

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
3 COPY LOG7A25 ** MAP EC HISTORY **
4 *****
5
6 *** PREREQUISITES ***
7
8 NONE
9
10 *****
11 *** MODIFICATIONS ***
12
13 CHANGES MADE TO CORRECT ERRORS FOUND WHILE IN TEST
14 *****
15
16 *** REA'S INCORPORATED ***
17
18 NONE
19
20 *****
21 *** SPECIAL INSTRUCTIONS ***
22
23 NONE
24 *****
25
26 *** E. C. HISTORY ***
27
28
29
30
31
32 DATE 17AUG78 DATE 10JAN79 DATE DATE
33 E.C. 755391 E.C. 375222 E.C. E.C.
34 *****
35 I7A25 START X'2500' START ADDRESS OF ALL 'I' TYPE PROG
36 @ROUTE EQU X'0100' EQUATED VALUE FOR MDI STATEMENT
37 @FIXT EQU X'0101' EQUATED VALUE FOR MDI STATEMENT
38 @STOP EQU X'0102' EQUATED VALUE FOR MDI STATEMENT
39 @GOTO EQU X'0200' EQUATED VALUE FOR MDI STATEMENT
40 @CALL EQU X'0201' EQUATED VALUE FOR MDI STATEMENT
41 @INPT EQU X'0300' EQUATED VALUE FOR MDI STATEMENT
42 @QUXX EQU X'0400' EQUATED VALUE FOR MDI STATEMENT
43 @TUXX EQU X'0500' EQUATED VALUE FOR MDI STATEMENT
44 @NVLD EQU X'0600' EQUATED VALUE FOR MDI STATEMENT
45 EQ EQU X'0000' EQUATE FOR EQUAL
46 NE EQU X'0004' EQUATE FOR NOT EQUAL
47 HI EQU X'0008' EQUATE FOR HIGH
48 NH EQU X'0010' EQUATE FOR NOT HIGH
49 LO EQU X'0010' EQUATE FOR LOW
50 NL EQU X'0014' EQUATE FOR NOT LOW
51 LT EQU X'0010' EQUATE FOR LESS THAN
52 LE EQU X'000C' EQUATE FOR LESS THAN OR EQUAL TO
53 GT EQU X'0008' EQUATE FOR GREATER THAN
54 GE EQU X'0014' EQUATE FOR GREATER THAN OR EQUAL TO
55 ON EQU X'0200' EQUATE FOR ON
56 OF EQU X'0202' EQUATE FOR OFF
57 MX EQU X'0204' EQUATE FOR MIXED
58 EBC EQU X'0000' EQUATE FOR EBCDIC DATA TRANSFER
59 HEX EQU X'0001' EQUATE FOR HEX DATA TRANSFER
60 XTRNL EQU X'0001' EQUATE FOR EXTERNAL REFERENCE
61 INTRNL EQU X'0000' EQUATE FOR INTERNAL REFERENCE
62 PARM EQU X'0000' EQUATE INDICATING PARAMETER
63 DA EQU X'0001' EQUATE FOR DEVICE ADDRESS
64 UA EQU X'0002' EQUATE FOR UNIT ADDRESS
65 DUMMY EQU X'0000' DUMMY EQUATE
66 PID EQU *-X'0D00' ADDRESS OF MDI HEADER
67 PTYPE EQU *-X'22CE' ADDRESS OF PROCESSOR TYPE FIELD
68 STEPNUM EQU PID+X'000C' ADDRESS OF DECIMAL STEP NUMBER
69 OPWD1 EQU PID+X'000E' ADDRESS OF OPTION WORD ONE
70 OPWD2 EQU PID+X'0010' ADDRESS OF OPTION WORD TWO
71 TUSTATUS EQU PID+X'0018' ADDRESS OF TU STATUS WORD
72 TWORK EQU PID+X'001A' ADDRESS OF TU WORK AREA
73 TUPARM1 EQU PID+X'009A' ADDRESS OF PARM 1 POINTER
74 TUPARM2 EQU PID+X'009C' ADDRESS OF PARM 2 POINTER
75 TUPARM3 EQU PID+X'009E' ADDRESS OF PARM 3 POINTER
76 TUPARM4 EQU PID+X'00A0' ADDRESS OF PARM 4 POINTER
77 TUPARM5 EQU PID+X'00A2' ADDRESS OF PARM 5 POINTER
78 TUPARM6 EQU PID+X'00A4' ADDRESS OF PARM 6 POINTER
79 TUPARM7 EQU PID+X'00A6' ADDRESS OF PARM 7 POINTER
80 TUPARM8 EQU PID+X'00A8' ADDRESS OF PARM 8 POINTER
81 TUPARM9 EQU PID+X'00AA' ADDRESS OF PARM 9 POINTER
82 TUPARM10 EQU PID+X'00AC' ADDRESS OF PARM 10 POINTER
83 TUPARM11 EQU PID+X'00AE' ADDRESS OF PARM 11 POINTER
84 TUPARM12 EQU PID+X'00B0' ADDRESS OF PARM 12 POINTER
85 TUPARM13 EQU PID+X'00B2' ADDRESS OF PARM 13 POINTER
86 TUPARM14 EQU PID+X'00B4' ADDRESS OF PARM 14 POINTER
87 TUPARM15 EQU PID+X'00B6' ADDRESS OF PARM 15 POINTER
88 TUPARM16 EQU PID+X'00B8' ADDRESS OF PARM 16 POINTER
89 TUMSGWTR EQU PID+X'00BA' ADDRESS OF -> TO COMMON MSG WRITER
90 TUA EQU PID+X'00BE' ADDRESS OF UNIT ADDRESS IN EBC
91 TUDA EQU PID+X'00C0' ADDRESS OF DEVICE ADDRESS IN EBC
92 TUBUFF EQU PID+X'00C2' ADDRESS OF LAST USED WORD IN MAP
93 TULAST EQU PID+X'00C4' ADDRESS OF LAST ADDRESSABLE WORD
94 TURESULN EQU PID+X'00C6' ADDRESS OF LENGTH OF TU RESULTS
95 TURESUL EQU PID+X'00C8' ADDRESS OF TU RESULTS FIELD
96 MAPNAME EQU PID+X'00FC' ADDRESS OF MAP NAME FIELD IN HEX
97 TUINPT EQU PID+X'0148' ADDRESS OF \$INPT DATA
98 PARMARA EQU PID+X'016E' ADDRESS OF \$INPT INPUT AREA
99 @DCADD1 EQU PID+X'01B8' MDI POINTER
100 @DCADD2 EQU PID+X'01BA' MDI POINTER
101 SUPSTAT EQU PID+X'01C4' ADDRESS OF MDI STATUS
102 DEVADD EQU PID+X'01D0' ADDRESS OF DEVICE ADDRESS TABLE 0
103 DEVADD1 EQU PID+X'01DA' ADDRESS OF DEVICE ADDRESS TABLE 1
104 DEVADD2 EQU PID+X'01E4' ADDRESS OF DEVICE ADDRESS TABLE 2
105 DEVADD3 EQU PID+X'01EE' ADDRESS OF DEVICE ADDRESS TABLE 3
106 DEVADD4 EQU PID+X'01F8' ADDRESS OF DEVICE ADDRESS TABLE 4
107 DEVADD5 EQU PID+X'0202' ADDRESS OF DEVICE ADDRESS TABLE 5
108 DEVADD6 EQU PID+X'020C' ADDRESS OF DEVICE ADDRESS TABLE 6
109 DEVADD7 EQU PID+X'0216' ADDRESS OF DEVICE ADDRESS TABLE 7
110 PRINT OFF

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002500 30BC 198 DC A(ENTPT) POINT TO MAP ENTRY POINT TABLE
199 *****
200 *****
201 *****
202 THE FOLLOWING TABLES ARE USED BY THE MDI SUPERVISOR (D3C00)
203 TO LOCATE THE CORRECT RULE TO INVOKE, TO OBTAIN THE PROPER
204 PARAMETERS TO PASS TO THE TU'S AND TO PASS TO THE OPERATOR
205 THE INDICATED MESSAGE(S). THERE ARE FOUR TABLES USED FOR THIS
206 PURPOSE THEY ARE:
207
208 STEP AND RULE ADDRESS TABLE
209 THIS TABLE GIVES THE ADDRESS OF THE RULE TO INVOKE AND
210 THE ASSOCIATED STEP DECIMAL STEP NUMBER OF THAT RULE.
211 ENTRIES ARE AS FOLLOWS
212 A) AN ADDRESS OF THE RULE DC START AREA
213 B) THE STEP NUMBER IN DECIMAL
214 C) AN EQUATE FOR THE STEP NUMBER
215
216 RULE INFORMATION TABLE
217 THIS TABLE CONTAINS THE REQUIRED INFORMATION TO EXECUTE
218 THE APPROPRIATE RULE UNDER MDI. EACH RULE HAS ITS OWN
219 UNIQUELY DEFINED AREA INDICATED BELOW. END OF TABLE IS
220 INDICATED WITH A X'0000' FOR THE RULE EQUATE.
221
222 \$QUES
223 A) RULE EQUATE X'0100'
224 B) ADDRESS OF THE YES LFG RULE
225
226 \$FIXT
227 A) RULE EQUATE X'0101'
228 B) ADDRESS OF MESSAGE TO PRINT
229
230 \$STOP
231 A) RULE EQUATE X'0102'
232 B) ADDRESS OF MESSAGE
233
234 \$GOTO
235 A) RULE EQUATE X'0200'
236 B) ADDRESS OF MESSAGE
237 C) NAME OF MAP TO GO TO
238 D) ENTRY POINT WITHIN GO TO MAP TO USE
239 E) INDICATOR FOR EXTERNAL OR INTERNAL REFERENCE
240
241 \$CALL
242 A) RULE EQUATE X'0201'
243 B) ADDRESS OF MESSAGE
244 C) NAME OF MAP TO CALL
245 D) ENTRY POINT WITHIN CALLED MAP TO USE
246 E) INDICATOR FOR EXTERNAL OR INTERNAL REFERENCE
247
248 \$INPT
249 A) RULE EQUATE X'0300'
250 B) INPUT TYPE (EBCDIC OR HEX)
251 C) ADDRESS OF YES LEG RULE
252 D) DESTINATION LOCATION OF INPUT DATA
253 E) LENGTH OF INPUT DATA
254 F) LOWER LIMIT OF GOOD DATA
255 G) HIGHER LIMIT OF GOOD DATA
256
257 \$QUXX
258 A) RULE EQUATE X'0400'
259 B) ADDRESS OF YES LEG RULE
260 C) TU BRANCH TO ADDRESS (INITIAL)
261 D) TU BRANCH TO ADDRESS (SECONDARY)
262 E) LENGTH OF PARAMETER IN BYTES
263 F) PARAMETER TO PASS TO TU
264 G) STORE ADDRESS FOR FIRST 8 WORDS OF PARAMETER
265
266 \$TUXX
267 A) RULE EQUATE X'0500'
268 B) ADDRESS OF YES LEG RULE
269 C) TU BRANCH TO ADDRESS
270 D) TYPE OF COMPARE TO MAKE ON RESULTS
271 E) LENGTH OF COMPARE TO MAKE ON RESULTS
272 F) MASK FIELD FOR COMPARE
273 G) LENGTH OF PARAMETER IN BYTES
274 H) PARAMETER TO PASS TO THE TU
275 I) STORE ADDRESS FOR FIRST 8 WORDS OF PARAMETER
276
277 \$NVLD
278 A) RULE EQUATE X'0600'
279
280
281 ENTRY POINT TABLE
282 THIS TABLE CONTAINS THE ENTRY POINTS WITHIN THE MAP THAT
283 THE MAP CAN BE ENTERED FROM THESE ENTRY POINTS ARE
284 REFERENCED BY NAME AND ADDRESS. ENTRIES ARE AS FOLLOWS:
285
286 A) NAME OF ENTRY POINT
287 B) ADDRESS OF ENTRY POINT RULE TABLE
288
289 THE ENTRY POINT TABLE END IS INDICATED BY A X'0000'
290
291 MESSAGE TABLE
292 THIS TABLE CONTAINS THE MESSAGE PASSED TO THE OPERATOR
293 VIA THE MDI SUPERVISOR. THE TABLE IS AS FOLLOWS:
294
295 A) EQUATE FOR START OF MESSAGE BLOCK
296 B) NUMBER OF LINES OF MESSAGE
297 C) LENGTH OF FOLLOWING LINE
298 D) FIRST LINE OF MESSAGE
299 E) LENGTH OF FOLLOWING LINE
300 F) SECOND LINE OF MESSAGE
301 G) ETC.
302
303 *****
304 *****
305 *****

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992 N00019 $FIXT FT=(F00052),GTO=((7A70,E))
993+N00019 DC A(@FIXT)
994+ DC A(F00052)
995 N00020 $TUXX T7A02,7,00000000000004,ON,QT=(Q00007),YES=N00022, X
996+N00020 DC A(@TUXX)
997+ DC AL2(N00022)
998+ DC A(T7A02)
999+ DC AL2(ON)
1000+ DC AL2(7)
1001+ DC X'000000000000004'
1002+ ALIGN WORD
1003+ DC AL2(0)
1004+ DC C'AA'
1005+ ALIGN WORD
1006+ DC AL2(PARMARA)
1007 N00021 $FIXT FT=(F00052),GTO=((7A70,E))
1008+N00021 DC A(@FIXT)
1009+ DC A(F00052)
1010 N00022 $FIXT FT=(F00033),GTO=((7A70,C))
1011+N00022 DC A(@FIXT)
1012+ DC A(F00033)
1013 N00023 $FIXT FT=(F00082),GTO=((7A76,R))
1014+N00023 DC A(@FIXT)
1015+ DC A(F00082)
1016 N00024 $TUXX T7A02,8,0000001000000010,OF,QT=(Q00006),YES=N00038, X
1017+N00024 DC A(@TUXX)
1018+ DC AL2(N00038)
1019+ DC A(T7A02)
1020+ DC AL2(OF)
1021+ DC AL2(8)
1022+ DC X'000000001000000010'
1023+ ALIGN WORD
1024+ DC AL2(0)
1025+ DC C'AA'
1026+ ALIGN WORD
1027+ DC AL2(PARMARA)
1028 N00025 $TUXX T7A02,8,0000000000000040,ON,QT=(Q00007),YES=N00031, X
1029+N00025 DC A(@TUXX)
1030+ DC AL2(N00031)
1031+ DC A(T7A02)
1032+ DC AL2(ON)
1033+ DC AL2(8)
1034+ DC X'0000000000000040'
1035+ ALIGN WORD
1036+ DC AL2(0)
1037+ DC C'AA'
1038+ ALIGN WORD
1039+ DC AL2(PARMARA)
1040 N00026 $TUXX T7A02,7,000008000000008,OF,QT=(Q00006),YES=N00030, X
1041+N00026 DC A(@TUXX)
1042+ DC AL2(N00030)
1043+ DC A(T7A02)
1044+ DC AL2(OF)
1045+ DC AL2(7)
1046+ DC X'000008000000008'
1047+ ALIGN WORD
1048+ DC AL2(0)
1049+ DC C'AA'
1050+ ALIGN WORD
1051+ DC AL2(PARMARA)
1052 N00027 $TUXX T7A02,2,0001,OF,QT=(Q00006),YES=N00029,CT=(C00073)
1053+N00027 DC A(@TUXX)
1054+ DC AL2(N00029)
1055+ DC A(T7A02)
1056+ DC AL2(OF)
1057+ DC AL2(2)
1058+ DC X'00001'
1059+ ALIGN WORD
1060+ DC AL2(0)
1061+ DC C'AA'
1062+ ALIGN WORD
1063+ DC AL2(PARMARA)
1064 N00028 $FIXT FT=(F00080),GTO=((7A76,O))
1065+N00028 DC A(@FIXT)
1066+ DC A(F00080)
1067 N00029 $FIXT FT=(F00076),GTO=((7A72,F))
1068+N00029 DC A(@FIXT)
1069+ DC A(F00076)
1070 N00030 $FIXT FT=(F00082),GTO=((7A76,R))
1071+N00030 DC A(@FIXT)
1072+ DC A(F00082)
1073 N00031 $TUXX T7A02,8,0000000400000004,OF,QT=(Q00006),YES=N00037, X
1074+N00031 DC A(@TUXX)
1075+ DC AL2(N00037)
1076+ DC A(T7A02)
1077+ DC AL2(OF)
1078+ DC AL2(8)
1079+ DC X'0000000400000004'
1080+ ALIGN WORD
1081+ DC AL2(0)
1082+ DC C'AA'
1083+ ALIGN WORD
1084+ DC AL2(PARMARA)
1085 N00032 $TUXX T7A02,2,0001,OF,QT=(Q00006),YES=N00036,CT=(C00073)
1086+N00032 DC A(@TUXX)
1087+ DC AL2(N00036)
1088+ DC A(T7A02)
1089+ DC AL2(OF)
1090+ DC AL2(2)
1091+ DC X'00001'
1092+ ALIGN WORD
1093+ DC AL2(0)
1094+ DC C'AA'
1095+ ALIGN WORD
1096+ DC AL2(PARMARA)
1097 N00033 $TUXX T7A02,7,000000000000020,ON,QT=(Q00007),YES=N00035, X
1098+N00033 DC A(@TUXX)
1099+ DC AL2(N00035)
1100+ DC A(T7A02)
1101+ DC AL2(ON)
1102+ DC AL2(7)
1103+ DC X'000000000000020'
1104+ ALIGN WORD
1105+ DC AL2(0)

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1106+ DC C'AA'
1107+ ALIGN WORD
1108+ DC AL2(PARMARA)
1109 N00034 $FIXT FT=(F00045),GTO=((7A70,D))
1110+N00034 DC A(@FIXT)
1111+ DC A(F00045)
1112 N00035 $FIXT FT=(F00078),GTO=((7A76,F))
1113+N00035 DC A(@FIXT)
1114+ DC A(F00078)
1115 N00036 $FIXT FT=(F00033),GTO=((7A70,C))
1116+N00036 DC A(@FIXT)
1117+ DC A(F00033)
1118 N00037 $FIXT FT=(F00076),GTO=((7A72,F))
1119+N00037 DC A(@FIXT)
1120+ DC A(F00076)
1121 N00038 $TUXX T7A02,8,0000000400000004,OF,QT=(Q00006),YES=N00054, X
1122+N00038 DC A(@TUXX)
1123+ DC AL2(N00054)
1124+ DC A(T7A02)
1125+ DC AL2(OF)
1126+ DC AL2(8)
1127+ DC X'0000000400000004'
1128+ ALIGN WORD
1129+ DC AL2(0)
1130+ DC C'AA'
1131+ ALIGN WORD
1132+ DC AL2(PARMARA)
1133 N00039 $TUXX T7A02,7,000000000000080,ON,QT=(Q00007),YES=N00053, X
1134+N00039 DC A(@TUXX)
1135+ DC AL2(N00053)
1136+ DC A(T7A02)
1137+ DC AL2(ON)
1138+ DC AL2(7)
1139+ DC X'000000000000080'
1140+ ALIGN WORD
1141+ DC AL2(0)
1142+ DC C'AA'
1143+ ALIGN WORD
1144+ DC AL2(PARMARA)
1145 N00040 $TUXX T7A02,7,00000000000008,ON,QT=(Q00007),YES=N00046, X
1146+N00040 DC A(@TUXX)
1147+ DC AL2(N00046)
1148+ DC A(T7A02)
1149+ DC AL2(ON)
1150+ DC AL2(7)
1151+ DC X'00000000000008'
1152+ ALIGN WORD
1153+ DC AL2(0)
1154+ DC C'AA'
1155+ ALIGN WORD
1156+ DC AL2(PARMARA)
1157 N00041 $TUXX T7A02,7,000080000000080,OF,QT=(Q00006),YES=N00043, X
1158+N00041 DC A(@TUXX)
1159+ DC AL2(N00043)
1160+ DC A(T7A02)
1161+ DC AL2(OF)
1162+ DC AL2(7)
1163+ DC X'000080000000080'
1164+ ALIGN WORD
1165+ DC AL2(0)
1166+ DC C'AA'
1167+ ALIGN WORD
1168+ DC AL2(PARMARA)
1169 N00042 $FIXT FT=(F00033),GTO=((7A70,C))
1170+N00042 DC A(@FIXT)
1171+ DC A(F00033)
1172 N00043 $TUXX T7A02,2,0001,OF,QT=(Q00006),YES=N00045,CT=(C00073)
1173+N00043 DC A(@TUXX)
1174+ DC AL2(N00045)
1175+ DC A(T7A02)
1176+ DC AL2(OF)
1177+ DC AL2(2)
1178+ DC X'00001'
1179+ ALIGN WORD
1180+ DC AL2(0)
1181+ DC C'AA'
1182+ ALIGN WORD
1183+ DC AL2(PARMARA)
1184 N00044 $FIXT FT=(F00080),GTO=((7A76,O))
1185+N00044 DC A(@FIXT)
1186+ DC A(F00080)
1187 N00045 $FIXT FT=(F00033),GTO=((7A70,C))
1188+N00045 DC A(@FIXT)
1189+ DC A(F00033)
1190 N00046 $TUXX T7A02,9,000000002000000020,OF,QT=(Q00006),YES=N00052, X
1191+N00046 DC A(@TUXX)
1192+ DC AL2(N00052)
1193+ DC A(T7A02)
1194+ DC AL2(OF)
1195+ DC AL2(9)
1196+ DC X'000000002000000020'
1197+ ALIGN WORD
1198+ DC AL2(0)
1199+ DC C'AA'
1200+ ALIGN WORD
1201+ DC AL2(PARMARA)
1202 N00047 $TUXX T7A02,7,000000000000020,ON,QT=(Q00007),YES=N00049, X
1203+N00047 DC A(@TUXX)
1204+ DC AL2(N00049)
1205+ DC A(T7A02)
1206+ DC AL2(OF)
1207+ DC AL2(7)
1208+ DC X'000000000000020'
1209+ ALIGN WORD
1210+ DC AL2(0)
1211+ DC C'AA'
1212+ ALIGN WORD
1213+ DC AL2(PARMARA)
1214 N00048 $FIXT FT=(F00052),GTO=((7A70,E))
1215+N00048 DC A(@FIXT)
1216+ DC A(F00052)
1217 N00049 $TUXX T7A02,8,0000002000000020,OF,QT=(Q00006),YES=N00051, X
1218+N00049 DC A(@TUXX)
1219+ DC AL2(N00051)

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Table with columns: LOCTR, OBJECT TEXT, STMT SOURCE STATEMENT, COPYRIGHT IBM CORP 1976. Contains technical specifications for FRU isolation, including part numbers like 002C1C, 002C22, and assembly instructions such as 'ALIGN WORD' and 'DC AL2(PARMARA)'. Includes 'X' markers for specific rows.

Table with columns: LOCTR, OBJECT TEXT, STMT SOURCE STATEMENT, COPYRIGHT IBM CORP 1976. Continuation of technical specifications for FRU isolation from the previous page, including part numbers like 002CF8, 002CFA, and assembly instructions such as '\$FIXT FT=(F00033),GTO=((7A70,C))'. Includes 'X' markers for specific rows.

Table with columns: LOCTR, OBJECT TEXT, STMT SOURCE STATEMENT, COPYRIGHT IBM CORP 1976. Contains assembly code for FRU isolation map.

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1904+ DC X'00000100000001'
002F6C 0000100000001
002F73 00
1905+ ALIGN WORD
002F74 0000
1906+ DC AL2(0)
002F76 C1C1
1907+ DC C'AA'
1908+ ALIGN WORD
002F78 196E
1909+ DC AL2(PARMARA)
1910 N00142 $FIXT FT=(F00076),GTO=((7A72,F))
002F7A 0101
1911+ N00142 DC A(@FIXT)
002F7C 3126
1912+ DC A(F00076)
1913 N00143 $TUXX T7A02,8,000000000000004,ON,QT=(Q00007),YES=N00145, X
002F7E 0500
1914+ N00143 DC A(@TUXX)
002F80 2E9A
1915+ DC AL2(N00145)
002F82 31C4
1916+ DC A(T7A02)
002F84 0200
1917+ DC AL2(ON)
002F86 0008
1918+ DC AL2(7)
002F88 0000000000000004
1919+ DC X'0000000000000004'
1920+ ALIGN WORD
002F90 0000
1921+ DC AL2(0)
002F92 C1C1
1922+ DC C'AA'
1923+ ALIGN WORD
002F94 196E
1924+ DC AL2(PARMARA)
1925 N00144 $FIXT FT=(F00082),GTO=((7A76,R))
002F96 0101
1926+ N00144 DC A(@FIXT)
002F98 30DA
1927+ DC A(F00082)
1928 N00145 $FIXT FT=(F00076),GTO=((7A72,F))
002F9A 0101
1929+ N00145 DC A(@FIXT)
002F9C 3126
1930+ DC A(F00076)
1931 N00146 $FIXT FT=(F00047),GTO=((7A70,B))
002F9E 0101
1932+ N00146 DC A(@FIXT)
002FA0 3166
1933+ DC A(F00047)
1934 N00147 $FIXT FT=(F00076),GTO=((7A72,F))
002FA2 0101
1935+ N00147 DC A(@FIXT)
002FA4 3126
1936+ DC A(F00076)
1937 N00148 $TUXX T7A02,2,0001,OF,QT=(Q00006),YES=N00154,CT=(C00073)
002FA6 0500
1938+ N00148 DC A(@TUXX)
002FA8 3EF4
1939+ DC AL2(N00154)
002FA 31C4
1940+ DC A(T7A02)
002FAC 0202
1941+ DC AL2(ON)
002FAE 0002
1942+ DC AL2(2)
002F8 0001
1943+ DC X'00001'
1944+ ALIGN WORD
002FB2 0000
1945+ DC AL2(0)
002FB4 C1C1
1946+ DC C'AA'
1947+ ALIGN WORD
002FB6 196E
1948+ DC AL2(PARMARA)
1949 N00149 $TUXX T7A02,8,000000000000004,ON,QT=(Q00007),YES=N00153, X
002FB8 0500
1950+ N00149 DC A(@TUXX)
002FBA 2FF0
1951+ DC AL2(N00153)
002FBC 31C4
1952+ DC A(T7A02)
002FBE 0200
1953+ DC AL2(ON)
002FC0 0008
1954+ DC AL2(8)
002FC2 0000000000000004
1955+ DC X'0000000000000004'
1956+ ALIGN WORD
002FCA 0000
1957+ DC AL2(0)
002FCC C1C1
1958+ DC C'AA'
1959+ ALIGN WORD
002FCE 196E
1960+ DC AL2(PARMARA)
1961 N00150 $TUXX T7A02,7,000040000000040,OF,QT=(Q00006),YES=N00152, X
002FD0 0500
1962+ N00150 DC A(@TUXX)
002FD2 2FEC
1963+ DC AL2(N00152)
002FD4 31C4
1964+ DC A(T7A02)
002FD6 0202
1965+ DC AL2(ON)
002FD8 0007
1966+ DC AL2(7)
002FDA 000040000000040
1967+ DC X'000040000000040'
002FE1 00
1968+ ALIGN WORD
002FE2 0000
1969+ DC AL2(0)
002FE4 C1C1
1970+ DC C'AA'
1971+ ALIGN WORD
002FE6 196E
1972+ DC AL2(PARMARA)
1973 N00151 $FIXT FT=(F00052),GTO=((7A70,E))
002FE8 0101
1974+ N00151 DC A(@FIXT)
002FEA 310C
1975+ DC A(F00052)
1976 N00152 $FIXT FT=(F00083),GTO=((7A76,U))
002FEC 0101
1977+ N00152 DC A(@FIXT)
002FEE 314C
1978+ DC A(F00083)
1979 N00153 $FIXT FT=(F00082),GTO=((7A76,R))
002FF0 0101
1980+ N00153 DC A(@FIXT)
002FF2 30DA
1981+ DC A(F00082)
1982 N00154 $FIXT FT=(F00047),GTO=((7A70,B))
002FF4 0101
1983+ N00154 DC A(@FIXT)
002FF6 3166
1984+ DC A(F00047)
1985 N00155 $TUXX T7A02,7,000020000000020,ON,QT=(Q00007),YES=N00165, X
002FF8 0500
1986+ N00155 DC A(@TUXX)
002FFA 3084
1987+ DC AL2(N00165)
002FFC 31C4
1988+ DC A(T7A02)
002FFE 0200
1989+ DC AL2(ON)
003000 0007
1990+ DC AL2(7)
003002 000020000000020
1991+ DC X'000020000000020'
003009 00
1992+ ALIGN WORD
00300A 0000
1993+ DC AL2(0)
00300C C1C1
1994+ DC C'AA'
1995+ ALIGN WORD
00300E 196E
1996+ DC AL2(PARMARA)
1997 N00156 $TUXX T7A02,8,000000000000080,ON,QT=(Q00007),YES=N00164, X
003010 0500
1998+ N00156 DC A(@TUXX)
003012 3080
1999+ DC AL2(N00164)
003014 31C4
2000+ DC A(T7A02)
003016 0200
2001+ DC AL2(ON)
003018 0007
2002+ DC AL2(7)
00301A 000000000000080
2003+ DC X'000000000000080'
003021 00
2004+ ALIGN WORD
003022 0000
2005+ DC AL2(0)
003024 C1C1
2006+ DC C'AA'
2007+ ALIGN WORD
003026 196E
2008+ DC AL2(PARMARA)
2009 N00157 $TUXX T7A02,8,0000000400000004,OF,QT=(Q00006),YES=N00163, X
003028 0500
2010+ N00157 DC A(@TUXX)
00302A 307C
2011+ DC AL2(N00163)
00302C 31C4
2012+ DC A(T7A02)
00302E 0202
2013+ DC AL2(ON)
003030 0008
2014+ DC AL2(8)
003032 0000000400000004
2015+ DC X'0000000400000004'
2016+ ALIGN WORD
00303A 0000
2017+ DC AL2(0)

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 LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976

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2018+ DC C'AA'
2019+ ALIGN WORD
2020+ DC AL2(PARMARA)
00303C C1C1
2021+ DC AL2(0)
00303E 196E
2022+ N00158 $TUXX T7A02,7,000080000000080,OF,QT=(Q00006),YES=N00160, X
2023+ DC A(@TUXX)
003040 0500
2024+ DC AL2(N00160)
003042 305C
2025+ DC A(T7A02)
003044 31C4
2026+ DC AL2(ON)
003046 0202
2027+ DC AL2(7)
003048 0007
2028+ DC X'000080000000080'
00304A 000080000000080
2029+ DC ALIGN WORD
003051 00
2030+ DC AL2(0)
003052 0000
2031+ DC C'AA'
003054 C1C1
2032+ ALIGN WORD
003056 196E
2033+ DC AL2(PARMARA)
2034+ N00159 $FIXT FT=(F00082),GTO=((7A76,R))
003058 0101
2035+ N00159 DC A(@FIXT)
00305A 30DA
2036+ DC A(F00082)
2037+ N00160 $TUXX T7A02,8,000000000000004,ON,QT=(Q00007),YES=N00162, X
00305C 0500
2038+ DC A(@TUXX)
00305E 3078
2039+ DC AL2(N00162)
003060 31C4
2040+ DC A(T7A02)
003062 0200
2041+ DC AL2(ON)
003064 0008
2042+ DC AL2(8)
003066 0000000000000004
2043+ DC X'0000000000000004'
003068 0000
2044+ ALIGN WORD
003070 C1C1
2045+ DC AL2(0)
2046+ DC C'AA'
2047+ ALIGN WORD
003072 196E
2048+ DC AL2(PARMARA)
2049+ N00161 $FIXT FT=(F00076),GTO=((7A72,F))
003074 0101
2050+ N00161 DC A(@FIXT)
003076 3126
2051+ DC A(F00076)
2052+ N00162 $FIXT FT=(F00082),GTO=((7A76,R))
003078 0101
2053+ N00162 DC A(@FIXT)
00307A 30DA
2054+ DC A(F00082)
2055+ N00163 $FIXT FT=(F00076),GTO=((7A72,F))
00307C 0101
2056+ N00163 DC A(@FIXT)
00307E 3126
2057+ DC A(F00076)
2058+ N00164 $FIXT FT=(F00076),GTO=((7A72,F))
003080 0101
2059+ N00164 DC A(@FIXT)
003082 3126
2060+ DC A(F00076)
2061+ N00165 $TUXX T7A02,2,0001,OF,QT=(Q00006),YES=N00169,CT=(C00073)
003084 0500
2062+ DC A(@TUXX)
003086 30B6
2063+ DC AL2(N00169)
003088 31C4
2064+ DC A(T7A02)
00308A 0202
2065+ DC AL2(ON)
00308C 0002
2066+ DC AL2(2)
00308E 0001
2067+ DC X'0001'
2068+ ALIGN WORD
003090 0000
2069+ DC AL2(0)
003092 C1C1
2070+ DC C'AA'
2071+ ALIGN WORD
003094 196E
2072+ N00166 $TUXX T7A02,7,000000000000080,ON,QT=(Q00007),YES=N00168, X
003096 0500
2073+ N00166 DC A(@TUXX)
003098 30B2
2074+ DC AL2(N00168)
00309A 31C4
2075+ DC A(T7A02)
00309C 0200
2076+ DC AL2(ON)
00309E 0007
2077+ DC AL2(7)
0030A0 000000000000080
2078+ DC X'000000000000080'
0030A2 00
2079+ ALIGN WORD
0030A4 0000
2080+ DC AL2(0)
0030A6 C1C1
2081+ DC AL2(0)
2082+ DC C'AA'
2083+ ALIGN WORD
0030AC 196E
2084+ N00167 $FIXT FT=(F00076),GTO=((7A72,F))
2085+ N00167 DC A(@FIXT)
2086+ DC A(F00076)
2087+ N00168 $FIXT FT=(F00033),GTO=((7A70,C))
0030AE 0101
2088+ N00168 DC A(@FIXT)
0030B0 3126
2089+ DC A(F00033)
2090+ N00169 $FIXT FT=(F00078),GTO=((7A76,F))
0030BE 0101
2091+ N00169 DC A(@FIXT)
0030B2 30F2
2092+ DC A(F00078)
0030B4 0000
2093+ DC AL2(DUMMY)
2094+ EQU *
2095+ *****
2096+ *****
2097+ *****
2098+ ** ENTRY POINT TABLE **
2099+ **
2100+ *****
2101+ *****
2102+ *****
2103+ ENTPT EP=I STEP=0001
2104+ DC CL2(I)
2105+ DC A(N00001)
2106+ DC AL2(DUMMY)
2107+ *****
2108+ *****
2109+ ** MESSAGE TABLE **
2110+ **
2111+ *****
2112+ *****
2113+ F00075 EQU *
2114+ DC AL2(0001)
2115+ DC A(0008)
2116+ DC CL0008'MAP7A72E'
2117+ F00081 EQU *
2118+ DC AL2(0001)
2119+ DC A(0008)
2120+ DC CL0008'MAP7A76Q'
2121+ F00082 EQU *
2122+ DC AL2(0001)
2123+ DC A(0008)
2124+ DC CL0008'MAP7A76R'
2125+ F00077 EQU *
2126+ DC AL2(0001)
2127+ DC A(0008)
2128+ DC CL0008'MAP7A72P'
2129+ F00078 EQU *
2130+ DC AL2(0001)
2131+ DC A(0008)

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LOCTR OBJECT TEXT STMT SOURCE STATEMENT
0030F6 D4C1D7F7C1F7F6C6 2132 DC CL0008*MAP7A76F*
0030F7 2133 EQU *
0030FE 0001 2134 DC AL2(0001)
003100 000A 2135 DC A(0010)
003102 D4C1D7F7C1F7F060C 2136 DC CL0010*MAP7A70-C *

LOCTR OBJECT TEXT STMT SOURCE STATEMENT
2249+CSTL4 DC A(*-*)
2250+CSTL5 DC A(*-*)
2251+CSTL6 DC A(*-*)
2252+CSTL7 DC A(*-*)
2253+CSTL8 DC A(*-*)

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000009 2368 BS9 EQU 9
00000A 2369 BS10 EQU 10
00000B 2370 BS11 EQU 11
00000C 2371 BS12 EQU 12
00000D 2372 BS13 EQU 13
00000E 2373 BS14 EQU 14
00000F 2374 BS15 EQU 15
2375 COPY T7A00DCB 23JAN78
2376 ** (T7A00DCB)
2377 *****4/28/77*****
2378 *
2379 * DCB TABLES AND DC'S
2380 *
2381 *
2382 *
2383 *****
2384 *
2385 ***** DIAGNOSTIC DCB *****
2386 *
2387 DGDCB DC X'2008' DIAGNOSTIC DCB
2388 DC A(*-*) FLAG / PHYSICAL SECTOR#
2389 DC A(*-*) HEAD / CYLINDER#'S
2390 DC X'0000' NOT USED
2391 DC A(RSBA) RSB ADDRESS
2392 DC A(*-*) CHAINING ADDRESS
2393 DC X'0100' BYTE COUNT
2394 DC A(*-*) DATA ADDRESS
2395 *
2396 ***** RECALIBRATE DCB *****
2397 *
2398 CLDCB DC X'0001' RECALIBRATE DCB
2399 DC 7A(*-*)
2400 *
2401 ***** WRITE SECTOR ID *****
2402 *
2403 WSDCB DC X'002D' WRITE SECTOR ID CNTL WORD
2404 DC A(*-*) FLAG / PHYSICAL SECTOR#
2405 DC A(*-*) HEAD / CYLINDER#'S
2406 DC X'0000' NOT USED
2407 DC A(RSBA) RSB ADDRESS
2408 DC A(*-*) CHAIN ADDRESS
2409 DC X'0004' BYTE COUNT
2410 DC A(WFSID) ADDR OF SECTOR ID DATA
2411 *
2412 ***** READ SECTOR ID DCB *****
2413 *
2414 RSDCB DC X'201C' READ SECTOR ID CNTL WORD
2415 DC A(*-*) FLAG / PHYSICAL SECTOR#
2416 DC X'0000' HEAD / CYLINDER#'S
2417 DC X'0000' NOT USED
2418 DC A(RSBA) RSB ADDRESS
2419 DC A(*-*) CHAIN ADDRESS
2420 DC X'0004' BYTE COUNT FOR READ SECTOR ID
2421 DC A(SCTID) SECTOR ID DATA ADDRESS
2422 *
2423 ***** SEEK DCB *****
2424 *
2425 SKDCB DC X'0000' SEEK DCB CONTROL WORD
2426 DC A(*-*) NOT USED
2427 DC A(*-*) HEAD / CYLINDER#'S
2428 DC X'0000' NOT USED
2429 DC A(RSBA) RSB ADDRESS
2430 DC A(*-*) CHAIN ADDRESS
2431 DC X'0000' NOT USED
2432 DC X'0000' NOT USED
2433 *
2434 ***** CYCLE STEAL STATUS DCB *****
2435 *
2436 CSDCB DC X'2000' CONTROL WORD
2437 DC F'0' NOT USED
2438 DC F'0' NOT USED
2439 DC F'0' NOT USED
2440 DC F'0' NOT USED
2441 DC F'0' NOT USED
2442 DC X'001A' 13 WORDS OF STATUS
2443 DC A(CSBUF) ADDRESS OF CYCLE STEAL STATUS DATA
2444 *
2445 ***** WRITE DCB *****
2446 *
2447 WRDCB DC X'0028' WRITE DATA DCB CNTL WORD
2448 DC A(*-*) FLAG / RECORD#
2449 DC A(*-*) HEAD / CYLINDER#'S
2450 DC A(*-*) SCAN / REPEAT COUNT
2451 DC A(RSBA) RSB ADDRESS
2452 DC A(*-*) CHAIN ADDRESS
2453 DC X'0100' BYTE COUNT
2454 DC A(*-*) WRITE DATA ADDRESS
2455 *
2456 ***** VERIFY DCB *****
2457 *
2458 VRDCB DC X'0019' CONTROL WORD
2459 DC A(*-*) FLAG / RECORD#
2460 DC A(*-*) HEAD / CYLINDER#'S
2461 DC A(*-*) SCAN / REPEAT COUNT
2462 DC A(RSBA) RSB ADDRESS
2463 DC A(*-*) CHAIN ADDRESS
2464 DC A(*-*) BYTE COUNT
2465 DC F'0' NOT USED
2466 *
2467 ***** READ DCB *****
2468 *
2469 RDDCB DC X'2018' READ DCB CONTROL WORD
2470 DC A(*-*) FLAG / RECORD#
2471 DC A(*-*) HEAD / CYLINDER#'S
2472 DC A(*-*) SCAN / REPEAT COUNT
2473 DC A(RSBA) RSB ADDRESS
2474 DC A(*-*) CHAIN ADDRESS
2475 DC X'0100' BYTE COUNT
2476 DC A(*-*) READ DATA ADDRESS
2477 *
2478 ***** WRITE SECTOR ID SKEWED *****
2479 *
2480 WKDCB DC X'002F' CONTROL WORD
2481 DC A(*-*) FLAG / PHYSICAL SECTOR#
2482 DC A(*-*) HEAD / CYLINDER#'S

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
003262 0000 2483 DC F'0' NOT USED
003264 32A6 2484 DC A(RSBA) RSB ADDRESS
003266 0000 2485 DC A(*-*) CHAIN ADDRESS
003268 0004 2486 DC X'0004' BYTE COUNT
00326A 329A 2487 DC A(WRSID) ADDR OF SECTOR ID DATA
2488 *
2489 ***** RFAD SECTOR ID SKEWED *****
2490 *
2491 RKDCB DC X'201D' CONTROL WORD
2492 DC A(*-*) FLAG / PHYSICAL SECTOR#
2493 DC A(*-*) HEAD / CYLINDER#'S
2494 DC F'0' NOT USED
2495 DC A(RSBA) RSB ADDRESS
2496 DC A(*-*) CHAIN ADDRESS
2497 DC X'0004' BYTE COUNT
2498 DC A(SCTID) SECTOR ID DATA ADDRESS
2499 *
2500 ***** READ MULTIPLE SECTOR IDS *****
2501 *
2502 RMDCB DC X'201C' CONTROL WORD
2503 DC A(*-*) FLAG / PHYSICAL SECTOR#
2504 DC A(*-*) HEAD / CYLINDER#'S
2505 DC F'0' NOT USED
2506 DC A(RSBA) RSB ADDRESS
2507 DC A(*-*) CHAIN ADDRESS
2508 DC X'0084' BYTE COUNT
2509 DC A(IDOO) DATA AREA ADDRESS
2510 *
2511 * CONSTANTS AND DEFINED STORAGE LOCATIONS
2512 ZERO DC X'0000' CONSTANT ZERO
2513 ONE DC X'0001' CONSTANT ONE
2514 RAY DC A(*-*) WRITE PARAMETER POINTER
2515 WDATA DC X'EB6D' WRITE DATA
2516 *
2517 LGSEC DC X'000D' LOGICAL SECTOR #
2518 PHYSC DC X'0000' CONVERTED PHYSICAL SEC #
2519 WRSID DC X'0000' FLAG SECTOR (WRT SECTOR ID DATA)
2520 DC X'0000' HEAD / CYLINDER
2521 WSIDT DC X'FF34' WRITE SECTOR ID TEST DATA
2522 DC X'5678' *
2523 SCTST DC X'0000' READ SECTOR ID TEST DATA BUFFER
2524 DC X'0000' *
2525 RSBA DC 6A(*-*) RESIDUAL STATUS BLOCK
2526 CTRO2 DC X'0000' COUNTER
2527 CTRO3 DC X'0000' COUNTER
2528 IDOO DC X'0000' ID ADDRESS TO BE SET BY USER
2529 PDATA DC X'1010' WRITE DIAG WORD 1 DATA PATTERNS
2530 DC X'5555' *
2531 DC X'AAAA' *
2532 DC X'FFFF' *
2533 *
2534 *****4/06/77*****
2535 *
2536 * SUBROUTINE
2537 *
2538 * PURPOSE
2539 *
2540 * COMPARE READ SECTOR ID DATA TO WRITE SECTOR ID DATA
2541 *
2542 * CALLING SEQUENCE
2543 *
2544 * BAL CMPRW,R6 (NORMAL)
2545 *
2546 * RETURN
2547 *
2548 * BXS (R6,2) - NORMAL
2549 *
2550 *
2551 *****
2552 *
2553 CMPRW MVWI 4,R7 COMPARE BYTE COUNT
2554 MVA SCTID,R3 ADDR OF RD SEC ID DATA
2555 MVA WRSID,R5 ADDR OF WR SEC ID DATA
2556 CFNEN (R3),(R5) COMPARE ID DATA
2557 BE (R6,2) BCH IF WRITE ID DATA OK
2558 B (R6)* COMPARE ERROR
2559 *****
2560 *
2561 * EXECUTE INPUT & OUTPUT COMMANDS
2562 * TO EXECUTE ALL I/O COMMANDS FROM A COMMON PLACE.
2563 * EACH OF THESE ENTRIES SET R7 WITH THE ADRS OF ITS PARAMETER
2564 * LIST AND ANY SPECIAL SWITCHES BEFORE BRANCHING TO THE
2565 * SUPVR CALL.
2566 *
2567 * THIS SUBROUTINE WILL CHECK FOR THE FOLLOWING:
2568 * 1. LOST INTERRUPTS BY TIMING OUT A COUNTING LOOP
2569 * 2. ERROR INTERRUPTS RECEIVED FROM SUPVR
2570 *
2571 *
2572 * THIS ROUTINE HAS THE FOLLOWING ENTRIES:
2573 *
2574 * 1 BAL \$RKEW,R6 READ SECTOR ID SKEWED
2575 * 2 BAL \$WKEW,R6 WRITE SECTOR ID SKEWED
2576 * 3 BAL \$WSEC,R6 WRITE SECTOR ID
2577 * 4 BAL \$DIAG,R6 DIAGNOSTIC
2578 * 5 BAL \$XIOCS,R6 CYCLE STEAL STATUS
2579 * 6 BAL \$SEEK,R6 SEEK
2580 * 7 BAL \$RECL,R6 RECALIBRATE
2581 * 8 BAL \$RDID,R6 READ SECTOR ID
2582 * 9 BAL \$RD,R6 READ
2583 * 10 BAL \$RDVY,R6 READ VERIFY
2584 * 11 BAL \$WRT,R6 WRITE
2585 * 12 BAL \$RDIM,R6 READ MULTI SECTOR IDS

LOC TR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
2598 *
2599 *****
2600 *
2601 \$SEEK MVA SKDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
2602 J XIO
2603 *
2604 \$RECL MVA CLDCB,IODCB SET UP BLOCK FOR SVC CALL
2605 J XIO
2606 *
2607 \$RDID MVA RSDCB,IODCB SET UP BLOCK FOR SVC CALL
2608 MVB I X'BB',R3 SET BUFFER TO B'S
2609 MVA SCTID,R5 SETUP READ SECTOR ID BUFFER ADRS
2610 MVWI 4,R7 SETUP BUFFER LENGTH
2611 FPN R3,(R5) INIT READ SECTOR ID BUFFER
2612 MVA SCTID,RSDCB+14 DATA ADDR
2613 J XIO
2614 *
2615 \$RDIM MVA RMDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
2616 MVWI 132,R7 SET BUFFER LENGTH
2617 MVA ID00,R5 SET BUFFER ADDRESS
2618 MVB I X'BB',R3 SET CLEAR CHARACTERS
2619 FPN R3,(R5) CLEAR THE BUFFER
2620 J XIO
2621 *
2622 \$RD MVB I X'FF',R3 SETRD BUFFER TO ALL F'S
2623 MVW RDDCB+14,R5 SET UP READ BUFFER ADRS
2624 MVW RDDCB+12,R7 SET UP BUFFER LENGTH
2625 FPN R3,(R5) CLEAR READ BUFFER
2626 \$RDS MVA RDDCB,IODCB SET UP BLOCK FOR SVC CALL
2627 J XIO
2628 *
2629 \$RDVY MVA VRDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
2630 J XIO
2631 *
2632 \$WRT MVA WRDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
2633 J XIO
2634 *
2635 \$RKEW MVA RKDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
2636 MVB I X'BB',R3 SET BUFFER TO B'S
2637 MVA SCTID,R5 SETUP READ SECTOR ID BUFFER ADRS
2638 MVWI 4,R7 SETUP BUFFER LENGTH
2639 FPN R3,(R5) INIT READ SECTOR ID BUFFER
2640 MVA SCTID,RKDCB+14 DATA ADDR
2641 J XIO
2642 *
2643 \$WKEW MVA WKDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
2644 MVA WRSID,WKDCB+14 DATA ADDR
2645 J XIO
2646 *
2647 \$WSEC MVA WSDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
2648 MVA WRSID,WSDCB+14 DATA ADDR
2649 J XIO
2650 *
2651 \$DIAG MVA DGDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
2652 J XIO
2653 *
2654 \$WRT0 MVW R6,LSTIO SAVE IAR FOR RETRY IF REQUESTED
2655 MVB I 255,R3 CLEAR CYCLE STATUS BUFFER
2656 MVA CSBUF,R5 * TO ALL ONES *
2657 MVB I 22,R7 *
2658 FPN R3,(R5) *
2659 MVA DCBUF,R5 CLEAR DCB BUFFER TO ALL ONES
2660 MVB I 16,R7 *
2661 FPN R3,(R5) *
2662 MVWI X'0708', \$IOIN OVERLAY OLD CONDITION CODES
2663 MVWZ \$ISB,R3 ZERO OUT OLD ISB VALUE
2664 TBTR (R4,IN) CLEAR INTERRUPT RECEIVED CNTL BIT
2665 TBTR (R4,ER) RESET ANY ERROR BEFORE I/O COMMAND
2666 TBTS (R4,XI) SET EXPECTED INTR CONTROL BIT
2667 MVA IOBLK,R7 SET UP CONTROL BLK FOR SUPR
2668 MVB IOMOD+1,R0 GET IDCBL FUNC/MODIFIER
2669 RBTWI X'00F0',IOMOD REMOVE FUNCTION FROM 'IOMOD'
2670 SRL 4,R0 RIGHT JUSTIFY FUNCTION BITS IN R0
2671 CBI 5,R0 IDCBL FUNCTION = 5?
2672 JE \$WRT1 YES - ISSUE 'SVC WRTT1'
2673 SVC WRTT0 ISSUE WRITE DPC '4X' OP
2674 B XIO8-4 GO WAIT FOR THE INTERRUPT
2675 WRTT1 B WRTT1 ISSUE WRITE DPC '5X' OP
2676 SVC XIO8-4 GO WAIT FOR THE INTERRUPT
2677 *
2678 \$DGWR MVA WRDCB,IODCB SET UP CONTROL BLK FOR SVC CALL
2679 B XIODG ISSUE START CS DIAG CMD
2680 *
2681 \$DGRD MVA RDDCB,IODCB SET UP CONTROL BLK FOR SVC CALL
2682 MVW RDDCB+12,R7 GET NO. OF BYTES TO CLEAR
2683 MVW RDDCB+14,R5 ADDR OF READ BUFFER
2684 MVB I X'FF',R3 CLEAR TO F'S
2685 FPN R3,(R5) *
2686 B XIODG ISSUE START CS DIAG CMD
2687 COPY T7AXEQ 09MAR78
2688 PRINT OFF
2689 T7AXEQ
2690 *
2691 *****29JUL76**
2692 *
2693 *
2694 *
2695 *
2696 *
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2700 *
2701 *
2702 *
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LOC TR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
3276** 6. WHEN THE SUPVR RETURNS AFTER ISSUING THE I/O COMMAND, TIMING
3277** STARTS TO DETERMINE A LOST INTERRUPT.
3278** 7. EXCEPT THE INTERRUPT AND GATHER INFORMATION TO DETERMINE IF IT
3279** WAS AN ERROR OR OKAY AND EXIT OFF THE INTERRUPT LEVEL.
3280** 8. CHECK IF THERE WAS A WRONG INTERRUPT LEVEL.
3281** 9. CHECK IF AN ERROR WAS EXPECTED AND IF THERE WAS RETURN.
3282** 10. CHECK IF THERE WAS AN ERROR CONDITION, IF NOT RETURN.
3283** 11. CHECK TO SEE IF THE EXERCISER IS TO BE TERMINATED.
3284** 12. CHECK IF A CYCLE STEAL OPERATION WAS IN PROGRESS THAT WAS
3285** ISSUED BY THIS SUBROUTINE.
3286** 13. CHECK THE ISB BITS THAT ARE ON. IF BIT 0 IS ON, ISSUE A
3287** CYCLE STEAL STATUS COMMAND. CHECK FOR ANY OTHER BIT BEING ON,
3288** COUNT IT AND SET UP THE PROPER ERROR MESSAGE TO BE PRINTED.
3289**
3290** CALLING SEQUENCE
3291**
3292** THIS ROUTINE HAS THE FOLLOWING ENTRIES:
3293**
3294** --> BAL XIO OR XEQ ANY CYCLE STEAL COMMAND, MOD=0
3295** --> BAL XIO1 MOD PARM PRELOADED IN 'IOMOD'
3296** --> BAL XIOCS,R6 OR XEQ START CYCLE STEAL STATUS, MOD=F
3297** --> BAL XIOCS-4,R6 AUTO CS STATUS (FOLLOWING OTHER XIO
3298** AND DOES NOT POST INTERRUPT STATUS)
3299**
3300** RETURN CONTROL
3301**
3302** BXS (R6,2) RETURN TO USER NO ERROR
3303** OR B (R6,*) RETURN AND RETRY ON ERROR
3304** ***** RETURN AND RETRY ON ERROR *****
3305** ***** RETURN AND RETRY ON ERROR *****
3306** XIO MVWZ IOMOD,R3 SET NOF OF 0 FOR CYCLE STEAL OF
3307** J XIO1 CS I/O'S ARE NOT RETRIED
3308**
3309** XIODG MVWI X'000D',IOMOD SET MODIFIER FOR DIAGNOSTIC OPS
3310** J XIO1 GO TO CS OPS
3311**
3312** TBTR (R4,CE) RESET CS STATUS INTER ERROR INDICAT.
3313** TBTS (R4,CS) SET 'CYCLE STEAL STATUS' IN PROGRESS
3314** XIOCS MVA CSDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
3315** MVWI X'000F',IOMOD SET CYCLE STEAL MODIFIER
3316** TBTR (R4,CS) IS CS IN PROGRESS, ERROR CONDITION
3317** JXIO1 * YES, BYPASS SAVING I/O ADRS
3318** XIO1 MVW R6,LSTIO SAVE IAR FOR RETRY IF REQUESTED
3319** MVA DCBUF,R3 SET UP TO ADRS TO MOVE DCB TABLE
3320** MVW IODCB,R5 * AND THE FROM ADRS, ALONG WITH
3321** MVB I 26,R7 * THE NUMBER OF MOVES
3322** MVFN (R5),(R3) MOVE 1 STATUS WORD AND ADJUST
3323** MVB I 255,R3 CLEAR CYCLE STATUS BUFFER
3324** MVA CSBUF,R5 * TO ALL ONES *
3325** MVB I 26,R7 *
3326** FPN R3,(R5) *
3327** MVWI X'0708', \$IOIN OVERLAY OLD CONDITION CODES
3328** MVWZ \$ISB,R3 ZERO OUT OLD ISB VALUE
3329**
3330** TBTR (R4,ER) RESET ANY ERROR BEFORE I/O COMMAND
3331** XIO2 TBTR (R4,IN) CLEAR INTERRUPT RECEIVED CNTL BIT
3332** MVA IOBLK,R7 SET UP CONTROL BLOCK FOR SUPR
3333** TBTR (R4, \$IE) RESET LEVEL ERROR INDICATOR
3334** TBTS (R4,XI) SET EXPECTED INTR CONTROL BIT
3335** SVC START CALL SUPVR FOR I/O COMMAND
3336**
3337** TBTR (R4,NI) IS AN INTR EXPECTED
3338** BN (R6,2) * NO, RETURN TO USER
3339**
3340** THE INTR SHOULD OCCUR WHILE SPINNING IN THE NEXT SECTION
3341**
3342** MVWI 0,R5 SET UP WORK REG FOR 'LOST INTR'
3343** XIO8 TBTR (R4,IN) HAS INTERRUPT BEEN RECEIVED
3344** JON XIOCK * YES, CHECK IF ALL WAS SATISFACTORY
3345** SVC IDLE ALLOW ANOTHER PROGRAM A CHANCE TO RUN
3346** SUPVR WILL RETURN HERE
3347** SVC IDLE ALLOW ANOTHER PROGRAM A CHANCE TO RUN
3348** SUPVR WILL RETURN HERE
3349** AWI 1,R5 ADVANCE TIME OUT COUNT
3350** JNZ XIO8 BCH IF TIME OUT NOT REACHED
3351** TBTS (R4,ER) SET ON ERROR CONTROL BIT
3352** B (R6,*) ERR NO INTERRUPT
3353** *****03FEB76**
3354** *****
3355**
3356** SUBROUTINE
3357**
3358** I/O EXECUTE ERROR HANDLING ROUTINE
3359**
3360** PURPOSE
3361**
3362** THIS ROUTINE WILL COLLECT INFORMATION TO HELP DETERMINE THE
3363** PROBLEM THAT WAS FOUND WHEN THE I/O COMMAND WAS ISSUED BY THE
3364** SUPERVISOR AND IT WAS NOT ACCEPTED.
3365**
3366** CALLING SEQUENCE
3367**
3368** SUPVR WILL ENTER WHEN AN ERROR OCCURS ON AN I/O COMMAND
3369**
3370** RETURN CONTROL
3371**
3372** B (R6)* RETURN TO USERS ERROR HANDLER
3373**
3374** *****
3375**
3376** CC 0= DEVICE NOT ATTACHED
3377** FOR 1= DEVICE BUSY
3378** I/O 2= DEVICE BUSY AFTER RESET
3379** 3= COMMAND REJECT
3380** 4= INTERVENTION REQUIRED
3381** 5= INTERFACE DATA CHECK
3382** 6= CONTROLLER BUSY
3383** 7= I/O COMMAND EXCEPTED
3384**
3385** XIOER CPLSR R3 COPY STATUS ANY LEVEL INTO R3
3386** SRL 13,R3 POSITION CC CODE TO BITS 13-15
3387** MVB R3, \$IOIN * PUT IN LOG OUT AREA
3388** B (R6,*) RETURN TO USER ERROR HANDLER
3389** *****14APR76**
3390** *****
3391**
3392** SUB-ROUTINE

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3393** ERROR INTERRUPT RUNS ON INTERRUPT LEVEL '\$INTL'
3394**
3395**
3396** PURPOSE
3397**
3398** THIS ROUTINE WILL BE ENTERED WHEN THE SUPVR DETECTS AN ERROR
3399** OR THE INTERRUPTING CONDITION CODE DOES NOT AGREE WITH THE
3400** EXPECTED CODE.
3401**
3402** CALLING SEQUENCE
3403**
3404** SUPVR WILL ENTER WHEN AN ERROR OCCURS ON AN I/O INTERRUPT
3405**
3406** RETURN CONTROL
3407**
3408** SVC EXIT RETURN TO USER VIA SUPVR
3409**
3410**
3411**
3412** CC 0= CONTROLLER END ISB 0= ADD STATUS
3413** FOR 1= PROGRAM CONTROL INTERRUPT BITS 1= COMD REJECT
3414** INTR 2= EXCEPTION INTERRUPT FOR 2= INCOR LENGTH
3415** 3= DEVICE END INTERRUPT INTR 3= DCB SPEC CK
3416** 4= ATTENTION INTERRUPT 4= STG DATA CK
3417** 5= ATTENTION / PROGRAM CNTL INTR 5= INV STG ADRS
3418** 6= ATTENTION / EXCEPTN INTR 6= PROTRCT CK
3419** 7= ATTENTION / DEVICE END INTR 7= I-FACE DATA
3420**
3421** INTER CPLSR R3 COPY STATUS ANY LEVEL INTO R3
3422** SRL 13,R3 POSITION INDICATORS IN R3
3423** MVA OPTN1,R4 SET UP BASE ADRS
3424** TBT (R4,CS) IS CS IN PROGRESS
3425** JOFF INTES * NO
3426** TBTS (R4,CE) TURN ON CYCLE STEAL INTER ERROR
3427** MVW R7,DEV4 SAVE CS ERR ISB VALUE, BITS 0-7
3428** MVB R3,DEV4+1 * AND THE COND CODE
3429** J INTR1
3430** INTES TBT (R4,XE) TEST EXPECTED ATTN / ERROR IND
3431** JOFF INTET ECH IF NOT EXPECTED
3432** CBT 4,R3 IS THIS AN 'ATTENTION' INTR
3433** JE INTR1 * YES, BCH TO END INTR SEQUENCE
3434** INTET TBTS (R4,ER) SET ERROR ON I/O COMMAND CNTL BIT
3435** J INTR1
3436** THE ERROR INTERRUPT USES THE SAME
3437** ENDING SEQUENCE AS THE NORMAL INTR
3438**
3439**
3440**
3441** SOUBROUTINE
3442**
3443** OKAY INTERRUPT RUNS ON INTERRUPT LEVEL '\$INTL'
3444**
3445** PURPOSE
3446**
3447** TO CHECK THE INTERRUPT AND CONTINUE THE TEST
3448**
3449** CALLING SEQUENCE
3450**
3451** SUPERVISOR WILL ENTER HERE IF INTR CC IS AS REQUESTED
3452** THE ERROR INTERRUPT HANDLER WILL BRANCH TO THIS ROUTINE
3453** AFTER THE SPECIAL PART HAS BEEN COMPLETED AND THE
3454** COMMON SECTION IS HANDLED HERE.
3455**
3456** RETURN CONTROL
3457**
3458** SVC EXIT RETURN TO USER VIA SUPVR
3459**
3460**
3461** INTOK CPLSR R3 COPY STATUS ANY LEVEL INTO R3
3462** SRL 13,R3 POSITION INDICATORS IN R3
3463** MVA OPTN1,R4 SET UP BASE ADRS
3464** INTR1 TBTS (R4,IN) SET INTERRUPT RECEIVED
3465** TBT (R4,CS) IS 'CS IN PROGRESS' ON
3466** JON INTR2 * YES, BCH AROUND UPDATE
3467** MVB R3,\$IOIN+1 SAVE INTERRUPTING CC CODE
3468** MVW R7,\$ISB SAVE INTR STATUS AND DEV ADRS
3469** INTR2 EQU R7
3470** CPCL R5 CURRENT LEVEL COPIED BY DCP
3471** SLL 4,R5 POSITION INTR LEVEL AND PUT
3472** ABI 1,R5 * IN 'I' BIT
3473** CW \$INTL,R5 IS THIS THE CORRECT INTR LEVEL
3474** JE INTR3 * YES, GO EXIT THIS LEVEL
3475** TBTS (R4,\$LE) SET INTR LEVEL ERROR CONTROL BIT
3476** TBTS (R4,ER) SET ERROR ON I/O COMMAND CNTL BIT
3477** INTR3 TBTR (R4,XI) WAS INTERRUPT EXPECTED
3478** JON INTRX * YES, EXIT OFF THIS INTR LEVEL
3479** TBT (R4,MI) * NO, SET MYSTERY INTR CONTROL BIT
3480** CBT 4,R3 ATTENTION INTERRUPT?
3481** JE INTRX YES
3482** TBTS (R4,NG) ERROR, UNEXPECTED INTERRUPT
3483** INTRX SVC EXIT EXIT THIS LEVEL VIA SUPVR TO PGM
3484**
3485**
3486**
3487** THIS IS THE CONTINUATION OF EXECUTE I/O AFTER THE INTERRUPT
3488** HAS BEEN SERVICED. THE EXERCISER FINDS AN INTERRUPT HAS BEEN
3489** RECEIVED AND BRANCHES HERE TO CHECK FOR ANY ERROR CONDITIONS.
3490**
3491**
3492** XIOCK TBTR (R4,XE) WAS AN ERROR EXPECTED
3493** BN (R6,2) * YES, EXIT THIS ROUTINE
3494** TBTR (R4,CS) WAS AUTO CS IN PROGRESS
3495** JOFF XIOCV * NO, CONTINUE CHECKING
3496** TBT (R4,CE) IS CS IN AN ERR CONDITION
3497** JOFF XIOCO * NO, BCH
3498** B (R6)* CS ERROR
3499** XIOCO TBTS (R4,CSA) TURN ON CS STATS AVAIL FLAG
3500** BXS (R6,2) GO TO USER
3501** XIOCV TBT (R4,ER) WAS ERROR INTR CONTROL BIT ON
3502** JOFF XIOCX * NO, EXIT THIS ROUTINE
3503**
3504** MVB \$IOIN+1,R5 GET LAST INTR CC CODE
3505** CBI 2,R5 IS THIS CC=2
3506** JE XIOCO YES
3507** CBI 6,R5 IS THIS CC=6
3508** BNE (R6)* * NO, BCH TO ERROR HANDLER

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3509** XIOCO MVB \$ISE,R5 GET LAST ISB DATA BYTE AND IF CS
3510** BN XIOCS-4 * AVAILABLE, GO AND GET IT
3511** B (R6)* ERROR
3512** XIOCX MVWZ OPTN3,R3 CLEAR OUT OPTION 3 CNTL BITS
3513** BXS (R6,2) RETURN TO USER VIA REG 6
3514**
3515** I/O PARAMETER LIST
3516**
3517** IOBLK DC A (DEVADD) ADRS OF DEVICE ADRS
3518** DC A (XIOER) ERROR ROUTINE ADRS
3519** IODCB DC A (*-*) DCB ADRS OR LEVEL & INTR
3520** IOMOD DC A (*-*) MODIFIER
3521** DC A (*-*) ADRS OF LAST SVC CALL
3522** IORSP DC A (*-*) SECOND WORD OF LAST IDCB
3523**
3524** INTERRUPT CONTROL BLOCK FOR I/O COMMANDS
3525**
3526** INTBL DC A (DEVADD) ADRS OF DEVICE ADRS
3527** DC A (INTOK) INTERRUPT OK RETURN ADRS
3528** DC A (INTER) INTERRUPT ERROR ADRS
3529** INTCC DC X'0003' INTERRUPT CODE EXPECTED
3530**
3531**
3532**
3533** SUBROUTINE
3534**
3535** CONNECT INTERRUPT CONTROL BLOCK & PREPARE DEVICE
3536**
3537** PURPOSE
3538**
3539** TO CONNECT THE INTERRUPT CONTROL BLOCK TO THIS DEVICE AND
3540** PREPARE ON THE DESIRED INTERRUPT LEVEL AND TO ALLOW THE DEVICE
3541** TO INTERRUPT.
3542**
3543** CALLING SEQUENCE
3544**
3545** THIS SUBROUTINE HAS THE FOLLOWING ENTRIES:
3546**
3547** --> BAL \$CONC,R6 CLEAR DEV DEP STG AND CONNECT I/O BLK
3548** --> BAL \$CONP,R6 PREPARE DEVICE ONLY, ALREADY CONNECT
3549**
3550** RETURN CONTROL
3551**
3552** BXS (R6,2) RETURN TO USER VIA REG 6 IF OKAY
3553** OR B (R6)* IF THE DEVICE COULD NOT BE CONNECTED
3554**
3555**
3556** \$CONC MVB 6,R7 NUMBER OF BYTE TO CLEAR
3557** MVB 0,R3 * AND THE DATA TO USE
3558** MVA DEV1,R5 * ALONG WITH THE ADRS TO USE
3559** FBN R3,(R5)
3560** MVWZ OPTN3,R3 CLEAR OLD CONTROLS FOR NEW ROUTINE
3561** MVA INTBL,R7 SET R7 TO CONTROL BLOCK AND
3562** SVC CIBC * CONNECT IT TO THIS DEVICE
3563** BN (R6)* ERROR RETURN TO USER
3564**
3565** \$CONP MVW \$INTL,IODCB PUT IN LEVEL & INTR PARAMETER
3566** MVA IOBLK,R7 SET R7 TO CONTROL BLOCK TO PREPARE
3567** MVW X'0708', \$IOIN INITIALIZE CONDITION CODE STORAGE
3568** MVWZ \$ISB,R3 * AND CLEAR OLD ISB VALUE
3569** MVW R6,LSTIO SET UP ADDRESS THAT STARTED LAST I/O
3570** SVC * AND CALL ON SUPVR
3571** BXS (R6,2) RETURN TO USER
3572**
3573**
3574**
3575** SUBROUTINE
3576**
3577** DISCONNECT THE INTERRUPT CONTROL BLOCK AND LOG ERRORS
3578**
3579** PURPOSE
3580**
3581** DISCONNECT THE INTERRUPT CONTROL BLOCK TO THIS DEVICE AND
3582** SET THE 'NO GOOD' CONTROL BIT, THEN LOG THE DATA THAT HAS
3583** BEEN FOUND TO HELP THE OPERATOR DEFINE THE ERROR CONDITION.
3584**
3585** CALLING SEQUENCE
3586**
3587** THIS SUBROUTINE HAS THE FOLLOWING ENTRIES:
3588**
3589** --> B \$ERR\$ SET 'NG' BIT AND CONVERT DATA TO LOG
3590** --> B \$CONX RETURN TO MDI SUPERVISOR TO TEST STS
3591**
3592** RETURN CONTROL
3593**
3594** OR B TURTN* RETURN TO MDI
3595** B (R6)* IF THE DEVICE COULD NOT BE CONNECTED
3596**
3597**
3598** \$ERR\$ MVW X'8000',TUSTATUS SET ON 'NO GOOD' STATUS BIT
3599** MVA HEBLK,R7 GET ADRS OF CONTROL BLOCK
3600** SVC HTOE CONVERT HEX TO EBC VIS DCP
3601** MVW X'4040',TUWORK+116
3602** MVW X'4040',TUWORK+118
3603** MVW X'4040',TUWORK+120
3604** \$PRNT MVB 4,R5
3605** MVA TUWORK,R3 SET UP BUFFER STORAGE
3606** MVW R3,BUPPT
3607** MVA LINE1,R1
3608** MVB 4,R7
3609** MVB 8,R6
3610** MVB (R3),(R1)
3611** MVB 4,R7
3612** MVB X'40',R2
3613** MVB R2,(R1)+
3614** JCT MVB,R6
3615** MVB 8,R6
3616** AWI 4,R1
3617** JCT MVB,R5
3618** MVW PIDMSG10,PID+2
3619** MVA PAKETU,@DCADD1
3620** MVA DC2PT,@DCADD2
3621** OWI BT0080,SUPSTAT
3622** MVA \$TUID,R3 SET UP BUFFER STORAGE
3623** BAL TUMSGWTR*,R7 GO TO MESSAGE WRITER
3624**

LOCTR OBJECT TEXT STMT SOURCE STATEMENT

003594 3625+\$CONX EQU *
003594 C720 19D0 3626+ MVB DEVADD,R7 GET DEVICE ADDRESS FROM MDI
003598 6013 3627+ SVC RICB RELEASE INTERRUPT CONTROL BLOCK
00359A 6812 31BC 3628+ B TURTN* RETURN TO MDI SUPERVISOR

00359E 0009 3630+BEGIN DC A(0009) NUMBER OF LINES TO PRINT
0035A0 0008 3631+ DC A(0008) LINE LENGTH = 8 CHAR
0035A2 5C5C 40C1C2D6D9E3 3632+ DC C'*** ABORT'
0035A4 0028 3633+ DC A(0040) LINE LENGTH = 40 CHAR
0035AC E3E4C9C440C9D6C9D 3634+ DC C'TUID IOIN ISB INST SECT ID DATA C'***
0035D4 0028 3635+ DC A(0040) LINE LENGTH = 40 CHAR
0035D6 4040404040404040 3636+LINE1 DC C' LINE LENGTH = 40 CHAR
0035FE 0028 3637+ DC A(0040) LINE LENGTH = 40 CHAR
003600 C3D5E3D340C4C3C2F 3638+ DC C'CNTRL DCB1 DCB2 DCB3 LINE LENGTH = 40 CHAR
003628 0028 3639+ DC A(0040) LINE LENGTH = 40 CHAR
00362A 4040404040404040 3640+LINE2 DC C' LINE LENGTH = 40 CHAR
003652 0028 3641+ DC A(0040) LINE LENGTH = 40 CHAR
003654 C3E260F040C3E260F 3642+ DC C'CS-0 CS-1 CS-2 CS-3 LINE LENGTH = 40 CHAR
00367C 0028 3643+ DC A(0040) LINE LENGTH = 40 CHAR
00367E 4040404040404040 3644+LINE3 DC C' LINE LENGTH = 40 CHAR
0036A6 0028 3645+ DC A(0040) LINE LENGTH = 40 CHAR
0036A8 C3E260F840C3E260F 3646+ DC C'CS-8 CS-9 CS-A CS-B LINE LENGTH = 40 CHAR
0036D0 0028 3647+ DC A(0040) LINE LENGTH = 40 CHAR
0036D2 4040404040404040 3648+LINE4 DC C' LINE LENGTH = 40 CHAR

0036FA 0000 3649+*
0036FC 359E 3650+BUFPT DC A(*-*)
0036FE 0101 3651+DC2PT DC A(BEGIN)
003700 0101 3652+FIXTU DC X'0101'
00F1F0 3653+FAKETU DC X'0101'
000080 3654+PIDMSG10 EQU X'F1F0'
3655+BIT0080 EQU X'0080'

3656+*
3657+* DATA CONTROL BLOCK FOR CONVERTING HEX TO EBCDIC
3658+*
3659+HEBLK DC A(58) NUMBER OF BYTES TO CONVERT
3660+ DC A(\$TUID) FROM ADRS
3661+ DC A(TUWORK) AND THE TO ADRS
3662 COPY T7A10 23JAN78
3663 T7A10 TUIT
3664+*****06FEB76**
3665+*
3666+* TEST UNIT
3667+*
3668+* ERROR HALT CODE/DIAG SENSE BYTE CHECK
3669+*
3670+* PURPOSE
3671+*
3672+* TO MOVE THE ERROR HALT CODE, STATUS BYTE, AND DIAG BYTES 1,2 3
3673+* TO THE TU RESULTS BUFFER (TURESUL).
3674+*
3675+* MDI=\$TUXX,T7A10,01,0708,EQ
3676+*
3677+* TURESUL BIT(S) 0-7 ERROR HALT CODE
3678+* 8-15 STATUS (SENSE) BYTE
3679+* 16-23 SINGLE SHOT BYTE 1 (5-HURSLEY)
3680+* 24-31 SINGLE SHOT BYTE 2 (6-HURSLEY)
3681+* 32-39 SINGLE SHOT BYTE 3 (7-HURSLEY)
3682+* 40-47 NOT USED
3683+* 48-55 MULTISAMPLE BYTE 1 (5-HURSLEY)
3684+* 56-63 MULTISAMPLE BYTE 2 (6-HURSLEY)
3685+* 64-71 MULTISAMPLE BYTE 3 (7-HURSLEY)
3686+* 72-79 MULTISAMPLE BYTE 3 (7-HURSLEY)
3687+* 80-87 WRAP BYTE
3688+* CALLING SEQUENCE
3689+*
3690+* MVW TUWRK,TURESUL MOVE ERROR HALT CODE & STATUS BYTES
3691+* MVD TUWRK+6,TURESUL+2 SINGLE SHOT BYTES 1, 2, AND 3
3692+* MVD TUWRK+10,TURESUL+6 MULTISAMPLE BYTES 1, 2, AND 3
3693+* AND WRAP BYTE
3694+* RETURN CONTROL
3695+*
3696+* B TURTN* RETURN TO MDI SUPERVISOR
3697+*
3698+*****
003708 6F0D 31BC 3699+T7A10 MVW R7,TUPTN SAVE RETURN ADDRESS
00370C 4020 317A 7A10 3700+ MVW X'7A10', \$TUID SAVE TU ID FOR DISPLAY
003712 4424 3174 3701+ MVA OPTN1,R4 SET UP POINTER ADRS IN R4
003716 6E03 34FE 3702+ BAL \$CONC,R6 CLEAR DEV DEP STG AND CONNECT I/O BL
00371A 3532 3703+ DC A(\$ERR\$) ERROR ADRS FOR INVALID PREP
3704+*
00371C 9028 181C 18D2 3705+ MVD TUWRK+2,TURESUL+10 MOVE ERROR WORDS 4,5
003722 8028 1827 18CD 3706+ MVB TUWRK+13,TURESUL+5 MOVE WRAP CHECK RESULTS
3707+* TXIT
003728 6802 3594 3708+ B \$CONX RETURN TO MDI CONTROLLER
000000 3709+*****
3711 END

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CROSS-REFERENCE LISTING

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DECLARED NAME ATTRIBUTES AND REFERENCES

3556 \$CONC ADDRESS. HEX LOCATION(000034FE) IN CSECT(I7A25) LENGTH(2)
3702
3625 \$CONX ADDRESS. HEX LOCATION(00003594) IN CSECT(I7A25) LENGTH(1)
3708
3598 \$ERR\$ ADDRESS. HEX LOCATION(00003532) IN CSECT(I7A25) LENGTH(6)
3703
2262 \$INTL ADDRESS. HEX LOCATION(000031BA) IN CSECT(I7A25) LENGTH(2)
3473 3565
2227 \$IOIN ADDRESS. HEX LOCATION(0000317C) IN CSECT(I7A25) LENGTH(2)
2662 3327 3387 3467 3504 3567
2228 \$ISB ADDRESS. HEX LOCATION(0000317E) IN CSECT(I7A25) LENGTH(2)
2663 3328 3468 3509 3568
2212 \$LE ABSOLUTE. HEX VALUE(00000026)
3333 3475
2226 \$TUID ADDRESS. HEX LOCATION(0000317A) IN CSECT(I7A25) LENGTH(2)
2272 3622 3660 3700
2675 \$WRT1 ADDRESS. HEX LOCATION(000033B6) IN CSECT(I7A25) LENGTH(2)
2672
102 @DCADD1 ADDRESS. HEX LOCATION(000019B8) IN CSECT(I7A25) LENGTH(1)
3619
103 @DCADD2 ADDRESS. HEX LOCATION(000019BA) IN CSECT(I7A25) LENGTH(1)
3620
39 @FIXT ABSOLUTE. HEX VALUE(00000101)
855 930 933 936 987 990 993 1008 1011
1014 1065 1068 1071 1110 1113 1116 1119 1170
1185 1188 1215 1230 1233 1236 1239 1242 1281
1284 1287 1302 1305 1332 1335 1350 1353 1404
1407 1422 1437 1440 1479 1482 1485 1488 1563
1578 1581 1584 1611 1614 1617 1644 1647 1650
1677 1680 1707 1710 1713 1764 1767 1818 1821
1836 1839 1842 1845 1896 1911 1926 1929 1932
1935 1974 1977 1980 1983 2034 2049 2052 2055
2058 2085 2088 2091
45 @TUXX ABSOLUTE. HEX VALUE(00000500)
823 843 858 870 882 894 906 918 939
951 963 975 996 1017 1029 1041 1053 1074
1086 1098 1122 1134 1146 1158 1173 1191 1203
1218 1245 1257 1269 1290 1308 1320 1338 1356
1368 1380 1392 1410 1425 1443 1455 1467 1491
1503 1515 1527 1539 1551 1566 1587 1599 1620
1632 1653 1665 1683 1695 1716 1728 1740 1752
1770 1782 1794 1806 1824 1848 1860 1872 1884
1899 1914 1938 1950 1962 1986 1998 2010 2022
2037 2061 2073
3630 BEGIN ADDRESS. HEX LOCATION(0000359E) IN CSECT(I7A25) LENGTH(2)
3651
3655 BIT0080 ABSOLUTE. HEX VALUE(00000080)
3621
3650 BUFPPT ADDRESS. HEX LOCATION(000036FA) IN CSECT(I7A25) LENGTH(2)
3606
2216 CE ABSOLUTE. HEX VALUE(0000002A)
3312 3426 3496
2301 CICB ABSOLUTE. HEX VALUE(00000014)
3562
2398 CLDCB ADDRESS. HEX LOCATION(000031DC) IN CSECT(I7A25) LENGTH(2)
2604
2214 CS ABSOLUTE. HEX VALUE(00000028)
3313 3316 3424 3465 3494
2215 CSA ABSOLUTE. HEX VALUE(00000029)
3499
2245 CSBUF ADDRESS. HEX LOCATION(0000319A) IN CSECT(I7A25) LENGTH(1)
2443 2656 3324
2436 CSDCB ADDRESS. HEX LOCATION(0000321C) IN CSECT(I7A25) LENGTH(2)
3314
2235 DCBUF ADDRESS. HEX LOCATION(0000318A) IN CSECT(I7A25) LENGTH(1)
2659 3319
3651 DC2PT ADDRESS. HEX LOCATION(000036FC) IN CSECT(I7A25) LENGTH(2)
3620
105 DEVADD ADDRESS. HEX LOCATION(000019D0) IN CSECT(I7A25) LENGTH(1)
2265 3517 3526 3626
2230 DEV1 ADDRESS. HEX LOCATION(00003182) IN CSECT(I7A25) LENGTH(2)
2234 3558
2233 DEV4 ADDRESS. HEX LOCATION(00003188) IN CSECT(I7A25) LENGTH(2)
3427 3428
2387 DGDCB ADDRESS. HEX LOCATION(000031CC) IN CSECT(I7A25) LENGTH(2)
2651
67 DUMMY ABSOLUTE. HEX VALUE(00000000)
822 2093 2105
2094 ENTPT ADDRESS. HEX LOCATION(000030BC) IN CSECT(I7A25) LENGTH(1)
198
2207 ER ABSOLUTE. HEX VALUE(00000021)
2665 3330 3351 3434 3476 3501
2287 EXIT ABSOLUTE. HEX VALUE(00000006)
3483
3653 FAKETU ADDRESS. HEX LOCATION(00003700) IN CSECT(I7A25) LENGTH(2)
3619
2161 F00010 ADDRESS. HEX LOCATION(00003158) IN CSECT(I7A25) LENGTH(1)
1708 1714
2133 F00033 ADDRESS. HEX LOCATION(000030FE) IN CSECT(I7A25) LENGTH(1)
991 1012 1117 1171 1189 1237 1285 1405 1564
1582 1615 2089
2149 F00045 ADDRESS. HEX LOCATION(00003132) IN CSECT(I7A25) LENGTH(1)
1111 1336 1618 1681 1897
2165 F00047 ADDRESS. HEX LOCATION(00003166) IN CSECT(I7A25) LENGTH(1)
1933 1984
2137 F00052 ADDRESS. HEX LOCATION(0000310C) IN CSECT(I7A25) LENGTH(1)
994 1009 1216 1231 1240 1819 1837 1975
2113 F00075 ADDRESS. HEX LOCATION(000030C2) IN CSECT(I7A25) LENGTH(1)
856
2145 F00076 ADDRESS. HEX LOCATION(00003126) IN CSECT(I7A25) LENGTH(1)
1069 1120 1282 1423 1438 1483 1486 1765 1822
1843 1912 1930 1936 2050 2056 2059 2086
2125 F00077 ADDRESS. HEX LOCATION(000030E6) IN CSECT(I7A25) LENGTH(1)
937 1288 1303 1333
2129 F00078 ADDRESS. HEX LOCATION(000030F2) IN CSECT(I7A25) LENGTH(1)
998 1114 1306 1846 2092
2153 F00079 ADDRESS. HEX LOCATION(00003140) IN CSECT(I7A25) LENGTH(1)
1480 1489
2141 F00080 ADDRESS. HEX LOCATION(0000311A) IN CSECT(I7A25) LENGTH(1)
1066 1186 1234
2117 F00081 ADDRESS. HEX LOCATION(000030CE) IN CSECT(I7A25) LENGTH(1)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
2121	F00082	931 1351 1579 1585 1678 1711 ADDRESS. HEX LOCATION(000030DA) IN CSECT(I7A25) LENGTH(1) 934 1015 1072 1243 1354 1408 1441 1645 1651
2157	F00083	1840 1927 1981 2035 2053 ADDRESS. HEX LOCATION(0000314C) IN CSECT(I7A25) LENGTH(1) 1612 1648 1768 1978
3659	HEBLK	ADDRESS. HEX LOCATION(00003702) IN CSECT(I7A25) LENGTH(2) 3599
2307	HTOE	ABSOLUTE. HEX VALUE(0000001A) 3600
2283	IDLE	ABSOLUTE. HEX VALUE(00000002) 3345 3347
2528	ID00	ADDRESS. HEX LOCATION(000032B6) IN CSECT(I7A25) LENGTH(2) 2509 2617
2209	IN	ABSOLUTE. HEX VALUE(00000023) 2664 3331 3343 3464
3526	INTBL	ADDRESS. HEX LOCATION(000034F6) IN CSECT(I7A25) LENGTH(2) 3561
3421	INTER	ADDRESS. HEX LOCATION(0000345A) IN CSECT(I7A25) LENGTH(2) 3528
3430	INTES	ADDRESS. HEX LOCATION(00003472) IN CSECT(I7A25) LENGTH(2) 3425
3434	INTET	ADDRESS. HEX LOCATION(0000347A) IN CSECT(I7A25) LENGTH(2) 3431
3461	INTOK	ADDRESS. HEX LOCATION(0000347E) IN CSECT(I7A25) LENGTH(2) 3527
3483	INTRX	ADDRESS. HEX LOCATION(000034AE) IN CSECT(I7A25) LENGTH(2) 3478 3481
3464	INTR1	ADDRESS. HEX LOCATION(00003486) IN CSECT(I7A25) LENGTH(2) 3429 3433 3435
3469	INTR2	ADDRESS. HEX LOCATION(00003494) IN CSECT(I7A25) LENGTH(1) 3466
3477	INTR3	ADDRESS. HEX LOCATION(000034A2) IN CSECT(I7A25) LENGTH(2) 3474
3517	IOBLK	ADDRESS. HEX LOCATION(000034EA) IN CSECT(I7A25) LENGTH(2) 2667 3332 3566
3519	IODCB	ADDRESS. HEX LOCATION(000034EE) IN CSECT(I7A25) LENGTH(2) 2601 2604 2607 2615 2626 2629 2632 2635 2643 2647 2651 2678 2681 3314 3320 3565
3520	IOMOD	ADDRESS. HEX LOCATION(000034F0) IN CSECT(I7A25) LENGTH(2) 2668 2669 3306 3309 3315
37	I7A25	CSECT. START(00002500) LENGTH(4652) ESDID(1) 37
3636	LINE1	ADDRESS. HEX LOCATION(000035D6) IN CSECT(I7A25) LENGTH(40) 3607
2229	LSTIO	ADDRESS. HEX LOCATION(00003180) IN CSECT(I7A25) LENGTH(2) 2654 3318 3569
2206	MI	ABSOLUTE. HEX VALUE(00000020) 3479
3610	MVBUF	ADDRESS. HEX LOCATION(00003562) IN CSECT(I7A25) LENGTH(2) 3614 3617
2218	NG	ABSOLUTE. HEX VALUE(0000002C) 3482
2213	NI	ABSOLUTE. HEX VALUE(00000027) 3337
831	N00001	ADDRESS. HEX LOCATION(000027A8) IN CSECT(I7A25) LENGTH(2) 315 2104
843	N00002	ADDRESS. HEX LOCATION(000027BC) IN CSECT(I7A25) LENGTH(2) 318
855	N00003	ADDRESS. HEX LOCATION(000027CE) IN CSECT(I7A25) LENGTH(2) 321
858	N00004	ADDRESS. HEX LOCATION(000027D2) IN CSECT(I7A25) LENGTH(2) 324 844
870	N00005	ADDRESS. HEX LOCATION(000027EA) IN CSECT(I7A25) LENGTH(2) 327
882	N00006	ADDRESS. HEX LOCATION(00002802) IN CSECT(I7A25) LENGTH(2) 330
894	N00007	ADDRESS. HEX LOCATION(0000281A) IN CSECT(I7A25) LENGTH(2) 333
906	N00008	ADDRESS. HEX LOCATION(00002832) IN CSECT(I7A25) LENGTH(2) 336
918	N00009	ADDRESS. HEX LOCATION(0000284A) IN CSECT(I7A25) LENGTH(2) 339
930	N00010	ADDRESS. HEX LOCATION(00002862) IN CSECT(I7A25) LENGTH(2) 342
933	N00011	ADDRESS. HEX LOCATION(00002866) IN CSECT(I7A25) LENGTH(2) 345 919
936	N00012	ADDRESS. HEX LOCATION(0000286A) IN CSECT(I7A25) LENGTH(2) 348 907
939	N00013	ADDRESS. HEX LOCATION(0000286E) IN CSECT(I7A25) LENGTH(2) 351 895
951	N00014	ADDRESS. HEX LOCATION(00002886) IN CSECT(I7A25) LENGTH(2) 354
963	N00015	ADDRESS. HEX LOCATION(0000289E) IN CSECT(I7A25) LENGTH(2) 357
975	N00016	ADDRESS. HEX LOCATION(000028B6) IN CSECT(I7A25) LENGTH(2) 360
987	N00017	ADDRESS. HEX LOCATION(000028CE) IN CSECT(I7A25) LENGTH(2) 363
990	N00018	ADDRESS. HEX LOCATION(000028D2) IN CSECT(I7A25) LENGTH(2) 366 976
993	N00019	ADDRESS. HEX LOCATION(000028D6) IN CSECT(I7A25) LENGTH(2) 369 964
996	N00020	ADDRESS. HEX LOCATION(000028DA) IN CSECT(I7A25) LENGTH(2) 372 952
1008	N00021	ADDRESS. HEX LOCATION(000028F2) IN CSECT(I7A25) LENGTH(2) 375
1011	N00022	ADDRESS. HEX LOCATION(000028F6) IN CSECT(I7A25) LENGTH(2) 378 997
1014	N00023	ADDRESS. HEX LOCATION(000028FA) IN CSECT(I7A25) LENGTH(2) 381 940
1017	N00024	ADDRESS. HEX LOCATION(000028FE) IN CSECT(I7A25) LENGTH(2) 384 883
1029	N00025	ADDRESS. HEX LOCATION(00002916) IN CSECT(I7A25) LENGTH(2) 387
1041	N00026	ADDRESS. HEX LOCATION(0000292E) IN CSECT(I7A25) LENGTH(2) 390
1053	N00027	ADDRESS. HEX LOCATION(00002946) IN CSECT(I7A25) LENGTH(2) 393
1065	N00028	ADDRESS. HEX LOCATION(00002958) IN CSECT(I7A25) LENGTH(2) 396

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
1068	N00029	ADDRESS. HEX LOCATION(0000295C) IN CSECT(I7A25) LENGTH(2) 399 1054
1071	N00030	ADDRESS. HEX LOCATION(00002960) IN CSECT(I7A25) LENGTH(2) 402 1042
1074	N00031	ADDRESS. HEX LOCATION(00002964) IN CSECT(I7A25) LENGTH(2) 405 1030
1086	N00032	ADDRESS. HEX LOCATION(0000297C) IN CSECT(I7A25) LENGTH(2) 408
1098	N00033	ADDRESS. HEX LOCATION(0000298E) IN CSECT(I7A25) LENGTH(2) 411
1110	N00034	ADDRESS. HEX LOCATION(000029A6) IN CSECT(I7A25) LENGTH(2) 414
1113	N00035	ADDRESS. HEX LOCATION(000029AA) IN CSECT(I7A25) LENGTH(2) 417 1099
1116	N00036	ADDRESS. HEX LOCATION(000029AE) IN CSECT(I7A25) LENGTH(2) 420 1087
1119	N00037	ADDRESS. HEX LOCATION(000029B2) IN CSECT(I7A25) LENGTH(2) 423 1075
1122	N00038	ADDRESS. HEX LOCATION(000029B6) IN CSECT(I7A25) LENGTH(2) 426 1018
1134	N00039	ADDRESS. HEX LOCATION(000029CE) IN CSECT(I7A25) LENGTH(2) 429
1146	N00040	ADDRESS. HEX LOCATION(000029E6) IN CSECT(I7A25) LENGTH(2) 432
1158	N00041	ADDRESS. HEX LOCATION(000029FE) IN CSECT(I7A25) LENGTH(2) 435
1170	N00042	ADDRESS. HEX LOCATION(00002A16) IN CSECT(I7A25) LENGTH(2) 438
1173	N00043	ADDRESS. HEX LOCATION(00002A1A) IN CSECT(I7A25) LENGTH(2) 441 1159
1185	N00044	ADDRESS. HEX LOCATION(00002A2C) IN CSECT(I7A25) LENGTH(2) 444
1188	N00045	ADDRESS. HEX LOCATION(00002A30) IN CSECT(I7A25) LENGTH(2) 447 1174
1191	N00046	ADDRESS. HEX LOCATION(00002A34) IN CSECT(I7A25) LENGTH(2) 450 1147
1203	N00047	ADDRESS. HEX LOCATION(00002A4E) IN CSECT(I7A25) LENGTH(2) 453
1215	N00048	ADDRESS. HEX LOCATION(00002A66) IN CSECT(I7A25) LENGTH(2) 456
1218	N00049	ADDRESS. HEX LOCATION(00002A6A) IN CSECT(I7A25) LENGTH(2) 459 1204
1230	N00050	ADDRESS. HEX LOCATION(00002A82) IN CSECT(I7A25) LENGTH(2) 462
1233	N00051	ADDRESS. HEX LOCATION(00002A86) IN CSECT(I7A25) LENGTH(2) 465 1219
1236	N00052	ADDRESS. HEX LOCATION(00002A8A) IN CSECT(I7A25) LENGTH(2) 468 1192
1239	N00053	ADDRESS. HEX LOCATION(00002A8E) IN CSECT(I7A25) LENGTH(2) 471 1135
1242	N00054	ADDRESS. HEX LOCATION(00002A92) IN CSECT(I7A25) LENGTH(2) 474 1123
1245	N00055	ADDRESS. HEX LOCATION(00002A96) IN CSECT(I7A25) LENGTH(2) 477 871
1257	N00056	ADDRESS. HEX LOCATION(00002AAE) IN CSECT(I7A25) LENGTH(2) 480
1269	N00057	ADDRESS. HEX LOCATION(00002AC6) IN CSECT(I7A25) LENGTH(2) 483
1281	N00058	ADDRESS. HEX LOCATION(00002ADE) IN CSECT(I7A25) LENGTH(2) 486
1284	N00059	ADDRESS. HEX LOCATION(00002AE2) IN CSECT(I7A25) LENGTH(2) 489 1270
1287	N00060	ADDRESS. HEX LOCATION(00002AE6) IN CSECT(I7A25) LENGTH(2) 492 1258
1290	N00061	ADDRESS. HEX LOCATION(00002AEA) IN CSECT(I7A25) LENGTH(2) 495 1246
1302	N00062	ADDRESS. HEX LOCATION(00002B02) IN CSECT(I7A25) LENGTH(2) 498
1305	N00063	ADDRESS. HEX LOCATION(00002B06) IN CSECT(I7A25) LENGTH(2) 501 1291
1308	N00064	ADDRESS. HEX LOCATION(00002B0A) IN CSECT(I7A25) LENGTH(2) 504 859
1320	N00065	ADDRESS. HEX LOCATION(00002B28) IN CSECT(I7A25) LENGTH(2) 507
1332	N00066	ADDRESS. HEX LOCATION(00002B40) IN CSECT(I7A25) LENGTH(2) 510
1335	N00067	ADDRESS. HEX LOCATION(00002B44) IN CSECT(I7A25) LENGTH(2) 513 1321
1338	N00068	ADDRESS. HEX LOCATION(00002B48) IN CSECT(I7A25) LENGTH(2) 516 1309
1350	N00069	ADDRESS. HEX LOCATION(00002B60) IN CSECT(I7A25) LENGTH(2) 519
1353	N00070	ADDRESS. HEX LOCATION(00002B64) IN CSECT(I7A25) LENGTH(2) 522 1339
1356	N00071	ADDRESS. HEX LOCATION(00002B68) IN CSECT(I7A25) LENGTH(2) 525 832
1368	N00072	ADDRESS. HEX LOCATION(00002B80) IN CSECT(I7A25) LENGTH(2) 528
1380	N00073	ADDRESS. HEX LOCATION(00002B98) IN CSECT(I7A25) LENGTH(2) 531
1392	N00074	ADDRESS. HEX LOCATION(00002BB0) IN CSECT(I7A25) LENGTH(2) 534
1404	N00075	ADDRESS. HEX LOCATION(00002BC8) IN CSECT(I7A25) LENGTH(2) 537
1407	N00076	ADDRESS. HEX LOCATION(00002BCC) IN CSECT(I7A25) LENGTH(2) 540 1393
1410	N00077	ADDRESS. HEX LOCATION(00002BD0) IN CSECT(I7A25) LENGTH(2) 543 1381
1422	N00078	ADDRESS. HEX LOCATION(00002BE8) IN CSECT(I7A25) LENGTH(2) 546
1425	N00079	ADDRESS. HEX LOCATION(00002BEC) IN CSECT(I7A25) LENGTH(2) 549 1411
1437	N00080	ADDRESS. HEX LOCATION(00002C0A) IN CSECT(I7A25) LENGTH(2) 552
1440	N00081	ADDRESS. HEX LOCATION(00002C0E) IN CSECT(I7A25) LENGTH(2) 555 1426
1443	N00082	ADDRESS. HEX LOCATION(00002C12) IN CSECT(I7A25) LENGTH(2) 558 1369
1455	N00083	ADDRESS. HEX LOCATION(00002C28) IN CSECT(I7A25) LENGTH(2) 561
1467	N00084	ADDRESS. HEX LOCATION(00002C40) IN CSECT(I7A25) LENGTH(2)

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1479	N00085	564 ADDRESS. HEX LOCATION(00002C58) IN CSECT(I7A25) LENGTH(2)
1482	N00086	567 ADDRESS. HEX LOCATION(00002C5C) IN CSECT(I7A25) LENGTH(2)
1485	N00087	570 1468 ADDRESS. HEX LOCATION(00002C60) IN CSECT(I7A25) LENGTH(2)
1488	N00088	573 1456 ADDRESS. HEX LOCATION(00002C64) IN CSECT(I7A25) LENGTH(2)
1491	N00089	576 1444 ADDRESS. HEX LOCATION(00002C68) IN CSECT(I7A25) LENGTH(2)
1503	N00090	579 1357 ADDRESS. HEX LOCATION(00002C80) IN CSECT(I7A25) LENGTH(2)
1515	N00091	582 ADDRESS. HEX LOCATION(00002C98) IN CSECT(I7A25) LENGTH(2)
1527	N00092	585 ADDRESS. HEX LOCATION(00002CB0) IN CSECT(I7A25) LENGTH(2)
1539	N00093	588 ADDRESS. HEX LOCATION(00002CC8) IN CSECT(I7A25) LENGTH(2)
1551	N00094	591 ADDRESS. HEX LOCATION(00002CE0) IN CSECT(I7A25) LENGTH(2)
1563	N00095	594 ADDRESS. HEX LOCATION(00002CF8) IN CSECT(I7A25) LENGTH(2)
1566	N00096	597 ADDRESS. HEX LOCATION(00002CFC) IN CSECT(I7A25) LENGTH(2)
1578	N00097	600 1552 ADDRESS. HEX LOCATION(00002D14) IN CSECT(I7A25) LENGTH(2)
1581	N00098	603 ADDRESS. HEX LOCATION(00002D18) IN CSECT(I7A25) LENGTH(2)
1584	N00099	606 1567 ADDRESS. HEX LOCATION(00002D1C) IN CSECT(I7A25) LENGTH(2)
1587	N00100	609 1540 ADDRESS. HEX LOCATION(00002D20) IN CSECT(I7A25) LENGTH(2)
1599	N00101	612 1528 ADDRESS. HEX LOCATION(00002D38) IN CSECT(I7A25) LENGTH(2)
1611	N00102	615 ADDRESS. HEX LOCATION(00002D50) IN CSECT(I7A25) LENGTH(2)
1614	N00103	618 ADDRESS. HEX LOCATION(00002D54) IN CSECT(I7A25) LENGTH(2)
1617	N00104	621 1600 ADDRESS. HEX LOCATION(00002D58) IN CSECT(I7A25) LENGTH(2)
1620	N00105	624 1588 ADDRESS. HEX LOCATION(00002D5C) IN CSECT(I7A25) LENGTH(2)
1632	N00106	627 1516 ADDRESS. HEX LOCATION(00002D74) IN CSECT(I7A25) LENGTH(2)
1644	N00107	630 ADDRESS. HEX LOCATION(00002D8C) IN CSECT(I7A25) LENGTH(2)
1647	N00108	633 ADDRESS. HEX LOCATION(00002D90) IN CSECT(I7A25) LENGTH(2)
1650	N00109	636 1633 ADDRESS. HEX LOCATION(00002D94) IN CSECT(I7A25) LENGTH(2)
1653	N00110	639 1621 ADDRESS. HEX LOCATION(00002D98) IN CSECT(I7A25) LENGTH(2)
1665	N00111	642 1504 ADDRESS. HEX LOCATION(00002DB0) IN CSECT(I7A25) LENGTH(2)
1677	N00112	645 ADDRESS. HEX LOCATION(00002DC8) IN CSECT(I7A25) LENGTH(2)
1680	N00113	648 ADDRESS. HEX LOCATION(00002DCC) IN CSECT(I7A25) LENGTH(2)
1683	N00114	651 1666 ADDRESS. HEX LOCATION(00002DD0) IN CSECT(I7A25) LENGTH(2)
1695	N00115	654 1654 ADDRESS. HEX LOCATION(00002DE2) IN CSECT(I7A25) LENGTH(2)
1707	N00116	657 ADDRESS. HEX LOCATION(00002DFA) IN CSECT(I7A25) LENGTH(2)
1710	N00117	660 ADDRESS. HEX LOCATION(00002DFE) IN CSECT(I7A25) LENGTH(2)
1713	N00118	663 1696 ADDRESS. HEX LOCATION(00002E02) IN CSECT(I7A25) LENGTH(2)
1716	N00119	666 1684 ADDRESS. HEX LOCATION(00002E06) IN CSECT(I7A25) LENGTH(2)
1728	N00120	669 1492 ADDRESS. HEX LOCATION(00002E1E) IN CSECT(I7A25) LENGTH(2)
1740	N00121	672 ADDRESS. HEX LOCATION(00002E36) IN CSECT(I7A25) LENGTH(2)
1752	N00122	675 ADDRESS. HEX LOCATION(00002E4E) IN CSECT(I7A25) LENGTH(2)
1764	N00123	678 ADDRESS. HEX LOCATION(00002E66) IN CSECT(I7A25) LENGTH(2)
1767	N00124	681 ADDRESS. HEX LOCATION(00002E6A) IN CSECT(I7A25) LENGTH(2)
1770	N00125	684 1753 ADDRESS. HEX LOCATION(00002E6E) IN CSECT(I7A25) LENGTH(2)
1782	N00126	687 1741 ADDRESS. HEX LOCATION(00002E8C) IN CSECT(I7A25) LENGTH(2)
1794	N00127	690 ADDRESS. HEX LOCATION(00002EA4) IN CSECT(I7A25) LENGTH(2)
1806	N00128	693 ADDRESS. HEX LOCATION(00002EBC) IN CSECT(I7A25) LENGTH(2)
1818	N00129	696 ADDRESS. HEX LOCATION(00002ED4) IN CSECT(I7A25) LENGTH(2)
1821	N00130	699 ADDRESS. HEX LOCATION(00002ED8) IN CSECT(I7A25) LENGTH(2)
1824	N00131	702 1807 ADDRESS. HEX LOCATION(00002EDC) IN CSECT(I7A25) LENGTH(2)
1836	N00132	705 1795 ADDRESS. HEX LOCATION(00002EF4) IN CSECT(I7A25) LENGTH(2)
1839	N00133	708 ADDRESS. HEX LOCATION(00002EF8) IN CSECT(I7A25) LENGTH(2)
1842	N00134	711 1825 ADDRESS. HEX LOCATION(00002EFC) IN CSECT(I7A25) LENGTH(2)
1845	N00135	714 1783 ADDRESS. HEX LOCATION(00002F00) IN CSECT(I7A25) LENGTH(2)
1848	N00136	717 1771 ADDRESS. HEX LOCATION(00002F04) IN CSECT(I7A25) LENGTH(2)
1860	N00137	720 1729 ADDRESS. HEX LOCATION(00002F1C) IN CSECT(I7A25) LENGTH(2)
1872	N00138	723 ADDRESS. HEX LOCATION(00002F34) IN CSECT(I7A25) LENGTH(2)
1884	N00139	726 ADDRESS. HEX LOCATION(00002F46) IN CSECT(I7A25) LENGTH(2)
		729

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
1896	N00140	732 ADDRESS. HEX LOCATION(00002F5E) IN CSECT(I7A25) LENGTH(2)
1899	N00141	735 1885 ADDRESS. HEX LOCATION(00002F62) IN CSECT(I7A25) LENGTH(2)
1911	N00142	738 ADDRESS. HEX LOCATION(00002F7A) IN CSECT(I7A25) LENGTH(2)
1914	N00143	741 1900 ADDRESS. HEX LOCATION(00002F7E) IN CSECT(I7A25) LENGTH(2)
1926	N00144	744 ADDRESS. HEX LOCATION(00002F96) IN CSECT(I7A25) LENGTH(2)
1929	N00145	747 1915 ADDRESS. HEX LOCATION(00002F9A) IN CSECT(I7A25) LENGTH(2)
1932	N00146	750 1873 ADDRESS. HEX LOCATION(00002F9E) IN CSECT(I7A25) LENGTH(2)
1935	N00147	753 1861 ADDRESS. HEX LOCATION(00002FA2) IN CSECT(I7A25) LENGTH(2)
1938	N00148	756 1849 ADDRESS. HEX LOCATION(00002FA6) IN CSECT(I7A25) LENGTH(2)
1950	N00149	759 ADDRESS. HEX LOCATION(00002FB8) IN CSECT(I7A25) LENGTH(2)
1962	N00150	762 ADDRESS. HEX LOCATION(00002FD0) IN CSECT(I7A25) LENGTH(2)
1974	N00151	765 ADDRESS. HEX LOCATION(00002FE8) IN CSECT(I7A25) LENGTH(2)
1977	N00152	768 ADDRESS. HEX LOCATION(00002FEC) IN CSECT(I7A25) LENGTH(2)
1980	N00153	771 1951 ADDRESS. HEX LOCATION(00002FF0) IN CSECT(I7A25) LENGTH(2)
1983	N00154	774 1939 ADDRESS. HEX LOCATION(00002FF4) IN CSECT(I7A25) LENGTH(2)
1986	N00155	777 1717 ADDRESS. HEX LOCATION(00002FF8) IN CSECT(I7A25) LENGTH(2)
1998	N00156	780 ADDRESS. HEX LOCATION(00003010) IN CSECT(I7A25) LENGTH(2)
2010	N00157	783 ADDRESS. HEX LOCATION(00003028) IN CSECT(I7A25) LENGTH(2)
2022	N00158	786 ADDRESS. HEX LOCATION(00003040) IN CSECT(I7A25) LENGTH(2)
2034	N00159	789 ADDRESS. HEX LOCATION(00003058) IN CSECT(I7A25) LENGTH(2)
2037	N00160	792 2023 ADDRESS. HEX LOCATION(0000305C) IN CSECT(I7A25) LENGTH(2)
2049	N00161	795 ADDRESS. HEX LOCATION(00003074) IN CSECT(I7A25) LENGTH(2)
2052	N00162	798 2038 ADDRESS. HEX LOCATION(00003078) IN CSECT(I7A25) LENGTH(2)
2055	N00163	801 2011 ADDRESS. HEX LOCATION(0000307C) IN CSECT(I7A25) LENGTH(2)
2058	N00164	804 1999 ADDRESS. HEX LOCATION(00003080) IN CSECT(I7A25) LENGTH(2)
2061	N00165	807 1987 ADDRESS. HEX LOCATION(00003084) IN CSECT(I7A25) LENGTH(2)
2073	N00166	810 ADDRESS. HEX LOCATION(00003096) IN CSECT(I7A25) LENGTH(2)
2085	N00167	813 ADDRESS. HEX LOCATION(000030AE) IN CSECT(I7A25) LENGTH(2)
2088	N00168	816 ADDRESS. HEX LOCATION(000030B2) IN CSECT(I7A25) LENGTH(2)
2091	N00169	819 2074 ADDRESS. HEX LOCATION(000030B6) IN CSECT(I7A25) LENGTH(2)
58	OF	ABSOLUTE. HEX VALUE(00000202) 834 846 873 885 897 921 954 978 1020 1044 1056 1077 1089 1125 1161 1176 1194 1221 1248 1260 1272 1293 1311 1341 1383 1395 1413 1428 1446 1458 1506 1530 1554 1569 1602 1635 1656 1668 1686 1698 1731 1755 1773 1785 1809 1827 1851 1875 1887 1902 1941 1965 2013 2025 2064
57	ON	ABSOLUTE. HEX VALUE(00000200) 861 909 942 966 999 1032 1101 1137 1149 1206 1323 1359 1371 1470 1494 1518 1542 1590 1623 1719 1743 1797 1863 1917 1953 1989 2001 2040 2076
2171	OPTN1	ADDRESS. HEX LOCATION(00003174) IN CSECT(I7A25) LENGTH(2)
2194	OPTN3	ADDRESS. HEX LOCATION(00003178) IN CSECT(I7A25) LENGTH(2)
101	PARMARA	3512 3560 ADDRESS. HEX LOCATION(0000196E) IN CSECT(I7A25) LENGTH(1) 841 853 868 880 892 904 916 928 949 961 973 985 1006 1027 1039 1051 1063 1084 1096 1108 1132 1144 1156 1168 1183 1201 1213 1228 1255 1267 1279 1300 1318 1330 1348 1366 1378 1390 1402 1420 1435 1453 1465 1477 1501 1513 1525 1537 1549 1561 1576 1597 1609 1630 1642 1663 1675 1693 1705 1726 1738 1750 1762 1780 1792 1804 1816 1834 1858 1870 1882 1894 1909 1924 1948 1960 1972 1996 2008 2020 2032 2047 2071 2083
69	PID	ADDRESS. HEX LOCATION(00001800) IN CSECT(I7A25) LENGTH(1) 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 3618
3654	PIDMSG10	ABSOLUTE. HEX VALUE(0000F1F0) 3618
2293	PREP	ABSOLUTE. HEX VALUE(0000000C) 3570
2469	RDDCB	ADDRESS. HEX LOCATION(0000324C) IN CSECT(I7A25) LENGTH(2) 2623 2624 2626 2681 2682 2683
2300	RICB	ABSOLUTE. HEX VALUE(00000013) 3627
2491	RKDCB	ADDRESS. HEX LOCATION(0000326C) IN CSECT(I7A25) LENGTH(2) 2635 2640
2502	RMDCB	ADDRESS. HEX LOCATION(0000327C) IN CSECT(I7A25) LENGTH(2) 2615
2525	RSBA	ADDRESS. HEX LOCATION(000032A6) IN CSECT(I7A25) LENGTH(2) 2397 2407 2418 2429 2451 2462 2473 2484 2495 2506
2414	RSDCB	ADDRESS. HEX LOCATION(000031FC) IN CSECT(I7A25) LENGTH(2) 2607 2612

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
0	R0	REGISTER. HEX VALUE (00000000) 2668 2670 2671
0	R1	REGISTER. HEX VALUE (00000001) 3607 3610 3613 3616
0	R2	REGISTER. HEX VALUE (00000002) 3612 3613
0	R3	REGISTER. HEX VALUE (00000003) 2554 2556 2608 2611 2618 2619 2622 2625 2636 2639 2655 2658 2661 2663 2684 2685 3306 3319 3322 3323 3326 3328 3385 3386 3387 3421 3422 3428 3432 3461 3462 3467 3480 3512 3557 3559 3560 3568 3605 3606 3610 3622
0	R4	REGISTER. HEX VALUE (00000004) 2664 2665 2666 3312 3313 3316 3330 3331 3333 3334 3337 3343 3351 3423 3424 3426 3430 3434 3463 3464 3465 3475 3476 3477 3479 3482 3492 3494 3496 3499 3501 3701
0	R5	REGISTER. HEX VALUE (00000005) 2555 2556 2609 2611 2617 2619 2623 2625 2637 2639 2656 2658 2659 2661 2683 2685 3320 3322 3324 3326 3342 3349 3471 3472 3473 3504 3505 3507 3509 3558 3559 3604 3617
0	R6	REGISTER. HEX VALUE (00000006) 2557 2558 2654 3318 3338 3352 3388 3493 3498 3500 3508 3511 3513 3563 3569 3571 3609 3614 3615 3702
0	R7	REGISTER. HEX VALUE (00000007) 2273 2553 2610 2616 2624 2638 2657 2660 2667 2682 3321 3325 3332 3427 3468 3556 3561 3566 3596 3608 3611 3623 3626 3699
2234	SCTID	ADDRESS. HEX LOCATION (00003182) IN CSECT (I7A25) LENGTH (2) 2421 2498 2554 2609 2612 2637 2640
2425	SKDCB	ADDRESS. HEX LOCATION (0000320C) IN CSECT (I7A25) LENGTH (2) 2601
2291	START	ABSOLUTE. HEX VALUE (0000000A) 3335
104	SUPSTAT	ADDRESS. HEX LOCATION (000019C4) IN CSECT (I7A25) LENGTH (1) 3621
92	TUMSGWTR	ADDRESS. HEX LOCATION (000018BA) IN CSECT (I7A25) LENGTH (1) 3623
98	TURESUL	ADDRESS. HEX LOCATION (000018C8) IN CSECT (I7A25) LENGTH (1) 3705 3706
2263	TURTN	ADDRESS. HEX LOCATION (000031BC) IN CSECT (I7A25) LENGTH (2) 3628 3699
74	TUSTATUS	ADDRESS. HEX LOCATION (00001818) IN CSECT (I7A25) LENGTH (1) 3598
75	TUWORK	ADDRESS. HEX LOCATION (0000181A) IN CSECT (I7A25) LENGTH (1) 3601 3602 3603 3605 3661 3705 3706
2272	T7A 02	ADDRESS. HEX LOCATION (000031C4) IN CSECT (I7A25) LENGTH (6) 845 860 872 884 896 908 920 941 953 965 977 998 1019 1031 1043 1055 1076 1088 1100 1124 1136 1148 1160 1175 1193 1205 1220 1247 1259 1271 1282 1310 1327 1340 1358 1370 1382 1394 1412 1427 1445 1457 1469 1493 1505 1517 1529 1541 1553 1568 1589 1601 1622 1634 1655 1667 1685 1697 1718 1730 1742 1754 1772 1784 1796 1808 1826 1850 1862 1874 1886 1901 1916 1940 1952 1964 1988 2000 2012 2024 2039 2063 2075
3699	T7A 10	ADDRESS. HEX LOCATION (00003708) IN CSECT (I7A25) LENGTH (4) 833
2458	VRDCB	ADDRESS. HEX LOCATION (0000323C) IN CSECT (I7A25) LENGTH (2) 2629
2480	WKDCB	ADDRESS. HEX LOCATION (0000325C) IN CSECT (I7A25) LENGTH (2) 2643 2644
2447	WRDCB	ADDRESS. HEX LOCATION (0000322C) IN CSECT (I7A25) LENGTH (2) 2632 2678
2297	WRITO	ABSOLUTE. HEX VALUE (00000010) 2673
2298	WRIT1	ABSOLUTE. HEX VALUE (00000011) 2675
2519	WRSID	ADDRESS. HEX LOCATION (0000329A) IN CSECT (I7A25) LENGTH (2) 2410 2487 2555 2644 2648
2403	WSDCB	ADDRESS. HEX LOCATION (000031EC) IN CSECT (I7A25) LENGTH (2) 2647 2648
2210	XE	ABSOLUTE. HEX VALUE (00000024) 3430 3492
2208	XI	ABSOLUTE. HEX VALUE (00000022) 2666 3334 3477
3306	XIO	ADDRESS. HEX LOCATION (000033DC) IN CSECT (I7A25) LENGTH (4) 2602 2605 2613 2620 2627 2630 2633 2641 2645 2649 2652
3492	XIOCK	ADDRESS. HEX LOCATION (000034B0) IN CSECT (I7A25) LENGTH (2) 3344
3499	XIOCO	ADDRESS. HEX LOCATION (000034C2) IN CSECT (I7A25) LENGTH (2) 3497
3509	XIOCQ	ADDRESS. HEX LOCATION (000034D8) IN CSECT (I7A25) LENGTH (4) 3506
3314	XIOCS	ADDRESS. HEX LOCATION (000033EE) IN CSECT (I7A25) LENGTH (6) 3510
3501	XIOCV	ADDRESS. HEX LOCATION (000034C6) IN CSECT (I7A25) LENGTH (2) 3495
3512	XIOCX	ADDRESS. HEX LOCATION (000034E4) IN CSECT (I7A25) LENGTH (4) 3502
3309	XIODG	ADDRESS. HEX LOCATION (000033E2) IN CSECT (I7A25) LENGTH (6) 2679 2686
3385	XIOER	ADDRESS. HEX LOCATION (0000344E) IN CSECT (I7A25) LENGTH (2) 3518
3318	XIO1	ADDRESS. HEX LOCATION (000033FE) IN CSECT (I7A25) LENGTH (4) 3307 3310
3331	XIO2	ADDRESS. HEX LOCATION (00003424) IN CSECT (I7A25) LENGTH (2) 3317
3343	XIO8	ADDRESS. HEX LOCATION (0000343A) IN CSECT (I7A25) LENGTH (2) 2674 2676 3350