

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
3 ***** COPY LOG4830 ***** ** MAP EC HISTORY **
4 *****
5 *****
6 *****
7 ***** PREREQUISITES *****
8 ***** NONE *****
9 *****
10 *****
11 *****
12 ***** MODIFICATIONS *****
13 *****
14 ***** MODIFICATION'S MADE TO CORRECT PROBLEMS ENCOUNTERED DURING TESTING *****
15 *****
16 *****
17 *****
18 ***** REA'S INCORPORATED *****
19 ***** NONE *****
20 *****
21 *****
22 *****
23 *****
24 ***** SPECIAL INSTRUCTIONS *****
25 ***** NONE *****
26 *****
27 *****
28 *****
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30 *****
31 *****
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37 ***** E. C. HISTORY *****
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LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
002500 2734
198 ***** DC A(ENTPT) POINT TO MAP ENTRY POINT TABLE *****
199 *****
200 *****
201 *****
202 *****
203 ***** THE FOLLOWING TABLES ARE USED BY THE MDI SUPERVISOR (D3C00) *****
204 ***** TO LOCATE THE CORRECT RULE TO INVOKE TO OBTAIN THE PROPER *****
205 ***** PARAMETERS TO PASS TO THE TU'S AND TO PASS TO THE OPERATOR *****
206 ***** THE INDICATED MESSAGE(S). THERE ARE FOUR TABLES USED FOR THIS *****
207 ***** PURPOSE THEY ARE: *****
208 *****
209 ***** STEP AND RULE ADDRESS TABLE *****
210 ***** THIS TABLE GIVES THE ADDRESS OF THE RULE TO INVOKE AND *****
211 ***** THE ASSOCIATED STEP DECIMAL STEP NUMBER OF THAT RULE. *****
212 ***** ENTRIES ARE AS FOLLOWS *****
213 ***** A) AN ADDRESS OF THE RULE DC START AREA *****
214 ***** B) THE STEP NUMBER IN DECIMAL *****
215 ***** C) AN EQUATE FOR THE STEP NUMBER *****
216 *****
217 ***** RULE INFORMATION TABLE *****
218 ***** THIS TABLE CONTAINS THE REQUIRED INFORMATION TO EXECUTE *****
219 ***** THE APPROPRIATE RULE UNDER MDI. EACH RULE HAS ITS OWN *****
220 ***** UNIQUELY DEFINED AREA INDICATED BELOW. END OF TABLE IS *****
221 ***** INDICATED WITH A X'0000' FOR THE RULE EQUATE. *****
222 *****
223 ***** \$QUES *****
224 ***** A) RULE EQUATE X'0100' *****
225 ***** B) ADDRESS OF THE YES LEG RULE *****
226 *****
227 ***** \$FIXT *****
228 ***** A) RULE EQUATE X'0101' *****
229 ***** B) ADDRESS OF MESSAGE TO PRINT *****
230 *****
231 ***** \$SIOP *****
232 ***** A) RULE EQUATE X'0102' *****
233 ***** B) ADDRESS OF MESSAGE *****
234 *****
235 ***** \$GOTO *****
236 ***** A) RULE EQUATE X'0200' *****
237 ***** B) ADDRESS OF MESSAGE *****
238 ***** C) NAME OF MAP TO GO TO *****
239 ***** D) ENTRY POINT WITHIN MAP TO MAP TO USE *****
240 ***** E) INDICATOR FOR EXTERNAL OR INTERNAL REFERENCE *****
241 *****
242 ***** \$CALL *****
243 ***** A) RULE EQUATE X'0201' *****
244 ***** B) ADDRESS OF MESSAGE *****
245 ***** C) NAME OF MAP TO CALL *****
246 ***** D) ENTRY POINT WITHIN CALLED MAP TO USE *****
247 ***** E) INDICATOR FOR EXTERNAL OR INTERNAL REFERENCE *****
248 *****
249 ***** \$INPT *****
250 ***** A) RULE EQUATE X'0300' *****
251 ***** B) INPUT TYPE (EBCDIC OR HEX) *****
252 ***** C) ADDRESS OF YES LEG RULE *****
253 ***** D) DESTINATION LOCATION OF INPUT DATA *****
254 ***** E) LENGTH OF INPUT DATA *****
255 ***** F) LOWER LIMIT OF GOOD DATA *****
256 ***** G) HIGHER LIMIT OF GOOD DATA *****
257 *****
258 ***** \$QUXX *****
259 ***** A) RULE EQUATE X'0400' *****
260 ***** B) ADDRESS OF YES LEG RULE *****
261 ***** C) TU BRANCH TO ADDRESS (INITIAL) *****
262 ***** D) TU BRANCH TO ADDRESS (SECONDARY) *****
263 ***** E) LENGTH OF PARAMETER IN BYTES *****
264 ***** F) PARAMETER TO PASS TO TU *****
265 ***** G) STORE ADDRESS FOR FIRST 8 WORDS OF PARAMETER *****
266 *****
267 ***** \$TUXX *****
268 ***** A) RULE EQUATE X'0500' *****
269 ***** B) ADDRESS OF YES LEG RULE *****
270 ***** C) TU BRANCH TO ADDRESS *****
271 ***** D) TYPE OF COMPARE TO MAKE ON RESULTS *****
272 ***** E) LENGTH OF COMPARED RESULTS *****
273 ***** F) MASK FIELD FOR COMPARE *****
274 ***** G) LENGTH OF PARAMETER IN BYTES *****
275 ***** H) PARAMETER TO PASS TO THE TU *****
276 ***** I) STORE ADDRESS FOR FIRST 8 WORDS OF PARAMETER *****
277 *****
278 ***** \$NVLD *****
279 ***** A) RULE EQUATE X'0600' *****
280 *****
281 *****
282 ***** ENTRY POINT TABLE *****
283 ***** THIS TABLE CONTAINS THE ENTRY POINTS WITHIN THE MAP THAT *****
284 ***** THE MAP CAN BE ENTERED FROM THESE ENTRY POINTS ARE *****
285 ***** REFERENCED BY NAME AND ADDRESS. ENTRIES ARE AS FOLLOWS: *****
286 *****
287 ***** A) NAME OF ENTRY POINT *****
288 ***** B) ADDRESS OF ENTRY POINT RULE TABLE *****
289 *****
290 ***** THE ENTRY POINT TABLE END IS INDICATED BY A X'0000' *****
291 *****
292 ***** MESSAGE TABLE *****
293 ***** THIS TABLE CONTAINS THE MESSAGE PASSED TO THE OPERATOR *****
294 ***** VIA THE MDI SUPERVISOR. THE TABLE IS AS FOLLOWS: *****
295 *****
296 ***** A) EQUATE FOR START OF MESSAGE BLOCK *****
297 ***** B) NUMBER OF LINES OF MESSAGE *****
298 ***** C) LENGTH OF FOLLOWING LINE *****
299 ***** D) FIRST LINE OF MESSAGE *****
300 ***** E) LENGTH OF FOLLOWING LINE *****
301 ***** F) SECOND LINE OF MESSAGE *****
302 ***** G) ETC. *****
303 *****
304 *****
305 *****

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002502	2600	308	*****	
002504	0001	309	*****	
002506	2604	310	*****	
002508	0002	311	*****	
002510	2608	312	*****	
002512	0003	313	*****	
002514	260C	314	*****	
002516	0004	315	*****	
002518	2610	316	*****	
002520	0005	317	*****	
002522	2614	318	*****	
002524	0006	319	*****	
002526	2618	320	*****	
002528	0007	321	*****	
002530	261C	322	*****	
002532	0008	323	*****	
002534	2620	324	*****	
002536	0009	325	*****	
002538	2624	326	*****	
002540	0010	327	*****	
002542	2628	328	*****	
002544	0011	329	*****	
002546	262C	330	*****	
002548	0012	331	*****	
002550	2630	332	*****	
002552	0013	333	*****	
002554	2634	334	*****	
002556	0014	335	*****	
002558	2640	336	*****	
002560	0015	337	*****	
002562	2644	338	*****	
002564	0016	339	*****	
002566	2648	340	*****	
002568	0017	341	*****	
002570	264C	342	*****	
002572	0018	343	*****	
002574	2650	344	*****	
002576	0019	345	*****	
002578	2654	346	*****	
002580	0020	347	*****	
002582	2658	348	*****	
002584	0021	349	*****	
002586	265C	350	*****	
002588	0022	351	*****	
002590	2660	352	*****	
002592	0023	353	*****	
002594	2664	354	*****	
002596	0024	355	*****	
002598	2668	356	*****	
002600	0025	357	*****	
002602	266C	358	*****	
002604	0026	359	*****	
002606	2670	360	*****	
002608	0027	361	*****	
002610	2674	362	*****	
002612	0028	363	*****	
002614	2678	364	*****	
002616	0029	365	*****	
002618	267C	366	*****	
002620	0030	367	*****	
002622	2680	368	*****	
002624	0031	369	*****	
002626	2684	370	*****	
002628	0032	371	*****	
002630	2688	372	*****	
002632	0033	373	*****	
002634	268C	374	*****	
002636	0034	375	*****	
002638	2690	376	*****	
002640	0035	377	*****	
002642	2694	378	*****	
002644	0036	379	*****	
002646	2698	380	*****	
002648	0037	381	*****	
002650	269C	382	*****	
002652	0038	383	*****	
002654	2694	384	*****	
002656	0039	385	*****	
002658	2698	386	*****	
002660	0040	387	*****	
002662	269C	388	*****	
002664	0041	389	*****	
002666	2694	390	*****	
002668	0042	391	*****	
002670	2698	392	*****	
002672	0043	393	*****	
002674	269C	394	*****	
002676	0044	395	*****	
002678	2694	396	*****	
002680	0045	397	*****	
002682	2698	398	*****	
002684	0046	399	*****	
002686	269C	400	*****	
002688	0047	401	*****	
002690	2694	402	*****	
002692	0048	403	*****	
002694	2698	404	*****	
002696	0049	405	*****	
002698	269C	406	*****	
002700	0050	407	*****	
002702	2694	408	*****	
002704	0051	409	*****	
002706	2698	410	*****	
002708	0052	411	*****	
002710	269C	412	*****	
002712	0053	413	*****	
002714	2694	414	*****	
002716	0054	415	*****	
002718	2698	416	*****	
002720	0055	417	*****	
002722	269C	418	*****	
002724	0056	419	*****	
002726	2694	420	*****	
002728	0057	421	*****	
002730	2698	422	*****	
002732	0058	423	*****	
002734	269C	424	*****	
002736	0059	425	*****	
002738	2694	426	*****	
002740	0060	427	*****	
002742	2698	428	*****	
002744	0061	429	*****	
002746	269C	430	*****	
002748	0062	431	*****	
002750	2694	432	*****	
002752	0063	433	*****	
002754	2698	434	*****	
002756	0064	435	*****	
002758	269C	436	*****	
002760	0065	437	*****	
002762	2694	438	*****	
002764	0066	439	*****	
002766	2698	440	*****	
002768	0067	441	*****	
002770	269C	442	*****	
002772	0068	443	*****	
002774	2694	444	*****	
002776	0069	445	*****	
002778	2698	446	*****	
002780	0070	447	*****	
002782	269C	448	*****	
002784	0071	449	*****	
002786	2694	450	*****	
002788	0072	451	*****	
002790	2698	452	*****	
002792	0073	453	*****	
002794	269C	454	*****	
002796	0074	455	*****	
002798	2694	456	*****	
002800	0075	457	*****	
002802	2698	458	*****	
002804	0076	459	*****	
002806	269C	460	*****	
002808	0077	461	*****	
002810	2694	462	*****	
002812	0078	463	*****	
002814	2698	464	*****	
002816	0079	465	*****	
002818	269C	466	*****	
002820	0080	467	*****	
002822	2694	468	*****	
002824	0081	469	*****	
002826	2698	470	*****	
002828	0082	471	*****	
002830	269C	472	*****	
002832	0083	473	*****	
002834	2694	474	*****	
002836	0084	475	*****	
002838	2698	476	*****	
002840	0085	477	*****	
002842	269C	478	*****	
002844	0086	479	*****	
002846	2694	480	*****	
002848	0087	481	*****	
002850	2698	482	*****	
002852	0088	483	*****	
002854	269C	484	*****	
002856	0089	485	*****	
002858	2694	486	*****	
002860	0090	487	*****	
002862	2698	488	*****	
002864	0091	489	*****	
002866	269C	490	*****	
002868	0092	491	*****	
002870	2694	492	*****	
002872	0093	493	*****	
002874	2698	494	*****	
002876	0094	495	*****	
002878	269C	496	*****	
002880	0095	497	*****	
002882	2694	498	*****	
002884	0096	499	*****	
002886	2698	500	*****	
002888	0097	501	*****	
002890	269C	502	*****	
002892	0098	503	*****	
002894	2694	504	*****	
002896	0099	505	*****	
002898	2698	506	*****	
002900	0100	507	*****	
002902	269C	508	*****	
002904	0101	509	*****	
002906	2694	510	*****	
002908	0102	511	*****	
002910	2698	512	*****	
002912	0103	513	*****	
002914	269C	514	*****	
002916	0104	515	*****	
002918	2694	516	*****	
002920	0105	517	*****	
002922	2698	518	*****	
002924	0106	519	*****	
002926	269C	520	*****	
002928	0107	521	*****	
002930	2694	522	*****	
002932	0108	523	*****	
002934	2698	524	*****	
002936	0109	525	*****	
002938	269C	526	*****	
002940	0110	527	*****	
002942	2694	528	*****	
002944	0111	529	*****	
002946	2698	530	*****	
002948	0112	531	*****	
002950	269C	532	*****	
002952	0113	533	*****	

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002594	0037	424	XL2*0037'	
000025		425	EQN00037	
002596	269C	426	AL2(N00038)	
002598	0038	427	XL2*0038'	
000026		428	EQN00038	
00259A	26A0	429	AL2(N00039)	
00259C	0039	430	XL2*0039'	
000027		431	EQN00039	
00259E	26A4	432	AL2(N00040)	
0025A0	0040	433	XL2*0040'	
000028		434	EQN00040	
0025A2	26A8	435	AL2(N00041)	
0025A4	0041	436	XL2*0041'	
000029		437	EQN00041	
0025A6	26AC	438	AL2(N00042)	
0025A8	0042	439	XL2*0042'	
00002A		440	EQN00042	
0025AA	26B0	441	AL2(N00043)	
0025AC	0043	442	XL2*0043'	
00002B		443	EQN00043	
0025AE	26BC	444	AL2(N00044)	
0025B0	0044	445	XL2*0044'	
00002C		446	EQN00044	
0025B2	26C0	447	AL2(N00045)	
0025B4	0045	448	XL2*0045'	
00002D		449	EQN00045	
0025B6	26C4	450	AL2(N00046)	
0025B8	0046	451	XL2*0046'	
00002E		452	EQN00046	
0025BA	26D0	453	AL2(N00047)	
0025BC	0047	454	XL2*0047'	
00002F		455	EQN00047	
0025BE	26D4	456	AL2(N00048)	
0025C0	0048	457	XL2*0048'	
000030		458	EQN00048	
0025C2	26D8	459	AL2(N00049)	
0025C4	0049	460	XL2*0049'	
000031		461	EQN00049	
0025C6	26E4	462	AL2(N00050)	
0025C8	0050	463	XL2*0050'	
000032		464	EQN00050	
0025CA	26E8	465	AL2(N00051)	
0025CC	0051	466	XL2*0051'	
000033		467	EQN00051	
0025CE	26FA	468	AL2(N00052)	
0025D0	0052	469	XL2*0052'	
0				

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002624 0100 540+N00010 DC A(@QUES)
002626 2644 541+ DC AL2(N00016)
002628 0100 542+N00011 $QUES QT=(Q00099),YES=N00015,CT=(C00021)
00262A 2640 543+N00011 DC A(@QUES)
00262C 0100 544+ DC AL2(N00015)
00262E 2634 545+N00012 $QUES QT=(Q00105),YES=N00014,CT=(C00103)
002630 0101 546+N00012 DC A(@QUES)
002632 0000 547+ DC AL2(N00014)
002634 0200 548+N00013 $FIXT GTO=((4880,A))
002636 0000 549+N00013 DC A(@FIXT)
002638 F4F8FOFO 550+ DC A(EQ)
00263C C140 551+N00014 $GOTO TYPE=XTRNL,MAP=4800,EP=A,GTO=((4800,A))
00263E 0001 552+N00014 DC A(@GOTO)
002640 0101 553+ DC A(EQ)
002642 27BA 554+ DC CL4'4800'
002644 0100 555+ DC CL2'A'
002646 264C 556+ DC AL2(XTRNL)
002648 0101 557+N00015 $FIXT FT=(F00111),GTO=((4880,A))
00264A 27C6 558+N00015 DC A(@FIXT)
00264C 0100 559+ DC A(F00111)
00264E 265C 560+N00016 $QUES QT=(Q00118),YES=N00018,CT=(C00114)
002650 0101 561+N00016 DC A(@QUES)
002652 27FE 562+ DC AL2(N00018)
002654 0101 563+N00017 $FIXT FT=(F00120),CT=(C00022)
002656 2838 564+N00017 DC A(@FIXT)
002658 0100 565+ DC A(F00120)
00265A 265C 566+N00018 $QUES QT=(Q00126),YES=N00022,CT=(C00124)
00265C 0100 567+N00018 DC A(@QUES)
00265E 2664 568+ DC AL2(N00022)
002660 0101 569+N00019 $QUES QT=(Q00132),YES=N00021,CT=(C00130)
002662 2890 570+N00019 DC A(@QUES)
002664 0101 571+ DC AL2(N00021)
002666 28D0 572+N00020 $FIXT FT=(F00134),CT=(C00022)
002668 0101 573+N00020 DC A(@FIXT)
00266A 2934 574+N00021 $FIXT FT=(F00138),CT=(C00022)
00266C 0100 575+N00021 DC A(F00138)
00266E 267C 576+N00022 $QUES QT=(Q00144),YES=N00024,CT=(C00143)
002670 0100 577+ DC A(@QUES)
002672 2678 578+N00022 $FIXT FT=(F00146),CT=(C00022)
002674 0101 579+N00023 DC A(@FIXT)
002676 2982 580+ DC A(F00146)
002678 0101 581+N00024 $FIXT FT=(F00151),CT=(C00022)
00267A 29BC 582+N00024 DC A(@FIXT)
00267C 0100 583+ DC A(F00151)
00267E 2684 584+N00025 $FIXT FT=(F00157),CT=(C00022)
002680 0101 585+N00025 DC A(@FIXT)
002682 2A14 586+ DC A(F00157)
002684 0101 587+ DC A(F00157)
002686 2A54 588+N00026 $QUES QT=(Q00164),YES=N00030,CT=(C00162)
002688 0100 589+ DC A(@QUES)
00268A 2690 590+N00026 $AL2(N00030)
00268C 0101 591+N00027 $QUES QT=(Q00168),YES=N00029,CT=(C00166)
00268E 2A88 592+ DC A(@QUES)
002690 0100 593+N00027 DC AL2(N00029)
002692 26E8 594+N00028 $FIXT FT=(F00170),CT=(C00022)
002694 0100 595+ DC A(@FIXT)
002696 269C 596+N00028 DC A(F00170)
002698 0101 597+N00029 $FIXT FT=(F00174),CT=(C00022)
00269A 0000 598+ DC A(@FIXT)
00269C 0100 599+N00029 DC A(F00174)
00269E 2684 600+ $QUES QT=(Q00180),YES=N00032,CT=(C00179)
002698 0101 601+ DC A(@QUES)
00269A 2684 602+N00030 DC AL2(N00032)
00269C 0101 603+N00030 $FIXT FT=(F00182),CT=(C00022)
00269E 2684 604+ DC A(@FIXT)
002698 0101 605+N00031 DC A(F00182)
00269A 2684 606+N00031 DC A(F00182)
00269C 0101 607+ $FIXT FT=(F00187),CT=(C00022)
00269E 2684 608+N00032 DC A(@FIXT)
002698 0101 609+N00032 DC A(F00187)
00269A 2684 610+ DC A(F00187)
00269C 0100 611+N00033 $QUES QT=(Q00194),YES=N00035,CT=(C00191)
00269E 2684 612+N00033 DC A(@QUES)
002698 0100 613+ DC AL2(N00035)
00269A 2684 614+N00034 $FIXT FT=(F00198),CT=(C00022)
00269C 0101 615+N00034 DC A(@FIXT)
00269E 2A88 616+ DC A(F00198)
002698 0100 617+N00035 $QUES QT=(Q00208),YES=N00051,CT=(C00205)
00269A 2684 618+N00035 DC A(@QUES)
00269C 0100 619+ DC AL2(N00051)
00269E 2684 620+N00036 $QUES QT=(Q00216),YES=N00038,CT=(C00210)
002698 0100 621+N00036 DC A(@QUES)
00269A 269C 622+ DC AL2(N00038)
00269C 0101 623+N00037 $FIXT GTO=((4880,A))
00269E 0000 624+N00037 DC A(@FIXT)
002698 0100 625+ DC A(EQ)
00269A 0000 626+N00038 $QUES QT=(Q00223),YES=N00042,CT=(C00220)
00269C 0100 627+N00038 DC A(@QUES)
00269E 26AC 628+ DC AL2(N00042)
002698 0100 629+N00039 $QUES QT=(Q00228),YES=N00041,CT=(C00225)
00269A 26AC 630+N00039 DC A(@QUES)
00269C 0100 631+ DC AL2(N00041)
00269E 26AC 632+N00040 $FIXT FT=(F00230),CT=(C00022)
002698 0101 633+N00040 DC A(@FIXT)
00269A 2B22 634+ DC A(F00230)
00269C 0100 635+N00041 $FIXT FT=(F00004),CT=(C00022)
00269E 0000 636+N00041 DC A(@FIXT)
002698 0101 637+ DC A(F00004)
00269A 2B32 638+N00042 $QUES QT=(Q00242),YES=N00044,CT=(C00236)
00269C 0100 639+N00042 DC A(@QUES)
00269E 26BC 640+ DC AL2(N00044)
002698 0100 641+N00043 $GOTO TYPE=XTRNL,MAP=4800,EP=A,FT=(F00244),GTO=((4800,A))
00269A 0200 642+N00043 DC A(@GOTO)
00269C 0200 643+ DC A(F00244)
00269E 0001 644+ DC CL4'4800'
002698 0100 645+ DC CL2'A'
00269A 0001 646+ DC AL2(XTRNL)
00269C 0100 647+N00044 $QUES QT=(Q00249),YES=N00048,CT=(C00247)
00269E 26D4 648+N00044 DC A(@QUES)
002698 0100 649+ DC AL2(N00048)
00269A 0100 650+N00045 $QUES QT=(Q00255),YES=N00047,CT=(C00251)
00269C 0100 651+N00045 DC A(@QUES)
00269E 26D0 652+ DC AL2(N00047)
002698 0100 653+N00046 $GOTO TYPE=XTRNL,MAP=4800,EP=A,GTO=((4800,A))
00269A 0200 654+N00046 DC A(@GOTO)
00269C 0000 655+ DC A(EQ)

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14830 --- DISKETTE UNIT DEVICE P/N=1635305 EC=578757 PAGE 03A
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0026C8 F4F8FOFO 656+ DC CL4'4800'
0026CC C140 657+ DC CL2'A'
0026CE 0001 658+ DC AL2(XTRNL)
0026D0 0101 659+N00047 $FIXT FT=(F00260),CT=(C00022)
0026D2 2B88 660+N00047 DC A(@FIXT)
0026D4 0100 661+ DC A(F00260)
0026D6 26E4 662+N00048 $QUES QT=(Q00269),YES=N00050,CT=(C00264)
0026D8 0200 663+N00048 DC A(@QUES)
0026DA 0000 664+ DC AL2(N00050)
0026DC F3C3FOFO 665+N00049 $GOTO TYPE=XTRNL,MAP=4800,EP=A,FT=(F00271), X
0026DE C140 666+N00049 DC A(@GOTO)
0026E0 0001 667+ DC A(EQ)
0026E2 0001 668+ DC CL4'3C00'
0026E4 0101 669+ DC CL2'A'
0026E6 0101 670+ DC AL2(XTRNL)
0026E8 2BDC 671+N00050 $FIXT FT=(F00276),CT=(C00022)
0026EA 0500 672+N00050 DC A(@FIXT)
0026EC 2716 673+ DC A(F00276)
0026EE 27C0 674+N00051 $TUXX T4853,02,0001,OF,CT=(Q00280),YES=N00057
0026F0 0202 675+N00051 DC A(@TUXX)
0026F2 0001 676+ DC AL2(N00057)
0026F4 0000 677+ DC A(T4853)
0026F6 C1C1 678+ DC AL2(OF)
0026F8 196E 679+ DC AL2(O2)
0026FA 0100 680+ DC X'0001'
0026FC 2702 681+ ALIGN WORD
0026FE 0101 682+ DC AL2(O)
002700 2C20 683+ DC C'AA'
002702 270A 684+ ALIGN WORD
002704 270A 685+ DC AL2(PARMARA)
002706 0101 686+N00052 $QUES QT=(Q00284),YES=N00054,CT=(C00282)
002708 2C54 687+N00052 DC A(@QUES)
00270A 0200 688+ DC AL2(N00054)
00270C 2C20 689+N00053 $FIXT FT=(F00286),CT=(C00022)
00270E 0101 690+N00053 DC A(@FIXT)
002710 2726 691+ DC A(F00286)
002712 0100 692+N00054 $QUES QT=(Q00293),YES=N00056,CT=(C00290)
002714 270A 693+N00054 DC A(@QUES)
002716 0101 694+ DC AL2(N00056)
002718 2726 695+N00055 $FIXT FT=(F00295),CT=(C00022)
00271A 0101 696+N00055 DC A(@FIXT)
00271C 2722 697+ DC A(F00295)
00271E 0101 698+N00056 $GOTO TYPE=INTERNAL,EP=B,GTO=(N00006)
002720 2C7E 699+N00056 DC A(@GOTO)
002722 0101 700+ DC A(EQ)
002724 2CB4 701+ DC CL4'3C00'
002726 0100 702+ DC CL2'B'
002728 272E 703+ DC AL2(INTERNAL),YES=N00061,CT=(C00300),ST=(S00006)
00272A 0101 704+N00057 $QUES QT=(Q00311),YES=N00061,CT=(C00300),ST=(S00006)
00272C 2CDE 705+N00057 DC A(@QUES)
00272E 0100 706+ DC AL2(N00061)
002730 0100 707+N00058 $QUES QT=(Q00316),YES=N00060,CT=(C00313)
002732 2CDE 708+N00058 DC A(@QUES)
002734 0101 709+ DC AL2(N00060)
002736 0101 710+N00059 $FIXT FT=(F00319),CT=(C00022)
002738 2600 711+N00059 DC A(@FIXT)
00273A 2614 712+ DC A(F00319)
00273C 0101 713+N00060 $FIXT FT=(F00323),CT=(C00022)
00273E 0100 714+N00060 DC A(@FIXT)
002740 0100 715+ DC A(F00323)
002742 272E 716+N00061 $QUES QT=(Q00327),YES=N00063,CT=(C00021)
002744 0101 717+N00061 DC A(@QUES)
002746 0101 718+ DC AL2(N00063)
002748 0101 719+N00062 $FIXT FT=(F00330),CT=(C00022)
00274A 0101 720+N00062 DC A(@FIXT)
00274C 0101 721+ DC A(F00330)
00274E 0101 722+N00063 $FIXT FT=(F00334),CT=(C00022)
002750 2D1C 723+N00063 DC A(@FIXT)
002752 0000 724+ DC A(F00334)
002754 0000 725+ DC AL2(DUMMY)
002756 0000 726+ ENTP EQU *
002758 0000 727+ *****
00275A 0000 728+ *****
00275C 0000 729+ *****
00275E 0000 730+ *****
002760 0000 731+ *****
002762 0000 732+ *****
002764 0000 733+ *****
002766 0000 734+ *****
002768 0000 735+ *****
00276A 0000 736+ *****
00276C 0000 737+ *****
00276E 0000 738+ *****
002770 0000 739+ *****
002772 0000 740+ *****
002774 0000 741+ *****
002776 0000 742+ *****
002778 0000 743+ *****
00277A 0000 744+ *****
00277C 0000 745+ *****
00277E 0000 746+ *****
002780 0000 747+ *****
002782 0000 748+ *****
002784 0000 749+ *****
002786 0000 750+ *****
002788 0000 751+ *****
00278A 0000 752+ *****
00278C 0000 753+ *****
00278E 0000 754+ *****
002790 0000 755+ *****
002792 0000 756+ *****
002794 0000 757+ *****
002796 0000 758+ *****
002798 0000 759+ *****
00279A 0000 760+ *****
00279C 0000 761+ *****
00279E 0000 762+ *****
0027A0 0000 763+ *****
0027A2 0000 764+ *****
0027A4 0000 765+ *****
0027A6 0000 766+ *****
0027A8 0000 767+ *****
0027AA 0000 768+ *****
0027AC 0000 769+ *****
0027AE 0000 770+ *****
0027B0 0000 771+ *****

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ENTRY POINT TABLE

MESSAGE TABLE

```

002746 0001 LC
002748 0012 DC
00274A D9C5D7D3C1C3C540C
00275C 0001 EQU
00275E 001A DC
002760 C9D5E2C5D9E340C4C
00277A 0002 EQU
00277C 002E DC
00277E C9D5E2E3C1D3D340D
002780 000C DC
002782 C1D5C440C1F34BF1F
002784 0001 EQU
002786 0008 DC
002788 C5E7E3C5D9D5C1D3

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0027C6 0002 772 F00120 EQU *
0027C7 0012 773 DC AL2(0002)
0027C8 0012 774 DC A(0018)
0027CA D9C5D7D3C1C3C540C 775 DC CL0018 REPLACE AC MOTOR. '
0027DC 0020 776 DC A(0032)
0027DE E2C5C540D4C9D440D 777 DC CL0032 SEE MIM PARA A3.11.5 AND A3.11.6'
0027FE 0002 778 F00134 EQU *
002800 002E 779 DC AL2(0002)
002802 D9C5D7D3C1C3C540C 780 DC A(0046)
002804 0006 781 DC CL0046 REPLACE DISKETTE DRIVE ASSEMBLY. SEE MIM PARA '
002806 0014 782 DC A(0006)
002808 C1F34BF54B40 783 DC CL0006 A3.5. '
00280A 0002 784 FQ0138 EQU *
00280C 002C 785 DC AL2(0002)
00280E D9C5D7D3C1C3C540C 786 DC A(0044)
002810 0026 787 DC CL0044 REPLACE COVER OR COLLET ASSEMBLY AS NEEDED. '
002812 0026 788 DC A(0038)
002814 E2C5C540D4C9D440D 789 DC CL0038 SEE MIM PARA A3.4, A3.8.3 AND A3.8.4. '
002816 0002 790 F00146 EQU *
002818 0018 791 DC AL2(0002)
00281A D9C5D7D3C1C3C540C 792 DC A(0024)
00281C 0022 793 DC CL0024 REPLACE IDLER ASSEMBLY. '
00281E 0022 794 DC A(0034)
002820 E2C5C540D4C9D440D 795 DC CL0034 SEE MIM PARA A3.11.9 AND A3.11.10.'
002822 0003 796 F00151 EQU *
002824 0026 797 DC AL2(0003)
002826 C9D5E2E3C1D3D340C 798 DC A(0038)
002828 0014 800 DC CL0038 INSTALL BELT. IF ERROR IS STILL THERE, '
00282A D9C5D7D3C1C3C540C 801 DC A(0020)
00282C 0022 802 DC CL0020 REPLACE DRIVE MOTOR. '
00282E 0022 803 DC A(0034)
002830 E2C5C540D4C9D440D 804 DC CL0034 SEE MIM PARA A3.11.5 AND A3.11.6. '
002832 0003 805 F00157 EQU *
002834 0028 806 DC AL2(0003)
002836 C4D9C9E5C540D4D6E 807 DC A(0040)
002838 0008 808 DC CL0040 DRIVE MOTOR PULLEY IS LOOSE. ADJUST AND '
00283A E3C9C7C8E3C5D54B 809 DC A(0008)
00283C 0016 810 DC CL0008 TIGHTEN. '
00283E E2C5C540D4C9D440D 811 DC CL0022 SEE MIM PARA A3.11.8. '
002840 0002 812 F00170 EQU *
002842 002E 813 DC AL2(0002)
002844 D9C5D7D3C1C3C540C 814 DC A(0046)
002846 0006 815 DC CL0046 REPLACE DISKETTE DRIVE ASSEMBLY. SEE MIM PARA '
002848 C1F34BF54B40 816 DC A(0006)
00284A 0002 817 DC CL0006 A3.5. '
00284C 002C 818 F00174 EQU *
00284E D9C5D7D3C1C3C540C 819 DC AL2(0002)
002850 E2C5C540D4C9D440D 820 DC A(0044)
002852 0026 821 DC CL0044 REPLACE COVER OR COLLET ASSEMBLY AS NEEDED. '
002854 0026 822 DC A(0038)
002856 E2C5C540D4C9D440D 823 DC CL0038 SEE MIM PARA A3.4, A3.8.3 AND A3.8.4. '
002858 0002 824 F00182 EQU *
00285A 0018 825 DC AL2(0002)
00285C D9C5D7D3C1C3C540C 826 DC A(0024)
00285E E2C5C540D4C9D440D 827 DC CL0024 REPLACE IDLER ASSEMBLY. '
002860 0022 828 DC A(0034)
002862 0002 829 DC CL0034 SEE MIM PARA A3.11.9 AND A3.11.10.'
002864 0002 830 FQ0187 EQU *
002866 000E 831 DC AL2(0002)
002868 D9C5D7D3C1C3C540C 832 DC A(0014)
00286A 0020 833 DC CL0014 REPLACE BELT. '
00286C E2C5C540D4C9D440D 834 DC A(0032)
00286E 0004 835 DC CL0032 SEE MIM PARA A3.11.3 AND A3.11.4'
002870 0004 836 F00198 EQU *
002872 002C 837 DC AL2(0004)
002874 C3C8C5C3D240E3C8C 838 DC A(0044)
002876 E3C8C540C4C9E2D2C 839 DC CL0044 CHECK THE COVER ASSEMBLY FOR DAMAGE. REPLACE '
002878 002A 840 DC A(0042)
00287A E2E3C9D3D340D5D6E 841 DC CL0042 THE DISKETTE DRIVE ASSEMBLY IF THE HUB IS '
00287C 0014 842 DC A(0044)
00287E D4C9D440D7C1D9C14 843 DC CL0044 STILL NOT MOVING WITH THE COVER REMOVED. SEE '
002880 0026 844 DC A(0014)
002882 0002 845 DC CL0014 MIM PARA A3.5. '
002884 0001 846 F00230 EQU *
002886 000C 847 DC AL2(0001)
002888 D3C5C440E6C1E240C 848 DC A(0012)
00288A 0002 849 DC CL0012 LED WAS BAD. '
00288C 0002 850 F00004 EQU *
00288E 0024 851 DC AL2(0002)
002890 D9C5D7D3C1C3C540C 852 DC A(0036)
002892 E2C5C540D4C9D440D 853 DC CL0036 REPLACE DISKETTE DRIVE CONTROL CARD. '
002894 0014 854 DC A(0020)
002896 0002 855 DC CL0020 SEE MIM PARA A3.14. '
002898 0001 856 F00244 EQU *
00289A 0014 857 DC AL2(0001)
00289C C1D3C9C7D5D4C5D5E 858 DC A(0020)
00289E 0002 859 DC CL0020 ALIGNMENT WAS WRONG. '
0028A0 0016 860 F00260 EQU *
0028A2 0026 861 DC AL2(0002)
0028A4 D9C5D7D3C1C3C540D 862 DC A(0022)
0028A6 E2C5C540D4C9D440D 863 DC CL0022 REPLACE PTX ASSEMBLY. '
0028A8 0002 864 DC A(0034)
0028AA 0002 865 DC CL0034 SEE MIM PARA A3.13.7 AND A3.13.8. '
0028AC 0001 866 F00271 EQU *
0028AE 0012 867 DC AL2(0001)
0028B0 C2C1C440D7E3E740C 868 DC A(0018)
0028B2 0002 869 DC CL0018 BAD PTX ASSEMBLY. '
0028B4 002A 870 F00276 EQU *
0028B6 D9C5D7D3C1C3C540C 871 DC AL2(0002)
0028B8 E2C5C540D4C9D440D 872 DC A(0042)
0028BA 0014 873 DC CL0042 REPLACE DISKETTE UNIT DRIVE CONTROL CARD. '
0028BC 0026 874 DC A(0020)
0028BE 0002 875 DC CL0020 SEE MIM PARA A3.14. '
0028C0 0026 876 F00286 EQU *
0028C2 0012 877 DC AL2(0002)
0028C4 D9C5D7D3C1C3C540C 878 DC A(0018)
0028C6 001C 879 DC CL0018 REPLACE AS NEEDED. '
0028C8 E2C5C540D4C9D440D 880 DC A(0028)
0028CA 0001 881 DC CL0028 SEE MIM PARA A3.4 AND A3.8. '
0028CC 0026 882 F00295 EQU *
0028CE C1C4D1E4E2E340E2D 883 DC AL2(0001)
0028D0 0002 884 DC A(0038)
0028D2 0002 885 DC CL0038 ADJUST SOLENOID. SEE MIM PARA A3.10.2. '
0028D4 0002 886 F00319 EQU *
0028D6 AL2(0002) 887 DC

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002C80 002A 888 DC A(0G42)
002C82 D9C5D7D3C1C3C540C 889 DC CL0042 REPLACE DRIVE CONTROL CARD. SEE MIM PARA. '
002CAC 0006 890 DC A(0006)
002CB4 C1F34BF1F44B 891 DC CL0006 A3.14. '
002CB6 0001 892 F00323 EQU *
002CB8 0026 893 DC AL2(0001)
002CB8 D9C5D7D3C1C3C540C 894 DC A(0038)
002CDE 0002 895 DC CL0038 REPLACE DISKETTE UNIT CABLE ASSEMBLY. '
002CDE 0024 896 F00330 EQU *
002CE0 0024 897 DC AL2(0002)
002CE2 D9C5D7D3C1C3C540C 898 DC A(0036)
002D06 0014 899 DC CL0036 REPLACE DISKETTE DRIVE CONTROL CARD. '
002D08 E2C5C540D4C9D440D 900 DC A(0020)
002D1C 0002 901 DC CL0020 SEE MIM PARA A3.14. '
002D1E 002A 902 F00334 EQU *
002D1E 002A 903 DC AL2(0002)
002D20 C3C8C5C3D240C4C9E 904 DC A(0042)
002D24 0026 905 DC CL0042 CHECK DISKETTE UNIT ATTACHMENT CABLE THEN '
002D4C D9C5D7D3C1C3C540C 906 DC A(0038)
002D4C 0026 907 DC CL0038 REPLACE DISKETTE UNIT ATTACHMENT CARD. '
002D72 0000 908 HDIT 0106
002D74 0000 909 X'0000' PROGRAM OPTION CONTROL WORD 1
002D74 0000 910 DC X'0000' PROGRAM OPTION CONTROL WORD 2
000010 0000 911** BIT HEX
000011 0000 912** 0 8
000012 0000 913** 1 4
000013 0000 914** 2 2
000014 0000 915** 3 1
000015 0000 916** 4 8
000016 0000 917** 5 4
000017 0000 918** 6 2
000018 0000 919** 7 1
000019 0000 920** 8 8
00001A 0000 921** 9 4
00001B 0000 922** 10 2
00001C 0000 923** 11 1
00001D 0000 924** 12 8
00001E 0000 925** 13 4
00001F 0000 926** 14 2
00001F 0000 927** 15 1
002D76 0000 928** X'0000' PROGRAM OPTION CONTROL WORD 3
933** 0 MYSTERY INTERRUPT MI 8 CS STATUS IN PROGRESS CS
936** 1 ERROR INTERRUPT ER 9 CS AVAILABLE CSA
937** 2 EXPECTED INTERRUPT XI 10 CS STATUS INTERRUPT ERR CE
938** 3 INTERRUPT RECEIVED IN 11 ISB BITS ON (1-7) ISBON
939** 4 EXPECTED ERR/ATTENT KE 12 TEST UNIT RESULTS VOID NG
940** 5 HARD ERROR FOUND HE 13 OIO CC ERROR IOCC
941** 6 WRONG INTR LEVEL \$LE 14 NO INTERRUPT NOIN
942** 7 NO INTR EXPECTED NI 15 INTERRUPT CC ERROR INCC
943** 8
944** 9
945** MI EQU 32 0
946** ER EQU 33 1
947** XI EQU 34 2
948** IN EQU 35 3
949** XE EQU 36 4
950** HE EQU 37 5
951** \$LE EQU 38 6
952** NI EQU 39 7
953** CSA EQU 40 8
954** IN EQU 41 9
955** CE EQU 42 10
956** ISBON EQU 43 11
957** NG EQU 44 12
958** IOCC EQU 45 13
959** NOIN EQU 46 14
960** INCC EQU 47 15
961**
962** COMMON BUFFER FOR PRINTING DATA
963**
964** \$TUID DC A(*--*) TEST UNIT IDENTIFICATION
965** \$IOLN DC A(*--*) I/O AND INTR CONDITION CODES
966** \$ISE DC A(*--*) R7 INTR STATUS BYTE & DEV ADRS
967** \$ISTIO DC A(*--*) ADRS OF LAST I/O + 4 BYTES
968** \$DEV1 DC A(*--*) DEVICE DEPENDENT DATA
969** \$DEV1 DC A(*--*)
970** \$DEV2 DC A(*--*)
971** \$DEV3 DC A(*--*)
972** \$DEV4 DC A(*--*)
973** \$SCTID EQU DEV1
974** \$DCBUF EQU *
975** \$DCB1 DC A(*--*) LAST DCB TABLE, CONTROL WORD
976** \$DCB2 DC A(*--*) LAST DCB TABLE, DEV DEP WORD
977** \$DCB3 DC A(*--*) LAST DCB TABLE, DEV DEP WORD
978** \$DCB4 DC A(*--*) LAST DCB TABLE, DEV DEP WORD
979** \$DCB5 DC A(*--*) LAST DCB TABLE, DEV DEP WORD
980** \$DCB6 DC A(*--*) LAST DCB TABLE, CHAIN ADRS
981** \$DCB7 DC A(*--*) LAST DCB TABLE, BYTE COUNT
982** \$DCB8 DC A(*--*) LAST DCB TABLE, BUFFER ADDRESS
983**
984** \$CSBUF EQU *
985** \$CSTL1 DC A(*--*) CYCLE STEAL BUFFER, RESIDUAL ADRS
986** \$CSTL2 DC A(*--*) CYCLE STEAL WD 2, DEVICE DEPEND
987** \$CSTL3 DC A(*--*) CYCLE STEAL WD 3, DEVICE DEPEND
988** \$CSTL4 DC A(*--*) CYCLE STEAL WD 4, DEVICE DEPEND
989** \$CSTL5 DC A(*--*) CYCLE STEAL WD 5, DEVICE DEPEND
990** \$CSTL6 DC A(*--*) CYCLE STEAL WD 6, DEVICE DEPEND
991** \$CSTL7 DC A(*--*) CYCLE STEAL WD 7, DEVICE DEPEND
992** \$CSTL8 DC A(*--*) CYCLE STEAL WD 8, DEVICE DEPEND
993**
994** \$SUBN DC A(*--*) LAST SUBROUTINE ADDRESS USED
995** \$DATA DC 2A(*--*) OPTIONAL DATA
996** \$INTL DC X'002*' INTERRUPT LEVEL REQUESTED
997** \$TURTN DC A(*--*) TEST UNIT RETURN ADRS TO MDI
998** \$SVDI DC X'0106' DEVICE ID
999** \$SVCAL DC A(DEVADD) ADRS OF DEVICE ADDRESS
1000** \$DC DC A(*--*) IBIS CYLINDER ADDRESS
1001**
1002** THIS TEST UNIT WILL RETURN TO MDI WITHOUT DOING ANY PROGRAM
1003** FUNCTION. THE RESULTS THAT WERE SET UP IN THE RESULTS AREA ARE
1004** STILL VALID BUT A DIFFERENT TEST IS TO BE PERFORMED.
1005**
1006** \$T3C02 MVWI X'3C02', \$TUID SET UP TEST UNIT ID

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
1007+ BXS (R7) RETURN TO MDI SUPVR
1009 COPY CCMEQU
1010 *****
1011 *
1012 * EQUATED NAMES FOR SUPPORTED SVC'S
1013 *
1014 *****
1015 OUT EQU 0 OUT SVC
1016 OUTIN EQU 1 OUTIN SVC
1017 IDLE EQU 2 IDLE SVC
1018 ASCII EQU 3 HEX TO ASCII SVC
1019 CHNGE EQU 4 CHANGE LEVEL SVC
1020 PGMCK EQU 5 ALLOW RETURN ON PROGRAM CHECK SVC
1021 EXIT EQU 6 EXIT SVC
1022 TERM EQU 7 TERMINATE SVC
1023 RESET EQU 8 RESET DEVICE SVC
1024 RFD EQU 9 READ ID SVC
1025 START EQU 10 START CYCLE STEAL SVC
1026 STCSS EQU 11 START CYCLE STEAL STATUS SVC
1027 PREP EQU 12 PREPARE DEVICE SVC
1028 READO EQU 13 READ WITH FUNCTION BIT 3 OFF SVC
1029 READ1 EQU 14 READ WITH FUNCTION BIT 3 ON SVC
1030 RSTAT EQU 15 READ STATUS SVC
1031 WRIT0 EQU 16 WRITE WITH FUNCTION BIT 3 OFF SVC
1032 WRIT1 EQU 17 WRITE WITH FUNCTION BIT 3 ON SVC
1033 CTRL EQU 18 CONTROL SVC
1034 RINT EQU 19 RELEASE INTERRUPT CONTROL BLOCK SVC
1035 RICB EQU 20 CONNECT INTERRUPT CONTROL BLOCK SVC
1036 HIO EQU 21 HALT I/O
1037 REOSD EQU 22 REQUEST USE OF DCP DISK SVC
1038 RELSD EQU 23 RELEASE USE OF DCP DISK SVC
1039 HALT EQU 24 HALT SVC
1040 ETOH EQU 25 EBCDIC TO HEX SVC (STRING)
1041 HTOE EQU 26 HEX TO EBCDIC SVC (STRING)
1042 ATOH EQU 27 ASCII TO HEX SVC (STRING)
1043 HTOA EQU 28 HEX TO ASCII SVC (STRING)
1044 ETOA EQU 29 EBCDIC TO ASCII SVC (STRING)
1045 ATOE EQU 30 ASCII TO EBCDIC SVC (STRING)
1046 READI EQU 31 READ DATA SETS FOR MDI/UTIL
1047 HALTI EQU 32 WRITE DATA SETS FOR UTIL
1049 *****
1050 *
1051 * EQUATES USED BY TU'S AS CONSTANTS
1052 *
1053 *****
1054 PLUS EQU C'+1 PLUS CHAR
1055 MINUS EQU C'-1 MINUS CHAR
1056 ZERO EQU 0
1057 ONE EQU 1
1058 TWO EQU 2
1059 THREE EQU 3
1060 FOUR EQU 4
1061 FIVE EQU 5
1062 SIX EQU 6
1063 SEVEN EQU 7
1064 EIGHT EQU 8
1065 NINE EQU 9
1066 TEN EQU 10
1067 ELEVN EQU 11
1068 TWELV EQU 12
1069 THRTN EQU 13
1070 FLVTN EQU 14
1071 STXTN EQU 15
1072 STXTN EQU 16
1073 STXTN EQU 17
1074 STXTN EQU 18
1075 ONE2B EQU 128
1076 TWO5B EQU 256
1077 ONEK EQU 1024
1078 TWOK EQU 2048
1079 THREEK EQU 3072
1080 FOURK EQU 4096
1081 M1 EQU -1
1082 M2 EQU -2
1083 M3 EQU -3
1084 M4 EQU -4
1087 *****
1088 *
1089 * THE FOLLOWING ARE EQUATES FOR BIT DISPLACEMENTS FROM THE
1090 * BEGINNING OF THE BYTE TO EACH BIT IN THE WORD OF SWITCHES.
1091 *
1092 *****
1093 BS0 EQU 0
1094 BS1 EQU 1
1095 BS2 EQU 2
1096 BS3 EQU 3
1097 BS4 EQU 4
1098 BS5 EQU 5
1099 BS6 EQU 6
1100 BS7 EQU 7
1101 BS8 EQU 8
1102 BS9 EQU 9
1103 BS10 EQU 10
1104 BS11 EQU 11
1105 BS12 EQU 12
1106 BS13 EQU 13
1107 BS14 EQU 14
1108 BS15 EQU 15
1109 COPY T4853
1110 T4853 TUIT \$ERRS
1111 *****06FEB76**
1112 *****
1113 *
1114 * TEST UNIT
1115 *
1116 * ATTACHMENT CARD/VFO CHECK OUT TEST #10. 3/11/76
1117 *
1118 * PURPOSE
1119 *
1120 * DETERMINE THE FOLLOWING:
1121 * 1. ATTACHMENT CARD ROS IS FUNCTIONING CORRECTLY.
1122 * 2. ECHO CHECKS SHOW ATTACHMENT CARD FAILURE.
1123 * 3. VFO DATA WRAP WORKS.
1124 * 4. DISKETTE SPEED IS CORRECT.
1125 *
1126 * CALLING SEQUENCE
1127 *
1128 * PERFORM THE FOLLOWING:

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
1129** 1. ISSUE START DIAGNOSTIC COMMAND.
1130** 2. CHECK ROS HASH TOTALS.
1131** 3. CHECK DISKETTE SPEED WITH HEADS LOADED.
1132** 4. VERIFY ECHO CHECKS.
1133** 5. VERIFY DATA WRAP THROUGH VFC CARD IN FILE.
1134**
1135**
1136** PROGRAM PASSES STATUS OF ALL LINES IN FOLLOWING FORMAT:
1137**
1138** TURESUL BIT 00----NOT USED
1139** TURESUL BIT 01----NOT USED
1140** TURESUL BIT 02----NOT USED
1141** TURESUL BIT 03----NOT USED
1142** TURESUL BIT 04----NOT USED
1143** TURESUL BIT 05----NOT USED
1144** TURESUL BIT 06----NOT USED
1145** TURESUL BIT 07----NOT USED
1146** TURESUL BIT 08----NOT USED
1147** TURESUL BIT 09----NOT USED
1148** TURESUL BIT 10----NOT USED
1149** TURESUL BIT 11----NOT USED
1150** TURESUL BIT 12----NO INTERRUPT RECEIVED.
1151** TURESUL BIT 13----ROS CHECK MISCOMPARE.
1152** TURESUL BIT 14----ECHO CHECK ERROR.
1153** TURESUL BIT 15----DISK SPEED INCORRECT.
1154** TURESUL BIT 16-31-FIRST ROS CHECK SUM.
1155** TURESUL BIT 32-47-SECONDR ROS CHECK SUM.
1156** TURESUL BIT 48-63-INDEX PERIOD(5F7C=162.5MS/6934=170.9MS)
1157** TURESUL BIT 64-79-DIAGNOSTIC DATA RESULTS FROM WRAP TEST.
1158**
1159** RETURN CONTROL
1160**
1161** B TURTN* RETURN TO MDI SUPERVISOR
1162** *****
1163** T4853 MVW R7 TURTN SAVE RETURN ADDRESS
1164** MVHI X'4853',STUID SAVE TU ID FOR DISELAY
1165** MVA OPN1,R4 SET UP POINTER ADRS IN R4
1166** BAL \$CONC,R6 CLEAR DEV DEP STG AND CONNECT I/O BL
1167** DC A(\$ERRS) ERROR ADRS FOR INVALID PREP
1168**
1169** MVWZ TURESUL,R2 CLEAR RESULTS WORD
1170** MVWZ TURESUL+2,R2 CLEAR RESULTS WORD 2
1171** MVWZ TURESUL+4,R2 CLEAR RESULTS WORD 3
1172** MVWZ TURESUL+6,R2 CLEAR RESULTS WORD 4
1173** MVWZ TURESUL+8,R2 CLEAR RESULTS WORD 5
1174** MVA TURESUL,R2
1175** MVHI X'5000',R0 DELAY TO GET BY BUSY AFTER RESET
1176** JCT *,R0
1177** BAL \$DIAG,R6 READ DIAGNOSTIC
1178** DC A(T53Z) ERROR
1179** TBTR (R4,ER) CHECK FOR CC ERROR
1180** BON \$ERRS EPROR
1181** MVW DIAGW,TURESUL+2 STORE DIAG RESULTS (1ST WD)
1182** MVW DIAGW+4,TURESUL+4 * (3RD WD)
1183** MVW DIAGW+8,TURESUL+6 * (5TH WD)
1184** MVW DIAGW+12,TURESUL+8 * (7TH WD)
1185** AW DIAGW,DIAGW+2 CHECK ROS HASH TOTALS
1186** CWI X'FFFF',DIAGW+2
1187** JE T53A
1188** TBTS (R2,13) OK
1189** T53A AW DIAGW+4,DIAGW+6 CHECK ROS HASH TOTALS
1190** CWI X'FFFF',DIAGW+6
1191** JE T53B
1192** TBTS (R2,13) OK
1193** T53B CWI X'5F7C',DIAGW+8 ROS ERROR
1194** JLT T53C IS 5TH WD BETWEEN X'5F7C' & '6934'
1195** CWI X'6934',DIAGW+8 ERROR
1196** JGT T53D
1197** J T53D ERROR
1198** T53C TBTS (R2,15) DISK SPEED INCORRECT
1199** T53D TWI X'00FF',DIAGW+10 ANY BITS ON IN 8-15 OF 6TH WD
1200** JOFF T53X OK
1201** TBTS (R2,14) ECHO CHECK ERROR
1202** J T53X
1203** T53Z TBTS (R2,12) NO INTERRUPT RECEIVED
1204** T53X EXIT
1205** T53X B RETURN TO MDI CONTROLLER
1206** *****
1207** COPY T48DCB
1208**
1209** *****2/17/76*****
1210**
1211** DCB TABLES
1212**
1213** *****
1214**
1215** **** DIAGNOSTIC DCB *****
1216**
1217** DGDCB DC X'2000' DIAGNOSTIC DCB
1218** DC X'0000' NOT USED
1219** DC X'0000' NOT USED
1220** DC X'0000' NOT USED
1221** DC X'0000' NOT USED
1222** DC X'0000' CHAIN ADDRESS
1223** DC X'000E' BYTE COUNT FOR READ DIAG
1224** DC A(DIAGW) DATA ADDRESS
1225**
1226**
1227** **** RECALIBRATE DCB *****
1228**
1229** CLDCB DC X'0007' RECALIBRATE DCB
1230** DC 7A(*-*)
1231**
1232** **** FORMAT DCB *****
1233**
1234** FRDCB DC X'0002' FORMAT CONTROL WORD
1235** DC X'0000' NOT USED
1236** DC A(*-*) FORMAT DATA WORD
1237** DC A(*-*) N - C BYTES
1238** DC X'0001' H - R BYTES
1239** DC A(*-*) CHAIN ADDRESS
1240** DC F'0' NOT USED
1241** DC F'0' NOT USED
1242**
1243** **** READ SECTOR ID DCB *****
1244**

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
002E8C 200A 1245 RSDCB DC X'200A' READ SECTOR ID
002E8E 0000 1246 X'0000' NOT USED
002E90 0000 1247 DC X'0000' NOT USED
002E92 0000 1248 DC X'0000' NOT USED
002E94 0000 1249 DC X'0000' NOT USED
002E96 0000 1250 DC X'0000' CHAIN ADDRESS
002E98 0004 1251 DC X'0004' BYTE COUNT FOR READ SECTOR ID
002E9A 2D80 1252 DC A(SCIID) SECTOR ID DATA ADDRESS
1253 *
1254 ***** SEEK DCB *****
1255 *
002E9C 0005 1256 SKDCB DC X'0005' SEEK DCB
002E9E 0000 1257 DC X'0000' BIT 3=HEAD;BIT 4=DIRECTION;8-15=DIFF
002EA0 0000 1258 DC F'0'
002EA2 0000 1259 DC F'0'
002EA4 0000 1260 DC F'0'
002EA6 0000 1261 DC F'0'
002EA8 0000 1262 DC F'0'
002EAA 0000 1263 DC F'0'
1264 *
1265 ***** CYCLE STEAL STATUS DCB *****
1266 *
002EAC 2000 1268 CSDCB DC X'2000' CONTROL WORD
002EAE 0000 1269 DC F'0' NOT USED
002EB0 0000 1270 DC F'0' NOT USED
002EB2 0000 1271 DC F'0' NOT USED
002EB4 0000 1272 DC F'0' NOT USED
002EB6 0000 1273 DC F'0' NOT USED
002EB8 0004 1274 DC X'0004' 2 WORDS OF STATS
002EBA 2D98 1275 DC A(CSBUF) ADDRESS OF CYCLE STEAL STATUS DATA
1276 *
1277 ***** WRITE DCB *****
1278 *
002EBC 0001 1279 WRDCB DC X'0001' 8-15=1- ATA AM;8-15=2-CONTROL AM
002EBE 0000 1280 DC F'0' NOT USED
002EC0 0000 1281 DC F'0'
002EC2 0000 1282 DC X'0000' SERCH ARGUMENT N-C
002EC4 0000 1283 DC X'0000' SEARCH ARGUMENT H-R
002EC6 0000 1284 DC A(*-*) CHAIN ADDRESS
002EC8 0000 1285 DC F'0' BYTE COU T
002ECA 0000 1286 DC A(*-*) WRITE DATA ADDRESS
1287 *
1288 ***** VERIFY DCB *****
1289 *
002ECC 000C 1290 VRDCB DC X'000C' CONTROL WORD
002ECE 0000 1291 DC F'0' NOT USED
002ED0 0000 1292 DC F'0' NOT USED
002ED2 0000 1293 DC A(*-*) N-C
002ED4 0000 1294 DC A(*-*) H-R
002ED6 0000 1295 DC A(*-*) CHAIN ADDRESS
002EDA 0000 1296 DC F'0' BYTE COUNT
1297 *
1298 ***** READ DCB *****
1299 *
002EDC 2009 1301 RDECB DC X'2009' READ DCB CONTROL WORD
002EDE 0000 1302 DC F'0' NOT USED
002EE0 0000 1303 DC F'0' NOT USED
002EE2 0000 1304 DC X'0000' SEARCH ARGUMENT N-C
002EE4 0101 1305 DC X'0101' SEARCH ARGUMENT H-R
002EE6 0000 1306 DC A(*-*) CHAIN ADDRESS
002EE8 0D00 1307 DC F'3328' BYTE COUNT
002EBA 0000 1308 DC A(*-*) READ DATA ADDRESS
1309 *
1310 *
1311 *
1312 *
002EEC 1000 1313 COUNT DC F'4096' BYTE COUNT (4096)
002EEE 0C80 1314 CTN32 DC F'3200' BYTE COUNT (3200)
002EF0 0000 1315 SAVE DC X'0000' SCTID INFO
002EF2 0000 1316 DC X'0000' *
002EF4 0000 1317 DIFF DC X'0000' SEEK DIFFERENCE
002EF6 00C8 1318 FDATA DC X'00C8' FORMAT DATA BYTE FOR COMPARE
002EF8 0046 1319 IXX DC X'0046' WORK WORD INT TC ZERO
002EFA 0000 1320 INDEX DC X'0046' TERMINATING SEEK DIFFERENCE
002EFC 0000 1321 ZER00 DC X'0000' CONSTANT ZERO
002EF0 0001 1322 CNE1 DC X'0001' CONSTANT ONE
002F00 0800 1323 REVR DC X'0800' SEEK REVERSE
002F02 0000 1324 HRRR DC X'0000' H-R
002F04 0000 1325 BCNT DC X'0000' BYTE COUNT
002F06 0000 1326 JOE DC X'0000' WRITE PARAMETER POINTER
002F08 0000 1327 JOE1 DC X'0000' SAVE LOC FOR PARM LIST ADDRESS
002F0A 7AE5 1328 WDATA DC X'7AE5' WRITE DATA
002F0C 69ED 1329 DC X'69ED' *
002F0E 0000 1330 CYLND DC X'0000' TEMP SAVE AREA FOR CYLINDER #
002F10 0000 1331 DC X'0000' *
002F12 0000 1332 FORMT DC X'0000' FROMAT BIT FROM OPERATOR
002F14 004C 1333 CYLIN DC X'004C' CYLINDER NUM SELECTED FROM OPERATOR
002F16 0000 1334 HEAD DC X'0000' HEAD NUM SELECTED FROM OPERATOR
002F18 0001 1335 SECT DC F'0001' SECTOR # SELECT BY OPERATOR
002F1A 0D00 1336 BYCNO DC F'3328' BYTE COUNT SELECTED BY OPER
002F1C 0000 1337 TABLE DC A(*-*) ADDR OF WRT PAR LIST FOR FORMAT RTNS
002F1E 0000 1338 DIAGW DC 7A(*-*) DIAGNOSTIC BUFFER
002F20 0000 1339 CONST DC X'0000' SECTOR # PLUS ONE FOR N='X'
002F22 0000 1340 SBYT DC X'0000' FULL BYTE COUNT FOR N='X'
002F24 00FF 1341 CDAT DC X'00FF' CONSTANT '00' & 'FF'
002F26 0000 1342 CTR01 DC X'0000' COUNTER 1
002F28 0000 1343 CTR02 DC X'0000' COUNTER 2
002F2A 0000 1344 CTR03 DC X'0000' COUNTER 3
002F2C 0000 1345 CTR04 DC X'0000' COUNTER 4
002F2E 0000 1346 CTR05 DC X'0000' COUNTER 5
002F30 0000 1347 SAVR3 DC X'0000' SAVE AREA
002F32 0000 1348 SAVR5 DC X'0000' SAVE AREA
002F34 0000 1349 SIDE DC X'0000' SIDE BEING TESTED
002F36 0000 1350 TRK DC X'0000' CURRENT CYLINDER NUMBER
002F38 0000 1351 WTDAT DC X'0000' WORK AREA
002F3A 4C00 1352 SVSIX DC X'4C00' CYLINDER NUMBER 76
1353 *
1354 *
1355 *
1356 *
1357 *
1358 *
1359 *
1360 *
1361 *
EXECUTE INPUT & OUTPUT COMMANDS
TO EXECUTE ALL I/O COMMANDS FROM A COMMON PLACE.
EACH OF THESE ENTRIES SET BY WITH THE ADDR OF ITS PARAMETER
LIST AND ANY SPECIAL SWITCHES BEFORE BRANCHING TO THE
SUPVR CALL.

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
1362 * THIS SUBROUTINE WILL CHECK FOR THE FOLLOWING:
1363 *
1364 * 1. LOST INTERRUPTS BY TIMING OUT A COUNTING LOOP
1365 * 2. ERROR INTERRUPTS RECEIVED FROM SUPVR
1366 * 3. LOOP ON ERROR, THE CALL MUST HAVE A 'DC' STATEMENT AFTER
1367 * THE CALL WITH THE ADDRESS OF THE RETRY STATEMENT
1368 * 4. CYCLE STEAL IN PROGRESS WITH AN ERROR
1369 * 5. SOMETHING ELSE
1370 *
1371 * THIS ROUTINE HAS THE FOLLOWING ENTRIES:
1372 *
1373 * 1 BAL \$SEEK,R6 SEEK
1374 * 2 BAL \$RECL,R6 RECALIBRATE
1375 * 3 BAL \$SRDID,R6 READ SECTOR ID
1376 * 4 BAL \$RD,R6 READ
1377 * 5 BAL \$RDVY,R6 READ VERIFY
1378 * 6 BAL \$WRT,R6 WRITE
1379 * 7 BAL \$FMT,R6 FORMAT
1380 * 8 BAL XIQCS,R6 CYCLE STEAL STATUSB
1381 * 9 BAL \$DIAG,R6 READ DIAGNOSTICS
1382 *
1383 *
1384 *
1385 *
1386 *
1387 *
1388 *
1389 *
1390 *
1391 *
002F48 4020 30AA 2E9C 1392 \$SEEK MVA SKDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
002F4E 502C 1393 J XIO
1394 *
002F50 4020 30AA 2E6C 1395 \$RECL MVA CLDCB,IODCB SET UP BLOCK FOR SVC CALL
002F56 5028 1396 J XIO
1397 *
002F58 4020 30AA 2E8C 1398 \$RDID MVA RSDCB,IODCB SET UP BLOCK FOR SVC CALL
002F5E 4020 2D80 9999 1399 MVWI X'9999',SCTID INVALIDATE SECTOR ID BUFFER AREA
002F64 4020 2D82 9999 1400 MVWI X'9999',SCTID+2
002F6A 501E 1401 J XIO
1402 *
002F6C 0BFF 1403 \$RD MVBI 255,R3 INIT READ BUFFER TO FF'S
002F6E 6D08 2E1A 1404 MVWI RDDCB+14,R5
002F72 4724 0400 1405 MVWI X'0400',R7
002F76 2BAC 1406 FFF R3,(R5)
002F78 4020 30AA 2EDC 1407 \$RDS MVA RDDCB,IODCB SET UP BLOCK FOR SVC CALL
002F7E 5014 1408 J XIO
1409 *
002F80 4020 30AA 2ECC 1410 \$RDVY MVA VRDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
002F86 5010 1411 J XIO
1412 *
002F88 4020 30AA 2EBC 1412 \$WRT MVA WRDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
002F8E 500C 1413 J XIO
1414 *
002F90 4020 30AA 2E7C 1414 \$FMT MVA FRDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
002F96 5008 1415 J XIO
002F98 4020 30AA 2E5C 1416 \$DIAG MVA DGDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
002FA4 4020 30AC 000D 1419 MVWI X'000D',IOMOD MODIFIER FOR DIAG OP
002FA6 5601 1420 J XIO1
1421 CEOP2 BXS (R6,2) DUMMY RETURN TO USER
1422 *
1423 *
1424 *****29JUL76**
1425 *
1426 *
1427 *
1428 *
1429 *
1430 *
1431 *
1432 *
1433 *
1434 *
1435 *
1436 *
1437 *
1438 *
1439 *
1440 *
1441 *
1442 *
1443 *
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1459 *
1460 *
1461 *
1462 *
1463 *
1464 *
1465 *
1466 *
1467 *
1468 *
1469 *
1470 *
1471 *
1472 *
1473 *
1474 *
1475 *
1476 *
1477 *
1478 *
SUB-ROUTINE
EXECUTE INPUT AND OUTPUT COMMANDS
PURPOSE
TO EXECUTE ALL I/O COMMANDS FROM A COMMON PLACE.
THIS SUBROUTINE WILL DO THE FOLLOWING FUNCTIONS:
1. SAVE THE ADDRESS THAT PCINTS TO THE INSTRUCTION THAT STARTED THE I/O COMMAND.
2. THE SAVE THE DCB BLOCK USED UNLESS IT IS A START CYCLE STATUS ISSUED BY THIS SUBROUTINE.
3. CLEAR OUT THE CYCLE STEAL STATUS STORAGE UNLESS THE START CYCLE STATUS WAS ISSUED BY THIS SUBROUTINE.
4. RESETS THE INTERRUPT INDICATOR AND CHECKS FOR ANY INTERRUPT. SINCE THE LAST EXPECTED INTERRUPT. IF AN INTERRUPT IS FOUND, MYSTERY INTERRUPT (MI) CONTROL BIT IS SET.
5. MOVES THE ADDRESS OF THE I/O CONTROL BIT IN R7, SET THE EXPECTED INTERRUPT CONTROL BIT AND ISSUE THE 'SVC START'.
6. WHEN THE SUPVR RETURNS AFTER ISSUING THE I/O COMMAND, TIMING STARTS TO DETERMINE A LOST INTERRUPT.
7. EXCEPT THE INTERRUPT AND GATHER INFORMATION TO DETERMINE IF IT WAS AN ERROR OR OKAY AND EXIT OFF THE INTERRUPT LEVEL.
8. CHECK IF THERE WAS A WRONG INTERRUPT LEVEL.
9. CHECK IF AN ERROR WAS EXPECTED AND IF THERE WAS RETURN.
10. CHECK IF THERE WAS AN ERROR CONDITION IF NOT RETURN.
11. CHECK TO SEE IF THE EXERCISER IS TO BE TERMINATED.
12. CHECK IF A CYCLE STEAL OPERATION WAS IN PROGRESS THAT WAS ISSUED BY THIS SUBROUTINE.
13. CHECK THE ISB BITS THAT ARE ON. IF BIT 0 IS ON, ISSUE A CYCLE STEAL STATUS COMMAND. CHECK FOR ANY OTHER BIT BEING ON, COUNT IT AND SET UP THE PROPER ERROR MESSAGE TO BE PRINTED.
CALLING SEQUENCE
THIS ROUTINE HAS THE FOLLOWING ENTRIES:
--> BAL XIO OR XEQ ANY CYCLE STEAL COMMAND, MOD=0
--> BAL XIO1 MOD PARM PRELOADED IN 'IOMOD'
--> BAL XIQCS,R6 OR XEQ START CYCLE STEAL STATUS, MOD=F
--> BAL XIOCS-4,R6 AUTO CS STATUS (FOLLOWING OTHER XIO AND DOES NOT POST INTERRUPT STATUS)
RETURN CONTROL
BXS (R6,2) RETURN TO USER NO ERROR
OR B (R6) RETURN AND RETRY ON ERROR

1476+XIO MVWZ IOMOD,R3 SET MOD OF 0 FOR CYCLE STEAL OF
J XIO1 CS I/O'S ARE NOT RETRIED

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002FAE	4CAA	1479+	TBTR (R4,CE)	RESET CS STATUS INTER ERROR INDICAT.
002FB0	4C68	1480+	TBTS (R4,CS)	SET 'CYCLE STEAL STATUS' IN PROGRESS
002FB2	4020 30AA 2EAC	1481+XIOCS	MVA CSDCB,IODCB	SET UP CONTROL BLOCK FOR SVC CALL
002FB8	4020 30AC 000F	1482+	MVW X'000E',IOMOD	SET CYCLE STEAL MODIFIER
002FBC	4C28	1483+	TBT (R4,CS)	IS CS IN PROGRESS ERROR CONDITION
002FC0	1213	1484+	JON I/O	* YES, BYPASS SAVING I/O ADRS
002FC2	6E0D 2D7E	1485+XIO1	MVW R6,LS1IO	SAVE IAR FOR RETRY IF REQUESTED
002FC6	4324 2D88	1486+	MVA DCBUF,R3	SET UP TO ADRS TO MOVE DCB TABLE
002FCA	6D08 30AA	1487+	MVW IODCB,R5	* AND THE FROM ADRS, ALONG WITH
002FCE	0F10	1488+	MVBI 16,R7	* THE NUMBER OF MOVES
002FD0	2D64	1489+	MVFN (R5),R3	MOVE 1 STATUS WORD AND ADJUST
002FD2	0BFF	1490+	MVBI 255,R3	CLEAR CYCLE STATUS BUFFER
002FD4	4524 2D98	1491+	MVA CSBUF,R5	* TO ALL ONES *
002FD8	0F10	1492+	MVBI 16,R7	*
002FDA	2BAC	1493+	PFN R3,(R5)	*
002FDC	4020 2D7A 0708	1494+	MVW X'0708',SIOIN	OVERLAY OLD CONDITION CODES
002FE2	CB25 2D7C	1495+	MVWZ \$ISB,R3	ZERO OUT OLD ISB VALUE
		1496+*		IL
002FE6	4CA1	1497+	TBTR (R4,ER)	RESET ANY ERROR BEFORE I/O COMMAND
002FE8	4CA3	1498+XIO2	TBTR (R4,IN)	CLEAR INTERRUPT RECEIVED CNTL BIT
002FEA	4724 30A6	1499+	MVA IOBLK,R7	SET UP CONTROL BLOCK FOR SUPVR
002FEE	4CA6	1500+	TBTR (R4,\$LE)	RESET LEVEL ERROR INDICATOR
002FF0	4C62	1501+	TBTS (R4,XI)	SET EXPECTED INTR CONTROL BIT
002FF2	600A	1502+	SVC START	CALL SUPVR FOR I/O COMMAND
		1503+*		IL
002FF4	4CA7	1504+	TBTR (R4,NI)	IS AN INTR EXPECTED
002FF6	6AC0 0002	1505+	BN (R6,2)	* NO, RETURN TO USER
		1506+*		IL
		1507+*		IL
		1508+*		IL
		1509+*		IL
002FFA	0D00	1510+XIO8	MVBI X'00',R5	SET UP WRK REG FOR 'LOST INTR'
002FFC	4CA3	1511+	TBTR (R4,IN)	HAS INTERRUPT BEEN RECEIVED
002FFE	1238	1512+	JON XIOCK	* YES, CHECK IF ALL WAS SATISFACTORY
003000	6002	1513+*	SVC IDLE	ALLOW ANOTHER PROGRAM A CHANCE TO RUN
		1514+*		SUPVR WILL RETURN HERE
003002	7DA1 0001	1515+	AWI 1,R5	ADVANCE TIME OUT COUNT
003006	18FA	1516+	JNZ XIO8	BCH IF TIME OUT NOT REACHED
003008	4C61	1517+	TBTS (R4,ER)	SET CN ERROR CONTROL BIT
00300A	68D2 0000	1518+	B (R6)*	ERR 'NO INTERRUPT'
		1519+*		*****03FEB76**
		1520+*		IL
		1521+*		IL
		1522+*		IL
		1523+*		IL
		1524+*		IL
		1525+*		IL
		1526+*		IL
		1527+*		IL
		1528+*		IL
		1529+*		IL
		1530+*		IL
		1531+*		IL
		1532+*		IL
		1533+*		IL
		1534+*		IL
		1535+*		IL
		1536+*		IL
		1537+*		IL
		1538+*		IL
		1539+*		IL
		1540+*		IL
		1541+*		IL
		1542+*		IL
		1543+*		IL
		1544+*		IL
		1545+*		IL
		1546+*		IL
		1547+*		IL
		1548+*		IL
		1549+*		IL
00300E	706E	1550+XIOER	DC X'706E'	COPY STATUS ANY LEVEL INTO R3
003010	336A	1551+	SRL 13,R3	POSITION CC CODE TO BITS 13-15
003012	C328 2D7A	1552+	MVB R3,\$IOIN	* PUT IN LOG OUT AREA
003016	68D2 0000	1553+	B (R6)*	RETURN TO USER ERROR HANDLER
		1554+*		*****14APR76**
		1555+*		IL
		1556+*		IL
		1557+*		IL
		1558+*		IL
		1559+*		IL
		1560+*		IL
		1561+*		IL
		1562+*		IL
		1563+*		IL
		1564+*		IL
		1565+*		IL
		1566+*		IL
		1567+*		IL
		1568+*		IL
		1569+*		IL
		1570+*		IL
		1571+*		IL
		1572+*		IL
		1573+*		IL
		1574+*		IL
		1575+*		IL
		1576+*		IL
		1577+*		IL
		1578+*		IL
		1579+*		IL
		1580+*		IL
		1581+*		IL
		1582+*		IL
		1583+*		IL
		1584+*		IL
		1585+*		IL
00301A	706E	1586+INTER	DC X'706E'	COPY STATUS ANY LEVEL INTO R3
00301C	336A	1587+	SRL 13,R3	POSITION INDICATORS IN R3
00301E	4424 2D72	1588+	MVA OPTN1,R4	SET UP BASE ADRS
003022	4C28	1589+	TBT (R4,CS)	IS CS IN PROGRESS
003024	1006	1590+	JOFF INTES	* NO
003026	4C6A	1591+	TBTS (R4,CE)	TURN ON CYCLE STEAL INTER ERROR
003028	6E0D 2DA6	1592+	MVW R7,CS18	SAVE CS ERR USE VALUE, BITS 0-7
00302A	C328 2DA7	1593+	MVB R3,CS18+1	* AND THE COND CODE
003030	500A	1594+	J INTN1	IL
003032	4C24	1595+INTES	TBT (R4,XE)	TEST EXPECTED ATTN / ERROR IND
003034	1002	1596+	JOFF INTET	BCH IF NOT EXPECTED

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
003036	F304	1597+	CBI 4,R3	IS THIS AN 'ATTENTION' INTR
003038	1006	1598+	JE INTR1	* YES, BCH TO END INTR SEQUENCE
00303A	4C61	1599+INTET	TBTS (R4,ER)	SET ERROR ON I/O COMMAND CNTL BIT
00303C	5004	1600+	J INTR1	IL
		1601+*		IL
		1602+*		IL
		1603+*		IL
		1604+*		IL
		1605+*		IL
		1606+*		IL
		1607+*		IL
		1608+*		IL
		1609+*		IL
		1610+*		IL
		1611+*		IL
		1612+*		IL
		1613+*		IL
		1614+*		IL
		1615+*		IL
		1616+*		IL
		1617+*		IL
		1618+*		IL
		1619+*		IL
		1620+*		IL
		1621+*		IL
		1622+*		IL
		1623+*		IL
		1624+*		IL
		1625+*		IL
00303E	706E	1625+INTOK	DC X'706E'	COPY STATUS ANY LEVEL INTO R3
003040	336A	1626+	SRL 13,R3	POSITION INDICATORS IN R3
003042	4424 2D72	1627+	MVA OPTN1,R4	SET UP BASE ADRS
003044	4C63	1628+	TBT (R4,IN)	SET INTERRUPT RECEIVED
003046	4C63	1629+INTR1	TBTS (R4,CS)	IS 'CS IN PROGRESS' ON
003048	4C28	1630+	TBT (R4,CE)	* YES, BCH AROUND UPDATE
00304A	1204	1631+	JON INTR2	SAVE INTERRUPTING CC CODE
00304C	C328 2D7B	1632+	MVB R3,\$IOIN+1	SAVE INTR STATUS AND DEV ADRS
00304E	6F0D 2D7C	1633+	MVW R7,\$ISB	IL
003054		1634+INTR2	EQU *	IL
		1635+*		IL
		1636+*		IL
		1637+*		IL
		1638+*		IL
		1639+*		IL
		1640+*		IL
		1641+*		IL
		1642+*		IL
		1643+*		IL
		1644+*		IL
		1645+*		IL
		1646+*		IL
		1647+*		IL
		1648+*		IL
		1649+*		IL
		1650+*		IL
		1651+*		IL
		1652+*		IL
		1653+*		IL
		1654+*		IL
		1655+*		IL
		1656+*		IL
		1657+*		IL
		1658+*		IL
		1659+*		IL
		1660+*		IL
		1661+*		IL
		1662+*		IL
		1663+*		IL
		1664+*		IL
		1665+*		IL
		1666+*		IL
		1667+*		IL
		1668+*		IL
		1669+*		IL
		1670+*		IL
		1671+*		IL
		1672+*		IL
		1673+*		IL
		1674+*		IL
		1675+*		IL
		1676+*		IL
		1677+*		IL
		1678+*		IL
		1679+*		IL
		1680+*		IL
		1681+*		IL
		1682+*		IL
		1683+*		IL
		1684+*		IL
		1685+*		IL
		1686+*		IL
		1687+*		IL
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		1689+*		IL
		1690+*		IL
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		1692+*		IL
		1693+*		IL
		1694+*		IL
		1695+*		IL
		1696+*		IL
		1697+*		IL
		1698+*		IL
		1699+*		IL
		1700+*		IL
		1701+*		IL
		1702+*		IL
		1703+*		IL
		1704+*		IL
		1705+*		IL
		1706+*		IL
		1707+*		IL
		1708+*		IL
		1709+*		IL
		1710+*		IL
		1711+*		IL
		1712+*		IL
		1713+*		IL
		1714+*		IL
		1715+*		IL

LOCTR	OBJECT TEXT	STMT	SCURCE STATEMENT	COPYRIGHT IBM CORP 1976
		1716**	CR B (R6)*	IF THE DEVICE COULD NOT BE CONNECTED
		1717**		
		1718**	*****	*****
0030BA	0F06	1719+	SCCNC MVEI 6,R7	NUMBER OF BYTE TO CLEAR
0030BC	0B00	1720+	MVEI 0,R3	* AND THE DATA TO USE
0030BE	4524 2D80	1721+	MVA DEV1,R5	* ALONG WITH THE ADRS TO USE
0030C2	2BAC	1722+	MFN R3,(R5)	*
0030C4	CB25 2D76	1723+	MVWZ OPTN3,R3	CLEAR OLD CONTROLS FOR NEW ROUTINE
0030C8	4724 2DB4	1724+	MVA SVCAL,R7	SET UP TO REQUEST DCP SUPR DISK
0030CC	6016	1725+	SVC REQSD	*
0030CE	0FFF	1726+	MVEI -1,R7	SET UP DELAY FOR IBIS
0030D0	BFFF	1727+	JCT	* AND DECREMENT IT DOWN
0030D2	4724 30B2	1728+	MVA INTBL,R7	SET R7 TO CONTROL BLOCK AND
0030D6	6014	1729+	SVC CIBC	* CONNECT IT TO THIS DEVICE
0030D8	6AD0 0000	1730+	BN (R6)*	ERROR RETURN TO USER
		1731**		
0030DC	6828 2DAE 30AA	1732+	SCCNC MVW \$INTL,IODCB	PUT IN LEVEL & INTF PARAMETER
0030E2	4724 30A6	1733+	MVA IOBLK,R7	SET R7 TO CONTROL BLOCK TO PREPARE
0030E6	4020 2D7A 0708	1734+	MVHI X'0708', \$IOIN	INITIALIZE CONDITION CODE STORAGE
0030EC	CB25 2D7C	1735+	MVWZ \$ISB,R3	* AND CLEAR OLD ISB VALUE
0030F0	6E0D 2D7E	1736+	MVN R6, \$STIO	SET UP ADDRESS THAT STARTED LAST I/O
0030F4	600C	1737+	SVC PREP	* AND CALL CN SUPVR
0030F6	5601	1738+	BXS (R6,2)	RETURN TO USER
		1740**	*****06APR76**	*****
		1741**		
		1742**	SUBROUTINE	
		1743**		
		1744**	DISCONNECT THE INTERRUPT CONTRCL BLOCK AND LOG ERRORS	
		1745**		
		1746**	PURPOSE	
		1747**		
		1748**	DISCONNECT THE INTERRUPT CONTROL BLOCK TO THIS DEVICE AND	
		1749**	SET THE 'NO GOOD' CONTROL BIT, THEN LOG THE DATA THAT HAS	
		1750**	BEEN FOUND TO HELP THE OPERATOR DEFINE THE ERROR CONDITION.	
		1751**		
		1752**	CALLING SEQUENCE	
		1753**		
		1754**	THIS SUBROUTINE HAS THE FOLLOWING ENTRIES:	
		1755**		
		1756**	--> B \$ERR\$ SET 'NG' BIT AND CONVERT DATA TO LOG	
		1757**	--> B \$CONX RETURN TO MDI SUPERVISOR TO TEST STS	
		1758**		
		1759**	RETURN CONTROL	
		1760**		
		1761**	B TURTN*	RETURN TO MDI
		1762**	OR B (R6)*	IF THE DEVICE COULD NOT BE CONNECTED
		1763**		
		1764**	*****	*****
0030F8	4020 1818 8000	1765+	\$ERR\$ MVNI X'8000',TUSTATUS	SET ON 'NO GOOD' STATUS BIT
0030FE	4724 326E	1766+	MVA HEBLK,R7	GET ADRS OF CONTROL BLOCK
003102	601A	1767+	SVC HROE	CONVERT HEX TO EBC VIS DCP
003104	0D03	1768+	\$PRNT MVEI 3,R5	
003106	4324 181A	1769+	MVA TUBRK,R3	SET UP BUFFER STORAGE
00310A	6B0D 3266	1770+	MVN R3,BUFPT	
00310E	4124 3196	1771+	MVA LINE1,R1	
003112	0F04	1772+	MVEI 4,R7	
003114	0E08	1773+	MVEI 8,R6	
003116	2B24	1774+	MVFN (R3),(R1)	
003118	0F04	1775+	MVEI 4,R7	
00311A	0A40	1776+	MVEI X'40',R2	
00311C	C258	1777+	MVB R2,(R1)+	
00311E	BEFB	1778+	JCT	
003120	0E08	1779+	MVBUF,R6	
003122	7928	1780+	MVEI 4,R6	
003124	002C	1781+	JCT	
003126	BDF7	1782+	MVNI MVRFB,R5	
003128	4020 1802 F1F0	1783+	MVA EIDMSG10,PID+2	
00312E	4020 19B8 326C	1784+	MVA FAKETU,@DCADD1	
003134	4020 19BA 3268	1785+	MVA DC2PT,@DCADD2	
00313A	402C 19C4 0080	1786+	OVI BIT0080,SUPSTAT	
003140	4324 2D78	1787+	MVA \$TUID,R3	SET UP BUFFER STORAGE
003144	6F13 18BA	1788+	BAL TUMSG*TR*,R7	GO TO MESSAGE WRITER
		1789**		
003148		1789+	\$CONX EQU *	
00314B	8028 2DB1 2DB7	1790+	MVB SCTID+1,SVCAL+3	SETUP CURRENT CYLINDER NUM
00314D	4724 2DB4	1791+	MVA SVCAL,R7	ADDR OF RELEASE PARM LIST
003152	6017	1792+	SVC REISD	RELEASE CONTROL
003154	C720 19D0	1793+	MVB DEVADD,R7	GET DEVICE ADDRESS FROM MDI
003158	6013	1794+	SVC RICB	RELEASE INTERRUPT CONTROL BLOCK
00315A	6812 2DB0	1795+	B TURTN*	RETURN TO MDI SUPERVISOR
		1796**		
00315E	0007	1797+	BEGIN DC A(0007)	NUMBER OF LINES TO PRINT
003160	0008	1798+	DC A(0008)	LINE LENGTH = 8 CHAR
003162	5C5C40C1C2D6D9E3	1799+	DC C'***ABORT'	
00316A	0028	1800+	DC A(0040)	LINE LENGTH = 40 CHAR
00316C	E3E4C9C440C9D6C9D	1801+	DC C'TUID IOIN ISB INST	LINE LENGTH = 40 CHAR
003194	0028	1802+	DC A(0040)	LINE LENGTH = 40 CHAR
003196	40404040404040404	1803+	DC C	
00319E	0028	1804+	DC A(0040)	LINE LENGTH = 40 CHAR
0031C0	C3D5E3D340C4C3C2F	1805+	DC C'CNTRL DCB2 DCB3 DCB4	LINE LENGTH = 40 CHAR
0031E8	0028	1806+	DC A(0040)	LINE LENGTH = 40 CHAR
0031EA	40404040404040404	1807+	DC C	
003212	0028	1808+	DC A(0040)	LINE LENGTH = 40 CHAR
003214	D9E2C9C440C3E260F	1809+	DC C'RSID CS-2 CS-3 CS-4	LINE LENGTH = 40 CHAR
00321C	0028	1810+	DC A(0040)	LINE LENGTH = 40 CHAR
00323E	40404040404040404	1811+	DC C	
		1812**		
003266	0000	1813+	BUFPT DC A(*-*)	
003268	3105	1814+	DC2PT DC A(BEGIN)	
00326A	0101	1815+	DC FAKETU DC X'0101'	
00326C	0101	1816+	DC FAKETU DC X'0101'	
00F1F0		1817+	PIDMSG10 EQU X'F1F0'	
000080		1818+	BIT0080 EQU X'0080'	
		1819**		
		1820**	DATA CONTROL BLOCK FOR CONVERTING HEX TO EBCDIC	
		1821**		
00326E	0030	1822+	HEBLK DC A(48)	NUMBER OF BYTES TO CONVERT
003270	2D78	1823+	DC A(\$TUID)	FROM ADRS
003272	181A	1824+	DC A(TUWORK)	AND THE TO ADRS
		1825*		
000000		1827	END	

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0	.RO.	ABSOLUTE. HEX VALUE (00000000)	
0	.R1.	ABSOLUTE. HEX VALUE (00000001)	
0	.R2.	ABSOLUTE. HEX VALUE (00000002)	
0	.R3.	ABSOLUTE. HEX VALUE (00000003)	1174 1188 1192 1198
0	.R4.	ABSOLUTE. HEX VALUE (00000004)	1403 1406 1476 1486 1489 1490 1493 1495 1551
0	.R5.	ABSOLUTE. HEX VALUE (00000005)	1552 1587 1593 1597 1627 1632 1645 1675 1720
0	.R6.	ABSOLUTE. HEX VALUE (00000006)	1722 1723 1735 1769 1770 1774 1786
0	.R7.	ABSOLUTE. HEX VALUE (00000007)	1165 1179 1479 1480 1483 1497 1498 1500 1501
1719	\$CONC	ADDRESS. HEX LOCATION (000030BA) IN CSECT (I4830)) LENGTH (2)	1504 1510 1516 1588 1589 1591 1595 1599 1628
1789	\$CONX	ADDRESS. HEX LOCATION (00003148) IN CSECT (I4830)) LENGTH (1)	1629 1630 1640 1641 1642 1644 1647 1657 1659
1418	\$DIAG	ADDRESS. HEX LOCATION (00002F98) IN CSECT (I4830)) LENGTH (6)	1661 1664 1666
1765	\$ERR\$	ADDRESS. HEX LOCATION (000030F8) IN CSECT (I4830)) LENGTH (6)	ABSOLUTE. HEX VALUE (00000005)
996	\$INTL	ADDRESS. HEX LOCATION (00002DAE) IN CSECT (I4830)) LENGTH (2)	1404 1406 1487 1489 1491 1493 1509 1514 1636
966	\$IOIN	ADDRESS. HEX LOCATION (00002D7A) IN CSECT (I4830)) LENGTH (2)	1637 1638 1669 1670 1672 1721 1722 1768 1781
967	\$ISB	ADDRESS. HEX LOCATION (00002D7C) IN CSECT (I4830)) LENGTH (2)	ABSOLUTE. HEX VALUE (00000006)
951	\$LE	ABSOLUTE. HEX VALUE (00000026)	1166 1177 1421 1485 1505 1517 1553 1658 1663
965	\$TUID	ADDRESS. HEX LOCATION (00002D78) IN CSECT (I4830)) LENGTH (2)	1665 1671 1674 1676 1730 1736 1738 1773 1778
102	@DCADD1	ADDRESS. HEX LOCATION (000019B8) IN CSECT (I4830)) LENGTH (1)	1779
103	@DCADD2	ADDRESS. HEX LOCATION (000019BA) IN CSECT (I4830)) LENGTH (1)	ABSOLUTE. HEX VALUE (00000007)
39	@FIXT	ABSOLUTE. HEX VALUE (00000101)	1007 1163 1405 1488 1492 1499 1592 1633 1719
41	@GOTO	ABSOLUTE. HEX VALUE (00000200)	1724 1726 1727 1728 1733 1766 1772 1775 1787
38	@QUES	ABSOLUTE. HEX VALUE (00000100)	1791 1793
45	@TUXX	ABSOLUTE. HEX VALUE (00000500)	ADDRESS. HEX LOCATION (000030BA) IN CSECT (I4830)) LENGTH (2)
1797	BEGIN	ADDRESS. HEX LOCATION (0000315E) IN CSECT (I4830)) LENGTH (2)	516 522 531 549 558 564 573 576 582
1818	BIT0080	ABSOLUTE. HEX VALUE (00000080)	585 588 597 600 606 609 615 624 633
1813	BUFPT	ADDRESS. HEX LOCATION (00003266) IN CSECT (I4830)) LENGTH (2)	636 660 672 690 696 711 714 720 723
955	CE	ABSOLUTE. HEX VALUE (0000002A)	ABSOLUTE. HEX VALUE (00000200)
1035	CICB	ABSOLUTE. HEX VALUE (00000014)	552 642 654 666 699
1229	CLDCB	ADDRESS. HEX LOCATION (00002E6C) IN CSECT (I4830)) LENGTH (2)	513 519 525 528 534 537 540 543 546
953	CS	ABSOLUTE. HEX VALUE (00000028)	561 567 570 579 591 594 603 612 618
954	CSA	ABSOLUTE. HEX VALUE (00000029)	621 627 630 639 648 651 663 687 693
984	CSBUF	ADDRESS. HEX LOCATION (00002D98) IN CSECT (I4830)) LENGTH (1)	705 708 717
1268	CSDCB	ADDRESS. HEX LOCATION (00002EAC) IN CSECT (I4830)) LENGTH (2)	ABSOLUTE. HEX VALUE (00000500)
992	CSTL8	ADDRESS. HEX LOCATION (00002DA6) IN CSECT (I4830)) LENGTH (2)	1797
974	DCBUF	ADDRESS. HEX LOCATION (00002D88) IN CSECT (I4830)) LENGTH (1)	1814
1814	DC2PT	ADDRESS. HEX LOCATION (00003268) IN CSECT (I4830)) LENGTH (2)	1785
105	DEVADD	ADDRESS. HEX LOCATION (000019D0) IN CSECT (I4830)) LENGTH (1)	ADDRESS. HEX LOCATION (00003266) IN CSECT (I4830)) LENGTH (2)
969	DEV1	ADDRESS. HEX LOCATION (00002D80) IN CSECT (I4830)) LENGTH (2)	1770
1217	DGDCB	ADDRESS. HEX LOCATION (00002E5C) IN CSECT (I4830)) LENGTH (2)	1479 1591 1661
1338	DIAGW	ADDRESS. HEX LOCATION (00002F1E) IN CSECT (I4830)) LENGTH (2)	ABSOLUTE. HEX VALUE (00000014)
67	DUMMY	ABSOLUTE. HEX VALUE (00000000)	1729
726	ENTPT	ADDRESS. HEX LOCATION (00002734) IN CSECT (I4830)) LENGTH (1)	ADDRESS. HEX LOCATION (00002E6C) IN CSECT (I4830)) LENGTH (2)
47	EQ	ABSOLUTE. HEX VALUE (00000000)	1795
946	ER	ABSOLUTE. HEX VALUE (00000021)	1785
1021	EXIT	ABSOLUTE. HEX VALUE (00000006)	ADDRESS. HEX LOCATION (00002D80) IN CSECT (I4830)) LENGTH (2)
1816	FAKETU	ADDRESS. HEX LOCATION (0000326C) IN CSECT (I4830)) LENGTH (2)	973 1721
1234	FRDCB	ADDRESS. HEX LOCATION (00002E7C) IN CSECT (I4830)) LENGTH (2)	1418
850	F00004	ADDRESS. HEX LOCATION (00002B32) IN CSECT (I4830)) LENGTH (1)	ADDRESS. HEX LOCATION (00002F1E) IN CSECT (I4830)) LENGTH (2)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
754	F00057	ADDRESS. HEX LOCATION(00002746) IN CSECT(I4830) LENGTH(1)
758	F00065	ADDRESS. HEX LOCATION(0000275C) IN CSECT(I4830) LENGTH(1)
762	F00083	ADDRESS. HEX LOCATION(0000277A) IN CSECT(I4830) LENGTH(1)
768	F00111	ADDRESS. HEX LOCATION(000027BA) IN CSECT(I4830) LENGTH(1)
772	F00120	ADDRESS. HEX LOCATION(000027C6) IN CSECT(I4830) LENGTH(1)
778	F00134	ADDRESS. HEX LOCATION(000027FE) IN CSECT(I4830) LENGTH(1)
784	F00138	ADDRESS. HEX LOCATION(00002838) IN CSECT(I4830) LENGTH(1)
790	F00146	ADDRESS. HEX LOCATION(00002890) IN CSECT(I4830) LENGTH(1)
796	F00151	ADDRESS. HEX LOCATION(000028D0) IN CSECT(I4830) LENGTH(1)
804	F00157	ADDRESS. HEX LOCATION(00002934) IN CSECT(I4830) LENGTH(1)
812	F00170	ADDRESS. HEX LOCATION(00002982) IN CSECT(I4830) LENGTH(1)
818	F00174	ADDRESS. HEX LOCATION(000029BC) IN CSECT(I4830) LENGTH(1)
824	F00182	ADDRESS. HEX LOCATION(00002A14) IN CSECT(I4830) LENGTH(1)
830	F00187	ADDRESS. HEX LOCATION(00002A54) IN CSECT(I4830) LENGTH(1)
836	F00198	ADDRESS. HEX LOCATION(00002A88) IN CSECT(I4830) LENGTH(1)
846	F00230	ADDRESS. HEX LOCATION(00002B22) IN CSECT(I4830) LENGTH(1)
856	F00244	ADDRESS. HEX LOCATION(00002B70) IN CSECT(I4830) LENGTH(1)
860	F00260	ADDRESS. HEX LOCATION(00002B88) IN CSECT(I4830) LENGTH(1)
870	F00276	ADDRESS. HEX LOCATION(00002BDC) IN CSECT(I4830) LENGTH(1)
876	F00286	ADDRESS. HEX LOCATION(00002C20) IN CSECT(I4830) LENGTH(1)
882	F00295	ADDRESS. HEX LOCATION(00002C54) IN CSECT(I4830) LENGTH(1)
886	F00319	ADDRESS. HEX LOCATION(00002C7E) IN CSECT(I4830) LENGTH(1)
892	F00323	ADDRESS. HEX LOCATION(00002CB4) IN CSECT(I4830) LENGTH(1)
896	F00330	ADDRESS. HEX LOCATION(00002CDE) IN CSECT(I4830) LENGTH(1)
902	F00334	ADDRESS. HEX LOCATION(00002D1C) IN CSECT(I4830) LENGTH(1)
1822	HEBLK	ADDRESS. HEX LOCATION(0000326E) IN CSECT(I4830) LENGTH(2)
1041	HTOE	ABSOLUTE. HEX VALUE(0000001A)
1017	IDLE	ABSOLUTE. HEX VALUE(00000002)
948	IN	ABSOLUTE. HEX VALUE(00000023)
1689	INTBL	ADDRESS. HEX LOCATION(000030B2) IN CSECT(I4830) LENGTH(2)
1586	INTER	ADDRESS. HEX LOCATION(0000301A) IN CSECT(I4830) LENGTH(2)
1595	INTES	ADDRESS. HEX LOCATION(00003032) IN CSECT(I4830) LENGTH(2)
1599	INTET	ADDRESS. HEX LOCATION(0000303A) IN CSECT(I4830) LENGTH(2)
1626	INTOK	ADDRESS. HEX LOCATION(0000303E) IN CSECT(I4830) LENGTH(2)
63	INTRNL	ABSOLUTE. HEX VALUE(00000000)
1648	INTRX	ADDRESS. HEX LOCATION(0000306E) IN CSECT(I4830) LENGTH(2)
1629	INTR1	ADDRESS. HEX LOCATION(00003046) IN CSECT(I4830) LENGTH(2)
1634	INTR2	ADDRESS. HEX LOCATION(00003054) IN CSECT(I4830) LENGTH(1)
1642	INTR3	ADDRESS. HEX LOCATION(00003062) IN CSECT(I4830) LENGTH(2)
1680	IOBLK	ADDRESS. HEX LOCATION(000030A6) IN CSECT(I4830) LENGTH(2)
1682	IODCB	ADDRESS. HEX LOCATION(000030AA) IN CSECT(I4830) LENGTH(2)
1683	IOMOD	ADDRESS. HEX LOCATION(000030AC) IN CSECT(I4830) LENGTH(2)
37	I4830	CSECT. START(000025Q0) LENGTH(3444) ESDID(0)
1803	LINE1	ADDRESS. HEX LOCATION(00003196) IN CSECT(I4830) LENGTH(40)
968	LSTIO	ADDRESS. HEX LOCATION(00002D7E) IN CSECT(I4830) LENGTH(2)
945	MI	ABSOLUTE. HEX VALUE(00000020)
1774	MVBUF	ADDRESS. HEX LOCATION(00003116) IN CSECT(I4830) LENGTH(2)
957	NG	ABSOLUTE. HEX VALUE(0000002C)
952	NI	ABSOLUTE. HEX VALUE(00000027)
513	N00001	ADDRESS. HEX LOCATION(00002600) IN CSECT(I4830) LENGTH(2)
516	N00002	ADDRESS. HEX LOCATION(00002604) IN CSECT(I4830) LENGTH(2)
519	N00003	ADDRESS. HEX LOCATION(00002608) IN CSECT(I4830) LENGTH(2)
522	N00004	ADDRESS. HEX LOCATION(0000260C) IN CSECT(I4830) LENGTH(2)
525	N00005	ADDRESS. HEX LOCATION(00002610) IN CSECT(I4830) LENGTH(2)
528	N00006	ADDRESS. HEX LOCATION(00002614) IN CSECT(I4830) LENGTH(2)
531	N00007	ADDRESS. HEX LOCATION(00002618) IN CSECT(I4830) LENGTH(2)

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534	N00008	ADDRESS. HEX LOCATION(0000261C) IN CSECT(I4830) LENGTH(2)
537	N00009	ADDRESS. HEX LOCATION(00002620) IN CSECT(I4830) LENGTH(2)
540	N00010	ADDRESS. HEX LOCATION(00002624) IN CSECT(I4830) LENGTH(2)
543	N00011	ADDRESS. HEX LOCATION(00002628) IN CSECT(I4830) LENGTH(2)
546	N00012	ADDRESS. HEX LOCATION(0000262C) IN CSECT(I4830) LENGTH(2)
549	N00013	ADDRESS. HEX LOCATION(00002630) IN CSECT(I4830) LENGTH(2)
552	N00014	ADDRESS. HEX LOCATION(00002634) IN CSECT(I4830) LENGTH(2)
558	N00015	ADDRESS. HEX LOCATION(00002640) IN CSECT(I4830) LENGTH(2)
561	N00016	ADDRESS. HEX LOCATION(00002644) IN CSECT(I4830) LENGTH(2)
564	N00017	ADDRESS. HEX LOCATION(00002648) IN CSECT(I4830) LENGTH(2)
567	N00018	ADDRESS. HEX LOCATION(0000264C) IN CSECT(I4830) LENGTH(2)
570	N00019	ADDRESS. HEX LOCATION(00002650) IN CSECT(I4830) LENGTH(2)
573	N00020	ADDRESS. HEX LOCATION(00002654) IN CSECT(I4830) LENGTH(2)
576	N00021	ADDRESS. HEX LOCATION(00002658) IN CSECT(I4830) LENGTH(2)
579	N00022	ADDRESS. HEX LOCATION(0000265C) IN CSECT(I4830) LENGTH(2)
582	N00023	ADDRESS. HEX LOCATION(00002660) IN CSECT(I4830) LENGTH(2)
585	N00024	ADDRESS. HEX LOCATION(00002664) IN CSECT(I4830) LENGTH(2)
588	N00025	ADDRESS. HEX LOCATION(00002668) IN CSECT(I4830) LENGTH(2)
591	N00026	ADDRESS. HEX LOCATION(0000266C) IN CSECT(I4830) LENGTH(2)
594	N00027	ADDRESS. HEX LOCATION(00002670) IN CSECT(I4830) LENGTH(2)
597	N00028	ADDRESS. HEX LOCATION(00002674) IN CSECT(I4830) LENGTH(2)
600	N00029	ADDRESS. HEX LOCATION(00002678) IN CSECT(I4830) LENGTH(2)
603	N00030	ADDRESS. HEX LOCATION(0000267C) IN CSECT(I4830) LENGTH(2)
606	N00031	ADDRESS. HEX LOCATION(00002680) IN CSECT(I4830) LENGTH(2)
609	N00032	ADDRESS. HEX LOCATION(00002684) IN CSECT(I4830) LENGTH(2)
612	N00033	ADDRESS. HEX LOCATION(00002688) IN CSECT(I4830) LENGTH(2)
615	N00034	ADDRESS. HEX LOCATION(0000268C) IN CSECT(I4830) LENGTH(2)
618	N00035	ADDRESS. HEX LOCATION(00002690) IN CSECT(I4830) LENGTH(2)
621	N00036	ADDRESS. HEX LOCATION(00002694) IN CSECT(I4830) LENGTH(2)
624	N00037	ADDRESS. HEX LOCATION(00002698) IN CSECT(I4830) LENGTH(2)
627	N00038	ADDRESS. HEX LOCATION(0000269C) IN CSECT(I4830) LENGTH(2)
630	N00039	ADDRESS. HEX LOCATION(000026A0) IN CSECT(I4830) LENGTH(2)
633	N00040	ADDRESS. HEX LOCATION(000026A4) IN CSECT(I4830) LENGTH(2)
636	N00041	ADDRESS. HEX LOCATION(000026A8) IN CSECT(I4830) LENGTH(2)
639	N00042	ADDRESS. HEX LOCATION(000026AC) IN CSECT(I4830) LENGTH(2)
642	N00043	ADDRESS. HEX LOCATION(000026B0) IN CSECT(I4830) LENGTH(2)
648	N00044	ADDRESS. HEX LOCATION(000026BC) IN CSECT(I4830) LENGTH(2)
651	N00045	ADDRESS. HEX LOCATION(000026C0) IN CSECT(I4830) LENGTH(2)
654	N00046	ADDRESS. HEX LOCATION(000026C4) IN CSECT(I4830) LENGTH(2)
660	N00047	ADDRESS. HEX LOCATION(000026D0) IN CSECT(I4830) LENGTH(2)
663	N00048	ADDRESS. HEX LOCATION(000026D4) IN CSECT(I4830) LENGTH(2)
666	N00049	ADDRESS. HEX LOCATION(000026D8) IN CSECT(I4830) LENGTH(2)
672	N00050	ADDRESS. HEX LOCATION(000026E4) IN CSECT(I4830) LENGTH(2)
675	N00051	ADDRESS. HEX LOCATION(000026E8) IN CSECT(I4830) LENGTH(2)
687	N00052	ADDRESS. HEX LOCATION(000026FA) IN CSECT(I4830) LENGTH(2)
690	N00053	ADDRESS. HEX LOCATION(000026FE) IN CSECT(I4830) LENGTH(2)
693	N00054	ADDRESS. HEX LOCATION(00002702) IN CSECT(I4830) LENGTH(2)
696	N00055	ADDRESS. HEX LOCATION(00002706) IN CSECT(I4830) LENGTH(2)
699	N00056	ADDRESS. HEX LOCATION(0000270A) IN CSECT(I4830) LENGTH(2)
705	N00057	ADDRESS. HEX LOCATION(00002716) IN CSECT(I4830) LENGTH(2)
708	N00058	ADDRESS. HEX LOCATION(0000271A) IN CSECT(I4830) LENGTH(2)
711	N00059	ADDRESS. HEX LOCATION(0000271E) IN CSECT(I4830) LENGTH(2)
714	N00060	ADDRESS. HEX LOCATION(00002722) IN CSECT(I4830) LENGTH(2)
717	N00061	ADDRESS. HEX LOCATION(00002726) IN CSECT(I4830) LENGTH(2)
720	N00062	ADDRESS. HEX LOCATION(0000272A) IN CSECT(I4830) LENGTH(2)
723	N00063	ADDRESS. HEX LOCATION(0000272E) IN CSECT(I4830) LENGTH(2)
58	OF	ABSOLUTE. HEX VALUE(00000202)

CROSS-REFERENCE LISTING

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
910	OPTN1	678 ADDRESS. HEX LOCATION(00002D72) IN CSECT(I4830) LENGTH(2)
933	OPTN3	1165 1588 1628 ADDRESS. HEX LOCATION(00002D76) IN CSECT(I4830) LENGTH(2)
101	PARMARA	1675 1723 ADDRESS. HEX LOCATION(0000196E) IN CSECT(I4830) LENGTH(1)
69	PID	685 ADDRESS. HEX LOCATION(00001800) IN CSECT(I4830) 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 1782
1817	PIDMSG10	ABSOLUTE. HEX VALUE(0000F1F0)
1027	PREP	1782 ABSOLUTE. HEX VALUE(0000000C)
1301	RDDCB	1737 ADDRESS. HEX LOCATION(00002EDC) IN CSECT(I4830) LENGTH(2)
1038	RELSD	1404 1407 ABSOLUTE. HEX VALUE(00000017)
1037	REQSD	1792 ABSOLUTE. HEX VALUE(00000016)
1034	RICB	1725 ABSOLUTE. HEX VALUE(00000013)
1245	RSDCB	1794 ADDRESS. HEX LOCATION(00002E8C) IN CSECT(I4830) LENGTH(2)
973	SCIID	1398 ADDRESS. HEX LOCATION(00002D80) IN CSECT(I4830) LENGTH(2)
1256	SKDCB	1252 1399 1400 1790 ADDRESS. HEX LOCATION(00002E9C) IN CSECT(I4830) LENGTH(2)
1025	START	1392 ABSOLUTE. HEX VALUE(0000000A)
104	SUPSTAT	1502 ADDRESS. HEX LOCATION(000019C4) IN CSECT(I4830) LENGTH(1)
999	SVCAL	1785 ADDRESS. HEX LOCATION(00002DB4) IN CSECT(I4830) LENGTH(2)
92	TUMSGWTR	1724 1790 1791 ADDRESS. HEX LOCATION(000018BA) IN CSECT(I4830) LENGTH(1)
98	TURESUL	1787 ADDRESS. HEX LOCATION(000018C8) IN CSECT(I4830) LENGTH(1) 1165 1170 1171 1172 1173 1174 1181 1182 1183
997	TURTN	1184 ADDRESS. HEX LOCATION(00002DB0) IN CSECT(I4830) LENGTH(2)
74	TUSTATUS	1163 1795 ADDRESS. HEX LOCATION(00001818) IN CSECT(I4830) LENGTH(1)
75	TUWORK	1765 ADDRESS. HEX LOCATION(0000181A) IN CSECT(I4830) LENGTH(1)
1163	T4853	1769 1824 ADDRESS. HEX LOCATION(00002DC0) IN CSECT(I4830) LENGTH(4)
1189	T53A	677 ADDRESS. HEX LOCATION(00002E26) IN CSECT(I4830) LENGTH(6)
1193	T53B	1187 ADDRESS. HEX LOCATION(00002E36) IN CSECT(I4830) LENGTH(6)
1198	T53C	1191 ADDRESS. HEX LOCATION(00002E48) IN CSECT(I4830) LENGTH(2)
1199	T53D	1194 1196 ADDRESS. HEX LOCATION(00002E4A) IN CSECT(I4830) LENGTH(6)
1205	T53X	1197 ADDRESS. HEX LOCATION(00002E58) IN CSECT(I4830) LENGTH(4)
1203	T53Z	1200 1202 ADDRESS. HEX LOCATION(00002E56) IN CSECT(I4830) LENGTH(2)
1290	VRDCB	1178 ADDRESS. HEX LOCATION(00002ECC) IN CSECT(I4830) LENGTH(2)
1279	WRDCB	1410 ADDRESS. HEX LOCATION(00002EBC) IN CSECT(I4830) LENGTH(2)
949	XE	1413 ABSOLUTE. HEX VALUE(00000024)
947	XI	1595 1657 ABSOLUTE. HEX VALUE(00000022)
1476	XIO	1501 1642 ADDRESS. HEX LOCATION(00002FA8) IN CSECT(I4830) LENGTH(4)
1657	XIOCK	1393 1396 1401 1408 1411 1414 1417 ADDRESS. HEX LOCATION(00003070) IN CSECT(I4830) LENGTH(2)
1664	XIOCO	1511 ADDRESS. HEX LOCATION(00003082) IN CSECT(I4830) LENGTH(2)
1481	XIOCS	1666 ADDRESS. HEX LOCATION(00002FB2) IN CSECT(I4830) LENGTH(6)
1666	XIOCV	1673 ADDRESS. HEX LOCATION(00003086) IN CSECT(I4830) LENGTH(2)
1675	XIOCX	1660 ADDRESS. HEX LOCATION(000030A0) IN CSECT(I4830) LENGTH(4)
1550	XIOEh	1667 ADDRESS. HEX LOCATION(0000300E) IN CSECT(I4830) LENGTH(2)
1485	XIO1	1681 ADDRESS. HEX LOCATION(00002FC2) IN CSECT(I4830) LENGTH(4)
1498	XIO2	1420 1477 ADDRESS. HEX LOCATION(00002FE6) IN CSECT(I4830) LENGTH(2)
1510	XIO8	1484 ADDRESS. HEX LOCATION(00002FFC) IN CSECT(I4830) LENGTH(2)
62	XTRNL	1515 ABSOLUTE. HEX VALUE(00000001) 556 646 658 67C