

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976

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3 COPY LOG7A21 ** MAP EC HISTORY **
4 *****
5 *** PREREQUISITES ***
6 *
7 *
8 *
9 *
10 *****
11 *** MODIFICATIONS ***
12 *
13 *
14 CHANGES MADE TO CORRECT ERRORS FOUND WHILE IN TEST
15 *
16 *****
17 *** REA'S INCORPORATED ***
18 *
19 *
20 *
21 *
22 *****
23 *** SPECIAL INSTRUCTIONS ***
24 *
25 *
26 *
27 *
28 *****
29 *** E. C. HISTORY ***
30 *
31 *
32 DATE 17AUG78 DATE 02OCT78 DATE 10JAN79 DATE
33 E.C. 755391 E.C. 375102 E.C. 375222 E.C.
34 *
35 *****
37 I7A21 START X'2500' START ADDRESS OF ALL 'I' TYPE PROG
38 @QUES EQU X'0100' EQUATED VALUE FOR MDI STATEMENT
39 @FIXT EQU X'0101' EQUATED VALUE FOR MDI STATEMENT
40 @STOP EQU X'0102' EQUATED VALUE FOR MDI STATEMENT
41 @GOTO EQU X'0200' EQUATED VALUE FOR MDI STATEMENT
42 @CALL EQU X'0201' EQUATED VALUE FOR MDI STATEMENT
43 @INPT EQU X'0300' EQUATED VALUE FOR MDI STATEMENT
44 @QUXX EQU X'0400' EQUATED VALUE FOR MDI STATEMENT
45 @TRUX EQU X'0500' EQUATED VALUE FOR MDI STATEMENT
46 @NVLD EQU X'0600' EQUATED VALUE FOR MDI STATEMENT
47 @ EQU X'0000' EQUATE FOR EQUAL
48 NE EQU X'0004' EQUATE FOR NOT EQUAL
49 HI EQU X'0008' EQUATE FOR HIGH
50 NH EQU X'000C' EQUATE FOR NOT HIGH
51 LO EQU X'0010' EQUATE FOR LOW
52 NL EQU X'0014' EQUATE FOR NOT LOW
53 LT EQU X'0018' EQUATE FOR LESS THAN
54 LE EQU X'000C' EQUATE FOR LESS THAN OR EQUAL TO
55 GT EQU X'0008' EQUATE FOR GREATER THAN
56 GE EQU X'0014' EQUATE FOR GREATER THAN OR EQUAL TO
57 ON EQU X'0200' EQUATE FOR ON
58 OF EQU X'0202' EQUATE FOR OFF
59 MX EQU X'0204' EQUATE FOR MIXED
60 EBC EQU X'0000' EQUATE FOR EBCDIC DATA TRANSFER
61 HEX EQU X'0001' EQUATE FOR HEX DATA TRANSFER
62 XTRNL EQU X'0001' EQUATE FOR EXTERNAL REFERENCE
63 INTRNL EQU X'0000' EQUATE FOR INTERNAL REFERENCE
64 PARM EQU X'0000' EQUATE INDICATING PARAMETER
65 DA EQU X'0001' EQUATE FOR DEVICE ADDRESS
66 UA EQU X'0002' EQUATE FOR UNIT ADDRESS
67 DUMMY EQU X'0000' DUMMY EQUATE
68 PID EQU *X'0900' ADDRESS OF MDI HEADER
69 PTYD EQU *X'22CE' ADDRESS OF PROCESSOR TYPE FIELD
70 STEPNUM EQU PID+X'000C' ADDRESS OF DECIMAL STEP NUMBER
71 OPWD1 EQU PID+X'000E' ADDRESS OF OPTION WORD ONE
72 OPWD2 EQU PID+X'0010' ADDRESS OF OPTION WORD TWO
73 TUSTATUS EQU PID+X'0018' ADDRESS OF TU STATUS WORD
74 TWORK EQU PID+X'001A' ADDRESS OF TU WORK AREA
75 TUPARM1 EQU PID+X'009A' ADDRESS OF PARM 1 POINTER
76 TUPARM2 EQU PID+X'009C' ADDRESS OF PARM 2 POINTER
77 TUPARM3 EQU PID+X'009E' ADDRESS OF PARM 3 POINTER
78 TUPARM4 EQU PID+X'00A0' ADDRESS OF PARM 4 POINTER
79 TUPARM5 EQU PID+X'00A2' ADDRESS OF PARM 5 POINTER
80 TUPARM6 EQU PID+X'00A4' ADDRESS OF PARM 6 POINTER
81 TUPARM7 EQU PID+X'00A6' ADDRESS OF PARM 7 POINTER
82 TUPARM8 EQU PID+X'00A8' ADDRESS OF PARM 8 POINTER
83 TUPARM9 EQU PID+X'00AA' ADDRESS OF PARM 9 POINTER
84 TUPARM10 EQU PID+X'00AC' ADDRESS OF PARM 10 POINTER
85 TUPARM11 EQU PID+X'00AE' ADDRESS OF PARM 11 POINTER
86 TUPARM12 EQU PID+X'00B0' ADDRESS OF PARM 12 POINTER
87 TUPARM13 EQU PID+X'00B2' ADDRESS OF PARM 13 POINTER
88 TUPARM14 EQU PID+X'00B4' ADDRESS OF PARM 14 POINTER
89 TUPARM15 EQU PID+X'00B6' ADDRESS OF PARM 15 POINTER
90 TUPARM16 EQU PID+X'00B8' ADDRESS OF PARM 16 POINTER
91 TUSGWR EQU PID+X'00BA' ADDRESS OF -> TO COMMON MSG WRITER
92 TUA EQU PID+X'00BE' ADDRESS OF UNIT ADDRESS IN EBC
93 TUBA EQU PID+X'00C0' ADDRESS OF DEVICE ADDRESS IN EBC
94 TUBUFF EQU PID+X'00C2' ADDRESS OF LAST USED WORD IN MAP
95 TULAST EQU PID+X'00C4' ADDRESS OF LAST ADDRESSABLE WORD
96 TURESULN EQU PID+X'00C6' ADDRESS OF LENGTH OF TU RESULTS
97 TURESUL EQU PID+X'00C8' ADDRESS OF TU RESULTS FIELD
98 MAPNAME EQU PID+X'00FC' ADDRESS OF MAP NAME FIELD IN HEX
99 TUINPT EQU PID+X'0148' ADDRESS OF $INPT DATA
100 PARMARA EQU PID+X'016E' ADDRESS OF $INPT INPUT AREA
101 @DCADD1 EQU PID+X'01B8' MDI POINTER
102 @DCADD2 EQU PID+X'01BA' MDI POINTER
103 @DCADD3 EQU PID+X'01BC' MDI POINTER
104 SUPSTAT EQU PID+X'01C4' ADDRESS OF MDI STATUS
105 DEVADD EQU PID+X'01D0' ADDRESS OF DEVICE ADDRESS TABLE 0
106 DEVADD1 EQU PID+X'01D2' ADDRESS OF DEVICE ADDRESS TABLE 1
107 DEVADD2 EQU PID+X'01D4' ADDRESS OF DEVICE ADDRESS TABLE 2
108 DEVADD3 EQU PID+X'01D6' ADDRESS OF DEVICE ADDRESS TABLE 3
109 DEVADD4 EQU PID+X'01D8' ADDRESS OF DEVICE ADDRESS TABLE 4
110 DEVADD5 EQU PID+X'0202' ADDRESS OF DEVICE ADDRESS TABLE 5
111 DEVADD6 EQU PID+X'020C' ADDRESS OF DEVICE ADDRESS TABLE 6
112 DEVADD7 EQU PID+X'0216' ADDRESS OF DEVICE ADDRESS TABLE 7
113 PRINT OFF

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002500 33D8 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 ENTFY 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 *****

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LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
		308	*****	
		309	*****	
		310	**	
		311	**	STEP AND RULE ADDRESS TABLE
		312	**	
		313	*****	
		314	*****	
002502	2864	315	DC AL2(N00001)	
002504	0001	316	DC XL2'0001'	
000001		317	DC 0001	
002506	2876	318	EQN00001 EQU AL2(N00002)	
002508	0002	319	DC XL2'0002'	
000002		320	EQN00002 EQU 0002	
00250A	2888	321	DC AL2(N00003)	
00250C	0003	322	DC XL2'0003'	
000003		323	EQN00003 EQU 0003	
00250E	2894	324	DC AL2(N00004)	
002510	0004	325	DC XL2'0004'	
000004		326	EQN00004 EQU 0004	
002512	28AE	327	DC AL2(N00005)	
002514	0005	328	DC XL2'0005'	
000005		329	EQN00005 EQU 0005	
002516	28BA	330	DC AL2(N00006)	
002518	0006	331	DC XL2'0006'	
000006		332	EQN00006 EQU 0006	
00251A	28CC	333	DC AL2(N00007)	
00251C	0007	334	DC XL2'0007'	
000007		335	EQN00007 EQU 0007	
00251E	28D8	336	DC AL2(N00008)	
002520	0008	337	DC XL2'0008'	
000008		338	EQN00008 EQU 0008	
002522	28EA	339	DC AL2(N00009)	
002524	0009	340	DC XL2'0009'	
000009		341	EQN00009 EQU 0009	
002526	2902	342	DC AL2(N00010)	
002528	0010	343	DC XL2'0010'	
000010		344	EQN00010 EQU 0010	
00252A	2914	345	DC AL2(N00011)	
00252C	0011	346	DC XL2'0011'	
000011		347	EQN00011 EQU 0011	
00252E	2918	348	DC AL2(N00012)	
002530	0012	349	DC XL2'0012'	
000012		350	EQN00012 EQU 0012	
002532	292A	351	DC AL2(N00013)	
002534	0013	352	DC XL2'0013'	
000013		353	EQN00013 EQU 0013	
002536	2940	354	DC AL2(N00014)	
002538	0014	355	DC XL2'0014'	
000014		356	EQN00014 EQU 0014	
00253A	295E	357	DC AL2(N00015)	
00253C	0015	358	DC XL2'0015'	
000015		359	EQN00015 EQU 0015	
00253E	2978	360	DC AL2(N00016)	
002540	0016	361	DC XL2'0016'	
000016		362	EQN00016 EQU 0016	
002542	297C	363	DC AL2(N00017)	
002544	0017	364	DC XL2'0017'	
000017		365	EQN00017 EQU 0017	
002546	298A	366	DC AL2(N00018)	
002548	0018	367	DC XL2'0018'	
000018		368	EQN00018 EQU 0018	
00254A	2984	369	DC AL2(N00019)	
00254C	0019	370	DC XL2'0019'	
000019		371	EQN00019 EQU 0019	
00254E	2988	372	DC AL2(N00020)	
002550	0020	373	DC XL2'0020'	
000020		374	EQN00020 EQU 0020	
002552	298C	375	DC AL2(N00021)	
002554	0021	376	DC XL2'0021'	
000021		377	EQN00021 EQU 0021	
002556	2990	378	DC AL2(N00022)	
002558	0022	379	DC XL2'0022'	
000022		380	EQN00022 EQU 0022	
00255A	29AA	381	DC AL2(N00023)	
00255C	0023	382	DC XL2'0023'	
000023		383	EQN00023 EQU 0023	
00255E	29C4	384	DC AL2(N00024)	
002560	0024	385	DC XL2'0024'	
000024		386	EQN00024 EQU 0024	
002562	29DE	387	DC AL2(N00025)	
002564	0025	388	DC XL2'0025'	
000025		389	EQN00025 EQU 0025	
002566	29EA	390	DC AL2(N00026)	
002568	0026	391	DC XL2'0026'	
000026		392	EQN00026 EQU 0026	
00256A	2A04	393	DC AL2(N00027)	
00256C	0027	394	DC XL2'0027'	
000027		395	EQN00027 EQU 0027	
00256E	2A1E	396	DC AL2(N00028)	
002570	0028	397	DC XL2'0028'	
000028		398	EQN00028 EQU 0028	
002572	2A36	399	DC AL2(N00029)	
002574	0029	400	DC XL2'0029'	
000029		401	EQN00029 EQU 0029	
002576	2A3A	402	DC AL2(N00030)	
002578	0030	403	DC XL2'0030'	
000030		404	EQN00030 EQU 0030	
00257A	2A3E	405	DC AL2(N00031)	
00257C	0031	406	DC XL2'0031'	
000031		407	EQN00031 EQU 0031	
00257E	2A56	408	DC AL2(N00032)	
002580	0032	409	DC XL2'0032'	
000032		410	EQN00032 EQU 0032	
002582	2A6E	411	DC AL2(N00033)	
002584	0033	412	DC XL2'0033'	
000033		413	EQN00033 EQU 0033	
002586	2A88	414	DC AL2(N00034)	
002588	0034	415	DC XL2'0034'	
000034		416	EQN00034 EQU 0034	
00258A	2AA0	417	DC AL2(N00035)	
00258C	0035	418	DC XL2'0035'	
000035		419	EQN00035 EQU 0035	
00258E	2AA4	420	DC AL2(N00036)	
002590	0036	421	DC XL2'0036'	

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000024		422	EQN00036 EQU 0036	
002592	2AA8	423	DC AL2(N00037)	
002594	0037	424	DC XL2'0037'	
000025		425	EQN00037 EQU 0037	
002596	2AC0	426	DC AL2(N00038)	
002598	0038	427	DC XL2'0038'	
000026		428	EQN00038 EQU 0038	
00259A	2AC4	429	DC AL2(N00039)	
00259C	0039	430	DC XL2'0039'	
000027		431	EQN00039 EQU 0039	
00259E	2ADC	432	DC AL2(N00040)	
0025A0	0040	433	DC XL2'0040'	
000028		434	EQN00040 EQU 0040	
0025A2	2AE0	435	DC AL2(N00041)	
0025A4	0041	436	DC XL2'0041'	
000029		437	EQN00041 EQU 0041	
0025A6	2AE4	438	DC AL2(N00042)	
0025A8	0042	439	DC XL2'0042'	
00002A		440	EQN00042 EQU 0042	
0025AA	2AFC	441	DC AL2(N00043)	
0025AC	0043	442	DC XL2'0043'	
00002B		443	EQN00043 EQU 0043	
0025AE	2B00	444	DC AL2(N00044)	
0025B0	0044	445	DC XL2'0044'	
00002C		446	EQN00044 EQU 0044	
0025B2	2B04	447	DC AL2(N00045)	
0025B4	0045	448	DC XL2'0045'	
00002D		449	EQN00045 EQU 0045	
0025B6	2B1C	450	DC AL2(N00046)	
0025B8	0046	451	DC XL2'0046'	
00002E		452	EQN00046 EQU 0046	
0025BA	2B34	453	DC AL2(N00047)	
0025BC	0047	454	DC XL2'0047'	
00002F		455	EQN00047 EQU 0047	
0025BE	2B38	456	DC AL2(N00048)	
0025C0	0048	457	DC XL2'0048'	
000030		458	EQN00048 EQU 0048	
0025C2	2B50	459	DC AL2(N00049)	
0025C4	0049	460	DC XL2'0049'	
000031		461	EQN00049 EQU 0049	
0025C6	2B68	462	DC AL2(N00050)	
0025C8	0050	463	DC XL2'0050'	
000032		464	EQN00050 EQU 0050	
0025CA	2B6C	465	DC AL2(N00051)	
0025CC	0051	466	DC XL2'0051'	
000033		467	EQN00051 EQU 0051	
0025CE	2B84	468	DC AL2(N00052)	
0025D0	0052	469	DC XL2'0052'	
000034		470	EQN00052 EQU 0052	
0025D2	2B9C	471	DC AL2(N00053)	
0025D4	0053	472	DC XL2'0053'	
000035		473	EQN00053 EQU 0053	
0025D6	2BB2	474	DC AL2(N00054)	
0025D8	0054	475	DC XL2'0054'	
000036		476	EQN00054 EQU 0054	
0025DA	2BB6	477	DC AL2(N00055)	
0025DC	0055	478	DC XL2'0055'	
000037		479	EQN00055 EQU 0055	
0025DE	2BBA	480	DC AL2(N00056)	
0025E0	0056	481	DC XL2'0056'	
000038		482	EQN00056 EQU 0056	
0025E2	2BBE	483	DC AL2(N00057)	
0025E4	0057	484	DC XL2'0057'	
000039		485	EQN00057 EQU 0057	
0025E6	2BC2	486	DC AL2(N00058)	
0025E8	0058	487	DC XL2'0058'	
00003A		488	EQN00058 EQU 0058	
0025EA	2BDA	489	DC AL2(N00059)	
0025EC	0059	490	DC XL2'0059'	
00003B		491	EQN00059 EQU 0059	
0025EE	2BF2	492	DC AL2(N00060)	
0025F0	0060	493	DC XL2'0060'	
00003C		494	EQN00060 EQU 0060	
0025F2	2BF6	495	DC AL2(N00061)	
0025F4	0061	496	DC XL2'0061'	
00003D		497	EQN00061 EQU 0061	
0025F6	2BFA	498	DC AL2(N00062)	
0025F8	0062	499	DC XL2'0062'	
00003E		500	EQN00062 EQU 0062	
0025FA	2BFE	501	DC AL2(N00063)	
0025FC	0063	502	DC XL2'0063'	
00003F		503	EQN00063 EQU 0063	
0025FE	2C16	504	DC AL2(N00064)	
002600	0064	505	DC XL2'0064'	
000040		506	EQN00064 EQU 0064	
002602	2C2E	507	DC AL2(N00065)	
002604	0065	508	DC XL2'0065'	
000041		509	EQN00065 EQU 0065	
002606	2C46	510	DC AL2(N00066)	
002608	0066	511	DC XL2'0066'	
000042		512	EQN00066 EQU 0066	
00260A	2C4A	513	DC AL2(N00067)	
00260C	0067	514	DC XL2'0067'	
000043		515	EQN00067 EQU 0067	
00260E	2C60	516	DC AL2(N00068)	
002610	0068	517	DC XL2'0068'	
000044		518	EQN00068 EQU 0068	
002612	2C64	519	DC AL2(N00069)	
002614	0069	520	DC XL2'0069'	
000045		521	EQN00069 EQU 0069	
002616	2C68	522	DC AL2(N00070)	
002618	0070	523	DC XL2'0070'	
000046		524	EQN00070 EQU 0070	
00261A	2C6C	525	DC AL2(N00071)	
00261C	0071	526	DC XL2'0071'	
000047		527	EQN00071 EQU 0071	
00261E	2C70	528	DC AL2(N00072)	
002620	0072	529	DC XL2'0072'	
000048		530	EQN00072 EQU 0072	
002622	2C74	531	DC AL2(N00073)	
002624	0073	532	DC XL2'0073'	
000049		533	EQN00073 EQU 0073	
002626	2C78	534	DC AL2(N00074)	
002628	0074	535	DC XL2'0074'	

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
00004A		536	EQN00074 EQU 0074	
00262A	2C90	537	DC AL2(N00075)	
00262C	0075	538	DC XL2'0075'	
00004B		539	EQN00075 EQU 0075	
00262E	2CA8	540	DC AL2(N00076)	
002630	0076	541	DC XL2'0076'	
00004C		542	EQN00076 EQU 0076	
002632	2CC0	543	DC AL2(N00077)	
002634	0077	544	DC XL2'0077'	
00004D		545	EQN00077 EQU 0077	
002636	2CD8	546	DC AL2(N00078)	
002638	0078	547	DC XL2'0078'	
00004E		548	EQN00078 EQU 0078	
00263A	2CF0	549	DC AL2(N00079)	
00263C	0079	550	DC XL2'0079'	
00004F		551	EQN00079 EQU 0079	
00263E	2D08	552	DC AL2(N00080)	
002640	0080	553	DC XL2'0080'	
000050		554	EQN00080 EQU 0080	
002642	2D20	555	DC AL2(N00081)	
002644	0081	556	DC XL2'0081'	
000051		557	EQN00081 EQU 0081	
002646	2D48	558	DC AL2(N00082)	
002648	0082	559	DC XL2'0082'	
000052		560	EQN00082 EQU 0082	
00264A	2D28	561	DC AL2(N00083)	
00264C	0083	562	DC XL2'0083'	
000053		563	EQN00083 EQU 0083	
00264E	2D2C	564	DC AL2(N00084)	
002650	0084	565	DC XL2'0084'	
000054		566	EQN00084 EQU 0084	
002652	2D44	567	DC AL2(N00085)	
002654	0085	568	DC XL2'0085'	
000055		569	EQN00085 EQU 0085	
002656	2D48	570	DC AL2(N00086)	
002658	0086	571	DC XL2'0086'	
000056		572	EQN00086 EQU 0086	
00265A	2D4C	573	DC AL2(N00087)	
00265C	0087	574	DC XL2'0087'	
000057		575	EQN00087 EQU 0087	
00265E	2D50	576	DC AL2(N00088)	
002660	0088	577	DC XL2'0088'	
000058		578	EQN00088 EQU 0088	
002662	2D54	579	DC AL2(N00089)	
002664	0089	580	DC XL2'0089'	
000059		581	EQN00089 EQU 0089	
002666	2D72	582	DC AL2(N00090)	
002668	0090	583	DC XL2'0090'	
00005A		584	EQN00090 EQU 0090	
00266A	2D76	585	DC AL2(N00091)	
00266C	0091	586	DC XL2'0091'	
00005B		587	EQN00091 EQU 0091	
00266E	2D8E	588	DC AL2(N00092)	
002670	0092	589	DC XL2'0092'	
00005C		590	EQN00092 EQU 0092	
002672	2D92	591	DC AL2(N00093)	
002674	0093	592	DC XL2'0093'	
00005D		593	EQN00093 EQU 0093	
002676	2DAA	594	DC AL2(N00094)	
002678	0094	595	DC XL2'0094'	
00005E		596	EQN00094 EQU 0094	
00267A	2DAE	597	DC AL2(N00095)	
00267C	0095	598	DC XL2'0095'	
00005F		599	EQN00095 EQU 0095	
00267E	2DB2	600	DC AL2(N00096)	
002680	0096	601	DC XL2'0096'	
000060		602	EQN00096 EQU 0096	
002682	2DC4	603	DC AL2(N00097)	
002684	0097	604	DC XL2'0097'	
000061		605	EQN00097 EQU 0097	
002686	2DD6	606	DC AL2(N00098)	
002688	0098	607	DC XL2'0098'	
000062		608	EQN00098 EQU 0098	
00268A	2DF0	609	DC AL2(N00099)	
00268C	0099	610	DC XL2'0099'	
000063		611	EQN00099 EQU 0099	
00268E	2E0A	612	DC AL2(N00100)	
002690	0100	613	DC XL2'0100'	
000064		614	EQN00100 EQU 0100	
002692	2E0E	615	DC AL2(N00101)	
002694	0101	616	DC XL2'0101'	
000065		617	EQN00101 EQU 0101	
002696	2E12	618	DC AL2(N00102)	
002698	0102	619	DC XL2'0102'	
000066		620	EQN00102 EQU 0102	
00269A	2E24	621	DC AL2(N00103)	
00269C	0103	622	DC XL2'0103'	
000067		623	EQN00103 EQU 0103	
00269E	2E28	624	DC AL2(N00104)	
0026A0	0104	625	DC XL2'0104'	
000068		626	EQN00104 EQU 0104	
0026A2	2E2C	627	DC AL2(N00105)	
0026A4	0105	628	DC XL2'0105'	
000069		629	EQN00105 EQU 0105	
0026A6	2E44	630	DC AL2(N00106)	
0026A8	0106	631	DC XL2'0106'	
00006A		632	EQN00106 EQU 0106	
0026AA	2E56	633	DC AL2(N00107)	
0026AC	0107	634	DC XL2'0107'	
00006B		635	EQN00107 EQU 0107	
0026AE	2E5A	636	DC AL2(N00108)	
0026B0	0108	637	DC XL2'0108'	
00006C		638	EQN00108 EQU 0108	
0026B2	2E5E	639	DC AL2(N00109)	
0026B4	0109	640	DC XL2'0109'	
00006D		641	EQN00109 EQU 0109	
0026B6	2E76	642	DC AL2(N00110)	
0026B8	0110	643	DC XL2'0110'	
00006E		644	EQN00110 EQU 0110	
0026BA	2E7A	645	DC AL2(N00111)	
0026BC	0111	646	DC XL2'0111'	
00006F		647	EQN00111 EQU 0111	
0026BE	2E92	648	DC AL2(N00112)	
0026C0	0112	649	DC XL2'0112'	

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
000070		650	EQN00112 EQU 0112	
0026C2	2E96	651	DC AL2(N00113)	
0026C4	0113	652	DC XL2'0113'	
000071		653	EQN00113 EQU 0113	
0026C6	2E9A	654	DC AL2(N00114)	
0026C8	0114	655	DC XL2'0114'	
000072		656	EQN00114 EQU 0114	
0026CA	2EAC	657	DC AL2(N00115)	
0026CC	0115	658	DC XL2'0115'	
000073		659	EQN00115 EQU 0115	
0026CE	2EB0	660	DC AL2(N00116)	
0026D0	0116	661	DC XL2'0116'	
000074		662	EQN00116 EQU 0116	
0026D2	2EB4	663	DC AL2(N00117)	
0026D4	0117	664	DC XL2'0117'	
000075		665	EQN00117 EQU 0117	
0026D6	2EB8	666	DC AL2(N00118)	
0026D8	0118	667	DC XL2'0118'	
000076		668	EQN00118 EQU 0118	
0026DA	2ECA	669	DC AL2(N00119)	
0026DC	0119	670	DC XL2'0119'	
000077		671	EQN00119 EQU 0119	
0026DE	2EDC	672	DC AL2(N00120)	
0026E0	0120	673	DC XL2'0120'	
000078		674	EQN00120 EQU 0120	
0026E2	2EE8	675	DC AL2(N00121)	
0026E4	0121	676	DC XL2'0121'	
000079		677	EQN00121 EQU 0121	
0026E6	2EFA	678	DC AL2(N00122)	
0026E8	0122	679	DC XL2'0122'	
00007A		680	EQN00122 EQU 0122	
0026EA	2F0C	681	DC AL2(N00123)	
0026EC	0123	682	DC XL2'0123'	
00007B		683	EQN00123 EQU 0123	
0026EE	2F1E	684	DC AL2(N00124)	
0026F0	0124	685	DC XL2'0124'	
00007C		686	EQN00124 EQU 0124	
0026F2	2F30	687	DC AL2(N00125)	
0026F4	0125	688	DC XL2'0125'	
00007D		689	EQN00125 EQU 0125	
0026F6	2F48	690	DC AL2(N00126)	
0026F8	0126	691	DC XL2'0126'	
00007E		692	EQN00126 EQU 0126	
0026FA	2F5A	693	DC AL2(N00127)	
0026FC	0127	694	DC XL2'0127'	
00007F		695	EQN00127 EQU 0127	
0026FE	2F5E	696	DC AL2(N00128)	
002700	0128	697	DC XL2'0128'	
000080		698	EQN00128 EQU 0128	
002702	2F76	699	DC AL2(N00129)	
002704	0129	700	DC XL2'0129'	
000081		701	EQN00129 EQU 0129	
002706	2F8E	702	DC AL2(N00130)	
002708	0130	703	DC XL2'0130'	
000082		704	EQN00130 EQU 0130	
00270A	2F92	705	DC AL2(N00131)	
00270C	0131	706	DC XL2'0131'	
000083		707	EQN00131 EQU 0131	
00270E	2F96	708	DC AL2(N00132)	
002710	0132	709	DC XL2'0132'	
000084		710	EQN00132 EQU 0132	
002712	2FA8	711	DC AL2(N00133)	
002714	0133	712	DC XL2'0133'	
000085		713	EQN00133 EQU 0133	
002716	2FAC	714	DC AL2(N00134)	
002718	0134	715	DC XL2'0134'	
000086		716	EQN00134 EQU 0134	
00271A	2FB0	717	DC AL2(N00135)	
00271C	0135	718	DC XL2'0135'	
000087		719	EQN00135 EQU 0135	
00271E	2FB4	720	DC AL2(N00136)	
002720	0136	721	DC XL2'0136'	
000088		722	EQN00136 EQU 0136	
002722	2FB8	723	DC AL2(N00137)	
002724	0137	724	DC XL2'0137'	
000089		725	EQN00137 EQU 0137	
002726	2FD6	726	DC AL2(N00138)	
002728	0138	727	DC XL2'0138'	
00008A		728	EQN00138 EQU 0138	
00272A	2FF0	729	DC AL2(N00139)	
00272C	0139	730	DC XL2'0139'	
00008B		731	EQN00139 EQU 0139	
00272E	3008	732	DC AL2(N00140)	
002730	0140	733	DC XL2'0140'	
00008C		734	EQN00140 EQU 0140	
002732	300C	735	DC AL2(N00141)	
002734	0141	736	DC XL2'0141'	
00008D		737	EQN00141 EQU 0141	
002736	3010	738	DC AL2(N00142)	
002738	0142	739	DC XL2'0142'	
00008E		740	EQN00142 EQU 0142	
00273A	3022	741	DC AL2(N00143)	
00273C	0143	742	DC XL2'0143'	
00008F		743	EQN00143 EQU 0143	
00273E	3034	744	DC AL2(N00144)	
002740	0144	745	DC XL2'0144'	
000090		746	EQN00144 EQU 0144	
002742	3038	747	DC AL2(N00145)	
002744	0145	748	DC XL2'0145'	
000091		749	EQN00145 EQU 0145	
002746	303C	750	DC AL2(N00146)	
002748	0146	751	DC XL2'0146'	
000092		752	EQN00146 EQU 0146	
00274A	3040	753	DC AL2(N00147)	
00274C	0147	754	DC XL2'0147'	
000093		755	EQN00147 EQU 0147	
00274E	3058	756	DC AL2(N00148)	
002750	0148	757	DC XL2'0148'	
000094		758	EQN00148 EQU 0148	
002752	305C	759	DC AL2(N00149)	
002754	0149	760	DC XL2'0149'	
000095		761	EQN00149 EQU 0149	
002756	306E	762	DC AL2(N00150)	
002758	0150	763	DC XL2'0150'	

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT
000096		764	EQN00150 EQU 0150
00275A	3072	765	DC AL2 (N00151)
00275B	0151	766	DC XL2 '0151'
000097		767	EQN00151 EQU 0151
00275E	3076	768	DC AL2 (N00152)
002760	0152	769	DC XL2 '0152'
000098		770	EQN00152 EQU 0152
002762	3088	771	DC AL2 (N00153)
002764	0153	772	DC XL2 '0153'
000099		773	EQN00153 EQU 0153
002766	30A2	774	DC AL2 (N00154)
002768	0154	775	DC XL2 '0154'
00009A		776	EQN00154 EQU 0154
00276A	30BC	777	DC AL2 (N00155)
00276C	0155	778	DC XL2 '0155'
00009B		779	EQN00155 EQU 0155
00276E	30D4	780	DC AL2 (N00156)
002770	0156	781	DC XL2 '0156'
00009C		782	EQN00156 EQU 0156
002772	30EC	783	DC AL2 (N00157)
002774	0157	784	DC XL2 '0157'
00009D		785	EQN00157 EQU 0157
002776	30F0	786	DC AL2 (N00158)
002778	0158	787	DC XL2 '0158'
00009E		788	EQN00158 EQU 0158
00277A	30F4	789	DC AL2 (N00159)
00277C	0159	790	DC XL2 '0159'
00009F		791	EQN00159 EQU 0159
00277E	310E	792	DC AL2 (N00160)
002780	0160	793	DC XL2 '0160'
0000A0		794	EQN00160 EQU 0160
002782	3112	795	DC AL2 (N00161)
002784	0161	796	DC XL2 '0161'
0000A1		797	EQN00161 EQU 0161
002786	3116	798	DC AL2 (N00162)
002788	0162	799	DC XL2 '0162'
0000A2		800	EQN00162 EQU 0162
00278A	311A	801	DC AL2 (N00163)
00278C	0163	802	DC XL2 '0163'
0000A3		803	EQN00163 EQU 0163
00278E	3134	804	DC AL2 (N00164)
002790	0164	805	DC XL2 '0164'
0000A4		806	EQN00164 EQU 0164
002792	314C	807	DC AL2 (N00165)
002794	0165	808	DC XL2 '0165'
0000A5		809	EQN00165 EQU 0165
002796	3164	810	DC AL2 (N00166)
002798	0166	811	DC XL2 '0166'
0000A6		812	EQN00166 EQU 0166
00279A	317E	813	DC AL2 (N00167)
00279C	0167	814	DC XL2 '0167'
0000A7		815	EQN00167 EQU 0167
00279E	3198	816	DC AL2 (N00168)
0027A0	0168	817	DC XL2 '0168'
0000A8		818	EQN00168 EQU 0168
0027A2	319C	819	DC AL2 (N00169)
0027A4	0169	820	DC XL2 '0169'
0000A9		821	EQN00169 EQU 0169
0027A6	31A0	822	DC AL2 (N00170)
0027A8	0170	823	DC XL2 '0170'
0000AA		824	EQN00170 EQU 0170
0027AA	31A4	825	DC AL2 (N00171)
0027AC	0171	826	DC XL2 '0171'
0000AB		827	EQN00171 EQU 0171
0027AE	31A8	828	DC AL2 (N00172)
0027B0	0172	829	DC XL2 '0172'
0000AC		830	EQN00172 EQU 0172
0027B2	31AC	831	DC AL2 (N00173)
0027B4	0173	832	DC XL2 '0173'
0000AD		833	EQN00173 EQU 0173
0027B6	31B0	834	DC AL2 (N00174)
0027B8	0174	835	DC XL2 '0174'
0000AE		836	EQN00174 EQU 0174
0027BA	31C2	837	DC AL2 (N00175)
0027BC	0175	838	DC XL2 '0175'
0000AF		839	EQN00175 EQU 0175
0027BE	31DA	840	DC AL2 (N00176)
0027C0	0176	841	DC XL2 '0176'
0000B0		842	EQN00176 EQU 0176
0027C2	31EC	843	DC AL2 (N00177)
0027C4	0177	844	DC XL2 '0177'
0000B1		845	EQN00177 EQU 0177
0027C6	31F0	846	DC AL2 (N00178)
0027C8	0178	847	DC XL2 '0178'
0000B2		848	EQN00178 EQU 0178
0027CA	320A	849	DC AL2 (N00179)
0027CC	0179	850	DC XL2 '0179'
0000B3		851	EQN00179 EQU 0179
0027CE	320E	852	DC AL2 (N00180)
0027D0	0180	853	DC XL2 '0180'
0000B4		854	EQN00180 EQU 0180
0027D2	322C	855	DC AL2 (N00181)
0027D4	0181	856	DC XL2 '0181'
0000B5		857	EQN00181 EQU 0181
0027D6	3230	858	DC AL2 (N00182)
0027D8	0182	859	DC XL2 '0182'
0000B6		860	EQN00182 EQU 0182
0027DA	3234	861	DC AL2 (N00183)
0027DC	0183	862	DC XL2 '0183'
0000B7		863	EQN00183 EQU 0183
0027DE	3238	864	DC AL2 (N00184)
0027E0	0184	865	DC XL2 '0184'
0000B8		866	EQN00184 EQU 0184
0027E2	323C	867	DC AL2 (N00185)
0027E4	0185	868	DC XL2 '0185'
0000B9		869	EQN00185 EQU 0185
0027E6	3256	870	DC AL2 (N00186)
0027E8	0186	871	DC XL2 '0186'
0000BA		872	EQN00186 EQU 0186
0027EA	326E	873	DC AL2 (N00187)
0027EC	0187	874	DC XL2 '0187'
0000BB		875	EQN00187 EQU 0187
0027EE	3288	876	DC AL2 (N00188)
0027F0	0188	877	DC XL2 '0188'

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT
0000BC		878	EQN00188 EQU 0188
0027F2	329A	879	DC AL2 (N00189)
0027F4	0189	880	DC XL2 '0189'
0000BD		881	EQN00189 EQU 0189
0027F6	329E	882	DC AL2 (N00190)
0027F8	0190	883	DC XL2 '0190'
0000BE		884	EQN00190 EQU 0190
0027FA	32BC	885	DC AL2 (N00191)
0027FC	0191	886	DC XL2 '0191'
0000BF		887	EQN00191 EQU 0191
0027FE	32D4	888	DC AL2 (N00192)
002800	0192	889	DC XL2 '0192'
0000C0		890	EQN00192 EQU 0192
002802	32EC	891	DC AL2 (N00193)
002804	0193	892	DC XL2 '0193'
0000C1		893	EQN00193 EQU 0193
002806	32FE	894	DC AL2 (N00194)
002808	0194	895	DC XL2 '0194'
0000C2		896	EQN00194 EQU 0194
00280A	3302	897	DC AL2 (N00195)
00280C	0195	898	DC XL2 '0195'
0000C3		899	EQN00195 EQU 0195
00280E	331C	900	DC AL2 (N00196)
002810	0196	901	DC XL2 '0196'
0000C4		902	EQN00196 EQU 0196
002812	332E	903	DC AL2 (N00197)
002814	0197	904	DC XL2 '0197'
0000C5		905	EQN00197 EQU 0197
002816	3332	906	DC AL2 (N00198)
002818	0198	907	DC XL2 '0198'
0000C6		908	EQN00198 EQU 0198
00281A	3336	909	DC AL2 (N00199)
00281C	0199	910	DC XL2 '0199'
0000C7		911	EQN00199 EQU 0199
00281E	333A	912	DC AL2 (N00200)
002820	0200	913	DC XL2 '0200'
0000C8		914	EQN00200 EQU 0200
002822	3352	915	DC AL2 (N00201)
002824	0201	916	DC XL2 '0201'
0000C9		917	EQN00201 EQU 0201
002826	3356	918	DC AL2 (N00202)
002828	0202	919	DC XL2 '0202'
0000CA		920	EQN00202 EQU 0202
00282A	335A	921	DC AL2 (N00203)
00282C	0203	922	DC XL2 '0203'
0000CB		923	EQN00203 EQU 0203
00282E	336C	924	DC AL2 (N00204)
002830	0204	925	DC XL2 '0204'
0000CC		926	EQN00204 EQU 0204
002832	3370	927	DC AL2 (N00205)
002834	0205	928	DC XL2 '0205'
0000CD		929	EQN00205 EQU 0205
002836	3374	930	DC AL2 (N00206)
002838	0206	931	DC XL2 '0206'
0000CE		932	EQN00206 EQU 0206
00283A	3378	933	DC AL2 (N00207)
00283C	0207	934	DC XL2 '0207'
0000CF		935	EQN00207 EQU 0207
00283E	3390	936	DC AL2 (N00208)
002840	0208	937	DC XL2 '0208'
0000D0		938	EQN00208 EQU 0208
002842	3394	939	DC AL2 (N00209)
002844	0209	940	DC XL2 '0209'
0000D1		941	EQN00209 EQU 0209
002846	3398	942	DC AL2 (N00210)
002848	0210	943	DC XL2 '0210'
0000D2		944	EQN00210 EQU 0210
00284A	33B0	945	DC AL2 (N00211)
00284C	0211	946	DC XL2 '0211'
0000D3		947	EQN00211 EQU 0211
00284E	33B4	948	DC AL2 (N00212)
002850	0212	949	DC XL2 '0212'
0000D4		950	EQN00212 EQU 0212
002852	33B8	951	DC AL2 (N00213)
002854	0213	952	DC XL2 '0213'
0000D5		953	EQN00213 EQU 0213
002856	33CA	954	DC AL2 (N00214)
002858	0214	955	DC XL2 '0214'
0000D6		956	EQN00214 EQU 0214
00285A	33CE	957	DC AL2 (N00215)
00285C	0215	958	DC XL2 '0215'
0000D7		959	EQN00215 EQU 0215
00285E	33D2	960	DC AL2 (N00216)
002860	0216	961	DC XL2 '0216'
0000D8		962	EQN00216 EQU 0216
002862	0000	963	DC AL2 (DUMMY)
		964	*****
		965	*****
		966	*****
		967	**
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		969	**
		970	*****
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		985	*****
		986	*****
		987	*****
		988	*****
		989	*****
		990	*****
		991	*****

RULE INFORMATION TABLE

971	N00001	STUXX	T7A10,01,C3,EQ,QT=(Q00074),YES=N00117,CT=(C00114)
972	N00001	DC	A(@TUXX)
973		DC	AL2(N00117)
974		DC	A(T7A10)
975		DC	AL2(EQ)
976		DC	AL2(01)
977		DC	X'C3'
978		DC	ALIGN
979		DC	AL2(0)
980		DC	C'AA'
981		DC	ALIGN WORD
982		DC	AL2(PARMARA)
983	N00002	STUXX	T7A02,01,D5,EQ,QT=(Q00075),YES=N00004,CT=(C00119)
984	N00002	DC	A(@TUXX)
985		DC	AL2(N00004)
986		DC	A(T7A02)
987		DC	AL2(EQ)
988		DC	AL2(01)
989		DC	X'D5'
990		DC	ALIGN
991		DC	AL2(0)

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LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976

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002884 C1C1 992+ DC C'AA'
002886 196E 993+ ALIGN WORD
          994+ DC AL2(PARMARA)
002888 0200 995+ $GOTO TYPE=INTRNL,EP=B,FT=(F00076),GTO=(N00118)
00288A 33E 996+ N00003 DC A(@GOTO)
00288C F3C3F0F0 997+ DC A(F00076)
002890 C240 998+ DC CL4'3C00'
002892 0000 999+ DC CL2'B'
          1000+ DC AL2(INTRNL)
002894 0500 1001+ STUXX T7A02,09,0000000000000008,ON,QT=(Q00007),YES=N00006, X
002896 28BA 1002+ N00004 DC A(@TUXX)
002898 367E 1003+ DC AL2(N00006)
00289A 0200 1004+ DC A(T7A02)
00289C 0009 1005+ DC AL2(ON)
00289E 0000000000000000 1006+ DC AL2(09)
0028A7 00 1007+ DC X'00000000000000000008'
0028A8 0000 1008+ ALIGN WORD
0028AA C1C1 1009+ DC AL2(0)
          1010+ DC C'AA'
          1011+ ALIGN WORD
0028AC 196E 1012+ DC AL2(PARMARA)
          1013+ $CALL TYPE=XTRNL,EP=E,MAP=7A23,FT=(F00077),GTO=((7A23,E))
0028AE 0201 1014+ N00005 DC A(@CALL)
0028B0 33F0 1015+ DC A(F00077)
0028B2 F7C1F2F3 1016+ DC CL4'7A23'
0028B6 C540 1017+ DC CL2'E'
0028B8 0001 1018+ DC AL2(XTRNL)
          1019+ STUXX T7A02,02,0004,OF,QT=(Q00006),YES=N00008,CT=(C00062)
0028BA 0500 1020+ N00006 DC A(@TUXX)
0028BC 28D8 1021+ DC AL2(N00008)
0028BD 367E 1022+ DC A(T7A02)
0028C0 0202 1023+ DC AL2(OF)
0028C2 0002 1024+ DC AL2(02)
0028C4 0004 1025+ DC X'0004'
          1026+ ALIGN WORD
0028C6 0000 1027+ DC AL2(0)
0028C8 C1C1 1028+ DC C'AA'
          1029+ ALIGN WORD
0028CA 196E 1030+ DC AL2(PARMARA)
          1031+ $CALL TYPE=XTRNL,EP=I,MAP=7A25,FT=(F00078),GTO=((7A25,I))
0028CC 0201 1032+ N00007 DC A(@CALL)
0028CE 33FE 1033+ DC A(F00078)
0028D0 0202 1034+ DC CL4'7A25'
0028D4 C940 1035+ DC CL2'I'
0028D6 0001 1036+ DC AL2(XTRNL)
          1037+ STUXX T7A02,02,0002,OF,QT=(Q00006),YES=N00022,CT=(C00032)
0028D8 0500 1038+ N00008 DC A(@TUXX)
0028DA 2990 1039+ DC AL2(N00022)
0028DC 367E 1040+ DC A(T7A02)
0028DE 0202 1041+ DC AL2(OF)
0028E0 0002 1042+ DC AL2(02)
0028E2 0002 1043+ DC X'0002'
          1044+ ALIGN WORD
0028E4 0000 1045+ DC AL2(0)
0028E6 C1C1 1046+ DC C'AA'
          1047+ ALIGN WORD
0028E8 196E 1048+ DC AL2(PARMARA)
          1049+ STUXX T7A02,07,00001000000010,OF,QT=(Q00006),YES=N00021, X
0028EA 0500 1050+ N00009 DC A(@TUXX)
0028EC 298C 1051+ DC AL2(N00021)
0028EE 367E 1052+ DC A(T7A02)
0028F0 0202 1053+ DC AL2(OF)
0028F2 0007 1054+ DC AL2(07)
0028F4 00001000000010 1055+ DC X'00001000000010'
          1056+ ALIGN WORD
0028F6 0000 1057+ DC AL2(0)
0028FC 0000 1058+ DC C'AA'
0028FE C1C1 1059+ ALIGN WORD
          1060+ DC AL2(PARMARA)
002900 196E 1061+ N00010 STUXX T7A02,02,0040,OF,QT=(Q00006),YES=N00012,CT=(C00064)
          1062+ N00010 DC A(@TUXX)
          1063+ DC AL2(N00012)
          1064+ DC A(T7A02)
          1065+ DC AL2(OF)
          1066+ DC AL2(02)
          1067+ DC X'0040'
          1068+ ALIGN WORD
00290E 0000 1069+ DC AL2(0)
002910 C1C1 1070+ DC C'AA'
          1071+ ALIGN WORD
002912 196E 1072+ DC AL2(PARMARA)
          1073+ $FIXT FT=(F00079),GTO=((7A72,Q))
002914 0101 1074+ N00011 DC A(@FIXT)
002916 340C 1075+ DC A(F00079)
          1076+ N00012 STUXX T7A02,02,0001,OF,QT=(Q00006),YES=N00020,CT=(C00073)
          1077+ N00012 DC A(@TUXX)
          1078+ DC AL2(N00020)
          1079+ DC A(T7A02)
          1080+ DC AL2(OF)
          1081+ DC AL2(02)
          1082+ DC X'0001'
          1083+ ALIGN WORD
002924 0000 1084+ DC AL2(0)
002926 C1C1 1085+ DC C'AA'
          1086+ ALIGN WORD
002928 196E 1087+ DC AL2(PARMARA)
          1088+ N00013 STUXX T7A02,05,0000000008,OF,QT=(Q00006),YES=N00019, X
          1089+ N00013 DC A(@TUXX)
          1090+ DC AL2(N00019)
          1091+ DC A(T7A02)
          1092+ DC AL2(OF)
          1093+ DC AL2(05)
          1094+ DC X'0000000080'
          1095+ ALIGN WORD
00293A 0000 1096+ DC AL2(0)
00293C C1C1 1097+ DC C'AA'
          1098+ ALIGN WORD
00293E 196E 1099+ DC AL2(PARMARA)
          1100+ N00014 STUXX T7A02,14,00000000000000000000100,OF,QT=(Q00042), X
          1101+ N00014 DC A(@TUXX)
          1102+ DC AL2(N00018)
          1103+ DC A(T7A02)
          1104+ DC AL2(OF)
          1105+ DC AL2(14)

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LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976

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00294A 0000000000000000 1106+ DC X'0000000000000000000000000000100'
00295A 0000 1107+ ALIGN WORD
00295B C1C1 1108+ DC AL2(0)
          1109+ DC C'AA'
          1110+ ALIGN WORD
00295C 196E 1111+ DC AL2(PARMARA)
          1112+ N00015 STUXX T7A02,09,00000000100000001,OF,QT=(Q00006),YES=N00017, X
          1113+ N00015 DC A(@TUXX)
          1114+ DC AL2(N00017)
          1115+ DC A(T7A02)
          1116+ DC AL2(OF)
          1117+ DC AL2(09)
          1118+ DC X'00000000100000001'
          1119+ ALIGN WORD
          1120+ DC AL2(0)
          1121+ DC C'AA'
          1122+ ALIGN WORD
002976 196E 1123+ DC AL2(PARMARA)
          1124+ N00016 $FIXT FT=(F00033),GTO=((7A70,C))
          1125+ N00016 DC A(@FIXT)
00297A 341A 1126+ DC A(F00033)
          1127+ N00017 $FIXT FT=(F00080),GTO=((7A72,U))
00297C 0101 1128+ N00017 DC A(@FIXT)
00297E 342B 1129+ DC A(F00080)
          1130+ N00018 $FIXT FT=(F00047),GTO=((7A70,B))
002980 0101 1131+ N00018 DC A(@FIXT)
002982 3436 1132+ DC A(F00047)
          1133+ N00019 $FIXT FT=(F00080),GTO=((7A72,U))
          1134+ N00019 DC A(@FIXT)
002984 0101 1135+ DC A(F00080)
002986 342B 1136+ N00020 $FIXT FT=(F00031),GTO=((7A70,J))
          1137+ N00020 DC A(@FIXT)
002988 0101 1138+ DC A(F00031)
00298A 3444 1139+ N00021 $FIXT FT=(F00081),GTO=((7A72,Q))
          1140+ N00021 DC A(@FIXT)
00298C 0101 1141+ DC A(F00081)
00298E 3452 1142+ N00022 STUXX T7A02,09,00000000100000001,OF,QT=(Q00006),YES=N00074, X
          1143+ N00022 DC A(@TUXX)
          1144+ DC AL2(N00074)
          1145+ DC A(T7A02)
          1146+ DC AL2(02)
          1147+ DC AL2(09)
          1148+ DC X'00000000100000001'
          1149+ ALIGN WORD
0029A4 0000 1150+ DC AL2(0)
0029A6 C1C1 1151+ DC C'AA'
          1152+ ALIGN WORD
0029A8 196E 1153+ DC AL2(PARMARA)
          1154+ N00023 STUXX T7A02,09,000000001000000010,OF,QT=(Q00006),YES=N00073, Y
          1155+ N00023 DC A(@TUXX)
0029AA 0500 1156+ DC AL2(N00073)
0029AC 2C74 1157+ DC A(T7A02)
0029AE 367E 1158+ DC AL2(OF)
0029B0 0202 1159+ DC AL2(02)
0029B2 0009 1160+ DC AL2(09)
0029B4 00000000100000001 1161+ DC X'000000001000000010'
0029B6 00 1162+ ALIGN WORD
0029B8 0000 1163+ DC AL2(0)
0029C0 C1C1 1164+ DC C'AA'
          1165+ ALIGN WORD
0029C2 196E 1166+ DC AL2(PARMARA)
          1167+ N00024 STUXX T7A02,09,00001000000010000,OF,QT=(Q00006),YES=N00026, X
          1168+ N00024 DC A(@TUXX)
          1169+ DC AL2(N00026)
          1170+ DC A(T7A02)
          1171+ DC AL2(OF)
          1172+ DC AL2(09)
          1173+ DC X'00001000000010000'
          1174+ ALIGN WORD
          1175+ DC AL2(0)
          1176+ DC C'AA'
          1177+ ALIGN WORD
0029DC 196E 1178+ N00025 $CALL TYPE=XTRNL,EP=J,MAP=7A27,FT=(F00082),GTO=((7A27,J))
          1179+ N00025 DC A(@CALL)
0029DE 0201 1180+ DC A(F00082)
0029E0 3460 1181+ DC CL4'7A27'
0029E2 F7C1F2F7 1182+ DC CL2'J'
0029E4 0140 1183+ DC AL2(XTRNL)
0029E8 0001 1184+ N00026 STUXX T7A02,09,00001000000010000,OF,QT=(Q00006),YES=N00072, X
          1185+ N00026 DC A(@TUXX)
          1186+ DC AL2(N00072)
          1187+ DC A(T7A02)
          1188+ DC AL2(OF)
          1189+ DC AL2(09)
          1190+ DC X'00001000000010000'
          1191+ ALIGN WORD
          1192+ DC AL2(0)
          1193+ DC C'AA'
          1194+ ALIGN WORD
002A02 196E 1195+ DC AL2(PARMARA)
          1196+ N00027 STUXX T7A02,09,000000008000000080,OF,QT=(Q00006),YES=N00031, X
          1197+ N00027 DC A(@TUXX)
          1198+ DC AL2(N00031)
          1199+ DC A(T7A02)
          1200+ DC AL2(OF)
          1201+ DC AL2(09)
          1202+ DC X'000000008000000080'
          1203+ ALIGN WORD
          1204+ DC AL2(0)
          1205+ DC C'AA'
          1206+ ALIGN WORD
002A1C 196E 1207+ DC AL2(PARMARA)
          1208+ N00028 STUXX T7A02,08,000000000000400,ON,QT=(Q00007),YES=N00030, X
          1209+ N00028 DC A(@TUXX)
          1210+ DC AL2(N00030)
          1211+ DC A(T7A02)
          1212+ DC AL2(ON)
          1213+ DC AL2(08)
          1214+ DC X'00000000000000400'
          1215+ ALIGN WORD
          1216+ DC AL2(0)
          1217+ DC C'AA'
          1218+ ALIGN WORD
002A34 196E 1219+ DC AL2(PARMARA)

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 LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976

1220 N00029 \$FIXT FT=(F00033),GTO=((7A70,C))  
 1221+ N00029 DC A(@FIXT)  
 1222+ DC A(F00033)  
 1223 N00030 \$FIXT FT=(F00083),GTO=((7A76,U))  
 1224+ N00030 DC A(@FIXT)  
 1225+ DC A(F00083)  
 1226 N00031 \$TUXX T7A02,07,00008000000080,OF,QT=(Q00006),YES=N00045, X  
 1227+ N00031 DC A(@TUXX)  
 1228+ DC AL2(N00045)  
 1229+ DC A(T7A02)  
 1230+ DC AL2(OF)  
 1231+ DC AL2(07)  
 1232+ DC X\*00008000000080\*  
 1233+ ALIGN WORD  
 1234+ DC AL2(0)  
 1235+ DC C'AA'  
 1236+ ALIGN WORD  
 1237+ DC AL2(PARMARA)  
 1238 N00032 \$TUXX T7A02,07,00000000000020,ON,QT=(Q00007),YES=N00042, X  
 1239+ N00032 DC A(@TUXX)  
 1240+ DC AL2(N00042)  
 1241+ DC A(T7A02)  
 1242+ DC AL2(ON)  
 1243+ DC AL2(07)  
 1244+ DC X\*00000000000020\*  
 1245+ ALIGN WORD  
 1246+ DC AL2(0)  
 1247+ DC C'AA'  
 1248+ ALIGN WORD  
 1249+ DC AL2(PARMARA)  
 1250 N00033 \$TUXX T7A02,09,000000004000000040,OF,QT=(Q00006),YES=N00037, Y  
 1251+ N00033 DC A(@TUXX)  
 1252+ DC AL2(N00037)  
 1253+ DC A(T7A02)  
 1254+ DC AL2(OF)  
 1255+ DC AL2(09)  
 1256+ DC X\*000000004000000040\*  
 1257+ ALIGN WORD  
 1258+ DC AL2(0)  
 1259+ DC C'AA'  
 1260+ ALIGN WORD  
 1261+ DC AL2(PARMARA)  
 1262 N00034 \$TUXX T7A02,08,0000000000000040,ON,QT=(Q00007),YES=N00036, X  
 1263+ N00034 DC A(@TUXX)  
 1264+ DC AL2(N00036)  
 1265+ DC A(T7A02)  
 1266+ DC AL2(ON)  
 1267+ DC AL2(08)  
 1268+ DC X\*0000000000000040\*  
 1269+ ALIGN WORD  
 1270+ DC AL2(0)  
 1271+ DC C'AA'  
 1272+ ALIGN WORD  
 1273+ DC AL2(PARMARA)  
 1274 N00035 \$FIXT FT=(F00084),GTO=((7A72,F))  
 1275+ N00035 DC A(@FIXT)  
 1276+ DC A(F00084)  
 1277 N00036 \$FIXT FT=(F00085),GTO=((7A76,R))  
 1278+ N00036 DC A(@FIXT)  
 1279+ DC A(F00085)  
 1280 N00037 \$TUXX T7A02,07,00000000000080,ON,QT=(Q00007),YES=N00039, X  
 1281+ N00037 DC A(@TUXX)  
 1282+ DC AL2(N00039)  
 1283+ DC A(T7A02)  
 1284+ DC AL2(ON)  
 1285+ DC AL2(07)  
 1286+ DC X\*00000000000080\*  
 1287+ ALIGN WORD  
 1288+ DC AL2(0)  
 1289+ DC C'AA'  
 1290+ ALIGN WORD  
 1291+ DC AL2(PARMARA)  
 1292 N00038 \$FIXT FT=(F00083),GTO=((7A76,U))  
 1293+ N00038 DC A(@FIXT)  
 1294+ DC A(F00083)  
 1295 N00039 \$TUXX T7A02,08,0000004000000040,OF,QT=(Q00006),YES=N00041, X  
 1296+ N00039 DC A(@TUXX)  
 1297+ DC AL2(N00041)  
 1298+ DC A(T7A02)  
 1299+ DC AL2(OF)  
 1300+ DC AL2(08)  
 1301+ DC X\*0000004000000040\*  
 1302+ ALIGN WORD  
 1303+ DC AL2(0)  
 1304+ DC C'AA'  
 1305+ ALIGN WORD  
 1306+ DC AL2(PARMARA)  
 1307 N00040 \$FIXT FT=(F00052),GTO=((7A70,E))  
 1308+ N00040 DC A(@FIXT)  
 1309+ DC A(F00052)  
 1310 N00041 \$FIXT FT=(F00084),GTO=((7A72,F))  
 1311+ N00041 DC A(@FIXT)  
 1312+ DC A(F00084)  
 1313 N00042 \$TUXX T7A02,07,00000100000001,OF,QT=(Q00006),YES=N00044, X  
 1314+ N00042 DC A(@TUXX)  
 1315+ DC AL2(N00044)  
 1316+ DC A(T7A02)  
 1317+ DC AL2(OF)  
 1318+ DC AL2(07)  
 1319+ DC X\*00000100000001\*  
 1320+ ALIGN WORD  
 1321+ DC AL2(0)  
 1322+ DC C'AA'  
 1323+ ALIGN WORD  
 1324+ DC AL2(PARMARA)  
 1325 N00043 \$FIXT FT=(F00083),GTO=((7A76,U))  
 1326+ N00043 DC A(@FIXT)  
 1327+ DC A(F00083)  
 1328 N00044 \$FIXT FT=(F00085),GTO=((7A76,R))  
 1329+ N00044 DC A(@FIXT)  
 1330+ DC A(F00085)  
 1331 N00045 \$TUXX T7A02,07,00000000000020,ON,QT=(Q00007),YES=N00063, X  
 1332+ N00045 DC A(@TUXX)  
 1333+ DC AL2(N00063)

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 LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976

1334+ DC A(T7A02)  
 1335+ DC AL2(ON)  
 1336+ DC AL2(07)  
 1337+ DC X\*00000000000020\*  
 1338+ ALIGN WORD  
 1339+ DC AL2(0)  
 1340+ DC C'AA'  
 1341+ ALIGN WORD  
 1342+ DC AL2(PARMARA)  
 1343 N00046 \$TUXX T7A02,08,0000008000000080,OF,QT=(Q00006),YES=N00048, X  
 1344+ N00046 DC A(@TUXX)  
 1345+ DC AL2(N00048)  
 1346+ DC A(T7A02)  
 1347+ DC AL2(OF)  
 1348+ DC AL2(08)  
 1349+ DC X\*0000008000000080\*  
 1350+ ALIGN WORD  
 1351+ DC AL2(0)  
 1352+ DC C'AA'  
 1353+ ALIGN WORD  
 1354+ DC AL2(PARMARA)  
 1355 N00047 \$FIXT FT=(F00052),GTO=((7A70,E))  
 1356+ N00047 DC A(@FIXT)  
 1357+ DC A(F00052)  
 1358 N00048 \$TUXX T7A02,08,00000000000004,ON,QT=(Q00007),YES=N00058, X  
 1359+ N00048 DC A(@TUXX)  
 1360+ DC AL2(N00058)  
 1361+ DC A(T7A02)  
 1362+ DC AL2(ON)  
 1363+ DC AL2(08)  
 1364+ DC X\*000000000000004\*  
 1365+ ALIGN WORD  
 1366+ DC AL2(0)  
 1367+ DC C'AA'  
 1368+ ALIGN WORD  
 1369+ DC AL2(PARMARA)  
 1370 N00049 \$TUXX T7A02,07,00000000000040,ON,QT=(Q00007),YES=N00051, X  
 1371+ N00049 DC A(@TUXX)  
 1372+ DC AL2(N00051)  
 1373+ DC A(T7A02)  
 1374+ DC AL2(ON)  
 1375+ DC AL2(07)  
 1376+ DC X\*00000000000040\*  
 1377+ ALIGN WORD  
 1378+ DC AL2(0)  
 1379+ DC C'AA'  
 1380+ ALIGN WORD  
 1381+ DC AL2(PARMARA)  
 1382 N00050 \$FIXT FT=(F00084),GTO=((7A72,F))  
 1383+ N00050 DC A(@FIXT)  
 1384+ DC A(F00084)  
 1385 N00051 \$TUXX T7A02,08,000008000000080,OF,QT=(Q00006),YES=N00057, X  
 1386+ N00051 DC A(@TUXX)  
 1387+ DC AL2(N00057)  
 1388+ DC A(T7A02)  
 1389+ DC AL2(OF)  
 1390+ DC AL2(08)  
 1391+ DC X\*000008000000080\*  
 1392+ ALIGN WORD  
 1393+ DC AL2(0)  
 1394+ DC C'AA'  
 1395+ ALIGN WORD  
 1396+ DC AL2(PARMARA)  
 1397 N00052 \$TUXX T7A02,08,000000000000080,ON,QT=(Q00007),YES=N00056, X  
 1398+ N00052 DC A(@TUXX)  
 1399+ DC AL2(N00056)  
 1400+ DC A(T7A02)  
 1401+ DC AL2(ON)  
 1402+ DC AL2(08)  
 1403+ DC X\*000000000000080\*  
 1404+ ALIGN WORD  
 1405+ DC AL2(0)  
 1406+ DC C'AA'  
 1407+ ALIGN WORD  
 1408+ DC AL2(PARMARA)  
 1409 N00053 \$TUXX T7A02,06,00000000000080,OF,QT=(Q00034),YES=N00055  
 1410+ N00053 DC A(@TUXX)  
 1411+ DC AL2(N00055)  
 1412+ DC A(T7A02)  
 1413+ DC AL2(OF)  
 1414+ DC AL2(06)  
 1415+ DC X\*00000000000080\*  
 1416+ ALIGN WORD  
 1417+ DC AL2(0)  
 1418+ DC C'AA'  
 1419+ ALIGN WORD  
 1420+ DC AL2(PARMARA)  
 1421 N00054 \$FIXT FT=(F00084),GTO=((7A72,F))  
 1422+ N00054 DC A(@FIXT)  
 1423+ DC A(F00084)  
 1424 N00055 \$FIXT FT=(F00033),GTO=((7A70,C))  
 1425+ N00055 DC A(@FIXT)  
 1426+ DC A(F00033)  
 1427 N00056 \$FIXT FT=(F00033),GTO=((7A70,C))  
 1428+ N00056 DC A(@FIXT)  
 1429+ DC A(F00033)  
 1430 N00057 \$FIXT FT=(F00084),GTO=((7A72,F))  
 1431+ N00057 DC A(@FIXT)  
 1432+ DC A(F00084)  
 1433 N00058 \$TUXX T7A02,08,000008000000080,OF,QT=(Q00006),YES=N00062, X  
 1434+ N00058 DC A(@TUXX)  
 1435+ DC AL2(N00062)  
 1436+ DC A(T7A02)  
 1437+ DC AL2(OF)  
 1438+ DC AL2(08)  
 1439+ DC X\*000008000000080\*  
 1440+ ALIGN WORD  
 1441+ DC AL2(0)  
 1442+ DC C'AA'  
 1443+ ALIGN WORD  
 1444+ DC AL2(PARMARA)  
 1445 N00059 \$TUXX T7A02,07,00000000000040,ON,QT=(Q00007),YES=N00061, X  
 1446+ N00059 DC A(@TUXX)  
 1447+ DC AL2(N00061)

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002BDE	367E	1448+	DC A(T7A02)	
002BE0	0200	1449+	DC AL2(ON)	
002BE2	0007	1450+	DC AL2(07)	
002BE4	0000000000000040	1451+	DC X'0000000000000040'	
002BE8	00	1452+	ALIGN WORD	
002BEC	0000	1453+	DC AL2(0)	
002BEE	C1C1	1454+	DC C'AA'	
002BF0	196E	1455+	ALIGN WORD	
002BF2	0101	1456+	DC AL2(PARMARA)	
002BF4	341A	1457 N00060	\$FIXT FT=(F00033),GTO=((7A70,C))	
		1458+N00060	DC A(@FIXT)	
		1459+	DC A(F00033)	
002BF6	0101	1460 N00061	\$FIXT FT=(F00045),GTO=((7A70,D))	
002BF8	34A6	1461+N00061	DC A(@FIXT)	
		1462+	DC A(F00045)	
002BFA	0101	1463 N00062	\$FIXT FT=(F00084),GTO=((7A72,F))	
002BFC	347C	1464+N00062	DC A(@FIXT)	
		1465+	DC A(F00084)	
002BFE	0500	1466 N00063	\$TUXX T7A02,07,00004000000040,OF,QT=(Q00006),YES=N00071,	X
002C00	2C6C	1467+N00063	DC A(@TUXX)	
002C02	367E	1468+	DC AL2(N00071)	
002C04	0202	1469+	DC A(T7A02)	
002C06	0007	1470+	DC AL2(OF)	
002C08	0000400000000040	1471+	DC AL2(07)	
002C0F	00	1472+	DC X'0000040000000040'	
002C10	0000	1473+	ALIGN WORD	
002C12	C1C1	1474+	DC AL2(0)	
		1475+	DC C'AA'	
		1476+	ALIGN WORD	
002C14	196E	1477+	DC AL2(PARMARA)	
		1478 N00064	\$TUXX T7A02,08,0000001000000010,OF,QT=(Q00006),YES=N00070,	X
		1479+N00064	DC A(@TUXX)	
002C16	0500	1480+	DC AL2(N00070)	
002C18	2C68	1481+	DC A(T7A02)	
002C1A	367E	1482+	DC AL2(OF)	
002C1C	0202	1483+	DC AL2(08)	
002C1E	0008	1484+	DC X'0000010000000010'	
002C20	0000001000000010	1485+	ALIGN WORD	
002C28	0000	1486+	DC AL2(0)	
002C2A	C1C1	1487+	DC C'AA'	
		1488+	ALIGN WORD	
002C2C	196E	1489+	DC AL2(PARMARA)	
		1490 N00065	\$TUXX T7A02,08,0000008000000080,OF,QT=(Q00006),YES=N00067,	X
		1491+N00065	DC A(@TUXX)	
002C2E	0500	1492+	DC AL2(N00067)	
002C30	2C4A	1493+	DC A(T7A02)	
002C32	367E	1494+	DC AL2(OF)	
002C34	0202	1495+	DC AL2(08)	
002C36	0008	1496+	DC X'0000008000000080'	
002C38	0000008000000080	1497+	ALIGN WORD	
002C40	0000	1498+	DC AL2(0)	
002C42	C1C1	1499+	DC C'AA'	
		1500+	ALIGN WORD	
002C44	196E	1501+	DC AL2(PARMARA)	
		1502 N00066	\$FIXT FT=(F00033),GTO=((7A70,C))	
002C46	0101	1503+N00066	DC A(@FIXT)	
002C48	341A	1504+	DC A(F00033)	
		1505 N00067	\$TUXX T7A02,06,000000000080,OF,QT=(Q00034),YES=N00069	
		1506+N00067	DC A(@TUXX)	
002C4A	0500	1507+	DC AL2(N00069)	
002C4C	2C64	1508+	DC A(T7A02)	
002C4E	367E	1509+	DC AL2(OF)	
002C50	0202	1510+	DC AL2(06)	
002C52	0006	1511+	DC X'00000000000080'	
002C54	000000000080	1512+	ALIGN WORD	
002C5A	0000	1513+	DC AL2(0)	
002C5C	C1C1	1514+	DC C'AA'	
		1515+	ALIGN WORD	
002C5E	196E	1516+	DC AL2(PARMARA)	
		1517 N00068	\$FIXT FT=(F00085),GTO=((7A76,P))	
002C60	0101	1518+N00068	DC A(@FIXT)	
002C62	348A	1519+	DC A(F00085)	
		1520 N00069	\$FIXT FT=(F00033),GTO=((7A70,C))	
002C64	0101	1521+N00069	DC A(@FIXT)	
002C66	341A	1522+	DC A(F00033)	
		1523 N00070	\$FIXT FT=(F00052),GTO=((7A70,E))	
002C68	0101	1524+N00070	DC A(@FIXT)	
002C6A	3498	1525+	DC A(F00052)	
		1526 N00071	\$FIXT FT=(F00085),GTO=((7A76,R))	
002C6C	0101	1527+N00071	DC A(@FIXT)	
002C6E	348A	1528+	DC A(F00085)	
		1529 N00072	\$FIXT FT=(F00086),GTO=((7A76,Q))	
002C70	0101	1530+N00072	DC A(@FIXT)	
002C72	34B4	1531+	DC A(F00086)	
		1532 N00073	\$FIXT FT=(F00087),GTO=((7A72,V))	
002C74	0101	1533+N00073	DC A(@FIXT)	
002C76	34C2	1534+	DC A(F00087)	
		1535 N00074	\$TUXX T7A02,07,0000000000020,ON,QT=(Q00007),YES=N00096,	X
		1536+N00074	DC A(@TUXX)	
002C78	0500	1537+	DC AL2(N00096)	
002C7A	2B2E	1538+	DC A(T7A02)	
002C7C	367E	1539+	DC AL2(ON)	
002C7E	0200	1540+	DC AL2(07)	
002C80	0007	1541+	DC X'00000000000020'	
002C82	000000000000020	1542+	ALIGN WORD	
002C89	00	1543+	DC AL2(0)	
002C8A	0000	1544+	DC C'AA'	
002C8C	C1C1	1545+	ALIGN WORD	
		1546+	DC AL2(PARMARA)	
002C8E	196E	1547 N00075	\$TUXX T7A02,07,00004000000040,OF,QT=(Q00006),YES=N00089,	X
		1548+N00075	DC A(@TUXX)	
002C90	0500	1549+	DC AL2(N00089)	
002C92	2D54	1550+	DC A(T7A02)	
002C94	367E	1551+	DC AL2(OF)	
002C96	0202	1552+	DC AL2(07)	
002C98	0007	1553+	DC X'0000040000000040'	
002C9A	0000400000000040	1554+	ALIGN WORD	
002CA1	00	1555+	DC AL2(0)	
002CA2	0000	1556+	DC C'AA'	
002CA4	C1C1	1557+	ALIGN WORD	
		1558+	DC AL2(PARMARA)	
002CA6	196E	1559 N00076	\$TUXX T7A02,08,00000000000040,ON,QT=(Q00007),YES=N00088,	X
		1560+N00076	DC A(@TUXX)	
002CA8	0500	1561+	DC AL2(N00088)	
002CAA	2D50			

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002CAC	367E	1562+	DC A(T7A02)	
002CAE	0200	1563+	DC AL2(ON)	
002CB0	0007	1564+	DC AL2(07)	
002CB2	0000000000000040	1565+	DC X'0000000000000040'	
002CB8	00	1566+	ALIGN WORD	
002CBA	0000	1567+	DC AL2(0)	
002CBC	C1C1	1568+	DC C'AA'	
		1569+	ALIGN WORD	
002CCE	196E	1570+	DC AL2(PARMARA)	
		1571 N00077	\$TUXX T7A02,08,0000000000000040,ON,QT=(Q00007),YES=N00087,	X
		1572+N00077	DC A(@TUXX)	
002CC0	0500	1573+	DC AL2(N00087)	
002CC2	2D4C	1574+	DC A(T7A02)	
002CC4	367E	1575+	DC AL2(ON)	
002CC6	0200	1576+	DC AL2(08)	
002CC8	0008	1577+	DC X'00000000000000040'	
002CCA	0000000000000004	1578+	ALIGN WORD	
		1579+	DC AL2(0)	
002CD2	0000	1580+	DC C'AA'	
002CD4	C1C1	1581+	ALIGN WORD	
		1582+	DC AL2(PARMARA)	
002CD6	196E	1583 N00078	\$TUXX T7A02,08,0000000400000004,OF,QT=(Q00006),YES=N00084,	X
		1584+N00078	DC A(@TUXX)	
002CD8	0500	1585+	DC AL2(N00084)	
002CDA	2D2C	1586+	DC A(T7A02)	
002CDB	367E	1587+	DC AL2(OF)	
002CDE	0202	1588+	DC AL2(08)	
002CE0	0008	1589+	DC X'00000004000000040'	
002CE2	0000000400000004	1590+	ALIGN WORD	
		1591+	DC AL2(0)	
002CEA	0000	1592+	DC C'AA'	
002CEC	C1C1	1593+	ALIGN WORD	
		1594+	DC AL2(PARMARA)	
002CEE	196E	1595 N00079	\$TUXX T7A02,07,00008000000080,OF,QT=(Q00006),YES=N00083,	X
		1596+N00079	DC A(@TUXX)	
002CF0	0500	1597+	DC AL2(N00083)	
002CF2	2D28	1598+	DC A(T7A02)	
002CF4	367E	1599+	DC AL2(OF)	
002CF6	0202	1600+	DC AL2(07)	
002CFA	0000800000000080	1601+	DC X'0000800000000080'	
002D01	00	1602+	ALIGN WORD	
002D02	0000	1603+	DC AL2(0)	
002D04	C1C1	1604+	DC C'AA'	
		1605+	ALIGN WORD	
002D06	196E	1606+	DC AL2(PARMARA)	
		1607 N00080	\$TUXX T7A02,08,0000004000000040,OF,QT=(Q00006),YES=N00082,	X
		1608+N00080	DC A(@TUXX)	
002D08	0500	1609+	DC AL2(N00082)	
002DOA	2D24	1610+	DC A(T7A02)	
002D0C	367E	1611+	DC AL2(OF)	
002D0E	0202	1612+	DC AL2(08)	
002D10	0008	1613+	DC X'00000040000000040'	
002D12	0000004000000004	1614+	ALIGN WORD	
		1615+	DC AL2(0)	
002D1A	0000	1616+	DC C'AA'	
002D1C	C1C1	1617+	ALIGN WORD	
		1618+	DC AL2(PARMARA)	
002D1E	196E	1619 N00081	\$FIXT FT=(F00047),GTO=((7A70,B))	
		1620+N00081	DC A(@FIXT)	
002D20	0101	1621+	DC A(F00047)	
002D22	3436	1622 N00082	\$FIXT FT=(F00085),GTO=((7A76,R))	
		1623+N00082	DC A(@FIXT)	
002D24	0101	1624+	DC A(F00085)	
002D26	348A	1625 N00083	\$FIXT FT=(F00085),GTO=((7A76,R))	
		1626+N00083	DC A(@FIXT)	
002D28	0101	1627+	DC A(F00085)	
002D2A	348A	1628 N00084	\$TUXX T7A02,07,0000800000008,OF,QT=(Q00006),YES=N00086,	X
		1629+N00084	DC A(@TUXX)	
002D2C	0500	1630+	DC AL2(N00086)	
002D2E	2D48	1631+	DC A(T7A02)	
002D30	367E	1632+	DC AL2(OF)	
002D32	0202	1633+	DC AL2(07)	
002D34	0007	1634+	DC X'000008000000008'	
002D36	000080000000008	1635+	ALIGN WORD	
002D38	00	1636+	DC AL2(0)	
002D3E	0000	1637+	DC C'AA'	
002D40	C1C1	1638+	ALIGN WORD	
		1639+	DC AL2(PARMARA)	
002D42	196E	1640 N00085	\$FIXT FT=(F00033),GTO=((7A70,C))	
		1641+N00085	DC A(@FIXT)	
002D44	0101	1642+	DC A(F00033)	
002D46	341A	1643 N00086	\$FIXT FT=(F00052),GTO=((7A70,E))	
		1644+N00086	DC A(@FIXT)	
002D48	0101	1645+	DC A(F00052)	
002D4A	3498	1646 N00087	\$FIXT FT=(F00088),GTO=((7A72,I))	
		1647+N00087	DC A(@FIXT)	
002D4C	0101	1648+	DC A(F00088)	
002D4E	34D0	1649 N00088	\$FIXT FT=(F00089),GTO=((7A72,C))	
		1650+N00088	DC A(@FIXT)	
002D50	0101	1651+	DC A(F00089)	
002D52	34DE	1652 N00089	\$TUXX T7A02,14,000000000000000000000000100,OF,QT=(Q00042),	X
		1653+N00089	DC A(@TUXX)	
002D54	0500	1654+	DC AL2(N00091)	
002D56	2D76	1655+	DC A(T7A02)	
002D58	367E	1656+	DC AL2(OF)	
002D5A	0202	1657+	DC AL2(14)	
002D5C	000E	1658+	DC X'00000000000000000000000000100'	
002D5E	000000000000000000	1659+	ALIGN WORD	
		1660+	DC AL2(0)	
002D6C	0000	1661+	DC C'AA'	
002D6E	C1C1	1662+	ALIGN WORD	
		1663+	DC AL2(PARMARA)	
002D70	196E	1664 N00090	\$FIXT FT=(F00090),GTO=((7A76,F))	
		1665+N00090	DC A(@FIXT)	
002D72	0101	1666+	DC A(F00090)	
002D74	34EC	1667 N00091	\$TUXX T7A02,08,0000000000000004,ON,QT=(Q00007),YES=N00093,	X
		1668+N00091	DC A(@TUXX)	
002D76	0500	1669+	DC AL2(N00093)	
002D78	2D92	1670+	DC A(T7A02)	
002D7A	367E	1671+	DC AL2(ON)	
002D7C	0200	1672+	DC AL2(08)	
002D7E	0008	1673+	DC X'00000000000000040'	
002D80	0000000000000004	1674+	ALIGN WORD	
		1675+	DC AL2(0)	

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002D8A C1C1 1676+ DC C'AA'  
 1677+ ALIGN WORD  
 002D8C 196E 1678+ DC AL2(PARMARA)  
 1679+ N00092 \$FIXT FT=(F00088),GTO=((7A72,I))  
 002D8E 0101 1680+ DC A(@FIXT)  
 002D90 34D0 1681+ DC A(F00088)  
 1682+ N00093 \$TUXX T7A02,08,000000000000080,ON,QT=(Q00007),YES=N00095, X  
 002D92 0500 1683+ DC A(@TUXX)  
 002D94 2DAE 1684+ DC AL2(N00095)  
 002D96 367E 1685+ DC A(T7A02)  
 002D98 0200 1686+ DC AL2(ON)  
 002D9A 0008 1687+ DC AL2(OB)  
 002D9C 0000000000000080 1688+ DC X'0000000000000080'  
 1689+ ALIGN WORD  
 002DA4 0000 1690+ DC AL2(O)  
 002DA6 C1C1 1691+ DC C'AA'  
 1692+ ALIGN WORD  
 002DA8 196E 1693+ DC AL2(PARMARA)  
 1694+ N00094 \$FIXT FT=(F00089),GTO=((7A72,C))  
 002DAA 0101 1695+ DC A(@FIXT)  
 002DAC 34DE 1696+ DC A(F00089)  
 1697+ N00095 \$FIXT FT=(F00088),GTO=((7A72,I))  
 002DAE 0101 1698+ DC A(@FIXT)  
 002DB0 34D0 1699+ DC A(F00088)  
 1700+ N00096 \$TUXX T7A02,02,0080,OF,QT=(Q00006),YES=N00114,CT=(C00027)  
 002DB2 0500 1701+ DC A(@TUXX)  
 002DB4 2E9A 1702+ DC AL2(N00114)  
 002DB6 367E 1703+ DC A(T7A02)  
 002DB8 0202 1704+ DC AL2(OF)  
 002DBA 0002 1705+ DC AL2(OB)  
 002DBC 0080 1706+ DC X'0080'  
 1707+ ALIGN WORD  
 002DBE 0000 1708+ DC AL2(O)  
 002DC0 C1C1 1709+ DC C'AA'  
 1710+ ALIGN WORD  
 002DC2 196E 1711+ DC AL2(PARMARA)  
 1712+ N00097 \$TUXX T7A02,02,0008,OF,QT=(Q00006),YES=N00105,CT=(C00026)  
 002DC4 0500 1713+ DC A(@TUXX)  
 002DC6 2E9A 1714+ DC AL2(N00105)  
 002DC8 367E 1715+ DC A(T7A02)  
 002DCA 0202 1716+ DC AL2(OF)  
 002DCC 0002 1717+ DC AL2(OB)  
 002DCE 0008 1718+ DC X'0008'  
 1719+ ALIGN WORD  
 002DD0 0000 1720+ DC AL2(O)  
 002DD2 C1C1 1721+ DC C'AA'  
 1722+ ALIGN WORD  
 002DD4 196E 1723+ DC AL2(PARMARA)  
 1724+ N00098 \$TUXX T7A02,09,00000000400000040,OF,QT=(Q00006),YES=N00102, X  
 002DD6 0500 1725+ DC A(@TUXX)  
 002DD8 2E9A 1726+ DC AL2(N00102)  
 002DDA 367E 1727+ DC A(T7A02)  
 002DDC 0202 1728+ DC AL2(OF)  
 002DDE 0009 1729+ DC AL2(OB)  
 002DE0 0000000040000004 1730+ DC X'00000000400000040'  
 002DE2 00 1731+ ALIGN WORD  
 002DE4 0000 1732+ DC AL2(O)  
 002DEC C1C1 1733+ DC C'AA'  
 1734+ ALIGN WORD  
 002DEE 196E 1735+ DC AL2(PARMARA)  
 1736+ N00099 \$TUXX T7A02,09,00000000400000040,OF,QT=(Q00006),YES=N00101, X  
 002DF0 0500 1737+ DC A(@TUXX)  
 002DF2 2E9A 1738+ DC AL2(N00101)  
 002DF4 367E 1739+ DC A(T7A02)  
 002DF6 0202 1740+ DC AL2(OF)  
 002DF8 0009 1741+ DC AL2(OB)  
 002DFA 0000000040000000 1742+ DC X'000000004000000040'  
 002E03 00 1743+ ALIGN WORD  
 002E04 0000 1744+ DC AL2(O)  
 002E06 C1C1 1745+ DC C'AA'  
 1746+ ALIGN WORD  
 002E08 196E 1747+ DC AL2(PARMARA)  
 1748+ N00100 \$FIXT FT=(F00091),GTO=((7A72,M))  
 002E0A 0101 1749+ DC A(@FIXT)  
 002E0C 34FA 1750+ DC A(F00091)  
 1751+ N00101 \$FIXT FT=(F00047),GTO=((7A70,B))  
 002E0E 0101 1752+ DC A(@FIXT)  
 002E10 3436 1753+ DC A(F00047)  
 1754+ N00102 \$TUXX T7A02,02,0001,OF,QT=(Q00006),YES=N00104,CT=(C00073)  
 002E12 0500 1755+ DC A(@TUXX)  
 002E14 2E28 1756+ DC AL2(N00104)  
 002E16 367E 1757+ DC A(T7A02)  
 002E18 0202 1758+ DC AL2(OF)  
 002E1A 0002 1759+ DC AL2(OB)  
 002E1C 0001 1760+ DC X'0001'  
 1761+ ALIGN WORD  
 002E1E 0000 1762+ DC AL2(O)  
 002E20 C1C1 1763+ DC C'AA'  
 1764+ ALIGN WORD  
 002E22 196E 1765+ DC AL2(PARMARA)  
 1766+ N00103 \$FIXT FT=(F00044),GTO=((7A70,A))  
 002E24 0101 1767+ DC A(@FIXT)  
 002E26 3508 1768+ DC A(F00044)  
 1769+ N00104 \$FIXT FT=(F00096),GTO=((7A72,B))  
 002E28 0101 1770+ DC A(@FIXT)  
 002E2A 3516 1771+ DC A(F00096)  
 1772+ N00105 \$TUXX T7A02,07,00004000000040,OF,QT=(Q00006),YES=N00109, X  
 002E2C 0500 1773+ DC A(@TUXX)  
 002E2E 2E5E 1774+ DC AL2(N00109)  
 002E30 367E 1775+ DC A(T7A02)  
 002E32 0202 1776+ DC AL2(OF)  
 002E34 0007 1777+ DC AL2(OB)  
 002E36 00004000000040 1778+ DC X'00004000000040'  
 002E3D 00 1779+ ALIGN WORD  
 002E3E 0000 1780+ DC AL2(O)  
 002E40 C1C1 1781+ DC C'AA'  
 1782+ ALIGN WORD  
 002E42 196E 1783+ DC AL2(PARMARA)  
 1784+ N00106 \$TUXX T7A02,02,0001,OF,QT=(Q00006),YES=N00108,CT=(C00073)  
 002E44 0500 1785+ DC A(@TUXX)  
 002E46 2E5A 1786+ DC AL2(N00108)  
 002E48 367E 1787+ DC A(T7A02)  
 002E4A 0202 1788+ DC AL2(OF)  
 002E4C 0002 1789+ DC AL2(OB)

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002E4E 0001 1790+ DC X'0001'  
 1791+ ALIGN WORD  
 002E50 0000 1792+ DC AL2(O)  
 002E52 C1C1 1793+ DC C'AA'  
 1794+ ALIGN WORD  
 002E54 196E 1795+ DC AL2(PARMARA)  
 1796+ N00107 \$FIXT FT=(F00080),GTO=((7A72,U))  
 002E56 0101 1797+ DC A(@FIXT)  
 002E58 3428 1798+ DC A(F00080)  
 1799+ N00108 \$FIXT FT=(F00103),GTO=((7A76,G))  
 002E5A 0101 1800+ DC A(@FIXT)  
 002E5C 3524 1801+ DC A(F00103)  
 1802+ N00109 \$TUXX T7A02,08,000000200000020,OF,QT=(Q00006),YES=N00111, X  
 002E5E 0500 1803+ DC A(@TUXX)  
 002E60 2E7A 1804+ DC AL2(N00111)  
 002E62 367E 1805+ DC A(T7A02)  
 002E64 0202 1806+ DC AL2(OF)  
 002E66 0008 1807+ DC AL2(OB)  
 002E68 0000002000000020 1808+ DC X'0000002000000020'  
 1809+ ALIGN WORD  
 002E70 0000 1810+ DC AL2(O)  
 002E72 C1C1 1811+ DC C'AA'  
 1812+ ALIGN WORD  
 002E74 196E 1813+ DC AL2(PARMARA)  
 1814+ N00110 \$FIXT FT=(F00084),GTO=((7A72,F))  
 002E76 0101 1815+ DC A(@FIXT)  
 002E78 347C 1816+ DC A(F00084)  
 1817+ N00111 \$TUXX T7A02,07,00008000000080,OF,QT=(Q00006),YES=N00113, X  
 002E7A 0500 1818+ DC A(@TUXX)  
 002E7C 2E96 1819+ DC AL2(N00113)  
 002E7E 367E 1820+ DC A(T7A02)  
 002E80 0202 1821+ DC AL2(OF)  
 002E82 0007 1822+ DC AL2(OB)  
 002E84 00008000000080 1823+ DC X'00008000000080'  
 002E86 00 1824+ ALIGN WORD  
 002E88 0000 1825+ DC AL2(O)  
 002E8E C1C1 1826+ DC C'AA'  
 1827+ ALIGN WORD  
 002E90 196E 1828+ DC AL2(PARMARA)  
 1829+ N00112 \$FIXT FT=(F00047),GTO=((7A70,B))  
 002E92 0101 1830+ DC A(@FIXT)  
 002E94 3436 1831+ DC A(F00047)  
 1832+ N00113 \$FIXT FT=(F00033),GTO=((7A70,C))  
 002E96 0101 1833+ DC A(@FIXT)  
 002E98 341A 1834+ DC A(F00033)  
 1835+ N00114 \$TUXX T7A02,02,0040,OF,QT=(Q00006),YES=N00116,CT=(C00064)  
 002E9A 0500 1836+ DC A(@TUXX)  
 002E9C 2E80 1837+ DC AL2(N00116)  
 002E9E 367E 1838+ DC A(T7A02)  
 002EA0 0202 1839+ DC AL2(OF)  
 002EA2 0002 1840+ DC AL2(OB)  
 002EA4 0040 1841+ DC X'0040'  
 1842+ ALIGN WORD  
 002EA6 0000 1843+ DC AL2(O)  
 002EA8 C1C1 1844+ DC C'AA'  
 1845+ ALIGN WORD  
 002EAA 196E 1846+ DC AL2(PARMARA)  
 1847+ N00115 \$FIXT FT=(F00031),GTO=((7A70,J))  
 002EAC 0101 1848+ DC A(@FIXT)  
 002EAE 3444 1849+ DC A(F00031)  
 1850+ N00116 \$FIXT FT=(F00098),GTO=((7A76,L))  
 002EB0 0101 1851+ DC A(@FIXT)  
 002EB2 3532 1852+ DC A(F00098)  
 1853+ N00117 \$FIXT FT=(F00099),GTO=((7A77,A))  
 002EB4 0101 1854+ DC A(@FIXT)  
 002EB6 3540 1855+ DC A(F00099)  
 1856+ N00118 \$TUXX T7A02,01,C4,EQ,QT=(Q00506),YES=N00216,CT=(C00505)  
 002EB8 0500 1857+ DC A(@TUXX)  
 002EBA 33D2 1858+ DC AL2(N00216)  
 002EBC 367E 1859+ DC A(T7A02)  
 002EBE 0000 1860+ DC AL2(EQ)  
 002EC0 0001 1861+ DC AL2(O)  
 002EC2 C4 1862+ DC X'C4'  
 002EC3 00 1863+ ALIGN WORD  
 002EC4 0000 1864+ DC AL2(O)  
 002EC6 C1C1 1865+ DC C'AA'  
 1866+ ALIGN WORD  
 002EC8 196E 1867+ DC AL2(PARMARA)  
 1868+ N00119 \$TUXX T7A02,02,0001,OF,QT=(Q00006),YES=N00121,CT=(C00073)  
 002ECA 0500 1869+ DC A(@TUXX)  
 002ECC 2E88 1870+ DC AL2(N00121)  
 002ECE 367E 1871+ DC A(T7A02)  
 002ED0 0202 1872+ DC AL2(OF)  
 002ED2 0002 1873+ DC AL2(OB)  
 002ED4 0001 1874+ DC X'0001'  
 1875+ ALIGN WORD  
 002ED6 0000 1876+ DC AL2(O)  
 002ED8 C1C1 1877+ DC C'AA'  
 1878+ ALIGN WORD  
 002EDA 196E 1879+ DC AL2(PARMARA)  
 1880+ N00120 \$CALL TYPE=XTRNL,MAP=7A22,EP=C,FT=(F00100),GTO=((7A22,C))  
 002EDC 0201 1881+ DC A(@CALL)  
 002EDE 354E 1882+ DC A(F00100)  
 002EDF F7C1F2F2 1883+ DC CL4'7A22'  
 002EE0 C340 1884+ DC CL2'C'  
 002EE2 0001 1885+ DC AL2(XTRNL)  
 002EE4 0500 1886+ \$TUXX T7A02,01,C1,EQ,QT=(Q00066),YES=N00185,CT=(C00065)  
 002EE6 323C 1887+ DC A(@TUXX)  
 002EE8 367E 1888+ DC AL2(N00185)  
 002EEA 0000 1889+ DC A(T7A02)  
 002EEC 0000 1890+ DC AL2(EQ)  
 002EEE 0001 1891+ DC AL2(O)  
 002EF0 C1 1892+ DC X'C1'  
 002EF2 00 1893+ ALIGN WORD  
 002EF4 0000 1894+ DC AL2(O)  
 002EF6 C1C1 1895+ DC C'AA'  
 1896+ ALIGN WORD  
 002EF8 196E 1897+ DC AL2(PARMARA)  
 1898+ N00122 \$TUXX T7A02,01,E6,EQ,QT=(Q00072),YES=N00152,CT=(C00071)  
 002EFA 0500 1899+ DC A(@TUXX)  
 002EFC 307E 1900+ DC AL2(N00152)  
 002EFE 367E 1901+ DC A(T7A02)  
 002F00 0000 1902+ DC AL2(OB)  
 002F02 0001 1903+ DC AL2(O)



LOC TR	OBJECT TEXT	STMT	SOURCE STATEMENT
002F04	E6	1904+	DC X'E6'
002F05	00	1905+	ALIGN WORD
002F06	0000	1906+	DC AL2(0)
002F08	C1C1	1907+	DC C'AA'
002F0A	196E	1908+	ALIGN WORD
002F0C	0500	1910+ N00123	STUXX T7A02,01,C6,EQ,QT=(Q00070),YES=N00137,CT=(C00068)
002F0E	2F8R	1911+ N00123	DC A(@TUXX)
002F10	367E	1912+	DC AL2(N00137)
002F12	0000	1913+	DC A(T7A02)
002F14	0001	1914+	DC AL2(E0)
002F16	C6	1915+	DC AL2(01)
002F17	00	1916+	DC X'C6'
002F18	0000	1917+	ALIGN WORD
002F1A	C1C1	1918+	DC AL2(0)
002F1C	196E	1919+	DC C'AA'
002F1E	0500	1920+	ALIGN WORD
002F20	2FB4	1921+	DC AL2(PARMARA)
002F22	367E	1922+ N00124	STUXX T7A02,01,E2,EQ,QT=(Q00523),YES=N00136,CT=(C00524)
002F24	0000	1923+ N00124	DC A(@TUXX)
002F26	0001	1924+	DC AL2(N00136)
002F28	E2	1925+	DC A(T7A02)
002F29	00	1926+	DC AL2(E0)
002F2A	0000	1927+	DC AL2(01)
002F2C	C1C1	1928+	DC X'E2'
002F2E	196E	1929+	ALIGN WORD
002F30	0500	1930+	DC AL2(0)
002F32	2F80	1931+	DC C'AA'
002F34	367E	1932+	ALIGN WORD
002F36	0202	1933+	DC AL2(PARMARA)
002F38	0007	1934+ N00125	STUXX T7A02,07,00004000000040,OF,QT=(Q00006),YES=N00135,
002F3A	00004000000040	1935+ N00125	DC A(@TUXX)
002F41	00	1936+	DC AL2(N00135)
002F42	0000	1937+	DC A(T7A02)
002F44	C1C1	1938+	DC AL2(OF)
002F46	196E	1939+	DC AL2(07)
002F48	0500	1940+	DC X'00004000000040'
002F4A	2F5E	1941+	ALIGN WORD
002F4C	367E	1942+	DC AL2(0)
002F4E	0202	1943+	DC C'AA'
002F50	0002	1944+	ALIGN WORD
002F52	0002	1945+	DC AL2(PARMARA)
002F54	0000	1946+ N00126	STUXX T7A02,02,0002,OF,QT=(Q00006),YES=N00128,CT=(C00032)
002F56	C1C1	1947+ N00126	DC A(@TUXX)
002F58	196E	1948+	DC AL2(N00128)
002F5A	0101	1949+	DC A(T7A02)
002F5C	3436	1950+	DC AL2(OF)
002F5E	0500	1951+	DC AL2(02)
002F60	2F96	1952+	DC X'0002'
002F62	367E	1953+	ALIGN WORD
002F64	0200	1954+	DC AL2(0)
002F66	0007	1955+	DC C'AA'
002F68	0000000000020	1956+	ALIGN WORD
002F6F	00	1957+	DC AL2(PARMARA)
002F70	0000	1958+ N00127	STUXX T7A02,07,00004000000040,OF,QT=(Q00006),YES=N00135,
002F72	C1C1	1959+ N00127	DC A(@TUXX)
002F74	196E	1960+	DC AL2(N00135)
002F76	0500	1961+ N00128	STUXX T7A02,07,00000000000020,ON,QT=(Q00007),YES=N00132,
002F78	2F92	1962+ N00128	DC A(@TUXX)
002F7A	367E	1963+	DC AL2(N00132)
002F7C	0202	1964+	DC A(T7A02)
002F7E	0008	1965+	DC AL2(ON)
002F80	0000008000000080	1966+	DC AL2(07)
002F88	0000	1967+	DC X'000000000000020'
002F8A	C1C1	1968+	ALIGN WORD
002F8C	196E	1969+	DC AL2(0)
002F8E	0101	1970+	DC C'AA'
002F90	341A	1971+	ALIGN WORD
002F92	0101	1972+	DC AL2(PARMARA)
002F94	34A6	1973+ N00129	STUXX T7A02,08,0000008000000080,OF,QT=(Q00006),YES=N00131,
002F96	0500	1974+ N00129	DC A(@TUXX)
002F98	2FAC	1975+	DC AL2(N00131)
002F9A	367E	1976+	DC A(T7A02)
002F9C	0000	1977+	DC AL2(OF)
002F9E	0001	1978+	DC AL2(08)
002FA0	D6	1979+	DC X'0000008000000080'
002FA1	00	1980+	ALIGN WORD
002FA2	0000	1981+	DC AL2(0)
002FA4	C1C1	1982+	DC C'AA'
002FA6	196E	1983+	ALIGN WORD
002FA8	0101	1984+	DC AL2(PARMARA)
002FAA	3524	1985+ N00130	STUXX T7A02,01,D6,EQ,QT=(Q00051),YES=N00134,CT=(C00050)
002FAC	0101	1986+ N00130	DC A(@TUXX)
002FAE	355C	1987+	DC AL2(N00134)
002FB0	0101	1988+ N00131	STUXX T7A02,01,D6,EQ,QT=(Q00051),YES=N00134,CT=(C00050)
002FB2	356A	1989+ N00131	DC A(@TUXX)
002FB4	0101	1990+	DC AL2(N00134)
002FB6	3578	1991+ N00132	STUXX T7A02,01,D6,EQ,QT=(Q00051),YES=N00134,CT=(C00050)
002FB8	0500	1992+ N00132	DC A(@TUXX)
002FBA	3040	1993+	DC AL2(N00134)
		1994+	DC A(T7A02)
		1995+	DC AL2(EQ)
		1996+	DC AL2(01)
		1997+	DC X'D6'
		1998+	ALIGN WORD
		1999+	DC AL2(0)
		2000+	DC C'AA'
		2001+	ALIGN WORD
		2002+	DC AL2(PARMARA)
		2003+ N00133	STUXX T7A02,01,D6,EQ,QT=(Q00051),YES=N00134,CT=(C00050)
		2004+ N00133	DC A(@TUXX)
		2005+	DC AL2(N00134)
		2006+ N00134	STUXX T7A02,01,D6,EQ,QT=(Q00051),YES=N00134,CT=(C00050)
		2007+ N00134	DC A(@TUXX)
		2008+	DC AL2(N00134)
		2009+ N00135	STUXX T7A02,02,0008,OF,QT=(Q00006),YES=N00174,CT=(C00026)
		2010+ N00135	DC A(@TUXX)
		2011+	DC AL2(N00134)
		2012+ N00136	STUXX T7A02,02,0008,OF,QT=(Q00006),YES=N00174,CT=(C00026)
		2013+ N00136	DC A(@TUXX)
		2014+	DC AL2(N00134)
		2015+ N00137	STUXX T7A02,14,00000000000000000000100,OF,QT=(Q00042),
		2016+ N00137	DC A(@TUXX)
		2017+	DC AL2(N00147)

LOC TR	OBJECT TEXT	STMT	SOURCE STATEMENT
002FBC	367E	2018+	DC A(T7A02)
002FBE	0202	2019+	DC AL2(OF)
002FC0	000E	2020+	DC AL2(14)
002FC2	0000000000000000	2021+	DC X'000000000000000000000000100'
002FD0	0000	2022+	ALIGN WORD
002FD2	C1C1	2023+	DC AL2(0)
002FD4	196E	2024+	DC C'AA'
002FD6	0500	2025+	ALIGN WORD
002FD8	3010	2026+	DC AL2(PARMARA)
002FDA	367E	2027+ N00138	STUXX T7A02,09,000000008000000080,OF,QT=(Q00006),YES=N00142,
002FDE	0202	2028+ N00138	DC A(@TUXX)
002FDF	0009	2029+	DC AL2(N00142)
002FE0	0000000800000008	2030+	DC A(T7A02)
002FE1	00	2031+	DC AL2(OF)
002FE2	0000	2032+	DC AL2(09)
002FE3	00	2033+	DC X'00000008000000080'
002FE4	0000	2034+	ALIGN WORD
002FE5	0000	2035+	DC AL2(0)
002FE6	C1C1	2036+	DC C'AA'
002FE8	196E	2037+	ALIGN WORD
002FEA	0500	2038+	DC AL2(PARMARA)
002FEF	0500	2039+ N00139	STUXX T7A02,07,00004000000040,OF,QT=(Q00006),YES=N00141,
002FF0	300C	2040+ N00139	DC A(@TUXX)
002FF2	367E	2041+	DC AL2(N00141)
002FF4	0202	2042+	DC A(T7A02)
002FF6	0007	2043+	DC AL2(OF)
002FF8	00004000000040	2044+	DC AL2(07)
002FFA	00	2045+	DC X'00004000000040'
003001	00	2046+	ALIGN WORD
003002	0000	2047+	DC AL2(0)
003004	C1C1	2048+	DC C'AA'
003006	196E	2049+	ALIGN WORD
003008	0101	2050+	DC AL2(PARMARA)
00300A	3586	2051+ N00140	STUXX T7A02,07,00004000000040,OF,QT=(Q00006),YES=N00141,
00300C	0101	2052+ N00140	DC A(@TUXX)
00300E	355C	2053+	DC AL2(N00141)
003010	0500	2054+ N00141	STUXX T7A02,07,00004000000040,OF,QT=(Q00006),YES=N00141,
003012	303C	2055+ N00141	DC A(@TUXX)
003014	367E	2056+	DC AL2(N00141)
003016	0202	2057+ N00142	STUXX T7A02,02,0010,OF,QT=(Q00006),YES=N00146,CT=(C00024)
003018	0002	2058+ N00142	DC A(@TUXX)
00301A	0010	2059+	DC AL2(N00146)
00301C	0000	2060+	DC A(T7A02)
00301E	C1C1	2061+	DC AL2(OF)
003020	196E	2062+	DC AL2(02)
003022	0500	2063+	DC X'0010'
003024	3038	2064+	ALIGN WORD
003026	367E	2065+	DC AL2(0)
003028	0202	2066+	DC C'AA'
00302A	0002	2067+	ALIGN WORD
00302C	0002	2068+	DC AL2(PARMARA)
00302E	0000	2069+ N00143	STUXX T7A02,02,0002,OF,QT=(Q00006),YES=N00145,CT=(C00032)
003030	C1C1	2070+ N00143	DC A(@TUXX)
003032	196E	2071+	DC AL2(N00145)
003034	0101	2072+	DC A(T7A02)
003036	355C	2073+	DC AL2(OF)
003038	0101	2074+	DC AL2(02)
00303A	3436	2075+	DC X'0002'
00303C	0101	2076+	ALIGN WORD
00303E	3436	2077+	DC AL2(0)
003040	0500	2078+	DC C'AA'
003042	305C	2079+	ALIGN WORD
003044	367E	2080+	DC AL2(PARMARA)
003046	0202	2081+ N00144	STUXX T7A02,02,0002,OF,QT=(Q00006),YES=N00145,CT=(C00032)
003048	0008	2082+ N00144	DC A(@TUXX)
00304A	0000008000000080	2083+	DC AL2(N00145)
003052	0000	2084+ N00145	STUXX T7A02,02,0002,OF,QT=(Q00006),YES=N00145,CT=(C00032)
003054	C1C1	2085+ N00145	DC A(@TUXX)
003056	196E	2086+ N00145	DC AL2(N00145)
003058	0101	2087+ N00146	STUXX T7A02,08,0000008000000080,OF,QT=(Q00006),YES=N00149,
00305A	3444	2088+ N00146	DC A(@TUXX)
00306C	196E	2089+	DC AL2(N00149)
00306E	0101	2090+ N00147	STUXX T7A02,08,0000008000000080,OF,QT=(Q00006),YES=N00149,
003070	3436	2091+ N00147	DC A(@TUXX)
003072	0101	2092+	DC AL2(N00149)
003074	3594	2093+	DC A(T7A02)
003076	0500	2094+	DC AL2(OF)
003078	31B0	2095+	DC AL2(08)
00307A	367E	2096+	DC X'0000008000000080'
00307C	0202	2097+	ALIGN WORD
00307E	0002	2098+	DC AL2(0)
003080	0008	2099+	DC C'AA'
003082	0000	2100+	ALIGN WORD
		2101+	DC AL2(PARMARA)
		2102+ N00148	STUXX T7A02,02,0010,OF,QT=(Q00006),YES=N00151,CT=(C00024)
		2103+ N00148	DC A(@TUXX)
		2104+	DC AL2(N00151)
		2105+ N00149	STUXX T7A02,02,0010,OF,QT=(Q00006),YES=N00151,CT=(C00024)
		2106+ N00149	DC A(@TUXX)
		2107+	DC AL2(N00151)
		2108+	DC A(T7A02)
		2109+	DC AL2(OF)
		2110+	DC AL2(02)
		2111+	DC X'0010'
		2112+	ALIGN WORD
		2113+	DC AL2(0)
		2114+	DC C'AA'
		2115+	ALIGN WORD
		2116+	DC AL2(PARMARA)
		2117+ N00150	STUXX T7A02,02,0010,OF,QT=(Q00006),YES=N00151,CT=(C00024)
		2118+ N00150	DC A(@TUXX)
		2119+	DC AL2(N00151)
		2120+ N00151	STUXX T7A02,02,0010,OF,QT=(Q00006),YES=N00151,CT=(C00024)
		2121+ N00151	DC A(@TUXX)
		2122+	DC AL2(N00151)
		2123+ N00152	STUXX T7A02,02,0008,OF,QT=(Q00006),YES=N00174,CT=(C00026)
		2124+ N00152	DC A(@TUXX)
		2125+	DC AL2(N00174)
		2126+	DC A(T7A02)
		2127+	DC AL2(OF)
		2128+	DC AL2(02)
		2129+	DC X'0008'
		2130+	ALIGN WORD
		2131+	DC AL2(0)

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	P/N=8327656 EC=375222	PAGE 10
003084	C1C1	2132+	DC C*AA'	COPYRIGHT IBM CORP 1976	
		2133+	ALIGN WORD		
003086	196E	2134+	DC AL2(PARMARA)		
		2135	\$TUXX T7A02,09,000000004000000040,OF,QT=(Q00006),YES=N00163, X		
003088	0500	2136+N00153	DC A(@TUXX)		
00308A	311A	2137+	DC AL2(N00163)		
00308C	367E	2138+	DC A(T7A02)		
003090	0202	2139+	DC AL2(OF)		
003092	0009	2140+	DC AL2(09)		
003092	00000000400000004	2141+	DC X*000000004000000040'		
00309C	0000	2142+	ALIGN WORD		
00309E	C1C1	2143+	DC AL2(0)		
		2144+	DC C*AA'		
		2145+	ALIGN WORD		
0030A0	196E	2146+	DC AL2(PARMARA)		
		2147	\$TUXX T7A02,09,000000000200000002,OF,QT=(Q00006),YES=N00162, X		
0030A2	0500	2148+N00154	DC A(@TUXX)		
0030A4	311E	2149+	DC AL2(N00162)		
0030A6	367E	2150+	DC A(T7A02)		
0030A8	0202	2151+	DC AL2(OF)		
0030AA	0009	2152+	DC AL2(09)		
0030AC	0000000020000000	2153+	DC X*00000000200000002'		
0030B5	0000	2154+	ALIGN WORD		
0030B6	0000	2155+	DC AL2(0)		
0030B8	C1C1	2156+	DC C*AA'		
		2157+	ALIGN WORD		
0030BA	196E	2158+	DC AL2(PARMARA)		
		2159	\$TUXX T7A02,07,0000000000020,ON,QT=(Q00007),YES=N00159, X		
0030BC	0500	2160+N00155	DC A(@TUXX)		
0030BE	30F4	2161+	DC AL2(N00159)		
0030C0	367E	2162+	DC A(T7A02)		
0030C2	0200	2163+	DC AL2(ON)		
0030C4	0007	2164+	DC AL2(07)		
0030C6	00000000000020	2165+	DC X*000000000000020'		
0030C8	0000	2166+	ALIGN WORD		
0030CE	0000	2167+	DC AL2(0)		
0030D0	C1C1	2168+	DC C*AA'		
		2169+	ALIGN WORD		
0030D2	196E	2170+	DC AL2(PARMARA)		
		2171	\$TUXX T7A02,08,00000000000040,OF,QT=(Q00006),YES=N00158, X		
0030D4	0500	2172+N00156	DC A(@TUXX)		
0030D6	30F0	2173+	DC AL2(N00158)		
0030D8	367E	2174+	DC A(T7A02)		
0030DA	0202	2175+	DC AL2(OF)		
0030DC	0008	2176+	DC AL2(08)		
0030DE	0000004000000040	2177+	DC X*0000004000000040'		
		2178+	ALIGN WORD		
0030E6	0000	2179+	DC AL2(0)		
0030E8	C1C1	2180+	DC C*AA'		
		2181+	ALIGN WORD		
0030EA	196E	2182+	DC AL2(PARMARA)		
		2183	\$FIXT FT=(F00033),GTO=((7A70,C))		
0030EC	0101	2184+N00157	DC A(@FIXT)		
0030EE	341A	2185+	DC A(F00033)		
		2186	\$FIXT FT=(F00094),GTO=((7A76,I))		
0030F0	0101	2187+N00158	DC A(@FIXT)		
0030F2	35A2	2188+	DC A(F00094)		
		2189	\$TUXX T7A02,09,00000000400000004,OF,QT=(Q00006),YES=N00161, X		
0030F4	0500	2190+N00159	DC A(@TUXX)		
0030F6	3112	2191+	DC AL2(N00161)		
0030F8	367E	2192+	DC A(T7A02)		
0030FA	0202	2193+	DC AL2(OF)		
0030FC	0009	2194+	DC AL2(09)		
0030FE	0000000040000000	2195+	DC X*00000000400000004'		
003107	0000	2196+	ALIGN WORD		
003108	0000	2197+	DC AL2(0)		
00310A	C1C1	2198+	DC C*AA'		
		2199+	ALIGN WORD		
00310C	196E	2200+	DC AL2(PARMARA)		
		2201	\$FIXT FT=(F00093),GTO=((7A76,S))		
00310E	0101	2202+N00160	DC A(@FIXT)		
003110	35B0	2203+	DC A(F00093)		
		2204	\$FIXT FT=(F00031),GTO=((7A70,J))		
003112	0101	2205+N00161	DC A(@FIXT)		
003114	3444	2206+	DC A(F00031)		
		2207	\$FIXT FT=(F00092),GTO=((7A72,D))		
003116	0101	2208+N00162	DC A(@FIXT)		
003118	35BE	2209+	DC A(F00092)		
		2210	\$TUXX T7A02,09,000000000000020,ON,QT=(Q00007),YES=N00173, X		
00311A	0500	2211+N00163	DC A(@TUXX)		
00311C	31AC	2212+	DC AL2(N00173)		
00311E	367E	2213+	DC A(T7A02)		
003120	0200	2214+	DC AL2(ON)		
003122	0009	2215+	DC AL2(09)		
003124	0000000000000020	2216+	DC X*0000000000000020'		
00312D	0000	2217+	ALIGN WORD		
00312E	0000	2218+	DC AL2(0)		
003130	C1C1	2219+	DC C*AA'		
		2220+	ALIGN WORD		
003132	196E	2221+	DC AL2(PARMARA)		
		2222	\$TUXX T7A02,07,00008000000080,OF,QT=(Q00006),YES=N00172, X		
003134	0500	2223+N00164	DC A(@TUXX)		
003136	31A8	2224+	DC AL2(N00172)		
003138	367E	2225+	DC A(T7A02)		
00313A	0202	2226+	DC AL2(OF)		
00313C	0007	2227+	DC AL2(07)		
00313E	00008000000080	2228+	DC X*00008000000080'		
003145	0000	2229+	ALIGN WORD		
003146	0000	2230+	DC AL2(0)		
003148	C1C1	2231+	DC C*AA'		
		2232+	ALIGN WORD		
00314A	196E	2233+	DC AL2(PARMARA)		
		2234	\$TUXX T7A02,07,00000000000080,ON,QT=(Q00007),YES=N00171, X		
00314C	0500	2235+N00165	DC A(@TUXX)		
00314E	31A4	2236+	DC AL2(N00171)		
003150	367E	2237+	DC A(T7A02)		
003152	0200	2238+	DC AL2(ON)		
003154	0007	2239+	DC AL2(07)		
003156	00000000000080	2240+	DC X*00000000000080'		
00315D	0000	2241+	ALIGN WORD		
00315E	0000	2242+	DC AL2(0)		
003160	C1C1	2243+	DC C*AA'		
		2244+	ALIGN WORD		
003162	196E	2245+	DC AL2(PARMARA)		

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	P/N=8327656 EC=375222	PAGE 10A
003164	0500	2246	\$TUXX T7A02,09,0000000020000002,OF,QT=(Q00006),YES=N00170, X		
003166	31A0	2247+N00166	DC A(@TUXX)		
003168	367E	2248+	DC AL2(N00170)		
00316A	0202	2249+	DC A(T7A02)		
00316C	0009	2250+	DC AL2(OF)		
00316E	0000000020000000	2251+	DC AL2(09)		
003177	0000	2252+	DC X*0000000020000002'		
003178	0000	2253+	ALIGN WORD		
00317A	C1C1	2254+	DC AL2(0)		
		2255+	DC C*AA'		
		2256+	ALIGN WORD		
00317C	196E	2257+	DC AL2(PARMARA)		
		2258	\$TUXX T7A02,09,00000000000010,ON,QT=(Q00007),YES=N00169, X		
00317E	0500	2259+N00167	DC A(@TUXX)		
003180	319C	2260+	DC AL2(N00169)		
003182	367E	2261+	DC A(T7A02)		
003184	0200	2262+	DC AL2(ON)		
003186	0009	2263+	DC AL2(09)		
003188	000000000000001	2264+	DC X*0000000000000010'		
003191	0000	2265+	ALIGN WORD		
003192	0000	2266+	DC AL2(0)		
003194	C1C1	2267+	DC C*AA'		
		2268+	ALIGN WORD		
003196	196E	2269+	DC AL2(PARMARA)		
		2270	\$FIXT FT=(F00033),GTO=((7A70,C))		
003198	0101	2271+N00168	DC A(@FIXT)		
00319A	341A	2272+	DC A(F00033)		
		2273	\$FIXT FT=(F00094),GTO=((7A76,I))		
00319C	0101	2274+N00169	DC A(@FIXT)		
00319E	35A2	2275+	DC A(F00094)		
		2276	\$FIXT FT=(F00033),GTO=((7A70,C))		
0031A0	0101	2277+N00170	DC A(@FIXT)		
0031A2	341A	2278+	DC A(F00033)		
		2279	\$FIXT FT=(F00111),GTO=((7A76,D))		
0031A4	0101	2280+N00171	DC A(@FIXT)		
0031A6	35CC	2281+	DC A(F00111)		
		2282	\$FIXT FT=(F00111),GTO=((7A76,D))		
0031A8	0101	2283+N00172	DC A(@FIXT)		
0031AA	35CC	2284+	DC A(F00111)		
		2285	\$FIXT FT=(F00094),GTO=((7A76,I))		
0031AC	0101	2286+N00173	DC A(@FIXT)		
0031AE	35A2	2287+	DC A(F00094)		
		2288	\$TUXX T7A02,02,0080,OF,QT=(Q00006),YES=N00184,CT=(C00027)		
0031B0	0500	2289+N00174	DC A(@TUXX)		
0031B2	3238	2290+	DC AL2(N00184)		
0031B4	367E	2291+	DC A(T7A02)		
0031B6	0202	2292+	DC AL2(OF)		
0031B8	0002	2293+	DC AL2(02)		
0031BA	0080	2294+	DC X*0080'		
		2295+	ALIGN WORD		
0031BC	0000	2296+	DC AL2(0)		
0031BE	C1C1	2297+	DC C*AA'		
		2298+	ALIGN WORD		
0031C0	196E	2299+	DC AL2(PARMARA)		
		2300	\$TUXX T7A02,08,0000000040000004,OF,QT=(Q00006),YES=N00183, X		
0031C2	0500	2301+N00175	DC A(@TUXX)		
0031C4	3234	2302+	DC AL2(N00183)		
0031C6	367E	2303+	DC A(T7A02)		
0031C8	0202	2304+	DC AL2(OF)		
0031CA	0008	2305+	DC AL2(08)		
0031CC	000000400000004	2306+	DC X*000000400000004'		
		2307+	ALIGN WORD		
0031D4	0000	2308+	DC AL2(0)		
0031D6	C1C1	2309+	DC C*AA'		
		2310+	ALIGN WORD		
0031D8	196E	2311+	DC AL2(PARMARA)		
		2312	\$TUXX T7A02,02,0010,OF,QT=(Q00006),YES=N00178,CT=(C00024)		
0031DA	0500	2313+N00176	DC A(@TUXX)		
0031DC	31F0	2314+	DC AL2(N00178)		
0031DE	367E	2315+	DC A(T7A02)		
0031E0	0202	2316+	DC AL2(OF)		
0031E2	0002	2317+	DC AL2(02)		
0031E4	0010	2318+	DC X*0010'		
		2319+	ALIGN WORD		
0031E6	0000	2320+	DC AL2(0)		
0031E8	C1C1	2321+	DC C*AA'		
		2322+	ALIGN WORD		
0031EA	196E	2323+	DC AL2(PARMARA)		
		2324	\$FIXT FT=(F00047),GTO=((7A70,B))		
0031EC	0101	2325+N00177	DC A(@FIXT)		
0031EE	3436	2326+	DC A(F00047)		
		2327	\$TUXX T7A02,09,0000000020000002,OF,QT=(Q00006),YES=N00180, X		
0031F0	0500	2328+N00178	DC A(@TUXX)		
0031F2	320E	2329+	DC AL2(N00180)		
0031F4	367E	2330+	DC A(T7A02)		
0031F6	0202	2331+	DC AL2(OF)		
0031F8	0009	2332+	DC AL2(09)		
0031FA	0000000200000002	2333+	DC X*0000000200000002'		
003203	0000	2334+	ALIGN WORD		
003204	0000	2335+	DC AL2(0)		
003206	C1C1	2336+	DC C*AA'		
		2337+	ALIGN WORD		
003208	196E	2338+	DC AL2(PARMARA)		
		2339	\$FIXT FT=(		

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
003234	0101	2360	N00183 \$FIXT FT=(F00097),GTO=((7A76,H))	
003236	35E8	2361+N00183	DC A(@FIXT)	
003238	0101	2362+	DC A(F00097)	
00323A	35F6	2363 N00184	\$FIXT FT=(F00110),GTO=((7A72,K))	
00323C	0500	2364+N00184	DC A(@FIXT)	
00323E	33B8	2365+	DC A(F00110)	
003240	367E	2366 N00185	\$TUXX T7A02,09,000000002000000020,OF,QT=(Q00006),YES=N00213, X	
003242	0202	2367+N00185	DC A(@TUXX)	
003244	0009	2368+	DC AL2(N00213)	
003246	00000000200000002	2369+	DC A(T7A02)	
00324F	00	2370+	DC AL2(OF)	
003250	0000	2371+	DC AL2(09)	
003252	C1C1	2372+	DC X'000000002000000020'	
003254	196E	2373+	ALIGN WORD	
003256	0500	2374+	DC AL2(0)	
003258	3398	2375+	DC C'AA'	
00325A	367E	2376+	ALIGN WORD	
00325C	0200	2377+	DC AL2(PARMARA)	
00325E	0007	2378 N00186	\$TUXX T7A02,07,0000000000080,ON,QT=(Q00007),YES=N00210, X	
003260	000000000000080	2379+N00186	DC A(@TUXX)	
003267	00	2380+	DC AL2(N00210)	
003268	0000	2381+	DC A(T7A02)	
00326A	C1C1	2382+	DC AL2(ON)	
00326C	196E	2383+	DC AL2(07)	
00326E	0500	2384+	DC X'000000000000080'	
003270	3378	2385+	ALIGN WORD	
003272	367E	2386+	DC AL2(0)	
003274	0202	2387+	DC C'AA'	
003276	0009	2388+	ALIGN WORD	
003278	00000000100000001	2389+	DC AL2(PARMARA)	
003281	00	2390 N00187	\$TUXX T7A02,09,000000001000000010,OF,QT=(Q00006),YES=N00207, X	
003282	0000	2391+N00187	DC A(@TUXX)	
003284	C1C1	2392+	DC AL2(N00207)	
003286	196E	2393+	DC A(T7A02)	
003288	0500	2394+	DC AL2(OF)	
00328A	329E	2395+	DC AL2(09)	
00328C	367E	2396+	DC X'000000001000000010'	
00328E	0202	2397+	ALIGN WORD	
003290	0002	2398+	DC AL2(0)	
003292	0008	2399+	DC C'AA'	
003294	0000	2400+	ALIGN WORD	
003296	C1C1	2401+	DC AL2(PARMARA)	
003298	196E	2402 N00188	\$TUXX T7A02,02,0008,OF,QT=(Q00006),YES=N00190,CT=(C00026)	
00329A	0101	2403+N00188	DC A(@TUXX)	
00329C	35B0	2404+	DC AL2(N00190)	
00329E	0500	2405+	DC A(T7A02)	
0032A0	3374	2406+	DC AL2(OF)	
0032A2	367E	2407+	DC AL2(02)	
0032A4	0202	2408+	DC X'0008'	
0032A6	000E	2409+	ALIGN WORD	
0032A8	0000000000000000	2410+	DC AL2(0)	
0032B6	0000	2411+	DC C'AA'	
0032B8	C1C1	2412+	ALIGN WORD	
0032BA	196E	2413+	DC AL2(PARMARA)	
0032BC	0500	2414 N00189	\$FIXT FT=(F00093),GTO=((7A76,S))	
0032BE	335A	2415+N00189	DC A(@FIXT)	
0032C0	367E	2416+	DC A(F00093)	
0032C2	0202	2417 N00190	\$TUXX T7A02,14,00000000000000000000100,OF,QT=(Q00042), X	
0032C4	0007	2418+N00190	DC A(@TUXX)	
0032C6	000040000000040	2419+	DC AL2(N00206)	
0032CD	00	2420+	DC A(T7A02)	
0032CE	0000	2421+	DC AL2(OF)	
0032D0	C1C1	2422+	DC AL2(14)	
0032D2	196E	2423+	DC X'000000000000000000000000100'	
0032D4	0500	2424+	ALIGN WORD	
0032D6	333A	2425+	DC AL2(0)	
0032D8	367E	2426+	DC C'AA'	
0032DA	0202	2427+	ALIGN WORD	
0032DC	0008	2428+	DC AL2(PARMARA)	
0032DE	00000040000000040	2429 N00191	\$TUXX T7A02,07,00004000000040,OF,QT=(Q00006),YES=N00203, X	
0032E6	0000	2430+N00191	DC A(@TUXX)	
0032E8	C1C1	2431+	DC AL2(N00203)	
0032EA	196E	2432+	DC A(T7A02)	
0032EC	0500	2433+	DC AL2(OF)	
0032EE	3302	2434+	DC AL2(0F)	
0032F0	367E	2435+	DC X'00004000000040'	
0032F2	0202	2436+	ALIGN WORD	
0032F4	0002	2437+	DC AL2(0)	
0032F6	0002	2438+	DC C'AA'	
0032F8	0000	2439+	ALIGN WORD	
0032FA	C1C1	2440+	DC AL2(PARMARA)	
0032FC	196E	2441 N00192	\$TUXX T7A02,08,0000004000000040,OF,QT=(Q00006),YES=N00200, X	
0032FE	0101	2442+N00192	DC A(@TUXX)	
003300	341A	2443+	DC AL2(N00200)	
003302	0500	2444+	DC A(T7A02)	
003304	3336	2445+	DC AL2(OF)	
003306	367E	2446+	DC AL2(08)	
003308	0202	2447+	DC X'0000004000000040'	
00330A	0009	2448+	ALIGN WORD	
		2449+	DC AL2(0)	
		2450+	DC C'AA'	
		2451+	ALIGN WORD	
		2452+	DC AL2(PARMARA)	
		2453 N00193	\$TUXX T7A02,02,0002,OF,QT=(Q00006),YES=N00195,CT=(C00032)	
		2454+N00193	DC A(@TUXX)	
		2455+	DC AL2(N00195)	
		2456+	DC A(T7A02)	
		2457+	DC AL2(OF)	
		2458+	DC AL2(02)	
		2459+	DC X'0002'	
		2460+	ALIGN WORD	
		2461+	DC AL2(0)	
		2462+	DC C'AA'	
		2463+	ALIGN WORD	
		2464+	DC AL2(PARMARA)	
		2465 N00194	\$FIXT FT=(F00033),GTO=((7A70,C))	
		2466+N00194	DC A(@FIXT)	
		2467+	DC A(F00033)	
		2468 N00195	\$TUXX T7A02,09,00000008000000080,OF,QT=(Q00006),YES=N00199, X	
		2469+N00195	DC A(@TUXX)	
		2470+	DC AL2(N00199)	
		2471+	DC A(T7A02)	
		2472+	DC AL2(OF)	
		2473+	DC AL2(09)	

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
00330C	0000000800000008	2474+	DC X'00000008000000080'	
003315	00	2475+	ALIGN WORD	
003316	0000	2476+	DC AL2(0)	
003318	C1C1	2477+	DC C'AA'	
00331A	196E	2478+	ALIGN WORD	
00331C	0500	2479+	DC AL2(PARMARA)	
00331E	3332	2480 N00196	\$TUXX T7A02,02,0010,OF,QT=(Q00006),YES=N00198,CT=(C00024)	
003320	367E	2481+N00196	DC A(@TUXX)	
003322	0202	2482+	DC AL2(N00198)	
003324	0002	2483+	DC A(T7A02)	
003326	0010	2484+	DC AL2(OF)	
003328	0000	2485+	DC AL2(02)	
00332A	C1C1	2486+	DC X'0010'	
00332C	196E	2487+	ALIGN WORD	
00332E	0101	2488+	DC AL2(0)	
003330	3436	2489+	DC C'AA'	
003332	0101	2490+	ALIGN WORD	
003334	34EC	2491+	DC AL2(PARMARA)	
003336	0101	2492 N00197	\$FIXT FT=(F00047),GTO=((7A70,B))	
003338	3436	2493+N00197	DC A(@FIXT)	
00333A	0500	2494+	DC A(F00047)	
00333C	3356	2495 N00198	\$FIXT FT=(F00090),GTO=((7A76,F))	
00333E	367E	2496+N00198	DC A(@FIXT)	
003340	0202	2497+	DC A(F00090)	
003342	0007	2498 N00199	\$FIXT FT=(F00047),GTO=((7A70,B))	
003344	00000100000001	2499+N00199	DC A(@FIXT)	
003346	0000	2500+	DC A(F00047)	
003348	C1C1	2501 N00200	\$TUXX T7A02,07,00000100000001,OF,QT=(Q00006),YES=N00202, X	
003350	196E	2502+N00200	DC A(@TUXX)	
003352	0101	2503+	DC AL2(N00202)	
003354	3498	2504+	DC A(T7A02)	
003356	0101	2505+	DC AL2(OF)	
003358	347C	2506+	DC AL2(07)	
00335A	0500	2507+	DC X'00000100000001'	
00335C	3370	2508+	ALIGN WORD	
00335E	367E	2509+	DC AL2(0)	
003360	0202	2510+	DC C'AA'	
003362	0002	2511+	ALIGN WORD	
003364	0004	2512+	DC AL2(PARMARA)	
003366	0000	2513 N00201	\$FIXT FT=(F00052),GTO=((7A70,E))	
003368	C1C1	2514+N00201	DC A(@FIXT)	
00336A	196E	2515+	DC A(F00052)	
00336C	0101	2516 N00202	\$FIXT FT=(F00084),GTO=((7A72,F))	
00336E	347C	2517+N00202	DC A(@FIXT)	
003370	0500	2518+	DC A(F00084)	
003372	35E8	2519 N00203	\$TUXX T7A02,02,0004,OF,QT=(Q00006),YES=N00205,CT=(C00062)	
003374	0101	2520+N00203	DC A(@TUXX)	
003376	35E8	2521+	DC AL2(N00205)	
003378	0500	2522+	DC A(T7A02)	
00337A	3394	2523+	DC AL2(OF)	
00337C	367E	2524+	DC AL2(02)	
00337E	3544	2525+	DC X'0004'	
003380	0007	2526+	ALIGN WORD	
003382	00001000000010	2527+	DC AL2(0)	
003384	0000	2528+	DC C'AA'	
003386	C1C1	2529+	ALIGN WORD	
003388	196E	2530+	DC AL2(PARMARA)	
00338A	0101	2531 N00204	\$FIXT FT=(F00033),GTO=((7A70,C))	
00338C	341A	2532+N00204	DC A(@FIXT)	
00338E	0101	2533+	DC A(F00033)	
003390	347A	2534 N00205	\$FIXT FT=(F00097),GTO=((7A76,H))	
003392	0101	2535+N00205	DC A(@FIXT)	
003394	35E8	2536+	DC A(F00097)	
003396	0101	2537 N00206	\$FIXT FT=(F00097),GTO=((7A76,H))	
003398	35E8	2538+N00206	DC A(@FIXT)	
00339A	0500	2539+	DC A(F00097)	
00339C	3394	2540 N00207	\$TUXX T7A02,07,00001000000010,OF,QT=(Q00006),YES=N00209, X	
00339E	367E	2541+N00207	DC A(@TUXX)	
003398	367E	2542+	DC AL2(N00209)	
00339A	0007	2543+	DC A(T7A02)	
00339C	0007	2544+	DC AL2(OF)	
00339E	00001000000010	2545+	DC AL2(07)	
003398	00	2546+	DC X'00001000000010'	
00339A	0000	2547+	ALIGN WORD	
00339C	C1C1	2548+	DC AL2(0)	
00339E	196E	2549+	DC C'AA'	
003398	0101	2550+	ALIGN WORD	
00339A	34C2	2551+	DC AL2(PARMARA)	
00339C	0101	2552 N00208	\$FIXT FT=(F00087),GTO=((7A72,V))	
00339E	3604	2553+N00208	DC A(@FIXT)	
003398	0101	2554+	DC A(F00087)	
00339A	3604	2555 N00209	\$FIXT FT=(F00113),GTO=((7A70,I))	
00339C	0101	2556+N00209	DC A(@FIXT)	
00339E	3604	2557+	DC A(F00113)	
003398	0500	2558 N00210	\$TUXX T7A02,07,00004000000040,OF,QT=(Q00006),YES=N00212, X	
00339A	33B4	2559+N00210	DC A(@TUXX)	
00339C	367E	2560+	DC AL2(N00212)	
00339E	0202	2561+	DC A(T7A02)	
0033A0	0007	2562+	DC AL2(OF)	
0033A2	00004000000040	2563+	DC AL2(07)	
0033A4	00	2564+	DC X'00004000000040'	
0033A6	0000	2565+	ALIGN WORD	
0033A8	C1C1	2566+	DC AL2(0)	
0033AA	0000	2567+	DC C'AA'	
0033AC	196E	2568+	ALIGN WORD	
0033AE	0500	2569+	DC AL2(PARMARA)	
0033B0	0101	2570 N00211	\$FIXT FT=(F00052),GTO=((7A70,E))	
0033B2	3498	2571+N00211	DC A(@FIXT)	
0033B4	0101	2572+	DC A(F00052)	
0033B6	3612	2573 N00212	\$FIXT FT=(F00112),GTO=((7A72,A))	
0033B8	0500	2574+N00212	DC A(@FIXT)	
0033BA	33CE	2575+	DC A(F00112)	
0033BC	367E	2576 N00213	\$TUXX T7A02,02,0008,OF,QT=(Q00006),YES=N00215,CT=(C00026)	
0033BE	0202	2577+N00213	DC A(@TUXX)	
0033C0	0002	2578+	DC AL2(N00215)	
0033C2	0008	2579+	DC A(T7A02)	
0033C4	0000	2580+	DC AL2(OF)	
0033C6	C1C1	2581+	DC AL2(02)	</

Table with columns: LOCTR, OBJECT TEXT, STMT, SOURCE STATEMENT. Includes source code for FRU isolation, such as \$FIXT FT=(F00093),GTO=((7A76,S)) and various DC and EQU statements.

Table with columns: LOCTR, OBJECT TEXT, STMT, SOURCE STATEMENT. Includes source code for FRU isolation, such as DC A(0010) and EQU statements, along with program option control words and a character supplied table.

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
		2818**	3 INTERRUPT RECEIVED IN	11 ISB BITS ON (1-7) ISBON
		2819**		
		2820**	4 EXPECTED ERR/ATTENT XE	12 TEST UNIT RESULTS VOID NG
		2821**	5 HARD ERROR FOUND HE	13 OIO CC ERROR IOCC
		2822**	6 WRONG INTR LEVEL \$LE	14 NO INTERRUPT NOIN
		2823**	7 NO INTR EXPECTED NI	15 INTERRUPT CC ERROR INCC
000020		2824**		
000021		2825+MI	EQU 32 0	8 MYSTERY INTERRUPT HAPPENED
000022		2826+ER	EQU 33 1	4 ERROR RECEIVED ON INTERRUPT
000023		2827+XI	EQU 34 2	2 EXPECTED INTERRUPT CONTROL BIT
000024		2828+IN	EQU 35 3	1 INTERRUPT RECEIVED CONTROL BIT
000025		2829+XE	EQU 36 4	8 EXPECTED ERROR RESPONSE
000026		2830+HE	EQU 37 5	4 HARD ERROR, 8 RETRIES
000027		2831+\$LE	EQU 38 6	2 INTERRUPT ON WRONG LEVEL ERROR
000028		2832+NI	EQU 39 7	1 NO INTERRUPT EXPECTED E
000029		2833+CS	EQU 40 8	4 CYCLE STATUS IN PROGRESS
00002A		2834+CSA	EQU 41 9	4 CYCLE STEAL AVAILABLE
00002B		2835+CE	EQU 42 10	2 CYCLE STEAL STATUS INERRRUPT ERROR
00002C		2836+ISBON	EQU 43 11	1 ISB BITS ON (1-7)
00002D		2837+NG	EQU 44 12	8 TEST UNIT RESULTS NO GOOD
00002E		2838+IOCC	EQU 45 13	4 OIO CC ERROR
00002F		2839+NOIN	EQU 46 14	2 NO INTERRUPT
		2840+INCC	EQU 47 15	1 INTEPRUPT CC ERROR
		2841**		
		2842**	COMMON BUFFER FOR PRINTING DATA	
		2843**		
003634	0000	2845+\$TUID	DC A(*-*)	TEST UNIT IDENTIFICATION
003635	0000	2846+\$IIOIN	DC A(*-*)	I/O AND INTR CONDITION CODES
003636	0000	2847+\$ISIS	DC A(*-*)	R7 INTR STATUS BYTE & DEV ADRS
003637	0000	2848+LSTIO	DC A(*-*)	ADRS OF LAST I/O + 4 BYTES
003638	0000	2849+DEV1	DC A(*-*)	DEVICE DEPENDENT DATA
003639	0000	2850+DEV2	DC A(*-*)	*
003640	0000	2851+DEV3	DC A(*-*)	*
003641	0000	2852+DEV4	DC A(*-*)	CS STATUS ERROR ISB & INTR CC
003642	0000	2853+SCTID	EQU DEV1	READ ID BUFFER FOR IBIS & TERN
003643	0000	2854+DCBUF	EQU *	DCB BUFFER FOR LAST DCB USED
003644	0000	2855+DCB1	DC A(*-*)	LAST DCB TABLE, CONTROL WORD
003645	0000	2856+DCB2	DC A(*-*)	LAST DCB TABLE, DEV DEP WORD
003646	0000	2857+DCB3	DC A(*-*)	LAST DCB TABLE, DEV DEP WORD
003647	0000	2858+DCB4	DC A(*-*)	LAST DCB TABLE, DEV DEP WORD
003648	0000	2859+DCB5	DC A(*-*)	LAST DCB TABLE, DEV DEP WORD
003649	0000	2860+DCB6	DC A(*-*)	LAST DCB TABLE, CHAIN ADRS
003650	0000	2861+DCB7	DC A(*-*)	LAST DCB TABLE, BYTE COUNT
003651	0000	2862+DCB8	DC A(*-*)	LAST DCB TABLE, BUFFER ADDRESS
003652	0000	2863**		
003654	0000	2864+CSBUF	EQU *	CYCLE STEAL DATA BUFFER
003655	0000	2865+CSTL1	DC A(*-*)	CS STATUS WD 0, RESIDUAL ADDRESS
003656	0000	2866+CSTL2	DC A(*-*)	CS STATUS WD 1, RESIDUAL COUNT
003657	0000	2867+CSTL3	DC A(*-*)	CS STATUS WD 2, RETRY CNT WD 1
003658	0000	2868+CSTL4	DC A(*-*)	CS STATUS WD 3, RETRY CNT WD 2
003659	0000	2869+CSTL5	DC A(*-*)	CS STATUS WD 4, ERROR STATUS WD 1
003660	0000	2870+CSTL6	DC A(*-*)	CS STATUS WD 5, ERROR STATUS WD 2
003661	0000	2871+CSTL7	DC A(*-*)	CS STATUS WD 6, LAST DCB ADDRESS
003662	0000	2872+CSTL8	DC A(*-*)	CS STATUS WD 7, PREVIOUS HD/CYL
003663	0000	2873+CSTL9	DC A(*-*)	CS STATUS WD 8, CURRENT HD/CYL
003664	0000	2874+CSTL10	DC A(*-*)	CS STATUS WD 9, FLAG/SECTOR
003665	0000	2875+CSTL11	DC A(*-*)	CS STATUS WD 10, HEAD/CYLINDER
003666	0000	2876+CSTL12	DC A(*-*)	CS STATUS WD 11, DIAG BYTES 1, 2
003667	0000	2877+CSTL13	DC A(*-*)	CS STATUS WD 12, AND 3 + WRAP BYFE
003668	0000	2878**		
003669	0000	2879+\$SUBN	DC A(*-*)	LAST SUPROUTINE ADDRESS USED
003670	00000000	2880+\$DATA	DC 2A(*-*)	OPTIONAL DATA
003671	0021	2881+\$INTL	DC X'0021'	INTERRUPT LEVEL REQUESTED
003672	0000	2882+TURTN	DC A(*-*)	TEST UNIT RETURN ADRS TO MDI
003673	00	2883+\$DVID	DC X'00'	DEVICE ID
003674	19D0	2884+\$VCAL	DC A(DEVADD)	ADRS OF DEVICE ADDRESS
003675	0000	2885+*	DC A(*-*)	IBIS CYLINDER ADDRESS
003676	0000	2886**		
003677	0000	2887**	THIS TEST UNIT WILL RETURN TO MDI WITHOUT DOING ANY PROGRAM	
003678	0000	2888**	FUNCTION. THE RESULTS THAT WERE SET UP IN THE RESULTS AREA ARE	
003679	0000	2889**	STILL VALID BUT A DIFFERENT TEST IS TO BE PERFORMED.	
003680	0000	2890**		
00367E	4020 3634 7A02	2891+T7A02	MVWI X'7A02', \$TUID	SET UP TEST UNIT ID
003684	5700	2892+	BXS (R7)	RETURN TO MDI SUPVR
		2894	COPY COMEQU	
		2895	*****	*****
		2896	*	*
		2897	*	*
		2898	EQUATED NAMES FOR SUPPORTED SVC'S	
		2899	*****	*****
000000		2900	OUT EQU 0	OUT SVC
000001		2901	OUTIN EQU 1	OUTIN SVC
000002		2902	IDLE EQU 2	IDLE SVC
000003		2903	IDLE5 EQU 3	IDLE SVC - INDEPENDENT OF CPU TYPE
000004		2904	CHNGE EQU 4	CHANGE LEVEL SVC
000005		2905	PGMCK EQU 5	ALLOW RETURN ON PROGRAM CHECK SVC
000006		2906	EXIT EQU 6	EXIT SVC
000007		2907	TERM EQU 7	TERMINATE SVC
000008		2908	RESET EQU 8	RESET DEVICE SVC
000009		2909	RID EQU 9	READ I/O SVC
00000A		2910	START EQU 10	START CYCLE STEAL SVC
00000B		2911	STCSS EQU 11	START CYCLE STEAL STATUS SVC
00000C		2912	PREP EQU 12	PREPARE DEVICE SVC
00000D		2913	READ0 EQU 13	READ WITH FUNCTION BIT 3 OFF SVC
00000E		2914	READ1 EQU 14	READ WITH FUNCTION BIT 3 ON SVC
00000F		2915	RSTAT EQU 15	READ STATUS SVC
000010		2916	WRIT0 EQU 16	WRITE WITH FUNCTION BIT 3 OFF SVC
000011		2917	WRIT1 EQU 17	WRITE WITH FUNCTION BIT 3 ON SVC
000012		2918	CTRL EQU 18	CONTROL SVC
000013		2919	RICB EQU 19	RELEASE INTERRUPT CONTROL BLOCK SVC
000014		2920	CICB EQU 20	CONNECT INTERRUPT CONTROL BLOCK SVC
000015		2921	HIO EQU 21	HALT ALL I/O
000016		2922	REQSD EQU 22	REQUEST USE OF DCP DISK SVC
000017		2923	RELESD EQU 23	RELEASE USE OF DCP DISK SVC
000018		2924	HALT EQU 24	HALT SVC
000019		2925	ETOH EQU 25	EBCDIC TO HEX SVC (STRING)
00001A		2926	HTOE EQU 26	HEX TO EBCDIC SVC (STRING)
00001B		2927	ATOH EQU 27	ASCII TO HEX SVC (STRING)
00001C		2928	HTOA EQU 28	HEX TO ASCII SVC (STRING)
00001D		2929	ETOA EQU 29	EBCDIC TO ASCII SVC (STRING)
00001E		2930	ATOE EQU 30	ASCII TO EBCDIC SVC (STRING)
00001F		2931	READI EQU 31	READ DATA SETS FOR MDI/UTIL
000020		2932	WRITI EQU 32	WRITE DATA SETS FOR UTIL
		2934	*****	*****

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
		2935	*	
		2936	*	EQUATES USED BY TU'S AS CONSTANTS
		2937	*	*
		2938	*****	*****
00004E		2939	PLUS EQU C'+'	PLUS CHAR
000060		2940	MINUS EQU C'-'	MINUS CHAR
000000		2942	ZERO EQU 0	
000001		2943	ONE EQU 1	
000002		2944	TWO EQU 2	
000003		2945	THREE EQU 3	
000004		2946	FOUR EQU 4	
000005		2947	FIVE EQU 5	
000006		2948	SIX EQU 6	
000007		2949	SEVEN EQU 7	
000008		2950	EIGHT EQU 8	
000009		2951	NINE EQU 9	
00000A		2952	TEN EQU 10	
00000B		2953	ELVEN EQU 11	11
00000C		2954	TWELV EQU 12	12
00000D		2955	THRTN EQU 13	13
00000E		2956	FIVTN EQU 15	15
000010		2957	SIXTN EQU 16	16
000020		2958	THRY2 EQU 32	32
000040		2959	SIXT4 EQU 64	64
000080		2960	ONE28 EQU 128	128
000100		2961	TWO56 EQU 256	256
000400		2962	ONEK EQU 1024	1024
000800		2963	TWOK EQU 2048	2048
000C00		2964	THREK EQU 3072	3072
001000		2965	FOURK EQU 4096	4096
FFFFFFFF		2967	M1 EQU -1	-1
FFFFFFFE		2968	M2 EQU -2	-2
FFFFFFFD		2969	M3 EQU -3	-3
FFFFFFFC		2970	M4 EQU -4	-4
		2972	*****	*****
		2973	*	*
		2974	*	THE FOLLOWING ARE EQUATES FOR BIT DISPLACEMENTS FROM THE
		2975	*	BEGINNING OF THE BYTE TO EACH BIT IN THE WORD OF SWITCHES.
		2976	*****	*****
000000		2978	BS0 EQU 0	
000001		2979	BS1 EQU 1	
000002		2980	BS2 EQU 2	
000003		2981	BS3 EQU 3	
000004		2982	BS4 EQU 4	
000005		2983	BS5 EQU 5	
000006		2984	BS6 EQU 6	
000007		2985	BS7 EQU 7	
000008		2986	BS8 EQU 8	
000009		2987	BS9 EQU 9	
00000A		2988	BS10 EQU 10	
00000B		2989	BS11 EQU 11	
00000C		2990	BS12 EQU 12	
00000D		2991	BS13 EQU 13	
00000E		2992	BS14 EQU 14	
00000F		2993	BS15 EQU 15	
		2995	COPY T7A00DCB	23JAN78
		2996	** (T7A00DCB)	
		2997	*	*
		2998	*****4/28/77*****	
		2999	*	*
0000		3000	*	DCB TABLES AND DC'S
0001		3001	*	*
0002		3002	*****	*****
0003		3003	*	*
0004		3004	****	DIAGNOSTIC DCB *****
0005		3005	*	*
003686	2008	3006	DGDCB DC X'2008'	DIAGNOSTIC DCB
003688	0000	3007	DC A(*-*)	FLAG / PHYSICAL SECTOR#
00368A	0000	3008	DC A(*-*)	HEAD / CYLINDER#S
00368C	0000	3009	DC X'0000'	NOT USED
00368E	3760	3010	DC A(RSBA)	RSE ADDRESS
003690	0000	3011	DC A(*-*)	CHAINING ADDRESS
003692	0100	3012	DC X'0100'	BYTE COUNT
003694	0000	3013	DC A(*-*)	DATA ADDRESS
		3014	*	*
		3015	****	RECALIBRATE DCB *****
		3016	*	*
003696	0001	3017	CLDCB DC X'0001'	RECALIBRATE DCB
003698	0000000000000000	3018	DC 7A(*-*)	
		3019	*	*
		3020	****	WRITE SECTOR ID *****
		3021	*	*
0036A6	002D	3022	WSDCB DC X'002D'	WRITE SECTOR ID CNTL WORD
0036A8	0000	3023	DC A(*-*)	FLAG / PHYSICAL SECTOR#
0036AA	0000	3024	DC A(*-*)	HEAD / CYLINDER#S
0036AC	0000	3025	DC X'0000'	NOT USED
0036AE	3760	3026	DC A(RSBA)	RSE ADDRESS
0036B0	0000	3027	DC A(*-*)	CHAIN ADDRESS
0036B2	0004	3028	DC X'0004'	BYTE COUNT
0036B4	3754	3029	DC A(WRSID)	ADDR OF SECTOR ID DATA
		3030	*	*
		3031	****	READ SECTOR ID DCB *****
		3032	*	*
0036B6	201C	3033	RSDCB DC X'201C'	READ SECTOR ID CNTL WORD
0036B8	0000	3034	DC A(*-*)	FLAG / PHYSICAL SECTOR#
0036BA	0000	3035	DC X'0000'	HEAD / CYLINDER#S
0036BC	0000	3036	DC X'0000'	NOT USED
0036BE	3760	3037	DC A(RSBA)	RSE ADDRESS
0036C0	0000	3038		

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
3053 \*\*\*\*\* CYCLE STEAL STATUS DCB \*\*\*\*\*
3054 \*
3055 CSDCB DC X'2000' CONTROL WORD
3056 DC F'0' NOT USED
3057 DC F'0' NOT USED
3058 DC F'0' NOT USED
3059 DC F'0' NOT USED
3060 DC F'0' NOT USED
3061 DC X'001A' 13 WORDS OF STATUS
3062 DC A(CSBUF) ADDRESS OF CYCLE STEAL STATUS DATA
3063 \*
3064 \*\*\*\*\* WRITE DCB \*\*\*\*\*
3065 \*
3066 WRDCB DC X'0028' WRITE DATA DCB CNTL WORD
3067 DC A(\*-\*) FLAG / RECORD#
3068 DC A(\*-\*) HEAD / CYLINDER#'S
3069 DC A(\*-\*) SCAN / REPEAT COUNT
3070 DC A(RSBA) RSB ADDRESS
3071 DC A(\*-\*) CHAIN ADDRESS
3072 DC X'0100' BYTE COUNT
3073 DC A(\*-\*) WRITE DATA ADDRESS
3074 \*
3075 \*\*\*\*\* VERIFY DCP \*\*\*\*\*
3076 \*
3077 VRDCB DC X'0019' CONTROL WORD
3078 DC A(\*-\*) FLAG / RECORD#
3079 DC A(\*-\*) HEAD / CYLINDER#'S
3080 DC A(\*-\*) SCAN / REPEAT COUNT
3081 DC A(RSBA) RSB ADDRESS
3082 DC A(\*-\*) CHAIN ADDRESS
3083 DC A(\*-\*) BYTE COUNT
3084 DC F'0' NOT USED
3085 \*
3086 \*\*\*\*\* READ DCB \*\*\*\*\*
3087 \*
3088 RDDCB DC X'2018' READ DCB CONTROL WORD
3089 DC A(\*-\*) FLAG / RECORD#
3090 DC A(\*-\*) HEAD / CYLINDER#'S
3091 DC A(\*-\*) SCAN / REPEAT COUNT
3092 DC A(RSBA) RSB ADDRESS
3093 DC A(\*-\*) CHAIN ADDRESS
3094 DC X'0100' BYTE COUNT
3095 DC A(\*-\*) READ DATA ADDRESS
3096 \*
3097 \*\*\*\*\* WRITE SECTOR ID SKEWED \*\*\*\*\*
3098 \*
3099 WKDCB DC X'002F' CONTROL WORD
3100 DC A(\*-\*) FLAG / PHYSICAL SECTOR#
3101 DC A(\*-\*) HEAD / CYLINDER#'S
3102 DC F'0' NOT USED
3103 DC A(RSBA) RSB ADDRESS
3104 DC A(\*-\*) CHAIN ADDRESS
3105 DC X'0004' BYTE COUNT
3106 DC A(WRSID) ADDR OF SECTOR ID DATA
3107 \*
3108 \*\*\*\*\* READ SECTOR ID SKEWED \*\*\*\*\*
3109 \*
3110 RKDCB DC X'201D' CONTROL WORD
3111 DC A(\*-\*) FLAG / PHYSICAL SECTOR#
3112 DC A(\*-\*) HEAD / CYLINDER#'S
3113 DC F'0' NOT USED
3114 DC A(RSBA) RSB ADDRESS
3115 DC A(\*-\*) CHAIN ADDRESS
3116 DC X'0004' BYTE COUNT
3117 DC A(SCTID) SECTOR ID DATA ADDRESS
3118 \*
3119 \*\*\*\*\* READ MULTIPLE SECTOR IDS \*\*\*\*\*
3120 \*
3121 RMDCB DC X'201C' CONTROL WORD
3122 DC A(\*-\*) FLAG / PHYSICAL SECTOR#
3123 DC A(\*-\*) HEAD / CYLINDER#'S
3124 DC F'0' NOT USED
3125 DC A(RSBA) RSB ADDRESS
3126 DC A(\*-\*) CHAIN ADDRESS
3127 DC X'0084' BYTE COUNT
3128 DC A(ID00) DATA AREA ADDRESS
3129 \*
3130 \* CONSTANTS AND DEFINED STORAGE LOCATIONS
3131 ZERO0 DC X'0000' CONSTANT ZERO
3132 ONE1 DC X'0001' CONSTANT ONE
3133 RAY DC A(\*-\*) WRITE PARAMETER POINTER
3134 WDATA DC X'EB6D' WRITE DATA
3135 \*
3136 LGSEC DC X'6BDB' LOGICAL SECTOR #
3137 PHYSC DC X'0000' CONVERTED PHYSICAL SEC #
3138 WRSID DC X'0000' FLAG,SECTOR (WRT SECTOR ID DATA)
3139 \*
3140 WSIDT DC X'FF34' HEAD,CYLINDER WRITE SECTOR ID TEST DATA
3141 DC X'5678' \*
3142 SCTST DC X'0000' READ SECTOR ID TEST DATA BUFFER
3143 DC X'0000' \*
3144 RSBA DC 6A(\*-\*) RESIDUAL STATUS BLOCK
3145 CTR02 DC X'0000' COUNTER
3146 CTR03 DC X'0000' COUNTER
3147 ID00 DC X'0000' ID ADDRESS TO BE SET BY USER
3148 PDATA DC X'1010' WRITE DIAG WORD 1 DATA PATTERNS
3149 \*
3150 DC X'AAAA' \*
3151 DC X'FFFF' \*
3152 \*
3153 \*\*\*\*\*4/06/77\*\*\*\*\*
3154 \*
3155 \* SUBROUTINE
3156 \*
3157 \* PURPOSE
3158 \* COMPARE READ SECTOR ID DATA TO WRITE SECTOR ID DATA
3159 \*
3160 \*
3161 \* CALLING SEQUENCE
3162 \*
3163 \* BAL CMPRW,R6 (NORMAL)
3164 \*
3165 \* RETURN
3166 \*

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
3167 \* BXS (R6,2) - NORMAL
3168 \*
3169 \*
3170 \*\*\*\*\*
3171 \*
3172 CMPRW MVWI 4,R7 COMPARE BYTE COUNT
3173 MVA SCTID,R3 ADDR OF RD SEC ID DATA
3174 MVA WRSID,R5 ADDR OF WR SEC ID DATA
3175 CFNEN (R3),(R5) COMPARE ID DATA
3176 BE (R6,2) BCH IF WRITE ID DATA OK
3177 B (R6)\* COMPARE ERROR
3178 \*\*\*\*\*
3179 \*
3180 \* EXECUTE INPUT & OUTPUT COMMANDS
3181 \* EXECUTE ALL I/O COMMANDS FROM A COMMON PLACE.
3182 \* EACH OF THESE ENTRIES SET R7 WITH THE ADRS OF ITS PARAMETER
3183 \* LIST AND ANY SPECIAL SWITCHES BEFORE BRANCHING TO THE
3184 \* SUPVR CALL.
3185 \*
3186 \* THIS SUBROUTINE WILL CHECK FOR THE FOLLOWING:
3187 \*
3188 \* 1. LOST INTERRUPTS BY TIMING OUT A COUNTING LOOP
3189 \* 2. ERROR INTERRUPTS RECEIVED FROM SUPVR
3190 \*
3191 \* THIS ROUTINE HAS THE FOLLOWING ENTRIES:
3192 \*
3193 \* 1 BAL \$RKEW,R6 READ SECTOR ID SKEWED
3194 \*
3195 \* 2 BAL \$WKEW,R6 WRITE SECTOR ID SKEWED
3196 \*
3197 \* 3 BAL \$WSEC,R6 WRITE SECTOR ID
3198 \*
3199 \* 4 BAL \$DIAG,R6 DIAGNOSTIC
3200 \*
3201 \* 5 BAL XIOCS,R6 CYCLE STEAL STATUS
3202 \*
3203 \* 6 BAL \$SEEK,R6 SEEK
3204 \*
3205 \* 7 BAL \$RECL,R6 RECALIBRATE
3206 \*
3207 \* 8 BAL \$RDID,R6 READ SECTOR ID
3208 \*
3209 \* 9 BAL \$RD,R6 READ
3210 \*
3211 \* 10 BAL \$RDVY,R6 READ VERIFY
3212 \*
3213 \* 11 BAL \$WRT,R6 WRITE
3214 \*
3215 \* 12 BAL \$RDIM,R6 READ MULTI SECTOR IDS
3216 \*
3217 \*\*\*\*\*
3218 \*
3219 \*
3220 \$SEEK MVA SKDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
3221 J XIO
3222 \*
3223 \$RECL MVA CLDCB,IODCB SET UP BLOCK FOR SVC CALL
3224 J XIO
3225 \*
3226 \$RDID MVA RSDCB,IODCB SET UP BLOCK FOR SVC CALL
3227 MVB X'BB',R3 SET BUFFER TO B'S
3228 MVA SCTID,R5 SETUP READ SECTOR ID BUFFER ADRS
3229 MVWI 4,R7 SETUP BUFFER LENGTH
3230 FFN R3,(R5) INIT READ SECTOR ID BUFFER
3231 MVA SCTID,RSDCB+14 DATA ADDR
3232 J XIO
3233 \*
3234 \$RDIM MVA RMDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
3235 MVWI 132,R7 SET BUFFER LENGTH
3236 MVA ID00,R5 SET BUFFER ADDRESS
3237 MVB X'BB',R3 SET CLEAR CHARACTERS
3238 FFN R3,(R5) CLEAR THE BUFFER
3239 J XIO
3240 \*
3241 \$RD MVB X'FF',R3 SETRD BUFFER TO ALL F'S
3242 MVW RDDCB+14,R5 SET UP READ BUFFER ADRS
3243 MVW RDDCB+12,R7 SET UP BUFFER LENGTH
3244 FFN R3,(R5) CLEAR READ BUFFER
3245 \*
3246 \$RDS MVA RDDCB,IODCB SET UP BLOCK FOR SVC CALL
3247 J XIO
3248 \*
3249 \$RDVY MVA VRDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
3250 J XIO
3251 \*
3252 \$WRT MVA WRDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
3253 J XIO
3254 \*
3255 \$RKEW MVA RKDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
3256 MVB X'BB',R3 SET BUFFER TO B'S
3257 MVA SCTID,R5 SETUP READ SECTOR ID BUFFER ADRS
3258 MVWI 4,R7 SETUP BUFFER LENGTH
3259 FFN R3,(R5) INIT READ SECTOR ID BUFFER
3260 MVA SCTID,RKDCB+14 DATA ADDR
3261 J XIO
3262 \*
3263 \$WKEW MVA WKDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
3264 MVA WRSID,WKDCB+14 DATA ADDR
3265 J XIO
3266 \*
3267 \$WSEC MVA WSDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
3268 MVA WRSID,WSDCB+14 DATA ADDR
3269 J XIO
3270 \*
3271 \$DIAG MVA DGDCEB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
3272 J XIO
3273 \*
3274 \$WRT0 MVW R6,LSTIO SAVE IAR FOR RETRY IF REQUESTED
3275 MVB 255,R3 CLEAR CYCLE STATUS BUFFER
3276 MVA CSBUF,R5 \* TO ALL ONES \*
3277 MVB 22,R7 \*
3278 FFN R3,(R5) \*
3279 MVA DCBUF,R5 CLEAR DCB BUFFER TO ALL ONES
3280 MVB 16,R7 \*
3281 FFN R3,(R5) \*
3282 MVWI X'0708',SIOIN OVERLAY OLD CONDITION CODES
00377A 4724 0004
00377E 4324 363C
003782 4524 3754
003786 2BA6
003788 68C0 0002
00378C 68D2 0000
003790 4020 39A8 36C6
003796 507F
003798 4020 39A8 3696
00379E 507B
0037A0 4020 39A8 36B6
0037A6 0BBB
0037A8 4524 363C
0037AC 4724 0004
0037B0 2BAC
0037B2 4020 36C4 363C
0037B8 506E
0037BA 4020 39A8 3736
0037C0 4724 0084
0037C4 4524 3770
0037C8 0BBB
0037CA 2BAC
0037CC 5064
0037CE 0BFF
0037D0 6D08 3714
0037D4 6F08 3712
0037D8 2BAC
0037DA 4020 39A8 3706
0037E0 505A
0037E2 4020 39A8 36F6
0037E8 5056
0037EA 4020 39A8 36E6
0037F0 5052
0037F2 4020 39A8 3726
0037F8 0BBB
0037FA 4524 363C
0037FE 4724 0004
003802 2BAC
003804 4020 3734 363C
00380A 5045
00380C 4020 39A8 3716
003812 4020 3724 3754
003818 503E
00381A 4020 39A8 36A6
003820 4020 36B4 3754
003826 5037
003828 4020 39A8 3686
00382E 5033
003830 6E0D 363A
003834 0BFF
003836 4524 3654
00383A 0F16
00383C 2BAC
00383E 4524 3644
003842 0F10
003844 2BAC
003846 4020 3636 0708

LOCTR OBJECT TEXT STMT SOURCE STATEMENT
3282 MVWZ \$ISB,R3 ZERO OUT OLD ISB VALUE
3283 TBTR (R4,ER) CLEAR INTERRUPT RECEIVED CNTL BIT
3284 TBTR (R4,ER) RESET ANY ERROR BEFORE I/O COMMAND
3285 TBTS (R4,CI) SET EXPECTED INTR CONTROL BIT
3286 MVA IOBLK,R7 SFT UP CONTROL BLK FOR SUPR
3287 MVB IOMOD+1,R0 GET IDCB FUNC/MODIFIER
3288 RBTWI X'00F0',IOMOD REMOVE FUNCTION FROM 'IOMOD'

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
3961+ MVWI 0,R5 SET UP WORK REG FOR 'LOST INTR'
3962+XIO8 TBTR (R4,IN) HAS INTERRUPT BEEN RECEIVED
3963+ JON XIOCK \* YES, CHECK IF ALL WAS SATISFACTORY
3964+ SVC IDLE ALLOW ANOTHER PROGRAM A CHANCE TO RUN
3965+ SUPVR WILL RETURN HERE

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LOCTR OBJECT TEXT          STMT SOURCE STATEMENT          COPYRIGHT IBM CORP 1976
4078+**
4079+*****
003938 706E
00393A 336A
00393C 4424 362E
003940 4C63
003942 4C28
003944 1204
003946 C328 3637
00394A 6F0D 3638
00394E
4080+INTOK CPLSR R3
4081+ SRL 13,R3
4082+ MVA OPTN1,R4
4083+INTR1 TBTS (R4,IN)
4084+ TBT (R4,CS)
4085+ JON INTX2
4086+ MVB R3,$IOIN+1
4087+ MVW R7,$ISB
4088+INTR2 EQU *
4089+ CPCL R5
4090+ SLL 4,R5
4091+ ABI 1,R5
4092+ CW $INTL,R5
4093+ JE INTR3
4094+ TBTS (R4,$LE)
4095+ TBTS (R4,ER)
4096+INTR3 TBTR (R4,XI)
4097+ JON INTX1
4098+ TBTS (R4,MI)
4099+ CBI 4,R3
4100+ JE INTRX
4101+ TBTS (R4,NG)
4102+INTRX SVC EXIT
4104+*****03FEB76**
4105+**
4106+** THIS IS THE CONTINUATION OF EXECUTE I/O AFTER THE INTERRUPT
4107+** HAS BEEN SERVICED. THE EXERCISER FINDS AN INTERRUPT HAS BEEN
4108+** RECEIVED AND BRANCHES HERE TO CHECK FOR ANY ERROR CONDITIONS.
4109+**
4110+**
00396A 4CA4
00396C 6AC0 0002
003970 4CA8
003972 1006
003974 4C2A
003976 1002
003978 68D2 0000
00397C 4C69
00397E 5601
003980 4C21
003982 100D
003984 C520 3637
003988 F502
00398A 1003
00398C F506
00398E 68D1 0000
003992 C520 3638
003996 6A00 38A4
00399A 68D2 0000
00399E CB25 3632
0039A2 5601
4111+XIOCK TBTR (R4,XE)
4112+ BN (R6,2)
4113+ TBTR (R4,CS)
4114+ JOFF XIOCV
4115+ TBT (R4,CE)
4116+ JOFF XIOCO
4117+ B (R6)*
4118+XIOCO TBTS (R4,CSA)
4119+ BXS (R6,2)
4120+XIOCV TBT (R4,ER)
4121+ JOFF XIOCX
4122+**
4123+ MVB $IOIN+1,R5
4124+ CBI 2,R5
4125+ JE XIOCV
4126+ CBI 6,R5
4127+ BNE (R6)*
4128+XIOCV MVB $ISB,R5
4129+ BN XIOCS-4
4130+ B (R6)*
4131+XIOCK MVWZ OPTN3,R3
4132+ BXS (R6,2)
4133+**
4134+** I/O PARAMETER LIST
4135+**
0039A4 19D0
0039A6 3908
0039A8 0000
0039AA 0000
0039AC 0000
0039AE 0000
4136+IOBLK DC A(DEVADD)
4137+ DC A(XIOER)
4138+IODCB DC A(*-*)
4139+IOMOD DC A(*-*)
4140+ DC A(*-*)
4141+IORSR DC A(*-*)
4142+**
4143+** INTERRUPT CONTROL BLOCK FOR I/O COMMANDS
4144+**
4145+INTBL DC A(DEVADD)
4146+ DC A(INTOK)
4147+ DC A(INTERR)
4148+INTCC DC A(0003)
4150+*****11MAY76**
4151+**
4152+** SUBROUTINE
4153+**
4154+** CONNECT INTERRUPT CONTROL BLOCK & PREPARE DEVICE
4155+**
4156+** PURPOSE
4157+**
4158+** TO CONNECT THE INTERRUPT CONTROL BLOCK TO THIS DEVICE AND
4159+** PREPARE ON THE DESIRED INTERRUPT LEVEL AND TO ALLOW THE DEVICE
4160+** TO INTERRUPT.
4161+**
4162+** CALLING SEQUENCE
4163+**
4164+** THIS SUBROUTINE HAS THE FOLLOWING ENTRIES:
4165+**
4166+** --> BAL $CONC,R6
4167+** --> BAL $CONP,R6
4168+**
4169+** RETURN CONTROL
4170+**
4171+**
4172+** OR BXS (R6,2)
4173+** B (R6)*
4174+*****
4175+MVB 6,R7
4176+ MVB 0,R3
4177+ MVA DEV1,R5
4178+ PPN R3,(R5)
4179+ MVWZ OPTN3,R3
4180+ MVA INTBL,R7
4181+ SVC CICC
4182+ BN (R6)*
4183+**
4184+MVA $INTL,IODCB
4185+ MVA IOBLK,R7
4186+ MVWI X'0708',$IOIN
4187+ MVWZ $ISB,R3
4188+ MVW R6,ISTIO
4189+ SVC PREP
4190+ BXS (R6,2)
4192+*****06APF76**
4193+**
4194+** SUBROUTINE

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LOCTR OBJECT TEXT          STMT SOURCE STATEMENT          COPYRIGHT IBM CORP 1976
4195+**
4196+** DISCONNECT THE INTERRUPT CONTROL BLOCK AND LOG ERRORS
4197+**
4198+** PURPOSE
4199+**
4200+** DISCONNECT THE INTERRUPT CONTROL BLOCK TO THIS DEVICE AND
4201+** SET THE 'NO GOOD' CONTROL BIT THEN LOG THE DATA THAT HAS
4202+** BEEN FOUND TO HELP THE OPERATOR DEFINE THE ERROR CONDITION.
4203+**
4204+** CALLING SEQUENCE
4205+**
4206+** THIS SUBROUTINE HAS THE FOLLOWING ENTRIES:
4207+**
4208+** --> B $ERRS
4209+** --> B $CONX
4210+**
4211+** RETURN CONTROL
4212+**
4213+** B TURTN*
4214+** OR B (R6)*
4215+**
4216+*****
4217+MVB X'8000',TUSTATUS
4218+ MVA HEBLK,R7
4219+ SVC HTOE
4220+ MVWI X'4040',TUWORK+116
4221+ MVWI X'4040',TUWORK+118
4222+ MVWI X'4040',TUWORK+120
4223+MVB 4,R5
4224+ MVA TUWRK,R3
4225+ MVA R3,BUFST
4226+ MVA LINE1,R1
4227+ MVB 4,R7
4228+ MVB 8,R6
4229+MVBUF MVFN (R3),(R1)
4230+ MVB 4,R7
4231+ MVB X'40',R2
4232+ MVB R2,(R1)+
4233+ JCT MVBUF,R6
4234+ MVB 8,R6
4235+ MVA 4,R1
4236+ MVA MVBUF,R5
4237+ MVWI PIDS610,PID+2
4238+ MVA FAKETU,@DCADD1
4239+ MVA DC2PT,@DCADD2
4240+ MVA BIT0080,SUPSTAT
4241+ MVA $TUID,R3
4242+ BAL TUMSGWTR*,R7
4243+**
4244+MVB $CONX EQU *
4245+ MVB DEVADD,R7
4246+ SVC RICB
4247+ B TURTN*
4248+**
4249+BEGIN DC A(0009)
4250+ DC A(0008)
4251+ DC C'**ABORT'
4252+ DC A(0040)
4253+ DC C'TUID IOIN ISB INST
4254+ DC A(0040)
4255+LINE1 DC C'
4256+ DC A(0040)
4257+ DC C'CNTRL DCB1 DCB2 DCB3
4258+ DC A(0040)
4259+LINE2 DC C'
4260+ DC A(0040)
4261+ DC C'CS-0 CS-1 CS-2 CS-3
4262+ DC A(0040)
4263+LINE3 DC C'
4264+ DC A(0040)
4265+ DC C'CS-8 CS-9 CS-A CS-B
4266+ DC A(0040)
4267+LINE4 DC C'
4268+**
4269+BUFPT DC A(*-*)
4270+DC2PT DC A(BEGIN)
4271+FIXTU DC X'0101'
4272+FAKETU DC X'0101'
4273+PIDS610 EQU X'0101'
4274+BIT0080 EQU X'0080'
4275+**
4276+** DATA CONTROL BLOCK FOR CONVERTING HEX TO EBCDIC
4277+**
4278+HEBLK DC A(58)
4279+ DC A($TUID)
4280+ DC A(TUWORK)
4281+ COPY T7A10
4282+ T7A10 TUIT
4283+*****06PEB76**
4284+**
4285+** TEST UNIT
4286+**
4287+** ERROR HALT CODE/DIAG SENSE BYTE CHECK
4288+**
4289+** PURPOSE
4290+**
4291+** TO MOVE THE ERFOR HALT CODE, STATUS BYTE, AND DIAG BYTES 1,2,3
4292+** TO THE TU RESULTS BUFFER (TURESUL).
4293+**
4294+** MDI=$TUXX,T7A10,01,0708,EQ
4295+**
4296+** TURESUL BIT(S) 0-7
4297+** 8-15
4298+** 16-23
4299+** 24-31
4300+** 32-39
4301+** 48-55
4302+** 56-63
4303+** 64-71
4304+** 72-79
4305+** 80-87
4306+**
4307+** CALLING SEQUENCE
4308+**

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LOCTR OBJECT TEXT

STMT SOURCE STATEMENT

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4309+      MVW  TUWORK,TURESUL  MOVE ERROR HALT CODE & STATUS BYTES
4310+      MVD  TUWORK+6,TURESUL+2 SINGLE SHOT BYTES 1, 2, AND 3
4311+      MVD  TUWORK+10,TURESUL+6 MULTISAMPLE BYTES 1, 2, AND 3
4312+*    RETURN CONTROL
4313+*    RETURN TO MDI SUPERVISOR
4314+*
4315+*    B      TURTN*
4316+*
4317+*****
4318+T7A10 MVW  R7,TURTN      SAVE RETURN ADDRESS
4319+      MVWI X'7A10', $TUID  SAVE TU ID FOR DISPLAY
4320+      MVA  OPTN1,R4      SET UP POINTER ADRS IN R4
4321+      FAL  $CONC,R6      CLEAR DEV DEP STG AND CONNECT I/O PL
4322+      DC   A($ERR$)      ERROR ADRS FOR INVALID PREP
4323+*
4324+      MVD  TUWORK+2,TURESUL+10 MOVE ERROR WORDS 4,5
4325+      MVB  TUWORK+13,TURESUL+5 MOVE WRAP CHECK RESULTS
4326+      TXIT
4327+      B      $CONX
4328+*****
4330      END

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003BC2 6F0D 3676
003BC6 4020 3634 7A10
003BCC 4424 362E
003BD0 6E03 39B8
003BD4 39EC
003BD6 9028 181C 18D2
003BDC 8028 1827 18CD
003BE2 6802 3A4E
000000

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DECLARED NAME      ATTRIBUTES AND REFERENCES
4175 $CONC          ADDRESS. HEX LOCATION(000039B8) IN CSECT(I7A21 ) LENGTH(2)
4244 $CONX          ADDRESS. HEX LOCATION(00003A4E) IN CSECT(I7A21 ) LENGTH(1)
4217 $ERR$         ADDRESS. HEX LOCATION(000039EC) IN CSECT(I7A21 ) LENGTH(6)
2881 $INTL         ADDRESS. HEX LOCATION(00003674) IN CSECT(I7A21 ) LENGTH(2)
2846 $IOIN         ADDRESS. HEX LOCATION(00003636) IN CSECT(I7A21 ) LENGTH(2)
2847 $ISB          ADDRESS. HEX LOCATION(00003638) IN CSECT(I7A21 ) LENGTH(2)
2831 $LE           ABSOLUTE. HEX VALUE(00000026)
2845 $TUID         ADDRESS. HEX LOCATION(00003634) IN CSECT(I7A21 ) LENGTH(2)
3294 $WRT1        ADDRESS. HEX LOCATION(00003870) IN CSECT(I7A21 ) LENGTH(2)
42      @CALL      ABSOLUTE. HEX VALUE(00000201)
102    @DCADD1    ADDRESS. HEX LOCATION(000019B8) IN CSECT(I7A21 ) LENGTH(1)
103    @DCADD2    ADDRESS. HEX LOCATION(000019BA) IN CSECT(I7A21 ) LENGTH(1)
39      @FIXT     ABSOLUTE. HEX VALUE(00000101)
1074  1175  1123  1131  1134  1137  1140  1221  1224
1275  1278  1293  1308  1311  1326  1329  1356  1383
1422  1425  1428  1431  1458  1461  1464  1503  1518
1521  1524  1527  1530  1533  1620  1623  1626  1641
1644  1647  1650  1665  1680  1695  1698  1749  1752
1767  1770  1797  1800  1815  1830  1833  1848  1851
1854  1959  1986  1989  2004  2007  2010  2013  2052
2055  2082  2085  2088  2103  2118  2121  2184  2187
2202  2205  2208  2271  2274  2277  2280  2283  2286
2325  2340  2355  2358  2361  2364  2415  2466  2493
2496  2499  2514  2517  2532  2535  2538  2553  2556
2571  2574  2589  2592  2595
41      @GOTO     ABSOLUTE. HEX VALUE(00000200)
45      @TUXX     ABSOLUTE. HEX VALUE(00000500)
972   984   1002  1020  1038  1050  1062  1077  1089
1101  1113  1143  1155  1167  1185  1197  1209  1227
1239  1251  1263  1281  1296  1314  1332  1344  1359
1371  1386  1398  1410  1434  1446  1467  1479  1491
1506  1536  1548  1560  1572  1584  1596  1608  1629
1653  1668  1683  1701  1713  1725  1737  1755  1773
1785  1803  1818  1836  1857  1869  1887  1899  1911
1923  1935  1947  1962  1974  1992  2016  2028  2040
2058  2070  2091  2106  2124  2136  2148  2160  2172
2190  2211  2227  2235  2247  2259  2289  2301  2313
2328  2341  2357  2379  2391  2403  2418  2430  2442
2454  2469  2481  2502  2520  2541  2559  2577
4249 BEGIN        ADDRESS. HEX LOCATION(00003A58) IN CSECT(I7A21 ) LENGTH(2)
4274 BIT0080      ABSOLUTE. HEX VALUE(00000080)
4269 BUFPT       ADDRESS. HEX LOCATION(00003BB4) IN CSECT(I7A21 ) LENGTH(2)
2835 CE          ABSOLUTE. HEX VALUE(0000002A)
2920 CICB        ABSOLUTE. HEX VALUE(00000014)
3017 CLDCB       ADDRESS. HEX LOCATION(00003696) IN CSECT(I7A21 ) LENGTH(2)
2833 CS          ABSOLUTE. HEX VALUE(00000028)
2834 CSA         ABSOLUTE. HEX VALUE(00000029)
2864 CSBUF       ADDRESS. HEX LOCATION(00003654) IN CSECT(I7A21 ) LENGTH(1)
3055 CSDCB       ADDRESS. HEX LOCATION(000036D6) IN CSECT(I7A21 ) LENGTH(2)
2854 DCBUF       ADDRESS. HEX LOCATION(00003644) IN CSECT(I7A21 ) LENGTH(1)
4270 DC2PT       ADDRESS. HEX LOCATION(00003BB6) IN CSECT(I7A21 ) LENGTH(2)
105 DEVADD       ADDRESS. HEX LOCATION(000019D0) IN CSECT(I7A21 ) LENGTH(1)
2849 DEV1        ADDRESS. HEX LOCATION(0000363C) IN CSECT(I7A21 ) LENGTH(2)
2852 DEV4        ADDRESS. HEX LOCATION(00003642) IN CSECT(I7A21 ) LENGTH(2)
3006 DGDCB       ADDRESS. HEX LOCATION(00003686) IN CSECT(I7A21 ) LENGTH(2)
67 DUMMY        ABSOLUTE. HEX VALUE(00000000)
2598 ENTPT       ADDRESS. HEX LOCATION(000033D8) IN CSECT(I7A21 ) LENGTH(1)
47 EQ           ABSOLUTE. HEX VALUE(00000000)
2826 ER          ABSOLUTE. HEX VALUE(00000021)
2906 EXIT        ABSOLUTE. HEX VALUE(00000006)
4272 FAKETU      ADDRESS. HEX LOCATION(00003BBA) IN CSECT(I7A21 ) LENGTH(2)
2648 F00031      ADDRESS. HEX LOCATION(00003444) IN CSECT(I7A21 ) LENGTH(1)
2636 F00033      ADDRESS. HEX LOCATION(0000341A) IN CSECT(I7A21 ) LENGTH(1)
2704 F00044      ADDRESS. HEX LOCATION(00003508) IN CSECT(I7A21 ) LENGTH(1)
2676 F00045      ADDRESS. HEX LOCATION(000034A6) IN CSECT(I7A21 ) LENGTH(1)
2644 F00047      ADDRESS. HEX LOCATION(00003436) IN CSECT(I7A21 ) LENGTH(1)
2672 F00052      ADDRESS. HEX LOCATION(00003498) IN CSECT(I7A21 ) LENGTH(1)
2620 F00076      ADDRESS. HEX LOCATION(000033E2) IN CSECT(I7A21 ) LENGTH(1)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
2624	F00077	997 ADDRESS. HEX LOCATION (000033F0) IN CSECT (I7A21 ) LENGTH (1)
2628	F00078	1015 ADDRESS. HEX LOCATION (000033FE) IN CSECT (I7A21 ) LENGTH (1)
2632	F00079	1033 ADDRESS. HEX LOCATION (0000340C) IN CSECT (I7A21 ) LENGTH (1)
2640	F00080	1075 ADDRESS. HEX LOCATION (00003428) IN CSECT (I7A21 ) LENGTH (1)
2652	F00081	1129 1135 1798 ADDRESS. HEX LOCATION (00003452) IN CSECT (I7A21 ) LENGTH (1)
2656	F00082	1141 ADDRESS. HEX LOCATION (00003460) IN CSECT (I7A21 ) LENGTH (1)
2660	F00083	1180 ADDRESS. HEX LOCATION (0000346E) IN CSECT (I7A21 ) LENGTH (1)
2664	F00084	1225 1294 1327 ADDRESS. HEX LOCATION (0000347C) IN CSECT (I7A21 ) LENGTH (1)
2668	F00085	1276 1312 1384 1423 1432 1465 1816 2518 ADDRESS. HEX LOCATION (0000348A) IN CSECT (I7A21 ) LENGTH (1)
2680	F00086	1279 1330 1519 1528 1624 1627 ADDRESS. HEX LOCATION (000034B4) IN CSECT (I7A21 ) LENGTH (1)
2684	F00087	1531 ADDRESS. HEX LOCATION (000034C2) IN CSECT (I7A21 ) LENGTH (1)
2688	F00088	1534 2554 ADDRESS. HEX LOCATION (000034D0) IN CSECT (I7A21 ) LENGTH (1)
2692	F00089	1648 1681 1699 ADDRESS. HEX LOCATION (000034DE) IN CSECT (I7A21 ) LENGTH (1)
2696	F00090	1651 1696 ADDRESS. HEX LOCATION (000034EC) IN CSECT (I7A21 ) LENGTH (1)
2700	F00091	1666 2497 ADDRESS. HEX LOCATION (000034FA) IN CSECT (I7A21 ) LENGTH (1)
2756	F00092	1750 ADDRESS. HEX LOCATION (000035BE) IN CSECT (I7A21 ) LENGTH (1)
2752	F00093	2209 ADDRESS. HEX LOCATION (000035B0) IN CSECT (I7A21 ) LENGTH (1)
2748	F00094	2203 2416 2590 ADDRESS. HEX LOCATION (000035A2) IN CSECT (I7A21 ) LENGTH (1)
2744	F00095	2188 2275 2287 ADDRESS. HEX LOCATION (00003594) IN CSECT (I7A21 ) LENGTH (1)
2708	F00096	2122 ADDRESS. HEX LOCATION (00003516) IN CSECT (I7A21 ) LENGTH (1)
2768	F00097	1771 ADDRESS. HEX LOCATION (000035E8) IN CSECT (I7A21 ) LENGTH (1)
2716	F00098	2362 2536 2539 ADDRESS. HEX LOCATION (00003532) IN CSECT (I7A21 ) LENGTH (1)
2720	F00099	1852 ADDRESS. HEX LOCATION (00003540) IN CSECT (I7A21 ) LENGTH (1)
2724	F00100	1855 ADDRESS. HEX LOCATION (0000354E) IN CSECT (I7A21 ) LENGTH (1)
2784	F00102	1882 ADDRESS. HEX LOCATION (00003620) IN CSECT (I7A21 ) LENGTH (1)
2712	F00103	2596 ADDRESS. HEX LOCATION (00003524) IN CSECT (I7A21 ) LENGTH (1)
2728	F00104	1801 2005 ADDRESS. HEX LOCATION (0000355C) IN CSECT (I7A21 ) LENGTH (1)
2732	F00106	2008 2056 2083 ADDRESS. HEX LOCATION (0000356A) IN CSECT (I7A21 ) LENGTH (1)
2736	F00107	2011 ADDRESS. HEX LOCATION (00003578) IN CSECT (I7A21 ) LENGTH (1)
2740	F00108	2014 ADDRESS. HEX LOCATION (00003586) IN CSECT (I7A21 ) LENGTH (1)
2764	F00109	2053 ADDRESS. HEX LOCATION (000035DA) IN CSECT (I7A21 ) LENGTH (1)
2772	F00110	2359 2593 ADDRESS. HEX LOCATION (000035F6) IN CSECT (I7A21 ) LENGTH (1)
2760	F00111	2365 ADDRESS. HEX LOCATION (000035CC) IN CSECT (I7A21 ) LENGTH (1)
2780	F00112	2281 2284 ADDRESS. HEX LOCATION (00003612) IN CSECT (I7A21 ) LENGTH (1)
2776	F00113	2575 ADDRESS. HEX LOCATION (00003604) IN CSECT (I7A21 ) LENGTH (1)
4278	HEBLK	2557 ADDRESS. HEX LOCATION (00003BBC) IN CSECT (I7A21 ) LENGTH (2)
2926	HTOE	4218 ABSOLUTE. HEX VALUE (0000001A)
2902	IDLE	4219 ABSOLUTE. HEX VALUE (00000002)
3147	ID00	3964 3966 ADDRESS. HEX LOCATION (00003770) IN CSECT (I7A21 ) LENGTH (2)
2828	IN	3128 3236 ABSOLUTE. HEX VALUE (00000023)
4145	INTBL	3283 3950 3962 4083 ADDRESS. HEX LOCATION (000039B0) IN CSECT (I7A21 ) LENGTH (2)
4040	INTER	4180 ADDRESS. HEX LOCATION (00003914) IN CSECT (I7A21 ) LENGTH (2)
4049	INTES	4147 ADDRESS. HEX LOCATION (0000392C) IN CSECT (I7A21 ) LENGTH (2)
4053	INTET	4044 ADDRESS. HEX LOCATION (00003934) IN CSECT (I7A21 ) LENGTH (2)
4080	INTOK	4050 ADDRESS. HEX LOCATION (00003938) IN CSECT (I7A21 ) LENGTH (2)
63	INTRNL	4146 ABSOLUTE. HEX VALUE (00000000)
4102	INTRX	1000 ADDRESS. HEX LOCATION (00003968) IN CSECT (I7A21 ) LENGTH (2)
4083	INTR1	4097 4100 ADDRESS. HEX LOCATION (00003940) IN CSECT (I7A21 ) LENGTH (2)
4088	INTR2	4048 4052 4054 ADDRESS. HEX LOCATION (0000394E) IN CSECT (I7A21 ) LENGTH (1)
4096	INTR3	4085 ADDRESS. HEX LOCATION (0000395C) IN CSECT (I7A21 ) LENGTH (2)
4136	IOBLK	4093 ADDRESS. HEX LOCATION (000039A4) IN CSECT (I7A21 ) LENGTH (2)
4138	IODCB	3286 3951 4185 ADDRESS. HEX LOCATION (000039A8) IN CSECT (I7A21 ) LENGTH (2)
4139	IOMOD	3220 3223 3226 3234 3245 3248 3251 3254 3262 3266 3270 3297 3300 3933 3939 4104 ADDRESS. HEX LOCATION (000039AA) IN CSECT (I7A21 ) LENGTH (2)
37	I7A21	3287 3288 3925 3928 3934 CSECT. START (00002500) LENGTH (5862) ESDID (1)
4255	LINE1	37 ADDRESS. HEX LOCATION (00003A90) IN CSECT (I7A21 ) LENGTH (40)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
2848	LSTIO	4226 ADDRESS. HEX LOCATION (0000363A) IN CSECT (I7A21 ) LENGTH (2)
2825	MI	3273 3937 4188 ABSOLUTE. HEX VALUE (00000020)
4229	MVBUP	4098 ADDRESS. HEX LOCATION (00003A1C) IN CSECT (I7A21 ) LENGTH (2)
2837	NG	4233 4236 ABSOLUTE. HEX VALUE (0000002C)
2832	NI	4101 ABSOLUTE. HEX VALUE (00000027)
972	N00001	3956 ADDRESS. HEX LOCATION (00002864) IN CSECT (I7A21 ) LENGTH (2)
984	N00002	315 2608 ADDRESS. HEX LOCATION (00002876) IN CSECT (I7A21 ) LENGTH (2)
996	N00003	318 ADDRESS. HEX LOCATION (00002888) IN CSECT (I7A21 ) LENGTH (2)
1002	N00004	321 ADDRESS. HEX LOCATION (00002894) IN CSECT (I7A21 ) LENGTH (2)
1014	N00005	324 985 ADDRESS. HEX LOCATION (000028AE) IN CSECT (I7A21 ) LENGTH (2)
1020	N00006	327 ADDRESS. HEX LOCATION (000028BA) IN CSECT (I7A21 ) LENGTH (2)
1032	N00007	330 1003 ADDRESS. HEX LOCATION (000028CC) IN CSECT (I7A21 ) LENGTH (2)
1038	N00008	333 ADDRESS. HEX LOCATION (000028D8) IN CSECT (I7A21 ) LENGTH (2)
1050	N00009	336 1021 ADDRESS. HEX LOCATION (000028EA) IN CSECT (I7A21 ) LENGTH (2)
1062	N00010	339 ADDRESS. HEX LOCATION (00002902) IN CSECT (I7A21 ) LENGTH (2)
1074	N00011	342 ADDRESS. HEX LOCATION (00002914) IN CSECT (I7A21 ) LENGTH (2)
1077	N00012	345 ADDRESS. HEX LOCATION (00002918) IN CSECT (I7A21 ) LENGTH (2)
1089	N00013	348 1063 ADDRESS. HEX LOCATION (0000292A) IN CSECT (I7A21 ) LENGTH (2)
1101	N00014	351 ADDRESS. HEX LOCATION (00002940) IN CSECT (I7A21 ) LENGTH (2)
1113	N00015	354 ADDRESS. HEX LOCATION (0000295E) IN CSECT (I7A21 ) LENGTH (2)
1125	N00016	357 ADDRESS. HEX LOCATION (00002978) IN CSECT (I7A21 ) LENGTH (2)
1128	N00017	360 ADDRESS. HEX LOCATION (0000297C) IN CSECT (I7A21 ) LENGTH (2)
1131	N00018	363 1114 ADDRESS. HEX LOCATION (00002980) IN CSECT (I7A21 ) LENGTH (2)
1134	N00019	366 1102 ADDRESS. HEX LOCATION (00002984) IN CSECT (I7A21 ) LENGTH (2)
1137	N00020	369 1090 ADDRESS. HEX LOCATION (00002988) IN CSECT (I7A21 ) LENGTH (2)
1140	N00021	372 1078 ADDRESS. HEX LOCATION (0000298C) IN CSECT (I7A21 ) LENGTH (2)
1143	N00022	375 1051 ADDRESS. HEX LOCATION (00002990) IN CSECT (I7A21 ) LENGTH (2)
1155	N00023	378 1039 ADDRESS. HEX LOCATION (000029AA) IN CSECT (I7A21 ) LENGTH (2)
1167	N00024	381 ADDRESS. HEX LOCATION (000029C4) IN CSECT (I7A21 ) LENGTH (2)
1179	N00025	384 ADDRESS. HEX LOCATION (000029C4) IN CSECT (I7A21 ) LENGTH (2)
1185	N00026	387 ADDRESS. HEX LOCATION (000029DE) IN CSECT (I7A21 ) LENGTH (2)
1197	N00027	390 1168 ADDRESS. HEX LOCATION (000029EA) IN CSECT (I7A21 ) LENGTH (2)
1209	N00028	393 ADDRESS. HEX LOCATION (00002A04) IN CSECT (I7A21 ) LENGTH (2)
1221	N00029	396 ADDRESS. HEX LOCATION (00002A1E) IN CSECT (I7A21 ) LENGTH (2)
1224	N00030	399 ADDRESS. HEX LOCATION (00002A3A) IN CSECT (I7A21 ) LENGTH (2)
1227	N00031	402 1210 ADDRESS. HEX LOCATION (00002A3E) IN CSECT (I7A21 ) LENGTH (2)
1239	N00032	405 1198 ADDRESS. HEX LOCATION (00002A56) IN CSECT (I7A21 ) LENGTH (2)
1251	N00033	408 ADDRESS. HEX LOCATION (00002A6E) IN CSECT (I7A21 ) LENGTH (2)
1263	N00034	411 ADDRESS. HEX LOCATION (00002A88) IN CSECT (I7A21 ) LENGTH (2)
1275	N00035	414 ADDRESS. HEX LOCATION (00002AA0) IN CSECT (I7A21 ) LENGTH (2)
1278	N00036	417 ADDRESS. HEX LOCATION (00002AA4) IN CSECT (I7A21 ) LENGTH (2)
1281	N00037	420 1264 ADDRESS. HEX LOCATION (00002AA8) IN CSECT (I7A21 ) LENGTH (2)
1293	N00038	423 1252 ADDRESS. HEX LOCATION (00002AC0) IN CSECT (I7A21 ) LENGTH (2)
1296	N00039	426 ADDRESS. HEX LOCATION (00002AC4) IN CSECT (I7A21 ) LENGTH (2)
1308	N00040	429 1282 ADDRESS. HEX LOCATION (00002ADC) IN CSECT (I7A21 ) LENGTH (2)
1311	N00041	432 ADDRESS. HEX LOCATION (00002AE0) IN CSECT (I7A21 ) LENGTH (2)
1314	N00042	435 1297 ADDRESS. HEX LOCATION (00002AE4) IN CSECT (I7A21 ) LENGTH (2)
1326	N00043	438 1240 ADDRESS. HEX LOCATION (00002AFC) IN CSECT (I7A21 ) LENGTH (2)
1329	N00044	441 ADDRESS. HEX LOCATION (00002B00) IN CSECT (I7A21 ) LENGTH (2)
1332	N00045	444 1315 ADDRESS. HEX LOCATION (00002B04) IN CSECT (I7A21 ) LENGTH (2)
1344	N00046	447 1228 ADDRESS. HEX LOCATION (00002B1C) IN CSECT (I7A21 ) LENGTH (2)
1356	N00047	450 ADDRESS. HEX LOCATION (00002B34) IN CSECT (I7A21 ) LENGTH (2)
1359	N00048	453 ADDRESS. HEX LOCATION (00002B38) IN CSECT (I7A21 ) LENGTH (2)
1371	N00049	456 1345 ADDRESS. HEX LOCATION (00002B50) IN CSECT (I7A21 ) LENGTH (2)
1383	N00050	459 ADDRESS. HEX LOCATION (00002B68) IN CSECT (I7A21 ) LENGTH (2)



DECLARED	NAME	ATTRIBUTES AND REFERENCES
2208	N00162	ADDRESS. HEX LOCATION(00003116) IN CSECT(I7A21 ) LENGTH(2)
2211	N00163	ADDRESS. HEX LOCATION(0000311A) IN CSECT(I7A21 ) LENGTH(2)
2223	N00164	ADDRESS. HEX LOCATION(00003134) IN CSECT(I7A21 ) LENGTH(2)
2235	N00165	ADDRESS. HEX LOCATION(0000314C) IN CSECT(I7A21 ) LENGTH(2)
2247	N00166	ADDRESS. HEX LOCATION(00003164) IN CSECT(I7A21 ) LENGTH(2)
2259	N00167	ADDRESS. HEX LOCATION(0000317E) IN CSECT(I7A21 ) LENGTH(2)
2271	N00168	ADDRESS. HEX LOCATION(00003198) IN CSECT(I7A21 ) LENGTH(2)
2274	N00169	ADDRESS. HEX LOCATION(0000319C) IN CSECT(I7A21 ) LENGTH(2)
2277	N00170	ADDRESS. HEX LOCATION(000031A0) IN CSECT(I7A21 ) LENGTH(2)
2280	N00171	ADDRESS. HEX LOCATION(000031A4) IN CSECT(I7A21 ) LENGTH(2)
2283	N00172	ADDRESS. HEX LOCATION(000031A8) IN CSECT(I7A21 ) LENGTH(2)
2286	N00173	ADDRESS. HEX LOCATION(000031AC) IN CSECT(I7A21 ) LENGTH(2)
2289	N00174	ADDRESS. HEX LOCATION(000031B0) IN CSECT(I7A21 ) LENGTH(2)
2301	N00175	ADDRESS. HEX LOCATION(000031C2) IN CSECT(I7A21 ) LENGTH(2)
2313	N00176	ADDRESS. HEX LOCATION(000031DA) IN CSECT(I7A21 ) LENGTH(2)
2325	N00177	ADDRESS. HEX LOCATION(000031EC) IN CSECT(I7A21 ) LENGTH(2)
2328	N00178	ADDRESS. HEX LOCATION(000031F0) IN CSECT(I7A21 ) LENGTH(2)
2340	N00179	ADDRESS. HEX LOCATION(0000320A) IN CSECT(I7A21 ) LENGTH(2)
2343	N00180	ADDRESS. HEX LOCATION(0000320E) IN CSECT(I7A21 ) LENGTH(2)
2355	N00181	ADDRESS. HEX LOCATION(0000322C) IN CSECT(I7A21 ) LENGTH(2)
2358	N00182	ADDRESS. HEX LOCATION(00003230) IN CSECT(I7A21 ) LENGTH(2)
2361	N00183	ADDRESS. HEX LOCATION(00003234) IN CSECT(I7A21 ) LENGTH(2)
2364	N00184	ADDRESS. HEX LOCATION(00003238) IN CSECT(I7A21 ) LENGTH(2)
2367	N00185	ADDRESS. HEX LOCATION(0000323C) IN CSECT(I7A21 ) LENGTH(2)
2379	N00186	ADDRESS. HEX LOCATION(00003256) IN CSECT(I7A21 ) LENGTH(2)
2391	N00187	ADDRESS. HEX LOCATION(0000326E) IN CSECT(I7A21 ) LENGTH(2)
2403	N00188	ADDRESS. HEX LOCATION(00003288) IN CSECT(I7A21 ) LENGTH(2)
2415	N00189	ADDRESS. HEX LOCATION(0000329A) IN CSECT(I7A21 ) LENGTH(2)
2418	N00190	ADDRESS. HEX LOCATION(0000329E) IN CSECT(I7A21 ) LENGTH(2)
2430	N00191	ADDRESS. HEX LOCATION(000032BC) IN CSECT(I7A21 ) LENGTH(2)
2442	N00192	ADDRESS. HEX LOCATION(000032D4) IN CSECT(I7A21 ) LENGTH(2)
2454	N00193	ADDRESS. HEX LOCATION(000032EC) IN CSECT(I7A21 ) LENGTH(2)
2466	N00194	ADDRESS. HEX LOCATION(000032FE) IN CSECT(I7A21 ) LENGTH(2)
2469	N00195	ADDRESS. HEX LOCATION(00003302) IN CSECT(I7A21 ) LENGTH(2)
2481	N00196	ADDRESS. HEX LOCATION(0000331C) IN CSECT(I7A21 ) LENGTH(2)
2493	N00197	ADDRESS. HEX LOCATION(0000332E) IN CSECT(I7A21 ) LENGTH(2)
2496	N00198	ADDRESS. HEX LOCATION(00003332) IN CSECT(I7A21 ) LENGTH(2)
2499	N00199	ADDRESS. HEX LOCATION(00003336) IN CSECT(I7A21 ) LENGTH(2)
2502	N00200	ADDRESS. HEX LOCATION(0000333A) IN CSECT(I7A21 ) LENGTH(2)
2514	N00201	ADDRESS. HEX LOCATION(00003352) IN CSECT(I7A21 ) LENGTH(2)
2517	N00202	ADDRESS. HEX LOCATION(00003356) IN CSECT(I7A21 ) LENGTH(2)
2520	N00203	ADDRESS. HEX LOCATION(0000335A) IN CSECT(I7A21 ) LENGTH(2)
2532	N00204	ADDRESS. HEX LOCATION(0000336C) IN CSECT(I7A21 ) LENGTH(2)
2535	N00205	ADDRESS. HEX LOCATION(00003370) IN CSECT(I7A21 ) LENGTH(2)
2538	N00206	ADDRESS. HEX LOCATION(00003374) IN CSECT(I7A21 ) LENGTH(2)
2541	N00207	ADDRESS. HEX LOCATION(00003378) IN CSECT(I7A21 ) LENGTH(2)
2553	N00208	ADDRESS. HEX LOCATION(00003390) IN CSECT(I7A21 ) LENGTH(2)
2556	N00209	ADDRESS. HEX LOCATION(00003394) IN CSECT(I7A21 ) LENGTH(2)
2559	N00210	ADDRESS. HEX LOCATION(00003398) IN CSECT(I7A21 ) LENGTH(2)
2571	N00211	ADDRESS. HEX LOCATION(000033B0) IN CSECT(I7A21 ) LENGTH(2)
2574	N00212	ADDRESS. HEX LOCATION(000033B4) IN CSECT(I7A21 ) LENGTH(2)
2577	N00213	ADDRESS. HEX LOCATION(000033B8) IN CSECT(I7A21 ) LENGTH(2)
2589	N00214	ADDRESS. HEX LOCATION(000033CA) IN CSECT(I7A21 ) LENGTH(2)
2592	N00215	ADDRESS. HEX LOCATION(000033CE) IN CSECT(I7A21 ) LENGTH(2)
2595	N00216	ADDRESS. HEX LOCATION(000033D2) IN CSECT(I7A21 ) LENGTH(2)
58	OP	ABSOLUTE. HEX VALUE(00000202)

DECLARED	NAME	ATTRIBUTES AND REFERENCES
		1023 1041 1053 1065 1080 1092 1104 1116 1146
		1158 1170 1188 1200 1230 1254 1299 1317 1347
		1389 1413 1437 1470 1482 1494 1509 1551 1587
		1599 1611 1632 1656 1704 1716 1728 1740 1758
		1776 1788 1806 1821 1839 1872 1938 1950 1977
		2016 2031 2043 2061 2073 2094 2109 2127 2139
		2151 2175 2193 2226 2250 2292 2304 2316 2331
		2346 2370 2394 2406 2421 2433 2445 2457 2472
		2484 2505 2523 2544 2562 2580
57	ON	ABSOLUTE. HEX VALUE(00000200)
		1005 1212 1242 1266 1284 1335 1362 1374 1401
		1449 1539 1563 1575 1671 1686 1965 2163 2214
		2238 2262 2382
2790	OPTN1	ADDRESS. HEX LOCATION(0000362E) IN CSECT(I7A21 ) LENGTH(2)
2813	OPTN3	ADDRESS. HEX LOCATION(00003632) IN CSECT(I7A21 ) LENGTH(2)
101	PARMARA	ADDRESS. HEX LOCATION(0000196E) IN CSECT(I7A21 ) LENGTH(1)
		4131 4179
		982 994 1012 1030 1048 1060 1072 1087 1099
		1111 1123 1153 1165 1177 1195 1207 1219 1237
		1249 1261 1273 1291 1306 1324 1342 1354 1369
		1381 1396 1408 1420 1444 1456 1477 1489 1501
		1516 1546 1558 1570 1582 1594 1606 1618 1639
		1663 1678 1693 1711 1723 1735 1747 1765 1783
		1795 1813 1828 1846 1867 1879 1897 1909 1921
		1933 1945 1957 1972 1984 2002 2026 2038 2050
		2068 2080 2101 2116 2134 2146 2158 2170 2182
		2200 2221 2233 2245 2257 2269 2299 2311 2323
		2338 2353 2377 2389 2401 2413 2428 2440 2452
		2464 2479 2491 2512 2530 2551 2567
69	PID	ADDRESS. HEX LOCATION(00001800) IN CSECT(I7A21 ) 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 4237
4273	PIDMSG10	ABSOLUTE. HEX VALUE(0000F1F0)
2912	PREP	ABSOLUTE. HEX VALUE(0000000C)
3088	RDDCB	ADDRESS. HEX LOCATION(00003706) IN CSECT(I7A21 ) LENGTH(2)
2919	RICB	ABSOLUTE. HEX VALUE(00000013)
3110	RKDCB	ADDRESS. HEX LOCATION(00003726) IN CSECT(I7A21 ) LENGTH(2)
3121	RMDCB	ADDRESS. HEX LOCATION(00003736) IN CSECT(I7A21 ) LENGTH(2)
3144	RSBA	ADDRESS. HEX LOCATION(00003760) IN CSECT(I7A21 ) LENGTH(2)
		3010 3026 3037 3048 3070 3081 3092 3103 3114
3033	RSDCB	ADDRESS. HEX LOCATION(000036B6) IN CSECT(I7A21 ) LENGTH(2)
		3125
0	R0	REGISTER. HEX VALUE(00000000)
0	R1	REGISTER. HEX VALUE(00000001)
0	R2	REGISTER. HEX VALUE(00000002)
0	R3	REGISTER. HEX VALUE(00000003)
		3173 3175 3227 3230 3237 3238 3241 3244 3255
		3258 3274 3277 3280 3282 3303 3304 3925 3938
		3941 3942 3945 3947 4004 4005 4006 4040 4041
		4047 4051 4080 4081 4086 4099 4131 4176 4178
		4179 4187 4224 4225 4229 4241
0	R4	REGISTER. HEX VALUE(00000004)
		3283 3284 3285 3911 3932 3935 3949 3950 3952
		3953 3956 3962 3970 4042 4043 4045 4049 4053
		4082 4083 4084 4094 4095 4096 4098 4101 4111
		4113 4115 4118 4120 4320
0	R5	REGISTER. HEX VALUE(00000005)
		3174 3175 3228 3230 3236 3238 3242 3244 3256
		3258 3275 3277 3278 3280 3302 3304 3939 3941
		3943 3945 3961 3968 4090 4091 4092 4123 4124
		4126 4128 4177 4178 4223 4236
0	R6	REGISTER. HEX VALUE(00000006)
		3176 3177 3273 3277 3957 3971 4007 4112 4117
		4119 4127 4130 4132 4182 4188 4190 4228 4233
		4234 4321
0	R7	REGISTER. HEX VALUE(00000007)
		2892 3172 3229 3235 3243 3257 3276 3279 3286
		3301 3940 3944 3951 4046 4087 4175 4180 4185
		4218 4227 4230 4242 4245 4318
2853	SCTID	ADDRESS. HEX LOCATION(0000363C) IN CSECT(I7A21 ) LENGTH(2)
3044	SKDCB	ADDRESS. HEX LOCATION(000036C6) IN CSECT(I7A21 ) LENGTH(2)
2910	START	ABSOLUTE. HEX VALUE(0000000A)
104	SUPSTAT	ADDRESS. HEX LOCATION(000019C4) IN CSECT(I7A21 ) LENGTH(1)
92	TUMSGWTR	ADDRESS. HEX LOCATION(000018BA) IN CSECT(I7A21 ) LENGTH(1)
98	TURESUL	ADDRESS. HEX LOCATION(000018CB) IN CSECT(I7A21 ) LENGTH(1)
2882	TURTN	ADDRESS. HEX LOCATION(00003676) IN CSECT(I7A21 ) LENGTH(2)
74	TUSTATUS	ADDRESS. HEX LOCATION(00001818) IN CSECT(I7A21 ) LENGTH(1)
75	TUWORK	ADDRESS. HEX LOCATION(0000181A) IN CSECT(I7A21 ) LENGTH(1)
2891	T7A02	ADDRESS. HEX LOCATION(0000367E) IN CSECT(I7A21 ) LENGTH(6)
		986 1004 1022 1040 1052 1064 1079 1091 1103
		1115 1145 1157 1169 1187 1199 1211 1229 1241
		1253 1265 1283 1298 1316 1334 1346 1361 1373
		1388 1400 1412 1436 1448 1469 1481 1493 1508
		1538 1550 1562 1574 1586 1598 1610 1631 1655
		1670 1685 1703 1715 1727 1739 1757 1775 1787
		1805 1820 1838 1859 1871 1889 1901 1913 1925
		1937 1949 1964 1976 1994 2018 2030 2042 2060
		2072 2093 2108 2126 2138 2150 2162 2174 2192
		2213 2225 2237 2249 2261 2291 2303 2315 2330

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
		2345 2369 2381 2393 2405 2420 2432 2444 2456
4318	T7A10	2471 2483 2504 2522 2543 2561 2579 ADDRESS. HEX LOCATION(00003EC2) IN CSECT(I7A21 ) LENGTH(4)
3077	VRDCB	974 ADDRESS. HEX LOCATION(000036F6) IN CSECT(I7A21 ) LENGTH(2)
3099	WKDCB	3248 ADDRESS. HEX LOCATION(00003716) IN CSECT(I7A21 ) LENGTH(2)
3066	WRDCB	3262 3263 ADDRESS. HEX LOCATION(000036E6) IN CSECT(I7A21 ) LENGTH(2)
2916	WRITO	3251 3297 ABSOLUTE. HEX VALUE(00000010)
2917	WRIT1	3292 ABSOLUTE. HEX VALUE(00000011)
3138	WRSID	3294 ADDRESS. HEX LOCATION(00003754) IN CSECT(I7A21 ) LENGTH(2)
3022	WSDCB	3029 3106 3174 3263 3267 ADDRESS. HEX LOCATION(000036A6) IN CSECT(I7A21 ) LENGTH(2)
2829	XE	3266 3267 ABSOLUTE. HEX VALUE(00000024)
2827	XI	4049 4111 ABSOLUTE. HEX VALUE(00000022)
3925	XIO	3285 3953 4096 ADDRESS. HEX LOCATION(00003896) IN CSECT(I7A21 ) LENGTH(4)
4111	XIOCK	3221 3224 3232 3239 3246 3249 3252 3260 3264 ADDRESS. HEX LOCATION(0000396A) IN CSECT(I7A21 ) LENGTH(2)
4118	XIOCO	3963 ADDRESS. HEX LOCATION(0000397C) IN CSECT(I7A21 ) LENGTH(2)
4128	XIOCO	4116 ADDRESS. HEX LOCATION(00003992) IN CSECT(I7A21 ) LENGTH(4)
3933	XIOCS	4125 ADDRESS. HEX LOCATION(000038A8) IN CSECT(I7A21 ) LENGTH(6)
4120	XIOCV	4129 ADDRESS. HEX LOCATION(00003980) IN CSECT(I7A21 ) LENGTH(2)
4131	XIOCX	4114 ADDRESS. HEX LOCATION(0000399E) IN CSECT(I7A21 ) LENGTH(4)
3928	XIODG	4121 ADDRESS. HEX LOCATION(0000389C) IN CSECT(I7A21 ) LENGTH(6)
4004	XIOER	3298 3305 ADDRESS. HEX LOCATION(00003908) IN CSECT(I7A21 ) LENGTH(2)
3937	XIO1	4137 ADDRESS. HEX LOCATION(000038B8) IN CSECT(I7A21 ) LENGTH(4)
3950	XIO2	3926 3929 ADDRESS. HEX LOCATION(000038DE) IN CSECT(I7A21 ) LENGTH(2)
3962	XIO8	3936 ADDRESS. HEX LOCATION(000038F4) IN CSECT(I7A21 ) LENGTH(2)
62	XTRNI	3293 3295 3969 ABSOLUTE. HEX VALUE(00000001)
		1018 1036 1183 1885

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