

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
3 COPY LOG7A27 \*\* MAP EC HISTORY \*\*
4 \*\*\*\*\*
5 \*\*\* PREREQUISITES \*\*\*
6 \*
7 NONE
8 \*
9 \*\*\*\*\*
10 \*\*\* MODIFICATIONS \*\*\*
11 \*
12 CHANGES MADE TO CORRECT ERRORS FOUND WHILE IN TEST
13 \*
14 \*\*\*\*\*
15 \*\*\* REA'S INCORPORATED \*\*\*
16 \*
17 NONE
18 \*
19 \*\*\*\*\*
20 \*\*\* SPECIAL INSTRUCTIONS \*\*\*
21 \*
22 NONE
23 \*
24 \*\*\*\*\*
25 \*\*\* E. C. HISTORY \*\*\*
26 \*
27 DATE 17AUG78 DATE 10JAN79 DATE DATE
28 E.C. 755391 E.C. 375222 E.C. E.C.
29 \*\*\*\*\*
30 I7A27 START X'2500' START ADDRESS OF ALL 'I' TYPE PROG
31 @QUES EQU X'0100' EQUATED VALUE FOR MDI STATEMENT
32 @FIXT EQU X'0101' EQUATED VALUE FOR MDI STATEMENT
33 @STOP EQU X'0102' EQUATED VALUE FOR MDI STATEMENT
34 @GOTO EQU X'0200' EQUATED VALUE FOR MDI STATEMENT
35 @CALL EQU X'0201' EQUATED VALUE FOR MDI STATEMENT
36 @INPT EQU X'0300' EQUATED VALUE FOR MDI STATEMENT
37 @QUXX EQU X'0400' EQUATED VALUE FOR MDI STATEMENT
38 @TUXX EQU X'0500' EQUATED VALUE FOR MDI STATEMENT
39 @NVLD EQU X'0600' EQUATED VALUE FOR MDI STATEMENT
40 EQ EQU X'0000' EQUATE FOR EQUAL
41 NE EQU X'0004' EQUATE FOR NOT EQUAL
42 HI EQU X'0008' EQUATE FOR HIGH
43 NH EQU X'000C' EQUATE FOR NOT HIGH
44 LO EQU X'0010' EQUATE FOR LOW
45 NL EQU X'0014' EQUATE FOR NOT LOW
46 LT EQU X'0010' EQUATE FOR LESS THAN
47 LE EQU X'000C' EQUATE FOR LESS THAN OR EQUAL TO
48 GT EQU X'0008' EQUATE FOR GREATER THAN
49 GE EQU X'0014' EQUATE FOR GREATER THAN OR EQUAL TO
50 ON EQU X'0200' EQUATE FOR ON
51 OF EQU X'0202' EQUATE FOR OFF
52 MX EQU X'0204' EQUATE FOR MIXED
53 EBC EQU X'0000' EQUATE FOR EBCDIC DATA TRANSFER
54 HEX EQU X'0001' EQUATE FOR HEX DATA TRANSFER
55 XTRNL EQU X'0001' EQUATE FOR EXTERNAL REFERENCE
56 INTRNL EQU X'0000' EQUATE FOR INTERNAL REFERENCE
57 PARM EQU X'0000' EQUATE INDICATING PARAMETER
58 DA EQU X'0001' EQUATE FOR DEVICE ADDRESS
59 UA EQU X'0002' EQUATE FOR UNIT ADDRESS
60 DUMMY EQU X'0000' DUMMY EQUATE
61 PID EQU \*-X'0D00' ADDRESS OF MDI HEADER
62 PTYPE EQU \*-X'22CE' ADDRESS OF PROCESSOR TYPE FIELD
63 STEPNUM EQU PID+X'000C' ADDRESS OF DECIMAL STEP NUMBER
64 OPWD1 EQU PID+X'000E' ADDRESS OF OPTION WORD ONE
65 OPWD2 EQU PID+X'0010' ADDRESS OF OPTION WORD TWO
66 TUSTATUS EQU PID+X'0018' ADDRESS OF TU STATUS WORD
67 TUNWRK EQU PID+X'001A' ADDRESS OF TU WORK AREA
68 TUPARM1 EQU PID+X'009A' ADDRESS OF PARM 1 POINTER
69 TUPARM2 EQU PID+X'009C' ADDRESS OF PARM 2 POINTER
70 TUPARM3 EQU PID+X'009E' ADDRESS OF PARM 3 POINTER
71 TUPARM4 EQU PID+X'00A0' ADDRESS OF PARM 4 POINTER
72 TUPARM5 EQU PID+X'00A2' ADDRESS OF PARM 5 POINTER
73 TUPARM6 EQU PID+X'00A4' ADDRESS OF PARM 6 POINTER
74 TUPARM7 EQU PID+X'00A6' ADDRESS OF PARM 7 POINTER
75 TUPARM8 EQU PID+X'00A8' ADDRESS OF PARM 8 POINTER
76 TUPARM9 EQU PID+X'00AA' ADDRESS OF PARM 9 POINTER
77 TUPARM10 EQU PID+X'00AC' ADDRESS OF PARM 10 POINTER
78 TUPARM11 EQU PID+X'00AE' ADDRESS OF PARM 11 POINTER
79 TUPARM12 EQU PID+X'00B0' ADDRESS OF PARM 12 POINTER
80 TUPARM13 EQU PID+X'00B2' ADDRESS OF PARM 13 POINTER
81 TUPARM14 EQU PID+X'00B4' ADDRESS OF PARM 14 POINTER
82 TUPARM15 EQU PID+X'00B6' ADDRESS OF PARM 15 POINTER
83 TUPARM16 EQU PID+X'00B8' ADDRESS OF PARM 16 POINTER
84 TUNSGWTR EQU PID+X'00BA' ADDRESS OF TU TO COMMON MSG WRITER
85 TUDA EQU PID+X'00BE' ADDRESS OF UNIT ADDRESS IN EBC
86 TUBUFF EQU PID+X'00C0' ADDRESS OF DEVICE ADDRESS IN EBC
87 TULAST EQU PID+X'00C2' ADDRESS OF LAST USED WORD IN MAP
88 TURESULN EQU PID+X'00C4' ADDRESS OF LAST ADDRESSABLE WORD
89 TURESUL EQU PID+X'00C6' ADDRESS OF LENGTH OF TU RESULTS
90 MAPNAME EQU PID+X'00C8' ADDRESS OF TU RESULTS FIELD
91 TUNINPT EQU PID+X'00FC' ADDRESS OF MAP NAME FIELD IN HEX
92 TUNPAMA EQU PID+X'0148' ADDRESS OF SINPT DATA
93 PARMARA EQU PID+X'016E' ADDRESS OF SINPT INPUT AREA
94 @DCADD1 EQU PID+X'01B6' MDI POINTER
95 @DCADD2 EQU PID+X'01BA' MDI POINTER
96 SUBSTAT EQU PID+X'01C4' ADDRESS OF MDI STATUS
97 DEVADD EQU PID+X'01D0' ADDRESS OF DEVICE ADDRESS TABLE 0
98 DEVADD1 EQU PID+X'01DA' ADDRESS OF DEVICE ADDRESS TABLE 1
99 DEVADD2 EQU PID+X'01E4' ADDRESS OF DEVICE ADDRESS TABLE 2
100 DEVADD3 EQU PID+X'01EE' ADDRESS OF DEVICE ADDRESS TABLE 3
101 DEVADD4 EQU PID+X'01F8' ADDRESS OF DEVICE ADDRESS TABLE 4
102 DEVADD5 EQU PID+X'0202' ADDRESS OF DEVICE ADDRESS TABLE 5
103 DEVADD6 EQU PID+X'020C' ADDRESS OF DEVICE ADDRESS TABLE 6
104 DEVADD7 EQU PID+X'0216' ADDRESS OF DEVICE ADDRESS TABLE 7
105 PRINT OFF

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
002500 2E92
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 LEG 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 COMPARED 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 \*\* ENTRY POINT TABLE \*\*
281 \*\* THIS TABLE CONTAINS THE ENTRY POINTS WITHIN THE MAP THAT \*\*
282 \*\* THE MAP CAN BE ENTERED FROM THESE ENTRY POINTS ARE \*\*
283 \*\* REFERENCED BY NAME AND ADDRESS. ENTRIES ARE AS FOLLOWS: \*\*
284 \*\*
285 \*\* A) NAME OF ENTRY POINT \*\*
286 \*\* B) ADDRESS OF ENTRY POINT RULE TABLE \*\*
287 \*\*
288 \*\* THE ENTRY POINT TABLE END IS INDICATED BY A X'0000' \*\*
289 \*\*
290 \*\* MESSAGE TABLE \*\*
291 \*\* THIS TABLE CONTAINS THE MESSAGE PASSED TO THE OPERATOR \*\*
292 \*\* VIA THE MDI SUPERVISOR. THE TABLE IS AS FOLLOWS: \*\*
293 \*\*
294 \*\* A) EQUATE FOR START OF MESSAGE BLOCK \*\*
295 \*\* B) NUMBER OF LINES OF MESSAGE \*\*
296 \*\* C) LENGTH OF FOLLOWING LINE \*\*
297 \*\* D) FIRST LINE OF MESSAGE \*\*
298 \*\* E) LENGTH OF FOLLOWING LINE \*\*
299 \*\* F) SECOND LINE OF MESSAGE \*\*
300 \*\* G) ETC. \*\*
301 \*\*
302 \*\*\*\*\*
303 \*\*\*\*\*
304 \*\*\*\*\*
305 \*\*\*\*\*

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
308			*****	
309			*****	
310			**	
311			**	
312			**	
313			**	
314			*****	
315			*****	
002502	2720	15	DC AL2(N00001)	
002504	0001	16	DC XL2'0001'	
000001		17	EQN00001 EQU 0001	
002506	2738	18	DC AL2(N00002)	
002508	0002	19	DC XL2'0002'	
000002		20	EQN00002 EQU 0002	
00250A	2756	21	DC AL2(N00003)	
00250C	0003	22	DC XL2'0003'	
000003		23	EQN00003 EQU 0003	
00250E	276E	24	DC AL2(N00004)	
002510	0004	25	DC XL2'0004'	
000004		26	EQN00004 EQU 0004	
002512	2786	27	DC AL2(N00005)	
002514	0005	28	DC XL2'0005'	
000005		29	EQN00005 EQU 0005	
002516	279E	30	DC AL2(N00006)	
002518	0006	31	DC XL2'0006'	
000006		32	EQN00006 EQU 0006	
00251A	27B6	33	DC AL2(N00007)	
00251C	0007	34	DC XL2'0007'	
000007		35	EQN00007 EQU 0007	
00251E	27CE	36	DC AL2(N00008)	
002520	0008	37	DC XL2'0008'	
000008		38	EQN00008 EQU 0008	
002522	27D2	39	DC AL2(N00009)	
002524	0009	40	DC XL2'0009'	
000009		41	EQN00009 EQU 0009	
002526	27D6	42	DC AL2(N00010)	
002528	0010	43	DC XL2'0010'	
000010		44	EQN00010 EQU 0010	
00252A	27DA	45	DC AL2(N00011)	
00252C	0011	46	DC XL2'0011'	
000011		47	EQN00011 EQU 0011	
00252E	27FE	48	DC AL2(N00012)	
002530	0012	49	DC XL2'0012'	
000012		50	EQN00012 EQU 0012	
002532	27F6	51	DC AL2(N00013)	
002534	0013	52	DC XL2'0013'	
000013		53	EQN00013 EQU 0013	
002536	27FA	54	DC AL2(N00014)	
002538	0014	55	DC XL2'0014'	
000014		56	EQN00014 EQU 0014	
00253A	2812	57	DC AL2(N00015)	
00253C	0015	58	DC XL2'0015'	
000015		59	EQN00015 EQU 0015	
00253E	2816	60	DC AL2(N00016)	
002540	0016	61	DC XL2'0016'	
000016		62	EQN00016 EQU 0016	
002542	281A	63	DC AL2(N00017)	
002544	0017	64	DC XL2'0017'	
000017		65	EQN00017 EQU 0017	
002546	2832	66	DC AL2(N00018)	
002548	0018	67	DC XL2'0018'	
000018		68	EQN00018 EQU 0018	
00254A	2836	69	DC AL2(N00019)	
00254C	0019	70	DC XL2'0019'	
000019		71	EQN00019 EQU 0019	
00254E	284E	72	DC AL2(N00020)	
002550	0020	73	DC XL2'0020'	
000020		74	EQN00020 EQU 0020	
002552	2852	75	DC AL2(N00021)	
002554	0021	76	DC XL2'0021'	
000021		77	EQN00021 EQU 0021	
002556	2856	78	DC AL2(N00022)	
002558	0022	79	DC XL2'0022'	
000022		80	EQN00022 EQU 0022	
00255A	2870	81	DC AL2(N00023)	
00255C	0023	82	DC XL2'0023'	
000023		83	EQN00023 EQU 0023	
00255E	288A	84	DC AL2(N00024)	
002560	0024	85	DC XL2'0024'	
000024		86	EQN00024 EQU 0024	
002562	28A2	87	DC AL2(N00025)	
002564	0025	88	DC XL2'0025'	
000025		89	EQN00025 EQU 0025	
002566	28BA	90	DC AL2(N00026)	
002568	0026	91	DC XL2'0026'	
000026		92	EQN00026 EQU 0026	
00256A	28D2	93	DC AL2(N00027)	
00256C	0027	94	DC XL2'0027'	
000027		95	EQN00027 EQU 0027	
00256E	28EA	96	DC AL2(N00028)	
002570	0028	97	DC XL2'0028'	
000028		98	EQN00028 EQU 0028	
002572	28FE	99	DC AL2(N00029)	
002574	0029	400	DC XL2'0029'	
000029		401	EQN00029 EQU 0029	
002576	2906	402	DC AL2(N00030)	
002578	0030	403	DC XL2'0030'	
000030		404	EQN00030 EQU 0030	
00257A	290A	405	DC AL2(N00031)	
00257C	0031	406	DC XL2'0031'	
000031		407	EQN00031 EQU 0031	
00257E	2922	408	DC AL2(N00032)	
002580	0032	409	DC XL2'0032'	
000032		410	EQN00032 EQU 0032	
002582	2926	411	DC AL2(N00033)	
002584	0033	412	DC XL2'0033'	
000033		413	EQN00033 EQU 0033	
002586	292A	414	DC AL2(N00034)	
002588	0034	415	DC XL2'0034'	
000034		416	EQN00034 EQU 0034	
00258A	2942	417	DC AL2(N00035)	
00258C	0035	418	DC XL2'0035'	
000035		419	EQN00035 EQU 0035	
00258E	2946	420	DC AL2(N00036)	
002590	0036	421	DC XL2'0036'	

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000024		422	EQN00036 EQU 0036	
002592	294A	423	DC AL2(N00037)	
002594	0037	424	DC XL2'0037'	
000037		425	EQN00037 EQU 0037	
002596	2962	426	DC AL2(N00038)	
002598	0038	427	DC XL2'0038'	
000038		428	EQN00038 EQU 0038	
00259A	2966	429	DC AL2(N00039)	
00259C	0039	430	DC XL2'0039'	
000039		431	EQN00039 EQU 0039	
00259E	296A	432	DC AL2(N00040)	
0025A0	0040	433	DC XL2'0040'	
000040		434	EQN00040 EQU 0040	
0025A2	2982	435	DC AL2(N00041)	
0025A4	0041	436	DC XL2'0041'	
000041		437	EQN00041 EQU 0041	
0025A6	2986	438	DC AL2(N00042)	
0025A8	0042	439	DC XL2'0042'	
000042		440	EQN00042 EQU 0042	
0025AA	298A	441	DC AL2(N00043)	
0025AC	0043	442	DC XL2'0043'	
000043		443	EQN00043 EQU 0043	
0025AE	29A2	444	DC AL2(N00044)	
0025B0	0044	445	DC XL2'0044'	
000044		446	EQN00044 EQU 0044	
0025B2	29BA	447	DC AL2(N00045)	
0025B4	0045	448	DC XL2'0045'	
000045		449	EQN00045 EQU 0045	
0025B6	29D2	450	DC AL2(N00046)	
0025B8	0046	451	DC XL2'0046'	
000046		452	EQN00046 EQU 0046	
0025BA	29D6	453	DC AL2(N00047)	
0025BC	0047	454	DC XL2'0047'	
000047		455	EQN00047 EQU 0047	
0025BE	29DA	456	DC AL2(N00048)	
0025C0	0048	457	DC XL2'0048'	
000048		458	EQN00048 EQU 0048	
0025C2	29DE	459	DC AL2(N00049)	
0025C4	0049	460	DC XL2'0049'	
000049		461	EQN00049 EQU 0049	
0025C6	29FE	462	DC AL2(N00050)	
0025C8	0050	463	DC XL2'0050'	
000050		464	EQN00050 EQU 0050	
0025CA	29FA	465	DC AL2(N00051)	
0025CC	0051	466	DC XL2'0051'	
000051		467	EQN00051 EQU 0051	
0025CE	2A12	468	DC AL2(N00052)	
0025D0	0052	469	DC XL2'0052'	
000052		470	EQN00052 EQU 0052	
0025D2	2A16	471	DC AL2(N00053)	
0025D4	0053	472	DC XL2'0053'	
000053		473	EQN00053 EQU 0053	
0025D6	2A1A	474	DC AL2(N00054)	
0025D8	0054	475	DC XL2'0054'	
000054		476	EQN00054 EQU 0054	
0025DA	2A32	477	DC AL2(N00055)	
0025DC	0055	478	DC XL2'0055'	
000055		479	EQN00055 EQU 0055	
0025DE	2A4A	480	DC AL2(N00056)	
0025E0	0056	481	DC XL2'0056'	
000056		482	EQN00056 EQU 0056	
0025E2	2A4E	483	DC AL2(N00057)	
0025E4	0057	484	DC XL2'0057'	
000057		485	EQN00057 EQU 0057	
0025E6	2A52	486	DC AL2(N00058)	
0025E8	0058	487	DC XL2'0058'	
000058		488	EQN00058 EQU 0058	
0025EA	2A6A	489	DC AL2(N00059)	
0025EC	0059	490	DC XL2'0059'	
000059		491	EQN00059 EQU 0059	
0025EE	2A82	492	DC AL2(N00060)	
0025F0	0060	493	DC XL2'0060'	
000060		494	EQN00060 EQU 0060	
0025F2	2A9A	495	DC AL2(N00061)	
0025F4	0061	496	DC XL2'0061'	
000061		497	EQN00061 EQU 0061	
0025F6	2A9E	498	DC AL2(N00062)	
0025F8	0062	499	DC XL2'0062'	
000062		500	EQN00062 EQU 0062	
0025FA	2AB6	501	DC AL2(N00063)	
0025FC	0063	502	DC XL2'0063'	
000063		503	EQN00063 EQU 0063	
0025FE	2ABA	504	DC AL2(N00064)	
002600	0064	505	DC XL2'0064'	
000064		506	EQN00064 EQU 0064	
002602	2ABE	507	DC AL2(N00065)	
002604	0065	508	DC XL2'0065'	
000065		509	EQN00065 EQU 0065	
002606	2AD6	510	DC AL2(N00066)	
002608	0066	511	DC XL2'0066'	
000066		512	EQN00066 EQU 0066	
00260A	2AFE	513	DC AL2(N00067)	
00260C	0067	514	DC XL2'0067'	
000067		515	EQN00067 EQU 0067	
00260E	2AF2	516	DC AL2(N00068)	
002610	0068	517	DC XL2'0068'	
000068		518	EQN00068 EQU 0068	
002612	2B0A	519	DC AL2(N00069)	
002614	0069	520	DC XL2'0069'	
000069		521	EQN00069 EQU 0069	
002616	2B22	522	DC AL2(N00070)	
002618	0070	523	DC XL2'0070'	
000070		524	EQN00070 EQU 0070	
00261A	2B3A	525	DC AL2(N00071)	
00261C	0071	526	DC XL2'0071'	
000071		527	EQN00071 EQU 0071	
00261E	2B52	528	DC AL2(N00072)	
002620	0072	529	DC XL2'0072'	
000072		530	EQN00072 EQU 0072	
002622	2B56	531	DC AL2(N00073)	
002624	0073	532	DC XL2'0073'	
000073		533	EQN00073 EQU 0073	
002626	2B5A	534	DC AL2(N00074)	
002628	0074	535	DC XL2'0074'	

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT
00004A		536	EQN00074 EQU 0074
00262A	2B5E	537	DC AL2(N00075)
00262C	0075	538	DC XL2'0075'
00004B		539	EQN00075 EQU 0075
00262E	2B62	540	DC AL2(N00076)
002630	0076	541	DC XL2'0076'
00004C		542	EQN00076 EQU 0076
002632	2B66	543	DC AL2(N00077)
002634	0077	544	DC XL2'0077'
00004D		545	EQN00077 EQU 0077
002636	2B7E	546	DC AL2(N00078)
002638	0078	547	DC XL2'0078'
00004E		548	EQN00078 EQU 0078
00263A	2B96	549	DC AL2(N00079)
00263C	0079	550	DC XL2'0079'
00004F		551	EQN00079 EQU 0079
00263E	2BAE	552	DC AL2(N00080)
002640	0080	553	DC XL2'0080'
000050		554	EQN00080 EQU 0080
002642	2BB2	555	DC AL2(N00081)
002644	0081	556	DC XL2'0081'
000051		557	EQN00081 EQU 0081
002646	2BCA	558	DC AL2(N00082)
002648	0082	559	DC XL2'0082'
000052		560	EQN00082 EQU 0082
00264A	2BCE	561	DC AL2(N00083)
00264C	0083	562	DC XL2'0083'
000053		563	EQN00083 EQU 0083
00264E	2BD2	564	DC AL2(N00084)
002650	0084	565	DC XL2'0084'
000054		566	EQN00084 EQU 0084
002652	2BD6	567	DC AL2(N00085)
002654	0085	568	DC XL2'0085'
000055		569	EQN00085 EQU 0085
002656	2BEE	570	DC AL2(N00086)
002658	0086	571	DC XL2'0086'
000056		572	EQN00086 EQU 0086
00265A	2C06	573	DC AL2(N00087)
00265C	0087	574	DC XL2'0087'
000057		575	EQN00087 EQU 0087
00265E	2C0A	576	DC AL2(N00088)
002660	0088	577	DC XL2'0088'
000058		578	EQN00088 EQU 0088
002662	2C0E	579	DC AL2(N00089)
002664	0089	580	DC XL2'0089'
000059		581	EQN00089 EQU 0089
002666	2C12	582	DC AL2(N00090)
002668	0090	583	DC XL2'0090'
00005A		584	EQN00090 EQU 0090
00266A	2C2A	585	DC AL2(N00091)
00266C	0091	586	DC XL2'0091'
00005B		587	EQN00091 EQU 0091
00266E	2C42	588	DC AL2(N00092)
002670	0092	589	DC XL2'0092'
00005C		590	EQN00092 EQU 0092
002672	2C46	591	DC AL2(N00093)
002674	0093	592	DC XL2'0093'
00005D		593	EQN00093 EQU 0093
002676	2C5E	594	DC AL2(N00094)
002678	0094	595	DC XL2'0094'
00005E		596	EQN00094 EQU 0094
00267A	2C62	597	DC AL2(N00095)
00267C	0095	598	DC XL2'0095'
00005F		599	EQN00095 EQU 0095
00267E	2C7A	600	DC AL2(N00096)
002680	0096	601	DC XL2'0096'
000060		602	EQN00096 EQU 0096
002682	2C7E	603	DC AL2(N00097)
002684	0097	604	DC XL2'0097'
000061		605	EQN00097 EQU 0097
002686	2C96	606	DC AL2(N00098)
002688	0098	607	DC XL2'0098'
000062		608	EQN00098 EQU 0098
00268A	2C9A	609	DC AL2(N00099)
00268C	0099	610	DC XL2'0099'
000063		611	EQN00099 EQU 0099
00268E	2C9E	612	DC AL2(N00100)
002690	0100	613	DC XL2'0100'
000064		614	EQN00100 EQU 0100
002692	2CB6	615	DC AL2(N00101)
002694	0101	616	DC XL2'0101'
000065		617	EQN00101 EQU 0101
002696	2CBA	618	DC AL2(N00102)
002698	0102	619	DC XL2'0102'
000066		620	EQN00102 EQU 0102
00269A	2CBE	621	DC AL2(N00103)
00269C	0103	622	DC XL2'0103'
000067		623	EQN00103 EQU 0103
00269E	2CD6	624	DC AL2(N00104)
0026A0	0104	625	DC XL2'0104'
000068		626	EQN00104 EQU 0104
0026A2	2CEE	627	DC AL2(N00105)
0026A4	0105	628	DC XL2'0105'
000069		629	EQN00105 EQU 0105
0026A6	2D06	630	DC AL2(N00106)
0026A8	0106	631	DC XL2'0106'
00006A		632	EQN00106 EQU 0106
0026AA	2D0A	633	DC AL2(N00107)
0026AC	0107	634	DC XL2'0107'
00006B		635	EQN00107 EQU 0107
0026AE	2D0E	636	DC AL2(N00108)
0026B0	0108	637	DC XL2'0108'
00006C		638	EQN00108 EQU 0108
0026B2	2D12	639	DC AL2(N00109)
0026B4	0109	640	DC XL2'0109'
00006D		641	EQN00109 EQU 0109
0026B6	2D2A	642	DC AL2(N00110)
0026B8	0110	643	DC XL2'0110'
00006E		644	EQN00110 EQU 0110
0026BA	2D42	645	DC AL2(N00111)
0026BC	0111	646	DC XL2'0111'
00006F		647	EQN00111 EQU 0111
0026BE	2D5A	648	DC AL2(N00112)
0026C0	0112	649	DC XL2'0112'

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT
000070		650	EQN00112 EQU 0112
0026C2	2D74	651	DC AL2(N00113)
0026C4	0113	652	DC XL2'0113'
000071		653	EQN00113 EQU 0113
0026C6	2D8C	654	DC AL2(N00114)
0026C8	0114	655	DC XL2'0114'
000072		656	EQN00114 EQU 0114
0026CA	2D90	657	DC AL2(N00115)
0026CC	0115	658	DC XL2'0115'
000073		659	EQN00115 EQU 0115
0026CE	2DAE	660	DC AL2(N00116)
0026D0	0116	661	DC XL2'0116'
000074		662	EQN00116 EQU 0116
0026D2	2DB2	663	DC AL2(N00117)
0026D4	0117	664	DC XL2'0117'
000075		665	EQN00117 EQU 0117
0026D6	2DB6	666	DC AL2(N00118)
0026D8	0118	667	DC XL2'0118'
000076		668	EQN00118 EQU 0118
0026DA	2DBA	669	DC AL2(N00119)
0026DC	0119	670	DC XL2'0119'
000077		671	EQN00119 EQU 0119
0026DE	2DD2	672	DC AL2(N00120)
0026E0	0120	673	DC XL2'0120'
000078		674	EQN00120 EQU 0120
0026E2	2DD6	675	DC AL2(N00121)
0026E4	0121	676	DC XL2'0121'
000079		677	EQN00121 EQU 0121
0026E6	2DDA	678	DC AL2(N00122)
0026E8	0122	679	DC XL2'0122'
00007A		680	EQN00122 EQU 0122
0026EA	2DF8	681	DC AL2(N00123)
0026EC	0123	682	DC XL2'0123'
00007B		683	EQN00123 EQU 0123
0026EE	2DFC	684	DC AL2(N00124)
0026F0	0124	685	DC XL2'0124'
00007C		686	EQN00124 EQU 0124
0026F2	2E14	687	DC AL2(N00125)
0026F4	0125	688	DC XL2'0125'
00007D		689	EQN00125 EQU 0125
0026F6	2E2C	690	DC AL2(N00126)
0026F8	0126	691	DC XL2'0126'
00007E		692	EQN00126 EQU 0126
0026FA	2E44	693	DC AL2(N00127)
0026FC	0127	694	DC XL2'0127'
00007F		695	EQN00127 EQU 0127
0026FE	2E48	696	DC AL2(N00128)
002700	0128	697	DC XL2'0128'
000080		698	EQN00128 EQU 0128
002702	2E4C	699	DC AL2(N00129)
002704	0129	700	DC XL2'0129'
000081		701	EQN00129 EQU 0129
002706	2E50	702	DC AL2(N00130)
002708	0130	703	DC XL2'0130'
000082		704	EQN00130 EQU 0130
00270A	2E54	705	DC AL2(N00131)
00270C	0131	706	DC XL2'0131'
000083		707	EQN00131 EQU 0131
00270E	2E6C	708	DC AL2(N00132)
002710	0132	709	DC XL2'0132'
000084		710	EQN00132 EQU 0132
002712	2E70	711	DC AL2(N00133)
002714	0133	712	DC XL2'0133'
000085		713	EQN00133 EQU 0133
002716	2E88	714	DC AL2(N00134)
002718	0134	715	DC XL2'0134'
000086		716	EQN00134 EQU 0134
00271A	2E8C	717	DC AL2(N00135)
00271C	0135	718	DC XL2'0135'
000087		719	EQN00135 EQU 0135
00271E	0000	720	DC AL2(DUMMY)
		721	*****
		722	*****
		723	**
		724	**
		725	**
		726	*****
		727	*****
002720	0500	728	N00001 STUXX T7A10,7,00008000000080,OF,QT=(Q00006),YES=N00103, X
002722	2CBE	729	DC AL2(N00103)
002724	34AE	730	DC A(T7A10)
002726	0202	731	DC AL2(N00103)
002728	0007	732	DC A(T7A02)
00272A	000080000000080	733	DC AL2(7)
002730	00	734	DC X'000080000000080'
002732	0000	735	DC ALIGN WORD
002734	C1C1	736	DC AL2(0)
		737	DC C'AA'
002736	196E	738	DC ALIGN WORD
		739	DC AL2(PARMARA)
002738	0500	740	N00002 STUXX T7A02,7,000000000000000000000000100,OF,QT=(Q00042), X
00273A	2856	741	DC A(T7A02)
00273C	2F6A	742	DC AL2(N00022)
00273E	0202	743	DC A(T7A02)
002740	000E	744	DC AL2(OF)
002742	0000000000000000	745	DC AL2(14)
		746	DC X'000000000000000000000000100'
002750	0000	747	DC ALIGN WORD
002752	C1C1	748	DC AL2(0)
		749	DC C'AA'
002754	196E	750	DC ALIGN WORD
		751	DC AL2(PARMARA)
002756	0500	752	N00003 STUXX T7A02,7,000000000000020,ON,QT=(Q00007),YES=N00017, X
002758	281A	753	DC A(T7A02)
00275A	2F6A	754	DC AL2(N00017)
00275C	0200	755	DC A(T7A02)
00275E	0007	756	DC AL2(ON)
002760	0000000000000020	757	DC AL2(7)
002762	00	758	DC X'0000000000000020'
002764	0000	759	DC ALIGN WORD
002766	C1C1	760	DC AL2(0)
		761	DC C'AA'
002768	196E	762	DC ALIGN WORD
		763	DC AL2(PARMARA)

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
00276E	0500	764	N00004	STUXX T7A02,7,00004000000040,OF,QT=(Q00006),YES=N00014, X
002770	27FA	765	N00004	DC A(@TUXK)
002772	2F6A	766	N00004	DC AL2(N00014)
002774	0202	767	N00004	DC A(T7A02)
002776	0007	768	N00004	DC AL2(OF)
002778	000040000000040	769	N00004	DC AL2(7)
00277F	00	770	N00004	DC X'000040000000040'
002780	0000	771	N00004	ALIGN WORD
002782	C1C1	772	N00004	DC AL2(0)
		773	N00004	DC C'AA'
		774	N00004	ALIGN WORD
002784	196E	775	N00004	DC AL2(PARMARA)
002786	0500	776	N00005	STUXX T7A02,7,00000000000040,ON,QT=(Q00007),YES=N00011, X
002788	27FA	777	N00005	DC A(@TUXK)
00278A	2F6A	778	N00005	DC AL2(N00011)
00278C	0200	779	N00005	DC A(T7A02)
00278E	0007	780	N00005	DC AL2(ON)
002790	000000000000040	781	N00005	DC AL2(7)
002797	00	782	N00005	DC X'000000000000040'
002798	0000	783	N00005	ALIGN WORD
00279A	C1C1	784	N00005	DC AL2(0)
		785	N00005	DC C'AA'
		786	N00005	ALIGN WORD
00279C	196E	787	N00005	DC AL2(PARMARA)
00279E	0500	788	N00006	STUXX T7A02,8,0000004000000040,OF,QT=(Q00006),YES=N00010, X
0027A0	27FA	789	N00006	DC A(@TUXK)
0027A2	2F6A	790	N00006	DC AL2(N00010)
0027A4	0202	791	N00006	DC A(T7A02)
0027A6	0008	792	N00006	DC AL2(OF)
0027A8	0000004000000040	793	N00006	DC AL2(8)
		794	N00006	DC X'0000004000000040'
		795	N00006	ALIGN WORD
0027B0	0000	796	N00006	DC AL2(0)
0027B2	C1C1	797	N00006	DC C'AA'
		798	N00006	ALIGN WORD
0027B4	196E	799	N00006	DC AL2(PARMARA)
0027B6	0500	800	N00007	STUXX T7A02,8,0000004000000040,OF,QT=(Q00006),YES=N00009, X
0027B8	27FA	801	N00007	DC A(@TUXK)
0027BA	2F6A	802	N00007	DC AL2(N00009)
0027BC	0202	803	N00007	DC A(T7A02)
0027BE	0008	804	N00007	DC AL2(OF)
0027C0	0000000400000004	805	N00007	DC AL2(8)
		806	N00007	DC X'0000000400000004'
		807	N00007	ALIGN WORD
0027C8	0000	808	N00007	DC AL2(0)
0027CA	C1C1	809	N00007	DC C'AA'
		810	N00007	ALIGN WORD
0027CC	196E	811	N00007	DC AL2(PARMARA)
0027CE	0101	812	N00008	\$FIXT FT=(F00045),GTO=((7A70,D))
0027D0	2E98	813	N00008	DC A(@FIXT)
		814	N00008	DC A(F00045)
0027D2	0101	815	N00009	\$FIXT FT=(F00078),GTO=((7A76,F))
0027D4	2E98	816	N00009	DC A(@FIXT)
		817	N00009	DC A(F00078)
0027D6	0101	818	N00010	\$FIXT FT=(F00074),GTO=((7A72,B))
0027D8	2E98	819	N00010	DC A(@FIXT)
		820	N00010	DC A(F00074)
0027DA	0500	821	N00011	STUXX T7A02,8,0000001000000010,OF,QT=(Q00006),YES=N00013, X
0027DC	27FA	822	N00011	DC A(@TUXK)
0027DE	2F6A	823	N00011	DC AL2(N00013)
0027E0	0202	824	N00011	DC A(T7A02)
0027E2	0008	825	N00011	DC AL2(OF)
0027E4	0000001000000010	826	N00011	DC AL2(8)
		827	N00011	DC X'0000001000000010'
		828	N00011	ALIGN WORD
0027EC	0000	829	N00011	DC AL2(0)
0027EE	C1C1	830	N00011	DC C'AA'
		831	N00011	ALIGN WORD
0027F0	196E	832	N00011	DC AL2(PARMARA)
0027F2	0101	833	N00012	\$FIXT FT=(F00078),GTO=((7A76,F))
0027F4	2E98	834	N00012	DC A(@FIXT)
		835	N00012	DC A(F00078)
0027F6	0101	836	N00013	\$FIXT FT=(F00045),GTO=((7A70,D))
0027F8	2E98	837	N00013	DC A(@FIXT)
		838	N00013	DC A(F00045)
0027FA	0500	839	N00014	STUXX T7A02,8,0000001000000010,OF,QT=(Q00006),YES=N00016, X
0027FC	2816	840	N00014	DC A(@TUXK)
0027FE	2F6A	841	N00014	DC AL2(N00016)
002800	0202	842	N00014	DC A(T7A02)
002802	0008	843	N00014	DC AL2(OF)
002804	0000001000000010	844	N00014	DC AL2(8)
		845	N00014	DC X'0000001000000010'
		846	N00014	ALIGN WORD
00280C	0000	847	N00014	DC AL2(0)
00280E	C1C1	848	N00014	DC C'AA'
		849	N00014	ALIGN WORD
002810	196E	850	N00014	DC AL2(PARMARA)
002812	0101	851	N00015	\$FIXT FT=(F00078),GTO=((7A76,F))
002814	2E98	852	N00015	DC A(@FIXT)
		853	N00015	DC A(F00078)
002816	0101	854	N00016	\$FIXT FT=(F00044),GTO=((7A70,A))
002818	2E98	855	N00016	DC A(@FIXT)
		856	N00016	DC A(F00044)
00281A	0500	857	N00017	STUXX T7A02,7,00004000000040,OF,QT=(Q00006),YES=N00019, X
00281C	2836	858	N00017	DC A(@TUXK)
00281E	2F6A	859	N00017	DC AL2(N00019)
002820	0202	860	N00017	DC A(T7A02)
002822	0007	861	N00017	DC AL2(OF)
002824	000040000000040	862	N00017	DC AL2(7)
002826	00	863	N00017	DC X'000040000000040'
002828	0000	864	N00017	ALIGN WORD
00282E	C1C1	865	N00017	DC AL2(0)
		866	N00017	DC C'AA'
		867	N00017	ALIGN WORD
002830	196E	868	N00017	DC AL2(PARMARA)
002832	0101	869	N00018	\$FIXT FT=(F00082),GTO=((7A76,R))
002834	2ECC	870	N00018	DC A(@FIXT)
		871	N00018	DC A(F00082)
002836	0500	872	N00019	STUXX T7A02,8,0000004000000040,OF,QT=(Q00006),YES=N00021, X
002838	2852	873	N00019	DC A(@TUXK)
00283A	2F6A	874	N00019	DC AL2(N00021)
00283C	0202	875	N00019	DC A(T7A02)
00283E	0008	876	N00019	DC AL2(OF)
		877	N00019	DC AL2(8)

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002840	0000000400000004	878	N00020	DC X'0000000400000004'
002848	0000	879	N00020	ALIGN WORD
00284A	C1C1	880	N00020	DC AL2(0)
		881	N00020	DC C'AA'
		882	N00020	ALIGN WORD
00284C	196E	883	N00020	DC AL2(PARMARA)
00284E	0101	884	N00020	\$FIXT FT=(F00045),GTO=((7A70,D))
002850	2E98	885	N00020	DC A(@FIXT)
		886	N00020	DC A(F00045)
002852	0101	887	N00021	\$FIXT FT=(F00078),GTO=((7A76,F))
002854	2E98	888	N00021	DC A(@FIXT)
		889	N00021	DC A(F00078)
002856	0500	890	N00022	STUXX T7A02,9,00000008000000080,OF,QT=(Q00006),YES=N00054, X
002858	2A1A	891	N00022	DC A(@TUXK)
00285A	2F6A	892	N00022	DC AL2(N00054)
00285C	0202	893	N00022	DC A(T7A02)
00285E	0009	894	N00022	DC AL2(OF)
002860	0000000800000008	895	N00022	DC AL2(9)
002862	00	896	N00022	DC X'00000008000000080'
002864	0000	897	N00022	ALIGN WORD
002866	C1C1	898	N00022	DC AL2(0)
		899	N00022	DC C'AA'
		900	N00022	ALIGN WORD
00286E	196E	901	N00023	DC AL2(PARMARA)
002870	0500	902	N00023	STUXX T7A02,9,00000008000000080,ON,QT=(Q00007),YES=N00043, X
002872	298A	903	N00023	DC A(@TUXK)
002874	2F6A	904	N00023	DC AL2(N00043)
002876	0200	905	N00023	DC A(T7A02)
002878	0009	906	N00023	DC AL2(ON)
00287A	0000000000000008	907	N00023	DC AL2(9)
002884	0000	908	N00023	DC X'00000000000000080'
002886	C1C1	909	N00023	ALIGN WORD
		910	N00023	DC AL2(0)
		911	N00023	DC C'AA'
		912	N00023	ALIGN WORD
002888	196E	913	N00024	DC AL2(PARMARA)
00288A	0500	914	N00024	STUXX T7A02,8,0000000000000040,ON,QT=(Q00007),YES=N00040, X
00288C	296A	915	N00024	DC A(@TUXK)
00288E	2F6A	916	N00024	DC AL2(N00040)
002890	0200	917	N00024	DC A(T7A02)
002892	0008	918	N00024	DC AL2(ON)
002894	0000000000000004	919	N00024	DC AL2(8)
		920	N00024	DC X'0000000000000004'
		921	N00024	ALIGN WORD
00289C	0000	922	N00024	DC AL2(0)
00289E	C1C1	923	N00024	DC C'AA'
		924	N00024	ALIGN WORD
0028A0	196E	925	N00025	DC AL2(PARMARA)
0028A2	0500	926	N00025	STUXX T7A02,7,000000000000040,ON,QT=(Q00007),YES=N00037, X
0028A4	294A	927	N00025	DC A(@TUXK)
0028A6	2F6A	928	N00025	DC AL2(N00037)
0028A8	0200	929	N00025	DC A(T7A02)
0028AA	0007	930	N00025	DC AL2(ON)
0028AC	0000000000000040	931	N00025	DC AL2(7)
0028AE	00	932	N00025	DC X'0000000000000040'
0028B0	0000	933	N00025	ALIGN WORD
0028B2	C1C1	934	N00025	DC AL2(0)
		935	N00025	DC C'AA'
		936	N00025	ALIGN WORD
0028B8	196E	937	N00026	DC AL2(PARMARA)
0028BA	0500	938	N00026	STUXX T7A02,7,00004000000040,OF,QT=(Q00006),YES=N00034, X
0028BC	292A	939	N00026	DC A(@TUXK)
0028BE	2F6A	940	N00026	DC AL2(N00034)
0028C0	0202	941	N00026	DC A(T7A02)
0028C2	0007	942	N00026	DC AL2(OF)
0028C4	0000400000000040	943	N00026	DC AL2(7)
0028C6	00	944	N00026	DC X'0000400000000040'
0028C8	0000	945	N00026	ALIGN WORD
0028CA	C1C1	946	N00026	DC AL2(0)
		947	N00026	DC C'AA'
		948	N00026	ALIGN WORD
0028D0	196E	949	N00027	DC AL2(PARMARA)
0028D2	0500	950	N00027	STUXX T7A02,7,00000100000001,OF,QT=(Q00006),YES=N00029, X
0028D4	28EE	951	N00027	DC A(@TUXK)
0028D6	2F6A	952	N00027	DC AL2(N00029)
00				

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002922	0101	992	N00032 \$FIXT FT=(F00078),GTO=((7A76,F))	
002924	2EA6	993+	N00032 DC A(@FIXT)	
002926	0101	994+	N00033 \$FIXT FT=(F00052),GTO=((7A70,E))	
002928	2ED8	995+	N00033 DC A(@FIXT)	
00292A	0500	996+	N00033 DC A(F00052)	
00292C	2946	997+	N00034 \$TUXX T7A02,7,00000000000080,ON,QT=(Q00007),YES=N00036,	X
00292E	2F6A	998+	N00034 DC A(@TUXX)	
002930	0200	1000+	DC AL2(N00036)	
002932	0007	1001+	DC A(T7A02)	
002934	00000000000080	1002+	DC AL2(ON)	
00293B	00	1003+	DC AL2(7)	
00293C	0000	1004+	DC X'000000000000080'	
00293E	C1C1	1005+	ALIGN WORD	
		1006+	DC AL2(0)	
		1007+	DC C'AA'	
		1008+	ALIGN WORD	
002940	196E	1009+	DC AL2(PARMARA)	
002942	0101	1010	N00035 \$FIXT FT=(F00078),GTO=((7A76,F))	
002944	2EA6	1011+	N00035 DC A(@FIXT)	
		1012+	DC A(F00078)	
002946	0101	1013	N00036 \$FIXT FT=(F00082),GTO=((7A76,R))	
002948	2ECC	1014+	N00036 DC A(@FIXT)	
		1015+	DC A(F00082)	
00294A	0500	1016	N00037 \$TUXX T7A02,8,0000000400000004,OF,QT=(Q00006),YES=N00039,	X
00294C	2966	1017+	N00037 DC A(@TUXX)	
00294E	2F6A	1018+	DC AL2(N00039)	
002950	0202	1019+	DC A(T7A02)	
002952	0008	1020+	DC AL2(OF)	
002954	0000000400000004	1021+	DC AL2(7)	
		1022+	DC X'0000000400000004'	
		1023+	ALIGN WORD	
00295C	0000	1024+	DC AL2(0)	
00295E	C1C1	1025+	DC C'AA'	
		1026+	ALIGN WORD	
002960	196E	1027+	DC AL2(PARMARA)	
002962	0101	1028	N00038 \$FIXT FT=(F00082),GTO=((7A76,R))	
002964	2ECC	1029+	N00038 DC A(@FIXT)	
		1030+	DC A(F00082)	
002966	0101	1031	N00039 \$FIXT FT=(F00078),GTO=((7A76,F))	
002968	2EA6	1032+	N00039 DC A(@FIXT)	
		1033+	DC A(F00078)	
00296A	0500	1034	N00040 \$TUXX T7A02,7,00000000000040,ON,QT=(Q00007),YES=N00042,	X
00296C	2986	1035+	N00040 DC A(@TUXX)	
00296E	2F6A	1036+	DC AL2(N00042)	
002970	0200	1037+	DC A(T7A02)	
002972	0007	1038+	DC AL2(ON)	
002974	000000000000040	1039+	DC AL2(7)	
00297B	00	1040+	DC X'000000000000040'	
00297C	0000	1041+	ALIGN WORD	
00297E	C1C1	1042+	DC AL2(0)	
		1043+	DC C'AA'	
		1044+	ALIGN WORD	
002980	196E	1045+	DC AL2(PARMARA)	
002982	0101	1046	N00041 \$FIXT FT=(F00078),GTO=((7A76,F))	
002984	2EA6	1047+	N00041 DC A(@FIXT)	
		1048+	DC A(F00078)	
002986	0101	1049	N00042 \$FIXT FT=(F00045),GTO=((7A70,D))	
002988	2E98	1050+	N00042 DC A(@FIXT)	
		1051+	DC A(F00045)	
00298A	0500	1052	N00043 \$TUXX T7A02,8,0000000400000004,OF,QT=(Q00006),YES=N00049,	X
00298C	29DE	1053+	N00043 DC A(@TUXX)	
00298E	2F6A	1054+	DC AL2(N00049)	
002990	0202	1055+	DC A(T7A02)	
002992	0008	1056+	DC AL2(OF)	
002994	0000000400000004	1057+	DC AL2(7)	
		1058+	DC X'0000000400000004'	
		1059+	ALIGN WORD	
00299C	0000	1060+	DC AL2(0)	
00299E	C1C1	1061+	DC C'AA'	
		1062+	ALIGN WORD	
0029A0	196E	1063+	DC AL2(PARMARA)	
0029A2	0500	1064	N00044 \$TUXX T7A02,7,00000000000080,ON,QT=(Q00007),YES=N00048,	X
0029A4	29DA	1065+	N00044 DC A(@TUXX)	
0029A6	2F6A	1066+	DC AL2(N00048)	
0029A8	0200	1067+	DC A(T7A02)	
0029AA	0007	1068+	DC AL2(ON)	
0029AC	00000000000080	1069+	DC AL2(7)	
0029B3	00	1070+	DC X'000000000000080'	
0029B4	0000	1071+	ALIGN WORD	
0029B6	C1C1	1072+	DC AL2(0)	
		1073+	DC C'AA'	
		1074+	ALIGN WORD	
0029B8	196E	1075+	DC AL2(PARMARA)	
0029BA	0500	1076	N00045 \$TUXX T7A02,7,00004000000004,OF,QT=(Q00006),YES=N00047,	X
0029BC	29D6	1077+	N00045 DC A(@TUXX)	
0029BE	2F6A	1078+	DC AL2(N00047)	
0029C0	0202	1079+	DC A(T7A02)	
0029C2	0007	1080+	DC AL2(OF)	
0029C4	000040000000040	1081+	DC AL2(7)	
		1082+	DC X'000040000000040'	
		1083+	ALIGN WORD	
0029CC	0000	1084+	DC AL2(0)	
0029CE	C1C1	1085+	DC C'AA'	
		1086+	ALIGN WORD	
0029D0	196E	1087+	DC AL2(PARMARA)	
0029D2	0101	1088	N00046 \$FIXT FT=(F00078),GTO=((7A76,F))	
0029D4	2EA6	1089+	N00046 DC A(@FIXT)	
		1090+	DC A(F00078)	
0029D6	0101	1091	N00047 \$FIXT FT=(F00082),GTO=((7A76,R))	
0029D8	2ECC	1092+	N00047 DC A(@FIXT)	
		1093+	DC A(F00082)	
0029DA	0101	1094	N00048 \$FIXT FT=(F00082),GTO=((7A76,R))	
0029DC	2ECC	1095+	N00048 DC A(@FIXT)	
		1096+	DC A(F00082)	
0029DE	0500	1097	N00049 \$TUXX T7A02,7,00000000000080,ON,QT=(Q00007),YES=N00051,	X
0029E0	29FA	1098+	N00049 DC A(@TUXX)	
0029E2	2F6A	1099+	DC AL2(N00051)	
0029E4	0200	1100+	DC A(T7A02)	
0029E6	0007	1101+	DC AL2(ON)	
0029EB	00000000000080	1102+	DC AL2(7)	
0029EF	00	1103+	DC X'000000000000080'	
0029F0	0000	1104+	ALIGN WORD	
		1105+	DC AL2(0)	

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
0029F2	C1C1	1106+	DC C'AA'	
		1107+	ALIGN WORD	
0029F4	196E	1108+	DC AL2(PARMARA)	
0029F6	0101	1109	N00050 \$FIXT FT=(F00081),GTO=((7A76,Q))	
0029F8	2EE6	1110+	N00050 DC A(@FIXT)	
		1111+	DC A(F00081)	
0029FA	0500	1112	N00051 \$TUXX T7A02,7,00004000000040,OF,QT=(Q00006),YES=N00053,	X
0029FC	2A16	1113+	N00051 DC A(@TUXX)	
0029FE	2F6A	1114+	DC AL2(N00053)	
002A00	0202	1115+	DC A(T7A02)	
002A02	0007	1116+	DC AL2(OF)	
002A04	000040000000040	1117+	DC AL2(7)	
002A0B	00	1118+	DC X'000040000000040'	
002A0C	0000	1119+	ALIGN WORD	
002A0E	C1C1	1120+	DC AL2(0)	
		1121+	DC C'AA'	
		1122+	ALIGN WORD	
002A10	196E	1123+	DC AL2(PARMARA)	
002A12	0101	1124	N00052 \$FIXT FT=(F00078),GTO=((7A76,F))	
002A14	2EA6	1125+	N00052 DC A(@FIXT)	
		1126+	DC A(F00078)	
002A16	0101	1127	N00053 \$FIXT FT=(F00081),GTO=((7A76,Q))	
002A18	2EE6	1128+	N00053 DC A(@FIXT)	
		1129+	DC A(F00081)	
002A1A	0500	1130	N00054 \$TUXX T7A02,7,0000100000001,OF,QT=(Q00006),YES=N00058,	X
002A1C	2A52	1131+	N00054 DC A(@TUXX)	
002A1E	2F6A	1132+	DC AL2(N00058)	
002A20	0202	1133+	DC A(T7A02)	
002A22	0007	1134+	DC AL2(OF)	
002A24	00001000000001	1135+	DC AL2(7)	
002A2B	00	1136+	DC X'00001000000001'	
002A2C	0000	1137+	ALIGN WORD	
002A2E	C1C1	1138+	DC AL2(0)	
		1139+	DC C'AA'	
		1140+	ALIGN WORD	
002A30	196E	1141+	DC AL2(PARMARA)	
002A32	0500	1142	N00055 \$TUXX T7A02,7,00004000000040,OF,QT=(Q00006),YES=N00057,	X
002A34	2A4E	1143+	N00055 DC A(@TUXX)	
002A36	2F6A	1144+	DC AL2(N00057)	
002A38	0202	1145+	DC A(T7A02)	
002A3A	0007	1146+	DC AL2(OF)	
002A3C	000040000000040	1147+	DC AL2(7)	
002A43	00	1148+	DC X'000040000000040'	
002A44	0000	1149+	ALIGN WORD	
002A46	C1C1	1150+	DC AL2(0)	
		1151+	DC C'AA'	
		1152+	ALIGN WORD	
002A48	196E	1153+	DC AL2(PARMARA)	
002A4A	0101	1154	N00056 \$FIXT FT=(F00047),GTO=((7A70,R))	
002A4C	2EF2	1155+	N00056 DC A(@FIXT)	
		1156+	DC A(F00047)	
002A4E	0101	1157	N00057 \$FIXT FT=(F00044),GTO=((7A70,A))	
002A50	2EBE	1158+	N00057 DC A(@FIXT)	
		1159+	DC A(F00044)	
002A52	0500	1160	N00058 \$TUXX T7A02,8,000008000000080,OF,QT=(Q00006),YES=N00090,	X
002A54	2C12	1161+	N00058 DC A(@TUXX)	
002A56	2F6A	1162+	DC AL2(N00090)	
002A58	0202	1163+	DC A(T7A02)	
002A5A	0008	1164+	DC AL2(OF)	
002A5C	0000080000000080	1165+	DC AL2(8)	
		1166+	DC X'0000080000000080'	
		1167+	ALIGN WORD	
002A64	0000	1168+	DC AL2(0)	
002A66	C1C1	1169+	DC C'AA'	
		1170+	ALIGN WORD	
002A68	196E	1171+	DC AL2(PARMARA)	
002A6A	0500	1172	N00059 \$TUXX T7A02,8,000002000000020,OF,QT=(Q00006),YES=N00065,	X
002A6C	2ABE	1173+	N00059 DC A(@TUXX)	
002A6E	2F6A	1174+	DC AL2(N00065)	
002A70	0202	1175+	DC A(T7A02)	
002A72	0008	1176+	DC AL2(OF)	
002A74	0000020000000020	1177+	DC AL2(8)	
		1178+	DC X'0000020000000020'	
		1179+	ALIGN WORD	
002A7C	0000	1180+	DC AL2(0)	
002A7E	C1C1	1181+	DC C'AA'	
		1182+	ALIGN WORD	
002A80	196E	1183+	DC AL2(PARMARA)	
002A82	0500	1184	N00060 \$TUXX T7A02,7,00000000000040,ON,QT=(Q00007),YES=N00062,	X
002A84	2A9E	1185+	N00060 DC A(@TUXX)	
002A86	2F6A	1186+	DC AL2(N00062)	
002A88	0200	1187+	DC A(T7A02)	
002A8A	0007	1188+	DC AL2(ON)	
002A8C	000000000000040	1189+	DC AL2(7)	
002A93	00	1190+	DC X'000000000000040'	
002A94	0000	1191+	ALIGN WORD	
002A96	C1C1	1192+	DC AL2(0)	
		1193+	DC C'AA'	
		1194+	ALIGN WORD	
002A98	196E	1195+	DC AL2(PARMARA)	
002A9A	0101	1196	N00061 \$FIXT FT=(F00044),GTO=((7A70,A))	
002A9C	2EBE	1197+	N00061 DC A(@FIXT)	
		1198+	DC A(F0004	

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

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LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002C6C	0000000400000004	1448+	DC X*0000000400000004*	
002C74	0000	1449+	ALIGN WORD	
002C76	C1C1	1450+	DC AL2(0)	
		1451+	DC C'AA'	
		1452+	ALIGN WORD	
002C78	196E	1453+	DC AL2(PARMARA)	
		1454	\$FIXT FT=(F00082),GTO=((7A76,R))	
002C7A	0101	1455+N00096	DC A(@FIXT)	
002C7C	2ECC	1456+	DC A(F00082)	
		1457	\$TUXX T7A02,7,00000000000080,ON,QT=(Q00007),YES=N00099,	X
		1458+N00097	DC A(@TUXX)	
002C7E	0500	1459+	DC AL2(N00099)	
002C80	2C9A	1460+	DC A(T7A02)	
002C82	2F6A	1461+	DC AL2(ON)	
002C84	0200	1462+	DC AL2(7)	
002C86	0007	1463+	DC X*0000000000000080*	
002C88	000000000000080	1464+	ALIGN WORD	
002C8F	00	1465+	DC AL2(0)	
002C90	0000	1466+	DC C'AA'	
002C92	C1C1	1467+	ALIGN WORD	
		1468+	DC AL2(PARMARA)	
002C94	196E	1469	\$FIXT FT=(F00081),GTO=((7A76,Q))	
		1470+N00098	DC A(@FIXT)	
002C96	0101	1471+	DC A(F00081)	
002C98	2E66	1472	\$FIXT FT=(F00082),GTO=((7A76,R))	
		1473+N00099	DC A(@FIXT)	
		1474+	DC A(F00082)	
002C9A	0101	1475	\$TUXX T7A02,8,0000000400000004,OF,QT=(Q00006),YES=N00102,	X
002C9C	2ECC	1476+N00100	DC A(@TUXX)	
		1477+	DC AL2(N00102)	
002CA0	0500	1478+	DC A(T7A02)	
002CA2	2CBA	1479+	DC AL2(OF)	
002CA4	2F6A	1480+	DC AL2(8)	
002CA6	0202	1481+	DC X*0000000400000004*	
002CA8	0008	1482+	ALIGN WORD	
		1483+	DC AL2(0)	
002CB0	0000	1484+	DC C'AA'	
002CB2	C1C1	1485+	ALIGN WORD	
		1486+	DC AL2(PARMARA)	
002CB4	196E	1487	\$FIXT FT=(F00045),GTO=((7A70,D))	
		1488+N00101	DC A(@FIXT)	
002CB6	0101	1489+	DC A(F00045)	
002CB8	2E98	1490	\$FIXT FT=(F00052),GTO=((7A70,E))	
		1491+N00102	DC A(@FIXT)	
002CBA	0101	1492+	DC A(F00052)	
002CBC	2ED8	1493	\$TUXX T7A02,8,0000001000000010,OF,QT=(Q00006),YES=N00109,	X
		1494+N00103	DC A(@TUXX)	
002CBE	0500	1495+	DC AL2(N00109)	
002CC0	2D12	1496+	DC A(T7A02)	
002CC2	2F6A	1497+	DC AL2(OF)	
002CC4	0202	1498+	DC AL2(8)	
002CC6	0008	1499+	DC X*0000001000000010*	
002CC8	0000001000000010	1500+	ALIGN WORD	
		1501+	DC AL2(0)	
002CD0	0000	1502+	DC C'AA'	
002CD2	C1C1	1503+	ALIGN WORD	
		1504+	DC AL2(PARMARA)	
002CD4	196E	1505	\$TUXX T7A02,7,00000000000020,ON,QT=(Q00007),YES=N00108,	X
		1506+N00104	DC A(@TUXX)	
002CD6	0500	1507+	DC AL2(N00108)	
002CD8	2D0E	1508+	DC A(T7A02)	
002CDA	2F6A	1509+	DC AL2(ON)	
002CDC	0200	1510+	DC AL2(7)	
002CDE	0007	1511+	DC X*0000000000000020*	
002CE0	000000000000020	1512+	ALIGN WORD	
002CE2	00	1513+	DC AL2(0)	
002CE4	0000	1514+	DC C'AA'	
002CE6	C1C1	1515+	ALIGN WORD	
		1516+	DC AL2(PARMARA)	
002CE8	196E	1517	\$TUXX T7A02,7,00000400000004,OF,QT=(Q00006),YES=N00107,	X
		1518+N00105	DC A(@TUXX)	
002CEE	0500	1519+	DC AL2(N00107)	
002CF0	2D0A	1520+	DC A(T7A02)	
002CF2	2F6A	1521+	DC AL2(ON)	
002CF4	0202	1522+	DC AL2(7)	
002CF6	0007	1523+	DC X*000004000000040*	
002CF8	000040000000040	1524+	ALIGN WORD	
002CFE	00	1525+	DC AL2(0)	
002D00	0000	1526+	DC C'AA'	
002D02	C1C1	1527+	ALIGN WORD	
		1528+	DC AL2(PARMARA)	
002D04	196E	1529	\$FIXT FT=(F00081),GTO=((7A76,Q))	
		1530+N00106	DC A(@FIXT)	
002D06	0101	1531+	DC A(F00081)	
002D08	2E66	1532	\$FIXT FT=(F00052),GTO=((7A70,E))	
		1533+N00107	DC A(@FIXT)	
002D0A	0101	1534+	DC A(F00052)	
002D0C	2ED8	1535	\$FIXT FT=(F00082),GTO=((7A76,R))	
		1536+N00108	DC A(@FIXT)	
002D0E	0101	1537+	DC A(F00082)	
002D10	2ECC	1538	\$TUXX T7A02,7,00000000000020,ON,QT=(Q00007),YES=N00131,	X
		1539+N00109	DC A(@TUXX)	
002D12	0500	1540+	DC AL2(N00131)	
002D14	2E54	1541+	DC A(T7A02)	
002D16	2F6A	1542+	DC AL2(ON)	
002D18	0200	1543+	DC AL2(7)	
002D1A	0007	1544+	DC X*0000000000000020*	
002D1C	000000000000020	1545+	ALIGN WORD	
002D1E	00	1546+	DC AL2(0)	
002D20	0000	1547+	DC C'AA'	
002D22	C1C1	1548+	ALIGN WORD	
		1549+	DC AL2(PARMARA)	
002D24	196E	1550	\$TUXX T7A02,7,00000400000004,OF,QT=(Q00006),YES=N00122,	X
		1551+N00110	DC A(@TUXX)	
002D26	0500	1552+	DC AL2(N00122)	
002D28	2DDA	1553+	DC A(T7A02)	
002D2A	2F6A	1554+	DC AL2(OF)	
002D2C	0202	1555+	DC AL2(7)	
002D2E	0007	1556+	DC X*000004000000040*	
002D30	000040000000040	1557+	ALIGN WORD	
002D32	00	1558+	DC AL2(0)	
002D34	0000	1559+	DC C'AA'	
002D36	C1C1	1560+	ALIGN WORD	
		1561+	DC AL2(PARMARA)	

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002D42	0500	1562	\$TUXX T7A02,8,0000000400000004,ON,QT=(Q00007),YES=N00119,	X
002D44	2DBA	1563+N00111	DC A(@TUXX)	
002D46	2F6A	1564+	DC AL2(N00119)	
002D48	0200	1565+	DC A(T7A02)	
002D4A	0008	1566+	DC AL2(ON)	
002D4C	0000000400000004	1567+	DC AL2(8)	
		1568+	DC X*0000000400000004*	
		1569+	ALIGN WORD	
002D54	0000	1570+	DC AL2(0)	
002D56	C1C1	1571+	DC C'AA'	
		1572+	ALIGN WORD	
		1573+	DC AL2(PARMARA)	
002D58	196E	1574	\$TUXX T7A02,8,0000000200000020,OF,QT=(Q00006),YES=N00118,	X
		1575+N00112	DC A(@TUXX)	
002D5A	0500	1576+	DC AL2(N00118)	
002D5C	2DB6	1577+	DC A(T7A02)	
002D5E	2F6A	1578+	DC AL2(OF)	
002D60	0202	1579+	DC AL2(9)	
002D62	0009	1580+	DC X*0000000200000020*	
002D64	0000000200000002	1581+	ALIGN WORD	
002D66	00	1582+	DC AL2(0)	
002D68	0000	1583+	DC C'AA'	
002D70	C1C1	1584+	ALIGN WORD	
		1585+	DC AL2(PARMARA)	
002D72	196E	1586	\$TUXX T7A02,7,00000000000004,ON,QT=(Q00007),YES=N00115,	X
		1587+N00113	DC A(@TUXX)	
002D74	0500	1588+	DC AL2(N00115)	
002D76	2D90	1589+	DC A(T7A02)	
002D78	2F6A	1590+	DC AL2(ON)	
002D7A	0200	1591+	DC AL2(7)	
002D7C	0007	1592+	DC X*0000000000000040*	
002D7E	0000000000000040	1593+	ALIGN WORD	
002D80	00	1594+	DC AL2(0)	
002D82	0000	1595+	DC C'AA'	
002D84	C1C1	1596+	ALIGN WORD	
		1597+	DC AL2(PARMARA)	
002D8A	196E	1598	\$FIXT FT=(F00045),GTO=((7A70,D))	
		1599+N00114	DC A(@FIXT)	
002D8C	0101	1600+	DC A(F00045)	
002D8E	2E98	1601	\$TUXX T7A02,14,00000000000000000000100,OF,QT=(Q00042),	X
		1602+N00115	DC A(@TUXX)	
002D90	0500	1603+	DC AL2(N00117)	
002D92	2DE2	1604+	DC A(T7A02)	
002D94	2F6A	1605+	DC AL2(OF)	
002D96	0202	1606+	DC AL2(14)	
002D98	000E	1607+	DC X*00000000000000000000000000100*	
002D9A	000000000000000000	1608+	ALIGN WORD	
		1609+	DC AL2(0)	
002DA8	0000	1610+	DC C'AA'	
002DAA	C1C1	1611+	ALIGN WORD	
		1612+	DC AL2(PARMARA)	
002DAC	196E	1613	\$FIXT FT=(F00045),GTO=((7A70,D))	
		1614+N00116	DC A(@FIXT)	
002DAE	0101	1615+	DC A(F00045)	
002DAB	2E98	1616	\$FIXT FT=(F00052),GTO=((7A70,E))	
		1617+N00117	DC A(@FIXT)	
002DB2	0101	1618+	DC A(F00052)	
002DB4	2ED8	1619	\$FIXT FT=(F00033),GTO=((7A70,C))	
		1620+N00118	DC A(@FIXT)	
002DB6	0101	1621+	DC A(F00033)	
002DB8	2F00	1622	\$TUXX T7A02,7,00000000000004,ON,QT=(Q00007),YES=N00121,	X
		1623+N00119	DC A(@TUXX)	
002DBA	0500	1624+	DC AL2(N00121)	
002DBC	2DD6	1625+	DC A(T7A02)	
002DBE	2F6A	1626+	DC AL2(ON)	
002DC0	0200	1627+	DC AL2(7)	
002DC2	0007	1628+	DC X*0000000000000040*	
002DC4	0000000000000040	1629+	ALIGN WORD	
002DC6	00	1630+	DC AL2(0)	
002DC8	0000	1631+	DC C'AA'	
002DCC	C1C1	1632+	ALIGN WORD	
		1633+	DC AL2(PARMARA)	
002DD0	196E	1634	\$FIXT FT=(F00083),GTO=((7A76,U))	
		1635+N00120	DC A(@FIXT)	
002DD2	0101	1636+	DC A(F00083)	
002DD4	2F0E	1637	\$FIXT FT=(F00052),GTO=((7A70,E))	
		1638+N00121	DC A(@FIXT)	
002DD6	0101	1639+	DC A(F00052)	
002DD8	2ED8	1640	\$TUXX T7A02,14,00000000000000000000100,OF,QT=(Q00042),	X
		1641+N00122	DC A(@TUXX)	
002DDA	0500	1642+	DC AL2(N00124)	
002DDC	2DFC	1643+	DC A(T7A02)	
002DDE	2F6A	1644+	DC AL2(OF)	
002DE0	0202	1645+	DC AL2(14)	
002DE2	000E	1646+	DC X*00000000000000000000000000100*	
002DE4	000000000000000000	1647+	ALIGN WORD	
		1648+	DC AL2(0)	
002DF2	0000	1649+	DC C'AA'	
002DF4	C1C1	1650+	ALIGN WORD	
		1651+	DC AL2(PARMARA)	
002DF6	196E	1652	\$FIXT FT=(F00045),GTO=((7A70,D))	
		1653+N00123</		

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
002E28 C1C1 1676+ DC C'AA'
1677+ ALIGN WORD
002E2A 196E 1678+ DC AL2(PARMARA)
1679 N00126 \$TUXX T7A02,8,0000000000000004,ON,QT=(Q00007),YES=N00128, X
1680+N00126 DC A(@TUXX)
1681+ DC AL2(N00128)
1682+ DC A(T7A02)
1683+ DC AL2(ON)
1684+ DC AL2(8)
1685+ DC X'0000000000000004'

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
002F02 000A 1790 DC A(0010)
002F04 D4C1D7F7C1F7F060C 1791 DC CL0010'MAP7A70-C '
002F0E EQU \*
002F0E 0001 1792 F00083 EQU \*
002F10 0008 1793 DC AL2(0001)
002F12 D4C1D7F7C1F7F6E4 1794 DC A(0008)
1795 DC CL0008'MAP7A76U'

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
000000		1908	OUT EQU 0	OUT SVC
000001		1909	OUTIN EQU 1	OUTIN SVC
000002		1910	IDLE EQU 2	IDLE SVC
000003		1911	IDLES EQU 3	IDLE SVC - INDEPENDENT OF CPU TYPE
000004		1912	CHNGE EQU 4	CHANGE LEVEL SVC
000005		1913	PGMCK EQU 5	ALLOW RETURN ON PROGRAM CHECK SVC
000006		1914	EXIT EQU 6	EXIT SVC
000007		1915	TERM EQU 7	TERMINATE SVC
000008		1916	RESET EQU 8	RESET DEVICE SVC
000009		1917	RID EQU 9	READ ID SVC
00000A		1918	START EQU 10	START CYCLE STEAL SVC
00000B		1919	STCSS EQU 11	START CYCLE STEAL STATUS SVC
00000C		1920	PREP EQU 12	PREPAPE DEVICE SVC
00000D		1921	READ0 EQU 13	READ WITH FUNCTION BIT 3 OFF SVC
00000E		1922	READ1 EQU 14	READ WITH FUNCTION BIT 3 ON SVC
00000F		1923	RSTAT EQU 15	READ STATUS SVC
000010		1924	WRIT0 EQU 16	WRITE WITH FUNCTION BIT 3 OFF SVC
000011		1925	WRIT1 EQU 17	WRITE WITH FUNCTION BIT 3 ON SVC
000012		1926	CTRL EQU 18	CONTROL SVC
000013		1927	RICB EQU 19	RELEASE INTERRUPT CONTROL BLOCK SVC
000014		1928	CICB EQU 20	CONNECT INTERRUPT CONTROL BLOCK SVC
000015		1929	HIO EQU 21	HALT ALL I/O
000016		1930	REOSD EQU 22	REQUEST USE OF DCP DISK SVC
000017		1931	REISD EQU 23	RELEASE USE OF DCP DISK SVC
000018		1932	HALT EQU 24	HALT SVC
000019		1933	ETOH EQU 25	EBCDIC TO HEX SVC (STRING)
00001A		1934	HTOE EQU 26	HEX TO EBCDIC SVC (STRING)
00001B		1935	ATOH EQU 27	ASCII TO HEX SVC (STRING)
00001C		1936	HTOA EQU 28	HEX TO ASCII SVC (STRING)
00001D		1937	ETOA EQU 29	EBCDIC TO ASCII SVC (STRING)
00001E		1938	ATOE EQU 30	ASCII TO EBCDIC SVC (STRING)
00001F		1939	READI EQU 31	READ DATA SETS FOR MDI/UTIL
000020		1940	WRITI EQU 32	WRITE DATA SETS FOR UTIL
1942		*	*****	*****
1943		*		*
1944		*	EQUATES USED BY TU'S AS CONSTANTS	*
1945		*		*
1946		*	*****	*****
1947	PLUS	EQU	C'+'	PLUS CHAR
1948	MINUS	EQU	C'-'	MINUS CHAR
1950	ZERO	EQU	0	
1951	ONE	EQU	1	
1952	TWO	EQU	2	
1953	THREE	EQU	3	
1954	FOUR	EQU	4	
1955	FIVE	EQU	5	
1956	SIX	EQU	6	
1957	SEVEN	EQU	7	
1958	EIGHT	EQU	8	
1959	NINE	EQU	9	
1960	TEN	EQU	10	
1961	ELEVN	EQU	11	
1962	TWELV	EQU	12	
1963	THIRN	EQU	13	
1964	FIVTN	EQU	14	
1965	SIXTN	EQU	15	
1966	THRY2	EQU	32	
1967	SIXT4	EQU	64	
1968	ONE28	EQU	128	
1969	TWO56	EQU	256	
1970	ONEK	EQU	1024	
1971	TWOK	EQU	2048	
1972	THREK	EQU	3072	
1973	FOURK	EQU	4096	
1975	M1	EQU	-1	
1976	M2	EQU	-2	
1977	M3	EQU	-3	
1978	M4	EQU	-4	
1980		*	*****	*****
1981		*		*
1982		*	THE FOLLOWING ARE EQUATES FOR BIT DISPLACEMENTS FROM THE	*
1983		*	BEGINNING OF THE BYTE TO EACH BIT IN THE WORD OF SWITCHES.	*
1984		*		*
1985		*	*****	*****
1986	BS0	EQU	0	
1987	BS1	EQU	1	
1988	BS2	EQU	2	
1989	BS3	EQU	3	
1990	BS4	EQU	4	
1991	BS5	EQU	5	
1992	BS6	EQU	6	
1993	BS7	EQU	7	
1994	BS8	EQU	8	
1995	BS9	EQU	9	
1996	BS10	EQU	10	
1997	BS11	EQU	11	
1998	BS12	EQU	12	
1999	BS13	EQU	13	
2000	BS14	EQU	14	
2001	BS15	EQU	15	
2003		**	COPY T7A00DCB	23JAN78
2004		**	(T7A00DCB)	
2005		*		*
2006		*	*****4/28/77*****	*
2007		*		*
2008		*	DCB TABLES AND DC'S	*
2009		*		*
2010		*	*****	*****
2011		*		*
2012		****	DIAGNOSTIC DCB	*****
2013		*		*
2014	DGDCB	DC	X'2008'	DIAGNOSTIC DCB
2015		DC	A(*-*)	FLAG / PHYSICAL SECTOR#
2016		DC	A(*-*)	HEAD / CYLINDER#S
2017		DC	X'0000'	NOT USED
2018		DC	A(RSBA)	RSB ADDRESS
2019		DC	A(*-*)	CHAINING ADDRESS
2020		DC	X'0100'	BYTE COUNT
2021		DC	A(*-*)	DATA ADDRESS
2022		*		*
2023		****	RECALIBRATE DCB	*****
2024		*		*
2025	CLDCB	DC	X'0001'	RECALIBRATE DCB
2026		DC	7A(*-*)	

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
2027		*		*
2028		****	WRITE SECTOR ID	*****
2029		*		*
2030	WSDCB	DC	X'002D'	WRITE SECTOR ID CNTL WORD
2031		DC	A(*-*)	FLAG / PHYSICAL SECTOR#
2032		DC	A(*-*)	HEAD / CYLINDER#S
2033		DC	X'0000'	NOT USED
2034		DC	A(RSBA)	RSB ADDRESS
2035		DC	A(*-*)	CHAIN ADDRESS
2036		DC	X'0004'	BYTE COUNT
2037		DC	A(WPSID)	ADDR OF SECTOR ID DATA
2038		*		*
2039		****	READ SECTOR ID DCB	*****
2040		*		*
2041	RSDCB	DC	X'201C'	READ SECTOR ID CNTL WORD
2042		DC	A(*-*)	FLAG / PHYSICAL SECTOR#
2043		DC	X'0000'	HEAD / CYLINDER#S
2044		DC	X'0000'	NOT USED
2045		DC	A(RSBA)	RSB ADDRESS
2046		DC	A(*-*)	CHAIN ADDRESS
2047		DC	X'0004'	BYTE COUNT FOR READ SECTOR ID
2048		DC	A(SCTID)	SECTOR ID DATA ADDRESS
2049		*		*
2050		****	SEEK DCB	*****
2051		*		*
2052	SKDCB	DC	X'0000'	SEEK DCB CONTROL WORD
2053		DC	X'0000'	NOT USED
2054		DC	A(*-*)	HEAD / CYLINDER#S
2055		DC	X'0000'	NOT USED
2056		DC	A(RSBA)	RSB ADDRESS
2057		DC	A(*-*)	CHAIN ADDRESS
2058		DC	X'0000'	NOT USED
2059		DC	X'0000'	NOT USED
2060		*		*
2061		****	CYCLE STEAL STATUS DCB	*****
2062		*		*
2063	CSDCB	DC	X'2000'	CONTROL WORD
2064		DC	F'0'	NOT USED
2065		DC	F'0'	NOT USED
2066		DC	F'0'	NOT USED
2067		DC	F'0'	NOT USED
2068		DC	F'0'	NOT USED
2069		DC	X'001A'	13 WORDS OF STATUS
2070		DC	A(CSBUF)	ADDRESS OF CYCLE STEAL STATUS DATA
2071		*		*
2072		****	WRITE DCB	*****
2073		*		*
2074	WRDCB	DC	X'0028'	WRITE DATA DCB CNTL WORD
2075		DC	A(*-*)	FLAG / RECORD#
2076		DC	A(*-*)	HEAD / CYLINDER#S
2077		DC	A(*-*)	SCAN / REPEAT COUNT
2078		DC	A(RSBA)	RSB ADDRESS
2079		DC	A(*-*)	CHAIN ADDRESS
2080		DC	X'0100'	BYTE COUNT
2081		DC	A(*-*)	WRITE DATA ADDRESS
2082		*		*
2083		****	VERIFY DCB	*****
2084		*		*
2085	VRDCB	DC	X'0019'	CONTROL WORD
2086		DC	A(*-*)	FLAG / RECORD#
2087		DC	A(*-*)	HEAD / CYLINDER#S
2088		DC	A(*-*)	SCAN / REPEAT COUNT
2089		DC	A(RSBA)	RSB ADDRESS
2090		DC	A(*-*)	CHAIN ADDRESS
2091		DC	A(*-*)	BYTE COUNT
2092		DC	F'0'	NOT USED
2093		*		*
2094		****	READ DCB	*****
2095		*		*
2096	RDDCB	DC	X'2018'	READ DCB CONTROL WORD
2097		DC	A(*-*)	FLAG / RECORD#
2098		DC	A(*-*)	HEAD / CYLINDER#S
2099		DC	A(*-*)	SCAN / REPEAT COUNT
2100		DC	A(RSBA)	RSB ADDRESS
2101		DC	A(*-*)	CHAIN ADDRESS
2102		DC	X'0100'	BYTE COUNT
2103		DC	A(*-*)	READ DATA ADDRESS
2104		*		*
2105		****	WRITE SECTOR ID SKEWED	****
2106		*		*
2107	WKDCB	DC	X'002F'	CONTROL WORD
2108		DC	A(*-*)	FLAG / PHYSICAL SECTOR#
2109		DC	A(*-*)	HEAD / CYLINDER#S
2110		DC	F'0'	NOT USED
2111		DC	A(RSBA)	RSB ADDRESS
2112		DC	A(*-*)	CHAIN ADDRESS
2113		DC	X'0004'	BYTE COUNT
2114		DC	A(WRSID)	ADDR OF SECTOR ID DATA
2115		*		*
2116		****	READ SECTOR ID SKEWED	****
2117		*		*
2118	RKDCB	DC	X'201D'	CONTROL WORD
2119		DC	A(*-*)	FLAG / PHYSICAL SECTOR#
2120		DC	A(*-*)	HEAD / CYLINDER#S
2121		DC	F'0'	NOT USED
2122		DC	A(RSBA)	RSB ADDRESS
2123		DC	A(*-*)	CHAIN ADDRESS
2124		DC	X'0004'	BYTE COUNT
2125		DC	A(SCTID)	SECTOR ID DATA ADDRESS
2126		*		*
2127		****	READ MULTIPLE SECTOR IDS	****
2128		*		*
2129	RMDCB	DC	X'201C'	CONTROL WORD
2130		DC	A(*-*)	FLAG / PHYSICAL SECTOR#
2131		DC	A(*-*)	HEAD / CYLINDER#S
2132		DC	F'0'	NOT USED
2133		DC	A(RSBA)	RSB ADDRESS
2134		DC	A(*-*)	CHAIN ADDRESS
2135		DC	X'0084'	BYTE COUNT
2136		DC	A(ID00)	DATA AREA ADDRESS
2137		*		*
2138		*	CONSTANTS AND DEFINED STORAGE LOCATIONS	*
2139	ZERO	DC	X'0000'	CONSTANT ZERO
2140	ONE	DC	X'0001'	CONSTANT ONE

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
2141 RAY DC A(\*-\*) WRITE PARAMETER POINTER
2142 WDATA DC X'EBED' WRITE DATA
2143 \* \* \*
2144 LGSEC DC X'0000' LOGICAL SECTOR #
2145 PHYSC DC X'0000' CONVERTED PHYSICAL SEC #
2146 WRSID DC X'0000' FLAG,SECTOR (WRT SECTOR ID DATA)
2147 DC X'0000' HEAD,CYLINDER
2148 WSIDT DC X'FF34' WRITE SECTOR ID TEST DATA
2149 DC X'5678' \*
2150 SCTST DC X'0000' READ SECTOR ID TEST DATA BUFFER
2151 DC X'0000' \*
2152 RSBA DC 6A(\*-\*) RESIDUAL STATUS BLOCK
2153 CTR02 DC X'0000' COUNTER
2154 CTR03 DC X'0000' COUNTER
2155 ID00 DC X'0000' ID ADDRESS TO BE SET BY USER
2156 PDATA DC X'1010' WRITE DIAG WORD 1 DATA PATTERNS
2157 DC X'5555' \*
2158 DC X'AAAA' \*
2159 DC X'FFFF' \*
2160 \*
2161 \*\*\*\*\*4/06/77\*\*\*\*\*
2162 \*
2163 \* SUBROUTINE
2164 \*
2165 \* PURPOSE
2166 \*
2167 \* COMPARE READ SECTOR ID DATA TO WRITE SECTOR ID DATA
2168 \*
2169 \* CALLING SEQUENCE
2170 \*
2171 \* BAL CMPRW,R6 (NORMAL)
2172 \*
2173 \* RETURN
2174 \*
2175 \* BXS (R6,2) - NORMAL
2176 \*
2177 \*
2178 \*\*\*\*\*
2179 \*
2180 CMPRW MVWI 4,R7 COMPARE BYTE COUNT
2181 MVA SCTID,R3 ADDR OF RD SEC ID DATA
2182 MVA WRSID,R5 ADDR OF WR SEC ID DATA
2183 CFNEN (R3),(R5) COMPARE ID DATA
2184 BE (R6,2) RCH IF WRITE ID DATA OK
2185 B (R6)\* COMPARE ERROR
2186 \*\*\*\*\*
2187 \*
2188 \* EXECUTE INPUT & OUTPUT COMMANDS
2189 \* TO EXECUTE ALL I/O COMMANDS FROM A COMMON PLACE.
2190 \* EACH OF THESE ENTRIES SET R7 WITH THE ADDR OF ITS PARAMETER
2191 \* LIST AND ANY SPECIAL SWITCHES BEFORE FRANCHING TO THE
2192 \* SUPVR CALL.
2193 \*
2194 \* THIS SUBROUTINE WILL CHECK FOR THE FOLLOWING:
2195 \* 1. LOST INTERRUPTS BY TIMING OUT A COUNTING LOOP
2196 \* 2. ERROR INTERRUPTS RECEIVED FROM SUPVR
2197 \*
2198 \* THIS ROUTINE HAS THE FOLLOWING ENTRIES:
2199 \*
2200 \*
2201 \* 1 BAL \$RKEW,R6 READ SECTOR ID SKEWED
2202 \*
2203 \*
2204 \* 2 BAL \$WKEW,R6 WRITE SECTOR ID SKEWED
2205 \*
2206 \*
2207 \* 3 BAL \$WSEC,R6 WRITE SECTOR ID
2208 \*
2209 \*
2210 \* 4 BAL \$DIAG,R6 DIAGNOSTIC
2211 \*
2212 \*
2213 \* 5 BAL \$XIOCS,R6 CYCLE STEAL STATUS
2214 \*
2215 \*
2216 \* 6 BAL \$SEEK,R6 SEEK
2217 \*
2218 \*
2219 \* 7 BAL \$RECL,R6 RECALIBRATE
2220 \*
2221 \*
2222 \* 8 BAL \$RDID,R6 READ SECTOR ID
2223 \*
2224 \*
2225 \* 9 BAL \$RD,R6 RFD
2226 \*
2227 \*
2228 \* 10 BAL \$RDVY,R6 READ VERIFY
2229 \*
2230 \*
2231 \* 11 BAL \$WRT,R6 WRITE
2232 \*
2233 \*
2234 \* 12 BAL \$RDIM,R6 READ MULTI SECTOR IDS
2235 \*
2236 \*\*\*\*\*
2237 \*
2238 \$SEEK MVA SKDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
2239 XIO
2240 \*
2241 \*
2242 \$RECL MVA CLDCB,IODCB SET UP BLOCK FOR SVC CALL
2243 J XIO
2244 \*
2245 \*
2246 \$RDID MVA RSDCB,IODCB SET UP BLOCK FOR SVC CALL
2247 MVBI X'BB',R3 SET BUFFER TO B'S
2248 MVA SCTID,R5 SETUP READ SECTOR ID BUFFER ADRS
2249 MVWI 4,R7 SETUP BUFFER LENGTH
2250 PFN R3,(R5) INIT READ SECTOR ID BUFFER
2251 MVA SCTID,RSDCB+14 DATA ADDR
2252 J XIO
2253 \*
2254 \*
2255 \$RDIM MVA RMDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
2256 MVWI 132,R7 SET BUFFER LENGTH
2257 MVA ID00,R5 SET BUFFER ADDRESS
2258 MVBI X'BB',R3 SET CLEAR CHARACTERS
2259 PFN R3,(R5) CLEAR THE BUFFER
2260 J XIO
2261 \*
2262 \*
2263 \$RD MVBI X'FP',R3 SETRD BUFFER TO ALL F'S
2264 MVA RDDCB+12,R5 SET UP READ BUFFER ADRS
2265 MVW RDDCB+12,R7 SET UP BUFFER LENGTH
2266 PFN R3,(R5) CLEAR READ BUFFER
2267 \$RD\$ MVA RDDCB,IODCB SET UP BLOCK FOR SVC CALL
2268 J XIO
2269 \*
2270 \*
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17A27 --- FRU ISOLATION MAP P/N=8327677 EC=375222 PAGE 10A
LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
2256 \$RDVY MVA VRDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
4020 XIO
5056 \*
2259 \$WRT MVA WRDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
5052 XIO
2261 \*
2262 \$RKEW MVA RKDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
4020 MVBI X'BB',R3 SET BUFFER TO B'S
0BBB MVA SCTID,R5 SETUP READ SECTOR ID BUFFER ADRS
4524 2F28 MVWI 4,R7 SETUP BUFFER LENGTH
4724 0004 PFN R3,(R5) INIT READ SECTOR ID BUFFER
2BAC MVA SCTID,RKDCB+14 DATA

17A27 --- FRU ISOLATION MAP P/N=8327677 EC=375222 PAGE 11

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2935**
2936+XIODG MVWI X'000D',IOMOD SET MODIFIER POP DIAGNOSTIC OPS
2937+ J XIO1 GO TO CS OPS
2938**
2939+ TBTR (R4,CE) RESET CS STATUS INTER ERROR INDICAT.
2940+ TBTS (R4,CS) SET 'CYCLE STEAL STATUS' IN PROGRESS
2941+XIOWS MVA CSDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
2942+ MVWI X'000F',IOMOD SET CYCLE STEAL MODIFIER
2943+ TBTR (R4,CS) IS CS IN PROGRESS ERROR CONDITION
2944+ XIO2 * YES, BYPASS SAVING I/O ADRS
2945+XIOWS MVA DCBUF,R3 SAVE IAR FOR RETRY IF REQUESTED
2946+ MVW IODCB,R5 SET UP TO ADRS TO MOVE DCB TABLE
2947+ MVW IODCB,R5 * AND THE FROM ADRS, ALONG WITH
2948+ MVBI 26,R7 * THE NUMBER OF MOVES
2949+ MVFN (R5),(R3) MOVE 1 STATUS WORD AND ADJUST
2950+ MVBI 255,R3 CLEAR CYCLE STATUS BUFFER
2951+ MVA CSBUF,R5 * TO ALL ONES *
2952+ MVBI 26,R7 *
2953+ FPN R3,(R5) *
2954+ MVWI X'0708',SIOIN OVERLAY OLD CONDITION CODES
2955+ MVWZ $ISB,R3 ZERO OUT OLD ISB VALUE
2956**
2957+ TBTR (R4,ER) RESET ANY ERROR BEFORE I/O COMMAND
2958+XIOWS TBTR (R4,IN) CLEAR INTERRUPT RECEIVED CNTL BIT
2959+ MVA IOBLK,R7 SET UP CONTROL BLOCK FOR SUPVR
2960+ TBTR (R4,$IE) RESET LEVEL ERROR INDICATOR
2961+ TBTS (R4,XI) SET EXPECTED INTR CONTROL BIT
2962+ SVC START CALL SUPVR FOR I/O COMMAND
2963**
2964+ TBTR (R4,NI) IS AN INTR EXPECTED
2965+ BN (R6,2) * NO, RETURN TO USER
2966**
2967+ THE INTR SHOULD OCCUR WHILE SPINNING IN THE NEXT SECTION
2968**
2969+ MVWI 0,R5 SET UP WORK REG FOR 'LOST INTR'
2970+XIOWS TBTR (R4,IN) HAS INTERRUPT BEEN RECEIVED
2971+ JON XIOCK * YES, CHECK IF ALL WAS SATISFACTORY
2972+ SVC IDLE ALLOW ANOTHER PROGRAM A CHANCE TO RUN
2973** SUPVR WILL RETURN HERE
2974+ SVC IDLE ALLOW ANOTHER PROGRAM A CHANCE TO RUN
2975** SUPVR WILL RETURN HERE
2976+ AWI 1,R5 ADVANCE TIME OUT COUNT
2977+ JNZ XIO8 BCH IF TIME OUT NOT REACHED
2978+ TBTS (R4,ER) SET ON ERROR CONTROL BIT
2979+ B (R6)* ERR 'NO INTERRUPT'
2981+*****03FEB76**
2982**
2983** SUBROUTINE
2984**
2985** I/O EXECUTE ERROR HANDLING ROUTINE
2986**
2987** PURPOSE
2988**
2989** THIS ROUTINE WILL COLLECT INFORMATION TO HELP DETERMINE THE
2990** PROBLEM THAT WAS FOUND WHEN THE I/O COMMAND WAS ISSUED BY THE
2991** SUPERVISOR AND IT WAS NOT ACCEPTED.
2992**
2993** CALLING SEQUENCE
2994**
2995** SUPVR WILL ENTER WHEN AN ERROR OCCURS ON AN I/O COMMAND
2996**
2997** RETURN CONTROL
2998**
2999** B (R6)* RETURN TO USERS ERROR HANDLER
3000**
3001+*****
3002**
3003** CC 0= DEVICE NOT ATTACHED
3004** FOR 1= DEVICE BUSY
3005** I/O 2= DEVICE BUSY AFTER RESET
3006** 3= COMMAND REJECT
3007** 4= INTERVENTION REQUIRED
3008** 5= INTERFACE DATA CHECK
3009** 6= CONTROLLER BUSY
3010** 7= I/O COMMAND EXCEPTED
3011**
3012+XIOWS CPLSR R3 COPY STATUS ANY LEVEL INTO R3
3013+ SRL 13,R3 POSITION CC CODE TO BITS 13-15
3014+ MVB R3,$IOIN * PUT IN LOG OUT AREA
3015+ B (R6)* RETURN TO USER ERROR HANDLER
3017+*****14APR76**
3018**
3019** SUB-ROUTINE
3020**
3021** ERROR INTERRUPT RUNS ON INTERRUPT LEVEL '$INTL'
3022**
3023** PURPOSE
3024**
3025** THIS ROUTINE WILL BE ENTERED WHEN THE SUPVR DETECTS AN ERROR
3026** OR THE INTERRUPTING CONDITION CODE DOES NOT AGREE WITH THE
3027** EXPECTED CODE.
3028**
3029** CALLING SEQUENCE
3030**
3031** SUPVR WILL ENTER WHEN AN ERROR OCCURS ON AN I/O INTERRUPT
3032**
3033** RETURN CONTROL
3034**
3035** SVC EXIT RETURN TO USER VIA SUPVR
3036**
3037+*****
3038**
3039** CC 0= CONTROLLER END ISB 0= ADD STATUS
3040** FOR 1= PROGRAM CONTROL INTERRUPT BITS 1= COMD REJECT
3041** INTR 2= EXCEPTION INTERRUPT FOR 2= INCOR LENGTH
3042** 3= DEVICE END INTERRUPT INTR 3= DCB SPEC CK
3043** 4= ATTENTION INTERRUPT 4= STG DATA CK
3044** 5= ATTENTION / PROGRAM CNTL INTR 5= INV STG ADRS
3045** 6= ATTENTION / EXCEPTION INTR 6= PROTRCT CK
3046** 7= ATTENTION / DEVICE END INTR 7= I-FACE DATA
3047**
3048+INTER CPLSR R3 COPY STATUS ANY LEVEL INTO R3
3049+ SRL 13,R3 POSITION INDICATORS IN R3
3050+ MVA OPTN1,R4 SET UP BASE ADRS

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LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976

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3051+ TBTR (R4,CS) IS CS IN PROGRESS IL
3052+ JOFF INTES * NO IL
3053+ TBTS (R4,CE) TURN ON CYCLE STEAL INTER ERROR IL
3054+ MVW R7,DEV4 SAVE CS ERR ISB VALUE, BITS 0-7 IL
3055+ MVB R3,DEV4+1 * AND THE COND CODE IL
3056+ J INTR1 IL
3057+ INTES JBT (R4,XE) TEST EXPECTED ATEN / ERROR IND IL
3058+ JOFF INTET BCH IF NOT EXPECTED IL
3059+ CBI 4,R3 IS THIS AN 'ATTENTION' INTR IL
3060+ JE INTF1 * YES, BCH TO END INTR SEQUENCE IL
3061+INTET TBTS (R4,ER) SET ERROR ON I/O COMMAND CNTL BIT IL
3062+ J INTR1 IL
3063** THE ERROR INTERRUPT USES THE SAME IL
3064** ENDING SEQUENCE AS THE NORMAL INTR IL
3066+*****14APR76**
3067**
3068** SOUBROUTINE
3069**
3070** OKAY INTERRUPT RUNS ON INTERRUPT LEVEL '$INTL'
3071**
3072** PURPOSE
3073**
3074** TO CHECK THE INTERRUPT AND CONTINUE THE TEST
3075**
3076** CALLING SEQUENCE
3077**
3078** SUPERVISOR WILL ENTER HERE IF INTR CC IS AS REQUESTED
3079** THE ERROR INTERRUPT HANDLER WILL BRANCH TO THIS ROUTINE
3080** AFTER THE SPECIAL PART HAS BEEN COMPLETED AND THE
3081** COMMON SECTION IS HANDLED HERE.
3082**
3083** RETURN CONTROL
3084**
3085** SVC EXIT RETURN TO USER VIA SUPVR IL
3086**
3087+*****
3088+INTOK CPLSR R3 COPY STATUS ANY LEVEL INTO R3 IL
3089+ SRL 13,R3 POSITION INDICATORS IN R3 IL
3090+ MVA OPTN1,R4 SET UP BASE ADRS IL
3091+INTR1 TBTS (R4,NI) SET INTERRUPT RECEIVED IL
3092+ TBTR (R4,CS) IS 'CS IN PROGRESS' ON IL
3093+ JON INTR2 * YES, BCH AROUND UPDATE IL
3094+ MVB R3,$IOIN+1 SAVE INTERRUPTING CC CODE IL
3095+ MVW R7,$ISB SAVE INTR STATUS AND DEV ADRS IL
3096+INTR2 EQU * IL
3097** CPCL R5 CURRENT LEVEL COPIED BY DCP IL
3098+ SLL 4,R5 POSITION INTR LEVEL AND PUT IL
3099+ ABI 1,R5 * IN 'I' BIT IL
3100+ CW $INTL,R5 IS THIS THE CORRECT INTR LEVEL IL
3101+ JBT INTR3 * YES, GO EXIT THIS LEVEL IL
3102+ TBTS (R4,$IE) SET INTR LEVEL ERROR CONTROL BIT IL
3103+ TBTS (R4,ER) SET ERROR ON I/O COMMAND CNTL BIT IL
3104+INTR3 TBTR (R4,XI) WAS INTERRUPT EXPECTED IL
3105+ JON INTRX * YES, EXIT OFF THIS INTR LEVEL IL
3106+ TBTS (R4,MI) * NO, SET MYSTERY INTR CONTROL BIT IL
3107+ CBI 4,R5 ATTENTION INTERRUPT? IL
3108+ JE INTRX YES IL
3109+ TBTS (R4,NG) ERROR, UNEXPECTED INTERRUPT IL
3110+INTRX SVC EXIT EXIT THIS LEVEL VIA SUPVR TO PGM IL
3112+*****03FEB76**
3113**
3114** THIS IS THE CONTINUATION OF EXECUTE I/O AFTER THE INTERRUPT
3115** HAS BEEN SERVICED. THE EXERCISER FINDS AN INTERRUPT HAS BEEN
3116** RECEIVED AND BRANCHES HERE TO CHECK FOR ANY ERROR CONDITIONS.
3117**
3118**
3119+XIOWS TBTR (R4,XE) WAS AN ERROR EXPECTED IL
3120+ BN (R6,2) * YES, EXIT THIS ROUTINE IL
3121+ TBTR (R4,CS) WAS AUTO CS IN PROGRESS IL
3122+ JOFF XIOCV * NO, CONTINUE CHECKING IL
3123+ TBTR (R4,CE) IS CS IN AN ERR CONDITION IL
3124+ JOFF XIOCO * NO, BCH IL
3125+ B (R6)* CS ERROR IL
3126+XIOWS TBTS (R4,CSA) TURN ON CS STATS AVAIL FLAG IL
3127+ BXS (R6,2) GO TO USER IL
3128+XIOWS TBT (R4,ER) WAS ERROR INTR CONTROL BIT ON IL
3129+ JOFF XIOCX * NO, EXIT THIS ROUTINE IL
3130**
3131+ MVW $IOIN+1,R5 GET LAST INTR CC CODE IL
3132+ CBI 2,R5 IS THIS CC=2 IL
3133+ JE XIOCO YES IL
3134+ CBI 6,R5 IS THIS CC=6 IL
3135+ BNE (R6)* * NO, BCH TO ERROR HANDLER IL
3136+XIOWS MVB $ISB,R5 GET LAST ISB DATA BYTE AND IF CS IL
3137+ BN XIOCS-4 * AVAILABLE, GO AND GET IT IL
3138+ B (R6)* ERROR IL
3139+XIOWS MVWZ OPTN3,R3 CLEAR OUT OPTION 3 CNTL BITS IL
3140+ BXS (R6,2) RETURN TO USER VIA REG 6 IL
3141**
3142** I/O PARAMETER LIST
3143**
3144+IOBLK DC A(DEVADD) ADRS OF DEVICE ADRS
3145+ DC A(XIOER) ERROR ROUTINE ADRS
3146+IODCB DC A(*-*) DCB ADRS OR LEVEL & INTR
3147+IIONOD DC A(*-*) MODIFIER
3148+ DC A(*-*) ADRS OF LAST SVC CALL
3149+IORSR DC A(*-*) SECOND WORD OF LAST IDCB
3150**
3151** INTERRUPT CONTROL BLOCK FOR I/O COMMANDS
3152**
3153+INTBL DC A(DEVADD) ADRS OF DEVICE ADRS
3154+ DC A(INTOK) INTERRUPT OK RETURN ADRS
3155+ DC A(INTR) INTERRUPT ERROR ADRS
3156+INTCC DC X'0003' INTERRUPT CODE EXPECTED
3158+*****11MAY76**
3159**
3160** SUBROUTINE
3161**
3162** CONNECT INTERRUPT CONTROL BLOCK & PREPARE DEVICE
3163**
3164** PURPOSE
3165**
3166** TO CONNECT THE INTERRUPT CONTROL BLOCK TO THIS DEVICE AND
3167** PREPARE ON THE DESIRED INTERRUPT LEVEL AND TO ALLOW THE DEVICE

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LOCTR OBJECT TEXT STMT SOURCE STATEMENT
3168\*\* TO INTERRUPT.
3169\*\*
3170\*\* CALLING SEQUENCE
3171\*\*
3172\*\* THIS SUBROUTINE HAS THE FOLLOWING ENTRIES:
3173\*\*
3174\*\* --> BAL \$CONC,R6 CLEAR DEV DEP STG AND CONNECT I/O BLK
3175\*\* --> BAL \$CONP,R6 PREPARE DEVICE ONLY, ALREADY CONNECT
3176\*\*
3177\*\* RETURN CONTROL
3178\*\*
3179\*\* BXS (R6,2) RETURN TO USER VIA REG 6 IF OKAY
3180\*\* OR B (R6)\* IF THE DEVICE COULD NOT BE CONNECTED
3181\*\*
3182\*\* \*\*\*\*\*
3183\*\* \$CONC MVI 6,R7 NUMBER OF BYTE TO CLEAR
3184\*\* MVI 0,R3 \* AND THE DATA TO USE
3185\*\* MVA DEV1,R5 \* ALONG WITH THE ADRS TO USE
3186\*\* FPN R3,(R5) \*
3187\*\* MVWZ OPTN3,R3 CLEAR OLD CONTROLS FOR NEW ROUTINE
3188\*\* MVA INTEL,R7 SET R7 TO CONTROL BLOCK AND
3189\*\* SVC CICIP \* CONNECT IT TO THIS DEVICE
3190\*\* BN (R6)\* ERROR RETURN TO USER
3191\*\*
3192\*\* \$CONP MVW \$INFL,IODCB PUT IN LEVEL E INTR PARAMETER
3193\*\* MVA IOBLK,R7 SET R7 TO CONTROL BLOCK TO PREPARE
3194\*\* MVWI X'0708', \$IOIN INITIALIZE CONDITION CODE STORAGE
3195\*\* MVWZ \$ISB,R3 \* AND CLEAR OLD ISB VALUE
3196\*\* MVW R6,LSTIO SET UP ADDRESS THAT STARTED LAST I/O
3197\*\* SVC PREP \* AND CALL ON SUPVR
3198\*\* BXS (R6,2) RETURN TO USER
3199\*\*
3200\*\* \*\*\*\*\*06APR76\*\*
3201\*\*
3202\*\* SUBROUTINE
3203\*\*
3204\*\* DISCONNECT THE INTERRUPT CONTROL BLOCK AND LOG ERRORS
3205\*\*
3206\*\* PURPOSE
3207\*\*
3208\*\* DISCONNECT THE INTERRUPT CONTROL BLOCK TO THIS DEVICE AND
3209\*\* SET THE 'NO GOOD' CONTROL BIT, THEN LOG THE DATA THAT HAS
3210\*\* BEEN FOUND TO HELP THE OPERATOR DEFINE THE ERROR CONDITION.
3211\*\*
3212\*\* CALLING SEQUENCE
3213\*\*
3214\*\* THIS SUBROUTINE HAS THE FOLLOWING ENTRIES:
3215\*\*
3216\*\* --> B \$ERR\$ SET 'NG' BIT AND CONVERT DATA TO LOG
3217\*\* --> B \$CONX RETURN TO MDI SUPERVISOR TO TEST STS
3218\*\*
3219\*\* RETURN CONTROL
3220\*\*
3221\*\* B TURTN\* RETURN TO MDI
3222\*\* OR B (R6)\* IF THE DEVICE COULD NOT BE CONNECTED
3223\*\*
3224\*\* \*\*\*\*\*
3225\*\* \$ERR\$ MVWI X'8000',TUSTATUS SET ON 'NO GOOD' STATUS BIT
3226\*\* MVA HEBLK,R7 GET ADRS OF CONTROL BLOCK
3227\*\* SVC HTOE CONVERT HEX TO EBC VIS DCP
3228\*\* MVWI X'4040',TUWORK+116
3229\*\* MVWI X'4040',TUWORK+118
3230\*\* MVWI X'4040',TUWORK+120
3231\*\* \$PRNT MVI 4,R5
3232\*\* MVA TUWORK,R3 SET UP BUFFER STORAGE
3233\*\* MVW R3,BUFPT
3234\*\* MVA LINE1,R1
3235\*\* MVI 4,R7
3236\*\* MVI 8,R6
3237\*\* MVFN (R3),(R1)
3238\*\* MVI 4,R7
3239\*\* MVI X'40',R2
3240\*\* MVB R2,(R1)+
3241\*\* JCT MVBUF,R6
3242\*\* MVI 8,R6
3243\*\* ANI 4,R1
3244\*\* JCT MVBUF,R5
3245\*\* MVWI PIDMSG10,PID+2
3246\*\* MVA FAKETU,@DCADD1
3247\*\* MVA DC2PT,@DCADD2
3248\*\* OWI BIT0080,SUPSTAT
3249\*\* MVA \$TUID,R3 SET UP BUFFER STORAGE
3250\*\* BAL TUMSGWTR\*,R7 GO TO MESSAGE WRITER
3251\*\*
3252\*\* \$CONX EQU \*
3253\*\* MVB DEVADD,R7 GET DEVICE ADDRESS FROM MDI
3254\*\* SVC RICB RELEASE INTERRUPT CONTROL BLOCK
3255\*\* TURTN\* RETURN TO MDI SUPERVISOR
3256\*\*
3257\*\* \$BEGIN DC A(0009) NUMBER OF LINES TO PRINT
3258\*\* DC A(0008) LINE LENGTH = 8 CHAR
3259\*\* DC C'\*\* ABORT'
3260\*\* DC A(0040) LINE LENGTH = 40 CHAR
3261\*\* DC C'TUID IOIN ISB INST SECT ID DATA CSCC '
3262\*\* DC A(0040) LINE LENGTH = 40 CHAR
3263\*\* DC C'
3264\*\* DC A(0040) LINE LENGTH = 40 CHAR
3265\*\* DC C'CNTRL DCB1 DCB2 DCB3 DCB4 CHAD BYCT ADRS '
3266\*\* DC A(0040) LINE LENGTH = 40 CHAR
3267\*\* DC C'
3268\*\* DC A(0040) LINE LENGTH = 40 CHAR
3269\*\* DC C'CS-0 CS-1 CS-2 CS-3 CS-4 CS-5 CS-6 CS-7 '
3270\*\* DC A(0040) LINE LENGTH = 40 CHAR
3271\*\* DC C'
3272\*\* DC A(0040) LINE LENGTH = 40 CHAR
3273\*\* DC C'CS-8 CS-9 CS-A CS-B CS-C
3274\*\* DC A(0040) LINE LENGTH = 40 CHAR
3275\*\* DC C'
3276\*\*
3277\*\* \$BUFPT DC A(\*-\*)
3278\*\* DC A(BEGIN)
3279\*\* DC X'0101'
3280\*\* FAKETU DC X'0101'
3281\*\* PIDMSG10 EQU X'F1F0'
3282\*\* BIT0080 EQU X'0080'

LOCTR OBJECT TEXT STMT SOURCE STATEMENT
3283\*\*
3284\*\* DATA CONTROL BLOCK FOR CONVERTING HEX TO EBCDIC
3285\*\*
3286\*\*HEBLK DC A(58) NUMBER OF BYTES TO CONVERT
3287\*\* DC A(\$TUID) FROM ADRS
3288\*\* DC A(TUWORK) AND THE TO ADRS
3289\*\* COPY T7A10 23JAN78
3290\*\* T7A10 TUIT
3291\*\* \*\*\*\*\*06FEB76\*\*
3292\*\*
3293\*\* TEST UNIT
3294\*\*
3295\*\* ERROR HALT CODE/DIAG SENSE BYTE CHECK
3296\*\*
3297\*\* PURPOSE
3298\*\*
3299\*\* TO MOVE THE ERROR HALT CODE, STATUS BYTE, AND DIAG BYTES 1,2,3
3300\*\* TO THE TU RESULTS BUFFER (TURESUL).
3301\*\*
3302\*\* MDI=\$TUX,T7A10,01,0708,EQ
3303\*\*
3304\*\* TURESUL BIT(S) 0-7 ..... ERROR HALT CODE
3305\*\* 8-15 ..... STATUS (SENSE) BYTE
3306\*\* 16-23 ..... SINGLE SHOT BYTE 1 (5-HURSLEY)
3307\*\* 24-31 ..... SINGLE SHOT BYTE 2 (6-HURSLEY)
3308\*\* 32-39 ..... SINGLE SHOT BYTE 3 (7-HURSLEY)
3309\*\* 48-55 ..... NOT USED
3310\*\* 56-63 ..... MULTISAMPLE BYTE 1 (5-HURSLEY)
3311\*\* 64-71 ..... MULTISAMPLE BYTE 2 (6-HURSLEY)
3312\*\* 72-79 ..... MULTISAMPLE BYTE 3 (7-HURSLEY)
3313\*\* 80-87 ..... WRAP BYTE
3314\*\*
3315\*\* CALLING SEQUENCE
3316\*\*
3317\*\* MVW TUWORK,TURESUL MOVE ERROR HALT CODE & STATUS BYTES
3318\*\* MVD TUWORK+6,TURESUL+2 SINGLE SHOT BYTES 1, 2, AND 3
3319\*\* MVD TUWORK+10,TURESUL+6 MULTISAMPLE BYTES 1, 2, AND 3
3320\*\* AND WRAP BYTE
3321\*\* RETURN CONTROL
3322\*\*
3323\*\* B TURTN\* RETURN TO MDI SUPERVISOR
3324\*\*
3325\*\* \*\*\*\*\*
3326\*\*T7A10 MVW R7,TURTN SAVE RETURN ADDRESS
3327\*\* MVWI X'7A10', \$TUID SAVE TU ID FOR DISPLAY
3328\*\* MVA OPTN1,R4 SET UP POINTER ADRS IN R4
3329\*\* BAL \$CONC,R6 CLEAR DEV DEP STG AND CONNECT I/O BL
3330\*\* DC A(\$ERR\$) ERROR ADRS FOR INVALID PREP
3331\*\*
3332\*\* MVD TUWORK+2,TURESUL+10 MOVE ERROR WORDS 4,5
3333\*\* MVB TUWORK+13,TURESUL+5 MOVE WRAP CHECK RESULTS
3334\*\* TXIT
3335\*\* B \$CONX RETURN TO MDI CONTROLLER
3336\*\* \*\*\*\*\*
3338\*\* END

0034A8 003A
0034AA 2F20
0034AC 181A

0034AE 6F0D 2F62
0034B2 4020 2F20 7A10
0034B8 4424 2F1A
0034BC 6E03 32A4
0034C0 32D8

0034C2 9028 181C 18D2
0034C8 8028 1827 18CD
0034CE 6802 333A
000000

## CROSS-REFERENCE LISTING

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
3183	\$CONC	ADDRESS. HEX LOCATION(000032A4) IN CSECT(I7A27 ) LENGTH(2)
3252	\$CONX	ADDRESS. HEX LOCATION(0000333A) IN CSECT(I7A27 ) LENGTH(1)
3225	\$ERR\$	ADDRESS. HEX LOCATION(000032D8) IN CSECT(I7A27 ) LENGTH(6)
1889	\$INTL	ADDRESS. HEX LOCATION(00002F60) IN CSECT(I7A27 ) LENGTH(2)
1854	\$IOIN	ADDRESS. HEX LOCATION(00002F22) IN CSECT(I7A27 ) LENGTH(2)
1855	\$ISB	ADDRESS. HEX LOCATION(00002F24) IN CSECT(I7A27 ) LENGTH(2)
1839	\$LE	ABSOLUTE. HEX VALUE(00000026)
1853	\$TUID	ADDRESS. HEX LOCATION(00002F20) IN CSECT(I7A27 ) LENGTH(2)
2302	\$WRT1	ADDRESS. HEX LOCATION(0000315C) IN CSECT(I7A27 ) LENGTH(2)
102	@DCADD1	ADDRESS. HEX LOCATION(000019B8) IN CSECT(I7A27 ) LENGTH(1)
103	@DCADD2	ADDRESS. HEX LOCATION(000019BA) IN CSECT(I7A27 ) LENGTH(1)
39	@FIXT	ABSOLUTE. HEX VALUE(00000101)
45	@TUXX	ABSOLUTE. HEX VALUE(00000500)
3257	BEGIN	ADDRESS. HEX LOCATION(00003344) IN CSECT(I7A27 ) LENGTH(2)
3282	BIT0080	ABSOLUTE. HEX VALUE(00000080)
3277	BUFPT	ADDRESS. HEX LOCATION(000034A0) IN CSECT(I7A27 ) LENGTH(2)
1843	CE	ABSOLUTE. HEX VALUE(0000002A)
1928	CICB	ABSOLUTE. HEX VALUE(00000014)
2025	CLDCB	ADDRESS. HEX LOCATION(00002F82) IN CSECT(I7A27 ) LENGTH(2)
1841	CS	ABSOLUTE. HEX VALUE(00000028)
1842	CSA	ABSOLUTE. HEX VALUE(00000029)
1872	CSBUF	ADDRESS. HEX LOCATION(00002F40) IN CSECT(I7A27 ) LENGTH(1)
2063	CSDCB	ADDRESS. HEX LOCATION(00002FC2) IN CSECT(I7A27 ) LENGTH(2)
1862	DCBUF	ADDRESS. HEX LOCATION(00002F30) IN CSECT(I7A27 ) LENGTH(1)
3278	DC2PT	ADDRESS. HEX LOCATION(000034A2) IN CSECT(I7A27 ) LENGTH(2)
105	DEVADD	ADDRESS. HEX LOCATION(000019D0) IN CSECT(I7A27 ) LENGTH(1)
1857	DEV1	ADDRESS. HEX LOCATION(00002F28) IN CSECT(I7A27 ) LENGTH(2)
1860	DEV4	ADDRESS. HEX LOCATION(00002F2E) IN CSECT(I7A27 ) LENGTH(2)
2014	DGDCB	ADDRESS. HEX LOCATION(00002F72) IN CSECT(I7A27 ) LENGTH(2)
67	DUMMY	ABSOLUTE. HEX VALUE(00000000)
1737	ENTPT	ADDRESS. HEX LOCATION(00002E92) IN CSECT(I7A27 ) LENGTH(1)
1834	ER	ABSOLUTE. HEX VALUE(00000021)
1914	EXIT	ABSOLUTE. HEX VALUE(00000006)
3280	FAKETU	ADDRESS. HEX LOCATION(000034A6) IN CSECT(I7A27 ) LENGTH(2)
1788	F00033	ADDRESS. HEX LOCATION(00002F00) IN CSECT(I7A27 ) LENGTH(1)
1768	F00044	ADDRESS. HEX LOCATION(00002EBE) IN CSECT(I7A27 ) LENGTH(1)
1756	F00045	ADDRESS. HEX LOCATION(00002E98) IN CSECT(I7A27 ) LENGTH(1)
1784	F00047	ADDRESS. HEX LOCATION(00002EF2) IN CSECT(I7A27 ) LENGTH(1)
1776	F00052	ADDRESS. HEX LOCATION(00002ED8) IN CSECT(I7A27 ) LENGTH(1)
1764	F00074	ADDRESS. HEX LOCATION(00002EB2) IN CSECT(I7A27 ) LENGTH(1)
1760	F00078	ADDRESS. HEX LOCATION(00002EA6) IN CSECT(I7A27 ) LENGTH(1)
1780	F00081	ADDRESS. HEX LOCATION(00002EE6) IN CSECT(I7A27 ) LENGTH(1)
1772	F00082	ADDRESS. HEX LOCATION(00002ECC) IN CSECT(I7A27 ) LENGTH(1)
1792	F00083	ADDRESS. HEX LOCATION(00002F0E) IN CSECT(I7A27 ) LENGTH(1)
3286	HEBLK	ADDRESS. HEX LOCATION(000034A8) IN CSECT(I7A27 ) LENGTH(2)
1934	HTOE	ABSOLUTE. HEX VALUE(0000001A)
1910	IDLE	ABSOLUTE. HEX VALUE(00000002)

## CROSS-REFERENCE LISTING

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
2155	ID00	ADDRESS. HEX LOCATION(0000305C) IN CSECT(I7A27 ) LENGTH(2)
1836	IN	ABSOLUTE. HEX VALUE(00000023)
3153	INTBL	ADDRESS. HEX LOCATION(0000329C) IN CSECT(I7A27 ) LENGTH(2)
3048	INTER	ADDRESS. HEX LOCATION(00003200) IN CSECT(I7A27 ) LENGTH(2)
3057	INTES	ADDRESS. HEX LOCATION(00003218) IN CSECT(I7A27 ) LENGTH(2)
3061	INTET	ADDRESS. HEX LOCATION(00003220) IN CSECT(I7A27 ) LENGTH(2)
3088	INTOK	ADDRESS. HEX LOCATION(00003224) IN CSECT(I7A27 ) LENGTH(2)
3110	INTRX	ADDRESS. HEX LOCATION(00003254) IN CSECT(I7A27 ) LENGTH(2)
3091	INTR1	ADDRESS. HEX LOCATION(0000322C) IN CSECT(I7A27 ) LENGTH(2)
3096	INTR2	ADDRESS. HEX LOCATION(0000323A) IN CSECT(I7A27 ) LENGTH(1)
3104	INTR3	ADDRESS. HEX LOCATION(00003248) IN CSECT(I7A27 ) LENGTH(2)
3144	IOBLK	ADDRESS. HEX LOCATION(00003290) IN CSECT(I7A27 ) LENGTH(2)
3146	IODCB	ADDRESS. HEX LOCATION(00003294) IN CSECT(I7A27 ) LENGTH(2)
3147	IOMOD	ADDRESS. HEX LOCATION(00003296) IN CSECT(I7A27 ) LENGTH(2)
37	I7A27	CSECT. START(00002500) LENGTH(4050) ESDID(1)
3263	LINE1	ADDRESS. HEX LOCATION(0000337C) IN CSECT(I7A27 ) LENGTH(40)
1856	LSTIO	ADDRESS. HEX LOCATION(00002F26) IN CSECT(I7A27 ) LENGTH(2)
1833	MI	ABSOLUTE. HEX VALUE(00000020)
3237	MVBUF	ADDRESS. HEX LOCATION(00003308) IN CSECT(I7A27 ) LENGTH(2)
1845	NG	ABSOLUTE. HEX VALUE(0000002C)
1840	NI	ABSOLUTE. HEX VALUE(00000027)
729	N00001	ADDRESS. HEX LOCATION(00002720) IN CSECT(I7A27 ) LENGTH(2)
741	N00002	ADDRESS. HEX LOCATION(00002738) IN CSECT(I7A27 ) LENGTH(2)
753	N00003	ADDRESS. HEX LOCATION(00002756) IN CSECT(I7A27 ) LENGTH(2)
765	N00004	ADDRESS. HEX LOCATION(0000276E) IN CSECT(I7A27 ) LENGTH(2)
777	N00005	ADDRESS. HEX LOCATION(00002786) IN CSECT(I7A27 ) LENGTH(2)
789	N00006	ADDRESS. HEX LOCATION(0000279E) IN CSECT(I7A27 ) LENGTH(2)
801	N00007	ADDRESS. HEX LOCATION(000027B6) IN CSECT(I7A27 ) LENGTH(2)
813	N00008	ADDRESS. HEX LOCATION(000027CE) IN CSECT(I7A27 ) LENGTH(2)
816	N00009	ADDRESS. HEX LOCATION(000027D2) IN CSECT(I7A27 ) LENGTH(2)
819	N00010	ADDRESS. HEX LOCATION(000027D6) IN CSECT(I7A27 ) LENGTH(2)
822	N00011	ADDRESS. HEX LOCATION(000027DA) IN CSECT(I7A27 ) LENGTH(2)
834	N00012	ADDRESS. HEX LOCATION(000027F2) IN CSECT(I7A27 ) LENGTH(2)
837	N00013	ADDRESS. HEX LOCATION(000027F6) IN CSECT(I7A27 ) LENGTH(2)
840	N00014	ADDRESS. HEX LOCATION(000027FA) IN CSECT(I7A27 ) LENGTH(2)
852	N00015	ADDRESS. HEX LOCATION(00002812) IN CSECT(I7A27 ) LENGTH(2)
855	N00016	ADDRESS. HEX LOCATION(00002816) IN CSECT(I7A27 ) LENGTH(2)
858	N00017	ADDRESS. HEX LOCATION(0000281A) IN CSECT(I7A27 ) LENGTH(2)
870	N00018	ADDRESS. HEX LOCATION(00002832) IN CSECT(I7A27 ) LENGTH(2)
873	N00019	ADDRESS. HEX LOCATION(00002836) IN CSECT(I7A27 ) LENGTH(2)
885	N00020	ADDRESS. HEX LOCATION(0000284E) IN CSECT(I7A27 ) LENGTH(2)
888	N00021	ADDRESS. HEX LOCATION(00002852) IN CSECT(I7A27 ) LENGTH(2)
891	N00022	ADDRESS. HEX LOCATION(00002856) IN CSECT(I7A27 ) LENGTH(2)
903	N00023	ADDRESS. HEX LOCATION(00002870) IN CSECT(I7A27 ) LENGTH(2)
915	N00024	ADDRESS. HEX LOCATION(0000288A) IN CSECT(I7A27 ) LENGTH(2)
927	N00025	ADDRESS. HEX LOCATION(000028A2) IN CSECT(I7A27 ) LENGTH(2)
939	N00026	ADDRESS. HEX LOCATION(000028BA) IN CSECT(I7A27 ) LENGTH(2)
951	N00027	ADDRESS. HEX LOCATION(000028D2) IN CSECT(I7A27 ) LENGTH(2)
963	N00028	ADDRESS. HEX LOCATION(000028EA) IN CSECT(I7A27 ) LENGTH(2)
966	N00029	ADDRESS. HEX LOCATION(000028EE) IN CSECT(I7A27 ) LENGTH(2)
978	N00030	ADDRESS. HEX LOCATION(00002906) IN CSECT(I7A27 ) LENGTH(2)
981	N00031	ADDRESS. HEX LOCATION(0000290A) IN CSECT(I7A27 ) LENGTH(2)
993	N00032	ADDRESS. HEX LOCATION(00002922) IN CSECT(I7A27 ) LENGTH(2)
996	N00033	ADDRESS. HEX LOCATION(00002926) IN CSECT(I7A27 ) LENGTH(2)
999	N00034	ADDRESS. HEX LOCATION(0000292A) IN CSECT(I7A27 ) LENGTH(2)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
1011	N00035	414 940 ADDRESS. HEX LOCATION(00002942) IN CSECT(I7A27 ) LENGTH(2)
1014	N00036	417 ADDRESS. HEX LOCATION(00002946) IN CSECT(I7A27 ) LENGTH(2)
1017	N00037	420 1000 ADDRESS. HEX LOCATION(0000294A) IN CSECT(I7A27 ) LENGTH(2)
1029	N00038	423 928 ADDRESS. HEX LOCATION(00002962) IN CSECT(I7A27 ) LENGTH(2)
1032	N00039	426 ADDRESS. HEX LOCATION(00002966) IN CSECT(I7A27 ) LENGTH(2)
1035	N00040	429 1018 ADDRESS. HEX LOCATION(0000296A) IN CSECT(I7A27 ) LENGTH(2)
1047	N00041	432 916 ADDRESS. HEX LOCATION(00002982) IN CSECT(I7A27 ) LENGTH(2)
1050	N00042	435 ADDRESS. HEX LOCATION(00002986) IN CSECT(I7A27 ) LENGTH(2)
1053	N00043	438 1036 ADDRESS. HEX LOCATION(0000298A) IN CSECT(I7A27 ) LENGTH(2)
1065	N00044	441 904 ADDRESS. HEX LOCATION(000029A2) IN CSECT(I7A27 ) LENGTH(2)
1077	N00045	444 ADDRESS. HEX LOCATION(000029BA) IN CSECT(I7A27 ) LENGTH(2)
1089	N00046	447 ADDRESS. HEX LOCATION(000029D2) IN CSECT(I7A27 ) LENGTH(2)
1092	N00047	450 ADDRESS. HEX LOCATION(000029D6) IN CSECT(I7A27 ) LENGTH(2)
1095	N00048	453 1078 ADDRESS. HEX LOCATION(000029DA) IN CSECT(I7A27 ) LENGTH(2)
1098	N00049	456 1066 ADDRESS. HEX LOCATION(000029DE) IN CSECT(I7A27 ) LENGTH(2)
1110	N00050	459 1054 ADDRESS. HEX LOCATION(000029F6) IN CSECT(I7A27 ) LENGTH(2)
1113	N00051	462 ADDRESS. HEX LOCATION(000029FA) IN CSECT(I7A27 ) LENGTH(2)
1125	N00052	465 1099 ADDRESS. HEX LOCATION(00002A12) IN CSECT(I7A27 ) LENGTH(2)
1128	N00053	468 ADDRESS. HEX LOCATION(00002A16) IN CSECT(I7A27 ) LENGTH(2)
1131	N00054	471 1114 ADDRESS. HEX LOCATION(00002A1A) IN CSECT(I7A27 ) LENGTH(2)
1143	N00055	474 892 ADDRESS. HEX LOCATION(00002A32) IN CSECT(I7A27 ) LENGTH(2)
1155	N00056	477 ADDRESS. HEX LOCATION(00002A4A) IN CSECT(I7A27 ) LENGTH(2)
1158	N00057	480 ADDRESS. HEX LOCATION(00002A4E) IN CSECT(I7A27 ) LENGTH(2)
1161	N00058	483 1144 ADDRESS. HEX LOCATION(00002A52) IN CSECT(I7A27 ) LENGTH(2)
1173	N00059	486 1132 ADDRESS. HEX LOCATION(00002A6A) IN CSECT(I7A27 ) LENGTH(2)
1185	N00060	489 ADDRESS. HEX LOCATION(00002A82) IN CSECT(I7A27 ) LENGTH(2)
1197	N00061	492 ADDRESS. HEX LOCATION(00002A9A) IN CSECT(I7A27 ) LENGTH(2)
1200	N00062	495 ADDRESS. HEX LOCATION(00002A9E) IN CSECT(I7A27 ) LENGTH(2)
1212	N00063	498 1186 ADDRESS. HEX LOCATION(00002AB6) IN CSECT(I7A27 ) LENGTH(2)
1215	N00064	501 ADDRESS. HEX LOCATION(00002ABA) IN CSECT(I7A27 ) LENGTH(2)
1218	N00065	504 1201 ADDRESS. HEX LOCATION(00002ABE) IN CSECT(I7A27 ) LENGTH(2)
1230	N00066	507 1174 ADDRESS. HEX LOCATION(00002AD6) IN CSECT(I7A27 ) LENGTH(2)
1242	N00067	510 ADDRESS. HEX LOCATION(00002AEE) IN CSECT(I7A27 ) LENGTH(2)
1245	N00068	513 ADDRESS. HEX LOCATION(00002AF2) IN CSECT(I7A27 ) LENGTH(2)
1257	N00069	516 1231 ADDRESS. HEX LOCATION(00002B0A) IN CSECT(I7A27 ) LENGTH(2)
1269	N00070	519 ADDRESS. HEX LOCATION(00002B22) IN CSECT(I7A27 ) LENGTH(2)
1281	N00071	522 ADDRESS. HEX LOCATION(00002B3A) IN CSECT(I7A27 ) LENGTH(2)
1293	N00072	525 ADDRESS. HEX LOCATION(00002B52) IN CSECT(I7A27 ) LENGTH(2)
1296	N00073	528 ADDRESS. HEX LOCATION(00002B56) IN CSECT(I7A27 ) LENGTH(2)
1299	N00074	531 1282 ADDRESS. HEX LOCATION(00002B5A) IN CSECT(I7A27 ) LENGTH(2)
1302	N00075	534 1270 ADDRESS. HEX LOCATION(00002B5E) IN CSECT(I7A27 ) LENGTH(2)
1305	N00076	537 1258 ADDRESS. HEX LOCATION(00002B62) IN CSECT(I7A27 ) LENGTH(2)
1308	N00077	540 1246 ADDRESS. HEX LOCATION(00002B66) IN CSECT(I7A27 ) LENGTH(2)
1320	N00078	543 1219 ADDRESS. HEX LOCATION(00002B7E) IN CSECT(I7A27 ) LENGTH(2)
1332	N00079	546 ADDRESS. HEX LOCATION(00002B96) IN CSECT(I7A27 ) LENGTH(2)
1344	N00080	549 ADDRESS. HEX LOCATION(00002BAE) IN CSECT(I7A27 ) LENGTH(2)
1347	N00081	552 ADDRESS. HEX LOCATION(00002BB2) IN CSECT(I7A27 ) LENGTH(2)
1359	N00082	555 1333 ADDRESS. HEX LOCATION(00002BCA) IN CSECT(I7A27 ) LENGTH(2)
1362	N00083	558 ADDRESS. HEX LOCATION(00002BCE) IN CSECT(I7A27 ) LENGTH(2)
1365	N00084	561 1348 ADDRESS. HEX LOCATION(00002BD2) IN CSECT(I7A27 ) LENGTH(2)
1368	N00085	564 1321 ADDRESS. HEX LOCATION(00002BD6) IN CSECT(I7A27 ) LENGTH(2)
1380	N00086	567 1309 ADDRESS. HEX LOCATION(00002BEE) IN CSECT(I7A27 ) LENGTH(2)
1392	N00087	570 ADDRESS. HEX LOCATION(00002C06) IN CSECT(I7A27 ) LENGTH(2)
1395	N00088	573 ADDRESS. HEX LOCATION(00002C0A) IN CSECT(I7A27 ) LENGTH(2)
1398	N00089	576 1381 ADDRESS. HEX LOCATION(00002C0E) IN CSECT(I7A27 ) LENGTH(2)
		579 1369

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1401	N00090	ADDRESS. HEX LOCATION(00002C12) IN CSECT(I7A27 ) LENGTH(2)
1413	N00091	582 1162 ADDRESS. HEX LOCATION(00002C2A) IN CSECT(I7A27 ) LENGTH(2)
1425	N00092	585 ADDRESS. HEX LOCATION(00002C42) IN CSECT(I7A27 ) LENGTH(2)
1428	N00093	588 ADDRESS. HEX LOCATION(00002C46) IN CSECT(I7A27 ) LENGTH(2)
1440	N00094	591 1414 ADDRESS. HEX LOCATION(00002C5E) IN CSECT(I7A27 ) LENGTH(2)
1443	N00095	594 ADDRESS. HEX LOCATION(00002C62) IN CSECT(I7A27 ) LENGTH(2)
1455	N00096	597 1429 ADDRESS. HEX LOCATION(00002C7A) IN CSECT(I7A27 ) LENGTH(2)
1458	N00097	600 ADDRESS. HEX LOCATION(00002C7E) IN CSECT(I7A27 ) LENGTH(2)
1470	N00098	603 1444 ADDRESS. HEX LOCATION(00002C96) IN CSECT(I7A27 ) LENGTH(2)
1473	N00099	606 ADDRESS. HEX LOCATION(00002C9A) IN CSECT(I7A27 ) LENGTH(2)
1476	N00100	609 1459 ADDRESS. HEX LOCATION(00002C9E) IN CSECT(I7A27 ) LENGTH(2)
1488	N00101	612 1402 ADDRESS. HEX LOCATION(00002CB6) IN CSECT(I7A27 ) LENGTH(2)
1491	N00102	615 ADDRESS. HEX LOCATION(00002CBA) IN CSECT(I7A27 ) LENGTH(2)
1494	N00103	618 1477 ADDRESS. HEX LOCATION(00002CBE) IN CSECT(I7A27 ) LENGTH(2)
1506	N00104	621 730 ADDRESS. HEX LOCATION(00002CD6) IN CSECT(I7A27 ) LENGTH(2)
1518	N00105	624 ADDRESS. HEX LOCATION(00002CEE) IN CSECT(I7A27 ) LENGTH(2)
1530	N00106	627 ADDRESS. HEX LOCATION(00002D06) IN CSECT(I7A27 ) LENGTH(2)
1533	N00107	630 ADDRESS. HEX LOCATION(00002D0A) IN CSECT(I7A27 ) LENGTH(2)
1536	N00108	633 1519 ADDRESS. HEX LOCATION(00002D0E) IN CSECT(I7A27 ) LENGTH(2)
1539	N00109	636 1507 ADDRESS. HEX LOCATION(00002D12) IN CSECT(I7A27 ) LENGTH(2)
1551	N00110	639 1495 ADDRESS. HEX LOCATION(00002D2A) IN CSECT(I7A27 ) LENGTH(2)
1563	N00111	642 ADDRESS. HEX LOCATION(00002D42) IN CSECT(I7A27 ) LENGTH(2)
1575	N00112	645 ADDRESS. HEX LOCATION(00002D5A) IN CSECT(I7A27 ) LENGTH(2)
1587	N00113	648 ADDRESS. HEX LOCATION(00002D74) IN CSECT(I7A27 ) LENGTH(2)
1599	N00114	651 ADDRESS. HEX LOCATION(00002D8C) IN CSECT(I7A27 ) LENGTH(2)
1602	N00115	654 ADDRESS. HEX LOCATION(00002D90) IN CSECT(I7A27 ) LENGTH(2)
1614	N00116	657 1588 ADDRESS. HEX LOCATION(00002DAE) IN CSECT(I7A27 ) LENGTH(2)
1617	N00117	660 ADDRESS. HEX LOCATION(00002DB2) IN CSECT(I7A27 ) LENGTH(2)
1620	N00118	663 1603 ADDRESS. HEX LOCATION(00002DB6) IN CSECT(I7A27 ) LENGTH(2)
1623	N00119	666 1576 ADDRESS. HEX LOCATION(00002DBA) IN CSECT(I7A27 ) LENGTH(2)
1635	N00120	669 1564 ADDRESS. HEX LOCATION(00002DD2) IN CSECT(I7A27 ) LENGTH(2)
1638	N00121	672 ADDRESS. HEX LOCATION(00002DD6) IN CSECT(I7A27 ) LENGTH(2)
1641	N00122	675 1624 ADDRESS. HEX LOCATION(00002DDA) IN CSECT(I7A27 ) LENGTH(2)
1653	N00123	678 1552 ADDRESS. HEX LOCATION(00002DF8) IN CSECT(I7A27 ) LENGTH(2)
1656	N00124	681 ADDRESS. HEX LOCATION(00002DFC) IN CSECT(I7A27 ) LENGTH(2)
1668	N00125	684 1642 ADDRESS. HEX LOCATION(00002E14) IN CSECT(I7A27 ) LENGTH(2)
1680	N00126	687 ADDRESS. HEX LOCATION(00002E2C) IN CSECT(I7A27 ) LENGTH(2)
1692	N00127	690 ADDRESS. HEX LOCATION(00002E44) IN CSECT(I7A27 ) LENGTH(2)
1695	N00128	693 ADDRESS. HEX LOCATION(00002E48) IN CSECT(I7A27 ) LENGTH(2)
1698	N00129	696 1681 ADDRESS. HEX LOCATION(00002E4C) IN CSECT(I7A27 ) LENGTH(2)
1701	N00130	699 1669 ADDRESS. HEX LOCATION(00002E50) IN CSECT(I7A27 ) LENGTH(2)
1704	N00131	702 1657 ADDRESS. HEX LOCATION(00002E54) IN CSECT(I7A27 ) LENGTH(2)
1716	N00132	705 1540 ADDRESS. HEX LOCATION(00002E6C) IN CSECT(I7A27 ) LENGTH(2)
1719	N00133	708 ADDRESS. HEX LOCATION(00002E70) IN CSECT(I7A27 ) LENGTH(2)
1731	N00134	711 1705 ADDRESS. HEX LOCATION(00002E88) IN CSECT(I7A27 ) LENGTH(2)
1734	N00135	714 ADDRESS. HEX LOCATION(00002E8C) IN CSECT(I7A27 ) LENGTH(2)
58	OF	717 1720 ABSOLUTE. HEX VALUE(00000202) 732 744 768 792 804 825 843 861 876 894 942 954 984 1020 1056 1080 1116 1134 1146 1164 1176 1233 1248 1272 1284 1311 1323 1350 1371 1383 1404 1446 1479 1497 1521 1554
57	ON	758 780 906 918 930 969 1002 1038 1068 ABSOLUTE. HEX VALUE(00000200) 1101 1188 1203 1221 1260 1335 1416 1431 1461 1509 1542 1566 1590 1626 1683 1722
1798	OPTN1	ADDRESS. HEX LOCATION(00002F1A) IN CSECT(I7A27 ) LENGTH(2)
1821	OPTN3	3050 3090 3328 ADDRESS. HEX LOCATION(00002F1E) IN CSECT(I7A27 ) LENGTH(2)
101	PARMARA	3139 3187 ADDRESS. HEX LOCATION(0000196E) IN CSECT(I7A27 ) LENGTH(1) 739 751 763 775 787 799 811 832 850 868 883 901 913 925 937 949 961 976 991 1003 1027 1045 1063 1075 1087 1108 1123 1141 1153 1171 1183 1195 1210 1228 1240 1255

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
		1267 1279 1291 1318 1330 1342 1357 1378 1390 1411 1423 1438 1453 1468 1486 1504 1516 1528 1549 1561 1573 1585 1597 1612 1633 1651 1666 1678 1690 1714 1729
69	PID	ADDRESS. HEX LOCATION(00001800) IN CSECT(I7A27 ) 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 3245
3281	PIDMSG10	ABSOLUTE. HEX VALUE(0000F1F0) 3245
1920	PREP	ABSOLUTE. HEX VALUE(0000000C) 3197
2096	RDDCB	ADDRESS. HEX LOCATION(00002FF2) IN CSECT(I7A27 ) LENGTH(2) 2250 2251 2253 2308 2309 2310
1927	RICB	ABSOLUTE. HEX VALUE(00000013) 3254
2118	RKDCB	ADDRESS. HEX LOCATION(00003012) IN CSECT(I7A27 ) LENGTH(2) 2262 2267
2129	RMDCB	ADDRESS. HEX LOCATION(00003022) IN CSECT(I7A27 ) LENGTH(2) 2242
2152	RSBA	ADDRESS. HEX LOCATION(0000304C) IN CSECT(I7A27 ) LENGTH(2) 2018 2034 2045 2056 2078 2089 2100 2111 2122 2133
2041	RSDCB	ADDRESS. HEX LOCATION(00002FA2) IN CSECT(I7A27 ) LENGTH(2) 2234 2239
0	R0	REGISTER. HEX VALUE(00000000) 2295 2297 2298
0	R1	REGISTER. HEX VALUE(00000001) 3234 3237 3240 3243
0	R2	REGISTER. HEX VALUE(00000002) 3239 3240
0	R3	REGISTER. HEX VALUE(00000003) 2181 2183 2235 2238 2245 2246 2249 2252 2263 2266 2282 2285 2288 2290 2311 2312 2933 2946 2949 2950 2953 2955 3012 3013 3014 3048 3049 3055 3059 3088 3089 3094 3107 3139 3184 3186 3187 3195 3232 3233 3249
0	R4	REGISTER. HEX VALUE(00000004) 2291 2292 2293 2939 2940 2943 2957 2958 2960 2961 2964 2970 2978 3050 3051 3053 3057 3061 3090 3091 3092 3102 3103 3104 3106 3109 3119 3121 3123 3126 3128 3328
0	R5	REGISTER. HEX VALUE(00000005) 2182 2183 2236 2238 2244 2246 2250 2252 2264 2266 2283 2285 2286 2288 2310 2312 2947 2949 2951 2953 2969 2976 3098 3099 3100 3131 3132 3134 3136 3185 3186 3231 3244
0	R6	REGISTER. HEX VALUE(00000006) 2184 2185 2281 2945 2965 2979 3015 3120 3125 3127 3135 3138 3140 3190 3196 3198 3236 3241 3242 3329
0	R7	REGISTER. HEX VALUE(00000007) 1900 2180 2237 2243 2251 2265 2284 2287 2294 2309 2948 2952 2959 3054 3095 3183 3188 3193 3226 3235 3238 3250 3253 3326
1861	SCTID	ADDRESS. HEX LOCATION(00002F28) IN CSECT(I7A27 ) LENGTH(2) 2048 2125 2181 2236 2239 2264 2267
2052	SKDCB	ADDRESS. HEX LOCATION(00002FB2) IN CSECT(I7A27 ) LENGTH(2) 2228
1918	START	ABSOLUTE. HEX VALUE(0000000A) 2962
104	SUPSTAT	ADDRESS. HEX LOCATION(000019C4) IN CSECT(I7A27 ) LENGTH(1) 3248
92	TUMSGWTR	ADDRESS. HEX LOCATION(000018BA) IN CSECT(I7A27 ) LENGTH(1) 3250
98	TURESUL	ADDRESS. HEX LOCATION(000018C8) IN CSECT(I7A27 ) LENGTH(1) 3332 3333
1890	TURTN	ADDRESS. HEX LOCATION(00002F62) IN CSECT(I7A27 ) LENGTH(2) 3255 3326
74	TUSTATUS	ADDRESS. HEX LOCATION(00001818) IN CSECT(I7A27 ) LENGTH(1) 3225
75	TUWORK	ADDRESS. HEX LOCATION(0000181A) IN CSECT(I7A27 ) LENGTH(1) 3228 3229 3230 3232 3288 3332 3333
1899	T7A02	ADDRESS. HEX LOCATION(00002F6A) IN CSECT(I7A27 ) LENGTH(6) 743 755 767 779 791 803 824 842 860 875 893 905 917 929 941 953 968 983 1001 1019 1037 1055 1067 1079 1100 1115 1133 1145 1163 1175 1187 1202 1220 1232 1247 1259 1271 1283 1310 1322 1334 1349 1370 1382 1403 1415 1430 1445 1460 1478 1496 1508 1520 1541 1553 1565 1577 1589 1604 1625 1643 1658 1670 1682 1706 1721
3326	T7A10	ADDRESS. HEX LOCATION(000034AE) IN CSECT(I7A27 ) LENGTH(4) 731
2085	VRDCB	ADDRESS. HEX LOCATION(00002FE2) IN CSECT(I7A27 ) LENGTH(2) 2256
2107	WKDCB	ADDRESS. HEX LOCATION(00003002) IN CSECT(I7A27 ) LENGTH(2) 2270 2271
2074	WRDCB	ADDRESS. HEX LOCATION(00002FD2) IN CSECT(I7A27 ) LENGTH(2) 2259 2305
1924	WRIT0	ABSOLUTE. HEX VALUE(00000010) 2300
1925	WRIT1	ABSOLUTE. HEX VALUE(00000011) 2302
2146	WRSID	ADDRESS. HEX LOCATION(00003040) IN CSECT(I7A27 ) LENGTH(2) 2037 2114 2182 2271 2275
2030	WSDCB	ADDRESS. HEX LOCATION(00002F92) IN CSECT(I7A27 ) LENGTH(2) 2274 2275
1837	XE	ABSOLUTE. HEX VALUE(00000024) 3057 3119
1835	XI	ABSOLUTE. HEX VALUE(00000022) 2293 2961 3104
2933	XIO	ADDRESS. HEX LOCATION(00003182) IN CSECT(I7A27 ) LENGTH(4) 2229 2232 2240 2247 2254 2257 2260 2268 2272 2276 2279
3119	XIOCK	ADDRESS. HEX LOCATION(00003256) IN CSECT(I7A27 ) LENGTH(2) 2971
3126	XIOCO	ADDRESS. HEX LOCATION(00003268) IN CSECT(I7A27 ) LENGTH(2) 3124

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
		3136 XIOCQ ADDRESS. HEX LOCATION(0000327E) IN CSECT(I7A27 ) LENGTH(4) 3133
		2941 XIOCS ADDRESS. HEX LOCATION(00003194) IN CSECT(I7A27 ) LENGTH(6) 3137
		3128 XIOCV ADDRESS. HEX LOCATION(0000326C) IN CSECT(I7A27 ) LENGTH(2) 3122
		3139 XIOCX ADDRESS. HEX LOCATION(0000328A) IN CSECT(I7A27 ) LENGTH(4) 3129
		2936 XIODG ADDRESS. HEX LOCATION(00003188) IN CSECT(I7A27 ) LENGTH(6) 2306 2313
		3012 XIOER ADDRESS. HEX LOCATION(000031F4) IN CSECT(I7A27 ) LENGTH(2) 3145
		2945 XIO1 ADDRESS. HEX LOCATION(000031A4) IN CSECT(I7A27 ) LENGTH(4) 2934 2937
		2958 XIO2 ADDRESS. HEX LOCATION(000031CA) IN CSECT(I7A27 ) LENGTH(2) 2944
		2970 XIO8 ADDRESS. HEX LOCATION(000031E0) IN CSECT(I7A27 ) LENGTH(2) 2301 2303 2977

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