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LOCTR OBJECT TEXT      STMT SOURCE STATEMENT      COPYRIGHT IBM CORP 1976
3          COPY LOG7A22          ** MAP EC HISTORY **
4          *****
5          *
6          *          *** PREREQUISITES          ***
7          *
8          *          NONE
9          *
10         *****
11         *
12         *          *** MODIFICATIONS          ***
13         *
14         *          CHANGES MADE TO CORRECT ERRORS FOUND WHILE IN TEST
15         *
16         *****
17         *
18         *          *** REA'S INCORPORATED          ***
19         *
20         *          NONE
21         *
22         *****
23         *
24         *          *** SPECIAL INSTRUCTIONS          ***
25         *
26         *          NONE
27         *
28         *****
29         *
30         *          *** E. C. HISTORY          ***
31         *
32         *          DATE 17AUG78 DATE 02OCT78 DATE 10JAN79 DATE
33         *          E.C. 755391 E.C. 375102 E.C. 375222 E.C.
34         *
35         *****
002500     START X'2500'          START ADDRESS OF ALL 'I' TYPE PROG
000100     @QUES EQU X'0100'          EQUATED VALUE FOR MDI STATEMENT
000101     @FIXT EQU X'0101'          EQUATED VALUE FOR MDI STATEMENT
000102     @STOP EQU X'0102'          EQUATED VALUE FOR MDI STATEMENT
000200     @GOTO EQU X'0200'          EQUATED VALUE FOR MDI STATEMENT
000201     @CALL EQU X'0201'          EQUATED VALUE FOR MDI STATEMENT
000300     @INPT EQU X'0300'          EQUATED VALUE FOR MDI STATEMENT
000400     @QUXX EQU X'0400'          EQUATED VALUE FOR MDI STATEMENT
000500     @TUXX EQU X'0500'          EQUATED VALUE FOR MDI STATEMENT
000600     @NVLN EQU X'0600'          EQUATED VALUE FOR MDI STATEMENT
000700     @EQ EQU X'0004'          EQUATE FOR EQUAL
000800     @NE EQU X'0004'          EQUATE FOR NOT EQUAL
000900     @HI EQU X'0008'          EQUATE FOR HIGH
00000C     @NH EQU X'000C'          EQUATE FOR NOT HIGH
000010     @LO EQU X'0010'          EQUATE FOR LOW
000014     @NL EQU X'0014'          EQUATE FOR NOT LOW
000010     @LT EQU X'0010'          EQUATE FOR LESS THAN
00000C     @LE EQU X'000C'          EQUATE FOR LESS THAN OR EQUAL TO
000008     @GT EQU X'0008'          EQUATE FOR GREATER THAN
000014     @GE EQU X'0014'          EQUATE FOR GREATER THAN OR EQUAL TO
000200     @ON EQU X'0200'          EQUATE FOR ON
000202     @OF EQU X'0202'          EQUATE FOR OFF
000204     @MX EQU X'0204'          EQUATE FOR MIXED
000000     @EBC EQU X'0000'          EQUATE FOR EBCDIC DATA TRANSFER
000001     @HEX EQU X'0001'          EQUATE FOR HEX DATA TRANSFER
000001     @XTRNL EQU X'0001'          EQUATE FOR EXTERNAL REFERENCE
000000     @INTRNL EQU X'0000'          EQUATE FOR INTERNAL REFERENCE
000000     @PARM EQU X'0000'          EQUATE INDICATING PARAMETER
000001     @DA EQU X'0001'          EQUATE FOR DEVICE ADDRESS
000002     @UA EQU X'0002'          EQUATE FOR UNIT ADDRESS
000000     @DUMMY EQU X'0000'          DUMMY EQUATE
001800     @PID EQU *-X'0D00'          ADDRESS OF MDI HEADER
000232     @PTYPE EQU *-X'22CE'          ADDRESS OF PROCESSOR TYPE FIELD
001800     @STEPNUM EQU P1D+X'000C'          ADDRESS OF DECIMAL STEP NUMBER
00190E     @OPW1 EQU P1D+X'000E'          ADDRESS OF OPTION WORD ONE
001810     @OPW2 EQU P1D+X'0010'          ADDRESS OF OPTION WORD TWO
001818     @TUSTATUS EQU P1D+X'0018'          ADDRESS OF TU STATUS WORD
00181A     @TUWORK EQU P1D+X'001A'          ADDRESS OF TU WORK AREA
00189A     @TUPARM1 EQU P1D+X'009A'          ADDRESS OF PARM 1 POINTER
00189C     @TUPARM2 EQU P1D+X'009C'          ADDRESS OF PARM 2 POINTER
00189E     @TUPARM3 EQU P1D+X'009E'          ADDRESS OF PARM 3 POINTER
0018A0     @TUPARM4 EQU P1D+X'00A0'          ADDRESS OF PARM 4 POINTER
0018A2     @TUPARM5 EQU P1D+X'00A2'          ADDRESS OF PARM 5 POINTER
0018A4     @TUPARM6 EQU P1D+X'00A4'          ADDRESS OF PARM 6 POINTER
0018A6     @TUPARM7 EQU P1D+X'00A6'          ADDRESS OF PARM 7 POINTER
0018A8     @TUPARM8 EQU P1D+X'00A8'          ADDRESS OF PARM 8 POINTER
0018AA     @TUPARM9 EQU P1D+X'00AA'          ADDRESS OF PARM 9 POINTER
0018AC     @TUPARM10 EQU P1D+X'00AC'          ADDRESS OF PARM 10 POINTER
0018AE     @TUPARM11 EQU P1D+X'00AE'          ADDRESS OF PARM 11 POINTER
0018B0     @TUPARM12 EQU P1D+X'00B0'          ADDRESS OF PARM 12 POINTER
0018B2     @TUPARM13 EQU P1D+X'00B2'          ADDRESS OF PARM 13 POINTER
0018B4     @TUPARM14 EQU P1D+X'00B4'          ADDRESS OF PARM 14 POINTER
0018B6     @TUPARM15 EQU P1D+X'00B6'          ADDRESS OF PARM 15 POINTER
0018B8     @TUPARM16 EQU P1D+X'00B8'          ADDRESS OF PARM 16 POINTER
0018BA     @TUMSGWTR EQU P1D+X'00BA'          ADDRESS OF -> TO COMMON MSG WRITER
0018BE     @TUUA EQU P1D+X'00BE'          ADDRESS OF UNIT ADDRESS IN EBC
0018C0     @TUDA EQU P1D+X'00C0'          ADDRESS OF DEVICE ADDRESS IN EBC
0018C2     @TUBAST EQU P1D+X'00C2'          ADDRESS OF LAST USED WORD IN MAP
0018C4     @TULAST EQU P1D+X'00C4'          ADDRESS OF LAST ADDRESSABLE WORD
0018C6     @TULSULN EQU P1D+X'00C6'          ADDRESS OF LENGTH OF TU RESULTS
0018C8     @TULRESUL EQU P1D+X'00C8'          ADDRESS OF TU RESULTS FIELD
0018FC     @MAPNAME EQU P1D+X'00FC'          ADDRESS OF MAP NAME FIELD IN HEX
001948     @TUINPT EQU P1D+X'0148'          ADDRESS OF $INPT DATA
00196E     @PARMARA EQU P1D+X'016E'          ADDRESS OF $INPT INPUT AREA
0019B8     @DCADD1 EQU P1D+X'01B8'          MDI POINTER
0019BA     @DCADD2 EQU P1D+X'01BA'          MDI POINTER
0019C4     @SUPSTAT EQU P1D+X'01C4'          ADDRESS OF MDI STATUS
0019D0     @DEVADD EQU P1D+X'01D0'          ADDRESS OF DEVICE ADDRESS TABLE 0
0019DA     @DEVADD1 EQU P1D+X'01DA'          ADDRESS OF DEVICE ADDRESS TABLE 1
0019E4     @DEVADD2 EQU P1D+X'01E4'          ADDRESS OF DEVICE ADDRESS TABLE 2
0019EE     @DEVADD3 EQU P1D+X'01E6'          ADDRESS OF DEVICE ADDRESS TABLE 3
0019F8     @DEVADD4 EQU P1D+X'01F8'          ADDRESS OF DEVICE ADDRESS TABLE 4
001A02     @DEVADD5 EQU P1D+X'0202'          ADDRESS OF DEVICE ADDRESS TABLE 5
001A0C     @DEVADD6 EQU P1D+X'020C'          ADDRESS OF DEVICE ADDRESS TABLE 6
001A16     @DEVADD7 EQU P1D+X'0216'          ADDRESS OF DEVICE ADDRESS TABLE 7
113          PRINT OFF

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LOCTR OBJECT TEXT      STMT SOURCE STATEMENT      COPYRIGHT IBM CORP 1976
002500     33CE          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          *          $NVLN
278          *          A) RULE EQUATE X'0600'
279          *
280          *          ENTRY POINT TABLE
281          *          THIS TABLE CONTAINS THE ENTRY POINTS WITHIN THE MAP THAT
282          *          THE MAP CAN BE ENTERED FROM THESE ENTRY POINTS ARE
283          *          REFERENCED BY NAME AND ADDRESS. ENTRIES ARE AS FOLLOWS:
284          *
285          *          A) NAME OF ENTRY POINT
286          *          B) ADDRESS OF ENTRY POINT RULE TABLE
287          *
288          *          THE ENTRY POINT TABLE END IS INDICATED BY A X'0000'
289          *
290          *          MESSAGE TABLE
291          *          THIS TABLE CONTAINS THE MESSAGE PASSED TO THE OPERATOR
292          *          VIA THE MDI SUPERVISOR. THE TABLE IS AS FOLLOWS:
293          *
294          *          A) EQUATE FOR START OF MESSAGE BLOCK
295          *          B) NUMBER OF LINES OF MESSAGE
296          *          C) LENGTH OF FOLLOWING LINE
297          *          D) FIRST LINE OF MESSAGE
298          *          E) LENGTH OF FOLLOWING LINE
299          *          F) SECOND LINE OF MESSAGE
300          *          G) ETC.
301          *
302          *          *****
303          *          *****
304          *          *****
305          *          *****

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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	285C	315	DC AL2(N00001)	
002504	0001	316	DC XL2'0001'	
000001		317	EQU 0001	
002506	286E	318	DC AL2(N00002)	
002508	0002	319	DC XL2'0002'	
000002		320	EQU 0002	
00250A	2880	321	DC AL2(N00003)	
00250C	0003	322	DC XL2'0003'	
000003		323	EQU 0003	
00250E	288C	324	DC AL2(N00004)	
002510	0004	325	DC XL2'0004'	
000004		326	EQU 0004	
002512	28A6	327	DC AL2(N00005)	
002514	0005	328	DC XL2'0005'	
000005		329	EQU 0005	
002516	28BE	330	DC AL2(N00006)	
002518	0006	331	DC XL2'0006'	
000006		332	EQU 0006	
00251A	28D8	333	DC AL2(N00007)	
00251C	0007	334	DC XL2'0007'	
000007		335	EQU 0007	
00251E	28F0	336	DC AL2(N00008)	
002520	0008	337	DC XL2'0008'	
000008		338	EQU 0008	
002522	2908	339	DC AL2(N00009)	
002524	0009	340	DC XL2'0009'	
000009		341	EQU 0009	
002526	2920	342	DC AL2(N00010)	
002528	0010	343	DC XL2'0010'	
000010		344	EQU 0010	
00252A	2938	345	DC AL2(N00011)	
00252C	0011	346	DC XL2'0011'	
000011		347	EQU 0011	
00252E	2950	348	DC AL2(N00012)	
002530	0012	349	DC XL2'0012'	
000012		350	EQU 0012	
002532	2968	351	DC AL2(N00013)	
002534	0013	352	DC XL2'0013'	
000013		353	EQU 0013	
002536	2980	354	DC AL2(N00014)	
002538	0014	355	DC XL2'0014'	
000014		356	EQU 0014	
00253A	2984	357	DC AL2(N00015)	
00253C	0015	358	DC XL2'0015'	
000015		359	EQU 0015	
00253E	299C	360	DC AL2(N00016)	
002540	0016	361	DC XL2'0016'	
000016		362	EQU 0016	
002542	29B2	363	DC AL2(N00017)	
002544	0017	364	DC XL2'0017'	
000017		365	EQU 0017	
002546	29B6	366	DC AL2(N00018)	
002548	0018	367	DC XL2'0018'	
000018		368	EQU 0018	
00254A	29BA	369	DC AL2(N00019)	
00254C	0019	370	DC XL2'0019'	
000019		371	EQU 0019	
00254E	29BE	372	DC AL2(N00020)	
002550	0020	373	DC XL2'0020'	
000020		374	EQU 0020	
002552	29C2	375	DC AL2(N00021)	
002554	0021	376	DC XL2'0021'	
000021		377	EQU 0021	
002556	29C6	378	DC AL2(N00022)	
002558	0022	379	DC XL2'0022'	
000022		380	EQU 0022	
00255A	29CA	381	DC AL2(N00023)	
00255C	0023	382	DC XL2'0023'	
000023		383	EQU 0023	
00255E	29CE	384	DC AL2(N00024)	
002560	0024	385	DC XL2'0024'	
000024		386	EQU 0024	
002562	29D2	387	DC AL2(N00025)	
002564	0025	388	DC XL2'0025'	
000025		389	EQU 0025	
002566	29D6	390	DC AL2(N00026)	
002568	0026	391	DC XL2'0026'	
000026		392	EQU 0026	
00256A	29EE	393	DC AL2(N00027)	
00256C	0027	394	DC XL2'0027'	
000027		395	EQU 0027	
00256E	29F2	396	DC AL2(N00028)	
002570	0028	397	DC XL2'0028'	
000028		398	EQU 0028	
002572	2A04	399	DC AL2(N00029)	
002574	0029	400	DC XL2'0029'	
000029		401	EQU 0029	
002576	2A08	402	DC AL2(N00030)	
002578	0030	403	DC XL2'0030'	
000030		404	EQU 0030	
00257A	2A0C	405	DC AL2(N00031)	
00257C	0031	406	DC XL2'0031'	
000031		407	EQU 0031	
00257E	2A2A	408	DC AL2(N00032)	
002580	0032	409	DC XL2'0032'	
000032		410	EQU 0032	
002582	2A28	411	DC AL2(N00033)	
002584	0033	412	DC XL2'0033'	
000033		413	EQU 0033	
002586	2A2C	414	DC AL2(N00034)	
002588	0034	415	DC XL2'0034'	
000034		416	EQU 0034	
00258A	2A44	417	DC AL2(N00035)	
00258C	0035	418	DC XL2'0035'	
000035		419	EQU 0035	
00258E	2A62	420	DC AL2(N00036)	
002590	0036	421	DC XL2'0036'	

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
000024		422	EQN00036 EQU 0036	
002562	2A74	423	DC AL2(N00037)	
002594	0037	424	DC XL2'0037'	
000025		425	EQN00037 EQU 0037	
002566	2A78	426	DC AL2(N00038)	
002598	0038	427	DC XL2'0038'	
000026		428	EQN00038 EQU 0038	
00259A	2A90	429	DC AL2(N00039)	
00259C	0039	430	DC XL2'0039'	
000027		431	EQN00039 EQU 0039	
00259E	2A94	432	DC AL2(N00040)	
0025A0	0040	433	DC XL2'0040'	
000028		434	EQN00040 EQU 0040	
0025A2	2AAC	435	DC AL2(N00041)	
0025A4	0041	436	DC XL2'0041'	
000029		437	EQN00041 EQU 0041	
0025A6	2AB0	438	DC AL2(N00042)	
0025A8	0042	439	DC XL2'0042'	
00002A		440	EQN00042 EQU 0042	
0025AA	2AB4	441	DC AL2(N00043)	
0025AC	0043	442	DC XL2'0043'	
00002B		443	EQN00043 EQU 0043	
0025AE	2ACC	444	DC AL2(N00044)	
0025B0	0044	445	DC XL2'0044'	
00002C		446	EQN00044 EQU 0044	
0025B2	2AE4	447	DC AL2(N00045)	
0025B4	0045	448	DC XL2'0045'	
00002D		449	EQN00045 EQU 0045	
0025B6	2AFC	450	DC AL2(N00046)	
0025B8	0046	451	DC XL2'0046'	
00002E		452	EQN00046 EQU 0046	
0025BA	2B14	453	DC AL2(N00047)	
0025BC	0047	454	DC XL2'0047'	
00002F		455	EQN00047 EQU 0047	
0025BE	2B18	456	DC AL2(N00048)	
0025C0	0048	457	DC XL2'0048'	
000030		458	EQN00048 EQU 0048	
0025C2	2B1C	459	DC AL2(N00049)	
0025C4	0049	460	DC XL2'0049'	
000031		461	EQN00049 EQU 0049	
0025C6	2B20	462	DC AL2(N00050)	
0025C8	0050	463	DC XL2'0050'	
000032		464	EQN00050 EQU 0050	
0025CA	2B38	465	DC AL2(N00051)	
0025CC	0051	466	DC XL2'0051'	
000033		467	EQN00051 EQU 0051	
0025CE	2B3C	468	DC AL2(N00052)	
0025D0	0052	469	DC XL2'0052'	
000034		470	EQN00052 EQU 0052	
0025D2	2B40	471	DC AL2(N00053)	
0025D4	0053	472	DC XL2'0053'	
000035		473	EQN00053 EQU 0053	
0025D6	2B58	474	DC AL2(N00054)	
0025D8	0054	475	DC XL2'0054'	
000036		476	EQN00054 EQU 0054	
0025DA	2B72	477	DC AL2(N00055)	
0025DC	0055	478	DC XL2'0055'	
000037		479	EQN00055 EQU 0055	
0025DE	2B76	480	DC AL2(N00056)	
0025E0	0056	481	DC XL2'0056'	
000038		482	EQN00056 EQU 0056	
0025E2	2B8E	483	DC AL2(N00057)	
0025E4	0057	484	DC XL2'0057'	
000039		485	EQN00057 EQU 0057	
0025E6	2BA6	486	DC AL2(N00058)	
0025E8	0058	487	DC XL2'0058'	
00003A		488	EQN00058 EQU 0058	
0025EA	2BBE	489	DC AL2(N00059)	
0025EC	0059	490	DC XL2'0059'	
00003B		491	EQN00059 EQU 0059	
0025EE	2BC2	492	DC AL2(N00060)	
0025F0	0060	493	DC XL2'0060'	
00003C		494	EQN00060 EQU 0060	
0025F2	2BC6	495	DC AL2(N00061)	
0025F4	0061	496	DC XL2'0061'	
00003D		497	EQN00061 EQU 0061	
0025F6	2BD6	498	DC AL2(N00062)	
0025F8	0062	499	DC XL2'0062'	
00003E		500	EQN00062 EQU 0062	
0025FA	2BF6	501	DC AL2(N00063)	
0025FC	0063	502	DC XL2'0063'	
00003F		503	EQN00063 EQU 0063	
0025FE	2C0E	504	DC AL2(N00064)	
002600	0064	505	DC XL2'0064'	
000040		506	EQN00064 EQU 0064	
002602	2C26	507	DC AL2(N00065)	
002604	0065	508	DC XL2'0065'	
000041		509	EQN00065 EQU 0065	
002606	2C2A	510	DC AL2(N00066)	
002608	0066	511	DC XL2'0066'	
000042		512	EQN00066 EQU 0066	
00260A	2C2E	513	DC AL2(N00067)	
00260C	0067	514	DC XL2'0067'	
000043		515	EQN00067 EQU 0067	
00260E	2C32	516	DC AL2(N00068)	
002610	0068	517	DC XL2'0068'	
000044		518	EQN00068 EQU 0068	
002612	2C36	519	DC AL2(N00069)	
002614	0069	520	DC XL2'0069'	
000045		521	EQN00069 EQU 0069	
002616	2C3A	522	DC AL2(N00070)	
002618	0070	523	DC XL2'0070'	
000046		524	EQN00070 EQU 0070	
00261A	2C3E	525	DC AL2(N00071)	
00261C	0071	526	DC XL2'0071'	
000047		527	EQN00071 EQU 0071	
00261E	2C42	528	DC AL2(N00072)	
002620	0072	529	DC XL2'0072'	
000048		530	EQN00072 EQU 0072	
002622	2C5A	531	DC AL2(N00073)	
002624	0073	532	DC XL2'0073'	
000049		533	EQN00073 EQU 0073	
002626	2C72	534	DC AL2(N00074)	
002628	0074	535	DC XL2'0074'	

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT
00004A		536	EQN00074 EQU 0074
00262A	2C76	537	DC AL2(N00075)
00262C	0075	538	DC XL2'0075'
00004B		539	EQN00075 EQU 0075
00262E	2C7A	540	DC AL2(N00076)
002630	0076	541	DC XL2'0076'
00004C		542	EQN00076 EQU 0076
002632	2C92	543	DC AL2(N00077)
002634	0077	544	DC XL2'0077'
00004D		545	EQN00077 EQU 0077
002636	2CAA	546	DC AL2(N00078)
002638	0078	547	DC XL2'0078'
00004E		548	EQN00078 EQU 0078
00263A	2CC4	549	DC AL2(N00079)
00263C	0079	550	DC XL2'0079'
00004F		551	EQN00079 EQU 0079
00263E	2CC8	552	DC AL2(N00080)
002640	0080	553	DC XL2'0080'
000050		554	EQN00080 EQU 0080
002642	2CC2	555	DC AL2(N00081)
002644	0081	556	DC XL2'0081'
000051		557	EQN00081 EQU 0081
002646	2CE6	558	DC AL2(N00082)
002648	0082	559	DC XL2'0082'
000052		560	EQN00082 EQU 0082
00264A	2CFE	561	DC AL2(N00083)
00264C	0083	562	DC XL2'0083'
000053		563	EQN00083 EQU 0083
00264E	2D02	564	DC AL2(N00084)
002650	0084	565	DC XL2'0084'
000054		566	EQN00084 EQU 0084
002652	2D06	567	DC AL2(N00085)
002654	0085	568	DC XL2'0085'
000055		569	EQN00085 EQU 0085
002656	2D0A	570	DC AL2(N00086)
002658	0086	571	DC XL2'0086'
000056		572	EQN00086 EQU 0086
00265A	2D1C	573	DC AL2(N00087)
00265C	0087	574	DC XL2'0087'
000057		575	EQN00087 EQU 0087
00265E	2D20	576	DC AL2(N00088)
002660	0088	577	DC XL2'0088'
000058		578	EQN00088 EQU 0088
002662	2D24	579	DC AL2(N00089)
002664	0089	580	DC XL2'0089'
000059		581	EQN00089 EQU 0089
002666	2D36	582	DC AL2(N00090)
002668	0090	583	DC XL2'0090'
00005A		584	EQN00090 EQU 0090
00266A	2D54	585	DC AL2(N00091)
00266C	0091	586	DC XL2'0091'
00005B		587	EQN00091 EQU 0091
00266E	2D6C	588	DC AL2(N00092)
002670	0092	589	DC XL2'0092'
00005C		590	EQN00092 EQU 0092
002672	2D70	591	DC AL2(N00093)
002674	0093	592	DC XL2'0093'
00005D		593	EQN00093 EQU 0093
002676	2D74	594	DC AL2(N00094)
002678	0094	595	DC XL2'0094'
00005E		596	EQN00094 EQU 0094
00267A	2D86	597	DC AL2(N00095)
00267C	0095	598	DC XL2'0095'
00005F		599	EQN00095 EQU 0095
00267E	2D9E	600	DC AL2(N00096)
002680	0096	601	DC XL2'0096'
000060		602	EQN00096 EQU 0096
002682	2DB8	603	DC AL2(N00097)
002684	0097	604	DC XL2'0097'
000061		605	EQN00097 EQU 0097
002686	2DBC	606	DC AL2(N00098)
002688	0098	607	DC XL2'0098'
000062		608	EQN00098 EQU 0098
00268A	2DC0	609	DC AL2(N00099)
00268C	0099	610	DC XL2'0099'
000063		611	EQN00099 EQU 0099
00268E	2DC4	612	DC AL2(N00100)
002690	0100	613	DC XL2'0100'
000064		614	EQN00100 EQU 0100
002692	2DDC	615	DC AL2(N00101)
002694	0101	616	DC XL2'0101'
000065		617	EQN00101 EQU 0101
002696	2DF6	618	DC AL2(N00102)
002698	0102	619	DC XL2'0102'
000066		620	EQN00102 EQU 0102
00269A	2E0E	621	DC AL2(N00103)
00269C	0103	622	DC XL2'0103'
000067		623	EQN00103 EQU 0103
00269E	2E12	624	DC AL2(N00104)
0026A0	0104	625	DC XL2'0104'
000068		626	EQN00104 EQU 0104
0026A2	2EA4	627	DC AL2(N00105)
0026A4	0105	628	DC XL2'0105'
000069		629	EQN00105 EQU 0105
0026A6	2E2E	630	DC AL2(N00106)
0026A8	0106	631	DC XL2'0106'
00006A		632	EQN00106 EQU 0106
0026AA	2E32	633	DC AL2(N00107)
0026AC	0107	634	DC XL2'0107'
00006B		635	EQN00107 EQU 0107
0026AE	2E36	636	DC AL2(N00108)
0026B0	0108	637	DC XL2'0108'
00006C		638	EQN00108 EQU 0108
0026B2	2E3A	639	DC AL2(N00109)
0026B4	0109	640	DC XL2'0109'
00006D		641	EQN00109 EQU 0109
0026B6	2E3E	642	DC AL2(N00110)
0026B8	0110	643	DC XL2'0110'
00006E		644	EQN00110 EQU 0110
0026BA	2E50	645	DC AL2(N00111)
0026BC	0111	646	DC XL2'0111'
00006F		647	EQN00111 EQU 0111
0026BE	2E68	648	DC AL2(N00112)
0026C0	0112	649	DC XL2'0112'

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT
000070		650	EQN00112 EQU 0112
0026C2	2E7A	651	DC AL2(N00113)
0026C4	0113	652	DC XL2'0113'
000071		653	EQN00113 EQU 0113
0026C6	2E8C	654	DC AL2(N00114)
0026C8	0114	655	DC XL2'0114'
000072		656	EQN00114 EQU 0114
0026CA	2EA4	657	DC AL2(N00115)
0026CC	0115	658	DC XL2'0115'
000073		659	EQN00115 EQU 0115
0026CE	2EB6	660	DC AL2(N00116)
0026D0	0116	661	DC XL2'0116'
000074		662	EQN00116 EQU 0116
0026D2	2EBA	663	DC AL2(N00117)
0026D4	0117	664	DC XL2'0117'
000075		665	EQN00117 EQU 0117
0026D6	2ED2	666	DC AL2(N00118)
0026D8	0118	667	DC XL2'0118'
000076		668	EQN00118 EQU 0118
0026DA	2ED6	669	DC AL2(N00119)
0026DC	0119	670	DC XL2'0119'
000077		671	EQN00119 EQU 0119
0026DE	2EDA	672	DC AL2(N00120)
0026E0	0120	673	DC XL2'0120'
000078		674	EQN00120 EQU 0120
0026E2	2EF2	675	DC AL2(N00121)
0026E4	0121	676	DC XL2'0121'
000079		677	EQN00121 EQU 0121
0026E6	2FOA	678	DC AL2(N00122)
0026E8	0122	679	DC XL2'0122'
00007A		680	EQN00122 EQU 0122
0026EA	2F0E	681	DC AL2(N00123)
0026EC	0123	682	DC XL2'0123'
00007B		683	EQN00123 EQU 0123
0026EE	2F26	684	DC AL2(N00124)
0026F0	0124	685	DC XL2'0124'
00007C		686	EQN00124 EQU 0124
0026F2	2F38	687	DC AL2(N00125)
0026F4	0125	688	DC XL2'0125'
00007D		689	EQN00125 EQU 0125
0026F6	2F3C	690	DC AL2(N00126)
0026F8	0126	691	DC XL2'0126'
00007E		692	EQN00126 EQU 0126
0026FA	2F54	693	DC AL2(N00127)
0026FC	0127	694	DC XL2'0127'
00007F		695	EQN00127 EQU 0127
0026FE	2F58	696	DC AL2(N00128)
002700	0128	697	DC XL2'0128'
000080		698	EQN00128 EQU 0128
002702	2F72	699	DC AL2(N00129)
002704	0129	700	DC XL2'0129'
000081		701	EQN00129 EQU 0129
002706	2F76	702	DC AL2(N00130)
002708	0130	703	DC XL2'0130'
000082		704	EQN00130 EQU 0130
00270A	2F7A	705	DC AL2(N00131)
00270C	0131	706	DC XL2'0131'
000083		707	EQN00131 EQU 0131
00270E	2F7E	708	DC AL2(N00132)
002710	0132	709	DC XL2'0132'
000084		710	EQN00132 EQU 0132
002712	2F82	711	DC AL2(N00133)
002714	0133	712	DC XL2'0133'
000085		713	EQN00133 EQU 0133
002716	2F9A	714	DC AL2(N00134)
002718	0134	715	DC XL2'0134'
000086		716	EQN00134 EQU 0134
00271A	2FB2	717	DC AL2(N00135)
00271C	0135	718	DC XL2'0135'
000087		719	EQN00135 EQU 0135
00271E	2FB6	720	DC AL2(N00136)
002720	0136	721	DC XL2'0136'
000088		722	EQN00136 EQU 0136
002722	2FCE	723	DC AL2(N00137)
002724	0137	724	DC XL2'0137'
000089		725	EQN00137 EQU 0137
002726	2FD2	726	DC AL2(N00138)
002728	0138	727	DC XL2'0138'
00008A		728	EQN00138 EQU 0138
00272A	2FEA	729	DC AL2(N00139)
00272C	0139	730	DC XL2'0139'
00008B		731	EQN00139 EQU 0139
00272E	3002	732	DC AL2(N00140)
002730	0140	733	DC XL2'0140'
00008C		734	EQN00140 EQU 0140
002732	3006	735	DC AL2(N00141)
002734	0141	736	DC XL2'0141'
00008D		737	EQN00141 EQU 0141
002736	300A	738	DC AL2(N00142)
002738	0142	739	DC XL2'0142'
00008E		740	EQN00142 EQU 0142
00273A	300E	741	DC AL2(N00143)
00273C	0143	742	DC XL2'0143'
00008F		743	EQN00143 EQU 0143
00273E	3020	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	305A	756	DC AL2(N00148)
002750	0148	757	DC XL2'0148'
000094		758	EQN00148 EQU 0148
002752	3072	759	DC AL2(N00149)
002754	0149	760	DC XL2'0149'
000095		761	EQN00149 EQU 0149
002756	308A	762	DC AL2(N00150)
002758	0150	763	DC XL2'0150'

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

Table with columns: LOCTR, OBJECT TEXT, STMT, SOURCE STATEMENT. Contains assembly code for FRU isolation map, including a 'RULE INFORMATION TABLE' section.

Table with columns: LOCTR, OBJECT TEXT, STMT SOURCE STATEMENT, and a column for flags (X). Rows include assembly instructions like DC, STUXX, and ALIGN with various parameters and addresses.

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

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LOCTR	OBJECT TEXT	STMT SOURCE STATEMENT	STMT	TEXT	LOCTR	OBJECT TEXT	STMT SOURCE STATEMENT
					1448	N00062	\$TUXX T7A02,8,0000000000000004,ON,QT=(Q00007),YES=N00068, X
002BDE	0500		1449	N00062	DC	A(@TUXX)	
002BE0	2C32		1450	N00062	DC	AL2(N00068)	
002BE2	37D0		1451	N00062	DC	A(T7A02)	
002BE4	0200		1452	N00062	DC	AL2(ON)	
002BE6	0008		1453	N00062	DC	AL2(8)	
002BE8	0000000000000000		1454	N00062	DC	X'0000000000000004'	
			1455	N00062	ALIGN	WORD	
002BF0	0000		1456	N00062	DC	AL2(0)	
002BF2	C1C1		1457	N00062	DC	C'AA'	
			1458	N00062	ALIGN	WORD	
002BF4	196E		1459	N00062	DC	AL2(PARMARA)	
			1460	N00063	\$TUXX T7A02,8,0000001000000010,OF,QT=(Q00006),YES=N00067, X		
002BF6	0500		1461	N00063	DC	A(@TUXX)	
002BF8	2C2E		1462	N00063	DC	AL2(N00067)	
002BFA	37D0		1463	N00063	DC	A(T7A02)	
002BFC	0202		1464	N00063	DC	AL2(OF)	
002BFE	0008		1465	N00063	DC	AL2(8)	
002C00	0000001000000010		1466	N00063	DC	X'0000001000000010'	
			1467	N00063	ALIGN	WORD	
002C08	0000		1468	N00063	DC	AL2(0)	
002C0A	C1C1		1469	N00063	DC	C'AA'	
			1470	N00063	ALIGN	WORD	
002C0C	196E		1471	N00063	DC	AL2(PARMARA)	
			1472	N00064	\$TUXX T7A02,7,000008000000080,OF,QT=(Q00006),YES=N00066, X		
002C0E	0500		1473	N00064	DC	A(@TUXX)	
002C10	2C2A		1474	N00064	DC	AL2(N00066)	
002C12	37D0		1475	N00064	DC	A(T7A02)	
002C14	0202		1476	N00064	DC	AL2(OF)	
002C16	0007		1477	N00064	DC	AL2(7)	
002C18	000080000000080		1478	N00064	DC	X'000008000000080'	
002C1F	00		1479	N00064	ALIGN	WORD	
002C20	0000		1480	N00064	DC	AL2(0)	
002C22	C1C1		1481	N00064	DC	C'AA'	
			1482	N00064	ALIGN	WORD	
002C24	196E		1483	N00064	DC	AL2(PARMARA)	
			1484	N00065	\$FIXT FT=(F00046),GTO=((7A70,D))		
002C26	0101		1485	N00065	DC	A(@FIXT)	
002C28	3494		1486	N00065	DC	A(F00046)	
			1487	N00066	\$FIXT FT=(F00298),GTO=((7A72,B))		
002C2A	0101		1488	N00066	DC	A(@FIXT)	
002C2C	34D2		1489	N00066	DC	A(F00298)	
			1490	N00067	\$FIXT FT=(F00053),GTO=((7A70,E))		
002C2E	0101		1491	N00067	DC	A(@FIXT)	
002C30	3422		1492	N00067	DC	A(F00053)	
			1493	N00068	\$FIXT FT=(F00304),GTO=((7A72,B))		
002C32	0101		1494	N00068	DC	A(@FIXT)	
002C34	34DE		1495	N00068	DC	A(F00304)	
			1496	N00069	\$FIXT FT=(F00307),GTO=((7A72,B))		
002C36	0101		1497	N00069	DC	A(@FIXT)	
002C38	34EA		1498	N00069	DC	A(F00307)	
			1499	N00070	\$FIXT FT=(F00310),GTO=((7A72,B))		
002C3A	0101		1500	N00070	DC	A(@FIXT)	
002C3C	34F6		1501	N00070	DC	A(F00310)	
			1502	N00071	\$FIXT FT=(F00313),GTO=((7A72,B))		
002C3E	0101		1503	N00071	DC	A(@FIXT)	
002C40	3502		1504	N00071	DC	A(F00313)	
			1505	N00072	\$TUXX T7A02,7,00000000000020,ON,QT=(Q00007),YES=N00076, X		
002C42	0500		1506	N00072	DC	A(@TUXX)	
002C44	2C7A		1507	N00072	DC	AL2(N00076)	
002C46	37D0		1508	N00072	DC	A(T7A02)	
002C48	0200		1509	N00072	DC	AL2(ON)	
002C4A	0007		1510	N00072	DC	AL2(7)	
002C4C	00000000000020		1511	N00072	DC	X'0000000000000020'	
002C53	00		1512	N00072	ALIGN	WORD	
002C54	0000		1513	N00072	DC	AL2(0)	
002C56	C1C1		1514	N00072	DC	C'AA'	
			1515	N00072	ALIGN	WORD	
002C58	196E		1516	N00072	DC	AL2(PARMARA)	
			1517	N00073	\$TUXX T7A02,8,0000001000000010,OF,QT=(Q00006),YES=N00075, X		
002C5A	0500		1518	N00073	DC	A(@TUXX)	
002C5E	2C76		1519	N00073	DC	AL2(N00075)	
002C58	37D0		1520	N00073	DC	A(T7A02)	
002C60	0202		1521	N00073	DC	AL2(OF)	
002C62	0008		1522	N00073	DC	AL2(8)	
002C64	0000001000000010		1523	N00073	DC	X'0000001000000010'	
			1524	N00073	ALIGN	WORD	
002C66	0000		1525	N00073	DC	AL2(0)	
002C6E	C1C1		1526	N00073	DC	C'AA'	
			1527	N00073	ALIGN	WORD	
002C70	196E		1528	N00073	DC	AL2(PARMARA)	
			1529	N00074	\$FIXT FT=(F00324),GTO=((7A72,B))		
002C72	0101		1530	N00074	DC	A(@FIXT)	
002C74	350E		1531	N00074	DC	A(F00324)	
			1532	N00075	\$FIXT FT=(F00053),GTO=((7A70,E))		
002C76	0101		1533	N00075	DC	A(@FIXT)	
002C78	3422		1534	N00075	DC	A(F00053)	
			1535	N00076	\$TUXX T7A02,7,000008000000080,OF,QT=(Q00006),YES=N00086, X		
002C7A	0500		1536	N00076	DC	A(@TUXX)	
002C7C	2D0A		1537	N00076	DC	AL2(N00086)	
002C7E	37D0		1538	N00076	DC	A(T7A02)	
002C80	0202		1539	N00076	DC	AL2(OF)	
002C82	0007		1540	N00076	DC	AL2(7)	
002C84	000080000000080		1541	N00076	DC	X'000008000000080'	
002C86	00		1542	N00076	ALIGN	WORD	
002C88	0000		1543	N00076	DC	AL2(0)	
002C8E	C1C1		1544	N00076	DC	C'AA'	
			1545	N00076	ALIGN	WORD	
002C90	196E		1546	N00076	DC	AL2(PARMARA)	
			1547	N00077	\$TUXX T7A02,7,00000100000001,OF,QT=(Q00006),YES=N00081, X		
002C92	0500		1548	N00077	DC	A(@TUXX)	
002C94	2CCC		1549	N00077	DC	AL2(N00081)	
002C96	37D0		1550	N00077	DC	A(T7A02)	
002C98	0202		1551	N00077	DC	AL2(OF)	
002C9A	0007		1552	N00077	DC	AL2(7)	
002C9C	000001000000001		1553	N00077	DC	X'000001000000001'	
002CA3	00		1554	N00077	ALIGN	WORD	
002CA4	0000		1555	N00077	DC	AL2(0)	
002CA6	C1C1		1556	N00077	DC	C'AA'	
			1557	N00077	ALIGN	WORD	
002CA8	196E		1558	N00077	DC	AL2(PARMARA)	
			1559	N00078	\$TUXX T7A02,9,000000000800000080,OF,QT=(Q00006),YES=N00080, X		
002CAA	0500		1560	N00078	DC	A(@TUXX)	
002CAC	2CC8		1561	N00078	DC	AL2(N00080)	

LOCTR	OBJECT TEXT	STMT SOURCE STATEMENT	STMT	TEXT	LOCTR	OBJECT TEXT	STMT SOURCE STATEMENT
002CAE	37D0		1562	N00079	DC	A(T7A02)	
002CB0	0202		1563	N00079	DC	AL2(OF)	
002CB2	0009		1564	N00079	DC	AL2(9)	
002CB4	00000000800000008		1565	N00079	DC	X'000000008000000080'	
002CB8	00		1566	N00079	ALIGN	WORD	
002CBE	0000		1567	N00079	DC	AL2(0)	
002CC0	C1C1		1568	N00079	DC	C'AA'	
			1569	N00079	ALIGN	WORD	
002CC2	196E		1570	N00079	DC	AL2(PARMARA)	
			1571	N00079	\$FIXT FT=(F00342),GTO=((7A76,F))		
002CC4	0101		1572	N00079	DC	A(@FIXT)	
002CC6	351A		1573	N00079	DC	A(F00342)	
			1574	N00080	\$FIXT FT=(F00053),GTO=((7A70,E))		
002CC8	0101		1575	N00080	DC	A(@FIXT)	
002CCA	3422		1576	N00080	DC	A(F00053)	
			1577	N00081	\$TUXX T7A02,9,000000000100000001,OF,QT=(Q00006),YES=N00085, X		
002CCC	0500		1578	N00081	DC	A(@TUXX)	
002CCE	2D06		1579	N00081	DC	AL2(N00085)	
002CD0	37D0		1580	N00081	DC	A(T7A02)	
002CD2	0202		1581	N00081	DC	AL2(OF)	
002CD4	0009		1582	N00081	DC	AL2(9)	
002CD6	000000000100000000		1583	N00081	DC	X'000000000100000000'	
002CDF	00		1584	N00081	ALIGN	WORD	
002CE0	0000		1585	N00081	DC	AL2(0)	
002CE2	C1C1		1586	N00081	DC	C'AA'	
			1587	N00081	ALIGN	WORD	
002CE4	196E		1588	N00081	DC	AL2(PARMARA)	
			1589	N00082	\$TUXX T7A02,7,000000000000080,ON,QT=(Q00007),YES=N00084, X		
002CE6	0500		1590	N00082	DC	A(@TUXX)	
002CE8	2D02		1591	N00082	DC	AL2(N00084)	
002CEA	37D0		1592	N00082	DC	A(T7A02)	
002CEC	0200		1593	N00082	DC	AL2(ON)	
002CEE	0007		1594	N00082	DC	AL2(7)	
002CF0	000000000000080		1595	N00082	DC	X'000000000000080'	
002CF7	00		1596	N00082	ALIGN	WORD	
002CF8	0000		1597	N00082	DC	AL2(0)	
002CFA	C1C1		1598	N00082	DC	C'AA'	
			1599	N00082	ALIGN	WORD	
002CFC	196E		1600	N00082	DC	AL2(PARMARA)	
			1601	N00083	\$FIXT FT=(F00356),GTO=((7A76,F))		
002CFE	0101		1602	N00083	DC	A(@FIXT)	
002D00	3526		1603	N00083	DC	A(F00356)	

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002D7E	0008	1676+	DC X*0008'	
002D80	0000	1677+	ALIGN WORD	
002D82	C1C1	1678+	DC AL2(0)	
		1679+	DC C'AA'	
		1680+	ALIGN WORD	
002D84	196E	1681+	DC AL2(PARMARA)	
		1682+ N00095	\$TUXX T7A02,7,00008000000080,OF,QT=(Q00006),YES=N00099,	X
		1683+ N00095	DC A(@TUXX)	
002D86	0500	1684+	DC AL2(N00099)	
002D88	2BC0	1685+	DC A(T7A02)	
002D8C	37D0	1686+	DC AL2(0F)	
002D8E	0202	1687+	DC AL2(7)	
002D8E	0007	1688+	DC X'000080000000080'	
002D90	000080000000080	1689+	ALIGN WORD	
002D97	00	1690+	DC AL2(0)	
002D98	0000	1691+	DC C'AA'	
002D9A	C1C1	1692+	ALIGN WORD	
		1693+	DC AL2(PARMARA)	
		1694+ N00096	\$TUXX T7A02,9,00000008000000080,OF,QT=(Q00006),YES=N00098,	X
		1695+ N00096	DC A(@TUXX)	
002D9E	0500	1696+	DC AL2(N00098)	
002DA0	2BC0	1697+	DC A(T7A02)	
002DA2	37D0	1698+	DC AL2(ON)	
002DA2	0202	1699+	DC AL2(7)	
002DA6	0009	1700+	DC X'0000000000000080'	
002DA8	000000008000000080	1701+	ALIGN WORD	
002DB1	00	1702+	DC AL2(0)	
002DB2	0000	1703+	DC C'AA'	
002DB4	C1C1	1704+	ALIGN WORD	
		1705+	DC AL2(PARMARA)	
002DB6	196E	1706+ N00097	\$FIXT FT=(F00046),GTO=((7A70,D))	
002DB8	0101	1707+ N00097	DC A(@FIXT)	
002DBA	3494	1708+	DC A(F00046)	
		1709+ N00098	\$FIXT FT=(F00040),GTO=((7A76,D))	
		1710+ N00098	DC A(@FIXT)	
		1711+	DC A(F00040)	
002DBC	0101	1712+ N00099	\$FIXT FT=(F00047),GTO=((7A76,D))	
002DBE	3556	1713+ N00099	DC A(@FIXT)	
		1714+	DC A(F00047)	
002DC0	0101	1715+ N00100	\$TUXX T7A02,7,000000000000040,ON,QT=(Q00007),YES=N00108,	X
002DC2	3562	1716+ N00100	DC A(@TUXX)	
		1717+	DC AL2(N00108)	
002DC4	0500	1718+	DC A(T7A02)	
002DC6	2E36	1719+	DC AL2(ON)	
002DC8	37D0	1720+	DC AL2(7)	
002DCA	0200	1721+	DC X'000000000000040'	
002DCC	0007	1722+	ALIGN WORD	
002DCE	000000000000040	1723+	DC AL2(0)	
002D95	00	1724+	DC C'AA'	
002DD6	0000	1725+	ALIGN WORD	
002DD8	C1C1	1726+	DC AL2(PARMARA)	
		1727+ N00101	\$TUXX T7A02,9,000000000000080,ON,QT=(Q00007),YES=N00107,	X
		1728+ N00101	DC A(@TUXX)	
002DDC	0500	1729+	DC AL2(N00107)	
002DDE	2E32	1730+	DC A(T7A02)	
002DE0	37D0	1731+	DC AL2(ON)	
002DE2	0200	1732+	DC AL2(9)	
002DE4	0009	1733+	DC X'0000000000000080'	
002DE6	0000000000000080	1734+	ALIGN WORD	
002DE7	00	1735+	DC AL2(0)	
002DE9	0000	1736+	DC C'AA'	
002DF2	C1C1	1737+	ALIGN WORD	
		1738+	DC AL2(PARMARA)	
002DF4	196E	1739+ N00102	\$TUXX T7A02,7,000000000000040,OF,QT=(Q00006),YES=N00104,	X
		1740+ N00102	DC A(@TUXX)	
002DF6	0500	1741+	DC AL2(N00104)	
002DF8	2E12	1742+	DC A(T7A02)	
002DFA	37D0	1743+	DC AL2(0F)	
002DFC	0202	1744+	DC AL2(7)	
002DFE	0007	1745+	DC X'0000000000000040'	
002E00	0000400000000040	1746+	ALIGN WORD	
002E07	00	1747+	DC AL2(0)	
002E08	0000	1748+	DC C'AA'	
002E0A	C1C1	1749+	ALIGN WORD	
		1750+	DC AL2(PARMARA)	
002E0C	196E	1751+ N00103	\$FIXT FT=(F00046),GTO=((7A70,D))	
		1752+ N00103	DC A(@FIXT)	
		1753+	DC A(F00046)	
002E10	3494	1754+ N00104	\$TUXX T7A02,8,0000000400000004,OF,QT=(Q00006),YES=N00106,	X
		1755+ N00104	DC A(@TUXX)	
002E12	0500	1756+	DC AL2(N00106)	
002E14	2E2E	1757+	DC A(T7A02)	
002E16	37D0	1758+	DC AL2(0F)	
002E18	0202	1759+	DC AL2(8)	
002E1A	0608	1760+	DC X'0000000400000004'	
002E1C	0000000400000004	1761+	ALIGN WORD	
		1762+	DC AL2(0)	
002E24	0000	1763+	DC C'AA'	
002E26	C1C1	1764+	ALIGN WORD	
		1765+	DC AL2(PARMARA)	
002E28	196E	1766+ N00105	\$FIXT FT=(F00046),GTO=((7A70,D))	
		1767+ N00105	DC A(@FIXT)	
		1768+	DC A(F00046)	
002E2E	0101	1769+ N00106	\$FIXT FT=(F000432),GTO=((7A76,E))	
002E30	356E	1770+ N00106	DC A(@FIXT)	
		1771+	DC A(F000432)	
002E32	0101	1772+ N00107	\$FIXT FT=(F000435),GTO=((7A76,E))	
002E34	357A	1773+ N00107	DC A(@FIXT)	
		1774+	DC A(F000435)	
002E36	0101	1775+ N00108	\$FIXT FT=(F000438),GTO=((7A76,E))	
002E38	3586	1776+ N00108	DC A(@FIXT)	
		1777+	DC A(F000438)	
002E3A	0101	1778+ N00109	\$FIXT FT=(F000441),GTO=((7A72,Z))	
002E3C	3592	1779+ N00109	DC A(@FIXT)	
		1780+	DC A(F000441)	
002E3E	0500	1781+ N00110	\$TUXX T7A10,1,C2,EQ,QT=(Q00046),YES=N00208,CT=(C00444)	
002E40	3374	1782+ N00110	DC A(@TUXX)	
002E42	3D14	1783+	DC AL2(N00208)	
002E44	0000	1784+	DC A(T7A10)	
002E46	0001	1785+	DC AL2(EQ)	
002E48	C2	1786+	DC AL2(1)	
002E49	00	1787+	DC X'C2'	
002E4A	0000	1788+	ALIGN WORD	
		1789+	DC AL2(0)	

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002E4C	C1C1	1790+	DC C'AA'	
		1791+	ALIGN WORD	
002E4E	196E	1792+	DC AL2(PARMARA)	
		1793+ N00111	\$TUXX T7A02,8,0000000400000004,OF,QT=(Q00006),YES=N00173,	X
		1794+ N00111	DC A(@TUXX)	
002E50	0500	1795+	DC AL2(N00173)	
002E52	319A	1796+	DC A(T7A02)	
002E54	37D0	1797+	DC AL2(0F)	
002E56	0202	1798+	DC AL2(8)	
002E58	0008	1799+	DC X'0000000400000004'	
002E5A	0000000400000004	1800+	ALIGN WORD	
002E62	0000	1801+	DC AL2(0)	
002E64	C1C1	1802+	DC C'AA'	
		1803+	ALIGN WORD	
002E66	196E	1804+	DC AL2(PARMARA)	
		1805+ N00112	\$TUXX T7A02,1,C1,EQ,QT=(Q00067),YES=N00162,CT=(C00066)	
		1806+ N00112	DC A(@TUXX)	
002E68	0500	1807+	DC AL2(N00162)	
002E6A	310A	1808+	DC A(T7A02)	
002E6C	3D00	1809+	DC AL2(EQ)	
002E6E	0000	1810+	DC AL2(1)	
002E70	0001	1811+	DC X'C1'	
002E72	C1	1812+	ALIGN WORD	
002E73	00	1813+	DC AL2(0)	
002E74	0000	1814+	DC C'AA'	
002E76	C1C1	1815+	ALIGN WORD	
		1816+	DC AL2(PARMARA)	
002E78	196E	1817+ N00113	\$TUXX T7A02,2,0040,OF,QT=(Q00006),YES=N00133,CT=(C00065)	
		1818+ N00113	DC A(@TUXX)	
002E7A	0500	1819+	DC AL2(N00133)	
002E7C	2F82	1820+	DC A(T7A02)	
002E7E	37D0	1821+	DC AL2(0F)	
002E80	0202	1822+	DC AL2(2)	
002E82	0002	1823+	DC X'00040'	
002E84	0040	1824+	ALIGN WORD	
002E86	0000	1825+	DC AL2(0)	
002E88	C1C1	1826+	DC C'AA'	
		1827+	ALIGN WORD	
002E8A	196E	1828+	DC AL2(PARMARA)	
		1829+ N00114	\$TUXX T7A02,7,00000100000001,OF,QT=(Q00006),YES=N00120,	X
		1830+ N00114	DC A(@TUXX)	
002E8C	0500	1831+	DC AL2(N00120)	
002E8E	2EDA	1832+	DC A(T7A02)	
002E90	37D0	1833+	DC AL2(0F)	
002E92	0202	1834+	DC AL2(7)	
002E94	0007	1835+	DC X'00000100000001'	
002E96	00000100000001	1836+	ALIGN WORD	
002E98	00	1837+	DC AL2(0)	
002E9E	0000	1838+	DC C'AA'	
002EA0	C1C1	1839+	ALIGN WORD	
		1840+	DC AL2(PARMARA)	
002EA2	196E	1841+ N00115	\$TUXX T7A02,2,0004,OF,QT=(Q00006),YES=N00117,CT=(C00063)	
		1842+ N00115	DC A(@TUXX)	
002EA4	0500	1843+	DC AL2(N00117)	
002EA6	2EBA	1844+	DC A(T7A02)	
002EA8	37D0	1845+	DC AL2(0F)	
002EAA	0202	1846+	DC AL2(2)	
002EAC	0002	1847+	DC X'00040'	
002EAE	0004	1848+	ALIGN WORD	
002EB0	0000	1849+	DC AL2(0)	
002EB2	C1C1	1850+	DC C'AA'	
		1851+	ALIGN WORD	
002EB4	196E	1852+	DC AL2(PARMARA)	
		1853+ N00116	\$FIXT FT=(F000465),GTO=((7A72,F))	
		1854+ N00116	DC A(@FIXT)	
002EB6	0101	1855+	DC A(F000465)	
002EB8	359E	1856+ N00117	\$TUXX T7A02,8,000008000000080,OF,QT=(Q00006),YES=N00119,	X
		1857+ N00117	DC A(@TUXX)	
002EBA	0500	1858+	DC AL2(N00119)	
002EBC	2F8E	1859+	DC A(T7A02)	
002EBE	3902	1860+	DC AL2(0F)	
002EC0	0202	1861+	DC AL2(8)	
002EC2	0008	1862+	DC X'000008000000080'	
002EC4	000008000000080	1863+	ALIGN WORD	
		1864+	DC AL2(0)	
002ECC	0000	1865+	DC C'AA'	
002ECE	C1C1	1866+	ALIGN WORD	
		1867+	DC AL2(PARMARA)	
002ED0	196E	1868+ N00118	\$FIXT FT=(F000472),GTO=((7A76,F))	
		1869+ N00118	DC A(@FIXT)	
002ED2	0101	1870+	DC A(F000472)	
002ED4	35AA	1871+ N00119	\$FIXT FT=(F000475),GTO=((7A72,R))	
		1872+ N00119	DC A(@FIXT)	
002ED6	0101	1873+	DC A(F000475)	
002ED8	35B6	1874+ N00120	\$TUXX T7A02,9,000001000000010,OF,QT=(Q00006),YES=N00132,	X
		1875+ N00120	DC A(@TUXX)	
002EDA	0500	1876+	DC AL2(N00132)	
002EDC	2F7E	1877+	DC A(T7A02)	
002EDE	37D0	1878+	DC AL2(0F)	
002EE0	0202	1879+	DC AL2(9)	
002EE2	0009	1880+	DC X'0000001000000010'	
002EE4	000001000000010	1881+	ALIGN WORD	
		1882+	DC AL2(0)	
002EEC	0000	1883+	DC C'AA'	
002EEE	C1C1	1884+	ALIGN WORD	



LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002F12	37D0	1904+	DC A(T7A02)	
002F14	0202	1905+	DC AL2(OF)	
002F16	0007	1906+	DC AL2(7)	
002F18	00008000000080	1907+	DC X'00008000000080'	
002F1F	00	1908+	ALIGN WORD	
002F20	0000	1909+	DC AL2(0)	
002F22	C1C1	1910+	DC C'AA'	
		1911+	ALIGN WORD	
002F24	196E	1912+	DC AL2(PARMARA)	
		1913+ N00124	STUXX T7A02,7,0004,OF,QT=(Q00006),YES=N00126,CT=(C00063)	
		1914+ N00124	DC A(@FIXT)	
002F26	0500	1915+	DC AL2(N00126)	
002F28	2F3C	1916+	DC A(T7A02)	
002F2A	37D0	1917+	DC AL2(OF)	
002F2C	0202	1918+	DC AL2(2)	
002F2E	0002	1919+	DC X'0004'	
002F30	0004	1920+	ALIGN WORD	
		1921+	DC AL2(0)	
002F32	0000	1922+	DC C'AA'	
002F34	C1C1	1923+	ALIGN WORD	
		1924+	DC AL2(PARMARA)	
002F36	196E	1925+ N00125	STUXX FT=(P00496),GTO=((7A72,F))	
		1926+ N00125	DC A(@FIXT)	
		1927+	DC A(P00496)	
002F38	0101	1928+ N00126	STUXX T7A02,8,0000002000000020,OF,QT=(Q00006),YES=N00128,	X
002F3A	35CE	1929+ N00126	DC A(@TUXX)	
		1930+	DC AL2(N00128)	
002F3C	0500	1931+	DC A(T7A02)	
002F3E	2F58	1932+	DC AL2(OF)	
002F40	37D0	1933+	DC AL2(8)	
002F42	0202	1934+	DC X'0000002000000020'	
002F44	0008	1935+	ALIGN WORD	
002F46	0000002000000020	1936+	DC AL2(0)	
		1937+	DC C'AA'	
002F4E	0000	1938+	ALIGN WORD	
002F50	C1C1	1939+	DC AL2(PARMARA)	
		1940+ N00127	STUXX FT=(P00503),GTO=((7A72,F))	
		1941+ N00127	DC A(@FIXT)	
002F52	196E	1942+	DC A(P00503)	
		1943+ N00128	STUXX T7A02,9,000000002000000020,OF,QT=(Q00006),YES=N00130,	X
		1944+ N00128	DC A(@TUXX)	
002F54	0101	1945+	DC AL2(N00130)	
002F56	35DA	1946+	DC A(T7A02)	
		1947+	DC AL2(OF)	
002F58	0500	1948+	DC AL2(9)	
002F5A	2F76	1949+	DC X'000000002000000020'	
002F5C	37D0	1950+	ALIGN WORD	
002F5E	0202	1951+	DC AL2(0)	
002F60	0009	1952+	DC C'AA'	
002F62	00000000200000002	1953+	ALIGN WORD	
002F64	0000	1954+	DC AL2(PARMARA)	
002F66	0000	1955+ N00129	STUXX FT=(P00510),GTO=((7A72,R))	
002F68	C1C1	1956+ N00129	DC A(@FIXT)	
		1957+	DC A(P00510)	
002F70	196E	1958+ N00130	STUXX FT=(P00513),GTO=((7A72,F))	
		1959+ N00130	DC A(@FIXT)	
002F72	0101	1960+	DC A(P00513)	
002F74	35E6	1961+ N00131	STUXX FT=(P00516),GTO=((7A72,R))	
		1962+ N00131	DC A(@FIXT)	
		1963+	DC A(P00516)	
002F76	0101	1964+ N00132	STUXX FT=(P00519),GTO=((7A72,R))	
002F78	35F2	1965+ N00132	DC A(@FIXT)	
		1966+	DC A(P00519)	
002F7E	0101	1967+ N00133	STUXX T7A02,7,00000000000040,ON,QT=(Q00007),YES=N00143,	X
002F80	360A	1968+ N00133	DC A(@TUXX)	
		1969+	DC AL2(N00143)	
002F82	0500	1970+	DC A(T7A02)	
002F84	300E	1971+	DC AL2(ON)	
002F86	37D0	1972+	DC AL2(7)	
002F88	0200	1973+	DC X'0000000000000040'	
002F8A	0007	1974+	ALIGN WORD	
002F8C	0000000000000040	1975+	DC AL2(0)	
002F8E	00	1976+	DC C'AA'	
002F90	00	1977+	ALIGN WORD	
002F92	C1C1	1978+	DC AL2(PARMARA)	
002F94	0000	1979+ N00134	STUXX T7A02,7,00000100000001,OF,QT=(Q00006),YES=N00136,	X
002F96	0000	1980+ N00134	DC A(@TUXX)	
002F98	196E	1981+	DC AL2(N00136)	
		1982+	DC A(T7A02)	
002F9A	0500	1983+	DC AL2(OF)	
002F9C	2FB6	1984+	DC AL2(7)	
002F9E	37D0	1985+	DC X'000000100000001'	
002FA0	0202	1986+	ALIGN WORD	
002FA2	0007	1987+	DC AL2(0)	
002FA4	000001000000001	1988+	DC C'AA'	
002FA6	00	1989+	ALIGN WORD	
002FA8	0000	1990+	DC AL2(PARMARA)	
002FAC	C1C1	1991+ N00135	STUXX FT=(P00530),GTO=((7A72,F))	
002FAE	0000	1992+ N00135	DC A(@FIXT)	
		1993+	DC A(P00530)	
002FB0	196E	1994+ N00136	STUXX T7A02,7,00004000000040,OF,QT=(Q00006),YES=N00138,	X
		1995+ N00136	DC A(@TUXX)	
002FB2	0101	1996+	DC AL2(N00138)	
002FB4	3616	1997+	DC A(T7A02)	
		1998+	DC AL2(OF)	
002FB6	0500	1999+	DC AL2(7)	
002FB8	2FD2	2000+	DC X'000040000000040'	
002FBA	37D0	2001+	ALIGN WORD	
002FBC	0202	2002+	DC AL2(0)	
002FBE	0007	2003+	DC C'AA'	
002FC0	000040000000040	2004+	ALIGN WORD	
002FC2	00	2005+	DC AL2(PARMARA)	
002FC4	0000	2006+ N00137	STUXX FT=(P00537),GTO=((7A72,B))	
002FC6	C1C1	2007+ N00137	DC A(@FIXT)	
		2008+	DC A(P00537)	
002FD0	0500	2009+ N00138	STUXX T7A02,7,00008000000080,OF,QT=(Q00006),YES=N00142,	X
		2010+ N00138	DC A(@TUXX)	
002FD2	300A	2011+	DC AL2(N00142)	
002FD4	37D0	2012+	DC A(T7A02)	
002FD6	0202	2013+	DC AL2(OF)	
002FD8	0007	2014+	DC AL2(7)	
002FDA	00008000000080	2015+	DC X'00008000000080'	
002FDE	00	2016+	ALIGN WORD	
002FE0	0000	2017+	DC AL2(0)	

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002FE6	C1C1	2018+	DC C'AA'	
		2019+	ALIGN WORD	
002FE8	196E	2020+	DC AL2(PARMARA)	
		2021+ N00139	STUXX T7A02,7,00000000000020,ON,QT=(Q00007),YES=N00141,	X
		2022+ N00139	DC A(@TUXX)	
002FEA	0500	2023+	DC AL2(N00141)	
002FEC	3006	2024+	DC A(T7A02)	
002FEF	37D0	2025+	DC AL2(ON)	
002FF0	0202	2026+	DC AL2(7)	
002FF2	0007	2027+	DC X'00000000000020'	
002FF4	00000000000020	2028+	ALIGN WORD	
002FFB	00	2029+	DC AL2(0)	
002FFC	0000	2030+	DC C'AA'	
002FFE	C1C1	2031+	ALIGN WORD	
		2032+	DC AL2(PARMARA)	
003000	196E	2033+ N00140	STUXX FT=(P00548),GTO=((7A72,F))	
		2034+ N00140	DC A(@FIXT)	
003002	0101	2035+	DC A(P00548)	
003004	362E	2036+ N00141	STUXX FT=(P00553),GTO=((7A70,E))	
		2037+ N00141	DC A(@FIXT)	
003006	0101	2038+	DC A(P00553)	
003008	3422	2039+ N00142	STUXX FT=(P00553),GTO=((7A70,E))	
		2040+ N00142	DC A(@FIXT)	
00300A	0101	2041+	DC A(P00553)	
00300C	3422	2042+ N00143	STUXX T7A02,1,E2,EQ,QT=(Q00052),YES=N00147,CT=(C00051)	
		2043+ N00143	DC A(@TUXX)	
00300E	0500	2044+	DC AL2(N00147)	
003010	3040	2045+	DC A(T7A02)	
003012	37D0	2046+	DC AL2(EQ)	
003014	0000	2047+	DC AL2(7)	
003016	0001	2048+	DC X'E2'	
003018	0001	2049+	ALIGN WORD	
003019	E2	2050+	DC AL2(0)	
00301A	0000	2051+	DC C'AA'	
00301C	C1C1	2052+	ALIGN WORD	
		2053+	DC AL2(PARMARA)	
00301E	196E	2054+ N00144	STUXX T7A02,7,00000100000001,OF,QT=(Q00006),YES=N00146,	X
		2055+ N00144	DC A(@TUXX)	
003020	0500	2056+	DC AL2(N00146)	
003022	303C	2057+	DC A(T7A02)	
003024	37D0	2058+	DC AL2(OF)	
003026	0202	2059+	DC AL2(7)	
003028	0007	2060+	DC X'000000100000001'	
00302A	00001000000001	2061+	ALIGN WORD	
00302C	0000	2062+	DC AL2(0)	
00302E	C1C1	2063+	DC C'AA'	
003030	0000	2064+	ALIGN WORD	
003032	0000	2065+	DC AL2(PARMARA)	
003034	C1C1	2066+ N00145	STUXX FT=(P00553),GTO=((7A70,E))	
		2067+ N00145	DC A(@FIXT)	
003036	196E	2068+	DC A(P00553)	
		2069+ N00146	STUXX FT=(P00567),GTO=((7A72,R))	
003038	0101	2070+ N00146	DC A(@FIXT)	
00303A	3422	2071+	DC A(P00567)	
00303C	0101	2072+ N00147	STUXX T7A02,9,000000002000000020,OF,QT=(Q00006),YES=N00161,	X
00303E	363A	2073+ N00147	DC A(@TUXX)	
		2074+	DC AL2(N00161)	
003040	0500	2075+	DC A(T7A02)	
003042	3106	2076+	DC AL2(OF)	
003044	37D0	2077+	DC AL2(9)	
003046	0202	2078+	DC X'000000002000000020'	
003048	0009	2079+	ALIGN WORD	
00304A	00000000200000002	2080+	DC AL2(0)	
00304C	0000	2081+	DC C'AA'	
00304E	C1C1	2082+	ALIGN WORD	
003050	196E	2083+	DC AL2(PARMARA)	
		2084+ N00148	STUXX T7A02,8,0000004000000040,OF,QT=(Q00006),YES=N00158,	X
		2085+ N00148	DC A(@TUXX)	
00305A	0500	2086+	DC AL2(N00158)	
00305C	30E6	2087+	DC A(T7A02)	
00305E	37D0	2088+	DC AL2(OF)	
003060	0202	2089+	DC AL2(8)	
003062	0008	2090+	DC X'0000004000000040'	
003064	0000004000000040	2091+	ALIGN WORD	
		2092+	DC AL2(0)	
003066	0000	2093+	DC C'AA'	
003068	C1C1	2094+	ALIGN WORD	
		2095+	DC AL2(PARMARA)	
003070	196E	2096+ N00149	STUXX T7A02,8,0000008000000080,OF,QT=(Q00006),YES=N00157,	X
		2097+ N00149	DC A(@TUXX)	
003072	0500	2098+	DC AL2(N00157)	
003074	30E2	2099+	DC A(T7A02)	
003076	37D0	2100+	DC AL2(OF)	
003078	0202	2101+	DC AL2(8)	
00307A	0008	2102+	DC X'0000008000000080'	
00307C	0000008000000080	2103+	ALIGN WORD	
		2104+	DC AL2(0)	

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
0030BA	C1C1	2132+	DC C'AA'	
0030BC	196E	2133+	ALIGN WORD	
0030BE	0500	2134+	DC AL2(PARMARA)	
0030C0	30DA	2135 N00153	STUXX T7A02,7,00000100000001,OF,QT=(Q00006),YES=N00155,	X
0030C2	37D0	2136+N00153	DC A(@FIXT)	
0030C4	0202	2137+	DC AL2(N00155)	
0030C6	0007	2138+	DC A(T7A02)	
0030C8	00000100000001	2139+	DC AL2(OF)	
0030CF	00	2140+	DC AL2(7)	
0030D0	0000	2141+	DC X'00000100000001'	
0030D2	C1C1	2142+	ALIGN WORD	
0030D4	196E	2143+	DC AL2(0)	
0030D6	0101	2144+	DC C'AA'	
0030D8	3652	2145+	ALIGN WORD	
0030DA	0101	2146+	DC AL2(PARMARA)	
0030DC	33F0	2147 N00154	\$FIXT FT=(F00597),GTO=((7A72,F))	
0030DE	0101	2148+N00154	DC A(@FIXT)	
0030E0	33F0	2149+	DC A(F00597)	
0030E2	0101	2150 N00155	\$FIXT FT=(F00048),GTO=((7A70,B))	
0030E4	365E	2151+N00155	DC A(@FIXT)	
0030E6	0500	2152+	DC A(F00048)	
0030E8	3102	2153 N00156	\$FIXT FT=(F00048),GTO=((7A70,B))	
0030EA	37D0	2154+N00156	DC A(@FIXT)	
0030EC	0202	2155+	DC A(F00048)	
0030EE	0007	2156 N00157	\$FIXT FT=(F00606),GTO=((7A72,F))	
0030F0	00000100000001	2157+N00157	DC A(@FIXT)	
0030F7	00	2158+	DC A(F00606)	
0030F8	0000	2159 N00158	STUXX T7A02,7,00000100000001,OF,QT=(Q00006),YES=N00160,	X
0030FA	C1C1	2160+N00158	DC A(@FIXT)	
0030FC	196E	2161+	DC AL2(N00160)	
0030FE	0101	2162+	DC A(T7A02)	
003100	366A	2163+	DC AL2(OF)	
003102	0101	2164+	DC AL2(7)	
003104	3676	2165+	DC X'00000100000001'	
003106	0101	2166+	ALIGN WORD	
003108	3682	2167+	DC AL2(0)	
00310A	0500	2168+	DC C'AA'	
00310C	3196	2169+	ALIGN WORD	
00310E	37D0	2170+	DC AL2(PARMARA)	
003110	0200	2171 N00159	\$FIXT FT=(F00613),GTO=((7A72,F))	
003112	0007	2172+N00159	DC A(@FIXT)	
003114	00000000000080	2173+	DC A(F00613)	
00311B	00	2174 N00160	\$FIXT FT=(F00616),GTO=((7A72,R))	
00311C	0000	2175+N00160	DC A(@FIXT)	
00311E	C1C1	2176+	DC A(F00616)	
003120	196E	2177 N00161	\$FIXT FT=(F00619),GTO=((7A72,R))	
003122	0500	2178+N00161	DC A(@FIXT)	
003124	3176	2179+	DC A(F00619)	
003126	37D0	2180 N00162	STUXX T7A02,7,00000000000080,ON,QT=(Q00007),YES=N00172,	X
003128	0202	2181+N00162	DC A(@FIXT)	
00312A	0008	2182+	DC AL2(N00172)	
00312C	0000008000000080	2183+	DC A(T7A02)	
003134	0000	2184+	DC AL2(ON)	
003136	C1C1	2185+	DC AL2(7)	
003138	196E	2186+	DC X'00000000000080'	
00313A	0500	2187+	ALIGN WORD	
00313C	3156	2188+	DC AL2(0)	
00313E	37D0	2189+	DC C'AA'	
003140	0202	2190+	ALIGN WORD	
003142	0007	2191+	DC AL2(PARMARA)	
003144	00004000000040	2192 N00163	STUXX T7A02,8,0000008000000080,OF,QT=(Q00006),YES=N00169,	X
00314B	00	2193+N00163	DC A(@FIXT)	
00314C	0000	2194+	DC AL2(N00169)	
00314E	C1C1	2195+	DC A(T7A02)	
003150	196E	2196+	DC AL2(OF)	
003152	0101	2197+	DC AL2(8)	
003154	368E	2198+	DC X'0000008000000080'	
003156	0500	2199+	ALIGN WORD	
003158	3172	2200+	DC AL2(0)	
00315A	37D0	2201+	DC C'AA'	
00315C	0200	2202+	ALIGN WORD	
00315E	0007	2203+	DC AL2(PARMARA)	
003160	00000000000020	2204 N00164	STUXX T7A02,7,00004000000040,OF,QT=(Q00006),YES=N00166,	X
003167	00	2205+N00164	DC A(@FIXT)	
003169	0000	2206+	DC AL2(N00166)	
00316A	C1C1	2207+	DC A(T7A02)	
00316C	196E	2208+	DC AL2(OF)	
00316E	0101	2209+	DC AL2(7)	
003170	3494	2210+	DC X'00004000000040'	
003172	0101	2211+	ALIGN WORD	
003174	369A	2212+	DC AL2(0)	
003176	0500	2213+	DC C'AA'	
003178	3192	2214+	ALIGN WORD	
00317A	37D0	2215 N00165	STUXX T7A02,7,00000000000020,ON,QT=(Q00007),YES=N00168,	X
00317C	0202	2216+N00165	DC A(@FIXT)	
00317E	0007	2217+	DC A(F00634)	
003180	00004000000040	2218 N00166	STUXX T7A02,7,00000000000020,ON,QT=(Q00007),YES=N00168,	X
003187	00	2219+N00166	DC A(@FIXT)	
003188	0000	2220+	DC AL2(N00168)	
		2221+	DC A(T7A02)	
		2222+	DC AL2(ON)	
		2223+	DC AL2(7)	
		2224+	DC X'00000000000020'	
		2225+	ALIGN WORD	
		2226+	DC AL2(0)	
		2227+	DC C'AA'	
		2228+	ALIGN WORD	
		2229+	DC AL2(PARMARA)	
		2230+	DC AL2(PARMARA)	
		2231 N00167	\$FIXT FT=(F00046),GTO=((7A70,D))	
		2232+N00167	DC A(@FIXT)	
		2233+	DC A(F00046)	
		2234 N00168	\$FIXT FT=(F00644),GTO=((7A76,F))	
		2235+N00168	DC A(@FIXT)	
		2236+	DC A(F00644)	
		2237 N00169	STUXX T7A02,7,00004000000040,OF,QT=(Q00006),YES=N00171,	X
		2238+N00169	DC A(@FIXT)	
		2239+	DC AL2(N00171)	
		2240+	DC A(T7A02)	
		2241+	DC AL2(OF)	
		2242+	DC AL2(7)	
		2243+	DC X'00004000000040'	
		2244+	ALIGN WORD	
		2245+	DC AL2(0)	

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00318A	C1C1	2246+	DC C'AA'	
00318C	196E	2247+	ALIGN WORD	
00318E	0101	2248+	DC AL2(PARMARA)	
003190	33F0	2249 N00170	\$FIXT FT=(F00048),GTO=((7A70,B))	
003192	0101	2250+N00170	DC A(@FIXT)	
003194	36A6	2251+	DC A(F00048)	
003196	0101	2252 N00171	\$FIXT FT=(F00045),GTO=((7A70,A))	
003198	36B4	2253+N00171	DC A(@FIXT)	
00319A	0500	2254+	DC A(F00045)	
00319C	3354	2255 N00172	\$FIXT FT=(F00657),GTO=((7A72,C))	
00319E	37D0	2256+N00172	DC A(@FIXT)	
0031A0	0202	2257+	DC A(F00657)	
0031A2	0009	2258 N00173	STUXX T7A02,9,00000000800000008,OF,QT=(Q00006),YES=N00205,	X
0031A4	000000000800000000	2259+N00173	DC A(@FIXT)	
0031A6	00	2260+	DC AL2(N00205)	
0031A8	0000	2261+	DC A(T7A02)	
0031AA	C1C1	2262+	DC AL2(OF)	
0031AB	0000	2263+	DC AL2(9)	
0031AD	0000	2264+	DC X'00000000800000008'	
0031AE	0000	2265+	ALIGN WORD	
0031B0	C1C1	2266+	DC AL2(0)	
0031B2	196E	2267+	DC C'AA'	
0031B4	0500	2268+	ALIGN WORD	
0031B6	32E6	2269 N00174	STUXX T7A02,7,00004000000040,OF,QT=(Q00006),YES=N00196,	X
0031B8	37D0	2270+N00174	DC A(@FIXT)	
0031BA	0202	2271+	DC AL2(N00196)	
0031BC	0007	2272+	DC A(T7A02)	
0031BE	00004000000040	2273+	DC AL2(OF)	
0031C0	0000	2274+	DC AL2(7)	
0031C2	0000	2275+	DC X'00004000000040'	
0031C4	C1C1	2276+	ALIGN WORD	
0031CA	196E	2277+	DC AL2(0)	
0031CC	0500	2278+	DC C'AA'	
0031CE	325A	2279+	ALIGN WORD	
0031D0	37D0	2280 N00175	STUXX T7A02,14,00000000000000000000100,OF,QT=(Q00043),	X
0031D2	0202	2281+N00175	DC A(@FIXT)	
0031D4	000E	2282+	DC AL2(N00185)	
0031D6	0000000000000000	2283+	DC A(T7A02)	
0031E4	0000	2284+	DC AL2(OF)	
0031E6	C1C1	2285+	DC AL2(14)	
0031E8	196E	2286+	DC X'00000000000000000000000000100'	
0031EA	0500	2287+	ALIGN WORD	
0031EC	3256	2288+	DC AL2(0)	
0031EE	37D0	2289+	DC C'AA'	
0031F0	0202	2290+	ALIGN WORD	
0031F2	0008	2291 N00176	STUXX T7A02,9,0000001000000010,OF,QT=(Q00006),YES=N00184,	X
0031F4	0000001000000010	2292+N00176	DC A(@FIXT)	
0031FE	0000	2293+	DC AL2(N00184)	
0031FC	C1C1	2294+	DC A(T7A02)	
003200	196E	2295+	DC AL2(OF)	
003202	0500	2296+	DC AL2(8)	
003204	3220	2297+	DC X'0000001000000010'	
003206	37D0	2298+	ALIGN WORD	
003208	0202	2299+	DC AL2(0)	
00320A	0009	2300+	DC C'AA'	
00320C	0000000800000008	2301+	ALIGN WORD	
00320E	00	2302 N00177	STUXX T7A02,9,00000008000000080,OF,QT=(Q00006),YES=N00179,	X
003210	0000	2303+N00177	DC A(@FIXT)	
003212	00	2304+	DC AL2(N00179)	
003214	0000	2305+	DC A(T7A02)	
003216	0000	2306+	DC AL2(OF)	
003218	C1C1	2307+	DC AL2(9)	
00321A	196E	2308+	DC X'00000008000000080'	
00321C	0101	2309+	ALIGN WORD	
00321E	36C0	2310 N00178	\$FIXT FT=(F00679),GTO=((7A76,F))	
003220	0500	2311+N00178	DC A(@FIXT)	
003222	3252	2312+	DC A(F00679)	
003224	37D0	2313 N00179	STUXX T7A02,8,0000004000000040,OF,QT=(Q00006),YES=N00183,	X
003226	0202	2314+N00179	DC A(@FIXT)	
003228	0008	2315+	DC AL2(N00183)	
00322A	0000004000000040	2316+	DC A(T7A02)	
003232	0000	2317+	DC AL2(OF)	
003234	C1C1	2318+	DC AL2(8)	
003236	196E	2319+	DC X'0000004000000040'	
003238	0500	2320 N00180	STUXX T7A02,1,D6,EQ,QT=(Q00052),YES=N00182,CT=(C00051)	
00323A	324E	2321+N00180	DC A(@FIXT)	
00323C	37D0	2322+	DC AL2(N00182)	
00323E	0000	2323+	DC A(T7A02)	
003240	0001	2324+	DC AL2(EQ)	
003242	00	2325+	DC AL2(1)	
003244	00	2326+	DC X'D6'	
003246	C1C1	2327+	ALIGN WORD	
003248	196E	2328+	DC AL2(0)	
00324A	0101	2329+	DC C'AA'	
00324C	36CC	2330+	ALIGN WORD	
00324E	0101	2331+	DC AL2(PARMARA)	
003250	3494	2		

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00325E 37D0 2360+ DC A(T7A02)
003260 0202 2361+ DC AL2(OF)
003262 0008 2362+ DC AL2(8)
003264 0000001000000010 2363+ DC X'0000001000000010'
2364+ ALIGN WORD
00326C 0000 2365+ DC AL2(0)
00326E C1C1 2366+ DC C'AA'
2367+ ALIGN WORD
003270 196E 2368+ DC AL2(PARMARA)
2369 N00186 $TUXX T7A02,1,D6,EQ,QT=(Q00052),YES=N00188,CT=(C00051)
2370 N00186 DC A(@TUXX)
003272 0500 2371+ DC AL2(N00188)
003274 3288 2372+ DC A(T7A02)
003276 37D0 2373+ DC AL2(EQ)
003278 0000 2374+ DC AL2(8)
00327A 0001 2375+ DC X'D6'
00327C D6 2376+ DC X'D6'
00327D 00 2377+ ALIGN WORD
00327E 0000 2378+ DC AL2(0)
003280 C1C1 2379+ DC C'AA'
2380+ ALIGN WORD
003282 196E 2381+ DC AL2(PARMARA)
2382 N00187 $FIXT FT=(F00708),GTO=((7A76,F))
2383 N00187 DC A(@FIXT)
003284 0101 2384+ DC A(F00708)
003286 36E4 2385 N00188 $TUXX T7A02,7,0000100000001,OF,QT=(Q00006),YES=N00192,
2386 N00188 DC A(@TUXX)
003288 0500 2387+ DC AL2(N00192)
00328A 32C2 2388+ DC A(T7A02)
00328C 37D0 2389+ DC AL2(OF)
00328E 0202 2390+ DC AL2(7)
003290 0007 2391+ DC X'00000100000001'
003292 00000100000001 2392+ ALIGN WORD
003294 00 2393+ DC AL2(0)
003296 C1C1 2394+ DC C'AA'
2395+ ALIGN WORD
00329E 196E 2396+ DC AL2(PARMARA)
2397 N00189 $TUXX T7A02,9,00000008000000080,OF,QT=(Q00006),YES=N00191,
2398 N00189 DC A(@TUXX)
0032A0 0500 2399+ DC AL2(N00191)
0032A2 32BE 2400+ DC A(T7A02)
0032A4 37D0 2401+ DC AL2(OF)
0032A6 0202 2402+ DC AL2(9)
0032A8 0009 2403+ DC X'00000008000000080'
0032AA 0000000800000008 2404+ ALIGN WORD
0032AB 00 2405+ DC AL2(0)
0032AD 0000 2406+ DC C'AA'
0032B0 C1C1 2407+ ALIGN WORD
2408+ DC AL2(PARMARA)
0032B8 196E 2409 N00190 $FIXT FT=(F00048),GTO=((7A70,B))
2410 N00190 DC A(@FIXT)
2411 N00191 $FIXT FT=(F00722),GTO=((7A76,F))
2412 N00191 DC A(@FIXT)
0032BA 0101 2413+ DC A(F00722)
0032BC 33F0 2414 N00192 $TUXX T7A02,7,00000000000020,ON,QT=(Q00007),YES=N00194,
2415 N00192 DC A(@TUXX)
0032C2 0500 2416+ DC AL2(N00194)
0032C4 32DE 2417+ DC A(T7A02)
0032C6 37D0 2418+ DC AL2(ON)
0032C8 0200 2419+ DC AL2(7)
0032CA 0007 2420+ DC X'000000000000020'
0032CC 000000000000020 2421+ ALIGN WORD
0032CE 00 2422+ DC AL2(0)
0032D0 0000 2423+ DC C'AA'
0032D2 C1C1 2424+ ALIGN WORD
2425+ DC AL2(PARMARA)
0032D8 196E 2426 N00193 $FIXT FT=(F00048),GTO=((7A70,B))
2427 N00193 DC A(@FIXT)
2428+ DC A(F00048)
0032DA 0101 2429 N00194 $FIXT FT=(F00732),GTO=((7A72,G))
0032DC 33F0 2430 N00194 DC A(@FIXT)
2431+ DC A(F00732)
0032DE 0101 2432 N00195 $FIXT FT=(F00735),GTO=((7A72,G))
0032E0 36FC 2433 N00195 DC A(@FIXT)
2434+ DC A(F00735)
0032E2 0101 2435 N00196 $TUXX T7A02,1,D6,EQ,QT=(Q00052),YES=N00198,CT=(C00051)
0032E4 3708 2436 N00196 DC A(@TUXX)
0032E6 0500 2437+ DC AL2(N00198)
0032E8 32FC 2438+ DC A(T7A02)
0032EA 37D0 2439+ DC AL2(EQ)
0032EC 0000 2440+ DC AL2(1)
0032EE 0001 2441+ DC X'D6'
0032F0 D6 2442+ ALIGN WORD
0032F2 00 2443+ DC AL2(0)
0032F4 0000 2444+ DC C'AA'
0032F6 C1C1 2445+ ALIGN WORD
2446+ DC AL2(PARMARA)
0032F8 196E 2447 N00197 $FIXT FT=(F00741),GTO=((7A76,F))
2448 N00197 DC A(@FIXT)
0032FA 3714 2449+ DC A(F00741)
2450 N00198 $TUXX T7A02,7,00000100000001,OF,QT=(Q00006),YES=N00204,
2451 N00198 DC A(@TUXX)
0032FC 0500 2452+ DC AL2(N00204)
0032FE 3350 2453+ DC A(T7A02)
003300 37D0 2454+ DC AL2(OF)
003302 0202 2455+ DC AL2(7)
003304 0007 2456+ DC X'00000100000001'
003306 00000100000001 2457+ ALIGN WORD
003308 0000 2458+ DC AL2(0)
003310 C1C1 2459+ DC C'AA'
2460+ ALIGN WORD
003312 196E 2461+ DC AL2(PARMARA)
2462 N00199 $TUXX T7A02,8,0000000800000008,OF,QT=(Q00006),YES=N00201,
2463 N00199 DC A(@TUXX)
003314 0500 2464+ DC AL2(N00201)
003316 3330 2465+ DC A(T7A02)
003318 37D0 2466+ DC AL2(OF)
00331A 0202 2467+ DC AL2(8)
00331C 0008 2468+ DC X'0000000800000008'
00331E 0000000800000008 2469+ ALIGN WORD
2470+ DC AL2(0)
2471+ DC C'AA'
2472+ ALIGN WORD
00332A 196E 2473+ DC AL2(PARMARA)

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2474 N00200 $FIXT FT=(F00752),GTO=((7A72,F))
2475 N00200 DC A(@FIXT)
00332C 0101 2476+ DC A(F00752)
00332E 3720 2477 N00201 $TUXX T7A02,8,0000001000000010,OF,QT=(Q00006),YES=N00203,
2478 N00201 DC A(@TUXX)
003330 0500 2479+ DC AL2(N00203)
003332 334C 2480+ DC A(T7A02)
003334 37D0 2481+ DC AL2(OF)
003336 0202 2482+ DC AL2(8)
003338 0008 2483+ DC X'0000001000000010'
00333A 0000001000000010 2484+ ALIGN WORD
2485+ DC AL2(0)
2486+ DC C'AA'
2487+ ALIGN WORD
003342 0000 2488+ DC AL2(PARMARA)
003344 C1C1 2489 N00202 $FIXT FT=(F00759),GTO=((7A76,F))
2490 N00202 DC A(@FIXT)
2491+ DC A(F00759)
003346 196E 2492 N00203 $FIXT FT=(F00762),GTO=((7A72,F))
2493 N00203 DC A(@FIXT)
2494+ DC A(F00762)
003348 0101 2495 N00204 $FIXT FT=(F00765),GTO=((7A72,F))
00334A 372C 2496 N00204 DC A(@FIXT)
2497+ DC A(F00765)
003350 0101 2498 N00205 $TUXX T7A02,7,00004000000040,OF,QT=(Q00006),YES=N00207,
003352 3744 2499 N00205 DC A(@TUXX)
2500+ DC AL2(N00207)
003354 0500 2501+ DC A(T7A02)
003356 3370 2502+ DC AL2(OF)
003358 37D0 2503+ DC AL2(7)
00335A 0202 2504+ DC X'00004000000040'
00335C 0007 2505+ ALIGN WORD
00335E 00004000000040 2506+ DC AL2(0)
2507+ DC C'AA'
2508+ ALIGN WORD
00336A 196E 2509+ DC AL2(PARMARA)
2510 N00206 $FIXT FT=(F00772),GTO=((7A76,M))
2511 N00206 DC A(@FIXT)
00336C 0101 2512+ DC A(F00772)
00336E 3750 2513 N00207 $FIXT FT=(F00775),GTO=((7A72,R))
2514 N00207 DC A(@FIXT)
003370 0101 2515+ DC A(F00775)
003372 375C 2516 N00208 $TUXX T7A02,7,00000000000040,ON,QT=(Q00007),YES=N00210,
2517 N00208 DC A(@TUXX)
003374 0500 2518+ DC AL2(N00210)
003376 3390 2519+ DC A(T7A02)
003378 37D0 2520+ DC AL2(ON)
00337A 0200 2521+ DC AL2(7)
00337C 0007 2522+ DC X'00000000000040'
00337E 00000000000040 2523+ ALIGN WORD
003380 00 2524+ DC AL2(0)
003382 0000 2525+ DC C'AA'
003384 C1C1 2526+ ALIGN WORD
2527+ DC AL2(PARMARA)
00338A 196E 2528 N00209 $FIXT FT=(F00782),GTO=((7A72,X))
2529 N00209 DC A(@FIXT)
2530+ DC A(F00782)
00338C 0101 2531 N00210 $TUXX T7A02,7,00000100000001,OF,QT=(Q00006),YES=N00212,
00338E 3768 2532 N00210 DC A(@TUXX)
2533+ DC AL2(N00212)
003390 0500 2534+ DC A(T7A02)
003392 33AC 2535+ DC AL2(OF)
003394 37D0 2536+ DC AL2(7)
003396 0202 2537+ DC X'00000100000001'
003398 0007 2538+ ALIGN WORD
00339A 00000100000001 2539+ DC AL2(0)
0033A0 00 2540+ DC C'AA'
0033A2 0000 2541+ ALIGN WORD
0033A4 C1C1 2542+ DC AL2(PARMARA)
2543 N00211 $FIXT FT=(F00048),GTO=((7A70,B))
2544 N00211 DC A(@FIXT)
0033AA 33F0 2545+ DC A(F00048)
2546 N00212 $TUXX T7A02,8,000002000000020,OF,QT=(Q00006),YES=N00214,
2547 N00212 DC A(@TUXX)
0033AC 0500 2548+ DC AL2(N00214)
0033AE 33C8 2549+ DC A(T7A02)
0033B0 37D0 2550+ DC AL2(OF)
0033B2 0202 2551+ DC AL2(8)
0033B4 0008 2552+ DC X'000002000000020'
0033B6 0000002000000020 2553+ ALIGN WORD
2554+ DC AL2(0)
2555+ DC C'AA'
2556+ ALIGN WORD
0033BE 0000 2557+ DC AL2(PARMARA)
0033C0 C1C1 2558 N00213 $FIXT FT=(F00796),GTO=((7A72,S))
2559 N00213 DC A(@FIXT)
0033C2 196E 2560+ DC A(F00796)
2561 N00214 $FIXT FT=(F00048),GTO=((7A70,B))
2562 N00214 DC A(@FIXT)
0033C4 0101 2563+ DC A(F00048)
0033C6 3774 2564+ DC AL2(DUMMY)
2565+ EQU *
2566 *****
2567 *****
2568 **
2569 **
2570 **
2571 *****
2572 *****
2573 *****
2574 *****
2575 *****
2576 *****
2577 *****
2578 *****
2579 *****
2580 *****
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2585 *****
2586 *****
2587 *****

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LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
0033D8	0001	2588	DC AL2(0001)	
0033DA	0008	2589	DC A(0008)	
0033DC	D4C1D7F7C1F2F2C4	2590	DC CL0008*MAP7A22D'	
0033E4	0001	2591	EQU *	F00123
0033E6	0008	2592	DC AL2(0001)	
0033E8	D4C1D7F7C1F7F2C6	2593	DC A(0008)	
0033F0	0001	2594	DC CL0008*MAP7A72F'	
0033F0	0001	2595	EQU *	F00048
0033F0	000A	2596	DC AL2(0001)	
0033F2	000A	2597	DC A(0010)	
0033F4	D4C1D7F7C1F7F060C	2598	DC CL0010*MAP7A70-B'	
0033FE	0001	2599	EQU *	F00135
0033FE	0001	2600	DC AL2(0001)	
003400	0008	2601	DC A(0008)	
003402	D4C1D7F7C1F7F2C6	2602	DC CL0008*MAP7A72F'	
00340A	0001	2603	EQU *	F00144
00340A	0008	2604	DC AL2(0001)	
00340C	0008	2605	DC A(0008)	
00340E	D4C1D7F7C1F7F2C6	2606	DC CL0008*MAP7A72F'	
003416	0001	2607	EQU *	F00147
003416	0001	2608	DC AL2(0001)	
003418	0008	2609	DC A(0008)	
00341A	D4C1D7F7C1F7F2C6	2610	DC CL0008*MAP7A72F'	
003422	0001	2611	EQU *	F00053
003422	0001	2612	DC AL2(0001)	
003424	000A	2613	DC A(0010)	
003426	D4C1D7F7C1F7F060C	2614	DC CL0010*MAP7A70-E'	
003430	0001	2615	EQU *	F00156
003430	0008	2616	DC AL2(0001)	
003432	0008	2617	DC A(0008)	
003434	D4C1D7F7C1F7F6C6	2618	DC CL0008*MAP7A76F'	
00343C	0001	2619	EQU *	F00163
00343C	0001	2620	DC AL2(0001)	
00343E	0008	2621	DC A(0008)	
003440	D4C1D7F7C1F7F2C6	2622	DC CL0008*MAP7A72F'	
003448	0001	2623	EQU *	F00169
003448	0001	2624	DC AL2(0001)	
00344A	0008	2625	DC A(0008)	
00344C	D4C1D7F7C1F7F2C6	2626	DC CL0008*MAP7A72F'	
003454	0001	2627	EQU *	F00034
003454	000A	2628	DC AL2(0001)	
003456	000A	2629	DC A(0010)	
003458	D4C1D7F7C1F7F060C	2630	DC CL0010*MAP7A70-C'	
003462	0001	2631	EQU *	F00179
003462	0001	2632	DC AL2(0001)	
003464	0008	2633	DC A(0008)	
003466	D4C1D7F7C1F7F6D5	2634	DC CL0008*MAP7A76N'	
00346E	0001	2635	EQU *	F00182
00346E	0001	2636	DC AL2(0001)	
003470	0008	2637	DC A(0008)	
003472	D4C1D7F7C1F7F6D4	2638	DC CL0008*MAP7A76M'	
00347A	0001	2639	EQU *	F00032
00347A	000A	2640	DC AL2(0001)	
00347C	000A	2641	DC A(0010)	
00347E	D4C1D7F7C1F7F060D	2642	DC CL0010*MAP7A70-J'	
003488	0001	2643	EQU *	F00202
003488	0001	2644	DC AL2(0001)	
00348A	0008	2645	DC A(0008)	
00348C	D4C1D7F7C1F7F6D9	2646	DC CL0008*MAP7A76R'	
003494	0001	2647	EQU *	F00046
003494	000A	2648	DC AL2(0001)	
003496	000A	2649	DC A(0010)	
003498	D4C1D7F7C1F7F060C	2650	DC CL0010*MAP7A70-D'	
0034A2	0001	2651	EQU *	F00234
0034A2	0008	2652	DC AL2(0001)	
0034A4	D4C1D7F7C1F7F6D5	2653	DC A(0008)	
0034A6	0001	2654	DC CL0008*MAP7A76N'	
0034AE	0001	2655	EQU *	F00244
0034AE	0001	2656	DC AL2(0001)	
0034B0	0008	2657	DC A(0008)	
0034B2	D4C1D7F7C1F7F2C2	2658	DC CL0008*MAP7A72B'	
0034BA	0001	2659	EQU *	F00247
0034BA	0001	2660	DC AL2(0001)	
0034BC	0008	2661	DC A(0008)	
0034BE	D4C1D7F7C1F7F6D5	2662	DC CL0008*MAP7A76N'	
0034C6	0001	2663	EQU *	F00258
0034C6	0001	2664	DC AL2(0001)	
0034C8	0008	2665	DC A(0008)	
0034CA	D4C1D7F7C1F7F2C2	2666	DC CL0008*MAP7A72B'	
0034D2	0001	2667	EQU *	F00298
0034D2	0001	2668	DC AL2(0001)	
0034D4	0008	2669	DC A(0008)	
0034D6	D4C1D7F7C1F7F2C2	2670	DC CL0008*MAP7A72B'	
0034DE	0001	2671	EQU *	F00304
0034DE	0001	2672	DC AL2(0001)	
0034E0	0008	2673	DC A(0008)	
0034E2	D4C1D7F7C1F7F2C2	2674	DC CL0008*MAP7A72B'	
0034EA	0001	2675	EQU *	F00307
0034EA	0001	2676	DC AL2(0001)	
0034EC	0008	2677	DC A(0008)	
0034EE	D4C1D7F7C1F7F2C2	2678	DC CL0008*MAP7A72B'	
0034F6	0001	2679	EQU *	F00310
0034F6	0001	2680	DC AL2(0001)	
0034F8	0008	2681	DC A(0008)	
0034FA	D4C1D7F7C1F7F2C2	2682	DC CL0008*MAP7A72B'	
003502	0001	2683	EQU *	F00313
003502	0001	2684	DC AL2(0001)	
003504	0008	2685	DC A(0008)	
003506	D4C1D7F7C1F7F2C2	2686	DC CL0008*MAP7A72B'	
00350E	0001	2687	EQU *	F00324
00350E	0001	2688	DC AL2(0001)	
003510	0008	2689	DC A(0008)	
003512	D4C1D7F7C1F7F2C2	2690	DC CL0008*MAP7A72B'	
00351A	0001	2691	EQU *	F00342
00351A	0001	2692	DC AL2(0001)	
00351C	0008	2693	DC A(0008)	
00351E	D4C1D7F7C1F7F6C6	2694	DC CL0008*MAP7A76F'	
003526	0001	2695	EQU *	F00356
003526	0001	2696	DC AL2(0001)	
003528	0008	2697	DC A(0008)	
00352A	D4C1D7F7C1F7F6C6	2698	DC CL0008*MAP7A76F'	
003532	0001	2699	EQU *	F00359
003532	0001	2700	DC AL2(0001)	
003534	0008	2701	DC A(0008)	

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
003536	D4C1D7F7C1F7F6E4	2702	DC CL0008*MAP7A76U'	
00353E	0001	2703	EQU *	F00371
003540	0008	2704	DC AL2(0001)	
003542	D4C1D7F7C1F7F2C2	2705	DC A(0008)	
00354A	0001	2706	DC CL0008*MAP7A72B'	
00354A	0001	2707	EQU *	F00387
00354A	0001	2708	DC AL2(0001)	
00354C	0008	2709	DC A(0008)	
00354E	D4C1D7F7C1F7F2E7	2710	DC CL0008*MAP7A72X'	
003556	0001	2711	EQU *	F00404
003556	0008	2712	DC AL2(0001)	
00355A	D4C1D7F7C1F7F6C4	2713	DC A(0008)	
003562	0001	2714	DC CL0008*MAP7A76D'	
003564	0008	2715	EQU *	F00407
003566	D4C1D7F7C1F7F6C4	2716	DC AL2(0001)	
00356E	0001	2717	DC A(0008)	
00356E	0001	2718	DC CL0008*MAP7A76D'	
003570	0008	2719	EQU *	F00432
003572	D4C1D7F7C1F7F6C5	2720	DC AL2(0001)	
00357A	0008	2721	DC A(0008)	
00357A	0001	2722	DC CL0008*MAP7A76E'	
00357C	0008	2723	EQU *	F00435
00357E	D4C1D7F7C1F7F6C5	2724	DC AL2(0001)	
003586	0001	2725	DC A(0008)	
003588	0008	2726	DC CL0008*MAP7A76E'	
00358A	D4C1D7F7C1F7F6C5	2727	EQU *	F00438
003592	0001	2728	DC AL2(0001)	
003592	0001	2729	DC A(0008)	
003594	0008	2730	DC CL0008*MAP7A76E'	
003596	D4C1D7F7C1F7F2E9	2731	EQU *	F00441
00359E	0001	2732	DC AL2(0001)	
0035A0	0008	2733	DC A(0008)	
0035A2	D4C1D7F7C1F7F2C6	2734	DC CL0008*MAP7A72Z'	
0035AA	0001	2735	EQU *	F00465
0035AA	0001	2736	DC AL2(0001)	
0035AA	0008	2737	DC A(0008)	
0035AC	D4C1D7F7C1F7F2C6	2738	DC CL0008*MAP7A72F'	
0035AE	0001	2739	EQU *	F00472
0035B6	D4C1D7F7C1F7F6C6	2740	DC AL2(0001)	
0035B6	0001	2741	DC A(0008)	
0035B8	0008	2742	DC CL0008*MAP7A76F'	
0035BA	D4C1D7F7C1F7F2D9	2743	EQU *	F00475
0035C2	0001	2744	DC AL2(0001)	
0035C4	0008	2745	DC A(0008)	
0035C6	D4C1D7F7C1F7F2D9	2746	DC CL0008*MAP7A72R'	
0035CE	0001	2747	EQU *	F00486
0035CE	0001	2748	DC AL2(0001)	
0035CE	0008	2749	DC A(0008)	
0035D2	D4C1D7F7C1F7F2C6	2750	DC CL0008*MAP7A72R'	
0035DA	0001	2751	EQU *	F00496
0035DA	0001	2752	DC AL2(0001)	
0035DC	0008	2753	DC A(0008)	
0035DE	D4C1D7F7C1F7F2C6	2754	DC CL0008*MAP7A72F'	
0035E6	0001	2755	EQU *	F00503
0035E6	0001	2756	DC AL2(0001)	
0035E8	0008	2757	DC A(0008)	
0035EA	D4C1D7F7C1F7F2D9	2758	DC CL0008*MAP7A72F'	
0035F2	0001	2759	EQU *	F00510
0035F2	0001	2760	DC AL2(0001)	
0035F4	0008	2761	DC A(0008)	
0035F6	D4C1D7F7C1F7F2C6	2762	DC CL0008*MAP7A72R'	
0035FE	0001	2763	EQU *	F00513
0035FE	0001	2764	DC AL2(0001)	
003600	0008	2765	DC A(0008)	
003602	D4C1D7F7C1F7F2D9	2766	DC CL0008*MAP7A72F'	
00360A	0001	2767	EQU *	F00516
00360A	0001	2768	DC AL2(0001)	
00360C	0008	2769	DC A(0008)	
00360E	D4C1D7F7C1F7F2D9	2770	DC CL0008*MAP7A72R'	
003616	0001	2771	EQU *	F00519
003616	0001	2772	DC AL2(0001)	
003618	0008	2773	DC A(0008)	
00361A	D4C1D7F7C1F7F2C6	2774	DC CL0008*MAP7A72R'	
003622	0001	2775	EQU *	F00530
003622	0001	2776	DC AL2(0001)	
003624	0008	2777	DC A(0008)	
003626	D4C1D7F7C1F7F2C2	2778	DC CL0008*MAP7A72F'	
00362E	0001	2779	EQU *	F00537
003630	0001	2780	DC AL2(0001)	
003632	D4C1D7F7C1F7F2C6	2781	DC A(0008)	
00363A	0001	2782	DC CL0008*MAP7A72B'	
00363A	0008	2783	EQU *	F00548
00363C	D4C1D7F7C1F7F2C6	2784	DC AL2(0001)	
00363A	0001	2785	DC A(0008)	
00363C	D4C1D7F7C1F7F2D9	2786	DC CL0008*MAP7A72F'	
003646	0001	2787	EQU *	F00567
003646	0001	2788	DC AL2(0001)	
003648	0008	2789	DC A(0008)	
00364A	D4C1D7F7C1F7F2C6	2790	DC CL0008*MAP7A72R'	
003652	0001	2791	EQU *	F00586
003652	0001	2792	DC AL2(0001)	
003654	0008	2793	DC A(0008)	
003656	D4C1D7F7C1F7F2C6	2794	DC CL0008*MAP7A72F'	
00365E	0001	2795	EQU *	F00597
00365E	0001	2796	DC AL2(0001)	
00365E	0008	2797	DC A(0008)	
00365E	D4C1D7F7C1F7F2C6	2798	DC CL0008*MAP7A72F'	
003660	0001	2799	EQU *	F00606
003662	D4C1D7F7C1F7F2C6	2800	DC AL2(0001)	
00366A	0001	2801	DC A(0008)	
00366C	0008	2802	DC CL0008*MAP7A72F'	
00366E	D4C1D7F7C1F7F2C6	2803	EQU *	F00613
003676	0001	2804	DC AL2(0001)	
003676	0008	2805	DC A(0008)	
00367A	D4C1D7F7C1F7F2D9	2806	DC CL0008*MAP7A72F'	
003682	0001	2807	EQU *	F00616
003682	0001	2808		

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00368E	0001	2816	DC AL2(0001)	
003690	0008	2817	DC A(0008)	
003692	D4C1D7F7C1F7F6C6	2818	DC CLO008*MAP7A76F*	
00369A	0001	2819	EQU *	F00644
00369C	0008	2820	DC AL2(0001)	
00369E	D4C1D7F7C1F7F6C6	2821	DC A(0008)	
0036A6	0001	2822	DC CLO008*MAP7A76F*	
0036A8	000A	2823	EQU *	F00045
0036AA	D4C1D7F7C1F7F060C	2824	DC AL2(0001)	
0036B4	0001	2825	DC A(000A)	
0036B6	0008	2826	DC CLO010*MAP7A70-A *	
0036B8	D4C1D7F7C1F7F2C3	2827	EQU *	F00657
0036C0	0001	2828	DC AL2(0001)	
0036C2	0008	2829	DC A(0008)	
0036C4	D4C1D7F7C1F7F6C6	2830	DC CLO008*MAP7A72C*	
0036CC	0001	2831	EQU *	F00679
0036CE	0008	2832	DC AL2(0001)	
0036D0	D4C1D7F7C1F7F6C6	2833	DC A(0008)	
0036D8	0001	2834	DC CLO008*MAP7A76F*	
0036DA	0008	2835	EQU *	F00689
0036DC	D4C1D7F7C1F7F6C6	2836	DC AL2(0001)	
0036E4	0001	2837	DC A(0008)	
0036E6	0008	2838	DC CLO008*MAP7A76F*	
0036E8	D4C1D7F7C1F7F6C6	2839	EQU *	F00722
0036F0	0001	2840	DC AL2(0001)	
0036F2	0008	2841	DC A(0008)	
0036F4	D4C1D7F7C1F7F6C6	2842	DC CLO008*MAP7A76F*	
0036FC	0001	2843	EQU *	F00732
0036FE	0008	2844	DC AL2(0001)	
003700	D4C1D7F7C1F7F2C7	2845	DC A(0008)	
003708	0001	2846	DC CLO008*MAP7A72G*	
00370A	0008	2847	EQU *	F00735
00370C	D4C1D7F7C1F7F2C7	2848	DC AL2(0001)	
003714	0001	2849	DC A(0008)	
003716	0008	2850	DC CLO008*MAP7A76F*	
003718	D4C1D7F7C1F7F6C6	2851	EQU *	F00741
003720	0001	2852	DC AL2(0001)	
003722	0008	2853	DC A(0008)	
003724	D4C1D7F7C1F7F2C6	2854	DC CLO008*MAP7A72F*	
00372C	0001	2855	EQU *	F00752
00372E	0008	2856	DC AL2(0001)	
003730	D4C1D7F7C1F7F6C6	2857	DC A(0008)	
003738	0001	2858	DC CLO008*MAP7A76F*	
00373A	0008	2859	EQU *	F00762
00373C	D4C1D7F7C1F7F2C6	2860	DC AL2(0001)	
003744	0001	2861	DC A(0008)	
003746	0008	2862	DC CLO008*MAP7A72F*	
003748	D4C1D7F7C1F7F2C6	2863	EQU *	F00765
003750	0001	2864	DC AL2(0001)	
003752	0008	2865	DC A(0008)	
003754	D4C1D7F7C1F7F6D4	2866	DC CLO008*MAP7A76M*	
00375C	0001	2867	EQU *	F00775
00375E	0008	2868	DC AL2(0001)	
003760	D4C1D7F7C1F7F2D9	2869	DC A(0008)	
003768	0001	2870	DC CLO008*MAP7A72R*	
00376A	0008	2871	EQU *	F00782
00376C	D4C1D7F7C1F7F2E7	2872	DC AL2(0001)	
003774	0001	2873	DC A(0008)	
003776	0008	2874	DC CLO008*MAP7A72X*	
003778	D4C1D7F7C1F7F2E2	2875	EQU *	F00796
003780	0000	2876	DC AL2(0001)	
003782	0000	2877	DC A(0008)	
000010	2901+B48	16	BIT 0	HEX 8
000011	2902+B49	17	BIT 1	HEX 4
000012	2903+B50	18	BIT 2	HEX 2
000013	2904+B51	19	BIT 3	HEX 1
000014	2905+B52	20	BIT 4	HEX 8
000015	2906+B53	21	BIT 5	HEX 4
000016	2907+B54	22	BIT 6	HEX 2
000017	2908+B55	23	BIT 7	HEX 1
000018	2909+B56	24	BIT 8	HEX 8
000019	2910+B57	25	BIT 9	HEX 4
00001A	2911+B58	26	BIT 10	HEX 2
00001B	2912+B59	27	BIT 11	HEX 1
00001C	2913+B60	28	BIT 12	HEX 8
00001D	2914+B61	29	BIT 13	HEX 4
00001E	2915+B62	30	BIT 14	HEX 2
00001F	2916+B63	31	BIT 15	HEX 1
000010	2917+CH	30	BIT 14	HEX 2
000011	2918+CM	31	BIT 15	HEX 1
00001F	2920+OPTN3	DC	X'0000'	
003784	0000	2921**	DC	
		2922**	0 MYSTERY INTERRUPT	MI 8
		2923**	1 ERROR INTERRUPT	ER 9
		2924**	2 EXPECTED INTERRUPT	XI 10
		2925**	3 INTERRUPT RECEIVED	IN 11
		2926**		
		2927**	4 EXPECTED ERR/ATTENT	XE 12
		2928**	5 HARD ERROR FOUND	HE 13
		2929**	6 WRONG INTR LEVEL	SLE 14
		2930**	7 NO INTR EXPECTED	NI 15
		2931**		

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
000020		2932+MI	EQU 32	0 8 MYSTERY INTERRUPT HAPPENED
000021		2933+ER	EQU 33	1 4 ERROR RECEIVED ON INTERRUPT
000022		2934+XI	EQU 34	2 1 EXPECTED INTERRUPT CONTROL BIT
000023		2935+IN	EQU 35	3 1 INTERRUPT RECEIVED CONTROL BIT
000024		2936+XE	EQU 36	4 8 EXPECTED ERROR RESPONSE
000025		2937+HE	EQU 37	5 4 HARD ERROR RETRIES
000026		2938+SLE	EQU 38	6 2 INTERRUPT ON WRONG LEVEL ERROR
000027		2939+NI	EQU 39	7 1 NO INTERRUPT EXPECTED
000028		2940+CS	EQU 40	8 8 CYCLE STATUS IN PROGRESS
000029		2941+CSA	EQU 41	9 4 CYCLE STEAL AVAILABLE
00002A		2942+CE	EQU 42	10 2 CYCLE STEAL STATUS INERRRUPT ERROR
00002B		2943+ISBON	EQU 43	11 1 ISB BITS ON (1-7)
00002C		2944+NG	EQU 44	12 8 TEST UNIT RESULTS NO GOOD
00002D		2945+IOCC	EQU 45	13 4 OIO CC ERROR
00002E		2946+NOIN	EQU 46	14 2 NO INTERRUPT
00002F		2947+INCC	EQU 47	15 1 INTERRUPT CC ERROR
2948**		2949**		
2950**			COMMON BUFFER FOR PRINTING DATA	
003786	0000	2950+\$TUID	DC A(*-*)	TEST UNIT IDENTIFICATION
003788	0000	2953+\$IOIN	DC A(*-*)	I/O AND INTR CONDITION CODES
00378A	0000	2954+\$ISB	DC A(*-*)	R7, INTR STATUS BYTE & DEV ADRS
00378C	0000	2955+\$LSTIO	DC A(*-*)	ADRS OF LAST I/O + 4 BYTES
00378E	0000	2956+DEV1	DC A(*-*)	DEVICE DEPENDENT DATA
003790	0000	2957+DEV2	DC A(*-*)	*
003792	0000	2958+DEV3	DC A(*-*)	*
003794	0000	2959+DEV4	DC A(*-*)	*
003796	0000	2960+\$CTID	EQU DEV1	CS STATUS ERROR ISB & INTR CC
003798	0000	2961+\$DIBUF	EQU *	READ ID BUFFER FOR IBIS & TERN
003799	0000	2962+\$DCB1	DC A(*-*)	DCB BUFFER FOR LAST DCB USED
00379A	0000	2963+\$DCB2	DC A(*-*)	LAST DCB TABLE, CONTROL WORD
00379B	0000	2964+\$DCB3	DC A(*-*)	LAST DCB TABLE, DEV DEP WORD
00379C	0000	2965+\$DCB4	DC A(*-*)	LAST DCB TABLE, DEV DEP WORD
00379E	0000	2966+\$DCB5	DC A(*-*)	LAST DCB TABLE, DEV DEP WORD
0037A0	0000	2967+\$DCB6	DC A(*-*)	LAST DCB TABLE, CHAIN ADRS
0037A2	0000	2968+\$DCB7	DC A(*-*)	LAST DCB TABLE, BYTE COUNT
0037A4	0000	2969+\$DCB8	DC A(*-*)	LAST DCB TABLE, BUFFER ADDRESS
2970**				
0037A6	0000	2971+\$CSBUF	EQU *	CYCLE STEAL DATA BUFFER
0037A8	0000	2972+\$CSTL1	DC A(*-*)	CS STATUS WD 0, RESIDUAL ADDRESS
0037AA	0000	2973+\$CSTL2	DC A(*-*)	CS STATUS WD 1, RETRY COUNT
0037AC	0000	2974+\$CSTL3	DC A(*-*)	CS STATUS WD 2, RETRY CNT WD 1
0037AE	0000	2975+\$CSTL4	DC A(*-*)	CS STATUS WD 3, RETRY CNT WD 2
0037B0	0000	2976+\$CSTL5	DC A(*-*)	CS STATUS WD 4, ERROR STATUS WD 1
0037B2	0000	2977+\$CSTL6	DC A(*-*)	CS STATUS WD 5, ERROR STATUS WD 2
0037B4	0000	2978+\$CSTL7	DC A(*-*)	CS STATUS WD 6, LAST DCB ADDRESS
0037B6	0000	2979+\$CSTL8	DC A(*-*)	CS STATUS WD 7, PREVIOUS HD/CYL
0037B8	0000	2980+\$CSTL9	DC A(*-*)	CS STATUS WD 8, CURRENT HD/CYL
0037BA	0000	2981+\$CST10	DC A(*-*)	CS STATUS WD 9, FLAG/SECTOR
0037BC	0000	2982+\$CST11	DC A(*-*)	CS STATUS WD 10, HEAD/CYLINDER
0037BE	0000	2983+\$CST12	DC A(*-*)	CS STATUS WD 11, DIAG BYTES 1, 2
2984**		2984+\$CST13	DC A(*-*)	CS STATUS WD 12, AND 3 + WRAP BYTE
2985**				
0037C0	0000	2986+\$SUBN	DC A(*-*)	LAST SUBROUTINE ADDRESS USED
0037C2	00000000	2987+\$DATA	DC 2A(*-*)	OPTIONAL DATA
0037C6	0021	2988+\$INTRL	DC X'0021'	INTRPT LEVEL REQUESTED
0037C8	0000	2989+\$TRTN	DC A(*-*)	TEST UNIT RETURN ADRS TO MDI
0037CA	00	2990+\$VID	DC X'00'	DEVICE ID
0037CC	19D0	2991+\$VVAL	DC A(DEVADD)	ADRS OF DEVICE ADDRESS
0037CE	0000	2992**		IBIS CYLINDER ADDRESS
2993**				
2994**			THIS TEST UNIT WILL RETURN TO MDI WITHOUT DOING ANY PROGRAM	
2995**			FUNCTION. THE RESULTS THAT WERE SET UP IN THE RESULTS AREA ARE	
2996**			STILL VALID BUT A DIFFERENT TEST IS TO BE PERFORMED.	
2997**				
0037D0	4020 3786 7A02	2998+\$T7A02	MVWI X'7A02', \$TUID	SET UP TEST UNIT ID
0037D6	5700	2999**	BXS (R7)	RETURN TO MDI SUPVR
3002			COPY COMEQU	
3003	*			
3004	*		EQUATED NAMES FOR SUPPORTED SVC'S	
3005	*			
3006	*			
3007	OUT	EQU 0		OUT SVC
3008	OUTIN	EQU 1		OUTIN SVC
3009	IDLE	EQU 2		IDLE SVC
3010	IDLE5	EQU 3		IDLE SVC - INDEPENDENT OF CPU TYPE
3011	CHNGE	EQU 4		CHANGE LEVEL SVC
3012	PGMCK	EQU 5		ALLOW RETURN ON PROGRAM CHECK SVC
3013	EXIT	EQU 6		EXIT SVC
3014	TERM	EQU 7		TERMINATE SVC
3015	RESET	EQU 8		RESET DEVICE SVC
3016	RID	EQU 9		READ ID SVC
3017	START	EQU 10		START CYCLE STEAL SVC
3018	STCSS	EQU 11		START CYCLE STEAL STATUS SVC
3019	PREP	EQU 12		PREPARE DEVICE SVC
3020	READ0	EQU 13		READ WITH FUNCTION BIT 3 OFF SVC
3021	READ1	EQU 14		READ WITH FUNCTION BIT 3 ON SVC
3022	RSTAT	EQU 15		READ STATUS SVC
3023	WRIT0	EQU 16		WRITE WITH FUNCTION BIT 3 OFF SVC
3024	WRIT1	EQU 17		WRITE WITH FUNCTION BIT 3 ON SVC
3025	CTRL	EQU 18		CONTROL SVC
3026	RICB	EQU 19		RELEASE INTERRUPT CONTROL BLOCK SVC
3027	CICB	EQU 20		CONNECT INTERRUPT CONTROL BLOCK SVC
3028	HIO	EQU 21		HALT I/O
3029	REQSD	EQU 22		REQUEST USE OF DCP DISK SVC
3030	RELSD	EQU 23		RELEASE USE OF DCP DISK SVC
3031	HALT	EQU 24		HALT SVC
3032	ETOH	EQU 25		EBCDIC TO HEX SVC (STRING)
3033	HTOE	EQU 26		HEX TO EBCDIC SVC (STRING)
3034	ATOH	EQU 27		ASCII TO HEX SVC (STRING)
3035	HTOA	EQU 28		HEX TO ASCII SVC (STRING)
3036	ETOA	EQU 29		EBCDIC TO ASCII SVC (STRING)
3037	ATOE	EQU 30		ASCII TO EBCDIC SVC (STRING)
3038	READI	EQU 31		READ DATA SETS FOR MDI/UTIL
3039	WRITI	EQU 32		WRITE DATA SETS FOR UTIL
3041	*			
3042	*			
3043	*			
3044	*			
3045	*			
3046	PLUS	EQU C'+'		PLUS CHAR
3047	MINUS	EQU C-'		MINUS CHAR
3049	ZERO	EQU 0		

LOCTR OBJECT TEXT STMT SOURCE STATEMENT
000001 3050 ONE EQU 1
000002 3051 TWO EQU 2
000003 3052 THREE EQU 3
000004 3053 FOUR EQU 4
000005 3054 FIVE EQU 5
000006 3055 SIX EQU 6
000007 3056 SEVEN EQU 7
000008 3057 EIGHT EQU 8
000009 3058 NINE EQU 9
00000A 3059 TEN EQU 10
00000B 3060 ELEVN EQU 11
00000C 3061 TWELV EQU 12
00000D 3062 THRRTN EQU 13
00000E 3063 FIVTN EQU 15
000010 3064 SIXTN EQU 16
000020 3065 THRY2 EQU 32
000040 3066 SIXT4 EQU 64
000080 3067 ONE28 EQU 128
000100 3068 TWOS6 EQU 256
000400 3069 ONEK EQU 1024
000800 3070 TWOK EQU 2048
000C00 3071 THREK EQU 3072
001000 3072 FOURK EQU 4096
001000 3074 M1 EQU -1
001000 3075 M2 EQU -2
001000 3076 M3 EQU -3
001000 3077 M4 EQU -4
001000 3079 \*\*\*\*\*
001000 3080 \*
001000 3081 \* THE FOLLOWING ARE EQUATES FOR BIT DISPLACEMENTS FROM THE
001000 3082 \* BEGINNING OF THE BYTE TO EACH BIT IN THE WORD OF SWITCHES.
001000 3083 \*
001000 3084 \*\*\*\*\*
001000 3085 BS0 EQU 0
001000 3086 BS1 EQU 1
001000 3087 BS2 EQU 2
001000 3088 BS3 EQU 3
001000 3089 BS4 EQU 4
001000 3090 BS5 EQU 5
001000 3091 BS6 EQU 6
001000 3092 BS7 EQU 7
001000 3093 BS8 EQU 8
001000 3094 BS9 EQU 9
001000 3095 BS10 EQU 10
001000 3096 BS11 EQU 11
001000 3097 BS12 EQU 12
001000 3098 BS13 EQU 13
001000 3099 BS14 EQU 14
001000 3100 BS15 EQU 15
001000 3102 COPY T7A00DCB 23JAN78
001000 3103 \*\* (T7A00DCB)
001000 3104 \*
001000 3105 \*\*\*\*\*4/28/77\*\*\*\*\*
001000 3106 \*
001000 3107 \* DCB TABLES AND DC'S
001000 3108 \*
001000 3109 \*\*\*\*\*
001000 3110 \*
001000 3111 \*\*\*\*\* DIAGNOSTIC DCB \*\*\*\*\*
001000 3112 \*
001000 3113 DGDCB DC X'2008' DIAGNOSTIC DCB
001000 3114 DC A(\*-\*) FLAG / PHYSICAL SECTOR#
001000 3115 DC A(\*-\*) HEAD / CYLINDER#'S
001000 3116 DC X'0000' NOT USED
001000 3117 DC A(RSBA) RSB ADDRESS
001000 3118 DC A(\*-\*) CHAINING ADDRESS
001000 3119 DC X'0100' BYTE COUNT
001000 3120 DC A(\*-\*) DATA ADDRESS
001000 3121 \*
001000 3122 \*\*\*\*\* RECALIBRATE DCB \*\*\*\*\*
001000 3123 \*
001000 3124 CLDCB DC X'0001' RECALIBRATE DCB
001000 3125 DC 7A(\*-\*)
001000 3126 \*
001000 3127 \*\*\*\*\* WRITE SECTOR ID \*\*\*\*\*
001000 3128 \*
001000 3129 WSDCB DC X'002D' WRITE SECTOR ID CNTL WORD
001000 3130 DC A(\*-\*) FLAG / PHYSICAL SECTOR#
001000 3131 DC A(\*-\*) HEAD / CYLINDER#'S
001000 3132 DC X'0000' NOT USED
001000 3133 DC A(RSBA) RSB ADDRESS
001000 3134 DC A(\*-\*) CHAIN ADDRESS
001000 3135 DC X'0004' BYTE COUNT
001000 3136 DC A(WRSID) ADDR OF SECTOR ID DATA
001000 3137 \*
001000 3138 \*\*\*\*\* READ SECTOR ID DCB \*\*\*\*\*
001000 3139 \*
001000 3140 RSDCB DC X'201C' READ SECTOR ID CNTL WORD
001000 3141 DC A(\*-\*) FLAG / PHYSICAL SECTOR#
001000 3142 DC X'0000' HEAD / CYLINDER#'S
001000 3143 DC X'0000' NOT USED
001000 3144 DC A(RSBA) RSB ADDRESS
001000 3145 DC A(\*-\*) CHAIN ADDRESS
001000 3146 DC X'0004' BYTE COUNT
001000 3147 DC A(SCTID) SECTOR ID DATA ADDRESS
001000 3148 \*
001000 3149 \*\*\*\*\* SEEK DCB \*\*\*\*\*
001000 3150 \*
001000 3151 SKDCB DC X'0000' SEEK DCB CONTROL WORD
001000 3152 DC X'0000' NOT USED
001000 3153 DC A(\*-\*) HEAD / CYLINDER#'S
001000 3154 DC X'0000' NOT USED
001000 3155 DC A(RSBA) RSB ADDRESS
001000 3156 DC A(\*-\*) CHAIN ADDRESS
001000 3157 DC X'0000' NOT USED
001000 3158 DC X'0000' NOT USED
001000 3159 \*
001000 3160 \*\*\*\*\* CYCLE STEAL STATUS DCB \*\*\*\*\*
001000 3161 \*
001000 3162 CSDCB DC X'2000' CONTROL WORD
001000 3163 DC F'0' NOT USED
001000 3164 DC F'0' NOT USED
001000 3165 DC F'0' NOT USED
001000 3166 DC F'0' NOT USED

LOCTR OBJECT TEXT STMT SOURCE STATEMENT
003832 0000 3167 DC F'0' NOT USED
003833 0000 3168 DC X'001A' 13 WORDS OF STATUS
003834 001A 3169 DC A(CSBUF) ADDRESS OF CYCLE STEAL STATUS DATA
003836 37A6 3170 \*
003838 0028 3171 \*\*\*\*\* WRITE DCB \*\*\*\*\*
003839 0000 3172 \*
00383E 0000 3173 WRDCB DC X'0028' WRITE DATA DCB CNTL WORD
00383E 0000 3174 DC A(\*-\*) FLAG / RECORD#
00383E 0000 3175 DC A(\*-\*) HEAD / CYLINDER#'S
00383E 0000 3176 DC A(\*-\*) SCAN / REPEAT COUNT
003840 38B2 3177 DC A(RSBA) RSB ADDRESS
003842 0000 3178 DC A(\*-\*) CHAIN ADDRESS
003844 0100 3179 DC X'0100' BYTE COUNT
003846 0000 3180 DC A(\*-\*) WRITE DATA ADDRESS
003848 0019 3181 \*
003848 0000 3182 \*\*\*\*\* VERIFY DCB \*\*\*\*\*
003848 0000 3183 \*
00384E 0000 3184 VRDCB DC X'0019' CONTROL WORD
00384E 0000 3185 DC A(\*-\*) FLAG / RECORD#
00384E 0000 3186 DC A(\*-\*) HEAD / CYLINDER#'S
00384E 0000 3187 DC A(\*-\*) SCAN / REPEAT COUNT
003850 38B2 3188 DC A(RSBA) RSB ADDRESS
003852 0000 3189 DC A(\*-\*) CHAIN ADDRESS
003854 0000 3190 DC A(\*-\*) BYTE COUNT
003856 0000 3191 DC F'0' NOT USED
003858 2018 3192 \*
003858 0000 3193 \*\*\*\*\* READ DCB \*\*\*\*\*
003858 0000 3194 \*
00385A 0000 3195 RDDCB DC X'2018' READ DCB CONTROL WORD
00385A 0000 3196 DC A(\*-\*) FLAG / RECORD#
00385E 0000 3197 DC A(\*-\*) HEAD / CYLINDER#'S
00385E 0000 3198 DC A(\*-\*) SCAN / REPEAT COUNT
003860 38B2 3199 DC A(RSBA) RSB ADDRESS
003862 0000 3200 DC A(\*-\*) CHAIN ADDRESS
003864 0100 3201 DC X'0100' BYTE COUNT
003866 0000 3202 DC A(\*-\*) READ DATA ADDRESS
003868 002F 3203 \*
003868 0000 3204 \*\*\*\*\* WRITE SECTOR ID SKEWED \*\*\*\*\*
003868 0000 3205 \*
00386C 0000 3206 WKDCB DC X'002F' CONTROL WORD
00386C 0000 3207 DC A(\*-\*) FLAG / PHYSICAL SECTOR#
00386E 0000 3208 DC A(\*-\*) HEAD / CYLINDER#'S
00386E 0000 3209 DC F'0' NOT USED
003870 0000 3210 DC A(RSBA) RSB ADDRESS
003872 0000 3211 DC A(\*-\*) CHAIN ADDRESS
003874 0004 3212 DC X'0004' BYTE COUNT
003876 38A6 3213 DC A(WRSID) ADDR OF SECTOR ID DATA
003878 201D 3214 \*
003878 0000 3215 \*\*\*\*\* READ SECTOR ID SKEWED \*\*\*\*\*
003878 0000 3216 \*
00387C 0000 3217 RKDCB DC X'201D' CONTROL WORD
00387C 0000 3218 DC A(\*-\*) FLAG / PHYSICAL SECTOR#
00387E 0000 3219 DC A(\*-\*) HEAD / CYLINDER#'S
00387E 0000 3220 DC F'0' NOT USED
003880 38B2 3221 DC A(RSBA) RSB ADDRESS
003882 0000 3222 DC A(\*-\*) CHAIN ADDRESS
003884 0004 3223 DC X'0004' BYTE COUNT
003886 378E 3224 DC A(SCTID) SECTOR ID DATA ADDRESS
003888 201C 3225 \*
003888 0000 3226 \*\*\*\*\* READ MULTIPLE SECTOR IDS \*\*\*\*\*
003888 0000 3227 \*
00388C 0000 3228 RMDCB DC X'201C' CONTROL WORD
00388C 0000 3229 DC A(\*-\*) FLAG / PHYSICAL SECTOR#
00388E 0000 3230 DC A(\*-\*) HEAD / CYLINDER#'S
00388E 0000 3231 DC F'0' NOT USED
003890 38B2 3232 DC A(RSBA) RSB ADDRESS
003892 0000 3233 DC A(\*-\*) CHAIN ADDRESS
003894 0084 3234 DC X'0084' BYTE COUNT
003896 38C2 3235 DC A(ID00) DATA AREA ADDRESS
003898 0000 3236 \*
00389A 0001 3237 \* CONSTANTS AND DEFINED STORAGE LOCATIONS
00389C 0000 3238 ZER00 DC X'0000' CONSTANT ZERO
00389E 0000 3239 ONE1 DC X'0001' CONSTANT ONE
0038A0 0000 3240 RAY DC A(\*-\*) WRITE PARAMETER POINTER
0038A2 6BDB 3241 X'EB6D' WRITE DATA
0038A4 0000 3242 DC X'6BDB' \*
0038A6 0000 3243 LGSEC DC X'0000' LOGICAL SECTOR #
0038A8 0000 3244 PHYS DC X'0000' CONVERTED PHYSICAL SEC #
0038AA 0000 3245 WRSID DC X'0000' FLAG,SECTOR (WRT SECTOR ID DATA)
0038AC FF34 3246 DC X'0000' HEAD,CYLINDER
0038AE 5678 3247 WSIDT DC X'FF34' WRITE SECTOR ID TEST DATA
0038B0 0000 3248 DC X'5678' \*
0038B2 0000 3249 SCTST DC X'0000' READ SECTOR ID TEST DATA BUFFER
0038B4 0000 3250 DC X'0000' \*
0038B6 0000 3251 RSBA DC 6A(\*-\*) RESIDUAL STATUS BLOCK
0038B8 0000 3252 CTR02 DC X'0000' COUNTER
0038BA 0000 3253 CTR03 DC X'0000' COUNTER
0038BC 1010 3254 ID00 DC X'0000' ID ADDRESS TO BE SET BY USER
0038BE 5555 3255 PDATA DC X'1010' WRITE DIAG WORD 1 DATA PATTERNS
0038C0 AAAA 3256 DC X'5555' \*
0038C2 FFFF 3257 DC X'AAAA' \*
0038C4 FFFF 3258 DC X'FFFF' \*
0038C6 \*\*\*\*\*4/06/77\*\*\*\*\*
0038C8 \*
0038CA \* SUBROUTINE
0038CC \*
0038CC \* PURPOSE
0038CC \*
0038CC \* COMPARE READ SECTOR ID DATA TO WRITE SECTOR ID DATA
0038CC \*
0038CC \* CALLING SEQUENCE
0038CC \*
0038CC \* BAL CMPRW,R6 (NORMAL)
0038CC \*
0038CC \* RETURN
0038CC \*
0038CC \* BXS (R6,2) - NORMAL
0038CC \*
0038CC \* \*\*\*\*\*
0038CC 4724 0004 3279 CMPRW MVWI 4,R7 COMPARE BYTE COUNT
0038D0 4324 378E 3280 HVA SCTID,R3 ADDR OF RD SEC ID DATA

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
0038D4	4524 38A6	3281	MVA WRSID,R5	ADDR OF WR SEC ID DATA
0038D8	2BA6	3282	CFNEN (R3), (R5)	COMPARE ID DATA
0038DA	68C0 0002	3283	BE (R6, 2)	BCH IF WRITE ID DATA OK
0038DE	68D2 0000	3284	D (R6)	COMPARE ERROR
		3285		
		3286	*****	*****
		3287		
		3288		
		3289	EXECUTE INPUT & OUTPUT COMMANDS	
		3290	TO EXECUTE ALL I/O COMMANDS FROM A COMMON PLACE.	
		3291	EACH OF THESE ENTRIES SET R7 WITH THE ADRS OF ITS PARAMETER	
		3292	LIST AND ANY SPECIAL SWITCHES BEFORE BRANCHING TO THE	
		3293	SUPVR CALL.	
		3294		
		3295	THIS SUBROUTINE WILL CHECK FOR THE FOLLOWING:	
		3296		
		3297	1. LOST INTERRUPTS BY TIMING OUT A COUNTING LOOP	
		3298	2. ERROR INTERRUPTS RECEIVED FROM SUPVR	
		3299		
		3300	THIS ROUTINE HAS THE FOLLOWING ENTRIES:	
		3301	1 BAL \$RKEW,R6	READ SECTOR ID SKEWED
		3302		
		3303	2 BAL \$WKEW,R6	WRITE SECTOR ID SKEWED
		3304		
		3305	3 BAL \$WSEC,R6	WRITE SECTOR ID
		3306		
		3307	4 BAL \$DIAG,R6	DIAGNOSTIC
		3308		
		3309	5 BAL \$XIOCS,R6	CYCLE STEAL STATUS
		3310		
		3311	6 BAL \$SSEEK,R6	SEEK
		3312		
		3313	7 BAL \$RECL,R6	RECALIBRATE
		3314		
		3315	8 BAL \$RDID,R6	READ SECTOR ID
		3316		
		3317	9 BAL \$RD,R6	READ
		3318		
		3319	10 BAL \$RDVY,R6	READ VERIFY
		3320		
		3321	11 BAL \$SWRT,R6	WRITE
		3322		
		3323	12 BAL \$RDIM,R6	READ MULTI SECTOR IDS
		3324		
		3325	*****	*****
		3326		
0038E2	4020 3AFA 3818	3327	\$SSEEK MVA SKDCB,IODCB	SET UP CONTROL BLOCK FOR SVC CALL
0038E8	507F	3328	J XIO	
		3329		
0038EA	4020 3AFA 37E8	3330	\$RECL MVA CLDCB,IODCB	SET UP BLOCK FOR SVC CALL
0038F0	507B	3331	J XIO	
		3332		
0038F2	4020 3AFA 3808	3333	\$RDID MVA RSDCB,IODCB	SET UP BLOCK FOR SVC CALL
0038F8	0BFF	3334	MVBI X'BB',R3	SET BUFFER TO B'S
0038FA	4524 378E	3335	MVA SCTID,R5	SETUP READ SECTOR ID BUFFER ADRS
0038FE	4724 0004	3336	MVWI 4,R7	SETUP BUFFER LENGTH
003902	2BAC	3337	FPN R3,(R5)	INIT READ SECTOR ID BUFFER
003904	4020 3816 378E	3338	MVA SCTID,RSDCB+14	DATA ADDR
00390A	506E	3339	J XIO	
		3340		
00390C	4020 3AFA 3888	3341	\$RDIM MVA RMDCB,IODCB	SET UP CONTROL BLOCK FOR SVC CALL
003912	4724 0084	3342	MVWI 132,R7	SET BUFFER LENGTH
003916	4524 38C2	3343	MVA ID00,R5	SET BUFFER ADDRESS
00391A	0BBB	3344	MVBI X'BB',R3	SET CLEAR CHARACTERS
00391E	2BAC	3345	FPN R3,(R5)	CLEAR THE BUFFER
00391E	5064	3346	J XIO	
		3347		
003920	0BFF	3348	\$RD MVBI X'FF',R3	SETRD BUFFER TO ALL F'S
003922	6D08 3866	3349	MVW RDDCB+14,R5	SET UP READ BUFFER ADRS
003926	6F08 3864	3350	MVW RDDCB+12,R7	SET UP BUFFER LENGTH
00392A	2BAC	3351	FPN R3,(R5)	CLEAR READ BUFFER
00392C	4020 3AFA 3858	3352	\$RDS MVA RDCB,IODCB	SET UP BLOCK FOR SVC CALL
003932	505A	3353	J XIO	
		3354		
003934	4020 3AFA 3848	3355	\$RDVY MVA VRDCB,IODCB	SET UP CONTROL BLOCK FOR SVC CALL
00393A	5056	3356	J XIO	
		3357		
00393C	4020 3AFA 3838	3358	\$SWRT MVA WRDCB,IODCB	SET UP CONTROL BLOCK FOR SVC CALL
003942	5052	3359	J XIO	
		3360		
003944	4020 3AFA 3878	3361	\$RKEW MVA RKDCB,IODCB	SET UP CONTROL BLOCK FOR SVC CALL
00394A	0BBB	3362	MVBI X'BB',R3	SET BUFFER TO B'S
00394C	4524 378E	3363	MVA SCTID,R5	SETUP READ SECTOR ID BUFFER ADRS
003950	4724 0004	3364	MVWI 4,R7	SETUP BUFFER LENGTH
003954	2BAC	3365	FPN R3,(R5)	INIT READ SECTOR ID BUFFER
003956	4020 3886 378E	3366	MVA SCTID,RKDCB+14	DATA ADDR
00395C	5045	3367	J XIO	
		3368		
00395E	4020 3AFA 3868	3369	\$WKEW MVA WKDCB,IODCB	SET UP CONTROL BLOCK FOR SVC CALL
003964	4020 3876 38A6	3370	MVA WRSID,WKDCB+14	DATA ADDR
00396A	503E	3371	J XIO	
		3372		
00396C	4020 3AFA 37F8	3373	\$WSEC MVA WSDCB,IODCB	SET UP CONTROL BLOCK FOR SVC CALL
003972	4020 3806 38A6	3374	MVA WRSID,WSDCB+14	DATA ADDR
003978	5037	3375	J XIO	
		3376		
00397A	4020 3AFA 37D8	3377	\$DIAG MVA DGDCB,IODCB	SET UP CONTROL BLOCK FOR SVC CALL
003980	5033	3378	J XIO	
		3379		
003982	6E0D 378C	3380	\$WRTO MVW R6,LSTIO	SAVE IAR FOR RETRY IF REQUESTED
003986	0BFF	3381	MVBI 255,R3	CLEAR CYCLE STATUS BUFFER
003988	4524 37A6	3382	MVA CSBUF,R5	* TO ALL ONES *
00398C	0F16	3383	MVBI 22,R7	*
00398E	2BAC	3384	FPN R3,(R5)	*
003990	4524 3796	3385	MVA DCBUF,R5	CLEAR DCB BUFFER TO ALL ONES
003994	0F10	3386	MVBI 16,R7	*
003996	2BAC	3387	FPN R3,(R5)	*
003998	4020 3788 0708	3388	MVWI X'0708', \$IOIN	OVERLAY OLD CONDITION CODES
00399E	CB25 378A	3389	MVWZ \$ISB,R3	ZERO OUT OLD ISB VALUE
0039A2	4CA3	3390	TBTR (R4,IN)	CLEAR INTERRUPT RECEIVED CNTL BIT
0039A4	4CA1	3391	TBTR (R4,ER)	RESET ANY ERROR BEFORE I/O COMMAND
0039A6	4C62	3392	TBTS (R4,XI)	SET UP CONTROL BLK FOR SUPR
0039A8	4724 3AF6	3393	MVBI IOBK,R7	SET UP CONTROL BLK FOR SUPR
0039AA	C020 3AFD	3394	MVB IOMOD,R1	GET DCB FUNC/MODIFIER
0039AB	4020 3AFC 00F0	3395	RBTWI X'00F0', IOMOD	REMOVE FUNCTION FROM 'IOMOD'

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
003986	3022	3396	SRL 4,R0	RIGHT JUSTIFY FUNCTION BITS IN R0
003988	F005	3397	CBI 5,R0	IDCB FUNCTION = 5?
00398A	1003	3398	JE \$WRT1	YES - ISSUE 'SVC WRIT1'
00398C	6010	3399	SVC WRIT0	ISSUE WRITE DPC '4X' OP
00398E	6802 3A42	3400	B XIO8-4	GO WAIT FOR THE INTERRUPT
0039C2	6011	3401	\$WRT1 SVC WRIT1	ISSUE WRITE DPC '5X' OP
0039C4	6802 3A42	3402	B XIO8-4	GO WAIT FOR THE INTERRUPT
		3403	*	
0039C8	4020 3AFA 3838	3404	\$DGWR MVA WRDCB,IODCB	SET UP CONTROL BLK FOR SVC CALL
0039CE	6802 39EE	3405	B XIOGD	ISSUE START CS DIAG CMD
		3406	*	
0039D2	4020 3AFA 3858	3407	\$DGRD MVA RDCB,IODCB	SET UP CONTROL BLK FOR SVC CALL
0039D8	6F08 3864	3408	MVW RDCB+12,R7	GET NO. OF BYTES TO CLEAR
0039DC	6D08 3866	3409	MVW RDCB+14,R5	ADDR OF READ BUFFER
0039E0	0BFF	3410	MVBI X'FF',R3	CLEAR TO F'S
0039E2	2BAC	3411	FPN R3,(R5)	*
0039E4	6802 39EE	3412	B XIOGD	ISSUE START CS DIAG CMD
		3414	COPY T7AXEQ	09MAR78
		3415	PRINT OFF	
		3416	T7AXEQ	
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LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
003A4E 7DA1 0001 4075+ AWI 1,R5 ADVANCE TIME OUT COUNT
003A52 18F9 4076+ JNZ X108 BCH IF TIME OUT NOT REACHED
003A54 4C61 4077+ TBT (R4,ER) SET ON ERROR CONTROL BIT
003A56 68D2 0000 4078+ B (R6)\* ERR 'NO INTERRUPT'

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
003A96 1204 4192+ JON INTR2 \* YES, BCH AROUND UPDATE
003A98 C328 3789 4193+ MVB R3,\$IOIN+1 SAVE INTERRUPTING CC CODE
003A9C 6F0D 378A 4194+ MVB R7,\$ISB SAVE INTR STATUS AND DEV ADRS



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LOCTR OBJECT TEXT      STMT SOURCE STATEMENT      COPYRIGHT IBM CORP 1976
4309**      BEEN FOUND TO HELP THE OPERATOR DEFINE THE ERROR CONDITION.
4310**
4311**      CALLING SEQUENCE
4312**
4313**      THIS SUBROUTINE HAS THE FOLLOWING ENTRIES:
4314**
4315**      --> B   $ERRS      SET 'NG' BIT AND CONVERT DATA TO LOG
4316**      --> B   $CONX      RETURN TO MDI SUPERVISOR TO TEST STS
4317**
4318**      RETURN CONTROL
4319**
4320**      B   TURTN*      RETURN TO MDI
4321**      OR B   (R6)*    IF THE DEVICE COULD NOT BE CONNECTED
4322**
4323**      *****
4324**      $ERRS MVWI X'8000',TUSTATUS SET ON 'NO GOOD' STATUS BIT
4325**      MVA  HEBLK,R7      GET ADRS OF CONTROL BLOCK
4326**      SVC  HTOE          CONVERT HEX TO EBC VIS DCP
4327**      MVWI X'4040',TUWORK+116
4328**      MVWI X'4040',TUWORK+118
4329**      MVWI X'4040',TUWORK+120
4330**      $PRNT MVBI 4,R5
4331**      MVA  TUWORK,R3      SET UP BUFFER STORAGE
4332**      MVW  R3,BUFPT
4333**      MVA  LINE1,R1
4334**      MVBI 4,R7
4335**      MVBI 8,R6
4336**      MVFN (R3),(R1)
4337**      MVBI 4,R7
4338**      MVBI X'40',R2
4339**      MVB  R2,(R1)+
4340**      JCT  MVBUF,R6
4341**      MVBI 8,R1
4342**      ARI  44,R1
4343**      JCT  MVBUF,R5
4344**      MVWI PIDMSG10,PID+2
4345**      MVA  FAKETU,@DCADD1
4346**      MVA  DC2PT,@DCADD2
4347**      OWI  BIT0080,SUPSTAT
4348**      MVA  $TUID,R3      SET UP BUFFER STORAGE
4349**      BAL  TUMSGWTR*,R7 GO TO MESSAGE WRITER
4350**
4351**      $CONX EQU  *
4352**      MVB  DEVADD,R7      GET DEVICE ADDRESS FROM MDI
4353**      SVC  RIBC          RELEASE INTERRUPT CONTROL BLOCK
4354**      B   TURTN*      RETURN TO MDI SUPERVISOR
4355**
4356**      BEGIN DC  A(0009)      NUMBER OF LINES TO PRINT
4357**      DC  A(0008)      LINE LENGTH = 8 CHAR
4358**      DC  C'** ABORT'
4359**      DC  A(0040)      LINE LENGTH = 40 CHAR
4360**      DC  C'TUID IOIN ISB INST SECT ID DATA CSCC '
4361**      DC  A(0040)      LINE LENGTH = 40 CHAR
4362**      DC  C'
4363**      DC  A(0040)      LINE LENGTH = 40 CHAR
4364**      DC  C'CNTRL DCB1 DCB2 DCB3 DCB4 CHAD BYCT ADRS '
4365**      DC  A(0040)      LINE LENGTH = 40 CHAR
4366**      DC  C'
4367**      DC  A(0040)      LINE LENGTH = 40 CHAR
4368**      DC  C'CS-0 CS-1 CS-2 CS-3 CS-4 CS-5 CS-6 CS-7 '
4369**      DC  A(0040)      LINE LENGTH = 40 CHAR
4370**      DC  C'
4371**      DC  A(0040)      LINE LENGTH = 40 CHAR
4372**      DC  C'CS-8 CS-9 CS-A CS-B CS-C '
4373**      DC  A(0040)      LINE LENGTH = 40 CHAR
4374**      DC  C'
4375**
4376**      BUFPT DC  A(*-*)
4377**      DC2PT DC  A(BEGIN)
4378**      FIXTU  DC  X'0101'
4379**      FAKETU DC  X'0101'
4380**      PIDMSG10 EQU X'F1F0'
4381**      BIT0080 EQU X'0080'
4382**
4383**      DATA CONTROL BLOCK FOR CONVERTING HEX TO EBCDIC
4384**
4385**      HEBLK DC  A(58)      NUMBER OF BYTES TO CONVERT
4386**      DC  A($TUID)      FROM ADRS
4387**      DC  A(TUWORK)     AND THE TO ADRS
4388**      COPY T7A10 23JAN78
4389**      T7A10 TUIT
4390**      *****06FEB76**
4391**
4392**      TEST UNIT
4393**
4394**      ERROR HALT CODE/DIAG SENSE BYTE CHECK
4395**
4396**      PURPOSE
4397**
4398**      TO MOVE THE ERROR HALT CODE, STATUS BYTE, AND DIAG BYTES 1,2 3
4399**      TO THE TU RESULTS BUFFER (TURESUL).
4400**
4401**      MDI=$TUXX,T7A10,01,0708,EQ
4402**
4403**      TURESUL BIT(S) 0-7 ..... ERROR HALT CODE
4404**      . 8-15 ..... STATUS (SENSE) BYTE
4405**      . 16-23 ..... SINGLE SHOT BYTE 1 (5-HURSLEY)
4406**      . 24-31 ..... SINGLE SHOT BYTE 2 (6-HURSLEY)
4407**      . 32-39 ..... SINGLE SHOT BYTE 3 (7-HURSLEY)
4408**      . 48-55 ..... NOT USED
4409**      . 56-63 ..... MULTISAMPLE BYTE 1 (5-HURSLEY)
4410**      . 64-71 ..... MULTISAMPLE BYTE 2 (6-HURSLEY)
4411**      . 72-79 ..... MULTISAMPLE BYTE 3 (7-HURSLEY)
4412**      . 80-87 ..... WRAP BYTE
4413**
4414**      CALLING SEQUENCE
4415**
4416**      MVW  TUWORK,TURESUL MOVE ERROR HALT CODE & STATUS BYTES
4417**      MVD  TUWORK+6,TURESUL+2 SINGLE SHOT BYTES 1, 2, AND 3
4418**      MVD  TUWORK+10,TURESUL+6 MULTISAMPLE BYTES 1, 2, AND 3
4419**      AND WRAP BYTE
4420**      RETURN CONTROL
4421**
4422**      B   TURTN*      RETURN TO MDI SUPERVISOR

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LOCTR OBJECT TEXT      STMT SOURCE STATEMENT      COPYRIGHT IBM CORP 1976
4423**
4424**      *****
4425**      T7A10 MVW  R7,TURTN      SAVE RETURN ADDRESS
4426**      MVWI X'7A10', $TUID      SAVE TU ID FOR DISPLAY
4427**      MVA  OPTN1,R4      SET UP POINTER ADRS IN R4
4428**      BAL  $CONC,R6      CLEAR DEV DEP STG AND CONNECT I/O BL
4429**      DC  A($ERRS)      ERROR ADRS FOR INVALID PREP
4430**
4431**      MVD  TUWORK+2,TURESUL+10 MOVE ERROR WORDS 4,5
4432**      MVB  TUWORK+13,TURESUL+5 MOVE WRAP CHECK RESULTS
4433**      TXIT
4434**      B   $CONX      RETURN TO MDI CONTROLLER
4435**      *****
4437**      END
000000
003D14 6F0D 37C8
003D18 4020 3786 7A10
003D1E 4424 3780
003D22 6E03 3B0A
003D26 3B3E
003D28 9028 181C 18D2
003D2E 8028 1827 18CD
003D34 6802 3BA0
000000

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DECLARED	NAME	ATTRIBUTES AND REFERENCES	CROSS-REFERENCE LISTING	COPYRIGHT IBM CORP 1976
4282	\$CONC	ADDRESS. HEX LOCATION (00003B0A) IN CSECT (I7A22 ) LENGTH(2)		
4351	\$CONX	ADDRESS. HEX LOCATION (00003BA0) IN CSECT (I7A22 ) LENGTH(1)		
4324	\$ERR\$	ADDRESS. HEX LOCATION (00003B3E) IN CSECT (I7A22 ) LENGTH(6)		
2988	\$INTL	ADDRESS. HEX LOCATION (000037C6) IN CSECT (I7A22 ) LENGTH(2)		
2953	\$IOIN	ADDRESS. HEX LOCATION (00003788) IN CSECT (I7A22 ) LENGTH(2)		
2954	\$ISB	ADDRESS. HEX LOCATION (0000378A) IN CSECT (I7A22 ) LENGTH(2)		
2938	\$LE	ABSOLUTE. HEX VALUE (00000026)		
2952	\$TUID	ADDRESS. HEX LOCATION (00003786) IN CSECT (I7A22 ) LENGTH(2)		
3401	\$WRT1	ADDRESS. HEX LOCATION (000039C2) IN CSECT (I7A22 ) LENGTH(2)		
102	@DCADD1	ADDRESS. HEX LOCATION (000019B8) IN CSECT (I7A22 ) LENGTH(1)		
103	@DCADD2	ADDRESS. HEX LOCATION (000019BA) IN CSECT (I7A22 ) LENGTH(1)		
39	@FIXT	ABSOLUTE. HEX VALUE (00000101)		
		1116 1143 1146 1149 1152 1155 1158 1161 1164		
		1167 1182 1197 1200 1215 1218 1257 1272 1287		
		1290 1341 1344 1347 1362 1365 1392 1431 1434		
		1485 1488 1491 1494 1497 1500 1503 1530 1533		
		1572 1575 1602 1605 1608 1623 1626 1665 1668		
		1707 1710 1713 1752 1767 1770 1773 1776 1779		
		1854 1869 1872 1899 1926 1941 1956 1959 1962		
		1965 1992 2007 2034 2037 2040 2067 2070 2121		
		2148 2151 2154 2157 2172 2175 2178 2217 2232		
		2382 2409 2412 2427 2430 2433 2448 2475 2490		
41	@GOTO	ABSOLUTE. HEX VALUE (00000200)		
45	@TUXX	ABSOLUTE. HEX VALUE (00000500)		
		966 978 996 1008 1020 1032 1044 1056 1068		
		1080 1092 1104 1119 1131 1170 1185 1203 1221		
		1233 1245 1260 1275 1293 1305 1317 1329 1350		
		1368 1380 1395 1407 1419 1437 1449 1461 1473		
		1506 1518 1536 1548 1560 1578 1590 1611 1629		
		1644 1653 1671 1683 1695 1716 1728 1740 1755		
		1782 1794 1806 1818 1830 1842 1857 1875 1887		
		1902 1914 1928 1944 1968 1980 1995 2010 2022		
		2043 2055 2073 2085 2097 2109 2124 2136 2150		
		2181 2193 2205 2220 2238 2259 2271 2283 2295		
		2307 2322 2334 2358 2370 2385 2397 2415 2436		
4356	BEGIN	ADDRESS. HEX LOCATION (00003BAA) IN CSECT (I7A22 ) LENGTH(2)		
4381	BIT0080	ABSOLUTE. HEX VALUE (00000080)		
4376	BUFPT	ADDRESS. HEX LOCATION (00003D06) IN CSECT (I7A22 ) LENGTH(2)		
2942	CE	ABSOLUTE. HEX VALUE (0000002A)		
3027	CICB	ABSOLUTE. HEX VALUE (00000014)		
3124	CLDCB	ADDRESS. HEX LOCATION (000037E8) IN CSECT (I7A22 ) LENGTH(2)		
2940	CS	ABSOLUTE. HEX VALUE (00000028)		
2941	CSA	ABSOLUTE. HEX VALUE (00000029)		
2971	CSBUF	ADDRESS. HEX LOCATION (000037A6) IN CSECT (I7A22 ) LENGTH(1)		
3162	CSDCB	ADDRESS. HEX LOCATION (00003828) IN CSECT (I7A22 ) LENGTH(2)		
2961	DCBUF	ADDRESS. HEX LOCATION (00003796) IN CSECT (I7A22 ) LENGTH(1)		
4377	DC2PT	ADDRESS. HEX LOCATION (00003D08) IN CSECT (I7A22 ) LENGTH(2)		
105	DEVADD	ADDRESS. HEX LOCATION (000019D0) IN CSECT (I7A22 ) LENGTH(1)		
2956	DEV1	ADDRESS. HEX LOCATION (0000378E) IN CSECT (I7A22 ) LENGTH(2)		
2959	DEV4	ADDRESS. HEX LOCATION (00003794) IN CSECT (I7A22 ) LENGTH(2)		
3113	DGDCB	ADDRESS. HEX LOCATION (000037D8) IN CSECT (I7A22 ) LENGTH(2)		
67	DUMMY	ABSOLUTE. HEX VALUE (00000000)		
2565	ENTPT	ADDRESS. HEX LOCATION (000033CE) IN CSECT (I7A22 ) LENGTH(1)		
47	EQ	ABSOLUTE. HEX VALUE (00000000)		
2933	ER	ABSOLUTE. HEX VALUE (00000021)		
3013	EXIT	ABSOLUTE. HEX VALUE (00000006)		
4379	PAKETU	ADDRESS. HEX LOCATION (00003D0C) IN CSECT (I7A22 ) LENGTH(2)		
2639	F00032	ADDRESS. HEX LOCATION (0000347A) IN CSECT (I7A22 ) LENGTH(1)		
2627	F00034	ADDRESS. HEX LOCATION (00003454) IN CSECT (I7A22 ) LENGTH(1)		
2823	F00045	ADDRESS. HEX LOCATION (000036A6) IN CSECT (I7A22 ) LENGTH(1)		
2647	F00046	ADDRESS. HEX LOCATION (00003494) IN CSECT (I7A22 ) LENGTH(1)		
2595	F00048	ADDRESS. HEX LOCATION (000033F0) IN CSECT (I7A22 ) LENGTH(1)		
2611	F00053	ADDRESS. HEX LOCATION (00003422) IN CSECT (I7A22 ) LENGTH(1)		
2587	F00081	ADDRESS. HEX LOCATION (000033D8) IN CSECT (I7A22 ) LENGTH(1)		

DECLARED	NAME	ATTRIBUTES AND REFERENCES	CROSS-REFERENCE LISTING	COPYRIGHT IBM CORP 1976
2591	F00123	ADDRESS. HEX LOCATION (000033E4) IN CSECT (I7A22 ) LENGTH(1)		
2599	F00135	ADDRESS. HEX LOCATION (000033FE) IN CSECT (I7A22 ) LENGTH(1)		
2603	F00144	ADDRESS. HEX LOCATION (0000340A) IN CSECT (I7A22 ) LENGTH(1)		
2607	F00147	ADDRESS. HEX LOCATION (00003416) IN CSECT (I7A22 ) LENGTH(1)		
2615	F00156	ADDRESS. HEX LOCATION (00003430) IN CSECT (I7A22 ) LENGTH(1)		
2619	F00163	ADDRESS. HEX LOCATION (0000343C) IN CSECT (I7A22 ) LENGTH(1)		
2623	F00169	ADDRESS. HEX LOCATION (00003448) IN CSECT (I7A22 ) LENGTH(1)		
2631	F00179	ADDRESS. HEX LOCATION (00003462) IN CSECT (I7A22 ) LENGTH(1)		
2635	F00182	ADDRESS. HEX LOCATION (0000346E) IN CSECT (I7A22 ) LENGTH(1)		
2643	F00202	ADDRESS. HEX LOCATION (00003488) IN CSECT (I7A22 ) LENGTH(1)		
2651	F00234	ADDRESS. HEX LOCATION (000034A2) IN CSECT (I7A22 ) LENGTH(1)		
2655	F00244	ADDRESS. HEX LOCATION (000034AE) IN CSECT (I7A22 ) LENGTH(1)		
2659	F00247	ADDRESS. HEX LOCATION (000034BA) IN CSECT (I7A22 ) LENGTH(1)		
2663	F00258	ADDRESS. HEX LOCATION (000034C6) IN CSECT (I7A22 ) LENGTH(1)		
2667	F00298	ADDRESS. HEX LOCATION (000034D2) IN CSECT (I7A22 ) LENGTH(1)		
2671	F00304	ADDRESS. HEX LOCATION (000034DE) IN CSECT (I7A22 ) LENGTH(1)		
2675	F00307	ADDRESS. HEX LOCATION (000034EA) IN CSECT (I7A22 ) LENGTH(1)		
2679	F00310	ADDRESS. HEX LOCATION (000034F6) IN CSECT (I7A22 ) LENGTH(1)		
2683	F00313	ADDRESS. HEX LOCATION (00003502) IN CSECT (I7A22 ) LENGTH(1)		
2687	F00324	ADDRESS. HEX LOCATION (0000350E) IN CSECT (I7A22 ) LENGTH(1)		
2691	F00342	ADDRESS. HEX LOCATION (0000351A) IN CSECT (I7A22 ) LENGTH(1)		
2695	F00356	ADDRESS. HEX LOCATION (00003526) IN CSECT (I7A22 ) LENGTH(1)		
2699	F00359	ADDRESS. HEX LOCATION (00003532) IN CSECT (I7A22 ) LENGTH(1)		
2703	F00371	ADDRESS. HEX LOCATION (0000353E) IN CSECT (I7A22 ) LENGTH(1)		
2707	F00387	ADDRESS. HEX LOCATION (0000354A) IN CSECT (I7A22 ) LENGTH(1)		
2711	F00404	ADDRESS. HEX LOCATION (00003556) IN CSECT (I7A22 ) LENGTH(1)		
2715	F00407	ADDRESS. HEX LOCATION (00003562) IN CSECT (I7A22 ) LENGTH(1)		
2719	F00432	ADDRESS. HEX LOCATION (0000356E) IN CSECT (I7A22 ) LENGTH(1)		
2723	F00435	ADDRESS. HEX LOCATION (0000357A) IN CSECT (I7A22 ) LENGTH(1)		
2727	F00438	ADDRESS. HEX LOCATION (00003586) IN CSECT (I7A22 ) LENGTH(1)		
2731	F00441	ADDRESS. HEX LOCATION (00003592) IN CSECT (I7A22 ) LENGTH(1)		
2735	F00465	ADDRESS. HEX LOCATION (0000359E) IN CSECT (I7A22 ) LENGTH(1)		
2739	F00472	ADDRESS. HEX LOCATION (000035AA) IN CSECT (I7A22 ) LENGTH(1)		
2743	F00475	ADDRESS. HEX LOCATION (000035B6) IN CSECT (I7A22 ) LENGTH(1)		
2747	F00486	ADDRESS. HEX LOCATION (000035C2) IN CSECT (I7A22 ) LENGTH(1)		
2751	F00496	ADDRESS. HEX LOCATION (000035CE) IN CSECT (I7A22 ) LENGTH(1)		
2755	F00503	ADDRESS. HEX LOCATION (000035DA) IN CSECT (I7A22 ) LENGTH(1)		
2759	F00510	ADDRESS. HEX LOCATION (000035E6) IN CSECT (I7A22 ) LENGTH(1)		
2763	F00513	ADDRESS. HEX LOCATION (000035F2) IN CSECT (I7A22 ) LENGTH(1)		
2767	F00516	ADDRESS. HEX LOCATION (000035FE) IN CSECT (I7A22 ) LENGTH(1)		
2771	F00519	ADDRESS. HEX LOCATION (0000360A) IN CSECT (I7A22 ) LENGTH(1)		
2775	F00530	ADDRESS. HEX LOCATION (00003616) IN CSECT (I7A22 ) LENGTH(1)		
2779	F00537	ADDRESS. HEX LOCATION (00003622) IN CSECT (I7A22 ) LENGTH(1)		
2783	F00548	ADDRESS. HEX LOCATION (0000362E) IN CSECT (I7A22 ) LENGTH(1)		
2787	F00567	ADDRESS. HEX LOCATION (0000363A) IN CSECT (I7A22 ) LENGTH(1)		
2791	F00586	ADDRESS. HEX LOCATION (00003646) IN CSECT (I7A22 ) LENGTH(1)		
2795	F00597	ADDRESS. HEX LOCATION (00003652) IN CSECT (I7A22 ) LENGTH(1)		
2799	F00606	ADDRESS. HEX LOCATION (0000365E) IN CSECT (I7A22 ) LENGTH(1)		
2803	F00613	ADDRESS. HEX LOCATION (0000366A) IN CSECT (I7A22 ) LENGTH(1)		
2807	F00616	ADDRESS. HEX LOCATION (00003676) IN CSECT (I7A22 ) LENGTH(1)		
2811	F00619	ADDRESS. HEX LOCATION (00003682) IN CSECT (I7A22 ) LENGTH(1)		
2815	F00634	ADDRESS. HEX LOCATION (0000368E) IN CSECT (I7A22 ) LENGTH(1)		
2819	F00644	ADDRESS. HEX LOCATION (0000369A) IN CSECT (I7A22 ) LENGTH(1)		
2827	F00657	ADDRESS. HEX LOCATION (000036B4) IN CSECT (I7A22 ) LENGTH(1)		
2831	F00679	ADDRESS. HEX LOCATION (000036C0) IN CSECT (I7A22 ) LENGTH(1)		
2835	F00689	ADDRESS. HEX LOCATION (000036CC) IN CSECT (I7A22 ) LENGTH(1)		

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
2839	F00698	2347 ADDRESS. HEX LOCATION(000036D8) IN CSECT(I7A22 ) LENGTH(1)
2843	F00708	2356 ADDRESS. HEX LOCATION(000036E4) IN CSECT(I7A22 ) LENGTH(1)
2847	F00722	2383 ADDRESS. HEX LOCATION(000036F0) IN CSECT(I7A22 ) LENGTH(1)
2851	F00732	2413 ADDRESS. HEX LOCATION(000036FC) IN CSECT(I7A22 ) LENGTH(1)
2855	F00735	2431 ADDRESS. HEX LOCATION(00003708) IN CSECT(I7A22 ) LENGTH(1)
2859	F00741	2434 ADDRESS. HEX LOCATION(00003714) IN CSECT(I7A22 ) LENGTH(1)
2863	F00752	2449 ADDRESS. HEX LOCATION(00003720) IN CSECT(I7A22 ) LENGTH(1)
2867	F00759	2476 ADDRESS. HEX LOCATION(0000372C) IN CSECT(I7A22 ) LENGTH(1)
2871	F00762	2491 ADDRESS. HEX LOCATION(00003738) IN CSECT(I7A22 ) LENGTH(1)
2875	F00765	2494 ADDRESS. HEX LOCATION(00003744) IN CSECT(I7A22 ) LENGTH(1)
2879	F00772	2497 ADDRESS. HEX LOCATION(00003750) IN CSECT(I7A22 ) LENGTH(1)
2883	F00775	2512 ADDRESS. HEX LOCATION(0000375C) IN CSECT(I7A22 ) LENGTH(1)
2887	F00782	2515 ADDRESS. HEX LOCATION(00003768) IN CSECT(I7A22 ) LENGTH(1)
2891	F00796	2530 ADDRESS. HEX LOCATION(00003774) IN CSECT(I7A22 ) LENGTH(1)
4385	HEBLK	2560 ADDRESS. HEX LOCATION(00003D0E) IN CSECT(I7A22 ) LENGTH(2)
3033	H7OE	4325 ABSOLUTE. HEX VALUE(0000001A)
3009	IDLE	4326 ABSOLUTE. HEX VALUE(00000002)
3254	ID00	4071 4073 ADDRESS. HEX LOCATION(000038C2) IN CSECT(I7A22 ) LENGTH(2)
2935	IN	3235 3343 ABSOLUTE. HEX VALUE(00000023)
4252	INTBL	3390 4057 4069 4190 ADDRESS. HEX LOCATION(00003B02) IN CSECT(I7A22 ) LENGTH(2)
4147	INTER	4287 ADDRESS. HEX LOCATION(00003A66) IN CSECT(I7A22 ) LENGTH(2)
4156	INTES	4254 ADDRESS. HEX LOCATION(00003A7E) IN CSECT(I7A22 ) LENGTH(2)
4160	INTET	4151 ADDRESS. HEX LOCATION(00003A86) IN CSECT(I7A22 ) LENGTH(2)
4187	INTOK	4157 ADDRESS. HEX LOCATION(00003A8A) IN CSECT(I7A22 ) LENGTH(2)
63	INTRNL	4253 ABSOLUTE. HEX VALUE(00000000)
4209	INTRX	994 ADDRESS. HEX LOCATION(00003ABA) IN CSECT(I7A22 ) LENGTH(2)
4190	INTR1	4204 4207 ADDRESS. HEX LOCATION(00003A92) IN CSECT(I7A22 ) LENGTH(2)
4195	INTR2	4155 4159 4161 ADDRESS. HEX LOCATION(00003AA0) IN CSECT(I7A22 ) LENGTH(1)
4203	INTR3	4192 ADDRESS. HEX LOCATION(00003AAE) IN CSECT(I7A22 ) LENGTH(2)
4243	IOBLK	4200 ADDRESS. HEX LOCATION(00003AF6) IN CSECT(I7A22 ) LENGTH(2)
4245	IODCB	3393 4058 4292 ADDRESS. HEX LOCATION(00003AFA) IN CSECT(I7A22 ) LENGTH(2)
4246	IOMOD	3327 3330 3333 3341 3352 3355 3358 3361 3369 ADDRESS. HEX LOCATION(00003AFC) IN CSECT(I7A22 ) LENGTH(2)
37	I7A22	3373 3377 3404 3407 4040 4046 4291 CSECT. START(00002500) LENGTH(6200) ESDID(1)
4362	LINE1	3394 3395 4032 4035 4041 ADDRESS. HEX LOCATION(00003BE2) IN CSECT(I7A22 ) LENGTH(40)
2955	LSTIO	4333 ADDRESS. HEX LOCATION(0000378C) IN CSECT(I7A22 ) LENGTH(2)
2932	MI	3380 4044 4295 ABSOLUTE. HEX VALUE(00000020)
4336	MVBUF	4205 ADDRESS. HEX LOCATION(00003BE6) IN CSECT(I7A22 ) LENGTH(2)
2944	NG	4340 4343 ABSOLUTE. HEX VALUE(0000002C)
2939	NI	4208 ABSOLUTE. HEX VALUE(00000027)
966	N00001	4063 ADDRESS. HEX LOCATION(0000285C) IN CSECT(I7A22 ) LENGTH(2)
978	N00002	315 2575 ADDRESS. HEX LOCATION(0000286E) IN CSECT(I7A22 ) LENGTH(2)
990	N00003	318 ADDRESS. HEX LOCATION(00002880) IN CSECT(I7A22 ) LENGTH(2)
996	N00004	321 ADDRESS. HEX LOCATION(0000288C) IN CSECT(I7A22 ) LENGTH(2)
1008	N00005	324 979 ADDRESS. HEX LOCATION(000028A6) IN CSECT(I7A22 ) LENGTH(2)
1020	N00006	327 ADDRESS. HEX LOCATION(000028BE) IN CSECT(I7A22 ) LENGTH(2)
1032	N00007	330 ADDRESS. HEX LOCATION(000028D8) IN CSECT(I7A22 ) LENGTH(2)
1044	N00008	333 ADDRESS. HEX LOCATION(000028F0) IN CSECT(I7A22 ) LENGTH(2)
1056	N00009	336 ADDRESS. HEX LOCATION(00002908) IN CSECT(I7A22 ) LENGTH(2)
1068	N00010	339 ADDRESS. HEX LOCATION(00002920) IN CSECT(I7A22 ) LENGTH(2)
1080	N00011	342 ADDRESS. HEX LOCATION(00002938) IN CSECT(I7A22 ) LENGTH(2)
1092	N00012	345 ADDRESS. HEX LOCATION(00002950) IN CSECT(I7A22 ) LENGTH(2)
1104	N00013	348 ADDRESS. HEX LOCATION(00002968) IN CSECT(I7A22 ) LENGTH(2)
1116	N00014	351 ADDRESS. HEX LOCATION(00002980) IN CSECT(I7A22 ) LENGTH(2)
1119	N00015	354 ADDRESS. HEX LOCATION(00002984) IN CSECT(I7A22 ) LENGTH(2)
1131	N00016	357 1105 ADDRESS. HEX LOCATION(0000299C) IN CSECT(I7A22 ) LENGTH(2)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
1143	N00017	360 ADDRESS. HEX LOCATION(000029B2) IN CSECT(I7A22 ) LENGTH(2)
1146	N00018	363 ADDRESS. HEX LOCATION(000029B6) IN CSECT(I7A22 ) LENGTH(2)
1149	N00019	366 1132 ADDRESS. HEX LOCATION(000029BA) IN CSECT(I7A22 ) LENGTH(2)
1152	N00020	369 1120 ADDRESS. HEX LOCATION(000029BE) IN CSECT(I7A22 ) LENGTH(2)
1155	N00021	372 1093 ADDRESS. HEX LOCATION(000029C2) IN CSECT(I7A22 ) LENGTH(2)
1158	N00022	375 1081 ADDRESS. HEX LOCATION(000029C6) IN CSECT(I7A22 ) LENGTH(2)
1161	N00023	378 1069 ADDRESS. HEX LOCATION(000029CA) IN CSECT(I7A22 ) LENGTH(2)
1164	N00024	381 1057 ADDRESS. HEX LOCATION(000029CE) IN CSECT(I7A22 ) LENGTH(2)
1167	N00025	384 1045 ADDRESS. HEX LOCATION(000029D2) IN CSECT(I7A22 ) LENGTH(2)
1170	N00026	387 1033 ADDRESS. HEX LOCATION(000029D6) IN CSECT(I7A22 ) LENGTH(2)
1182	N00027	390 1021 ADDRESS. HEX LOCATION(000029EE) IN CSECT(I7A22 ) LENGTH(2)
1185	N00028	393 ADDRESS. HEX LOCATION(000029F2) IN CSECT(I7A22 ) LENGTH(2)
1197	N00029	396 1171 ADDRESS. HEX LOCATION(00002A04) IN CSECT(I7A22 ) LENGTH(2)
1200	N00030	399 ADDRESS. HEX LOCATION(00002A08) IN CSECT(I7A22 ) LENGTH(2)
1203	N00031	402 1186 ADDRESS. HEX LOCATION(00002A0C) IN CSECT(I7A22 ) LENGTH(2)
1215	N00032	405 1009 ADDRESS. HEX LOCATION(00002A24) IN CSECT(I7A22 ) LENGTH(2)
1218	N00033	408 ADDRESS. HEX LOCATION(00002A28) IN CSECT(I7A22 ) LENGTH(2)
1221	N00034	411 1204 ADDRESS. HEX LOCATION(00002A2C) IN CSECT(I7A22 ) LENGTH(2)
1233	N00035	414 997 ADDRESS. HEX LOCATION(00002A44) IN CSECT(I7A22 ) LENGTH(2)
1245	N00036	417 ADDRESS. HEX LOCATION(00002A62) IN CSECT(I7A22 ) LENGTH(2)
1257	N00037	420 ADDRESS. HEX LOCATION(00002A74) IN CSECT(I7A22 ) LENGTH(2)
1260	N00038	423 ADDRESS. HEX LOCATION(00002A78) IN CSECT(I7A22 ) LENGTH(2)
1272	N00039	426 1246 ADDRESS. HEX LOCATION(00002A90) IN CSECT(I7A22 ) LENGTH(2)
1275	N00040	429 ADDRESS. HEX LOCATION(00002A94) IN CSECT(I7A22 ) LENGTH(2)
1287	N00041	432 1261 ADDRESS. HEX LOCATION(00002AAC) IN CSECT(I7A22 ) LENGTH(2)
1290	N00042	435 ADDRESS. HEX LOCATION(00002AB0) IN CSECT(I7A22 ) LENGTH(2)
1293	N00043	438 1276 ADDRESS. HEX LOCATION(00002AB4) IN CSECT(I7A22 ) LENGTH(2)
1305	N00044	441 1234 ADDRESS. HEX LOCATION(00002ACC) IN CSECT(I7A22 ) LENGTH(2)
1317	N00045	444 ADDRESS. HEX LOCATION(00002AE4) IN CSECT(I7A22 ) LENGTH(2)
1329	N00046	447 ADDRESS. HEX LOCATION(00002AFC) IN CSECT(I7A22 ) LENGTH(2)
1341	N00047	450 ADDRESS. HEX LOCATION(00002B14) IN CSECT(I7A22 ) LENGTH(2)
1344	N00048	453 ADDRESS. HEX LOCATION(00002B18) IN CSECT(I7A22 ) LENGTH(2)
1347	N00049	456 1330 ADDRESS. HEX LOCATION(00002B1C) IN CSECT(I7A22 ) LENGTH(2)
1350	N00050	459 1318 ADDRESS. HEX LOCATION(00002B20) IN CSECT(I7A22 ) LENGTH(2)
1362	N00051	462 1306 ADDRESS. HEX LOCATION(00002B38) IN CSECT(I7A22 ) LENGTH(2)
1365	N00052	465 ADDRESS. HEX LOCATION(00002B3C) IN CSECT(I7A22 ) LENGTH(2)
1368	N00053	468 1351 ADDRESS. HEX LOCATION(00002B40) IN CSECT(I7A22 ) LENGTH(2)
1380	N00054	471 1294 ADDRESS. HEX LOCATION(00002B58) IN CSECT(I7A22 ) LENGTH(2)
1392	N00055	474 ADDRESS. HEX LOCATION(00002B72) IN CSECT(I7A22 ) LENGTH(2)
1395	N00056	477 ADDRESS. HEX LOCATION(00002B76) IN CSECT(I7A22 ) LENGTH(2)
1407	N00057	480 1381 ADDRESS. HEX LOCATION(00002B8E) IN CSECT(I7A22 ) LENGTH(2)
1419	N00058	483 ADDRESS. HEX LOCATION(00002BA6) IN CSECT(I7A22 ) LENGTH(2)
1431	N00059	486 ADDRESS. HEX LOCATION(00002BBE) IN CSECT(I7A22 ) LENGTH(2)
1434	N00060	489 ADDRESS. HEX LOCATION(00002BC2) IN CSECT(I7A22 ) LENGTH(2)
1437	N00061	492 1420 ADDRESS. HEX LOCATION(00002BC6) IN CSECT(I7A22 ) LENGTH(2)
1449	N00062	495 1408 ADDRESS. HEX LOCATION(00002BE6) IN CSECT(I7A22 ) LENGTH(2)
1461	N00063	498 ADDRESS. HEX LOCATION(00002BF6) IN CSECT(I7A22 ) LENGTH(2)
1473	N00064	501 ADDRESS. HEX LOCATION(00002C0E) IN CSECT(I7A22 ) LENGTH(2)
1485	N00065	504 ADDRESS. HEX LOCATION(00002C26) IN CSECT(I7A22 ) LENGTH(2)
1488	N00066	507 ADDRESS. HEX LOCATION(00002C2A) IN CSECT(I7A22 ) LENGTH(2)
1491	N00067	510 1474 ADDRESS. HEX LOCATION(00002C2E) IN CSECT(I7A22 ) LENGTH(2)
1494	N00068	513 1462 ADDRESS. HEX LOCATION(00002C32) IN CSECT(I7A22 ) LENGTH(2)
1497	N00069	516 1450 ADDRESS. HEX LOCATION(00002C36) IN CSECT(I7A22 ) LENGTH(2)
1500	N00070	519 1438 ADDRESS. HEX LOCATION(00002C3A) IN CSECT(I7A22 ) LENGTH(2)
1503	N00071	522 1396 ADDRESS. HEX LOCATION(00002C3E) IN CSECT(I7A22 ) LENGTH(2)
		525 1369



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DECLARED	NAME	ATTRIBUTES AND REFERENCES
2352	N00183	ADDRESS. HEX LOCATION(00003252) IN CSECT(I7A22 ) LENGTH(2)
2355	N00184	ADDRESS. HEX LOCATION(00003256) IN CSECT(I7A22 ) LENGTH(2)
2358	N00185	ADDRESS. HEX LOCATION(0000325A) IN CSECT(I7A22 ) LENGTH(2)
2370	N00186	ADDRESS. HEX LOCATION(00003272) IN CSECT(I7A22 ) LENGTH(2)
2382	N00187	ADDRESS. HEX LOCATION(00003284) IN CSECT(I7A22 ) LENGTH(2)
2385	N00188	ADDRESS. HEX LOCATION(00003288) IN CSECT(I7A22 ) LENGTH(2)
2397	N00189	ADDRESS. HEX LOCATION(000032A0) IN CSECT(I7A22 ) LENGTH(2)
2409	N00190	ADDRESS. HEX LOCATION(000032BA) IN CSECT(I7A22 ) LENGTH(2)
2412	N00191	ADDRESS. HEX LOCATION(000032BE) IN CSECT(I7A22 ) LENGTH(2)
2415	N00192	ADDRESS. HEX LOCATION(000032C2) IN CSECT(I7A22 ) LENGTH(2)
2427	N00193	ADDRESS. HEX LOCATION(000032DA) IN CSECT(I7A22 ) LENGTH(2)
2430	N00194	ADDRESS. HEX LOCATION(000032DE) IN CSECT(I7A22 ) LENGTH(2)
2433	N00195	ADDRESS. HEX LOCATION(000032E2) IN CSECT(I7A22 ) LENGTH(2)
2436	N00196	ADDRESS. HEX LOCATION(000032E6) IN CSECT(I7A22 ) LENGTH(2)
2448	N00197	ADDRESS. HEX LOCATION(000032F8) IN CSECT(I7A22 ) LENGTH(2)
2451	N00198	ADDRESS. HEX LOCATION(000032FC) IN CSECT(I7A22 ) LENGTH(2)
2463	N00199	ADDRESS. HEX LOCATION(00003314) IN CSECT(I7A22 ) LENGTH(2)
2475	N00200	ADDRESS. HEX LOCATION(0000332C) IN CSECT(I7A22 ) LENGTH(2)
2478	N00201	ADDRESS. HEX LOCATION(00003330) IN CSECT(I7A22 ) LENGTH(2)
2490	N00202	ADDRESS. HEX LOCATION(00003348) IN CSECT(I7A22 ) LENGTH(2)
2493	N00203	ADDRESS. HEX LOCATION(0000334C) IN CSECT(I7A22 ) LENGTH(2)
2496	N00204	ADDRESS. HEX LOCATION(00003350) IN CSECT(I7A22 ) LENGTH(2)
2499	N00205	ADDRESS. HEX LOCATION(00003354) IN CSECT(I7A22 ) LENGTH(2)
2511	N00206	ADDRESS. HEX LOCATION(0000336C) IN CSECT(I7A22 ) LENGTH(2)
2514	N00207	ADDRESS. HEX LOCATION(00003370) IN CSECT(I7A22 ) LENGTH(2)
2517	N00208	ADDRESS. HEX LOCATION(00003374) IN CSECT(I7A22 ) LENGTH(2)
2529	N00209	ADDRESS. HEX LOCATION(0000338C) IN CSECT(I7A22 ) LENGTH(2)
2532	N00210	ADDRESS. HEX LOCATION(00003390) IN CSECT(I7A22 ) LENGTH(2)
2544	N00211	ADDRESS. HEX LOCATION(000033A8) IN CSECT(I7A22 ) LENGTH(2)
2547	N00212	ADDRESS. HEX LOCATION(000033AC) IN CSECT(I7A22 ) LENGTH(2)
2559	N00213	ADDRESS. HEX LOCATION(000033C4) IN CSECT(I7A22 ) LENGTH(2)
2562	N00214	ADDRESS. HEX LOCATION(000033C8) IN CSECT(I7A22 ) LENGTH(2)
58	OF	ABSOLUTE. HEX VALUE(00000202)
		1011 1023 1047 1071 1083 1095 1107 1134 1188
		1224 1236 1248 1263 1308 1332 1353 1371 1383
		1410 1422 1440 1464 1476 1521 1539 1551 1563
		1581 1614 1632 1644 1656 1674 1686 1698 1743
		1758 1797 1821 1833 1845 1860 1878 1890 1905
		1917 1932 1947 1983 1998 2013 2058 2076 2088
		2100 2127 2139 2163 2196 2208 2241 2262 2274
		2286 2298 2310 2325 2361 2388 2400 2454 2466
		2481 2502 2535 2550
57	ON	ABSOLUTE. HEX VALUE(00000200)
		999 1035 1059 112 1173 1206 1278 1296 1320
		1398 1423 1509 1563 1719 1731 1971 2025 2112
		2184 2223 2418 2520
2897	OPTN1	ADDRESS. HEX LOCATION(00003780) IN CSECT(I7A22 ) LENGTH(2)
2920	OPTN3	ADDRESS. HEX LOCATION(00003784) IN CSECT(I7A22 ) LENGTH(2)
101	PARHARA	ADDRESS. HEX LOCATION(0000196E) IN CSECT(I7A22 ) LENGTH(1)
		976 988 1006 1018 1030 1042 1054 1066 1078
		1090 1102 1114 1129 1141 1180 1195 1213 1231
		1243 1255 1270 1285 1303 1315 1327 1339 1360
		1378 1390 1405 1417 1429 1447 1459 1471 1483
		1516 1528 1546 1558 1570 1588 1600 1621 1639
		1651 1663 1681 1693 1705 1726 1738 1750 1765
		1692 1804 1816 1828 1840 1852 1867 1885 1897
		1912 1924 1939 1954 1978 1990 2005 2020 2032
		2053 2065 2083 2095 2107 2119 2134 2146 2170
		2191 2203 2215 2230 2248 2269 2281 2293 2305
		2317 2332 2344 2368 2380 2395 2407 2425 2446
		2461 2473 2488 2509 2527 2542 2557
69	PID	ADDRESS. HEX LOCATION(00001800) IN CSECT(I7A22 ) 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 4344
4380	PIDMSG10	ABSOLUTE. HEX VALUE(0000F1F0)
3019	PREP	ABSOLUTE. HEX VALUE(0000000C)
3195	RDDCB	ADDRESS. HEX LOCATION(00003858) IN CSECT(I7A22 ) LENGTH(2)
3026	RICB	ABSOLUTE. HEX VALUE(00000013)
3217	RKDCB	ADDRESS. HEX LOCATION(00003878) IN CSECT(I7A22 ) LENGTH(2)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
3228	RMDCB	ADDRESS. HEX LOCATION(00003888) IN CSECT(I7A22 ) LENGTH(2)
3251	RSBA	ADDRESS. HEX LOCATION(000038B2) IN CSECT(I7A22 ) LENGTH(2)
3140	RSDCB	ADDRESS. HEX LOCATION(00003808) IN CSECT(I7A22 ) LENGTH(2)
0	R0	REGISTER. HEX VALUE(00000000)
0	R1	REGISTER. HEX VALUE(00000001)
0	R2	REGISTER. HEX VALUE(00000002)
0	R3	REGISTER. HEX VALUE(00000003)
0	R4	REGISTER. HEX VALUE(00000004)
0	R5	REGISTER. HEX VALUE(00000005)
0	R6	REGISTER. HEX VALUE(00000006)
0	R7	REGISTER. HEX VALUE(00000007)
2960	SC7ID	ADDRESS. HEX LOCATION(0000378E) IN CSECT(I7A22 ) LENGTH(2)
3151	SKDCB	ADDRESS. HEX LOCATION(00003818) IN CSECT(I7A22 ) LENGTH(2)
3017	START	ABSOLUTE. HEX VALUE(0000000A)
104	SUPSTAT	ADDRESS. HEX LOCATION(000019C4) IN CSECT(I7A22 ) LENGTH(1)
92	TUMSGWTR	ADDRESS. HEX LOCATION(000018BA) IN CSECT(I7A22 ) LENGTH(1)
98	TURESUL	ADDRESS. HEX LOCATION(000018C8) IN CSECT(I7A22 ) LENGTH(1)
2989	TURTN	ADDRESS. HEX LOCATION(000037C8) IN CSECT(I7A22 ) LENGTH(2)
74	TUSTATUS	ADDRESS. HEX LOCATION(00001818) IN CSECT(I7A22 ) LENGTH(1)
75	TUWORK	ADDRESS. HEX LOCATION(0000181A) IN CSECT(I7A22 ) LENGTH(1)
2998	T7A02	ADDRESS. HEX LOCATION(000037D0) IN CSECT(I7A22 ) LENGTH(6)
4425	T7A10	ADDRESS. HEX LOCATION(00003D14) IN CSECT(I7A22 ) LENGTH(4)
3184	VRDCB	ADDRESS. HEX LOCATION(00003848) IN CSECT(I7A22 ) LENGTH(2)
3206	WRDCB	ADDRESS. HEX LOCATION(00003868) IN CSECT(I7A22 ) LENGTH(2)
3173	WRDCB	ADDRESS. HEX LOCATION(00003838) IN CSECT(I7A22 ) LENGTH(2)
3023	WRIT0	ABSOLUTE. HEX VALUE(00000010)
3024	WRIT1	ABSOLUTE. HEX VALUE(00000011)
3245	WRSID	ADDRESS. HEX LOCATION(000038A6) IN CSECT(I7A22 ) LENGTH(2)
3129	WSDCB	ADDRESS. HEX LOCATION(000037F8) IN CSECT(I7A22 ) LENGTH(2)
2936	XE	ABSOLUTE. HEX VALUE(00000024)
2934	XI	ABSOLUTE. HEX VALUE(00000022)
4032	XIO	ADDRESS. HEX LOCATION(000039E8) IN CSECT(I7A22 ) LENGTH(4)
4218	XIOCK	ADDRESS. HEX LOCATION(00003ABC) IN CSECT(I7A22 ) LENGTH(2)
4225	XIOCO	ADDRESS. HEX LOCATION(00003ACE) IN CSECT(I7A22 ) LENGTH(2)
4235	XIOCQ	ADDRESS. HEX LOCATION(00003AE4) IN CSECT(I7A22 ) LENGTH(4)
4040	XIOCS	ADDRESS. HEX LOCATION(000039FA) IN CSECT(I7A22 ) LENGTH(6)
4227	XIOCV	ADDRESS. HEX LOCATION(00003AD2) IN CSECT(I7A22 ) LENGTH(2)
4238	XIOCX	ADDRESS. HEX LOCATION(00003AF0) IN CSECT(I7A22 ) LENGTH(4)
4035	XIODG	ADDRESS. HEX LOCATION(000039EE) IN CSECT(I7A22 ) LENGTH(6)
4111	XIOER	ADDRESS. HEX LOCATION(00003A5A) IN CSECT(I7A22 ) LENGTH(2)
4044	XIO1	ADDRESS. HEX LOCATION(00003A0A) IN CSECT(I7A22 ) LENGTH(4)
4057	XIO2	ADDRESS. HEX LOCATION(00003A30) IN CSECT(I7A22 ) LENGTH(2)

DECLARED NAME ATTRIBUTES AND REFERENCES

4069 XIO8 ADDRESS, HEX LOCATION(00003A46) IN CSECT(I7A22 ) LENGTH(2)  
3400 3402 4076

\*\*\*\*\* LAST PAGE \*\*\*\*\*