

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
308			*****	
309			*****	
310			**	
311			** STEP AND RULE ADDRESS TABLE **	
312			**	
313			*****	
314			*****	
0025502	2638	315	DC AL2(N00001)	
0025504	0001	315	DC XL2'0001'	
0025507		316	EQN00001 EQU 0001	
0025508	264C	317	DC AL2(N00002)	
0025508	0002	317	DC XL2'0002'	
002550A	2650	318	EQN00002 EQU 0002	
002550C	0003	319	DC AL2(N00003)	
0025503		319	DC XL2'0003'	
0025509	2654	320	EQN00003 EQU 0003	
0025510	0004	321	DC AL2(N00004)	
0025512	2658	321	DC XL2'0004'	
0025514	0005	322	EQN00004 EQU 0004	
0025517		322	DC AL2(N00005)	
0025519		322	DC XL2'0005'	
0025521	265C	323	EQN00005 EQU 0005	
0025523	0006	324	DC AL2(N00006)	
0025525		324	DC XL2'0006'	
0025527	2660	325	EQN00006 EQU 0006	
0025529	0007	326	DC AL2(N00007)	
0025531		326	DC XL2'0007'	
0025533	2674	327	EQN00007 EQU 0007	
0025535	0008	328	DC AL2(N00008)	
0025537		328	DC XL2'0008'	
0025539	2678	329	EQN00008 EQU 0008	
0025541	0009	330	DC AL2(N00009)	
0025543		330	DC XL2'0009'	
0025545	267C	331	EQN00009 EQU 0009	
0025547	0010	332	DC AL2(N00010)	
0025549		332	DC XL2'0010'	
0025551	2680	333	EQN00010 EQU 0010	
0025553	0011	334	DC AL2(N00011)	
0025555		334	DC XL2'0011'	
0025557	2684	335	EQN00011 EQU 0011	
0025559	0012	336	DC AL2(N00012)	
0025561		336	DC XL2'0012'	
0025563	2688	337	EQN00012 EQU 0012	
0025565	0013	338	DC AL2(N00013)	
0025567		338	DC XL2'0013'	
0025569	269C	339	EQN00013 EQU 0013	
0025571	0014	340	DC AL2(N00014)	
0025573		340	DC XL2'0014'	
0025575	26A0	341	EQN00014 EQU 0014	
0025577	0015	342	DC AL2(N00015)	
0025579		342	DC XL2'0015'	
0025581	26A4	343	EQN00015 EQU 0015	
0025583	0016	344	DC AL2(N00016)	
0025585		344	DC XL2'0016'	
0025587	26A8	345	EQN00016 EQU 0016	
0025589	0017	346	DC AL2(N00017)	
0025591		346	DC XL2'0017'	
0025593	26AC	347	EQN00017 EQU 0017	
0025595	0018	348	DC AL2(N00018)	
0025597		348	DC XL2'0018'	
0025599	26B0	349	EQN00018 EQU 0018	
0025601	0019	350	DC AL2(N00019)	
0025603		350	DC XL2'0019'	
0025605	26C4	351	EQN00019 EQU 0019	
0025607	0020	352	DC AL2(N00020)	
0025609		352	DC XL2'0020'	
0025611	26C8	353	EQN00020 EQU 0020	
0025613	0021	354	DC AL2(N00021)	
0025615		354	DC XL2'0021'	
0025617	26CC	355	EQN00021 EQU 0021	
0025619	0022	356	DC AL2(N00022)	
0025621		356	DC XL2'0022'	
0025623	26D0	357	EQN00022 EQU 0022	
0025625	0023	358	DC AL2(N00023)	
0025627		358	DC XL2'0023'	
0025629	26D4	359	EQN00023 EQU 0023	
0025631	0024	360	DC AL2(N00024)	
0025633		360	DC XL2'0024'	
0025635	26D8	361	EQN00024 EQU 0024	
0025637	0025	362	DC AL2(N00025)	
0025639		362	DC XL2'0025'	
0025641	26EC	363	EQN00025 EQU 0025	
0025643	0026	364	DC AL2(N00026)	
0025645		364	DC XL2'0026'	
0025647	26F0	365	EQN00026 EQU 0026	
0025649	0027	366	DC AL2(N00027)	
0025651		366	DC XL2'0027'	
0025653	26F4	367	EQN00027 EQU 0027	
0025655	0028	368	DC AL2(N00028)	
0025657		368	DC XL2'0028'	
0025659	26F8	369	EQN00028 EQU 0028	
0025661	0029	370	DC AL2(N00029)	
0025663		370	DC XL2'0029'	
0025665	26FC	371	EQN00029 EQU 0029	
0025667	0030	372	DC AL2(N00030)	
0025669		372	DC XL2'0030'	
0025671	2700	373	EQN00030 EQU 0030	
0025673	0031	374	DC AL2(N00031)	
0025675		374	DC XL2'0031'	
0025677	2714	375	EQN00031 EQU 0031	
0025679	0032	376	DC AL2(N00032)	
0025681		376	DC XL2'0032'	
0025683	2718	377	EQN00032 EQU 0032	
0025685	0033	378	DC AL2(N00033)	
0025687		378	DC XL2'0033'	
0025689	271C	379	EQN00033 EQU 0033	
0025691	0034	380	DC AL2(N00034)	
0025693		380	DC XL2'0034'	
0025695	2720	381	EQN00034 EQU 0034	
0025697	0035	382	DC AL2(N00035)	
0025699		382	DC XL2'0035'	
0025701	2724	383	EQN00035 EQU 0035	
0025703	0036	384	DC AL2(N00036)	
0025705		384	DC XL2'0036'	

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
000024		422	EQN00036 EQU 0036	
002524	2728	423	DC AL2(N00037)	
002544	0037	424	DC XL2'0037'	
000025		425	EQN00037 EQU 0037	
002556	273C	426	DC AL2(N00038)	
002598	0038	427	DC XL2'0038'	
000026		428	EQN00038 EQU 0038	
00259A	2740	429	DC AL2(N00039)	
00259C	0039	430	DC XL2'0039'	
000027		431	EQN00039 EQU 0039	
00259E	2744	432	DC AL2(N00040)	
002598	0040	433	DC XL2'0040'	
000028		434	EQN00040 EQU 0040	
00259A	2748	435	DC AL2(N00041)	
002594	0041	436	DC XL2'0041'	
000029		437	EQN00041 EQU 0041	
002596	274C	438	DC AL2(N00042)	
002598	0042	439	DC XL2'0042'	
00002A		440	EQN00042 EQU 0042	
00259A	2750	441	DC AL2(N00043)	
00259C	0043	442	DC XL2'0043'	
00002B		443	EQN00043 EQU 0043	
00259E	2764	444	DC AL2(N00044)	
002598	0044	445	DC XL2'0044'	
00002C		446	EQN00044 EQU 0044	
00259A	2768	447	DC AL2(N00045)	
002594	0045	448	DC XL2'0045'	
00002D		449	EQN00045 EQU 0045	
002596	276C	450	DC AL2(N00046)	
002598	0046	451	DC XL2'0046'	
00002E		452	EQN00046 EQU 0046	
00259A	2770	453	DC AL2(N00047)	
00259C	0047	454	DC XL2'0047'	
00002F		455	EQN00047 EQU 0047	
00259E	2784	456	DC AL2(N00048)	
002598	0048	457	DC XL2'0048'	
000030		458	EQN00048 EQU 0048	
00259A	2788	459	DC AL2(N00049)	
002594	0049	460	DC XL2'0049'	
000031		461	EQN00049 EQU 0049	
002596	278C	462	DC AL2(N00050)	
002598	0050	463	DC XL2'0050'	
000032		464	EQN00050 EQU 0050	
00259A	2790	465	DC AL2(N00051)	
00259C	0051	466	DC XL2'0051'	
000033		467	EQN00051 EQU 0051	
00259E	27A4	468	DC AL2(N00052)	
002598	0052	469	DC XL2'0052'	
000034		470	EQN00052 EQU 0052	
00259A	27A8	471	DC AL2(N00053)	
002594	0053	472	DC XL2'0053'	
000035		473	EQN00053 EQU 0053	
002596	27AC	474	DC AL2(N00054)	
002598	0054	475	DC XL2'0054'	
000036		476	EQN00054 EQU 0054	
00259A	27B0	477	DC AL2(N00055)	
00259C	0055	478	DC XL2'0055'	
000037		479	EQN00055 EQU 0055	
00259E	27C4	480	DC AL2(N00056)	
002598	0056	481	DC XL2'0056'	
000038		482	EQN00056 EQU 0056	
00259A	27C8	483	DC AL2(N00057)	
002594	0057	484	DC XL2'0057'	
000039		485	EQN00057 EQU 0057	
002596	27CC	486	DC AL2(N00058)	
002598	0058	487	DC XL2'0058'	
00003A		488	EQN00058 EQU 0058	
00259A	27D0	489	DC AL2(N00059)	
00259C	0059	490	DC XL2'0059'	
00003B		491	EQN00059 EQU 0059	
00259E	27E4	492	DC AL2(N00060)	
002598	0060	493	DC XL2'0060'	
00003C		494	EQN00060 EQU 0060	
00259A	27E8	495	DC AL2(N00061)	
002594	0061	496	DC XL2'0061'	
00003D		497	EQN00061 EQU 0061	
002596	27EC	498	DC AL2(N00062)	
002598	0062	499	DC XL2'0062'	
00003E		500	EQN00062 EQU 0062	
00259A	27F0	501	DC AL2(N00063)	
00259C	0063	502	DC XL2'0063'	
00003F		503	EQN00063 EQU 0063	
00259E	2804	504	DC AL2(N00064)	
002598	0064	505	DC XL2'0064'	
000040		506	EQN00064 EQU 0064	
00259A	2808	507	DC AL2(N00065)	
002594	0065	508	DC XL2'0065'	
000041		509	EQN00065 EQU 0065	
002596	280C	510	DC AL2(N00066)	
002598	0066	511	DC XL2'0066'	
000042		512	EQN00066 EQU 0066	
00259A	2810	513	DC AL2(N00067)	
00259C	0067	514	DC XL2'0067'	
000043		515	EQN00067 EQU 0067	
00259E	2824	516	DC AL2(N00068)	
002598	0068	517	DC XL2'0068'	
000044		518	EQN00068 EQU 0068	
00259A	2828	519	DC AL2(N00069)	
002594	0069	520	DC XL2'0069'	
000045		521	EQN00069 EQU 0069	
002596	282C	522	DC AL2(N00070)	
002598	0070	523	DC XL2'0070'	
000046		524	EQN00070 EQU 0070	
00259A	2830	525	DC AL2(N00071)	
00259C	0071	526	DC XL2'0071'	
000047		527	EQN00071 EQU 0071	
00259E	2844	528	DC AL2(N00072)	
002598	0072	529	DC XL2'0072'	
000048		530	EQN00072 EQU 0072	
00259A	2848	531	DC AL2(N00073)	
002594	0073	532	DC XL2'0073'	
000049		533	EQN00073 EQU 0073	
002596	284C	534	DC AL2(N00074)	
002598	0074	535	DC XL2'0074'	

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
00004A		536	EQN00074 EQU 0074	
00262A	2850	537	DC AL2(N00075)	
00262C	0075	538	DC XL2'0075'	
00004B		539	EQN00075 EQU 0075	
00262E	2864	540	DC AL2(N00076)	
002630	0076	541	DC XL2'0076'	
00004C		542	EQN00076 EQU 0076	
002632	2868	543	DC AL2(N00077)	
002634	0077	544	DC XL2'0077'	
00004D		545	EQN00077 EQU 0077	
002636	0000	546	DC AL2(DUMMY)	
		547	*****	
		548	*****	
		549	**	
		550	**	RULE INFORMATION TABLE
		551	**	
		552	*****	
		553	*****	
002638	0500	554	N00001 STUXX T7808,04,00000001,OF,QT=(Q00021),YES=N00007,CT=(C00020)	
00263A	2660	555	N00001 DC A(@STUXX)	
00263C	3422	556	N00001 DC AL2(N00007)	
00263E	0202	557	N00001 DC A(T7808)	
002640	0004	558	N00001 DC AL2(OF)	
002642	00000001	559	N00001 DC AL2(04)	
		560	N00001 DC X'00000001'	
002646	0000	561	N00001 ALIGN WORD	
002648	C1C1	562	N00001 DC AL2(0)	
		563	N00001 DC C'AA'	
00264A	196E	564	N00001 ALIGN WORD	
		565	N00001 DC AL2(PAPMARA)	
00264C	0100	566	N00002 \$QUES QT=(Q00025),YES=N00006,CT=(C00023)	
00264E	265C	567	N00002 DC A(@QUES)	
		568	N00002 DC AL2(N00006)	
002650	0100	569	N00003 \$QUES QT=(Q00029),YES=N00005,CT=(C00027)	
002652	2658	570	N00003 DC A(@QUES)	
		571	N00003 DC AL2(N00005)	
002654	0101	572	N00004 \$FIXT FT=(F00031),CT=(C00015)	
002656	2874	573	N00004 DC A(@FIXT)	
		574	N00004 DC A(F00031)	
002658	0101	575	N00005 \$FIXT FT=(F00038),CT=(C00015)	
00265A	2912	576	N00005 DC A(@FIXT)	
		577	N00005 DC A(F00038)	
00265C	0101	578	N00006 \$FIXT FT=(F00045),GTO=((7885,A))	
00265E	29AA	579	N00006 DC A(@FIXT)	
		580	N00006 DC A(F00045)	
002660	0500	581	N00007 STUXX T3C02,04,00000100,OF,YES=N00013,CT=(C00048),ST=(S00016)	
002662	2688	582	N00007 DC A(@STUXX)	
002664	341A	583	N00007 DC AL2(N00013)	
002666	0202	584	N00007 DC A(T3C02)	
002668	0004	585	N00007 DC AL2(OF)	
00266A	00000100	586	N00007 DC AL2(04)	
		587	N00007 DC X'00000100'	
		588	N00007 ALIGN WORD	
00266E	0000	589	N00007 DC AL2(0)	
002670	C1C1	590	N00007 DC C'AA'	
002672	196F	591	N00007 ALIGN WORD	
		592	N00007 DC AL2(PAPMARA)	
002674	0100	593	N00008 \$QUES QT=(Q00053),YES=N00012,CT=(C00051)	
002676	2684	594	N00008 DC A(@QUES)	
		595	N00008 DC AL2(N00012)	
002678	0100	596	N00009 \$QUES QT=(Q00057),YES=N00011,CT=(C00055)	
00267A	2680	597	N00009 DC A(@QUES)	
		598	N00009 DC AL2(N00011)	
00267C	0101	599	N00010 \$FIXT FT=(F00059),CT=(C00015)	
00267E	29CC	600	N00010 DC A(@FIXT)	
		601	N00010 DC A(F00059)	
002680	0101	602	N00011 \$FIXT FT=(F00067),CT=(C00015)	
002682	2A1C	603	N00011 DC A(@FIXT)	
		604	N00011 DC A(F00067)	
002684	0101	605	N00012 \$FIXT FT=(F00064),GTO=((7885,A))	
002686	2A68	606	N00012 DC A(@FIXT)	
		607	N00012 DC A(F00064)	
002688	0500	608	N00013 STUXX T3C02,04,0000010,OF,YES=N00019,CT=(C00072),ST=(S00016)	
00268A	26B0	609	N00013 DC A(@STUXX)	
00268C	341A	610	N00013 DC AL2(N00019)	
00268E	0202	611	N00013 DC A(T3C02)	
002690	0004	612	N00013 DC AL2(OF)	
002692	00000010	613	N00013 DC AL2(04)	
		614	N00013 DC X'00000010'	
		615	N00013 ALIGN WORD	
002696	0000	616	N00013 DC AL2(0)	
002698	C1C1	617	N00013 DC C'AA'	
00269A	196E	618	N00013 ALIGN WORD	
		619	N00013 DC AL2(PAPMARA)	
00269C	0100	620	N00014 \$QUES QT=(Q00077),YES=N00018,CT=(C00075)	
00269E	26AC	621	N00014 DC A(@QUES)	
		622	N00014 DC AL2(N00018)	
0026A0	0100	623	N00015 \$QUES QT=(Q00081),YES=N00017,CT=(C00079)	
0026A2	26A8	624	N00015 DC A(@QUES)	
		625	N00015 DC AL2(N00017)	
0026A4	0101	626	N00016 \$FIXT FT=(F00083),CT=(C00015)	
0026A6	2A8A	627	N00016 DC A(@FIXT)	
		628	N00016 DC A(F00083)	
0026A8	0101	629	N00017 \$FIXT FT=(F00091),CT=(C00015)	
0026AA	2ADA	630	N00017 DC A(@FIXT)	
		631	N00017 DC A(F00091)	
0026AC	0101	632	N00018 \$FIXT FT=(F00088),CT=(C00015)	
0026AE	2B26	633	N00018 DC A(@FIXT)	
		634	N00018 DC A(F00088)	
0026B0	0500	635	N00019 STUXX T3C02,04,00000008,OF,YES=N00025,CT=(C00096),ST=(S00016)	
0026B2	26D8	636	N00019 DC A(@STUXX)	
0026B4	341A	637	N00019 DC AL2(N00025)	
0026B6	0202	638	N00019 DC A(T3C02)	
0026B8	0004	639	N00019 DC AL2(OF)	
0026BA	00000008	640	N00019 DC AL2(04)	
		641	N00019 DC X'00000008'	
		642	N00019 ALIGN WORD	
0026BE	0000	643	N00019 DC AL2(0)	
0026C0	C1C1	644	N00019 DC C'AA'	
0026C2	196E	645	N00019 ALIGN WORD	
		646	N00019 DC AL2(PAPMARA)	
0026C4	0100	647	N00020 \$QUES QT=(Q00101),YES=N00024,CT=(C00099)	
0026C6	26D4	648	N00020 DC A(@QUES)	
		649	N00020 DC AL2(N00024)	

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
0026C8	0100	650	N00021 \$QUES QT=(Q00105),YES=N00023,CT=(C00103)	
0026CA	26D0	651	N00021 DC A(@QUES)	
		652	N00021 DC AL2(N00023)	
0026CC	0101	653	N00022 \$FIXT FT=(F00107),CT=(C00015)	
0026CE	2B44	654	N00022 DC A(@FIXT)	
		655	N00022 DC A(F00107)	
0026D0	0101	656	N00023 \$FIXT FT=(F00115),CT=(C00015)	
0026D2	2B94	657	N00023 DC A(@FIXT)	
		658	N00023 DC A(F00115)	
0026D4	0101	659	N00024 \$FIXT FT=(F00112),CT=(C00015)	
0026D6	2BE0	660	N00024 DC A(@FIXT)	
		661	N00024 DC A(F00112)	
0026D8	0500	662	N00025 STUXX T3C02,04,00000004,OF,YES=N00031,CT=(C00120),ST=(S00016)	
0026DA	2700	663	N00025 DC A(@STUXX)	
0026DC	341A	664	N00025 DC AL2(N00031)	
0026DE	0202	665	N00025 DC A(T3C02)	
0026E0	0004	666	N00025 DC AL2(OF)	
0026E2	00000004	667	N00025 DC AL2(04)	
		668	N00025 DC X'00000004'	
		669	N00025 ALIGN WORD	
0026E6	0000	670	N00025 DC AL2(0)	
0026E8	C1C1	671	N00025 DC C'AA'	
		672	N00025 ALIGN WORD	
0026EA	196E	673	N00025 DC AL2(PAPMARA)	
		674	N00026 \$QUES QT=(Q00125),YES=N00030,CT=(C00123)	
0026EC	0100	675	N00026 DC A(@QUES)	
0026EE	26FC	676	N00026 DC AL2(N00030)	
		677	N00027 \$QUES QT=(Q00129),YES=N00029,CT=(C00127)	
0026F0	0100	678	N00027 DC A(@QUES)	
0026F2	26F8	679	N00027 DC AL2(N00029)	
		680	N00028 \$FIXT FT=(F00131),CT=(C00015)	
0026F4	0101	681	N00028 DC A(@FIXT)	
0026F6	2BFE	682	N00028 DC A(F00131)	
		683	N00029 \$FIXT FT=(F00139),CT=(C00015)	
0026F8	0101	684	N00029 DC A(@FIXT)	
0026FA	2C4E	685	N00029 DC A(F00139)	
		686	N00030 \$FIXT FT=(F00136),CT=(C00015)	
0026FC	0101	687	N00030 DC A(@FIXT)	
0026FE	2C9A	688	N00030 DC A(F00136)	
		689	N00031 STUXX T3C02,04,00000200,OF,YES=N00037,CT=(C00144),ST=(S00016)	
002700	0500	690	N00031 DC A(@STUXX)	
002702	2728	691	N00031 DC AL2(N00037)	
002704	341A	692	N00031 DC A(T3C02)	
002706	0202	693	N00031 DC AL2(OF)	
002708	0004	694	N00031 DC AL2(04)	
00270A	00000200	695	N00031 DC X'00000200'	
		696	N00031 ALIGN WORD	
00270E	0000	697	N00031 DC AL2(0)	
002710	C1C1	698	N00031 DC C'AA'	
		699	N00031 ALIGN WORD	
002712	196E	700	N00032 DC AL2(PAPMARA)	
		701	N00032 \$QUES QT=(Q00149),YES=N00036,CT=(C00147)	
002714	0100	702	N00032 DC A(@QUES)	
002716	2724	703	N00032 DC AL2(N00036)	
		704	N00033 \$QUES QT=(Q00153),YES=N00035,CT=(C00151)	
002718	0100	705	N00033 DC A(@QUES)	
00271A	2720	706	N00033 DC AL2(N00035)	
		707	N00034 \$FIXT FT=(F00155),CT=(C00015)	
00271C	0101	708	N00034 DC A(@FIXT)	
00271E	2CB8	709	N00034 DC A(F00155)	
		710	N00035 \$FIXT FT=(F00163),CT=(C00015)	
002720	0101	711	N00035 DC A(@FIXT)	
002722	2D08	712	N00035 DC A(F00163)	
		713	N00036 \$FIXT FT=(F00160),GTO=((7885,A))	
002724	0101	714	N00036 DC A(@FIXT)	
002726	2D54	715	N00036 DC A(F00160)	
		716	N00037 STUXX T3C02,04,0000020,OF,YES=N00043,CT=(C00168),ST=(S00016)	
002728	0500	717	N00037 DC A(@STUXX)	
00272A	2750	718	N00037 DC AL2(N00043)	
00272C	341A	719	N00037 DC A(T3C02)	
00272E	0202	720	N00037 DC AL2(OF)	
002730	0004	721	N00037 DC AL2(04)	
002732	00000020	722	N00037 DC X'00000020'	
		723	N00037 ALIGN WORD	
002736	0000	724	N00037 DC AL2(0)	
002738	C1C1	725	N00037 DC C'AA'	
		726	N00037 ALIGN WORD	
00273A	196E	727	N00037 DC AL2(PAPMARA)	
		728	N00038 \$QUES QT=(Q00173),YES=N00042,CT=(C00171)	
00273C	0100	729	N00038 DC A(@QUES)	
00273E	274C	730	N00038 DC AL2(N00042)	
		731	N00039 \$QUES QT=(Q00177),YES=N00041,CT=(C00175)	
002740	0100	732	N00039 DC A(@QUES)	
002742	2748	733	N00039 DC AL2(N00041)	
		734	N00040 \$FIXT FT=(F00179),CT=(C00015)	
002744	0101	735	N00040 DC A(@FIXT)	
002746	2D76	736	N00040 DC A(F00179)	
		737	N00041 \$FIXT FT=(F00187),CT=(C00015)	
002748	0101	738	N00041 DC A(@FIXT)	
00274A	2DC6	739	N00041 DC A(F00187)	
		740	N00042 \$FIXT FT=(F00184),GTO=((7885,A))	
00274C	0101	741	N00042 DC A(@FIXT)	
00274E	2E12	742	N00042 DC A(F00184)	
		743	N00043 STUXX T3C02,04,00008000,OF,YES=N00047,CT=(C00192),ST=(S00016)	
002750	0500	744	N00043 DC A(@STUXX)	
002752	2770	745	N00043 DC AL2(N00047)	
002754	341A	746	N00043 DC A(T3C02)	
002756	0202	747	N00043 DC AL2(OF)	
002758	0004	748	N00043 DC AL2(04)	
00275A	00008000	749	N00043 DC X'00008000'	
		750	N00043 ALIGN WORD	
00275E	0000	751	N00043 DC AL2(0)	
002760	C1C1	752	N00043 DC C'AA'	
		753	N00043 ALIGN WORD	
002762	196E	754	N00043 DC AL2(PAPMARA)	
		755	N00044 \$QUES QT=(Q00197),YES=N00046,CT=(C00195)	
002764	0100	756	N00044 DC A(@QUES)	
002766	276C	757	N00044 DC AL2(N00046)	
		758		

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002770	0500	764	N00047	\$TUXX T3C02,04,00004000,OF,YES=N00051,CT=(C00209),ST=(S00016)
002772	2790	765	N00047	DC A(@TUXX)
002774	341A	766		DC AL2(N00051)
002776	0202	767		DC A(T3C02)
002778	0004	768		DC AL2(OF)
00277A	00004000	769		DC AL2(04)
00277E	0000	770		DC X'00004000'
002780	C1C1	771		ALIGN WORD
002782	196E	772		DC AL2(0)
002784	0100	773		DC C'AA'
002786	278C	774		ALIGN WORD
002788	0101	775		DC AL2(PARMAPARA)
00278A	2EDA	776	N00048	\$QUES QT=(000214),YES=N00050,CT=(C00212)
00278C	2F2A	777	N00048	DC A(@QUES)
00278E	0101	778		DC AL2(N00050)
002790	0500	779	N00049	\$FIXT FT=(F00216),CT=(C00015)
002792	27B0	780	N00049	DC A(@FIXT)
002794	341A	781		DC A(F00216)
002796	0202	782	N00050	\$FIXT FT=(F00221),CT=(C00015)
002798	0004	783	N00050	DC A(@FIXT)
00279A	00002000	784		DC A(F00221)
00279C	0000	785	N00051	\$TUXX T3C02,04,00002000,OF,YES=N00055,CT=(C00226),ST=(S00016)
00279E	0000	786	N00051	DC A(@TUXX)
0027A0	C1C1	787		DC AL2(N00055)
0027A2	196E	788		DC A(T3C02)
0027A4	0100	789		DC AL2(OF)
0027A6	27AC	790		DC AL2(04)
0027A8	0101	791		DC X'00002000'
0027AA	2F80	792		ALIGN WORD
0027AC	0101	793		DC AL2(0)
0027AE	2FD0	794		DC C'AA'
0027B0	0500	795		ALIGN WORD
0027B2	27D0	796		DC AL2(PARMAPARA)
0027B4	341A	797	N00052	\$QUES QT=(000231),YES=N00054,CT=(C00229)
0027B6	0202	798	N00052	DC A(@QUES)
0027B8	0004	799		DC AL2(N00054)
0027BA	00001000	800	N00053	\$FIXT FT=(F00233),CT=(C00015)
0027BE	0000	801	N00053	DC A(@FIXT)
0027C0	C1C1	802		DC A(F00233)
0027C2	196E	803	N00054	\$FIXT FT=(F00238),CT=(C00015)
0027C4	0100	804	N00054	DC A(@FIXT)
0027C6	27CC	805		DC A(F00238)
0027C8	0101	806	N00055	\$TUXX T3C02,04,00001000,OF,YES=N00059,CT=(C00243),ST=(S00016)
0027CA	3026	807	N00055	DC A(@TUXX)
0027CC	0101	808		DC AL2(N00059)
0027CE	3076	809		DC A(T3C02)
0027D0	0500	810		DC AL2(OF)
0027D2	27F0	811		DC AL2(04)
0027D4	341A	812		DC X'00001000'
0027D6	0202	813		ALIGN WORD
0027D8	0004	814		DC AL2(0)
0027DA	00000800	815		DC C'AA'
0027DE	0000	816		ALIGN WORD
0027E0	C1C1	817		DC AL2(PARMAPARA)
0027E2	196E	818	N00056	\$QUES QT=(000248),YES=N00058,CT=(C00246)
0027E4	0100	819	N00056	DC A(@QUES)
0027E6	27EC	820		DC AL2(N00058)
0027E8	0101	821	N00057	\$FIXT FT=(F00250),CT=(C00015)
0027EA	30CC	822	N00057	DC A(@FIXT)
0027EC	0101	823		DC A(F00250)
0027EE	311C	824	N00058	\$FIXT FT=(F00255),CT=(C00015)
0027F0	0500	825	N00058	DC A(@FIXT)
0027F2	2810	826		DC A(F00255)
0027F4	341A	827	N00059	\$TUXX T3C02,04,00000800,OF,YES=N00063,CT=(C00260),ST=(S00016)
0027F6	0202	828	N00059	DC A(@TUXX)
0027F8	0004	829		DC AL2(N00063)
0027FA	00000400	830		DC A(T3C02)
0027FE	0000	831		DC AL2(OF)
002800	C1C1	832		DC AL2(04)
002802	196E	833		DC X'00000800'
002804	0100	834		ALIGN WORD
002806	280C	835		DC AL2(0)
002808	0101	836		DC C'AA'
00280A	3172	837		ALIGN WORD
00280C	0101	838		DC AL2(PARMAPARA)
00280E	31C2	839	N00060	\$QUES QT=(000265),YES=N00062,CT=(C00263)
002810	0500	840	N00060	DC A(@QUES)
002812	2830	841		DC AL2(N00062)
002814	341A	842	N00061	\$FIXT FT=(F00267),CT=(C00015)
002816	0202	843	N00061	DC A(@FIXT)
002818	0004	844		DC A(F00267)
00281A	00000080	845	N00062	\$FIXT FT=(F00272),CT=(C00015)
00281E	0000	846	N00062	DC A(@FIXT)
002820	0100	847		DC A(F00272)
002822	280C	848	N00063	\$TUXX T3C02,04,00000400,OF,YES=N00067,CT=(C00277),ST=(S00016)
002824	0101	849	N00063	DC A(@TUXX)
002826	3172	850		DC AL2(N00067)
002828	0101	851		DC A(T3C02)
00282A	0101	852		DC AL2(OF)
00282C	3172	853		DC AL2(04)
00282E	0101	854		DC X'00000400'
002830	0101	855		ALIGN WORD
002832	31C2	856		DC AL2(0)
002834	0100	857		DC C'AA'
002836	280C	858		ALIGN WORD
002838	0101	859		DC AL2(PARMAPARA)
00283A	0100	860	N00064	\$QUES QT=(000283),YES=N00066,CT=(C00280)
00283C	280C	861	N00064	DC A(@QUES)
00283E	0101	862		DC AL2(N00066)
002840	0101	863	N00065	\$FIXT FT=(F00285),CT=(C00015)
002842	3172	864	N00065	DC A(@FIXT)
002844	0101	865		DC A(F00285)
002846	0101	866	N00066	\$FIXT FT=(F00290),CT=(C00015)
002848	0101	867	N00066	DC A(@FIXT)
00284A	0500	868		DC A(F00290)
00284C	2830	869	N00067	\$TUXX T3C02,04,00000080,OF,YES=N00071,CT=(C00295),ST=(S00016)
00284E	341A	870	N00067	DC A(@TUXX)
002850	0202	871		DC AL2(N00071)
002852	0004	872		DC A(T3C02)
002854	00000080	873		DC AL2(OF)
002856	0000	874		DC AL2(04)
002858	0000	875		DC X'00000080'
00285A	0000	876		ALIGN WORD
00285C	0000	877		DC AL2(0)

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002820	C1C1	878		DC C'AA'
002822	196E	879		ALIGN WORD
002824	0100	880		DC AL2(PARMAPARA)
002826	282C	881	N00068	\$QUES QT=(000300),YES=N00070,CT=(C00298)
002828	0101	882	N00068	DC A(@QUES)
00282A	3218	883		DC AL2(N00070)
00282C	0101	884	N00069	\$FIXT FT=(F00302),CT=(C00015)
00282E	3268	885	N00069	DC A(@FIXT)
002830	0500	886		DC A(F00302)
002832	2850	887	N00070	\$FIXT FT=(F00307),CT=(C00015)
002834	341A	888	N00070	DC A(@FIXT)
002836	0202	889	N00070	DC A(F00307)
002838	0004	890	N00071	\$TUXX T3C02,04,00000040,OF,YES=N00075,CT=(C00312),ST=(S00016)
00283A	00000040	891	N00071	DC A(@TUXX)
00283C	0000	892		DC AL2(N00075)
00283E	0000	893		DC A(T3C02)
002840	C1C1	894		DC AL2(OF)
002842	196E	895		DC AL2(04)
002844	0100	896		DC X'00000040'
002846	284C	897		ALIGN WORD
002848	0101	898		DC AL2(0)
00284A	32BE	899		DC C'AA'
00284C	0101	900		ALIGN WORD
00284E	330E	901		DC AL2(PARMAPARA)
002850	0500	902	N00072	\$QUES QT=(000317),YES=N00074,CT=(C00315)
002852	2858	903	N00072	DC A(@QUES)
002854	341A	904		DC AL2(N00074)
002856	0202	905	N00073	\$FIXT FT=(F00319),CT=(C00015)
002858	0004	906	N00073	DC A(@FIXT)
00285A	00000002	907		DC A(F00319)
00285C	0000	908	N00074	\$FIXT FT=(F00324),CT=(C00015)
00285E	C1C1	909	N00074	DC A(@FIXT)
002860	196E	910		DC A(F00324)
002862	0101	911	N00075	\$TUXX T3C02,04,00000002,OF,YES=N00077,CT=(C00329),ST=(S00016)
002864	0101	912	N00075	DC A(@TUXX)
002866	3364	913		DC AL2(N00077)
002868	0101	914		DC A(T3C02)
00286A	33B4	915		DC AL2(OF)
00286C	0000	916		DC AL2(04)
00286E	0000	917		DC X'00000002'
002870	C140	918		ALIGN WORD
002872	2638	919		DC AL2(0)
002874	0000	920		DC C'AA'
002876	0000	921		ALIGN WORD
002878	0000	922		DC AL2(PARMAPARA)
002880	0004	923	N00076	\$FIXT FT=(F00332),CT=(C00015)
002882	002C	924	N00076	DC A(@FIXT)
002884	C9D5E2D7C5C3E340C	925		DC A(F00332)
002886	002A	926	N00077	\$FIXT FT=(F00337)
002888	C1D5C440F4F9F6F26	927	N00077	DC A(@FIXT)
002890	0028	928		DC A(F00337)
002892	F4F9F6F240E5D6D3E	929		DC A(F0033)
002894	0028FA	930		DC AL2(DUMMY)
002896	0016	931		EQU *
002898	D4C1D7F7F8F8F540C	932		*****
00289A	002912	933		*****
00289C	0004	934		*****
00289E	0028	935		*****
002900	0028	936		*****
002902	0028	937		*****
002904	D9C5D7D3C1C3C540C	938		*****
002906	002A	939		*****
002908	C3C1C2D3C5E240C2C	940		*****
002910	0026	941		*****
002912	E5D6D3E3C1C7C540C	942		*****
002914	0016	943		*****
002916	D4C1D7F7F8F8F540C	944		*****
002918	0029AA	945		*****
002920	0001	946		*****
002922	001E	947		*****
002924	C7D6E3D640D7C1D7C	948		*****
002926	002C	949		*****
002928	0002	950		*****
002930	002C	951		*****
002932	002C	952		*****
002934	D9C5D7D3C1C3C540F	953		*****
002936	001E	954		*****
002938	C3C1C2D3C5E240C2C	955		*****
002940	002A1C	956		*****
002942	0002	957		*****
002944	0028	958		*****
002946	D9C5D7D3C1C3C540C	959		*****
002948	001E	960		*****
002950	C3C1C2D3C5E240C2C	961		*****
002952	002A68	962		*****
002954	001E	963		*****
002956	001E	964		*****
002958	C7D6E3D640D7C1D7C	965		*****
002960	001E	966		*****
002962	001E	967		*****
002964	002A8A	968		*****
002966	0002	969		*****
002968	002C	970		*****
002970	002C	971		*****
002972	002C	972		*****
002974	002C	973		*****
002976	D9C5D7D3C1C3C540F	974		*****
002978	001E	975		*****
002980	C3C1C2D3C5E240C2C	976		*****
002982	002A1C	977		*****
002984	0002	978		*****
002986	0028	979		*****
002988	D9C5D7D3C1C3C540C	980		*****
002990	001E	981		*****
002992	C3C1C2D3C5E240C2C	982		*****
002994	002A68	983		*****
002996	001E	984		*****
002998	001E	985		*****
003000	C7D6E3D640D7C1D7C	986		*****
003002	001E	987		*****
003004	001E	988		*****
003006	002A8A			

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM COP 1976
002A8E D9C5D7D3C1C3C540F 992 DC CL0044'REPLACE 4962 ATTACH CAPD, INSPECT AND RESEAT'

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM COP 1976
003026 0002 1106 DC AL2(0002)
003028 002C 1107 DC A(0044)

IOCTR OBJECT TEXT STMT SOURCE STATEMENT
00002A 1222+CE EQU 42 10 2 CYCLE STEAL STATUS INERRRUPT ERROR
00002B 1223+ISBON EQU 43 11 1 ISB BITS ON (1-7)
00002C 1224+NG EQU 44 12 8 TEST UNIT RESULTS NO GOOD
00002D 1225+IOCC EQU 45 13 4 OTO CC ERROR
00002E 1226+NOIN EQU 46 14 2 NO INTERRUPT
00002F 1227+INCC EQU 47 15 1 INIEPRUPT CC ERPOP
1228+* COMMON BUFFER FOP PRINTING DATA
1229+*
1230+* TEST UNIT IDENTIFICATION
1231+* I/O AND INTR CONDITION CODES
1232+* R7 INTR STATUS BYTE & DEV ADRS
1233+* ADDS OF LAST I/O + 4 BYTES
1234+* DEVICE DEPENDENT DATA
1235+*
1236+*
1237+*
1238+*
1239+*
1240+* PEAD ID BUFFER FOR IBIS & TEPN
1241+* DCB BUFFER FOP LAST DCP USED
1242+* LAST DCP TABLE, CONTROL WORD
1243+* LAST DCP TABLE, DEV DEP WORD
1244+* LAST DCP TABLE, DEV DEP WORD
1245+* LAST DCP TABLE, DEV DEP WORD
1246+* LAST DCP TABLE, DEV DEP WORD
1247+* LAST DCP TABLE, CHAIN ADRS
1248+* LAST DCP TABLE, BYTE COUNT
1249+* LAST DCP TABLE, BUFFER ADDRESS
1250+*
1251+* CYCLE STEAL DATA BUFFER
1252+* CYCLE STEAL BUFFER, RESIDUAL ADPS
1253+* CYCLE STEAL WD 2, DEVICE DEPEND
1254+* CYCLE STEAL WD 3, DEVICE DEPEND
1255+* CYCLE STEAL WD 4, DEVICE DEPEND
1256+* CYCLE STEAL WD 5, DEVICE DEPEND
1257+* CYCLE STEAL WD 6, DEVICE DEPEND
1258+* CYCLE STEAL WD 7, DEVICE DEPEND
1259+* CYCLE STEAL WD 8, DEVICE DEPEND
1260+*
1261+* LAST SUBROUTINE ADDRESS USED
1262+* OPTIONAL DATA
1263+* INTERRUPT LEVEL REQUESTED
1264+* TEST UNIT RETURN ADPS TO MDI
1265+* DEVICE ID
1266+* ADRS OF DEVICE ADDRESS
1267+* IBIS CYLINDER ADDRESS
1268+*
1269+* THIS TEST UNIT WILL RETURN TO MDI WITHOUT DOING ANY PPROGRAM
1270+* FUNCTION. THE RESULTS THAT WERE SET UP IN THE RESULTS AREA ARE
1271+* STILL VALID BUT A DIFFERENT TEST IS TO BE PERFORMED.
1272+*
1273+* MVWI X'3C02', \$TUID SET UP TEST UNIT ID
1274+* BXS (P7) RETURN TO MDI SUPVR
1276+* COPY COMEQU
1277+*
1278+*
1279+* EQUATED NAMES FOP SUPPOTED SVC'S
1280+*
1281+*
1282+* OUT EQU 0 OUT SVC
1283+* OUTIN EQU 1 OUTIN SVC
1284+* IDLE EQU 2 IDLE SVC
1285+* ASCII EQU 3 HEX TO ASCII SVC
1286+* CHNGE EQU 4 CHANGE LEVEL SVC
1287+* PGMCK EQU 5 ALLOW RETURN ON PROGPAM CHECK SVC
1288+* EXIT EQU 6 EXIT SVC
1289+* TERM EQU 7 TERMINATE SVC
1290+* RESET EQU 8 RESET DEVICE SVC
1291+* PID EQU 9 PEAD TD SVC
1292+* START EQU 10 START CYCLE STEAL SVC
1293+* STCSS EQU 11 START CYCLE STEAL STATUS SVC
1294+* PREPARE EQU 12 PREPARE DEVICE SVC
1295+* READ0 EQU 13 PEAD WITH FUNCTION BIT 3 OFF SVC
1296+* READ1 EQU 14 PEAD WITH FUNCTION BIT 3 ON SVC
1297+* RSTAT EQU 15 PEAD STATUS SVC
1298+* WRITO EQU 16 WRITE WITH FUNCTION BIT 3 OFF SVC
1299+* WRIT1 EQU 17 WRITE WITH FUNCTION BIT 3 ON SVC
1300+* CTRL EQU 18 CONTROL SVC
1301+* RIBC EQU 19 RELEASE INTERRUPT CONTROL BLOCK SVC
1302+* CICB EQU 20 CONNECT INTERUPT CONTROL BLOCK SVC
1303+* HIO EQU 21 HALT ALL I/O
1304+* REQSD EQU 22 REQUEST USE OF DCP DISK SVC
1305+* RELSD EQU 23 RELEASE USE OF DCP DISK SVC
1306+* HALT EQU 24 HALT SVC
1307+* ETOH EQU 25 EBCDIC TO HEX SVC (STPING)
1308+* HTOE EQU 26 HEX TO EBCDIC SVC (STRING)
1309+* ATOH EQU 27 ASCII TO HEX SVC (STRING)
1310+* HTOA EQU 28 HEX TO ASCII SVC (STPING)
1311+* ETOA EQU 29 EBCDIC TO ASCII SVC (STRING)
1312+* ATOE EQU 30 ASCII TO EBCDIC SVC (STRING)
1313+* READI EQU 31 PEAD DATA SETS FOR MDI/UTIL
1314+* WRITI EQU 32 WRITE DATA SETS FOR UTIL
1316+*
1317+*
1318+* EQUATES USED BY TU'S AS CONSTANTS
1319+*
1320+*
1321+* PLUS EQU C'+' PLUS CHAR
1322+* MINUS EQU C'-' MINUS CHAR
1324+* ZERO EQU 0
1325+* ONE EQU 1
1326+* TWO EQU 2
1327+* THREE EQU 3
1328+* FOUR EQU 4
1329+* FIVE EQU 5
1330+* SIX EQU 6
1331+* SEVEN EQU 7
1332+* EIGHT EQU 8
1333+* NINE EQU 9
1334+* TEN EQU 10
1335+* ELEVN EQU 11
1336+* TWELV EQU 12
1337+* THRRTN EQU 13
1338+* FIVTNT EQU 15
1339+* SIXTNT EQU 16

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
000020 1340 THRY2 EQU 32 32
000040 1341 SIXT4 EQU 64 64
000080 1342 ONE28 EQU 128 128
000100 1343 TWO56 EQU 256 256
000400 1344 ONEK EQU 1024 1024
000800 1345 TWOK EQU 2048 2048
000C00 1346 THREK EQU 3072 3072
001000 1347 FOUPE EQU 4096 4096
001000 1348 M1 EQU -1 -1
001000 1349 M2 EQU -2 -2
001000 1350 M3 EQU -3 -3
001000 1351 M4 EQU -4 -4
1354 *****
1355 *
1356 * THE FOLLOWING ARE EQUATES FOP BIT DISPLACEMENTS FROM THE
1357 * BEGINNING OF THE BYTE TO EACH BIT IN THE WORD OF SWITCHES.
1358 *
1359 *****
1360 BS0 EQU 0
1361 BS1 EQU 1
1362 BS2 EQU 2
1363 BS3 EQU 3
1364 BS4 EQU 4
1365 BS5 EQU 5
1366 BS6 EQU 6
1367 BS7 EQU 7
1368 BS8 EQU 8
1369 BS9 EQU 9
1370 BS10 EQU 10
1371 BS11 EQU 11
1372 BS12 EQU 12
1373 BS13 EQU 13
1374 BS14 EQU 14
1375 BS15 EQU 15
1376 COPY T7808
1378 T7808 TUII \$ERR\$
1379 *****06FEB76**
1380+*
1381+* TEST UNIT
1382+*
1383+* 4962 CYCLE STEAL STATUS 5/11/77
1384+*
1385+* PURPOSE
1386+*
1387+*
1388+* CALLING SEQUENCE
1389+*
1390+* ROUTINE WILL FORCE A CYCLE STEAL STATUS OP.
1391+*
1392+* PPOGPAM PASSES STATUS OF ALL LINES IN FOLLOWING FORMAT:
1393+* . TURESUL BIT 0-15-----NOT USED
1394+* . TURESUL BIT 16-31 ----- CYCLE STEAL STATUS FOP FAILING OP
1395+* . TURESUL BIT 32-47 ----- CC - 32-39 OTO CC,40-47 INT CC
1396+* . TURESUL BIT 48-63 ----- IBS
1397+* . TURESUL BIT 64-79 ----- OPTION WORD 3 (ERROR INDICATORS)
1398+*
1399+*
1400+* RETURN CONTROL
1401+*
1402+* B TURTN* RETURN TO MDI SUPERVISOR
1403+*
1404+*****
1405+T7808 MVW R7,TURTN SAVE RETURN ADDRESS
1406+ MVWI X'7808', \$TUID SAVE TU ID FOR DISPLAY
1407+ MVA OPTN1,R4 SET UP POINTER ADRS IN R4
1408+ BAL \$CONC,R6 CLEAR DEV DEP STG AND CONNECT I/O BL
1409+ DC A(\$EPF\$) ERROR ADRS FOP INVALID PREP
1410+*
1411+ MVWZ TURESUL,R2 CLEAR RESULTS WORD
1412+ MVWZ TURESUL+2,P2 CLEAR RESULTS WORD 2
1413+ MVWZ TURESUL+4,P2 CLEAR RESULTS WORD 3
1414+ MVWZ TURESUL+6,P2 CLEAR RESULTS WORD 4
1415+ MVWZ TURESUL+8,P2 CLEAR RESULTS WORD 5
1416+ MVA TURESUL,R2 ADDRESS OF RESULTS WORD
1417+ MVA IOBLK,R7 RESET DEVICE
1418+ SVC PESET *
1419+ BAL XTCCS,R6 CYCLE STEAL STATUS TO CAUSE INTEP
1420+ DC A(\$EPF\$) ERPOP
1421+ TBTR (R4,EP) INTERRUPT ERROR?
1422+ BON \$EPF\$ YES
1423+ MVW CSTL2,TURESUL+2 CYCLE STEAL STATUS FOP FAILING OP
1424+ MVW STOIN,TURESUL+4 CONDITION CODES
1425+ MVW \$ISB,TURESUL+6 ISB
1426+ MVW OPTN3,TURESUL+8 OPTION WORD 3 (CONDITION CODES)
1427+ TXIT
1428+ B \$CONC RETURN TO MDI CONTROLLEP
1429+*****
1430+*
1431+*
1432+* COPY T78DCB
1433+** (T78DCB)
1434+*****12/176*****
1435+*
1436+*
1437+* DCB TABLES AND DC'S
1438+*
1439+*****
1440+*
1441+***** DIAGNOSTIC DCB *****
1442+*
1443+ DGDCB DC X'2008' DIAGNOSTIC DCB
1444+ DC X'0000' NOT USED
1445+ DC A(*-*) 0-7 = PHYSICAL SECTOP # MINUS ONE
1446+ DC X'0000' NOT USED
1447+ DC X'0000' NOT USED
1448+ DC A(*-*) CHAINING ADDRESS
1449+ DC X'0100' BYTE COUNT
1450+ DC A(*-*) DATA ADDRESS
1451+*
1452+*
1453+***** RECALIBRATE DCB *****
1454+*
1455+ CLDCB DC X'0007' RECALIBPATE DCB
1456+ DC 7A(*-*)
1457+*

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LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
00349C 0002 1458 ***** WRITE SECTOR ID **
00349E 0000 1459 *
0034A0 0000 1460 WSDCB DC X'0002' WRITE SECTOR ID CONTROL WORD
0034A2 0000 1461 DC X'0000' NOT USED
0034A4 0000 1462 DC A(*-*) 0-7 = PHYSICAL SECTOR # MINUS ONE
0034A6 0000 1463 DC A(*-*) NOT USED
0034A8 0006 1464 DC A(*-*) NOT USED
0034AA 3562 1465 DC A(*-*) CHAIN ADDRESS
1466 DC X'0006' BYTE COUNT
1467 DC A(WRSID) ADDR OF SECTOR ID DATA
1468 ***** READ SECTOR ID DCB *****
1469 *
0034AC 200A 1470 RSDCB DC X'200A' READ SECTOR ID
0034AE 0000 1471 DC X'0000' NOT USED
0034B0 0000 1472 DC X'0000' 0-7 = PHYSICAL SECTOR # MINUS ONE
0034B2 0000 1473 DC X'0000' NOT USED
0034B4 0000 1474 DC X'0000' NOT USED
0034B6 0000 1475 DC X'0000' CHAIN ADDRESS
0034B8 0006 1476 DC X'0006' BYTE COUNT FOR READ SECTOR ID
0034BA 33E2 1477 DC A(SCTID) SECTOR ID DATA ADDRESS
1478 *
1479 *
1480 ***** READ SECTOR ID IMMEDIATE DCB *****
1481 *
0034BC 200E 1482 RIDCB DC X'200E' READ SECTOR ID
0034BE 0000 1483 DC X'0000' NOT USED
0034C0 0000 1484 DC X'0000' NOT USED
0034C2 0000 1485 DC X'0000' NOT USED
0034C4 0000 1486 DC X'0000' NOT USED
0034C6 0006 1487 DC X'0006' CHAIN ADDRESS
0034CA 33E2 1488 DC A(SCTID) BYTE COUNT FOR READ SECTOR ID
1489 DC A(SCTID) SECTOR ID DATA ADDRESS
1490 *
1491 *
1492 ***** SEEK DCB *****
1493 *
0034CC 0005 1494 SKDCB DC X'0005' SEEK DCB
0034CE 0000 1495 DC X'0000' BIT 0-3=0; BIT4=DIRECTION; 5-15=DIFPER
0034D0 0000 1496 DC F'0'
0034D2 0000 1497 DC F'0'
0034D4 0000 1498 DC X'0000' 0-7 = HEAD; 8-15 NOT USED
0034D6 0000 1499 DC A(*-*) CHAIN ADDRESS
0034D8 0000 1500 DC F'0' NOT USED
0034DA 0000 1501 DC F'0' NOT USED
1502 *
1503 ***** CYCLE STEAL STATUS DCB *****
1504 *
0034DC 2000 1505 CSDCB DC X'2000' CONTROL WORD
0034DE 0000 1506 DC F'0' NOT USED
0034E0 0000 1507 DC F'0' NOT USED
0034E2 0000 1508 DC F'0' NOT USED
0034E4 0000 1509 DC F'0' NOT USED
0034E6 0000 1510 DC F'0' NOT USED
0034E8 0000 1511 DC X'0008' # WORDS OF STATS
0034EA 33FA 1512 DC A(CSEUF) ADDRESS OF CYCLE STEAL STATUS DATA
1513 *
1514 ***** WRITE DCB *****
1515 *
0034EC 0001 1516 WRDCB DC X'0001' WRITE CONTROL WORD
0034EE 0000 1517 DC F'0' NOT USED
0034F0 0000 1518 DC X'0000' 0-7=0; 8-15 = FLAG BYTE
0034F2 0000 1519 DC X'0000' SEARCH ARGUMENT CYLINDER
0034F4 0000 1520 DC X'0000' SEARCH ARGUMENT HEAD-SECTOR
0034F6 0000 1521 DC A(*-*) CHAIN ADDRESS
0034F8 0000 1522 DC F'0' BYTE COUNT
0034FA 0000 1523 DC A(*-*) WRITE DATA ADDRESS
1524 *
1525 ***** VERIFY DCB *****
1526 *
0034FC 200C 1527 VRDCB DC X'200C' CONTROL WORD
0034FE 0000 1528 DC F'0' NOT USED
003500 0000 1529 DC X'0000' 0-7=0; 8-15 = FLAG BYTE
003502 0000 1530 DC X'0000' CYLINDER
003504 0000 1531 DC X'0000' HEAD - SECTOR
003506 0000 1532 DC A(*-*) CHAIN ADDRESS
003508 0000 1533 DC F'0' BYTE COUNT
00350A 0000 1534 DC A(*-*) VERIFY DATA ADDRESS
1535 *
1536 ***** READ DCB *****
1537 *
00350C 2009 1538 RDDCB DC X'2009' READ DCB CONTROL WORD
00350E 0000 1539 DC F'0' NOT USED
003510 0000 1540 DC X'0000' 0-7=0; 8-15 = FLAG BYTE
003512 0000 1541 DC X'0000' SEARCH ARGUMENT CYLINDER
003514 0101 1542 DC X'0101' SEARCH ARGUMENT H-R
003516 0000 1543 DC A(*-*) CHAIN ADDRESS
003518 0000 1544 DC F'0' BYTE COUNT
00351A 0000 1545 DC A(*-*) READ DATA ADDRESS
1546 *
1547 *
1548 *
1549 ***** WRITE SECTOR ID SKEWED *****
1550 *
00351C 0003 1549 WKDCB DC X'0003' CONTROL WORD
00351E 0000 1550 DC X'0000' NOT USED
003520 0000 1551 DC A(*-*) 0-7 = PHYSICAL SECTOR # MINUS ONE
003522 0000 1552 DC A(*-*) NOT USED
003524 0000 1553 DC A(*-*) NOT USED
003526 0000 1554 DC A(*-*) CHAIN ADDRESS
003528 0006 1555 DC X'0006' BYTE COUNT
00352A 3562 1556 DC A(WRSID) ADDR OF SECTOR ID DATA
1557 *
1558 *
1559 ***** READ SECTOR ID SKEWED *****
1560 *
00352C 200B 1560 RKDCB DC X'200B' CONTROL WORD
00352E 0000 1561 DC X'0000' NOT USED
003530 0000 1562 DC X'0000' 0-7 = PHYSICAL SECTOR # MINUS ONE
003532 0000 1563 DC X'0000' NOT USED
003534 0000 1564 DC X'0000' NOT USED
003536 0000 1565 DC A(*-*) CHAIN ADDRESS
003538 0006 1566 DC X'0006' BYTE COUNT FOR READ SECTOR ID
00353A 33E2 1567 DC A(SCTID) SECTOR ID DATA ADDRESS
1568 *
1569 *
1570 ***** CONSTANTS AND DEFINED STORAGE LOCATIONS *****
1571 ZERO DC X'0000' CONSTANT ZERO
ONE DC X'0001' CONSTANT ONE

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LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
003540 00000000 1572 TIMEOUT DC 2A(*-*) TIMEOUT COUNTER
003544 0000 1573 TONE DC X'0000' CONSTANT FOR ADD DOUBLE
003546 0001 1574 DC X'0001' *
003548 0500 1575 COUNT DC F'1280' BYTE COUNT (1280)
00354A 0000 1576 DIFP DC A(*-*) SEEK DIFFERENCE
00354C 0000 1577 XYX DC A(*-*) WORK WORD INT TO ZERO
00354E 0000 1578 BCNT DC X'0000' BYTE COUNT
003550 0000 1579 JOE DC A(*-*) WRITE PARAMETER POINTER
003552 0000 1580 JOE1 DC A(*-*) SAVE LOC FOR PARM LIST ADDRESS
003554 DEB6 1581 WDATA DC X'DEB6' WRITE DATA
003556 06B8 1582 DC X'6B8' *
003558 0000 1583 TABLE DC A(*-*) ADDR OF WRT PAR LIST FOR FORMAT RTNS
00355A 0000 1584 LGSEC DC X'0000' LOGICAL SECTOR #
00355C 0000 1585 PHYS DC X'0000' CONVERTED PHYSICAL SEC #
00355E 1D00 1586 CB29 DC X'1D00' CONSTANT BYTE 29
003560 3B00 1587 FIVE9 DC X'3B00' CONSTANT BYTE 59
003562 0000 1588 WRSID DC X'0000' FLAG, CYLINDER (WRT SECTOR ID DATA)
003564 0000 1589 DC X'0000' CYLINDER HEAD
003566 0000 1590 DC X'0000' LOG SECTOR NOT USED
003568 00FF 1591 CDAT DC X'00FF' INVALID DATA CONSTANT
00356A FF34 1592 WSIDT DC X'FF34' WRITE SECTOR ID TEST DATA
00356C 5678 1593 DC X'5678' *
00356E 9A00 1594 DC X'9A00' *
003570 0000 1595 SCTST DC X'0000' READ SECTOR ID TEST DATA BUFFER
003572 0000 1596 DC X'0000' *
003574 0000 1597 DC X'0000' *
003576 0000 1598 CTR01 DC X'0000' COUNTER
003578 0000 1599 CTR02 DC X'0000' COUNTER
00357A 0000 1600 CTR03 DC X'0000' COUNTER
00357C 0000 1601 CTR04 DC X'0000' COUNTER
00357E 0000 1602 CTR05 DC X'0000' COUNTER
003580 0000 1603 CTR06 DC X'0000' COUNTER
003582 0000 1604 SAVR3 DC X'0000' SAVE AREA
003584 0000 1605 SAVR5 DC X'0000' SAVE AREA
003586 0000 1606 WR2 DC X'0000' *
003588 0000 1607 SVSEK DC X'0000' *
00358A 0000 1608 LCT DC X'0000' *
00358C 0000 1609 T56AA DC X'0000' *
00358E 0000 1610 T56BB DC X'0000' *
003590 0000 1611 T56CC DC X'0000' *
003592 0000 1612 T56DD DC X'0000' *
003594 0000 1613 T56EE DC X'0000' *
003596 0000 1614 T56FF DC X'0000' *
003598 0000 1615 T56GG DC X'0000' *
00359A 0000 1616 T86AA DC X'0000' *
00359C 0000 1617 T86BB DC X'0000' *
00359E 0000 1618 T86CC DC X'0000' *
0035A0 0000 1619 T86DD DC X'0000' *
0035A2 0000 1620 T86EE DC X'0000' *
0035A4 0000 1621 T86FF DC X'0000' *
0035A6 0000 1622 T86GG DC X'0000' *
0035A8 0000 1623 T41D DC X'0000' *
0035AA 0000 1624 T41L DC X'0000' *
0035AC 0000 1625 WFLCT DC X'0000' *
0035AE 0000 1626 CYLCT DC X'0000' *
0035B0 0000 1627 PAS1 DC A(*-*)
0035B2 0000 1628 HEAD0 DC A(*-*)
0035B4 0000 1629 HEAD1 DC A(*-*)
0035B6 0000 1630 GDSE0 DC A(*-*)
0035B8 0000 1631 GDSE1 DC A(*-*)
0035BA 0000 1632 ER00 DC A(*-*)
0035BC 0000 1633 ER01 DC A(*-*)
0035BE 0000 1634 HD0SV DC A(*-*)
0035C0 0000 1635 HD1SV DC A(*-*)
0035C2 0000 1636 EP0SV DC A(*-*)
0035C4 0000 1637 EP1SV DC A(*-*)
0035C6 0000 1638 PRTF DC A(*-*)
0035C8 0000 1639 CECYL DC A(*-*)
0035CA 0000 1640 STATS DC A(*-*)
1641 *
1642 *
1643 ** COPY T78DPCIO
1644 ** (T78DPCIO)
1645 *
1646 * EXECUTE DPC INPUT/OUTPUT COMMANDS
1647 * THIS ROUTINE HAS THE FOLLOWING ENTRIES:
1648 *
1649 * 1 BAL CEOP1,R6 CE DIAGNOSTIC OP1(TURN ON DIAG MODE)
1650 *
1651 * 2 BAL CEOP2,R6 WRITE DIAG CLOCK STEP DATA
1652 *
1653 * 3 BAL SENS0,R6 CE READ SENSE WORD ZERO
1654 *
1655 * 4 BAL SENS1,R6 CE READ SENSE WORD ONE
1656 *
1657 * 5 BAL WRAP,R6 READ DIAGNOSTIC WRAP
1658 *
1659 * BXS (R6,2) RETUPN
1660 *
1661 *****
1662 *
1663 * CE DIAGNOSTIC OP2 DATA WORD (CLOCK STEP)
1664 *
1665 * BIT 00 - SET READY
1666 * BIT 01 - RESET READY
1667 * BIT 02 - SET WRITE CLOCK
1668 * BIT 03 - SET READ CLOCK
1669 * BIT 04 - INDEX PULSE
1670 * BIT 05 - SECTOR PULSE
1671 * BIT 06 - STANDARD READ DATA
1672 * BIT 07 - SPEED PULSE
1673 * BIT 08 - BEHIND HOME
1674 * BIT 09 - SET SEEK COMPLETE
1675 * BIT 10 - RESET SEEK COMPLETE
1676 * BIT 11 - PLO OUT OF SYNC
1677 * BIT 12 - RST RD/WRT CLOCK
1678 *
1679 * BIT 13 -
1680 * BIT 14 -
1681 * BIT 15 - RESET DIAGNOSTIC MODE
1682 *
1683 *
1684 *
1685 WRAP MVW R6,LISTIO SAVE ADDRESS OF LAST IO
1686 MVB DEVADD,IDCRPAP+1 LOAD DEVICE ADDRESS IN IDCBC

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LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
0035D6	680C 364E	1687	IO	IDCBRAP
0035DA	6F05 3630	1688	BNCC	7,CCERR
0035DE	5601	1689	BXS	(R6,2)
0035E0	6E0D 33E0	1690	CEOP1	MVW R6,LSTIO
0035E4	8028 19D0	1691	MVB	DEVADD,IDCBCE1+1
0035E8	680C 364E	1692	IO	IDCBCE1
0035F2	6F05 3630	1693	BNCC	7,CCERR
0035F4	6E0D 33E0	1694	CEOP2	MVW R6,LSTIO
0035F8	8028 19D0	1695	MVB	DEVADD,IDCBCE2+1
0035FA	680C 364E	1696	IO	IDCBCE2
003602	6F05 3630	1697	BNCC	7,CCERR
003606	5601	1698	BXS	(R6,2)
003608	6E0D 33E0	1699	SENS1	MVW R6,LSTIO
00360C	8028 19D0	1700	MVB	DEVADD,IDCB1+1
003612	680C 364E	1701	IO	IDCB1
003616	6F05 3630	1702	BNCC	7,CCERR
00361A	5601	1703	BXS	(R6,2)
00361C	6E0D 33E0	1704	SENS0	MVW R6,LSTIO
003620	8028 19D0	1705	MVB	DEVADD,IDCB0+1
003624	680C 364E	1706	IO	IDCB0
003628	6F05 3630	1707	BNCC	7,CCERR
00362E	5601	1708	BXS	(R6,2)
003630	706E	1709	CCERR	DC X'1706E'
003632	336A	1710	SEL	R3,R3
003634	C328	1711	MVB	R3,R3
003638	68D2 0000	1712	B	(R6)*
00363C	6F05	1713	IOEST	DC X'16F05'
00363E	2205	1714	IDCB0	DC X'2205'
003640	0000	1715	RDATA	DC A(*-*)
003642	2105	1716	IDCB1	DC X'2105'
003644	0000	1717	RDATA	DC A(*-*)
003646	4005	1718	IDCBCE1	DC X'4005'
003648	0000	1719	CEBAC	DC A(*-*)
00364A	4105	1720	CEBAC2	DC X'4105'
00364C	0000	1721	CEBAC3	DC A(*-*)
00364E	0000	1722	CEBAC4	DC A(*-*)
003650	2F05	1723	IDCBRRAP	DC X'2F05'
003652	0000	1724	RAPDAT	DC A(*-*)
000232		1725	CPUID	EQU X'0232'
		1726		
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		1801		

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
1802	*		B	(TT304+2)
1803	*			
1804	*			
1805	*			
003676	6E0D 36E6	1806	CONVT	MVW R6,TT304+2
00367A	802B 353C 355B	1807	CB	ZERO0,LGSEC+1
003680	100D	1808	JE	TT303
003682	802B 355E 355E	1809	JGE	LGSEC+1,CB29
00368A	4024 0002	1810	J	2,R0
003692	E821 355E	1811	MVWI	2,R0
003696	7802 003C	1812	MB	LGSEC+1,R0
003698	C028 355D	1813	SWI	60,R0
00369C	500C	1814	MVB	R0,PHYS+1
0036A2	8028 3560 355D	1815	J	TT304
0036A4	5008	1816	TT303	MVB FIVE9,PHYS+1
0036A8	4024 0002	1817	J	TT304
0036B0	E821 355E	1818	RTT01	MVWI 2,R0
0036B2	7802 0001	1819	MB	LGSEC+1,R0
0036B4	C028 355D	1820	SWI	1,R0
0036B8	6802 0000	1821	MVB	R0,PHYS+1
1822	*			
1823	*			
1824	*			
1825	*			
1826	*			
1827	*			
1828	*			
1829	*			
1830	*			
1831	*			
1832	*			
1833	*			
1834	*			
1835	*			
1836	*			
1837	*			
1838	*			
1839	*			
1840	*			
1841	*			
1842	*			
003688	4724 0005	1843	LWSID	MVWI 5,R7
00368C	4324 35E2	1844	MVA	SCTID+1,R3
00368E	4524 3562	1845	MVA	WRSID,R6
003690	2B44	1846	MVN	(R3),(R5)
003692	5600	1847	BXS	(R6)
1848	*			
1849	*			
1850	*			
1851	*			
1852	*			
1853	*			
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1897	*			
1898	*			
1899	*			
1900	*			
0036D8	4020 389A 34AC	1901	SRDID	MVA RSDCB,IODCB
0036E0	5064	1902	MVBI	X'FF',R3
0036E2		1903	MVA	SCTID,R5
0036E4		1904	MVWI	6,R7
0036E6		1905	FFN	R3,(R5)
0036E8		1906	MVA	SCTID,RSDCB+14
0036EA		1907	J	XIO
0036EC		1908	*	
0036ED		1909	SRD	MVBI X'FF',R3
0036EE		1910	MVW	RDDCB+14,R5
0036EF		1911	MVWI	X'0100',R7
0036F0		1912	FFN	R3,(R5)
0036F2		1913	SRD\$	MVA RSDCB,IODCB
0036F4		1914	J	XIO
0036F6		1915	*	
0036F8		1916	SRDVI	MVA VRDCB,IODCB
0036FA				
0036FC				
0036FE				
003704				
003706				

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976	LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
17802 ---	4962	P/N=1635142	EC=755285	PAGE 09	17802 ---	4962	P/N=1635142	EC=755285	PAGE 09A
00370C	5045	1917	J	XIO	0037D6	4CA1	2032**		
00370E	4020 389A 34EC	1918	*		0037D8	4CA3	2033**	TBTR (R4, ER)	RESET ANY ERROP BEFORE I/O COMMAND
003714	5041	1919	\$WRT	MVA WRDCB, IODCB	0037DA	4724 389E	2034**	XIO2 TBTF (R4, IN)	CLEAR INTERRUPT RECEIVED CNTL BIT
003716	4020 389A 352C	1920	*		0037DE	4CA6	2035**	MVA IOBLE, P7	SET UP CONTROL BLOCK FOR SUPVP
00371C	0BFF	1921	\$RKEW	MVA RKDCB, IODCB	0037E0	4C62	2036**	TBTR (R4, IE)	RESET LEVEL ERROR INDICATOR
00371E	4524 33E2	1922	*		0037E2	600A	2037**	TBTS (R4, XI)	SET EXPECTED INTR CONTROL BIT
003722	4724 000E	1923	MVBI	X'FF', R3	0037E4	4CA7	2038**	SVC START	CALL SUPVP FOR I/O COMMAND
003726	2BAC	1924	MVA	SCTID, R5	0037E6	6AC0 0002	2040**		
003728	4020 353A 33E2	1925	MVNI	6, R7			2041**	TBTF (R4, HT)	IS AN INTR EXPECTED
00372E	5034	1926	FFN	R3, (R5)			2042**	BN (R6, 2)	* NO, RETURN TO USER
003730	4020 389A 351C	1927	MVA	SCTID, RKDCB+14			2043**		THE INTR SHOULD OCCUR WHILE SPINNING IN THE NEXT SECTION
003736	4020 352A 356A	1928	J	XIO			2044**		
00373C	502D	1929	*		0037EA	0D00	2045**	MVBI X'00', P5	SET UP WORK REG FOR 'LOST INTR'
00373E	4020 389A 352C	1930	\$WKST	MVA WKDCB, IODCB	0037EC	4CA3	2046**	XIO8 TBTF (R4, IN)	HAS INTERRUPT BEEN RECEIVED
00374A	4020 353A 3570	1931	MVA	WSIDT, WKDCB+14	0037EE	1238	2047**	JON XIOCK	* YES, CHECK IF ALL WAS SATISFACTORY
00374C	4020 389A 34AC	1932	J	XIO	0037F0	6002	2048**	SVC IDLE	ALLOW ANOTHER PROGRAM A CHANCE TO RUN
003752	0BFF	1933	*		0037F2	7DA1 0001	2049**		SUPVP WILL RETURN HERE
003754	4524 3570	1934	\$RWST	MVA RKDCB, IODCB	0037F6	18FA	2050**	AWI 1, P5	ADVANCE TIME OUT COUNT
003758	4724 000E	1935	MVA	SCTST, RKDCB+14	0037F8	4C61	2051**	JNZ XIO8	ECH IF TIME OUT NOT REACHED
00375C	2BAC	1936	J	XIO	0037FA	68D2 0000	2052**	TBTS (R4, ER)	SET ON ERROR CONTROL BIT
00375E	4020 34BA 3570	1937	\$RIDS	MVA RSDCB, IODCB			2053**	B (R6, 2)	EEP 'NO INTERRUPT'
003764	5019	1938	*				2054**		*****03FEB76**
003766	4020 389A 351C	1939	MVBI	X'FF', R3			2055**		
00376C	4020 352A 356E	1940	MVA	SCTST, R5			2056**		
003772	5012	1941	MVNI	6, R7			2057**		SUBROUTINE
003774	4020 389A 349C	1942	FFN	R3, (R5)			2058**		
00377A	4020 34AA 3562	1943	MVA	SCTST, RSDCB+14			2059**		I/O EXECUTE ERROR HANDLING ROUTINE
003780	500B	1944	J	XIO			2060**		
003782	4020 389A 349C	1945	*				2061**		PURPOSE
003788	4020 34AA 356A	1946	\$NKEW	MVA WKDCB, IODCB			2062**		
00378E	5004	1947	MVA	WRSID, WKDCB+14			2063**		THIS ROUTINE WILL COLLECT INFORMATION TO HELP DETERMINE THE
003790	4020 389A 347C	1948	J	XIO			2064**		PROBLEM THAT WAS FOUND WHEN THE I/O COMMAND WAS ISSUED BY THE
003796	5000	1949	*				2065**		SUPERVISOR AND IT WAS NOT ACCEPTED.
		1950	\$WSEC	MVA WSDCB, IODCB			2066**		CALLING SEQUENCE
		1951	MVA	WFSID, WSDCB+14			2067**		SUPVP WILL ENTER WHEN AN ERROR OCCURS ON AN I/O COMMAND
		1952	J	XIO			2068**		
		1953	\$WSTS	MVA WSDCB, IODCB			2069**		RETURN CONTROL
		1954	MVA	WSIDT, WSDCB+14			2070**		
		1955	J	XIO			2071**		B (R6) * RETURN TO USERS ERROR HANDLER
		1956	*				2072**		
		1957	\$DIAG	MVA DGDCB, IODCB			2073**		
		1958	J	XIO			2074**		
		1959	XEQIT				2075**		
		1960	*****	*****29JUL76**			2076**		
		1961					2077**		
		1962	SUB-ROUTINE				2078**		
		1963					2079**		
		1964	EXECUTE INPUT AND OUTPUT COMMANDS				2080**		
		1965					2081**		
		1966	PURPOSE				2082**		
		1967					2083**		
		1968	TO EXECUTE ALL I/O COMMANDS FROM A COMMON PLACE.				2084**		
		1969	THIS SUBROUTINE WILL DO THE FOLLOWING FUNCTIONS:				2085**		
		1970					2086**		
		1971	1. SAVE THE ADDRESS THAT POINTS TO THE INSTRUCTION THAT STARTED				2087**		
		1972	THE I/O COMMAND.				2088**		
		1973	2. SAVE THE DCB BLOCK USED UNLESS IT IS A START CYCLE STATUS				2089**		
		1974	ISSUED BY THIS SUBROUTINE.				2090**		
		1975	3. CLEAR OUT THE CYCLE STEAL STATUS STORAGE UNLESS THE				2091**		
		1976	START CYCLE STATUS WAS ISSUED BY THIS SUBROUTINE.				2092**		
		1977	4. RESETS THE INTERRUPT INDICATOR AND CHECKS FOR ANY INTERRUPT				2093**		
		1978	SINCE THE LAST EXPECTED INTERRUPT. IF AN INTERRUPT IS FOUND,				2094**		
		1979	MYSTERY INTERRUPT (MI) CONTROL BIT IS SET.				2095**		
		1980	5. MOVES THE ADDRESS OF THE I/O CONTROL BLOCK IN R7, SET THE				2096**		
		1981	EXPECTED INTERRUPT CONTROL BIT AND ISSUE THE 'SVC START'				2097**		
		1982	6. WHEN THE SUPVR RETURNS AFTER ISSUING THE I/O COMMAND, TIMING				2098**		
		1983	STARTS TO DETERMINE A LOST INTERRUPT.				2099**		
		1984	7. EXCEPT THE INTERRUPT AND GATHER INFORMATION TO DETERMINE IF IT				2100**		
		1985	WAS AN ERROR OR OKAY AND EXIT OFF THE INTERRUPT LEVEL.				2101**		
		1986	8. CHECK IF THERE WAS A WRONG INTERRUPT LEVEL.				2102**		
		1987	9. CHECK IF AN ERROR WAS EXPECTED AND IF THERE WAS RETURN.				2103**		
		1988	10. CHECK IF THERE WAS AN ERROR CONDITION, IF NOT RETURN.				2104**		
		1989	11. CHECK TO SEE IF THE EXERCISER IS TO BE TERMINATED.				2105**		
		1990	12. CHECK IF A CYCLE STEAL OPERATION WAS IN PROGRESS THAT WAS				2106**		
		1991	ISSUED BY THIS SUBROUTINE.				2107**		
		1992	13. CHECK THE ISB BITS THAT ARE ON. IF BIT 0 IS ON, ISSUE A				2108**		
		1993	CYCLE STEAL STATUS COMMAND. CHECK FOR ANY OTHER BIT BEING ON,				2109**		
		1994	COUNT IT AND SET UP THE PROPER ERROR MESSAGE TO BE PRINTED.				2110**		
		1995					2111**		
		1996	CALLING SEQUENCE				2112**		
		1997					2113**		
		1998	THIS ROUTINE HAS THE FOLLOWING ENTRIES:				2114**		
		1999					2115**		
		2000	--> BAL XIO OR XEQ ANY CYCLE STEAL COMMAND, MOD=0				2116**		
		2001	--> BAL XIO1 MOD PARM PRELOADED IN 'IOMOD'				2117**		
		2002	--> BAL XIOCS, P6 OR XEQ START CYCLE STEAL STATUS, MOD=F				2118**		
		2003	--> BAL XIOCS-4, P6 AUTO CS STATUS (FOLLOWING OTHER XIO				2119**		
		2004	--> BAL XIOCS-4, P6 AND DOES NOT POST INTERRUPT STATUS)				2120**		
		2005					2121**		
		2006	RETURN CONTROL				2122**		
		2007					2123**		
		2008	BXS (R6, 2) RETURN TO USER NO ERROR				2124**		
		2009	OR (R6) RETURN AND RETRY ON ERROR				2125**		
		2010	*****				2126**		
		2011	*****				2127**		
		2012	XIO MVWZ IOMOD, R3 SET MOF OF 0 FOR CYCLE STEAL OP				2128**		
		2013	J XIO1 CS I/O'S ARE NOT RETRIED				2129**		
		2014					2130**		
		2015	TBTF (R4, CE) RESET CS STATUS INTER ERROR INDICAT.				2131**		
		2016	TBTS (R4, CS) SET 'CYCLE STEAL STATUS' IN PROGRESS				2132**		
		2017	XIOCS MVA CSDCB, IODCB SET UP CONTROL BLOCK FOR SVC CALL				2133**		
		2018	MVNI X'000F', IOMOD SET CYCLE STEAL MODIFIER				2134**		
		2019	TBT (R4, CS) IS, CS IN PROGRESS, ERROR CONDITION				2135**		
		2020	JON XIO2 * YES, BYPASS SAVING I/O ADRES				2136**		
		2021	XIO1 MVW R6, LSTIO SAVE IAB FOR RETRY IF REQUESTED				2137**		
		2022	MVA DCBUP, P9 SET UP I/O ADRES TO MOVE DCB TABLE				2138**		
		2023	MVW IODCB, P5 * AND THE FROM ADRES ALONG WITH				2139**		
		2024	MVBI 16, R7 * THE NUMBER OF MOVES				2140**		
		2025	MVFN (R5) (R3) MOVE 1 STATUS WORD AND ADJUST				2141**		
		2026	MVBT 255, R3 CLEAR CYCLE STATUS BUFFER				2142**		
		2027	MVA CSBUF, R5 * TO ALL ONES *				2143**		
		2028	MVBI 16, R7 *				2144**		
		2029	FFN R3, (R5) *				2145**		
		2030	MVNI X'0708', \$IOIN OVERPLAY OLD CONDITION CODES				2146**		
		2031	MVWZ \$ISB, R3 ZERO OUT OLD ISB VALUE				2147**		
		2032					2148**		
		2033							
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LOCTR OBJECT TEXT      STMT SOURCE STATEMENT      COPYRIGHT IBM CORP 1976
2149** CALLING SEQUENCE
2150** SUPERVISOR WILL ENTER HERE IF INTR CC IS AS REQUESTED
2151** THE ERROR INTERRUPT HANDLER WILL BRANCH TO THIS ROUTINE
2152** AFTER THE SPECIAL PART HAS BEEN COMPLETED AND THE
2153** COMMON SECTION IS HANDLED HERE.
2154**
2155** RETURN CONTROL
2156**
2157** SVC EXIT RETURN TO USER VIA SUPVR
2158**
2159**
2160**
2161** *****
2162+INTOK DC X'706E' COPY STATUS ANY LEVEL INTO R3
2163+ SRL 13,R3 POSITION INDICATORS IN R3
2164+ MVA OPTN1,R4 SET UP BASE ADRES
2165+INTR1 TBT (R4,IN) SET INTERRUPT RECEIVED
2166+ JBT (R4,CS) IS 'CS IN PROGRESS' ON
2167+ JOF INT2 * YES, BCH AROUND UPDATE
2168+ MVB R3,$I0IN+1 SAVE INTERRUPTING CC CODE
2169+ MVR R7,$ISB SAVE INTR STATUS AND DEV ADRS
2170+INTR2 EQU *
2171+ CPCL R5 CURRENT LEVEL COPIED BY DCP
2172+ SLL 4,R5 POSITION INTR LEVEL AND PUT
2173+ ABE 1,R5 * IN 'I' BIT
2174+ CW $INTL,R5 IS THIS THE CORRECT INTR LEVEL
2175+ JE INTR3 * YES, GO EXIT THIS LEVEL
2176+ TBT (R4,SLE) SET INTR LEVEL ERROR CONTROL BIT
2177+ TBT (R4,ER) SET ERROR ON I/O COMMAND CNTL BIT
2178+INTR3 JOF INT3 * YES, INTERRUPT EXPECTED
2179+ TBT (R4,MI) * NO, SET MYSTERY INTR CONTROL BIT
2180+ CBI 4,R3 ATTENTION INTERRUPT?
2181+ JE INTRX YES
2182+ TBT (R4,NG) ERROR, UNEXPECTED INTERRUPT
2183+ SVC EXIT EXIT THIS LEVEL VIA SUPVR TO PGM
2184+INTRX SVC EXIT
2185** *****
2186** *****03FEB 76**
2187**
2188** THIS IS THE CONTINUATION OF EXECUTE I/O AFTER THE INTERRUPT
2189** HAS BEEN SERVICED. THE EXERCISER FINDS AN INTERRUPT HAS BEEN
2190** RECEIVED AND BRANCHES HERE TO CHECK FOR ANY ERROR CONDITIONS.
2191**
2192**
2193+XIOCK TBT (R4,YE) WAS AN ERROR EXPECTED
2194+ BN (R6,2) * YES, EXIT THIS ROUTINE
2195+ TBT (R4,CS) WAS AUTO CS IN PROGRESS
2196+ JOFF XIOCV * NO, CONTINUE CHECKING
2197+ TBT (R4,CE) IS CS IN AN ERR CONDITION
2198+ JOFF XIOCO * NO, BCH
2199+ B (R6)* CS ERROR
2200+XIOCO TBT (R4,CSA) TURN ON CS STATS AVAIL FLAG
2201+ BXS (R6,2) GO TO USER
2202+XIOCV TBT (R4,ER) WAS ERROR INTR CONTROL BIT ON
2203+ JOFF XIOCX * NO, EXIT THIS ROUTINE
2204**
2205+ MVB $I0IN+1,R5 GET LAST INTR CC CODE
2206+ CBI 2,R5 IS THIS CC=2
2207+ BNE (R6)* * NO, BCH TO ERROR HANDLER
2208+XIOCO MVB $ISB,R5 GET LAST ISB DATA BYTE AND IF CS
2209+ BN XIOCS-4 * AVAILABLE, GO AND GPT IT
2210+ B (R6)* ERROR
2211+XIOCX MVWZ OPTN3,R3 CLEAR OUT OPTION 3 CNTL BITS
2212+ BXS (R6,2) RETURN TO USER VIA REG 6
2213**
2214** I/O PARAMETER LIST
2215+IOBLK DC A(DEVADD) ADRS OF DEVICE ADRS
2216+ DC A(INTOK) ERROR ROUTINE ADRS
2217+ A(*-*) DCB ADRS OR LEVEL & INTR
2218+I0DCB DC A(*-*) MODIFIER
2219+I0MOD DC A(*-*)
2220+ DC A(*-*) ADRS OF LAST SVC CALL
2221+I0RSP DC A(*-*) SECOND WORD OF LAST IDCB
2222**
2223** INTERRUPT CONTROL BLOCK FOR I/O COMMANDS
2224**
2225+INTBL DC A(DEVADD) ADRS OF DEVICE ADRS
2226+ DC A(INTOK) INTERRUPT OK RETURN ADRS
2227+ A(*-*) INTERRUPT ERROR ADRS
2228+INTCC DC X'0003' INTERRUPT CODE EXPECTED
2229** *****
2230** *****11MAY 76**
2231**
2232** SUBROUTINE
2233**
2234** CONNECT INTERRUPT CONTROL BLOCK & PREPARE DEVICE
2235**
2236** PURPOSE
2237** TO CONNECT THE INTERRUPT CONTROL BLOCK TO THIS DEVICE AND
2238** PREPARE ON THE DESIRED INTERRUPT LEVEL AND TO ALLOW THE DEVICE
2239** TO INTERRUPT.
2240**
2241** CALLING SEQUENCE
2242**
2243** THIS SUBROUTINE HAS THE FOLLOWING ENTRIES:
2244**
2245**
2246** --> BAL $CONC,R6 CLEAR DEV DEP SIG AND CONNECT I/O BLK
2247** --> BAL $CONP,R6 PREPARE DEVICE ONLY, ALREADY CONNECT
2248**
2249** RETURN CONTROL
2250**
2251** OR BXS (R6,2) RETURN TO USER VIA REG 6 IF OKAY
2252** B (R6)* IF THE DEVICE COULD NOT BE CONNECTED
2253**
2254** *****
2255+$CONC MVBI 6,R7 NUMBER OF BYTE TO CLEAR
2256+ MVBI 0,R3 * AND THE DATA TO USE
2257+ MVA DEV1,R5 * ALONG WITH THE ADRS TO USE
2258+ FPN R3,(R5) *
2259+ MVWZ OPTN3,R3 CLEAR OLD CONTROLS FOR NEW ROUTINE
2260+ MVA INTBL,R7 SET R7 TO CONTROL BLOCK AND
2261+ SVC CIEB * CONNECT IT TO THIS DEVICE
2262+ BN (R6)* ERROR RETURN TO USER
2263**
2264+$CONP MVW $INTL,I0DCB PUT IN LEVEL & INTR PARAMETER

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LOCTR OBJECT TEXT      STMT SOURCE STATEMENT      COPYRIGHT IBM CORP 1976
0038C8 4724 3896 0708 2265+ MVA IOBLK,R7 SET R7 TO CONTROL BLOCK TO PREPARE
0038CC 4020 33DC 0708 2266+ MVWZ X'0708', $I0IN INITIALIZE CONDITION CODE STORAGE
0038D2 CB25 33DE 2267+ MVB $ISB,R3 * AND CLEAR OLD ISB VALUE
0038D6 6E0D 33E0 2268+ MVB R6,$STIO SET UP ADDRESS THAT STARTED LAST I/O
0038DA 600C 2269+ SVC PR2 * AND CALL ON SUPVR
0038DC 5601 2270+ BXS (R6,2) RETURN TO USER
2271** *****
2272** *****06APR 76**
2273**
2274** SUBROUTINE
2275**
2276** DISCONNECT THE INTERRUPT CONTROL BLOCK AND LOG ERRORS
2277**
2278** PURPOSE
2279**
2280** DISCONNECT THE INTERRUPT CONTROL BLOCK TO THIS DEVICE AND
2281** SET THE 'NO GOOD' CONTROL BIT, THEN LOG THE DATA THAT HAS
2282** BEEN FOUND TO HELP THE OPERATOR DEFINE THE ERROR CONDITION.
2283**
2284** CALLING SEQUENCE
2285**
2286** THIS SUBROUTINE HAS THE FOLLOWING ENTRIES:
2287**
2288** --> B $ERRS SET 'NG' BIT AND CONVERT DATA TO LOG
2289** --> B $CONX RETURN TO MDI SUPERVISOR TO TEST STS
2290**
2291** RETURN CONTROL
2292**
2293** OR B TURTN* RETURN TO MDI
2294** (R6)* IF THE DEVICE COULD NOT BE CONNECTED
2295** *****
2296** *****
2297+$ERRS MVWZ X'1800',TUSTATUS SET ON 'NO GOOD' STATUS BIT
2298+ MVA HEBLK,R7 GET ADRS OF CONTROL BLOCK
2299+ SVC HTOE CONVERT HEX TO EBC VIS DCP
2300+$PRNT MVBI 3,R5
2301+ MVA TUNCRK,R3 SET UP BUFEP STORAGE
2302+ MVW R3,BUFP
2303+ MVA LINE1,R1
2304+ MVBI 4,R7
2305+ MVBI 8,R6
2306+ MVFN (R3),(R1)
2307+ MVBI 4,R7
2308+ MVBI X'40',R2
2309+ MVB R2,(R1)+
2310+ JCT MVBUF,R6
2311+ MVBI 8,R6
2312+ AWT 44,R1
2313+ JCT MVBUF,R5
2314+ MVWZ PIDMSG10,PID+2
2315+ MVA FAKETU,@DCADD1
2316+ MVA DC2PT,@DCADD2
2317+ OWI BIT0080,SUPSTAT
2318+ MVA $TUID,R3 SET UP BUFFER STORAGE
2319+ BAL TUNSGTR*,R7 GO TO MESSAGE WRITER
2320**
2321+$CONX EQU *
2322+ MVB DEVADD,R7 GET DEVICE ADDRESS FROM MDI
2323+ SVC RICB RELEASE INTERRUPT CONTROL BLOCK
2324+ B TURTN* RETURN TO MDI SUPERVISOR
2325**
2326+$BEGIN DC A(0007) NUMBER OF LINES TO PRINT
2327+ DC A(0008) LINE LENGTH = 8 CHAR
2328+ DC C'* ABORT'
2329+ DC A(0040)
2330+ DC C'TUID IOIN ISB INST LINE LENGTH = 40 CHAR
2331+ DC A(0040) LINE LENGTH = 40 CHAR
2332+ DC C'
2333+ DC A(0040) LINE LENGTH = 40 CHAR
2334+ DC C'CNTRL DCB2 DCB3 DCB4 DCB5 CHAD EYCT ADRS'
2335+ DC A(0040) LINE LENGTH = 40 CHAR
2336+$LINE2 DC C'
2337+ DC A(0040) LINE LENGTH = 40 CHAR
2338+ DC C'RSID CS-2 CS-3 CS-4 CS-5 CS-6 CS-7 CS-8'
2339+ DC A(0040) LINE LENGTH = 40 CHAR
2340+$LINE3 DC C'
2341**
2342+BUFP DC A(*-*)
2343+DC2PT DC A($BEGIN)
2344+FAKETU DC X'0101'
2345+FAKETU DC X'0101'
2346+PIDMSG10 EQU X'1F0F'
2347+BIT0080 EQU X'0080'
2348**
2349** DATA CONTROL BLOCK FOR CONVERTING HEX TO EBCDIC
2350**
2351+HEBLK DC A(48) NUMBER OF BYTES TO CONVERT
2352+ DC A($TUID) FROM ADRS
2353+ DC A(TUWORK) AND THE TO ADRS
2354+ END

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CROSS-REFERENCE LISTING

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CROSS-REFERENCE LISTING

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
0	.R0.	ABSOLUTE. HEX VALUE(00000000) 1811 1812 1813 1814 1818 1819 1820 1821
0	.R1.	ABSOLUTE. HEX VALUE(00000001) 2303 2306 2309 2312
0	.R2.	ABSOLUTE. HEX VALUE(00000002) 1411 1412 1413 1414 1415 1416 2308 2309
0	.R3.	ABSOLUTE. HEX VALUE(00000003) 1717 1718 1719 1720 1721 1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737 1738 1739 1740 1741 1742 1743 1744 1745 1746 1747 1748 1749 1750 1751 1752 1753 1754 1755 1756 1757 1758 1759 1760 1761 1762 1763 1764 1765 1766 1767 1768 1769 1770 1771 1772 1773 1774 1775 1776 1777 1778 1779 1780 1781 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1800 1801 1802 1803 1804 1805 1806 1807 1808 1809 1810 1811 1812 1813 1814 1815 1816 1817 1818 1819 1820 1821 1822 1823 1824 1825 1826 1827 1828 1829 1830 1831 1832 1833 1834 1835 1836 1837 1838 1839 1840 1841 1842 1843 1844 1845 1846 1847 1848 1849 1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864 1865 1866 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818 2819 2820 2821 2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842 2843 2844 2845 2846 2847 2848 2849 2850 2851 2852 2853 2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864 2865 2866 2867 2868 2869 2870 2871 2872 2873 2874 2875 2876 2877 2878 2879 2880 2881 2882 2883 2884 2885 2886 2887 2888 2889 2890 2891 2892 2893 2894 2895 2896 2897 2898 2899 2900 2901 2902 2903 2904 2905 2906 2907 2908 2909 2910 2911 2912 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2321	\$CONX	ADDRESS. HEX LOCATION(0000392E) IN CSECT(I7802) LENGTH(1)
2297	\$ERR\$	ADDRESS. HEX LOCATION(000038DE) IN CSECT(I7802) LENGTH(6)
1263	\$INTL	ADDRESS. HEX LOCATION(00003410) IN CSECT(I7802) LENGTH(2)
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1234	\$ISB	ADDRESS. HEX LOCATION(000033DE) IN CSECT(I7802) LENGTH(2)
1218	\$LE	ABSOLUTE. HEX VALUE(00000026) 2036 2176
1232	\$TUID	ADDRESS. HEX LOCATION(000033DA) IN CSECT(I7802) LENGTH(2)
102	@CADD1	ADDRESS. HEX LOCATION(000019B8) IN CSECT(I7802) LENGTH(1)
103	@CADD2	ADDRESS. HEX LOCATION(000019BA) IN CSECT(I7802) LENGTH(1)
39	@FIXT	ABSOLUTE. HEX VALUE(00000101) 573 576 579 600 603 606 627 630 633 654 657 660 681 684 687 708 711 714 735 738 741 759 762 780 783 801 804 822 825 843 846 864 867 885 888 906 909 924 927
38	@QUES	ABSOLUTE. HEX VALUE(00000100) 567 570 594 597 621 624 648 651 675 678 702 705 729 732 756 777 798 819 840 861 882 903
45	@TUXX	ABSOLUTE. HEX VALUE(00000500) 555 582 609 636 663 690 717 744 765 786 807 828 849 870 891 912
2326	BEGIN	ADDRESS. HEX LOCATION(00003938) IN CSECT(I7802) LENGTH(2)
2347	BIT0080	ABSOLUTE. HEX VALUE(00000080) 2343
2342	BUFPT	ADDRESS. HEX LOCATION(00003A40) IN CSECT(I7802) LENGTH(2)
1586	CB29	ADDRESS. HEX LOCATION(0000355E) IN CSECT(I7802) LENGTH(2)
1716	CCERR	ADDRESS. HEX LOCATION(00003630) IN CSECT(I7802) LENGTH(2)
1222	CE	ABSOLUTE. HEX VALUE(0000002A) 2015 2127 2197
1302	CICB	ABSOLUTE. HEX VALUE(00000014) 2261
1455	CLDCB	ADDRESS. HEX LOCATION(0000348C) IN CSECT(I7802) LENGTH(2)
1220	CS	ABSOLUTE. HEX VALUE(00000028) 2016 2019 2125 2166 2195
1221	CSA	ABSOLUTE. HEX VALUE(00000029) 2200
1251	CSBUF	ADDRESS. HEX LOCATION(000033FA) IN CSECT(I7802) LENGTH(1)
1505	CSDCB	ADDRESS. HEX LOCATION(000034DC) IN CSECT(I7802) LENGTH(2)
1253	CSTL2	ADDRESS. HEX LOCATION(000033FC) IN CSECT(I7802) LENGTH(2)
1259	CSTL8	ADDRESS. HEX LOCATION(00003408) IN CSECT(I7802) LENGTH(2)
1241	DCBUF	ADDRESS. HEX LOCATION(000033FA) IN CSECT(I7802) LENGTH(1)
2343	DC2PT	ADDRESS. HEX LOCATION(00003A42) IN CSECT(I7802) LENGTH(2)
105	DEVADD	ADDRESS. HEX LOCATION(000019D0) IN CSECT(I7802) LENGTH(1)
1236	DEV1	ADDRESS. HEX LOCATION(000033E2) IN CSECT(I7802) LENGTH(2)
1443	DGDCB	ADDRESS. HEX LOCATION(0000347C) IN CSECT(I7802) LENGTH(2)
67	DUMMY	ABSOLUTE. HEX VALUE(00000000) 1957
930	ENTPT	ADDRESS. HEX LOCATION(0000286E) IN CSECT(I7802) LENGTH(1)
1213	ER	ABSOLUTE. HEX VALUE(00000021) 1421 2033 2052 2135 2177 2202
1288	EXIT	ABSOLUTE. HEX VALUE(00000006) 2184
2345	FAKETU	ADDRESS. HEX LOCATION(00003A46) IN CSECT(I7802) LENGTH(2)

DECLARED	NAME	ATTRIBUTES AND REFERENCES
1587	FIVE9	2315 ADDRESS. HEX LOCATION(00003560) IN CSECT(I7802) LENGTH(2)
949	F00031	1816 ADDRESS. HEX LOCATION(00002874) IN CSECT(I7802) LENGTH(1)
959	F00038	574 ADDRESS. HEX LOCATION(00002912) IN CSECT(I7802) LENGTH(1)
969	F00045	577 ADDRESS. HEX LOCATION(000029AA) IN CSECT(I7802) LENGTH(1)
973	F00059	580 ADDRESS. HEX LOCATION(000029CC) IN CSECT(I7802) LENGTH(1)
985	F00064	601 ADDRESS. HEX LOCATION(00002A68) IN CSECT(I7802) LENGTH(1)
979	F00067	607 ADDRESS. HEX LOCATION(00002A1C) IN CSECT(I7802) LENGTH(1)
989	F00083	604 ADDRESS. HEX LOCATION(00002A8A) IN CSECT(I7802) LENGTH(1)
1001	F00088	628 ADDRESS. HEX LOCATION(00002B26) IN CSECT(I7802) LENGTH(1)
995	F00091	638 ADDRESS. HEX LOCATION(00002ADA) IN CSECT(I7802) LENGTH(1)
1005	F00107	631 ADDRESS. HEX LOCATION(00002E44) IN CSECT(I7802) LENGTH(1)
1017	F00112	655 ADDRESS. HEX LOCATION(00002BE0) IN CSECT(I7802) LENGTH(1)
1011	F00115	661 ADDRESS. HEX LOCATION(00002B94) IN CSECT(I7802) LENGTH(1)
1021	F00131	658 ADDRESS. HEX LOCATION(00002BFE) IN CSECT(I7802) LENGTH(1)
1033	F00136	682 ADDRESS. HEX LOCATION(00002C9A) IN CSECT(I7802) LENGTH(1)
1027	F00139	688 ADDRESS. HEX LOCATION(00002C4E) IN CSECT(I7802) LENGTH(1)
1037	F00155	685 ADDRESS. HEX LOCATION(00002CB8) IN CSECT(I7802) LENGTH(1)
1049	F00160	709 ADDRESS. HEX LOCATION(00002D54) IN CSECT(I7802) LENGTH(1)
1043	F00163	715 ADDRESS. HEX LOCATION(00002D08) IN CSECT(I7802) LENGTH(1)
1053	F00179	712 ADDRESS. HEX LOCATION(00002D76) IN CSECT(I7802) LENGTH(1)
1065	F00184	736 ADDRESS. HEX LOCATION(00002E12) IN CSECT(I7802) LENGTH(1)
1059	F00187	742 ADDRESS. HEX LOCATION(00002DC6) IN CSECT(I7802) LENGTH(1)
1069	F00199	739 ADDRESS. HEX LOCATION(00002E34) IN CSECT(I7802) LENGTH(1)
1075	F00204	760 ADDRESS. HEX LOCATION(00002E84) IN CSECT(I7802) LENGTH(1)
1081	F00216	763 ADDRESS. HEX LOCATION(00002EDA) IN CSECT(I7802) LENGTH(1)
1087	F00221	781 ADDRESS. HEX LOCATION(00002F2A) IN CSECT(I7802) LENGTH(1)
1093	F00233	784 ADDRESS. HEX LOCATION(00002F80) IN CSECT(I7802) LENGTH(1)
1099	F00238	807 ADDRESS. HEX LOCATION(00002FD0) IN CSECT(I7802) LENGTH(1)
1105	F00250	805 ADDRESS. HEX LOCATION(00003026) IN CSECT(I7802) LENGTH(1)
1111	F00255	823 ADDRESS. HEX LOCATION(00003076) IN CSECT(I7802) LENGTH(1)
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1123	F00272	844 ADDRESS. HEX LOCATION(0000311C) IN CSECT(I7802) LENGTH(1)
1129	F00285	847 ADDRESS. HEX LOCATION(00003172) IN CSECT(I7802) LENGTH(1)
1135	F00290	865 ADDRESS. HEX LOCATION(000031C2) IN CSECT(I7802) LENGTH(1)
1141	F00302	868 ADDRESS. HEX LOCATION(00003218) IN CSECT(I7802) LENGTH(1)
1147	F00307	886 ADDRESS. HEX LOCATION(00003268) IN CSECT(I7802) LENGTH(1)
1153	F00319	889 ADDRESS. HEX LOCATION(000032BE) IN CSECT(I7802) LENGTH(1)
1159	F00324	907 ADDRESS. HEX LOCATION(0000330E) IN CSECT(I7802) LENGTH(1)
1165	F00332	910 ADDRESS. HEX LOCATION(00003364) IN CSECT(I7802) LENGTH(1)
1171	F00337	925 ADDRESS. HEX LOCATION(000033B4) IN CSECT(I7802) LENGTH(1)
2351	HEBLK	928 ADDRESS. HEX LOCATION(00003A48) IN CSECT(I7802) LENGTH(2)
1308		

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
2165	INTP1	ADDRESS. HEX LOCATION(00003836) IN CSECT(I7802) LFNGTH(2)
2170	INTR2	2130 2134 2136 ADDRESS. HEX LOCATION(00003844) IN CSECT(I7802) LENGTH(1)
2178	INTR3	2167 ADDRESS. HEX LOCATION(00003852) IN CSECT(I7802) LENGTH(2)
2216	IOBLK	2175 ADDRESS. HEX LOCATION(00003896) IN CSECT(I7802) LENGTH(2)
2218	IODCB	1417 2035 2265 ADDRESS. HEX LOCATION(0000389A) IN CSECT(I7802) LENGTH(2)
2219	IOMOD	1895 1898 1901 1913 1916 1919 1922 1930 1934 1938 1946 1950 1953 1957 2017 2023 2264 ADDRESS. HEX LOCATION(0000389C) IN CSECT(I7802) LENGTH(2)
37	I7802	2012 2018 CSECT. STAPT(00002500) LENGTH(5454) ESDID(0)
1584	LGSEC	37 ADDRESS. HEX LOCATION(0000355A) IN CSECT(I7802) LFNGTH(2)
2332	LINE1	1807 1809 1812 1819 ADDRESS. HEX LOCATION(00003970) IN CSECT(I7802) LENGTH(40)
1235	LSTIO	2303 ADDRESS. HEX LOCATION(000033E0) IN CSECT(I7802) LENGTH(2)
1212	MI	1685 1691 1697 1704 1710 2021 2268 ABSOLUTE. HEX VALUE(00000020)
2306	MVBUF	2180 ADDRESS. HEX LOCATION(000038FC) IN CSECT(I7802) LENGTH(2)
1224	NG	2310 2313 ABSOLUTE. HEX VALUE(0000002C)
1219	NI	2183 ABSOLUTE. HEX VALUE(00000027)
555	N00001	2040 ADDRESS. HEX LOCATION(00002638) IN CSECT(I7802) LENGTH(2)
567	N00002	315 340 ADDRESS. HEX LOCATION(0000264C) IN CSECT(I7802) LENGTH(2)
570	N00003	318 ADDRESS. HEX LOCATION(00002650) IN CSECT(I7802) LENGTH(2)
573	N00004	321 ADDRESS. HEX LOCATION(00002654) IN CSECT(I7802) LENGTH(2)
576	N00005	324 ADDRESS. HEX LOCATION(00002658) IN CSECT(I7802) LENGTH(2)
579	N00006	327 571 ADDRESS. HEX LOCATION(0000265C) IN CSECT(I7802) LENGTH(2)
582	N00007	330 568 ADDRESS. HEX LOCATION(00002660) IN CSECT(I7802) LENGTH(2)
594	N00008	333 556 ADDRESS. HEX LOCATION(00002674) IN CSECT(I7802) LENGTH(2)
597	N00009	336 ADDRESS. HEX LOCATION(00002678) IN CSECT(I7802) LENGTH(2)
600	N00010	339 ADDRESS. HEX LOCATION(0000267C) IN CSECT(I7802) LENGTH(2)
603	N00011	342 ADDRESS. HEX LOCATION(00002680) IN CSECT(I7802) LENGTH(2)
606	N00012	345 598 ADDRESS. HEX LOCATION(00002684) IN CSECT(I7802) LENGTH(2)
609	N00013	348 595 ADDRESS. HEX LOCATION(00002688) IN CSECT(I7802) LENGTH(2)
621	N00014	351 583 ADDRESS. HEX LOCATION(0000269C) IN CSECT(I7802) LENGTH(2)
624	N00015	354 ADDRESS. HEX LOCATION(000026A0) IN CSECT(I7802) LENGTH(2)
627	N00016	357 ADDRESS. HEX LOCATION(000026A4) IN CSECT(I7802) LENGTH(2)
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636	N00019	366 622 ADDRESS. HEX LOCATION(000026B0) IN CSECT(I7802) LENGTH(2)
648	N00020	369 610 ADDRESS. HEX LOCATION(000026C4) IN CSECT(I7802) LENGTH(2)
651	N00021	372 ADDRESS. HEX LOCATION(000026C8) IN CSECT(I7802) LENGTH(2)
654	N00022	375 ADDRESS. HEX LOCATION(000026CC) IN CSECT(I7802) LENGTH(2)
657	N00023	378 ADDRESS. HEX LOCATION(000026D0) IN CSECT(I7802) LENGTH(2)
660	N00024	381 652 ADDRESS. HEX LOCATION(000026D4) IN CSECT(I7802) LENGTH(2)
663	N00025	384 649 ADDRESS. HEX LOCATION(000026D8) IN CSECT(I7802) LENGTH(2)
675	N00026	387 637 ADDRESS. HEX LOCATION(000026EC) IN CSECT(I7802) LENGTH(2)
678	N00027	390 ADDRESS. HEX LOCATION(000026F0) IN CSECT(I7802) LENGTH(2)
681	N00028	393 ADDRESS. HEX LOCATION(000026F4) IN CSECT(I7802) LENGTH(2)
684	N00029	396 ADDRESS. HEX LOCATION(000026F8) IN CSECT(I7802) LENGTH(2)
687	N00030	399 679 ADDRESS. HEX LOCATION(000026FC) IN CSECT(I7802) LENGTH(2)
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702	N00032	405 664 ADDRESS. HEX LOCATION(00002714) IN CSECT(I7802) LENGTH(2)
705	N00033	408 ADDRESS. HEX LOCATION(00002718) IN CSECT(I7802) LENGTH(2)
708	N00034	411 ADDRESS. HEX LOCATION(0000271C) IN CSECT(I7802) LENGTH(2)
711	N00035	414 ADDRESS. HEX LOCATION(00002720) IN CSECT(I7802) LENGTH(2)
714	N00036	417 706 ADDRESS. HEX LOCATION(00002724) IN CSECT(I7802) LENGTH(2)
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729	N00038	423 691 ADDRESS. HEX LOCATION(0000273C) IN CSECT(I7802) LENGTH(2)
732	N00039	426 ADDRESS. HEX LOCATION(00002740) IN CSECT(I7802) LENGTH(2)
735	N00040	429 ADDRESS. HEX LOCATION(00002744) IN CSECT(I7802) LENGTH(2)
738	N00041	432 ADDRESS. HEX LOCATION(00002748) IN CSECT(I7802) LENGTH(2)
		435 733

DECLARED	NAME	ATTRIBUTES AND REFERENCES
741	N00042	ADDRESS. HEX LOCATION(0000274C) IN CSECT(I7802) LENGTH(2)
744	N00043	438 730 ADDRESS. HEX LOCATION(00002750) IN CSECT(I7802) LENGTH(2)
756	N00044	441 718 ADDRESS. HEX LOCATION(00002764) IN CSECT(I7802) LENGTH(2)
759	N00045	444 ADDRESS. HEX LOCATION(00002768) IN CSECT(I7802) LENGTH(2)
762	N00046	447 ADDRESS. HEX LOCATION(0000276C) IN CSECT(I7802) LENGTH(2)
765	N00047	450 757 ADDRESS. HEX LOCATION(00002770) IN CSECT(I7802) LENGTH(2)
777	N00048	453 745 ADDRESS. HEX LOCATION(00002784) IN CSECT(I7802) LENGTH(2)
780	N00049	456 ADDRESS. HEX LOCATION(00002788) IN CSECT(I7802) LENGTH(2)
783	N00050	459 ADDRESS. HEX LOCATION(0000278C) IN CSECT(I7802) LENGTH(2)
786	N00051	462 778 ADDRESS. HEX LOCATION(00002790) IN CSECT(I7802) LENGTH(2)
798	N00052	465 766 ADDRESS. HEX LOCATION(000027A4) IN CSECT(I7802) LENGTH(2)
801	N00053	468 ADDRESS. HEX LOCATION(000027A8) IN CSECT(I7802) LENGTH(2)
804	N00054	471 ADDRESS. HEX LOCATION(000027AC) IN CSECT(I7802) LENGTH(2)
807	N00055	474 799 ADDRESS. HEX LOCATION(000027B0) IN CSECT(I7802) LENGTH(2)
819	N00056	477 787 ADDRESS. HEX LOCATION(000027C4) IN CSECT(I7802) LENGTH(2)
822	N00057	480 ADDRESS. HEX LOCATION(000027C8) IN CSECT(I7802) LENGTH(2)
825	N00058	483 ADDRESS. HEX LOCATION(000027CC) IN CSECT(I7802) LENGTH(2)
828	N00059	486 820 ADDRESS. HEX LOCATION(000027D0) IN CSECT(I7802) LENGTH(2)
840	N00060	489 808 ADDRESS. HEX LOCATION(000027E4) IN CSECT(I7802) LENGTH(2)
843	N00061	492 ADDRESS. HEX LOCATION(000027E8) IN CSECT(I7802) LENGTH(2)
846	N00062	495 ADDRESS. HEX LOCATION(000027EC) IN CSECT(I7802) LENGTH(2)
849	N00063	498 841 ADDRESS. HEX LOCATION(000027F0) IN CSECT(I7802) LENGTH(2)
861	N00064	501 829 ADDRESS. HEX LOCATION(00002804) IN CSECT(I7802) LENGTH(2)
864	N00065	504 ADDRESS. HEX LOCATION(00002808) IN CSECT(I7802) LENGTH(2)
867	N00066	507 ADDRESS. HEX LOCATION(0000280C) IN CSECT(I7802) LENGTH(2)
870	N00067	510 862 ADDRESS. HEX LOCATION(00002810) IN CSECT(I7802) LENGTH(2)
882	N00068	513 850 ADDRESS. HEX LOCATION(00002824) IN CSECT(I7802) LENGTH(2)
885	N00069	516 ADDRESS. HEX LOCATION(00002828) IN CSECT(I7802) LENGTH(2)
888	N00070	519 ADDRESS. HEX LOCATION(0000282C) IN CSECT(I7802) LENGTH(2)
891	N00071	522 883 ADDRESS. HEX LOCATION(00002830) IN CSECT(I7802) LENGTH(2)
903	N00072	525 871 ADDRESS. HEX LOCATION(00002844) IN CSECT(I7802) LENGTH(2)
906	N00073	528 ADDRESS. HEX LOCATION(00002848) IN CSECT(I7802) LENGTH(2)
909	N00074	531 ADDRESS. HEX LOCATION(0000284C) IN CSECT(I7802) LENGTH(2)
912	N00075	534 904 ADDRESS. HEX LOCATION(00002850) IN CSECT(I7802) LENGTH(2)
924	N00076	537 892 ADDRESS. HEX LOCATION(00002864) IN CSECT(I7802) LENGTH(2)
927	N00077	540 ADDRESS. HEX LOCATION(00002868) IN CSECT(I7802) LENGTH(2)
58	OF	543 913 ABSOLUTE. HEX VALUE(00000020)
1177	OPTN1	558 585 612 639 666 693 720 747 768 789 810 831 852 873 894 915 ADDRESS. HEX LOCATION(000033D4) IN CSECT(I7802) LENGTH(2)
1200	OPTN3	1407 2124 2164 ADDRESS. HEX LOCATION(000033D8) IN CSECT(I7802) LENGTH(2)
101	PARMARA	1426 2211 2259 ADDRESS. HEX LOCATION(0000196E) IN CSECT(I7802) LENGTH(1)
1585	PHYSC	565 592 619 646 673 700 727 754 775 796 817 838 859 880 901 922 ADDRESS. HEX LOCATION(0000355C) IN CSECT(I7802) LENGTH(2)
69	PID	1814 1816 1821 ADDRESS. HEX LOCATION(00001800) IN CSECT(I7802) LENGTH(1)
2346	PTDMSG10	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 2314 ABSOLUTE. HEX VALUE(0000F1F0)
1294	PREP	2314 ABSOLUTE. HEX VALUE(0000000C)
1538	RDDCB	2269 ADDRESS. HEX LOCATION(0000350C) IN CSECT(I7802) LENGTH(2)
1290	RESET	1910 1913 ABSOLUTE. HEX VALUE(00000008)
1301	RICB	1418 ABSOLUTE. HEX VALUE(00000013)
1560	RKDCB	2323 ADDRESS. HEX LOCATION(0000352C) IN CSECT(I7802) LENGTH(2)
1470	RSDCB	1922 1927 1934 1935 ADDRESS. HEX LOCATION(000034AC) IN CSECT(I7802) LENGTH(2)
1818	RPT01	1901 1906 1938 1943 ADDRESS. HEX LOCATION(000036A4) IN CSECT(I7802) LENGTH(4)
1240	SCTID	1810 ADDRESS. HEX LOCATION(000033E2) IN CSECT(I7802) LENGTH(2)
1595	SCTST	1477 1489 1567 1763 1844 1903 1906 1924 1927 ADDRESS. HEX LOCATION(00003570) IN CSECT(I7802) LENGTH(2)
1494	SKDCB	1759 1935 1940 1943 ADDRESS. HEX LOCATION(000034CC) IN CSECT(I7802) LENGTH(2)

CROSS-REFERENCE LISTING

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
1292	START	1895 ABSOLUTE. HEX VALUE (0000000A)
104	SUPSTAT	2038 ADDRESS. HEX LOCATION (000019C4) IN CSECT (I7802) LENGTH (1)
1816	TT303	2317 ADDRESS. HEX LOCATION (0000369C) IN CSECT (I7802) LENGTH (6)
1822	TT304	1808 ADDRESS. HEX LOCATION (000036B4) IN CSECT (I7802) LENGTH (4)
1765	TT4Y	1806 1815 1817 ADDRESS. HEX LOCATION (0000366C) IN CSECT (I7802) LENGTH (2)
92	TUMSGWTR	1761 ADDRESS. HEX LOCATION (000018BA) IN CSECT (I7802) LENGTH (1)
98	TURESUL	2319 ADDRESS. HEX LOCATION (000018C8) IN CSECT (I7802) LENGTH (1) 1411 1412 1413 1414 1415 1416 1423 1424 1425
1264	TURTN	1426 ADDRESS. HEX LOCATION (00003412) IN CSECT (I7802) LENGTH (2)
74	TUSTATUS	1405 2324 ADDRESS. HEX LOCATION (00001818) IN CSECT (I7802) LENGTH (1)
75	TUWORK	2297 ADDRESS. HEX LOCATION (0000181A) IN CSECT (I7802) LENGTH (1)
1273	T3C02	2301 2353 ADDRESS. HEX LOCATION (0000341A) IN CSECT (I7802) LENGTH (6) 584 611 638 665 692 719 746 767 788
1405	T7808	809 830 851 872 893 914 ADDRESS. HEX LOCATION (00003422) IN CSECT (I7802) LENGTH (4)
1527	VPDCB	557 ADDRESS. HEX LOCATION (000034FC) IN CSECT (I7802) LENGTH (2)
1549	WKDCB	1916 ADDRESS. HEX LOCATION (0000351C) IN CSECT (I7802) LENGTH (2)
1516	WRDCB	1930 1931 1946 1947 ADDRESS. HEX LOCATION (000034EC) IN CSECT (I7802) LENGTH (2)
1588	WRSID	1919 ADDRESS. HEX LOCATION (00003562) IN CSECT (I7802) LENGTH (2)
1460	WSDCB	1467 1556 1764 1845 1947 1951 ADDRESS. HEX LOCATION (0000349C) IN CSECT (I7802) LENGTH (2)
1592	WSIDT	1950 1951 1953 1954 ADDRESS. HEX LOCATION (0000356A) IN CSECT (I7802) LENGTH (2)
1216	XE	1760 1931 1954 ABSOLUTE. HEX VALUE (00000024)
1214	XI	2131 2193 ABSOLUTE. HEX VALUE (00000022)
2012	XIO	2037 2178 ADDRESS. HEX LOCATION (00003798) IN CSECT (I7802) LENGTH (4) 1896 1899 1907 1914 1917 1920 1928 1932 1936
2193	XIOCK	1944 1948 1952 1955 1958 ADDRESS. HEX LOCATION (00003860) IN CSECT (I7802) LENGTH (2)
2200	XIOCO	2047 ADDRESS. HEX LOCATION (00003872) IN CSECT (I7802) LENGTH (2)
2017	XIOCS	2198 ADDRESS. HEX LOCATION (000037A2) IN CSECT (I7802) LENGTH (6)
2202	XIOCV	1419 2209 ADDRESS. HEX LOCATION (00003876) IN CSECT (I7802) LENGTH (2)
2211	XIOCX	2196 ADDRESS. HEX LOCATION (00003890) IN CSECT (I7802) LENGTH (4)
2086	XIOER	2203 ADDRESS. HEX LOCATION (000037FE) IN CSECT (I7802) LENGTH (2)
2021	XIO1	2217 ADDRESS. HEX LOCATION (000037B2) IN CSECT (I7802) LENGTH (4)
2034	XIO2	2013 ADDRESS. HEX LOCATION (000037D8) IN CSECT (I7802) LENGTH (2)
2046	XIO8	2020 ADDRESS. HEX LOCATION (000037EC) IN CSECT (I7802) LENGTH (2)
1570	ZERO0	2051 ADDRESS. HEX LOCATION (0000353C) IN CSECT (I7802) LENGTH (2) 1807