSN_BADPETOKENVALUE	"X'0000086C'" Meaning: The PEToken appears corrupted. Action: Specify a valid PEToken.
	.... 11..			HZSCHECKRC_ENVERROR	"X'0000000C'" Meaning: Environmental Error Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSCHECKRSN_IBMHCNOTACTIVE	"X'00000C01'" Meaning: IBM Health Checker for z/OS is not active Action: For REQUEST=ADDNEW, no action is needed. For any other REQUEST option, re-issue the request when the service is available
0	(0)	BITSTRING	0	HZSCHECKRSN_BADCOMMANDENV	"X'00000C02'" Meaning: The specified command cannot be specified from a HZSADDCHECK dynamic exit Action: Do Not issue a ADDNEW or REFRESH command from a HZSADDCHECK dynamic exit routine

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	HZSCHECKRSN_BADREMOTEENV	"X'00000C03'" Meaning: For REQUEST=OPSTART or REQUEST=OPCOMPLETE, the call must be done only once after having been awakened to process a remote function. For that function, the call may be done only once. For REQUEST=OPSTART, the call must be done before the REQUEST=OPCOMPLETE call. Action: Avoid using REQUEST=OPSTART or REQUEST=OPCOMPLETE in an incorrect environment.
		...1		HZSCHECKRC_COMPERROR	"X'00000010'" Meaning: Component Error Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSCHECKRSN_INTERROR	"X'00001001'" Meaning: Unexpected internal error Action: Report the problem to the system programmer
0	(0)	BITSTRING	0	HZSCHECKRSN_BADPETOKENSERVICE	"X'0000106D'" Meaning: Unexpected error. Action: Ensure a valid PEToken has been specified. If this error repeats, contact IBM Support.
End of HZSCHECK Return and Reason Code definitions					
0	(0)	BITSTRING	0	HZSFMSGRSNCODEMASK	"X'0000FFFF'" Use this mask to isolate the non component-diagnostic portion of the reason code.
HZSFMSG Return and Reason Code definitions					
		....		HZSFMSGRC_OK	"X'00000000'" Meaning: The request completed successfully. Action: None required
		.... .1..		HZSFMSGRC_WARN	"X'00000004'" Meaning: Warning Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSFMSGRSN_DIRECTMSGUSEAMP	"X'0000041A'" Unrecognized pre-defined symbol, or plain & in a DIRECTMSG message. For the latter, use pre-defined symbol &amp<semicolon> instead
		.... 1...		HZSFMSGRC_INVPARM	"X'00000008'" Meaning: HZSFMSG request specifies incorrect parameters. Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSFMSGRSN_ERRORLIMITEXCEEDED	

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000837'" Meaning: The check routine has abended too many times, messages will not be processed. Action: Fix the check routine.
		.... 11..		HZSFMSGRC_ENVERROR	"X'0000000C'" Meaning: Environmental Error Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSFMSGRSN_IBMHCNOTACTIVE	"X'00000C01'" Meaning: IBM Health Checker for z/OS is not active Action: Re-issue the request when the service is available
		...1		HZSFMSGRC_COMPERROR	"X'00000010'" Meaning: Component Error. An associated dump and logrec entry has been created using abend 290 and the reason code. Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSFMSGRSN_INTERROR	"X'00001001'" Meaning: Unexpected internal error Action: Report the problem to the system programmer
0	(0)	BITSTRING	0	HZSFMSGRSN_MSGTBLERROR	"X'00001013'" Meaning: The message table could not be processed. Action: Report the problem to the system programmer
0	(0)	BITSTRING	0	HZSFMSGRSN_PQE_NOTVALID	"X'00001014'" Meaning: The Pqe control block could not be found. Action: Report the problem to the system programmer
0	(0)	BITSTRING	0	HZSFMSGRSN_BADMSGTBLSEGMENT	"X'00001015'" Meaning: A message variable is incorrectly defined in the message table. Action: Report the problem to the system programmer
0	(0)	BITSTRING	0	HFMSGABEND_BADMSGTBLOUTLEN	"X'00001017'" Meaning: The message table contains data that incorrectly defines a Maxlen value. The table is corrupted. Action: Report the problem to the system programmer
0	(0)	BITSTRING	0	HZSFMSGABEND_MSGTBLMISSINGNEWLINE	"X'00001018'" Meaning: The message table contains data that allows a WTO line to exceed 71 characters. The table is corrupted Action: Report the problem to the system programmer
0	(0)	BITSTRING	0	HZSFMSGRSN_HCKLOG_NOTVALID	"X'00001019'" Meaning: The Hcklog control block contains errors. Action: Report the problem to the system programmer

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	HZSFMSGABEND_BADMTS_FIDMINLEN	"X'0000101A'" Meaning: The message table segment contains an invalid format ID. Action: Report the problem to the system programmer
0	(0)	BITSTRING	0	HZSFMSGABEND_BADMTS_VARLEN	"X'0000101B'" Meaning: The message table segment contains an invalid variable length value. Action: Report the problem to the system programmer
0	(0)	BITSTRING	0	HZSFMSGABEND_BADMTS_MAXOUT	"X'0000101C'" Meaning: The message table segment contains an invalid MaxOutLen. Action: Report the problem to the system programmer
0	(0)	BITSTRING	0	HZSFMSGABEND_BADMTS_RULELEVEL	"X'0000101D'" Meaning: The message table segment contains an invalid rule level. Action: Report the problem to the system programmer
0	(0)	BITSTRING	0	HZSFMSGABEND_BADMTS_FIDFORMATMSG	"X'0000101E'" Meaning: The message table segment contains an invalid format ID. Action: Report the problem to the system programmer
0	(0)	BITSTRING	0	HZSFMSGABEND_BADMTS_FIDINSERTVAR	"X'0000101F'" Meaning: The message table segment contains an invalid format ID. Action: Report the problem to the system programmer
0	(0)	BITSTRING	0	HZSFMSGABEND_BADMTS_SYMBOL	"X'00001020'" Meaning: The message table segment contains an invalid symbol ID. Action: Report the problem to the system programmer
End of HZSFMSG Return and Reason Code definitions HZSFMSG Abend Reason code definitions					
0	(0)	X'4106'	0	HZSFMSGABEND_BADMGBSTORAGE	"16646" The MGB or the MGB variable array is not available or could not be accessed
0	(0)	X'4107'	0	HZSFMSGABEND_BADMGBVALUE	"16647" A variable describe in the MGB had a bad address or length
0	(0)	X'4108'	0	HZSFMSGABEND_MSGIDNOTVALID	"16648" The message number provided in Mgb_Id does not exist in the message table.
0	(0)	X'4109'	0	HZSFMSGABEND_BADMGBINSERTCOUNT	

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"16649" The maximum number of varibles allowed in a check message is defined by Mgb_MaxInserts.
0	(0)	X'410A'	0	HZSFMSGABEND_BADMGBINSERTSEQUENCE	
					"16650" The message table requested a variable that is out of sequence or too few inserts
0	(0)	X'410B'	0	HZSFMSGABEND_BADMGBINSERTNOTFOUND	
					"16651" The message definition requires a variable that does not exist in the mgb,
0	(0)	X'410C'	0	HZSFMSGABEND_BADMGBINSERTNOTUSED	
					"16652" The mgb contained variables that were not requested in the associated message
0	(0)	X'410D'	0	HZSFMSGABEND_BADMGBINSERTADDRESS	
					"16653" A variable describe in the MGB had a bad address or length
0	(0)	X'410E'	0	HZSFMSGABEND_BADMGBINSERTLENGTH	
					"16654" A variable describe in the MGB had a bad address or length
0	(0)	X'410F'	0	HZSFMSGABEND_BADPARMLISTSTORAGE	
					"16655" The HZSFMSG parameter was not accessible or not in the callers key.
0	(0)	X'4110'	0	HZSFMSGABEND_MGBNOTFOUND	"16656" The HZSFMSG request CHECKMSG requires a valid MGB control block.
0	(0)	X'4111'	0	HZSFMSGABEND_BADPARMLISTVERSION	
					"16657" The HZSFMSG parameter list contained an unsupported version number.
0	(0)	X'4112'	0	HZSFMSGABEND_BADENV	"16658" The HZSFMSG request was issued by a program that was not a check routine.
0	(0)	X'4113'	0	HZSFMSGABEND_BADHANDLE	"16659" The HANDLE parameter did not specify a valid value.
0	(0)	X'4114'	0	HZSFMSGABEND_BADREMOTEENV	"16660" The HZSFMSG request was issued from a remote routine that was not a check routine.
0	(0)	X'1013'	0	HZSFMSGABEND_MSGTBLERROR	"4115" The message table contained text that could not be processed
0	(0)	X'1014'	0	HZSFMSGABEND_PQE_NOTVALID	"4116" The PQE control block contains errors.
0	(0)	X'1015'	0	HZSFMSGABEND_BADMSGTBLSEGMENT	
					"4117" The message table is corrupted. A message text segment could not be processed

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'4016'	0	HZSFMSGABEND_MAXLENTOOBIG	"16406" A message insert was greater than the max expected length of the NLS skeleton
0	(0)	X'4116'	0	HZSFMSGABEND_FIELDSIZETOOBIG	"16662" A message insert was greater than the max expected length of the NLS skeleton
0	(0)	X'1017'	0	HZSFMSGABEND_BADMSGTBLOUTLEN	"4119" The outlen in the message table is not correct for the variable, the message table is corrupted
0	(0)	X'4115'	0	HZSFMSGABEND_BADABENDRESULT	"16661" The AbendResult parameter could not be set.
0	(0)	X'1019'	0	HZSFMSGABEND_HCKLOG_NOTVALID	"4121" The Hcklog control block contains errors.
0	(0)	X'4117'	0	HZSFMSGABEND_BADREMOTEMSGTABLE	"16663" The message table supplied by a remote check is not valid. Make sure that the message table was created by the HZSMSGEN exec and has not been overlaid
0	(0)	X'4118'	0	HZSFMSGABEND_WRONGREMOTEFUNCTION	"16664" A remote routine issued HZSFMSG other than from the INITRUN or RUN function, or had not issued HZSCHECK REQUEST=OPSTART
0	(0)	X'4119'	0	HZSFMSGABEND_BADREQUEST	"16665" HZSFMSG has been called with an unrecognized REQUEST type
0	(0)	X'4120'	0	HZSFMSGABEND_BADREASON	"16672" HZSFMSG has been called with an unrecognized REASON for this particular REQUEST type
0	(0)	X'4122'	0	HZSFMSGABEND_DIRECTMSGBADIDLEN	"16674" IDLEN parameter is out of range @L7C
0	(0)	X'4123'	0	HZSFMSGABEND_DIRECTMSGBADTEXTLEN	"16675" TEXTLEN parameter is out of range
0	(0)	X'4124'	0	HZSFMSGABEND_DIRECTMSGBADIDADDR	"16676" ID parameter is null
0	(0)	X'4125'	0	HZSFMSGABEND_DIRECTMSGBADTEXTADDR	"16677" TEXT parameter is null
0	(0)	X'1126'	0	HZSFMSGABEND_BLDVLBADSEGLEN	"4390" Unexpected internal MsgSegLen @L7C
0	(0)	X'1127'	0	HZSFMSGABEND_BLDVLBADLINESTART	"4391" Unexpected internal LineStartPos@L7C

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'1128'	0	HZSFMSGABEND_BLDVLBADWRAP	"4392" Unexpected internal text wrap
0	(0)	X'1129'	0	HZSFMSGABEND_EXFRAGBADMAX	"4393" Unexpected internal fragment max@L7C
0	(0)	X'112A'	0	HZSFMSGABEND_EXFRAGBADPOS	"4394" Unexpected internal fragment start@L7C
0	(0)	X'1130'	0	HZSFMSGABEND_DMMTSBADSET	"4400" Internal: Bad MTSSource SetText
0	(0)	X'1138'	0	HZSFMSGABEND_UBSBADGET	"4408" Internal: Bad ByteSrc GetChar
0	(0)	X'1139'	0	HZSFMSGABEND_UBSBADPEEK	"4409" Internal: Bad ByteSrc peekUBS
0	(0)	X'113A'	0	HZSFMSGABEND_UBSBADSKIP	"4410" Internal: Bad ByteSrc skipUBS
0	(0)	X'412B'	0	HZSFMSGABEND_DIRECTMSGBADEXPLADDR	"16683" EXPL parameter is null
0	(0)	X'412C'	0	HZSFMSGABEND_DIRECTMSGBADEXPLLEN	"16684" EXPLLEN parameter is out of range
0	(0)	X'112D'	0	HZSFMSGABEND_MSGBLOCKTOOSMALL	"4397" internal message block buffer exhausted @L7C
0	(0)	X'412E'	0	HZSFMSGABEND_DIRECTMSGBADSYSACTADDR	"16686" SYSACT parameter is null
0	(0)	X'412F'	0	HZSFMSGABEND_DIRECTMSGBADSYSACTLEN	"16687" SYSACTLEN parameter is out of range
0	(0)	X'4130'	0	HZSFMSGABEND_DIRECTMSGBADORESPADDR	"16688" ORESP parameter is null
0	(0)	X'4131'	0	HZSFMSGABEND_DIRECTMSGBADORESPLEN	"16689" ORESPLEN parameter is out of range
0	(0)	X'4132'	0	HZSFMSGABEND_DIRECTMSGBADSPRESPADDR	"16690" SPRESP parameter is null
0	(0)	X'4133'	0	HZSFMSGABEND_DIRECTMSGBADSPRESPLEN	"16691" SPRESPLEN parameter is out of range
0	(0)	X'4134'	0	HZSFMSGABEND_DIRECTMSGBADPROBDADDR	"16692" PROBD parameter is null
0	(0)	X'4135'	0	HZSFMSGABEND_DIRECTMSGBADPROBDLEN	"16693" PROBDLEN parameter is out of range
0	(0)	X'4136'	0	HZSFMSGABEND_DIRECTMSGBADSOURCEADDR	"16694" SOURCE parameter is null
0	(0)	X'4137'	0	HZSFMSGABEND_DIRECTMSGBADSOURCELEN	"16695" SOURCELEN parameter is out of range
0	(0)	X'4138'	0	HZSFMSGABEND_DIRECTMSGBADREFDOCADDR	"16696" REFDOC parameter is null
0	(0)	X'4139'	0	HZSFMSGABEND_DIRECTMSGBADREFDOCLEN	"16697" REFDOCLEN parameter is out of range
0	(0)	X'413A'	0	HZSFMSGABEND_DIRECTMSGBADAUTOMATIONADDR	

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"16698"
AUTOMATION parameter is null					
0	(0)	X'413B'	0	HZSFMSGABEND_DIRECTMSGBADAUTOMATIONLEN	"16699"
AUTOMATIONLEN parameter is out of range					
0	(0)	X'413C'	0	HZSFMSGABEND_DIRECTMSGBADIDCHAR	"16700"
ID contains invalid characters, such as ' ' (blank), x44 (required blank), x00 (nul)					
0	(0)	X'4140'	0	HZSFMSGABEND_BADDOMREQUEST	"16704"
REQUEST=DOM is not allowed for DOM(SYSTEM) check @UT02A					
0	(0)	X'4141'	0	HZSFMSGABEND_BADDOMSTATE	"16705"
REQUEST=DOM is not allowed after first check exception in a check iteration. @UT02A					
0	(0)	X'4150'	0	HZSFMSGABEND_NODYNSEVALLOWED	"16720"
Non-SYSTEM SEVERITY or SEVERITYVAL not allowed for an AllowDynSev(NO) check. @UT04A					
0	(0)	X'4151'	0	HZSFMSGABEND_BADDYNSEVERITY	"16721"
Bad 'sev' in SEVERITY(sev). @UT04A					
0	(0)	X'4152'	0	HZSFMSGABEND_BADDYNSEVERITYVALUE	"16722"
Bad 'val' in SEVERITYVAL(val). @UT04A					
End of HZSFMSG Abend Reason code definitions					
0	(0)	BITSTRING	0	HZSQUERYRSNCODEMASK	"X'0000FFFF'" Use this mask to isolate the non component-diagnostic portion of the reason code.
HZSQUERY Return and Reason Code definitions					
	....			HZSQUERYRC_OK	"X'00000000'" Meaning: Requested information returned Action: None required
	.... .1..			HZSQUERYRC_WARN	"X'00000004'" Meaning: Warning Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSQUERYRSN_NOTALLDATARETURNED	"X'00000401'" Meaning: Not all data was returned because the answer area is not big enough. Answer area field HZSQUAAHTLEN /HZSQUAAH64TLEN indicates how much space is currently required. Action: Allocate a larger area and request the function again.

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		HZSQUERYRC_INVPARM	"X'00000008'" Meaning: HZSQUERY request specifies incorrect parameters. Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSQUERYRSN_NOTAUTHORIZED	"X'00000801'" Meaning: Caller is not authorized. For INSTANCE=LOGSTREAM, the first eight bytes of the DIAG area in the header (HZSQUAAHDIAG or HZSQUAAH64DIAG) contain the four-byte return code and four-byte reason code from the IXGCONN service. Action: Avoid calling HZSQUERY when not authorized
0	(0)	BITSTRING	0	HZSQUERYRSN_BADPARMLIST	"X'00000818'" Meaning: Error accessing parameter list. Action: Make sure that the provided parameter list is valid.
0	(0)	BITSTRING	0	HZSQUERYRSN_BADPARMLISTVERSION	"X'00000838'" Meaning: The specified version of the macro is not compatible with the current version of IBM Health Checker for z/OS. Action: Avoid requesting parameters that are not supported by this version of IBM Health Checker for z/OS.
0	(0)	BITSTRING	0	HZSQUERYRSN_SRBMODE	"X'00000843'" Meaning: SRB mode. Action: Avoid issuing HZSQUERY in SRB mode.
0	(0)	BITSTRING	0	HZSQUERYRSN_NOTENABLED	"X'00000844'" Meaning: Not Enabled. Action: Avoid using HZSQUERY when not enabled.
0	(0)	BITSTRING	0	HZSQUERYRSN_LOCKED	"X'00000845'" Meaning: Locked Action: Avoid using HZSQUERY when a lock is held.
0	(0)	BITSTRING	0	HZSQUERYRSN_FRR	"X'00000846'" Meaning: The caller had an EUT FRR established. Action: Avoid using HZSQUERY when an EUT FRR is established.
0	(0)	BITSTRING	0	HZSQUERYRSN_BADPARMLISTALET	"X'00000847'" Meaning: Bad parameter list ALET. Action: Make sure that the ALET associated with the parameter list is valid. The access register might not have been set up correctly.

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	HZSQUERYRSN_BADANSAREAALET	"X'00000848'" Meaning: Bad answer area ALET. Action: Make sure that the ALET associated with the answer area is valid. The access register might not have been set up correctly.
0	(0)	BITSTRING	0	HZSQUERYRSN_BADANSAREA	"X'00000849'" Meaning: Error accessing answer area. Action: Make sure that the provided answer area is valid.
0	(0)	BITSTRING	0	HZSQUERYRSN_BADANSLEN	"X'0000084A'" Meaning: AnsLen is less than size of the header area. Action: Provide a larger answer area (as indicated by the ANSLEN keyword).
0	(0)	BITSTRING	0	HZSQUERYRSN_BADPARMLISTVALUE	"X'0000084B'" Meaning: A parameter list field contains an unsupported value. Action: Check for possible storage overlay
0	(0)	BITSTRING	0	HZSQUERYRSN_BADCATEGORYALET	"X'0000084C'" Meaning: Bad category ALET. Action: Make sure that the ALET associated with the category area is valid. The access register might not have been set up correctly.
0	(0)	BITSTRING	0	HZSQUERYRSN_BADCATEGORY	"X'0000084D'" Meaning: Error accessing category area. Action: Make sure that the provided category area is valid.
0	(0)	BITSTRING	0	HZSQUERYRSN_MSGTOKENNOTVALID	"X'0000084E'" Meaning: MSGTOKEN is not valid. Action: Make sure that the MSGTOKEN specifies a value returned by HZSQUERY. As that might represent a check that no longer exists, it might be necessary to re-issue HZSQUERY to get a new MSGTOKEN.
0	(0)	BITSTRING	0	HZSQUERYRSN_XM	"X'0000085C'" Meaning: For INSTANCE=LOGSTREAM, a cross-memory environment exists. Action: Avoid using HZSQUERY INSTANCE=LOGSTREAM when the primary address space does not match the home address space.
0	(0)	BITSTRING	0	HZSQUERYRSN_BADQUAAC1HDRALET	"X'0000085D'" Meaning: Bad QUAAC1HDR ALET. Action: Make sure that the ALET associated with the QUAAC1HDR area is valid. The access register might not have been set up correctly.

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	HZSQUERYRSN_BADQUAAC1HDR	"X'0000085E'" Meaning: Error accessing QUAAC1HDR area. Action: Make sure that the provided QUAAC1HDR area is valid.
		.... 11..		HZSQUERYRC_ENVERROR	"X'0000000C'" Meaning: Environmental Error Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSQUERYRSN_IBMHCNOTACTIVE	"X'00000C01'" Meaning: IBM Health Checker for z/OS is not active Action: Re-issue the request when the service is available
0	(0)	BITSTRING	0	HZSQUERYRSN_BADIXGBROWSEEND	"X'00000C04'" Meaning: Service IXGBRWSE returned a non-zero return code. Action: Examine the IXGBRWSE reason code provided in the top two bytes of this HZSQUERY reason code.
0	(0)	BITSTRING	0	HZSQUERYRSN_BADIXGDISCONNECT	"X'00000C06'" Meaning: Service IXGCONN returned a non-zero return code. Action: Examine the IXGCONN reason code provided in the top two bytes of this HZSQUERY reason code.
0	(0)	BITSTRING	0	HZSQUERYRSN_LOGSTREAMRECORDNOTFOUND	"X'00000C21'" Meaning: The requested record within the logstream specified within the QUAAC1HDR area could not be found. The requested data could not be retrieved. The first eight bytes of the DIAG area in the header (HZSQUAAHDIAG or HZSQUAAH64DIAG) contain the four-byte return code and four-byte reason code from the IXGBRWSE service. Action: Avoid calling HZSQUERY when the BlockID returned within the QUAAC1HDR area is 0. If the BlockID was not 0, notify the system programmer.

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	HZSQUERYRSN_LOGSTREAMGAP	"X'00000C22'" Meaning: A gap was detected in the logstream specified within the QUAAC1HDR area. The requested data could not be retrieved. The first eight bytes of the DIAG area in the header (HZSQUAAHDIAG or HZSQUAAH64DIAG) contain the four-byte return code and four-byte reason code from the IXGBRWSE service. Action: Notify the system programmer.
0	(0)	BITSTRING	0	HZSQUERYRSN_LOGSTREAMLOSSOFDATA	"X'00000C23'" Meaning: A loss of data was detected in the logstream specified within the QUAAC1HDR area. The system received reason code IxgRsnCodeWarningLossOfData when attempting to browse the logstream. The requested data could not be retrieved. The first eight bytes of the DIAG area in the header (HZSQUAAHDIAG or HZSQUAAH64DIAG) contain the four-byte return code and four-byte reason code from the IXGBRWSE service. Action: Notify the system programmer.
0	(0)	BITSTRING	0	HZSQUERYRSN_LOGSTREAMERROR	"X'00000C24'" Meaning: The system received an unexpected return / reason code from a system logger function. The requested data could not be retrieved. The first eight bytes of the DIAG area in the header (HZSQUAAHDIAG or HZSQUAAH64DIAG) contain the four-byte return code and four-byte reason code from the IXGBRWSE service. Action: Notify the system programmer.
0	(0)	BITSTRING	0	HZSQUERYRSN_LOGSTREAMBADDATA	"X'00000C25'" Meaning: The data retrieved from the logstream specified within the QUAAC1HDR area was not valid. The first eight bytes of the DIAG area in the header (HZSQUAAHDIAG or HZSQUAAH64DIAG) contain the four-byte return code and four-byte reason code from the IXGBRWSE service. Action: Notify the system programmer.
0	(0)	BITSTRING	0	HZSQUERYRSN_STORAGENOTAVAILABLE	

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000C26'" Meaning: The system could not obtain working storage needed to process the request. Action: Try re-running the job with a larger region size.
0	(0)	BITSTRING	0	HZSQUERYRSN_BADLOGSTREAM	"X'00000C27'" Meaning: The system could not connect to the logstream specified within the QUAAC1HDR area. The first eight bytes of the DIAG area in the header (HZSQUAAHDIAG or HZSQUAAH64DIAG) contain the four-byte return code and four-byte reason code from the IXGCONN service. Action: Make sure that the area has been properly initialized and that the logstream data set is accessible. Make sure that the system logger is active.
		...1		HZSQUERYRC_COMPERROR	"X'00000010'" Meaning: Component Error Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSQUERYRSN_INTERROR	"X'00001001'" Meaning: Unexpected internal error Action: Report the problem to the system programmer
End of HZSQUERY Return and Reason Code definitions					
0	(0)	BITSTRING	0	HZSCPARSRSNCODEMASK	"X'0000FFFF'" Use this mask to isolate the non component-diagnostic portion of the reason code.
HZSCPARS Return and Reason Code definitions					
		....		HZSCPARSRC_OK	"X'00000000'" Meaning: Requested information returned Action: None required
		.... .1..		HZSCPARSRC_WARN	"X'00000004'" Meaning: Warning Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSCPARSRSN_NOTLOCATED	"X'00000401'" Meaning: For the CHECKPARM request, the parameter was not found. Action: None required.
0	(0)	BITSTRING	0	HZSCPARSRSN_NOPARMS	"X'00000402'" Meaning: For the PARSE request, the input parameter length was 0. Action: None required.
		.... 1...		HZSCPARSRC_INVPARM	"X'00000008'" Meaning: HZSCPARS request specifies incorrect parameters. Action: Refer to action under the individual reason code.

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	HZSCPARSRSN_BADPARMLEN	"X'00000801'" Meaning: The parameter length exceeded the maximum of 4096. Action: Specify a valid parameter length.
		.... 11..		HZSCPARSRC_ENVERROR	"X'0000000C'" Meaning: Environmental Error Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSCPARSRSN_SYNTAXERROR	"X'00000C01'" Meaning: A syntax error was detected. A message was issued about the problem. Action: Use HZSFMSG REQUEST=STOP,REASON=BADPARM to indicate that the check cannot proceed because of a parameter error.
End of HZSCPARS Return and Reason Code definitions					
0	(0)	BITSTRING	0	HZSPREADRSNCODEMASK	"X'0000FFFF'" Use this mask to isolate the non component-diagnostic portion of the reason code.
HZSPREAD Return and Reason Code definitions					
		....		HZSPREADRC_OK	"X'00000000'" Meaning: The request was successfully processed. Action: None required
		.... 1...		HZSPREADRC_INVPARM	"X'00000008'" Meaning: HZSPREAD request specifies incorrect parameters. Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSPREADRSN_NOTAUTHORIZED	"X'00000801'" Meaning: Caller is not authorized to access persistent data for this check Action: Avoid calling HZSPREAD to access data for a check when not authorized.
0	(0)	BITSTRING	0	HZSPREADRSN_BADENV	"X'00000808'" Meaning: HZSPREAD is supported only when called within the HZS address space. Action: Invoke HZSPREAD only within the HZS address space.
0	(0)	BITSTRING	0	HZSPREADRSN_BADPARMLIST	"X'00000818'" Meaning: Error accessing parameter list. Action: Make sure that the provided parameter list is valid.
0	(0)	BITSTRING	0	HZSPREADRSN_NOMATCH	"X'0000082D'" Meaning: No persistent data records exist for this check. Action: Make sure that you requested the proper information.
0	(0)	BITSTRING	0	HZSPREADRSN_DATADOESNOTEXIST	

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000830'" Meaning: The startbyte requested for the specified instance is not available. Action: Make sure that you requested the proper information.
0	(0)	BITSTRING	0	HZSPREADRSN_SRBMODE	"X'00000843'" Meaning: SRB mode. Action: Avoid issuing HZSPREAD in SRB mode.
0	(0)	BITSTRING	0	HZSPREADRSN_NOTENABLED	"X'00000844'" Meaning: Not Enabled. Action: Avoid using HZSPREAD when not enabled.
0	(0)	BITSTRING	0	HZSPREADRSN_LOCKED	"X'00000845'" Meaning: Locked Action: Avoid using HZSPREAD when a lock is held.
0	(0)	BITSTRING	0	HZSPREADRSN_FRR	"X'00000846'" Meaning: The caller had an EUT FRR established. Action: Avoid using HZSPREAD when an EUT FRR is established.
0	(0)	BITSTRING	0	HZSPREADRSN_BADPARMLISTALET	"X'00000847'" Meaning: Bad parameter list ALET. Action: Make sure that the ALET associated with the parameter list is valid. The access register might not have been set up correctly.
0	(0)	BITSTRING	0	HZSPREADRSN_BADBUFFERALET	"X'00000848'" Meaning: Bad answer area ALET. Action: Make sure that the ALET associated with the buffer is valid. The access register might not have been set up correctly.
0	(0)	BITSTRING	0	HZSPREADRSN_BADBUFFER	"X'00000849'" Meaning: Error accessing buffer Action: Make sure that the provided buffer is valid.
0	(0)	BITSTRING	0	HZSPREADRSN_BADHANDLE	"X'00000858'" Meaning: The handle provided with the HANDLE parameter is not valid. Action: Specify the handle that was returned by the HZSADDCK macro if this is a REMOTE=YES REXX=NO check.
0	(0)	BITSTRING	0	HZSPREADRSN_WRONGREMOTEFUNCTION	"X'0000085A'" Meaning: The check routine is not currently processing either the INITRUN or the RUN remote function. Action: Avoid invoking HZSPREAD for a remote check when not within the INITRUN or RUN function.
0	(0)	BITSTRING	0	HZSPREADRSN_BADREMOTEENVIRONMENT	

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'0000085B'" Meaning: HZSPREAD was invoked from a task other than the one that issued HZSCHECK REQUEST=OPSTART. Action: Avoid invoking HZSPREAD from an incorrect task.
0	(0)	BITSTRING	0	HZSPREADRSN_WRONGFUNCTION	"X'00000861'" Meaning: The check routine is not currently processing either the INIT, CHECK, or CLEANUP function. Action: Avoid invoking HZSPREAD for a local check when not within the INIT or CHECK function.
		...1		HZSPREADRC_COMPERROR	"X'00000010'" Meaning: Component Error Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSPREADRSN_INTERROR	"X'00001001'" Meaning: Unexpected internal error Action: Report the problem to the system programmer
End of HZSPREAD Return and Reason Code definitions					
0	(0)	BITSTRING	0	HZSPWRITRSNCODEMASK	"X'0000FFFF'" Use this mask to isolate the non component-diagnostic portion of the reason code.
HZSPWRIT Return and Reason Code definitions					
		....		HZSPWRITRC_OK	"X'00000000'" Meaning: The request was successfully processed. Action: None required
		.... 1...		HZSPWRITRC_INVPARM	"X'00000008'" Meaning: HZSPWRIT request specified incorrect parameters. Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSPWRITRSN_NOTAUTHORIZED	"X'00000801'" Meaning: Caller is not authorized to write persistent data for this check Action: Avoid calling HZSPWRIT to write data when not authorized.
0	(0)	BITSTRING	0	HZSPWRITRSN_BADENV	"X'00000808'" Meaning: HZSPWRIT is supported only when called within the HZS address space. Action: Invoke HZSPWRIT only within the HZS address space.
0	(0)	BITSTRING	0	HZSPWRITRSN_BADPARMLIST	"X'00000818'" Meaning: Error accessing parameter list. Action: Make sure that the provided parameter list is valid.

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	HZSPWRITRSN_SRBMODE	"X'00000843'" Meaning: SRB mode. Action: Avoid issuing HZSPWRIT in SRB mode.
0	(0)	BITSTRING	0	HZSPWRITRSN_NOTENABLED	"X'00000844'" Meaning: Not Enabled. Action: Avoid using HZSPWRIT when not enabled.
0	(0)	BITSTRING	0	HZSPWRITRSN_LOCKED	"X'00000845'" Meaning: Locked Action: Avoid using HZSPWRIT when a lock is held.
0	(0)	BITSTRING	0	HZSPWRITRSN_FRR	"X'00000846'" Meaning: The caller had an EUT FRR established. Action: Avoid using HZSPWRIT when an EUT FRR is established.
0	(0)	BITSTRING	0	HZSPWRITRSN_BADPARMLISTALET	"X'00000847'" Meaning: Bad parameter list ALET. Action: Make sure that the ALET associated with the parameter list is valid. The access register might not have been set up correctly.
0	(0)	BITSTRING	0	HZSPWRITRSN_BADBUFFERALET	"X'00000848'" Meaning: Bad buffer ALET. Action: Make sure that the ALET associated with the buffer is valid. The access register might not have been set up correctly.
0	(0)	BITSTRING	0	HZSPWRITRSN_BADBUFFER	"X'00000849'" Meaning: Error accessing buffer Action: Make sure that the provided buffer is valid.
0	(0)	BITSTRING	0	HZSPWRITRSN_BADHANDLE	"X'00000858'" Meaning: The handle provided with the HANDLE parameter is not valid. Action: Specify the handle that was returned by the HZSADDCK macro if this is a REMOTE=YES REXX=NO check.
0	(0)	BITSTRING	0	HZSPWRITRSN_WRONGREMOTEFUNCTION	"X'0000085A'" Meaning: The check routine is not currently processing either the INITRUN or the RUN remote function. Action: Avoid invoking HZSPWRIT for a remote check when not within the INITRUN or RUN function.
0	(0)	BITSTRING	0	HZSPWRITRSN_BADREMOTEENVIRONMENT	"X'0000085B'" Meaning: HZSPWRIT was invoked from a task other than the one that issued HZSCHECK REQUEST=OPSTART. Action: Avoid invoking HZSPWRIT from an incorrect task.

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	HZSPWRITRSN_WRONGFUNCTION	"X'00000861'" Meaning: The check routine is not currently processing either the INIT, CHECK, or CLEANUP function. Action: Avoid invoking HZSPWRIT for a local check when not within the INIT or CHECK function.
		.... 11..		HZSPWRITRC_ENVERROR	"X'0000000C'" Meaning: Environmental Error Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSPWRITRSN_DATACORRUPTED	"X'00000C15'" Meaning: The persistent data being managed by the system for this check has been overlaid. It will not be written to the HZSPDATA data set. Action: Report the problem to the system programmer
		...1		HZSPWRITRC_COMPERROR	"X'00000010'" Meaning: Component Error Action: Refer to action under the individual reason code.
0	(0)	BITSTRING	0	HZSPWRITRSN_INTERROR	"X'00001001'" Meaning: Unexpected internal error Action: Report the problem to the system programmer
End of HZSPWRIT Return and Reason Code definitions					
0	(0)	BITSTRING	0	HZSLPDWRRSN_RANGE	"X'00000870'"
0	(0)	BITSTRING	0	HZSLPDRDRSN_RANGE	"X'00000880'"
ENF equates: do not use. See HZSZENF. HZS_Enf067_Available is obsolete and should not be used. You want HZS_Enf067_BitquaL_Available in HZSZENF. HZS_Enf067_NotAvailable is obsolete and should not be used. You want HZS_Enf067_BitquaL_NotAvailable in HZSZENF. Function code (via the release code parameter of IEAVPSE) for a remote (not REXX) check. The equate is the first byte of the 3-byte release code. The first byte of the release code will never exceed x'BF' If your application needs to release the paused unit of work, it should use a code in the range x'C00000' to x'FFFFFF' to avoid conflicting with future HZS support.					
0	(0)	X'1'	0	HZS_REMOTE_FUNCTION_INITRUN	"1" This is the first call. PQECHKWORK is zeroes. Initialize and run the check. Then wait for the next operation.
0	(0)	X'2'	0	HZS_REMOTE_FUNCTION_RUN	"2" This is post-initialization. PQECHKWORK contains its value from the previous call. Run the check. Then wait for the next operation.
0	(0)	X'3'	0	HZS_REMOTE_FUNCTION_DEACTIVATE	

Table 992. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"3" The check has been deactivated. Clean up. Wait for the next operation.
0	(0)	X'4'	0	HZS_REMOTE_FUNCTION_DELETE	"4" The check has been deleted. Clean up. Return the pause element. Do not wait for the next operation.
0	(0)	X'5'	0	HZS_REMOTE_FUNCTION_DELETETERM	"5" IBM Health checker for z/OS is terminating, so the check has been deleted. Clean up. Return the pause element. Do not wait for the next operation. If authorized, listen for the ENF 067 even indicating that IBM Health checker for z/OS is once again available and upon getting that indication, do the "add" processing for the check
0	(0)	X'6'	0	HZS_REMOTE_FUNCTION_DELETEREFRESH	"6" A refresh has been requested for the check. Clean up and then re-add the check. You can continue to use the same pause element. Wait for the next operation.
0	(0)	X'7'	0	HZS_REMOTE_FUNCTION_RESTART	"7" HC has terminated and restarted. Clean up and then re-add the check. You can continue to use the same pause element. Wait for the next operation.

Table 993. Cross Reference for HZSZCONS

Name	Offset	Hex Tag
HFMSGABEND_BADMSGTBLOUTLEN	0	1017
HZS_REMOTE_FUNCTION_DEACTIVATE	0	3
HZS_REMOTE_FUNCTION_DELETE	0	4
HZS_REMOTE_FUNCTION_DELETEREFRESH	0	6
HZS_REMOTE_FUNCTION_DELETETERM	0	5
HZS_REMOTE_FUNCTION_INITRUN	0	1
HZS_REMOTE_FUNCTION_RESTART	0	7
HZS_REMOTE_FUNCTION_RUN	0	2
HZSABEND_DELETEFORCE	0	4FFF
HZSABEND_SUBTASKS	0	4FFE
HZSADDCKRC_COMPERROR	0	10
HZSADDCKRC_ENVERROR	0	C
HZSADDCKRC_INVPARM	0	8
HZSADDCKRC_OK	0	0
HZSADDCKRC_WARN	0	4
HZSADDCKRSN_BADCHECKNAME	0	809

Table 993. Cross Reference for HZSZCONS (continued)

Name	Offset	Hex Tag
HZSADDCKRSN_BADCHECKROUTINE	0	804
HZSADDCKRSN_BADCHECKROUTINE64	0	80F
HZSADDCKRSN_BADDATE	0	80B
HZSADDCKRSN_BADENV	0	808
HZSADDCKRSN_BADEXCEPTIONINTERVAL	0	862
HZSADDCKRSN_BADEXITROUTINE	0	80D
HZSADDCKRSN_BADMESSAGETABLE	0	805
HZSADDCKRSN_BADOWNERNAME	0	80A
HZSADDCKRSN_BADPARMLIST	0	818
HZSADDCKRSN_BADPARMLISTVERSION	0	838
HZSADDCKRSN_BADPARMSAREA	0	841
HZSADDCKRSN_BADPARMSLEN	0	84F
HZSADDCKRSN_BADPETOKEN	0	863
HZSADDCKRSN_BADPETOKENAUTH	0	868
HZSADDCKRSN_BADPETOKENHOME	0	86A
HZSADDCKRSN_BADPETOKENSERVICE	0	106D
HZSADDCKRSN_BADPETOKENSTATE	0	86B
HZSADDCKRSN_BADPETOKENVALUE	0	86C
HZSADDCKRSN_BADREASONAREA	0	842
HZSADDCKRSN_BADREASONLEN	0	80C
HZSADDCKRSN_BADTIME	0	80E
HZSADDCKRSN_CHECKIDENTICAL	0	414
HZSADDCKRSN_CHECKINACTIVE	0	402
HZSADDCKRSN_CHECKOLD	0	801
HZSADDCKRSN_CHECKREPLACED	0	401
HZSADDCKRSN_IBMHCNOTACTIVE	0	C01
HZSADDCKRSN_INTERROR	0	1001
HZSADDCKRSN_NOTAUTHORIZED	0	859
HZSADDCKRSNCODEMASK	0	FFFF
HZSCHECKRC_COMPERROR	0	10
HZSCHECKRC_ENVERROR	0	C
HZSCHECKRC_INVPARM	0	8
HZSCHECKRC_OK	0	0
HZSCHECKRC_WARN	0	4
HZSCHECKRSN_BADADDREPCATALET	0	853
HZSCHECKRSN_BADADDREPCATAREA	0	829
HZSCHECKRSN_BADCATEGORYALET	0	84C
HZSCHECKRSN_BADCATEGORYAREA	0	84D
HZSCHECKRSN_BADCOMMANDENV	0	C02
HZSCHECKRSN_BADHANDLE	0	858
HZSCHECKRSN_BADNUMADDREPREMCAT	0	856
HZSCHECKRSN_BADNUMCAT	0	855
HZSCHECKRSN_BADPARMLIST	0	818
HZSCHECKRSN_BADPARMLISTALET	0	847
HZSCHECKRSN_BADPARMLISTVALUE	0	84B
HZSCHECKRSN_BADPARMLISTVERSION	0	838
HZSCHECKRSN_BADPETOKEN	0	863
HZSCHECKRSN_BADPETOKENHOME	0	86A
HZSCHECKRSN_BADPETOKENSERVICE	0	106D

Table 993. Cross Reference for HZSZCONS (continued)

Name	Offset	Hex Tag
HZSCHECKRSN_BADPETOKENSTATE	0	86B
HZSCHECKRSN_BADPETOKENVALUE	0	86C
HZSCHECKRSN_BADPQEALET	0	865
HZSCHECKRSN_BADPQEAREA	0	864
HZSCHECKRSN_BADPQECHKWORKALET	0	867
HZSCHECKRSN_BADPQECHKWORKAREA	0	866
HZSCHECKRSN_BADREMCATALET	0	854
HZSCHECKRSN_BADREMCATAREA	0	82A
HZSCHECKRSN_BADREMOTEENV	0	C03
HZSCHECKRSN_COMMANDQUEUED	0	400
HZSCHECKRSN_IBMHCNOTACTIVE	0	C01
HZSCHECKRSN_INTERROR	0	1001
HZSCHECKRSN_NOTAUTHORIZED	0	801
HZSCHECKRSNCODEMASK	0	FFFF
HZSCPARSRC_ENVERROR	0	C
HZSCPARSRC_INVPARM	0	8
HZSCPARSRC_OK	0	0
HZSCPARSRC_WARN	0	4
HZSCPARSRSN_BADPARMLEN	0	801
HZSCPARSRSN_NOPARMS	0	402
HZSCPARSRSN_NOTLOCATED	0	401
HZSCPARSRSN_SYNTAXERROR	0	C01
HZSCPARSRSNCODEMASK	0	FFFF
HZSFMSGABEND_BADABENDRESULT	0	4115
HZSFMSGABEND_BADDOMREQUEST	0	4140
HZSFMSGABEND_BADDOMSTATE	0	4141
HZSFMSGABEND_BADDYNSEVERITY	0	4151
HZSFMSGABEND_BADDYNSEVERITYVALUE	0	4152
HZSFMSGABEND_BADENV	0	4112
HZSFMSGABEND_BADHANDLE	0	4113
HZSFMSGABEND_BADMGBINSERTADDRESS	0	410D
HZSFMSGABEND_BADMGBINSERTCOUNT	0	4109
HZSFMSGABEND_BADMGBINSERTLENGTH	0	410E
HZSFMSGABEND_BADMGBINSERTNOTFOUND	0	410B
HZSFMSGABEND_BADMGBINSERTNOTUSED	0	410C
HZSFMSGABEND_BADMGBINSERTSEQUENCE	0	410A
HZSFMSGABEND_BADMGBSTORAGE	0	4106
HZSFMSGABEND_BADMGBVALUE	0	4107
HZSFMSGABEND_BADMSGTBLOUTLEN	0	1017
HZSFMSGABEND_BADMSGTBLSEGMENT	0	1015
HZSFMSGABEND_BADMTS_FIDFORMATMSG	0	101E
HZSFMSGABEND_BADMTS_FIDINSERTVAR	0	101F
HZSFMSGABEND_BADMTS_FIDMINLEN	0	101A
HZSFMSGABEND_BADMTS_MAXOUT	0	101C
HZSFMSGABEND_BADMTS_RULELEVEL	0	101D
HZSFMSGABEND_BADMTS_SYMBOL	0	1020
HZSFMSGABEND_BADMTS_VARLEN	0	101B
HZSFMSGABEND_BADPARMLISTSTORAGE	0	410F
HZSFMSGABEND_BADPARMLISTVERSION	0	4111

Table 993. Cross Reference for HZSZCONS (continued)

Name	Offset	Hex Tag
HZSFMSGABEND_BADREASON	0	4120
HZSFMSGABEND_BADREMOTEENV	0	4114
HZSFMSGABEND_BADREMOTEMSGTABLE	0	4117
HZSFMSGABEND_BADREQUEST	0	4119
HZSFMSGABEND_BLDVLBADLINESTART	0	1127
HZSFMSGABEND_BLDVLBADSEGLEN	0	1126
HZSFMSGABEND_BLDVLBADWRAP	0	1128
HZSFMSGABEND_DIRECTMSGBADAUTOMATIONADDR	0	413A
HZSFMSGABEND_DIRECTMSGBADAUTOMATIONLEN	0	413B
HZSFMSGABEND_DIRECTMSGBADEXPLADDR	0	412B
HZSFMSGABEND_DIRECTMSGBADEXPLLEN	0	412C
HZSFMSGABEND_DIRECTMSGBADIDADDR	0	4124
HZSFMSGABEND_DIRECTMSGBADIDCHAR	0	413C
HZSFMSGABEND_DIRECTMSGBADIDLEN	0	4122
HZSFMSGABEND_DIRECTMSGBADORESPADDR	0	4130
HZSFMSGABEND_DIRECTMSGBADORESPLEN	0	4131
HZSFMSGABEND_DIRECTMSGBADPROBDADDR	0	4134
HZSFMSGABEND_DIRECTMSGBADPROBDLEN	0	4135
HZSFMSGABEND_DIRECTMSGBADREFDOCADDR	0	4138
HZSFMSGABEND_DIRECTMSGBADREFDOCLEN	0	4139
HZSFMSGABEND_DIRECTMSGBADSOURCEADDR	0	4136
HZSFMSGABEND_DIRECTMSGBADSOURCELEN	0	4137
HZSFMSGABEND_DIRECTMSGBADSPRESPADDR	0	4132
HZSFMSGABEND_DIRECTMSGBADSPRESPLEN	0	4133
HZSFMSGABEND_DIRECTMSGBADSYSACTADDR	0	412E
HZSFMSGABEND_DIRECTMSGBADSYSACTLEN	0	412F
HZSFMSGABEND_DIRECTMSGBADTEXTADDR	0	4125
HZSFMSGABEND_DIRECTMSGBADTEXTLEN	0	4123
HZSFMSGABEND_DMMTSBADSET	0	1130
HZSFMSGABEND_EXFRAGBADMAX	0	1129
HZSFMSGABEND_EXFRAGBADPOS	0	112A
HZSFMSGABEND_FIELDSIZETOOBIG	0	4116
HZSFMSGABEND_HCKLOG_NOTVALID	0	1019
HZSFMSGABEND_MAXLENTOOBIG	0	4016
HZSFMSGABEND_MGBNOTFOUND	0	4110
HZSFMSGABEND_MSGBLOCKTOOSMALL	0	112D
HZSFMSGABEND_MSGIDNOTVALID	0	4108
HZSFMSGABEND_MSGTBLERROR	0	1013
HZSFMSGABEND_MSGTBLMISSINGNEWLINE	0	1018
HZSFMSGABEND_NODYNSEVALLOWED	0	4150
HZSFMSGABEND_PQE_NOTVALID	0	1014
HZSFMSGABEND_UBSBADGET	0	1138
HZSFMSGABEND_UBSBADPEEK	0	1139
HZSFMSGABEND_UBSBADSKIP	0	113A
HZSFMSGABEND_WRONGREMOTEFUNCTION	0	4118
HZSFMSGRC_COMPERROR	0	10
HZSFMSGRC_ENVERROR	0	C
HZSFMSGRC_INVPARM	0	8
HZSFMSGRC_OK	0	0

Table 993. Cross Reference for HZSZCONS (continued)

Name	Offset	Hex Tag
HZSFMSGRC_WARN	0	4
HZSFMSGRSN_BADMSGTBLSEGMENT	0	1015
HZSFMSGRSN_DIRECTMSGUSEAMP	0	41A
HZSFMSGRSN_ERRORLIMITEXCEEDED	0	837
HZSFMSGRSN_HCKLOG_NOTVALID	0	1019
HZSFMSGRSN_IBMHCNOTACTIVE	0	C01
HZSFMSGRSN_INTERROR	0	1001
HZSFMSGRSN_MSGTBLERROR	0	1013
HZSFMSGRSN_PQE_NOTVALID	0	1014
HZSFMSGRSNCODEMASK	0	FFFF
HZSLPDRDRSN_RANGE	0	880
HZSLPDWRRSN_RANGE	0	870
HZSPREADRC_COMPERROR	0	10
HZSPREADRC_INVPARM	0	8
HZSPREADRC_OK	0	0
HZSPREADRSN_BADBUFFER	0	849
HZSPREADRSN_BADBUFFERALET	0	848
HZSPREADRSN_BADENV	0	808
HZSPREADRSN_BADHANDLE	0	858
HZSPREADRSN_BADPARMLIST	0	818
HZSPREADRSN_BADPARMLISTALET	0	847
HZSPREADRSN_BADREMOTEENVIRONMENT	0	85B
HZSPREADRSN_DATADOESNOTEXIST	0	830
HZSPREADRSN_FRR	0	846
HZSPREADRSN_INTERROR	0	1001
HZSPREADRSN_LOCKED	0	845
HZSPREADRSN_NOMATCH	0	82D
HZSPREADRSN_NOTAUTHORIZED	0	801
HZSPREADRSN_NOTENABLED	0	844
HZSPREADRSN_SRBMODE	0	843
HZSPREADRSN_WRONGFUNCTION	0	861
HZSPREADRSN_WRONGREMOTEFUNCTION	0	85A
HZSPREADRSNCODEMASK	0	FFFF
HZSPWRITRC_COMPERROR	0	10
HZSPWRITRC_ENVERROR	0	C
HZSPWRITRC_INVPARM	0	8
HZSPWRITRC_OK	0	0
HZSPWRITRSN_BADBUFFER	0	849
HZSPWRITRSN_BADBUFFERALET	0	848
HZSPWRITRSN_BADENV	0	808
HZSPWRITRSN_BADHANDLE	0	858
HZSPWRITRSN_BADPARMLIST	0	818
HZSPWRITRSN_BADPARMLISTALET	0	847
HZSPWRITRSN_BADREMOTEENVIRONMENT	0	85B
HZSPWRITRSN_DATACORRUPTED	0	C15
HZSPWRITRSN_FRR	0	846
HZSPWRITRSN_INTERROR	0	1001
HZSPWRITRSN_LOCKED	0	845
HZSPWRITRSN_NOTAUTHORIZED	0	801

Table 993. Cross Reference for HZSZCONS (continued)

Name	Offset	Hex Tag
HZSPWRITRSN_NOTENABLED	0	844
HZSPWRITRSN_SRBMODE	0	843
HZSPWRITRSN_WRONGFUNCTION	0	861
HZSPWRITRSN_WRONGREMOTEFUNCTION	0	85A
HZSPWRITRSNCODEMASK	0	FFFF
HZSQUERYRC_COMPERROR	0	10
HZSQUERYRC_ENVERROR	0	C
HZSQUERYRC_INVPARM	0	8
HZSQUERYRC_OK	0	0
HZSQUERYRC_WARN	0	4
HZSQUERYRSN_BADANSAREA	0	849
HZSQUERYRSN_BADANSAREAALET	0	848
HZSQUERYRSN_BADANSLEN	0	84A
HZSQUERYRSN_BADCATEGORY	0	84D
HZSQUERYRSN_BADCATEGORYALET	0	84C
HZSQUERYRSN_BADIXGBROWSEEND	0	C04
HZSQUERYRSN_BADIXGDISCONNECT	0	C06
HZSQUERYRSN_BADLOGSTREAM	0	C27
HZSQUERYRSN_BADPARMLIST	0	818
HZSQUERYRSN_BADPARMLISTALET	0	847
HZSQUERYRSN_BADPARMLISTVALUE	0	84B
HZSQUERYRSN_BADPARMLISTVERSION	0	838
HZSQUERYRSN_BADQUAAC1HDR	0	85E
HZSQUERYRSN_BADQUAAC1HDRALET	0	85D
HZSQUERYRSN_FRR	0	846
HZSQUERYRSN_IBMHCNOTACTIVE	0	C01
HZSQUERYRSN_INTERROR	0	1001
HZSQUERYRSN_LOCKED	0	845
HZSQUERYRSN_LOGSTREAMBADDATA	0	C25
HZSQUERYRSN_LOGSTREAMERROR	0	C24
HZSQUERYRSN_LOGSTREAMGAP	0	C22
HZSQUERYRSN_LOGSTREAMLOSSOFDATA	0	C23
HZSQUERYRSN_LOGSTREAMRECORDNOTFOUND	0	C21
HZSQUERYRSN_MSGTOKENNOTVALID	0	84E
HZSQUERYRSN_NOTALLDATARETURNED	0	401
HZSQUERYRSN_NOTAUTHORIZED	0	801
HZSQUERYRSN_NOTENABLED	0	844
HZSQUERYRSN_SRBMODE	0	843
HZSQUERYRSN_STORAGENOTAVAILABLE	0	C26
HZSQUERYRSN_XM	0	85C
HZSQUERYRSNCODEMASK	0	FFFF
HZSRSNCODEMASK	0	FFFF

Chapter 242. HZSZCPAR Information

HZSZCPAR Programming Interface Information

HZSZCPAR is a programming interface.

HZSZCPAR Heading Information

Common Name:	HC Check Parsing for parameter
Macro ID:	HZSZCPAR
DSECT Name:	CParArea CParKeywordEntry CParKeywordValueEntry CParKeywordInfo CParKeywordFlags CParKeywordData
Owning Component:	IBM Health Checker for z/OS (SCHZS)
Eye-Catcher ID:	CPARArea Offset: 0 Length: 8
Storage Attributes:	Key: caller Residency: caller-provided
Size:	CParArea -- X'0020' bytes CParKeywordEntry -- X'002C' bytes CParKeywordValueEntry -- X'0020' bytes CParKeywordInfo -- X'0020' bytes CParKeywordFlags -- X'0003' bytes CParKeywordData -- X'0008' bytes
Created by:	caller
Pointed to by:	N/A
Serialization:	None.
Function:	Parsing structures HZSCPARS REQUEST=PARSE

HZSZCPAR mapping

Table 994. Structure CPARAREA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPARAREA	
0	(0)	CHARACTER	8	CPARAREAID	'CPARAREA'
8	(8)	SIGNED	4	CPARAREALENGTH	The length of the CparArea plus its subsidiary blocks
12	(C)	BITSTRING	1	CPARAREASUBPOOL	The storage is in the key in which the parse routine is invoked.
13	(D)	BITSTRING	1	CPARAREAFLAGS	
Bit definitions:					
		1...		CPARAREAFORMATPOSITIONAL	"X'80'" No key() or key= was encountered
14	(E)	SIGNED	2	CPARAREANUMKEYWORDS	Number of CParKeywordEntry's
16	(10)	ADDRESS	4	CPARAREAKEYWORDENTRYFIRSTADDR	Address of first CParKeywordEntry. 0 if no entries

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Table 994. Structure CPARAREA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	ADDRESS	4	CPARAREAKEYWORDENTRYLASTADDR	Address of last CParKeywordEntry. 0 if no entries
24	(18)	BITSTRING	1	CPARAREAKEY	The storage key
25	(19)	CHARACTER	7		Reserved
25	(19)	X'D7C1D9'	0	KCPARAREAID_0TO3	"C'CPAR'" This is the first 4-byte segment of an 8-byte constant.
25	(19)	X'D9C5C1'	0	KCPARAREAID_4TO7	"C'AREA'" This is the second 4-byte segment of an 8-byte constant.
25	(19)	X'20'	0	CPARAREA_LEN	"*-CParArea"

Table 995. Structure CPARKEYWORDENTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPARKEYWORDENTRY	
0	(0)	CHARACTER	8	CPARKEYWORDENTRYID	'CPARKEYE'
8	(8)	ADDRESS	4	CPARKEYWORDENTRYNEXTADDR	Address of the next CParKeywordEntry. 0 if no next entry
12	(C)	ADDRESS	4	CPARKEYWORDENTRYPREVADDR	Address of the previous CParKeywordEntry. 0 if no previous entry
16	(10)	CHARACTER	8	CPARKEYWORDENTRYDATA	This area is mapped by DSECT CParKeywordData
24	(18)	SIGNED	4	CPARKEYWORDENTRYNUMVALUES	Number of CParKeywordValueEntry's
28	(1C)	ADDRESS	4	CPARKEYWORDENTRYVALUEFIRSTADDR	Address of first CParKeywordValueEntry. 0 if no entries. 0 is expected when CparAreaFormatPositional is on
32	(20)	ADDRESS	4	CPARKEYWORDENTRYVALUELASTADDR	Address of last CParKeywordValueEntry. 0 if no entries. 0 is expected when CparAreaFormatPositional is on
36	(24)	BITSTRING	1	CPARKEYWORDENTRYFLAGS	
Bit definitions:					
		1...		CPARKEYWORDENTRYPROCESSED	"X'80'" Processed by a Checkparm invocation.
37	(25)	CHARACTER	7		Reserved
37	(25)	X'D7C1D9'	0	KCPARKEYWORDENTRYID_0TO3	"C'CPAR'" This is the first 4-byte segment of an 8-byte constant.
37	(25)	X'C5E8C5'	0	KCPARKEYWORDENTRYID_4TO7	"C'KEYE'" This is the second 4-byte segment of an 8-byte constant.
37	(25)	X'2C'	0	CPARKEYWORDENTRY_LEN	"*-CParKeywordEntry"

Table 996. Structure CPARKEYWORDVALUEENTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPARKEYWORDVALUEENTRY	
0	(0)	CHARACTER	8	CPARKEYWORDVALUEENTRYID	'CPARKEYV'
8	(8)	ADDRESS	4	CPARKEYWORDVALUEENTRYNEXTADDR	Address of next CParKeywordValueEntry. 0 if no next entry
12	(C)	ADDRESS	4	CPARKEYWORDVALUEENTRYPREVADDR	Address of previous CParKeywordValueEntry. 0 if no previous entry
16	(10)	CHARACTER	8	CPARKEYWORDVALUEENTRYDATA	This area is mapped by DSECT CParKeywordData
24	(18)	CHARACTER	8		Reserved
24	(18)	X'D7C1D9'	0	KCPARKEYWORDVALUEENTRYID_0TO3	"C'CPAR'" This is the first 4-byte segment of an 8-byte constant.
24	(18)	X'C5E8E5'	0	KCPARKEYWORDVALUEENTRYID_4TO7	"C'KEYV'" This is the second 4-byte segment of an 8-byte constant.
24	(18)	X'20'	0	CPARKEYWORDVALUEENTRY_LEN	"*-CParKeywordValueEntry"

Table 997. Structure CPARKEYWORDINFO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPARKEYWORDINFO	
0	(0)	CHARACTER	3	CPARKEYWORDINFOFLAGS	This area is mapped by DSECT CParKeywordInfoFlags
3	(3)	CHARACTER	1	CPARKEYWORDINFOSUFFIX	"K", "M", "G", "P", % for CHECKDEC. It is not set for CHECKHEX and CHECKCHAR.
4	(4)	CHARACTER	4		Reserved
8	(8)	CHARACTER	8	CPARKEYWORDINFONOTMULTIPLIED	This is the value without being multiplied by the suffix, for CHECKHEX and CHECKDEC. It is not set for CHECKCHAR.
16	(10)	CHARACTER	8	CPARKEYWORDINFOVALUE	This is the value after being multiplied by the suffix, for CHECKHEX and CHECKDEC. It is not set for CHECKCHAR.
24	(18)	CHARACTER	8		Reserved
24	(18)	X'20'	0	CPARKEYWORDINFO_LEN	"*-CParKeywordInfo"

Table 998. Structure CPARKEYWORDFLAGS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPARKEYWORDFLAGS	
0	(0)	BITSTRING	3	CPARKEYWORDFLAGBITS	
Bit definitions:					

Table 998. Structure CPARKEYWORDFLAGS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CPARKEYWORDFLAGNUMERICWITHSUFFIX	"X'80'" The value is numeric with a Suffix (such as "K") for CHECKDEC. It is not set for CHECKHEX and CHECKCHAR.
		.1..		CPARKEYWORDFLAGNUMERICWITHPERCENT	"X'40'" The value is numeric with a percent suffix for CHECKDEC. It is not set for CHECKHEX and CHECKCHAR.
3	(3)	X'3'	0	CPARKEYWORDFLAGS_LEN	"*-CParKeywordFlags"

Table 999. Structure CPARKEYWORDDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPARKEYWORDDATA	
0	(0)	SIGNED	4	CPARKEYWORDDATALEN	The length of the data
4	(4)	ADDRESS	4	CPARKEYWORDDATAADDR	The address of the data
4	(4)	X'8'	0	CPARKEYWORDDATA_LEN	"*-CParKeywordData"

Table 1000. Cross Reference for HZSZCPAR

Name	Offset	Hex Tag
CPARAREA	0	
CPARAREA_LEN	19	20
CPARAREAFLAGS	D	
CPARAREAFORMATPOSITIONAL	D	80
CPARAREAID	0	
CPARAREAKEY	18	
CPARAREAKEYWORDENTRYFIRSTADDR	10	
CPARAREAKEYWORDENTRYLASTADDR	14	
CPARAREALENGTH	8	
CPARAREANUMKEYWORDS	E	
CPARAREASUBPOOL	C	
CPARKEYWORDDATA	0	
CPARKEYWORDDATA_LEN	4	8
CPARKEYWORDDATAADDR	4	
CPARKEYWORDDATALEN	0	
CPARKEYWORDENTRY	0	
CPARKEYWORDENTRY_LEN	25	2C
CPARKEYWORDENTRYDATA	10	
CPARKEYWORDENTRYFLAGS	24	
CPARKEYWORDENTRYID	0	
CPARKEYWORDENTRYNEXTADDR	8	
CPARKEYWORDENTRYNUMVALUES	18	
CPARKEYWORDENTRYPREVADDR	C	
CPARKEYWORDENTRYPROCESSED	24	80
CPARKEYWORDENTRYVALUEFIRSTADDR	1C	
CPARKEYWORDENTRYVALUELASTADDR	20	

Table 1000. Cross Reference for HZSZCPAR (continued)

Name	Offset	Hex Tag
CPARKEYWORDFLAGBITS	0	
CPARKEYWORDFLAGNUMERICWITHPERCENT	0	40
CPARKEYWORDFLAGNUMERICWITHSUFFIX	0	80
CPARKEYWORDFLAGS	0	
CPARKEYWORDFLAGS_LEN	3	3
CPARKEYWORDINFO	0	
CPARKEYWORDINFO_LEN	18	20
CPARKEYWORDINFOFLAGS	0	
CPARKEYWORDINFONOTMULTIPLIED	8	
CPARKEYWORDINFOSUFFIX	3	
CPARKEYWORDINFOVALUE	10	
CPARKEYWORDVALUEENTRY	0	
CPARKEYWORDVALUEENTRY_LEN	18	20
CPARKEYWORDVALUEENTRYDATA	10	
CPARKEYWORDVALUEENTRYID	0	
CPARKEYWORDVALUEENTRYNEXTADDR	8	
CPARKEYWORDVALUEENTRYPREVADDR	C	
KCPARAREAID_0TO3	19	D7C1D9
KCPARAREAID_4TO7	19	D9C5C1
KCPARKEYWORDENTRYID_0TO3	25	D7C1D9
KCPARKEYWORDENTRYID_4TO7	25	C5E8C5
KCPARKEYWORDVALUEENTRYID_0TO3	18	D7C1D9
KCPARKEYWORDVALUEENTRYID_4TO7	18	C5E8E5

Chapter 243. HZSZENF Information

HZSZENF Programming Interface Information

HZSZENF is a programming interface.

HZSZENF Heading Information

Common Name:	Health Checker for z/OS ENF (event code 67)
Macro ID:	HZSZENF
DSECT Name:	Enf067 Enf067_BitQual
Owning Component:	IBM Health Checker for z/OS (SCHZS)
Eye-Catcher ID:	EN67 Offset: 0 Length: 4
Storage Attributes:	Subpool: n/a Key: 0 or 8 Residency: Above 16M
Size:	Enf067 -- X'0020' bytes Enf067_BitQual -- X'0020' bytes
Created by:	IBM Health Checker for z/OS, and provided to ENF listeners for event 067.
Pointed to by:	R1 on entry to ENF listening routine
Serialization:	None required
Function:	Maps the data provided for ENF event 067.

HZSZENF mapping

Table 1001. Structure ENF067

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ENF067	IBM Health Checker for z/OS ENF parameter list
0	(0)	CHARACTER	4	ENF067_ID	Eyecatcher 'EN67'
4	(4)	CHARACTER	5	ENF067_COMPONENT	Component acronym 'SCHZS'
9	(9)	CHARACTER	3		Unused
12	(C)	SIGNED	4	ENF067_EVENT	This matches the first word of the BITQUAL area that would be set if requesting to listen only for that specific event.
16	(10)	SIGNED	4	ENF067_HCINSTANCENUM	Instance number of HC
20	(14)	CHARACTER	12		Unused
32	(20)	CHARACTER	1	ENF067_EVENTDATA(0)	Data (unique per event) Note that this area is not provided for the "Available" and "Not Available" events
32	(20)	CHARACTER	1	ENF067_EVENTDATA_AVAILABLE(0)	No data for "Available"
32	(20)	CHARACTER	1	ENF067_EVENTDATA_NOTAVAILABLE(0)	No data for "NotAvailable"
32	(20)	CHARACTER	1	ENF067_EVENTDATA_STATUSCHANGED(0)	No data for "StatusChanged"

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Table 1001. Structure ENF067 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	X'D5F6F7'	0	ENF067_ID_CHARS	"C'EN67'" Eyecatcher
32	(20)	X'20'	0	ENF067_LEN	"*-Enf067"

Table 1002. Structure ENF067_BITQUAL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ENF067_BITQUAL	
0	(0)	BITSTRING	4	ENF067_BITQUAL_WORD0	
0	(0)	BITSTRING	1	ENF067_BITQUAL_BYTE0	
Bit definitions:					
		1...		ENF067_BITQUAL_AVAILABLE	"X'80'" HC services are available
		.1..		ENF067_BITQUAL_NOTAVAILABLE	"X'40'" HC services are not available
		..1.		ENF067_BITQUAL_STATUSCHANGED	"X'20'" Some HC check has different status. It might have completed with a different result than the last time that it ran or might have been deactivated or deleted. If you are monitoring this event, upon receiving this you would probably want to issue HZSQUERY. Note that this event may not be presented if HC is terminating (indicated by an ENF 067 event for NotAvailable).
1	(1)	BITSTRING	1	ENF067_BITQUAL_BYTE1	Reserved
2	(2)	BITSTRING	1	ENF067_BITQUAL_BYTE2	Reserved
3	(3)	BITSTRING	1	ENF067_BITQUAL_BYTE3	Reserved
4	(4)	CHARACTER	28		Reserved
4	(4)	X'20'	0	ENF067_BITQUAL_LEN	"*-Enf067_BitQual"

Table 1003. Cross Reference for HZSZENF

Name	Offset	Hex Tag
ENF067	0	
ENF067_BITQUAL	0	
ENF067_BITQUAL_AVAILABLE	0	80
ENF067_BITQUAL_BYTE0	0	
ENF067_BITQUAL_BYTE1	1	
ENF067_BITQUAL_BYTE2	2	
ENF067_BITQUAL_BYTE3	3	
ENF067_BITQUAL_LEN	4	20
ENF067_BITQUAL_NOTAVAILABLE	0	40
ENF067_BITQUAL_STATUSCHANGED	0	20
ENF067_BITQUAL_WORD0	0	
ENF067_COMPONENT	4	

Table 1003. Cross Reference for HZSZENF (continued)

Name	Offset	Hex Tag
ENF067_EVENT	C	
ENF067_EVENTDATA	20	
ENF067_EVENTDATA_AVAILABLE	20	
ENF067_EVENTDATA_NOTAVAILABLE	20	
ENF067_EVENTDATA_STATUSCHANGED	20	
ENF067_HCINSTANCENUM	10	
ENF067_ID	0	
ENF067_ID_CHARS	20	D5F6F7
ENF067_LEN	20	20

Chapter 244. HZSZHCKL Information

HZSZHCKL Programming Interface Information

HZSZHCKL is a programming interface.

HZSZHCKL Heading Information

Common Name:	Log block
Macro ID:	HZSZHCKL
DSECT Name:	HCKLOG HCKLOGE
Owning Component:	IBM Health Checker for z/OS (SCHZS)
Eye-Catcher ID:	HCKL Offset: 0 Length: 4
Storage Attributes:	Subpool: n/a Key: 8
Size:	HCKLOG -- X'0118' bytes HCKLOGE -- X'0020' bytes
Created by:	Health Checker check initialization, or as mapped into the answer area for the output of the HZSQUERY service.
Pointed to by:	Internally (system use only): Pqe_MB_Stream_Ptr (HZSPQEI) HCKLOGs are chained via HCKLOG_NP (next/previous). Externally: HzsquaaHHcklAddr (HZSQUAA) in the output answer area of service HZSQUERY REQUEST=MSGBUFF. The returned HzsquaaHNumHckl number of log blocks are laid out consecutively in the answer area and a next log block can be addressed by adding Hcklog_BufLen to the address of a current log block.
Serialization:	None required
Function:	Maps the IBM Health Checker for z/OS log block

HZSZHCKL mapping

Table 1004. Structure HCKLOG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HCKLOG	HealthChecker logger record
0	(0)	CHARACTER	280	HCKLOGHEADER	Message header
0	(0)	CHARACTER	4	HCKLOG_ID	Eye catch: 'HCKL'
4	(4)	SIGNED	4	HCKLOG_VERSION	See equates HckLog_Version_xxx
8	(8)	CHARACTER	88	HCKLOG_INFIRSTBUFFERONLY	Only in the first buffer
8	(8)	CHARACTER	8	HCKLOG_NONINTERFACE2	Not part of the intended interface
8	(8)	CHARACTER	8	HCKLOG_NONINT2	
8	(8)	SIGNED	4	HCKLOG_TOTLEN	Total length of all buffers
12	(C)	SIGNED	4	HCKLOG_NUMBUFS	Total number of buffers
16	(10)	BITSTRING	16	HCKLOG_EXTENDED_STARTTOD	Place holder for extended tod
16	(10)	BITSTRING	1		Wrap TOD

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Table 1004. Structure HCKLOG (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
17	(11)	BITSTRING	8	HCKLOG_STARTTOD	TOD when the check was started
17	(11)	BITSTRING	4	HCKLOG_STARTTODHIGH	High order TOD word
21	(15)	BITSTRING	4	HCKLOG_STARTTODLOW	Low order TOD word
25	(19)	BITSTRING	7		Micro TOD
32	(20)	BITSTRING	16	HCKLOG_EXTENDED_ENDTOD	Place holder for extended TOD
32	(20)	BITSTRING	1		Wrap TOD
33	(21)	BITSTRING	8	HCKLOG_ENDTOD	TOD when the check completed.
33	(21)	BITSTRING	4	HCKLOG_ENDTODHIGH	High order TOD word
37	(25)	BITSTRING	4	HCKLOG_ENDTODLOW	Low order TOD word
41	(29)	BITSTRING	7		Micro TOD
48	(30)	CHARACTER	12	HCKLOG_CHECKRESULTDIAG	Result and diagnostic data from check
48	(30)	SIGNED	4	HCKLOG_CHECKRESULT	Result from check
52	(34)	CHARACTER	8	HCKLOG_CHECKDIAG	Diagnostic data from check
60	(3C)	CHARACTER	8	HCKLOG_NONINTERFACE3	Not part of the intended interface
60	(3C)	CHARACTER	8	HCKLOG_NONINT3	
60	(3C)	SIGNED	4	HCKLOG_TOTNUMLINES	Total number of lines for this check iteration, summed across all message buffers
64	(40)	SIGNED	4	HCKLOG_TOTNUMMSGS	Total number of messages for this check iteration, summed across all message buffers
68	(44)	BITSTRING	4	HCKLOG_BUFFERFLAGS	Buffer flags
68	(44)	BITSTRING	1	HCKLOG_BUFFERCHECKNORUNFLAGS	
Bit definitions:					
		1...		HCKLOG_PARM_ERROR	"X'80'" =1: User specified value is in error for this check
		.1..		HCKLOG_NA_CONFIG	"X'40'" =1: This check does not apply in the current system configuration
		..1.		HCKLOG_ERROR_THRESHOLD_EXCEEDED	"X'20'" Check routine abended consecutive times, or the check initialization routine failed
69	(45)	BITSTRING	1	HCKLOG_BUFFERCHECKREPORTFLAGS	Information about this check report
Bit definitions:					
		1...		HCKLOG_DATALOST	"X'80'" Some messages issued have been lost (there are not enough buffers available)
70	(46)	BITSTRING	2		Reserved for future expansion
72	(48)	CHARACTER	16	HCKLOG_MSGTOKEN	Message token corresponding to this message buffer
72	(48)	CHARACTER	8		
80	(50)	SIGNED	4	HCKLOG_CHECKHASRUNCOUNT	This corresponds to PQE_Cum_Check_Count within HZSPQE. Despite its location (not in "InEveryBuffer"), this value is actually set in every buffer.

Table 1004. Structure HCKLOG (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
84	(54)	CHARACTER	4		
88	(58)	CHARACTER	8		Reserved
96	(60)	CHARACTER	184	HCKLOG_INEVERYBUFFER	In every buffer
96	(60)	SIGNED	4	HCKLOG_BUFLEN	Total length of this buffer
100	(64)	SIGNED	2	HCKLOG_MAXLINES	Maximum number of lines that might be in the message area. This is based on the message text length
102	(66)	SIGNED	2	HCKLOG_MAXMSGTEXTLEN	Maximum message text length across the messages in the message area
104	(68)	SIGNED	4	HCKLOG_MESSAGEAREAOFFSET	Offset to the message area in this buffer. Add this value to the address of the HCKLOG to get the address of the first message in this buffer.
108	(6C)	SIGNED	4	HCKLOG_BUFNUM	Which buffer this is
112	(70)	SIGNED	4	HCKLOG_NUMBUFS_COPY	Copy of Hcklog_NumBufs
116	(74)	SIGNED	4	HCKLOG_NUMLINES	number of messages lines in this buffer
120	(78)	CHARACTER	8	HCKLOG_SYSPLEXNAME	Sysplex name where check was executed
128	(80)	CHARACTER	8	HCKLOG_SYSTEMNAME	System name where check was executed
136	(88)	CHARACTER	48	HCKLOG_CHECKOWNERNAME	
136	(88)	CHARACTER	16	HCKLOG_CHECKOWNER	Owning company and/or component
152	(98)	CHARACTER	32	HCKLOG_CHECKNAME	Name of the check routine that 'wrote' this message buffer
184	(B8)	SIGNED	4	HCKLOG_NUMMSGS	number of messages completed in this buffer
188	(BC)	BITSTRING	1	HCKLOG_WRITEFLAGS	write flags
Bit definitions:					
		1...		HCKLOG_SAVED	"X'80'" This buffer was save to the log stream
189	(BD)	CHARACTER	3		
192	(C0)	CHARACTER	52	HCKLOG_LOGSTREAMLASTWRITEINFO	Information about the previous message buffer (for this check) that has been written to the log stream buffer (HCKLOG_LogStreamLastWriteInfo is zeroes if there is no previous message buffer written to the log stream. CAUTION: if this changes, update DPQE too where this area is saved
192	(C0)	CHARACTER	8	HCKLOG_PREVIOUSBLKID	Block ID of the previous message buffer that was written to the message buffer
200	(C8)	CHARACTER	16	HCKLOG_PREVIOUSTIMESTAMP	Time stamp returned by IXGWRITE when the previous message buffer was written to the log stream
216	(D8)	CHARACTER	26	HCKLOG_PREVIOUSLOGSTREAMNAME	

Table 1004. Structure HCKLOG (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					The name of the log stream where the previous message buffer was saved
242	(F2)	CHARACTER	2		reserved. CAUTION: if fields are added, update DPQE too where this area is saved
244	(F4)	SIGNED	4	HCKLOG_NUMEXCEPTIONS	Number of exceptions exceptions issued by this iteration of the check
248	(F8)	CHARACTER	8	HCKLOG_FIRSTLINESTCK	STCK timestamp when the first line was put into the buffer. 0 if no lines in this buffer
256	(100)	CHARACTER	16	HCKLOG_NONINTERFACE1	Not part of the intended interface
272	(110)	CHARACTER	8		Reserved
272	(110)	X'0'	0	HCKLOG_VERSION_0	"0" Original release
272	(110)	X'1'	0	HCKLOG_VERSION_1	"1" z/OS 1.10
272	(110)	X'1'	0	HCKLOG_VERSION_CURRENT	"1"
272	(110)	X'118'	0	HCKLOG_LENGTH	"*-HCKLOG"

Table 1005. Structure HCKLOGE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HCKLOGE	A LOG line entry
0	(0)	CHARACTER	32	HCKLOGE_MSGPREFIX	Message line descriptor
0	(0)	CHARACTER	10	HCKLOGE_MSGNUM	Current message number
10	(A)	SIGNED	2	HCKLOGE_LEN	The length of the HCKLOG line entry.
12	(C)	BITSTRING	4	HCKLOGE_MSGFLGS	flags for the current msg line
12	(C)	BITSTRING	1	HCKLOGE_MSGSTOPSTARTFLAGS	
Bit definitions:					
		1...		HCKLOGE_MSGSTART	"X'80'" Start of new message
		.1..		HCKLOGE_MSGEND	"X'40'" Last line of current message
		..1.		HCKLOGE_SECTIONSTART	"X'20'" Start of new message section
		...1		HCKLOGE_SECTIONEND	"X'10'" Last line of current message section
		.... 1...		HCKLOGE_MSGEXCEPTTXT	"X'08'" Exception detected info no msgid is associated with this line
		.... .1..		HCKLOGE_MSGREASON	"X'04'" Reason line, associated with an exception message
13	(D)	BITSTRING	1	HCKLOGE_MSGTYPEFLAGS	
Bit definitions:					
		1...		HCKLOGE_MSGEXCEPTION	"X'80'" Current message is an exception message
		.1..		HCKLOGE_MSGDEBUG	"X'40'" Current message is a logonly debug message 'L' type msg

Table 1005. Structure HCKLOGE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		HCKLOGE_MSGREPORT	"X'20'" Current message is a detailed report
		...1		HCKLOGE_MSGINFO	"X'10'" Current message is informational
		.... 1...		HCKLOGE_STOP	"X'08'" STOP message
		.... .1..		HCKLOGE_HZSMSG	"X'04'" HZSMSG message
		.... ..1.		HCKLOGE_HZSHZS	"X'02'" Start/stop message
14	(E)	BITSTRING	2	HCKLOGE_MSGSECTIONTYPEFLAGS	
14	(E)	BITSTRING	1	HCKLOGE_MSGSECTIONTYPEFLAGSB1	Byte 1
Bit definitions:					
		1...		HCKLOGE_MSGMSG	"X'80'" Current line is within the main message text section of the message Message sections are part of an exception message
		.1..		HCKLOGE_EXPLANATION	"X'40'" Explanation section
		..1.		HCKLOGE_SYSACT	"X'20'" system action section
		...1		HCKLOGE_ORESP	"X'10'" Operator response section
		.... 1...		HCKLOGE_SPRESP	"X'08'" System Programmer response
		.... .1..		HCKLOGE_PROBD	"X'04'" Problem determination section
		.... ..1.		HCKLOGE_REFDOC	"X'02'" Manual reference section
		1		HCKLOGE_SOURCE	"X'01'" component reference section
15	(F)	BITSTRING	1	HCKLOGE_MSGSECTIONTYPEFLAGSB2	Byte 1
Bit definitions:					
		1...		HCKLOGE_AUTOMATION	"X'80'" Automation section
		..1.		HCKLOGE_OREASON	"X'20'" Owner Reason
		...1		HCKLOGE_PARMS	"X'10'" Current parameters
16	(10)	CHARACTER	14		reserved
30	(1E)	SIGNED	2	HCKLOGE_MSGTEXTLEN	Length of MsgText in HCKLOGE_MsgText
32	(20)	CHARACTER	1	HCKLOGE_MSGTEXT(0)	Message text line. Its length is in HCKLOGE_MsgTextLen
32	(20)	X'C3D2D3'	0	CHCKL_ACRONYM	"C'HCKL'" Eye catcher for HCKL
32	(20)	X'10000'	0	HCKLOG_LOGGERBUFSIZE	"65536" Maximum buffer size.
32	(20)	X'20'	0	HCKLOGE_LENGTH	"*-HCKLOGE"

Table 1006. Cross Reference for HZSZHCKL

Name	Offset	Hex Tag
CHCKL_ACRONYM	20	C3D2D3
HCKLOG	0	
HCKLOG_BUFFERCHECKNORUNFLAGS	44	
HCKLOG_BUFFERCHECKREPORTFLAGS	45	
HCKLOG_BUFFERFLAGS	44	
HCKLOG_BUFLEN	60	
HCKLOG_BUFNUM	6C	

Table 1006. Cross Reference for HZSZHCKL (continued)

Name	Offset	Hex Tag
HCKLOG_CHECKDIAG	34	
HCKLOG_CHECKHASRUNCOUNT	50	
HCKLOG_CHECKNAME	98	
HCKLOG_CHECKOWNER	88	
HCKLOG_CHECKOWNERNAME	88	
HCKLOG_CHECKRESULT	30	
HCKLOG_CHECKRESULTDIAG	30	
HCKLOG_DATALOST	45	80
HCKLOG_ENDTOD	21	
HCKLOG_ENDTODHIGH	21	
HCKLOG_ENDTODLOW	25	
HCKLOG_ERROR_THRESHOLD_EXCEEDED	44	20
HCKLOG_EXTENDED_ENDTOD	20	
HCKLOG_EXTENDED_STARTTOD	10	
HCKLOG_FIRSTLINESTCK	F8	
HCKLOG_ID	0	
HCKLOG_INEVERYBUFFER	60	
HCKLOG_INFIRSTBUFFERONLY	8	
HCKLOG_LENGTH	110	118
HCKLOG_LOGGERBUFSIZE	20	10000
HCKLOG_LOGSTREAMLASTWRITEINFO	C0	
HCKLOG_MAXLINES	64	
HCKLOG_MAXMSGTEXTLEN	66	
HCKLOG_MESSAGEAREAOFFSET	68	
HCKLOG_MSGTOKEN	48	
HCKLOG_NA_CONFIG	44	40
HCKLOG_NONINTERFACE1	100	
HCKLOG_NONINTERFACE2	8	
HCKLOG_NONINTERFACE3	3C	
HCKLOG_NONINT2	8	
HCKLOG_NONINT3	3C	
HCKLOG_NUMBUFS	C	
HCKLOG_NUMBUFS_COPY	70	
HCKLOG_NUMEXCEPTIONS	F4	
HCKLOG_NUMLINES	74	
HCKLOG_NUMMSGS	B8	
HCKLOG_PARM_ERROR	44	80
HCKLOG_PREVIOUSBLKID	C0	
HCKLOG_PREVIOUSLOGSTREAMNAME	D8	
HCKLOG_PREVIOUSTIMESTAMP	C8	
HCKLOG_SAVED	BC	80
HCKLOG_STARTTOD	11	
HCKLOG_STARTTODHIGH	11	
HCKLOG_STARTTODLOW	15	
HCKLOG_SYSPLEXNAME	78	
HCKLOG_SYSTEMNAME	80	
HCKLOG_TOTLEN	8	
HCKLOG_TOTNUMLINES	3C	
HCKLOG_TOTNUMMSGS	40	

Table 1006. Cross Reference for HZSZHCKL (continued)

Name	Offset	Hex Tag
HCKLOG_VERSION	4	
HCKLOG_VERSION_CURRENT	110	1
HCKLOG_VERSION_0	110	0
HCKLOG_VERSION_1	110	1
HCKLOG_WRITEFLAGS	BC	
HCKLOGE	0	
HCKLOGE_AUTOMATION	F	80
HCKLOGE_EXPLANATION	E	40
HCKLOGE_HZSHZS	D	2
HCKLOGE_HZSMSG	D	4
HCKLOGE_LEN	A	
HCKLOGE_LENGTH	20	20
HCKLOGE_MSGDEBUG	D	40
HCKLOGE_MSGEND	C	40
HCKLOGE_MSGEXCEPTION	D	80
HCKLOGE_MSGEXCEPTTXT	C	8
HCKLOGE_MSGFLGS	C	
HCKLOGE_MSGINFO	D	10
HCKLOGE_MSGMSG	E	80
HCKLOGE_MSGNUM	0	
HCKLOGE_MSGPREFIX	0	
HCKLOGE_MSGREASON	C	4
HCKLOGE_MSGREPORT	D	20
HCKLOGE_MSGSECTIONTYPEFLAGS	E	
HCKLOGE_MSGSECTIONTYPEFLAGSB1	E	
HCKLOGE_MSGSECTIONTYPEFLAGSB2	F	
HCKLOGE_MSGSTART	C	80
HCKLOGE_MSGSTOPSTARTFLAGS	C	
HCKLOGE_MSGTEXT	20	
HCKLOGE_MSGTEXTLEN	1E	
HCKLOGE_MSGTYPEFLAGS	D	
HCKLOGE_OREASON	F	20
HCKLOGE_ORESP	E	10
HCKLOGE_PARMS	F	10
HCKLOGE_PROBD	E	4
HCKLOGE_REFDOC	E	2
HCKLOGE_SECTIONEND	C	10
HCKLOGE_SECTIONSTART	C	20
HCKLOGE_SOURCE	E	1
HCKLOGE_SPRESP	E	8
HCKLOGE_STOP	D	8
HCKLOGE_SYSACT	E	20
HCKLOGHEADER	0	

Chapter 245. IARDRL Information

IARDRL Programming Interface Information

IARDRL is a programming interface.

IARDRL Heading Information

Common Name:	DSPSERV Range List Entry
Macro ID:	IARDRL
DSECT Name:	DRL
Owning Component:	Real Storage Manager (SC1CR)
Eye-Catcher ID:	None
Storage Attributes:	Virtual Storage: Yes Subpool: Caller-defined (must be non-pageable for caller with >16 ranges) Key: Caller-defined Residency: Must be above 16 meg virtual
Size:	DRLLEN bytes
Created by:	Caller
Pointed to by:	x_ZXRANGLIST field of DSPSERV MF(L,x) expansion.
Serialization:	None
Function:	Contains mapping for RANGLIST data for the DSPSERV service.

IARDRL mapping

Table 1007. Structure DRL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DRL	, Maps the DSPSERV range list (DRL) entry.
0	(0)	ADDRESS	4	DRLSTVSA	Starting virtual storage address of the data space range to be processed.
4	(4)	CHARACTER	1	DRLRSV	Reserved.
5	(5)	SIGNED	3	DRLNUMPG	Number of pages in the data space range to be processed.
8	(8)	SIGNED	4	DRLEND(0)	End of DSPSERV range list (DRL) entry mapping.
8	(8)	X'8'	0	DRLLEN	"DRLEND-DRL" Length of a DRL.

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Chapter 246. IARDSD Information

IARDSD Heading Information

Common Name:	Data Space Data
Macro ID:	IARDSD
DSECT Name:	DSD DSDE
Owning Component:	RSM (SC1CR)
Eye-Catcher ID:	NONE
Storage Attributes:	Subpool: 229 Key: 0 Residency: Above 16M
Size:	DSD -- X'001C' bytes DSDE -- X'0014' bytes
Created by:	Data space information service
Pointed to by:	None
Serialization:	None required
Function:	The DSD maps the information returned by the data space information service (IARCCDSL). This is used by DSPCALL's DSPLIST funtion. The output area consists of a header mapped by DSECT DSD followed by DSDTNUM entries (each mapped by DSECT DSDE). The DSDW maps the information returned by the data space information service (IARCCDSW). This is used by DSPCALL's DSPLISTW funtion. DESCRIPTION (DSD)= FREQUENCY = One per invocation of the data space information service ATTRIBUTES = Subpool 229 STORAGE ATTRIBUTES = ADDRESS SPACE PRIVATE ANCHOR = N/A SERIALIZATION = N/A CREATED BY = Data space information service INITIALIZED BY = Data space information service DESTROYED BY = Caller of the data space information service DESCRIPTION(DSDW)= FREQUENCY = One per invocation of the data space information service ATTRIBUTES = Non-pagable storage (caller-provided) STORAGE ATTRIBUTES = ADDRESS SPACE PRIVATE ANCHOR = N/A SERIALIZATION = N/A CREATED BY = Caller of the data space information service INITIALIZED BY = Data space information service DESTROYED BY = Caller of the data space information service

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IARDSD mapping

Table 1008. Structure DSD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DSD	
0	(0)	CHARACTER	28	DSDHDR	Header portion
0	(0)	CHARACTER	8	DSDUSER	User defined area
0	(0)	ADDRESS	4	DSDNEXT	Pointer to next DSD
4	(4)	ADDRESS	4	DSDPREV	Pointer to previous DSD
8	(8)	CHARACTER	4	DSDID	Control block id = 'DSD '
12	(C)	SIGNED	1	DSDVER	Version number
13	(D)	SIGNED	1	DSDSPID	Subpool id of storage for this DSD
14	(E)	BITSTRING	2	DSDFLGS	Flags
		1...		DSDSWAP	"X'80'" 0 => address space swapped in, 1 => address space swapped out or swap in progress
14	(E)	BITSTRING	1		Reserved
16	(10)	SIGNED	4	DSDLEN	Length of this DSD
20	(14)	SIGNED	2	DSDASID	ASID that owns the data spaces listed in the DSD entries
22	(16)	SIGNED	2		Reserved
24	(18)	SIGNED	4	DSDTNUM	Number of data spaces listed in the DSD entries
24	(18)	X'1C'	0	DSD_LEN	"*-DSD"

Table 1009. Structure DSDE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DSDE	
0	(0)	CHARACTER	8	DSDENAME	Data space name
8	(8)	CHARACTER	8	DSDESTOK	Data space STOKEN
16	(10)	ADDRESS	4	DSDEASTE	Data space ASTE real address
16	(10)	X'E2C440'	0	DSDIDC	"C'DSD '" Control block id
16	(10)	X'1'	0	DSDVER1	"1" Version number
16	(10)	X'14'	0	DSDE_LEN	"*-DSDE"

Table 1010. Cross Reference for IARDSD

Name	Offset	Hex Tag
DSD	0	
DSD_LEN	18	1C
DSDASID	14	
DSDE	0	
DSDE_LEN	10	14
DSDEASTE	10	
DSDENAME	0	
DSDESTOK	8	
DSDFLGS	E	
DSDHDR	0	
DSDID	8	
DSDIDC	10	E2C440

Table 1010. Cross Reference for IARDSD (continued)

Name	Offset	Hex Tag
DSDLEN	10	
DSDNEXT	0	
DSDPREV	4	
DSDSPID	D	
DSDSWAP	E	80
DSDTNUM	18	
DSDUSER	0	
DSDVER	C	
DSDVER1	10	1

Chapter 247. IARRAX64 Information

IARRAX64 Programming Interface Information

IARRAX64 is a programming interface.

IARRAX64 Heading Information

Common Name:	Rsm Address space block eXtension 64 area
Macro ID:	IARRAX64
DSECT Name:	RAX64
Owning Component:	Real Storage Manager (SC1CR)
Eye-Catcher ID:	IARRAX64 Offset: 0 Length: 8
Storage Attributes:	Main Storage: Yes Virtual Storage: Yes Subpool: n/a if above-the-bar or 245 if below-the-bar Key: 0 Data Space: No Residency: Above-the-bar Common storage or
Size:	Iar_tRax64 -- X'0080' bytes
Created by:	RSM
Pointed to by:	Rax64Ptr in IARRAX
Serialization:	Field dependent
Function:	The RAX64 contains address space-related control values and counters used by RSM.

IARRAX64 mapping

Table 1011. Structure IAR_TRAX64

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IAR_TRAX64	
0	(0)	CHARACTER	8	RAX64_ID	
8	(8)	SIGNED	8	RAX64_LVSHR1MBYTES	Number (in bytes) of High Virtual Shared 1M pages allocated for this address space (Count includes hidden 1M pages) - Serialized by RSMAD lock
16	(10)	SIGNED	8	RAX64_LVSHR1MGBYTES	High water mark (in bytes) for the number of High Virtual Shared 1M pages allocated for this address space (Count includes hidden 1M pages) - Serialized by RSMAD lock
24	(18)	SIGNED	8	RAX64_LVSHR1MNMOMB	Number of Shared 1M memory objects allocated for this address space - Serialized by RSMAD lock
32	(20)	SIGNED	8	RAX64_HVSHR1MPAGEVALIDATIONS	

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Table 1011. Structure IAR_TRAX64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					Number of Shared 1M page validations for this address space - Serialized by CS
40	(28)	CHARACTER	88	RAX64_RSV001	Reserved for HBB77A0
40	(28)	X'C1D9D9'	0	RAX64_KEYECATCHER_0TO3	"C'IARR'" This is the first 4-byte segment of an 8-byte constant.
40	(28)	X'E7F6F4'	0	RAX64_KEYECATCHER_4TO7	"C'AX64'" This is the second 4-byte segment of an 8-byte constant.
40	(28)	X'80'	0	IAR_TRAX64_LEN	"*-Iar_tRax64"

Table 1012. Cross Reference for IARRAX64

Name	Offset	Hex Tag
IAR_TRAX64	0	
IAR_TRAX64_LEN	28	80
RAX64_HVSHR1MPAGEVALIDATIONS	20	
RAX64_ID	0	
RAX64_KEYECATCHER_0TO3	28	C1D9D9
RAX64_KEYECATCHER_4TO7	28	E7F6F4
RAX64_LVSHR1MBYTES	8	
RAX64_LVSHR1MGBYTES	10	
RAX64_LVSHR1MNMOMB	18	
RAX64_RSV001	28	

Chapter 248. IARRCE64 Information

IARRCE64 Programming Interface Information

IARRCE64 is a programming interface.

IARRCE64 Heading Information

Common Name:	Rsm Control and Enumeration 64-bit extension area
Macro ID:	IARRCE64
DSECT Name:	RCE64
Owning Component:	Real Storage Manager (SC1CR)
Eye-Catcher ID:	IARRCE64 Offset: 0 Length: 8
Storage Attributes:	Main Storage: Yes Virtual Storage: Yes Subpool: n/a Key: 0 Data Space: No Residency: Above-the-bar Fixed Common Storage
Size:	Iar_tRce64 -- X'0100' bytes
Created by:	RSM
Pointed to by:	RCE64PTR in IARRCE
Serialization:	Field dependent
Function:	The RCE64 contains system wide counts and control information used by RSM.

IARRCE64 mapping

Table 1013. Structure IAR_TRCE64

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IAR_TRCE64	Size of RCE64 should be in powers of 2 since it is obtained via the IARST64 service. See also IAXESTATS
0	(0)	CHARACTER	8	RCE64_ID	
8	(8)	SIGNED	8	RCE64_LVSHR1MPAGES	Number of High Virtual Shared 1M pages allocated for the entire system (Count includes hidden 1M pages) - Serialized by RSMCM lock
16	(10)	SIGNED	8	RCE64_LVSHR1MGBYTES	High water mark (in bytes) for the number of High Virtual Shared 1M pages allocated for the entire system (Count includes hidden 1M pages) - Serialized by RSMCM lock
24	(18)	SIGNED	8	RCE64_LVSHR1MNMOMB	Number of Shared 1M memory objects allocated for the entire system - Serialized by RSMCM lock

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Table 1013. Structure IAR_TRCE64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	SIGNED	8	RCE64_HVSHR1MPAGEINS	Number of High Virtual Shared 1M pages paged in from auxiliary storage - Serialized by CS
40	(28)	SIGNED	8	RCE64_HVSHR1MPAGEOUTS	Number of High Virtual Shared 1M pages paged out to auxiliary storage - Serialized by CS
48	(30)	SIGNED	8	RCE64_HVSHR1MINREAL	Number of High Virtual Shared 1M pages backed in real - Serialized by CS
56	(38)	SIGNED	8	RCE64_HVSHR1MAUXSCM	Number of High Virtual Shared 1M pages backed on SCM storage - Serialized by RSMCM lock
64	(40)	SIGNED	8	RCE64_HVSHRPAGEINSSCM	Number of High Virtual Shared pages paged in from SCM storage. This count includes the RceHvShr1MPageInsScm value - Serialized by RSMCM lock
72	(48)	SIGNED	8	RCE64_HVSHR1MPAGEINSSCM	Number of High Virtual Shared 1M pages paged in from SCM storage - Serialized by RSMCM lock
80	(50)	SIGNED	8	RCE64_HVSHRPAGEOUTSSCM	Number of High Virtual Shared pages paged out to SCM storage. This count includes the RceHvShr1MPageOutsScm value - Serialized by RSMCM lock
88	(58)	SIGNED	8	RCE64_HVSHR1MPAGEOUTSSCM	Number of High Virtual Shared 1M pages paged out to SCM storage - Serialized by RSMCM lock
96	(60)	ADDRESS	8	RCE64_ESTAT@	Address of Stats Area
104	(68)	CHARACTER	24	RCE64_RSV001	Reserved for HBB77A0
256	(100)	X'100'	0	IAR_TRCE64_LEN	"*-Iar_tRce64"

Table 1014. Cross Reference for IARRCE64

Name	Offset	Hex Tag
IAR_TRCE64	0	
IAR_TRCE64_LEN	100	100
RCE64_ESTAT@	60	
RCE64_HVSHRPAGEINSSCM	40	
RCE64_HVSHRPAGEOUTSSCM	50	
RCE64_HVSHR1MAUXSCM	38	
RCE64_HVSHR1MINREAL	30	
RCE64_HVSHR1MPAGEINS	20	
RCE64_HVSHR1MPAGEINSSCM	48	
RCE64_HVSHR1MPAGEOUTS	28	
RCE64_HVSHR1MPAGEOUTSSCM	58	
RCE64_ID	0	
RCE64_LVSHR1MGBYTES	10	
RCE64_LVSHR1MNMOMB	18	
RCE64_LVSHR1MPAGES	8	
RCE64_RSV001	68	

Chapter 249. IARVRL Information

IARVRL Programming Interface Information

IARVRL is a programming interface.

IARVRL Heading Information

Common Name:	IARVSERV Virtual Range List Entry
Macro ID:	IARVRL
DSECT Name:	VRL
Owning Component:	Real Storage Manager (SC1CR)
Eye-Catcher ID:	None
Storage Attributes:	Virtual Storage: Yes Subpool: Caller-defined (must be non-pageable for authorized caller with >16 ranges) Key: Caller-defined Residency: Must be above 16 meg virtual
Size:	VRLLEN bytes
Created by:	Caller
Pointed to by:	x_ZXRANGLIST field of IARVSERV MF(L,x) expansion.
Serialization:	None
Function:	Contains mapping for RANGLIST data for the IARVSERV service.

IARVRL mapping

Table 1015. Structure VRL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	VRL	, Maps the IARVSERV range list (VRL) entry
0	(0)	ADDRESS	4	VRLSVSA	Starting virtual storage address of the source data to be made shared. This field is ignored for the UNSHARE request.
4	(4)	BITSTRING	8	VRLSSTKN(0)	STOKEN of the space in which the source data resides. If ALET is used rather than STOKEN, then the first 4 bytes must be zero. This field is ignored for the UNSHARE request. Note: an STOKEN may be specified for data space storage only.
4	(4)	BITSTRING	4	VRLSSTK1	First word of source STOKEN. When this word is zero, VRLSALET contains an ALET
8	(8)	SIGNED	4	VRLSALET	ALET which corresponds to the space in which the source data resides. This field is ignored for the UNSHARE request.

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Table 1015. Structure VRL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	ADDRESS	4	VRLNUMPG	Number of pages in the SOURCE and/or TARGET area. This field is required for both the SHARE and the UNSHARE requests.
16	(10)	ADDRESS	4	VRLTVSA	Starting virtual storage address of the target data to be made shared or unshared. This field is required for both the SHARE and the UNSHARE requests.
20	(14)	BITSTRING	8	VRLTSTKN(0)	STOKEN of the space in which the target data resides. If ALET is used rather than STOKEN, then the first 4 bytes must be zero. This field is required for both the SHARE and the UNSHARE requests. Note: an STOKEN may be specified for data space storage only.
20	(14)	BITSTRING	4	VRLTSTK1	First word of target STOKEN. When this word is zero, VRLSALET contains an ALET
24	(18)	SIGNED	4	VRLTALET	ALET which corresponds to the space in which the target data resides. This field is required for both the SHARE and the UNSHARE requests.
28	(1C)	SIGNED	4	VRLEND(0)	End of IARVSERV range list (VRL) entry mapping
28	(1C)	X'1C'	0	VRLLEN	"VRLEND-VRL" Length of a VRL

Table 1016. Cross Reference for IARVRL

Name	Offset	Hex Tag
VRL	0	
VRLEND	1C	
VRLLEN	1C	1C
VRLNUMPG	C	
VRLSALET	8	
VRLSSTKN	4	
VRLSSTK1	4	
VRLSVSA	0	
VRLTALET	18	
VRLTSTKN	14	
VRLTSTK1	14	
VRLTVSA	10	

Chapter 250. IAXCNTPL Information

IAXCNTPL Heading Information

Common Name:	RSM Frame Count Service Parameter List
Macro ID:	IAXCNTPL
DSECT Name:	None
Owning Component:	Real Storage Manager (SC1CR)
Eye-Catcher ID:	None
Storage Attributes:	Virtual Storage: Yes Auxiliary Storage: No Subpool: User specified Key: Any, but must agree with input save area, parm list, and work area. AMODE = 31 LOCKS HELD = None required ASC MODE = Primary or Secondary ADDRESS SPACE = Irrelevent MEMORY MODE = XMEM | non-XMEM DISPATCH MODE = Task | SRB Data Space: No Residency: User specified
Size:	48 bytes
Created by:	CALLER INITIALIZED BY = CALLER DESTROYED BY = CALLER
Pointed to by:	Register 1 (request to IAXXC)
Serialization:	PROVIDED BY CALLER
Function:	Contains input and output information for the request to IAXXC to obtain the frame count

IAXCNTPL mapping

Table 1017. Structure PARMS_NTF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	48	PARMS_NTF	Parm list for IARXCNTF
0	(0)	ADDRESS	4	NTFWORKA	Address of input work area
4	(4)	BITSTRING	4	FLAGS	Flags word
		1...		SWAP_FLAG	Address space swapped in/out indicator (not meaningful if this request was for common). 0 = swapped in 1 = swapped out
		.1..		NEW_PLIST	1 = New Parm list which contains FIXED_ABOVE is used 0 = Old Parm list is used
4	(4)	BITSTRING	3	*	Reserved
8	(8)	SIGNED	4	FXED	The total number of fixed frames owned by the address space or page-fixed pages if this is common

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Table 1017. Structure PARMS_NTF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	SIGNED	4	FIXED_BEL	Of the total fixed frames indicated in FXED field, the number of frames located below 16MB real storage
16	(10)	SIGNED	4	FIXED_LSQA	Of the total fixed frames indicated in FXED field, the number of frames backing LSQA pages (will be zero for common)
20	(14)	SIGNED	4	DREF	The total amount of processor storage (frames) backing LSQA DREF and data space DREF storage (SQA-DREF if request is for common)
24	(18)	SIGNED	4	DREF_REAL	Of the total indicated in DREF field the number of real storage frames backing LSQA DREF and data space DREF storage (SQA DREF for common)
28	(1C)	SIGNED	4	CSA	The total amount of processor storage (frames) backing CSA pages. It is only meaningful for common and not meaningful for address spaces
32	(20)	SIGNED	4	FIXED_ABOVE	Of the total fixed frames indicated in FXED field, the number of frames located between 16MB and 2G real storage
36	(24)	SIGNED	4	LARGEPAGESBACKEDINREAL	Number of large page frames (1MB page frames) owned by this address space that are backed in real
40	(28)	SIGNED	4	TWOGIGPAGESBACKEDINREAL	Number of 2G page frames owned by this address space that are backed in real
44	(2C)	CHARACTER	4	CNTRSV	Reserved

Table 1018. Constants for IAXCNTPL

Len	Type	Value	Name	Description
4	DECIMAL	128	NTFWORKA_SIZE	Size of the input workarea needed by the frame count service routine

Table 1019. Cross Reference for IAXCNTPL

Name	Offset	Hex Tag
CNTRSV	2C	
CSA	1C	
DREF	14	
DREF_REAL	18	
FIXED_ABOVE	20	
FIXED_BEL	C	
FIXED_LSQA	10	
FLAGS	4	

Table 1019. Cross Reference for IAXCNTPL (continued)

Name	Offset	Hex Tag
FXED	8	
LARGEPAGESBACKEDINREAL	24	
NEW_PLIST	4	40
NTFWORKA	0	
PARMS_NTF	0	
SWAP_FLAG	4	80
TWOGIGPAGESBACKEDINREAL	28	

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