

DBTL

SOFTWARE

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DTSS L-6 HOST RESIDENT FACILITY PAGE 0001

000001

000002

000003

0387

0000

2 TITLE DBTL SOFTWARE

4 XDEF ESDBTL NEEDED FOR MODULE MAP

5 S\$DBTL EQU \$ START OF MODULE DBTL

000004		1000 /EJECT	
000005		1010 *	
000006		1020 *IO DRIVERS	
000007		1030 *	
000008	0000	1040 \$IOCHO EQU Z'0000'	IO CHANNELS
000009	0040	1050 \$IOCH1 EQU Z'0040'	
000010	0080	1060 \$IOCH2 EQU Z'0080'	
000011	00C0	1070 \$IOCH3 EQU Z'00C0'	
000012		1080 *	
000013	0001	1090 \$OTCTL EQU Z'0001'	CONTROL INFORMATION OUTPUT
000014	0002	1100 \$ICTLI EQU Z'0002'	INPUT INT CONTROL INFO
000015	0003	1110 \$ICTLO EQU Z'0003'	OUTPUT INT CONTROL INFO
000016	0005	1120 \$OCCTL EQU Z'0005'	OUTPUT CHANNEL CONTROL
000017	0006	1130 \$TSKRI EQU Z'0006'	INPUT TASK REGISTER
000018	0007	1140 \$TSKRO EQU Z'0007'	OUTPUT TASK REGISTER
000019	0008	1150 \$INMBA EQU Z'0008'	INPUT MEMORY BYTE ADDRESS
000020	000A	1160 \$INMMA EQU Z'000A'	INPUT MEMORY MODULE ADDRESS
000021	000C	1170 \$INRNG EQU Z'000C'	INPUT RANGE RESIDUE
000022	000F	1180 \$OBCTL EQU Z'000F'	OUTPUT BUFFER CONTROL
000023	0010	1190 \$CFGAI EQU Z'0010'	INPUT CNFG REGISTER A
000024	0011	1200 \$CFGAO EQU Z'0011'	OUTPUT CNFG REGISTER A
000025	0012	1210 \$CFGBI EQU Z'0012'	INPUT CNFG REGISTER B
000026	0013	1220 \$CFGBO EQU Z'0013'	OUTPUT CNFG REGISTER B
000027		1230 *	
000028	0018	1240 \$ISTS1 EQU Z'0018'	INPUT STATUS REG 1
000029	001A	1250 \$ISTS2 EQU Z'001A'	INPUT STATUS REG 2
000030	0026	1260 \$IDINP EQU Z'0026'	INPUT DEVICE ID
000031		1270 *	
000032	0009	1280 \$IOLD EQU Z'0009'	SIMPLE LOAD (NO DIRECTION)
000033	0009	1290 \$IOLDI EQU \$IOLD+\$IOCHO	LOAD AND START DCW EXECUTION (TO US)
000034	0049	1300 \$IOLDO EQU \$IOLD+\$IOCH1	LOAD AND START DCW EXECUTION (FROM US)
000035		1310 *	
000036		1320 *MISCELLANEOUS CHANNELS	
000037		1330 *	
000038	0000	1340 CPUOCH EQU 0	CHANNEL OF CPU#0
000039	0400	1350 BTLDCH EQU Z'0400'	BOOTLOAD CHANNEL
000040	FF80	1355 LASTCH EQU Z'FF80'	LAST POSSIBLE L6 CHANNEL TO CHECK FOR DISKETTE
000041		1360 *	
000042		1370 *	
000043		1380 *CLOCK BLOCK DEFINITIONS	
000044		1390 *	
000045	0001	1400 FPTR EQU 1	FIRST BLOCK POINTER
000046	0002	1410 LPTR EQU 2	LAST BLOCK POINTER (SAF)
000047		1420 *	
000048	0003	1430 USRDTA EQU 3	START OF DATA IN QUEUE BLOCKS
000049		1440 *	
000050	0003	1450 SWORD EQU 3	S-REGISTER OR STATUS
000051	0004	1460 UWORD EQU 4	USERS XB7
000052	0006	1470 RWORD EQU 6	RUN ADDRESS

000053		2000 /EJECT	
000054		2001 *	
000055		2002 *ASCII VALUES	
000056		2003 *	
000057		2004 *CONTROL CHARACTERS	
000058		2005 *	
000059	000D	2006 \$ASCCR EQU 13	
000060	000A	2007 \$ASCLF EQU 10	
000061	001B	2008 \$ASCEC EQU 27	
000062	0D0A	2009 \$CRLF EQU \$ASCCR*Z'0100'+\$ASCLF	C/R L/F PAIR
000063		2010 *	
000064		2011 *NUMBERS (0-9)	
000065		2012 *	
000066	0030	2013 \$ASCO EQU 48	
000067	0031	2014 \$ASC1 EQU 49	
000068	0032	2015 \$ASC2 EQU 50	
000069	0033	2016 \$ASC3 EQU 51	
000070	0034	2017 \$ASC4 EQU 52	
000071	0035	2018 \$ASC5 EQU 53	
000072	0036	2019 \$ASC6 EQU 54	
000073	0037	2020 \$ASC7 EQU 55	
000074	0038	2021 \$ASC8 EQU 56	
000075	0039	2022 \$ASC9 EQU 57	
000076		2023 *	
000077		2024 *LETTERS (A-Z)	
000078		2025 *	
000079	0041	2026 \$ASCA EQU 65	
000080	0042	2027 \$ASCB EQU 66	
000081	0043	2028 \$ASCC EQU 67	
000082	0044	2029 \$ASCD EQU 68	
000083	0045	2030 \$ASCE EQU 69	
000084	0046	2031 \$ASCF EQU 70	
000085	0047	2032 \$ASCG EQU 71	
000086	0048	2033 \$ASCH EQU 72	
000087	0049	2034 \$ASCI EQU 73	
000088	004A	2035 \$ASCJ EQU 74	
000089	004B	2036 \$ASCK EQU 75	
000090	004C	2037 \$ASCL EQU 76	
000091	004D	2038 \$ASCM EQU 77	
000092	004E	2039 \$ASCN EQU 78	
000093	004F	2040 \$ASCO EQU 79	
000094	0050	2041 \$ASCP EQU 80	
000095	0051	2042 \$ASCQ EQU 81	
000096	0052	2043 \$ASCR EQU 82	
000097	0053	2044 \$ASCS EQU 83	
000098	0054	2045 \$ASCT EQU 84	
000099	0055	2046 \$ASCU EQU 85	
000100	0056	2047 \$ASCV EQU 86	
000101	0057	2048 \$ASCW EQU 87	
000102	0058	2049 \$ASCX EQU 88	
000103	0059	2050 \$ASCY EQU 89	
000104	005A	2051 \$ASCZ EQU 90	

000105		2052 /EJECT	
000106		2053 *	
000107		2054 *SPECIAL CHARACTERS	
000108		2055 *	
000109	0020	2056 \$ASCSP EQU 32	
000110	0024	2057 \$ASCDL EQU 36	
000111	0027	2058 \$ASCAP EQU 39	
000112	0028	2059 \$ASCLP EQU 40	
000113	0029	2060 \$ASCRP EQU 41	
000114	002A	2061 \$ASCAS EQU 42	
000115	002B	2062 \$ASCPL EQU 43	
000116	002C	2063 \$ASCCM EQU 44	
000117	002D	2064 \$ASCDS EQU 45	
000118	002E	2065 \$ASCDT EQU 46	
000119	002F	2066 \$ASCFS EQU 47	
000120	003A	2067 \$ASCCN EQU 58	
000121	003B	2068 \$ASCSC EQU 59	
000122	003C	2069 \$ASCLT EQU 60	
000123	003D	2070 \$ASCEQ EQU 61	
000124	003E	2071 \$ASCGT EQU 62	
000125	003F	2072 \$ASCQM EQU 63	
000126	0040	2073 \$ASCAT EQU 64	
000127	005C	2074 \$ASCBS EQU 92	
000128	005E	2075 \$ASCUA EQU 94	
000129	005F	2076 \$ASCBA EQU 95	
000130	007F	2077 \$ASCRO EQU 127	
000131	7F7F	2078 \$RORO EQU \$ASCRO*Z'0100'+\$ASCRO	TIME DELAY PAIR
000132		2079 *	
000133		2080 *CONTROL CHARACTERS	
000134		2081 *	
000135	0005	2082 \$ACCE EQU \$ASCE-64	
000136	0018	2083 \$ACCX EQU \$ASCX-64	
000137	001A	2084 \$ACCZ EQU \$ASCZ-64	
000138		2085 *	
000139	0009	2086 \$ASCHT EQU 9	HORIZONTAL TAB
000140	000B	2087 \$ASCVT EQU 11	VERTICAL TAB
000141	000C	2088 \$ASCFF EQU 12	FORM FEED
000142	0019	2089 \$ASCEM EQU 25	END MEDIA
000143	001D	2090 \$ASCGS EQU 29	GROUP SEPERATOR
000144	001E	2091 \$ASCRS EQU 30	RECORD SEPERATOR

000145		2092 /EJECT	
000146		2093 *	
000147		2094 *SPEED ASSIGNMENT TABLES	
000148		2095 *	
000149	0000	2096 \$\$10 EQU 0	LEVEL6 CODING FOR SPEED TABLES
000150	0002	2097 \$\$15 EQU 2	
000151	0003	2098 \$\$30 EQU 3	
000152	0004	2099 \$\$60 EQU 4	
000153	0005	2100 \$\$120 EQU 5	
000154	0006	2101 \$\$180 EQU 6	
000155	000A	2102 \$\$240 EQU 10	
000156	000B	2103 \$\$480 EQU 11	
000157	000C	2104 \$\$960 EQU 12	
000158	000D	2105 \$\$1920 EQU 13	
000159		2106 *	
000160	0010	2107 \$\$MAX EQU 16	UP TO SIXTEEN DIFFERENT SPEED SETTINGS
000161		2108 *	
000162		2109 *	
000163		2110 *SET MODE CONSTANTS	
000164		2111 *	
000165	0040	2112 SM\$000 EQU Z'0040'	BASE FOR MODE SETTING COMMANDS
000166		2113 *	
000167	0040	2114 SM\$ECH EQU Z'0040'	SET ECHOPLEX
000168	0041	2115 SM\$ROT EQU Z'0041'	SET RAW OUTPUT
000169	0042	2116 SM\$MFR EQU Z'0042'	MAINFRAME READY
000170	0043	2117 SM\$E00 EQU Z'0043'	MAINFRAME LOGICAL END OF OUTPUT
000171	0044	2118 SM\$FRD EQU Z'0044'	SET FRIDEN MODE
000172	0045	2119 SM\$RDO EQU Z'0045'	READ OUTSTANDING
000173	0046	2120 SM\$IDY EQU Z'0046'	IDLE DELAY (TIME/FILL)
000174		2121 *	
000175	0060	2122 SM\$DLY EQU Z'0060'	SET DELAY PARAMETERS
000176	0060	2123 SM\$DLO EQU SM\$DLY+0	
000177	0061	2124 SM\$DL1 EQU SM\$DLY+1	
000178	0062	2125 SM\$DL2 EQU SM\$DLY+2	
000179	0063	2126 SM\$DL3 EQU SM\$DLY+3	
000180	0064	2127 SM\$DL4 EQU SM\$DLY+4	
000181	0065	2128 SM\$DL5 EQU SM\$DLY+5	
000182	0066	2129 SM\$DL6 EQU SM\$DLY+6	
000183	0067	2130 SM\$DL7 EQU SM\$DLY+7	
000184		2131 *	
000185	0068	2132 SM\$OMD EQU Z'0068'	SET OUTPUT MODE
000186	0068	2133 SM\$OM0 EQU SM\$OMD+0	
000187	0069	2134 SM\$OM1 EQU SM\$OMD+1	
000188	006A	2135 SM\$OM2 EQU SM\$OMD+2	
000189	006B	2136 SM\$OM3 EQU SM\$OMD+3	

000190		3000 /EJECT	
000191		3001 *	
000192		3002 *HARDWARE SPECIFIC INFORMATION	
000193		3003 *	
000194		3004 *START OF INTERRUPT VECTOR (IV00) AND FAULT VECTOR (FV00)	
000195		3005 * +1=IV01 -1=FV01	
000196		3006 ***** IVECT EQU Z'0080'	
000197		3007 *	
000198		3008 *BIT MASK ASSIGNMENTS	
000199		3009 *	
000200	0001	3010 \$MKB7 EQU Z'0001'	
000201	0002	3011 \$MKB6 EQU Z'0002'	
000202	0004	3012 \$MKB5 EQU Z'0004'	
000203	0008	3013 \$MKB4 EQU Z'0008'	
000204	0010	3014 \$MKB3 EQU Z'0010'	
000205	0020	3015 \$MKB2 EQU Z'0020'	
000206	0040	3016 \$MKB1 EQU Z'0040'	
000207	0080	3017 \$MKI EQU Z'0080'	
000208	0100	3018 \$MKR7 EQU Z'0100'	
000209	0200	3019 \$MKR6 EQU Z'0200'	
000210	0400	3020 \$MKR5 EQU Z'0400'	
000211	0800	3021 \$MKR4 EQU Z'0800'	
000212	1000	3022 \$MKR3 EQU Z'1000'	
000213	2000	3023 \$MKR2 EQU Z'2000'	
000214	4000	3024 \$MKR1 EQU Z'4000'	
000215	8000	3025 \$MKM1 EQU Z'8000'	
000216		3026 *	
000217	7000	3027 \$MKR13 EQU \$MKR1+\$MKR2+\$MKR3	
000218	0F00	3028 \$MKR47 EQU \$MKR4+\$MKR5+\$MKR6+\$MKR7	
000219	0070	3029 \$MKB13 EQU \$MKB1+\$MKB2+\$MKB3	
000220	000F	3030 \$MKB47 EQU \$MKB4+\$MKB5+\$MKB6+\$MKB7	
000221	9090	3031 \$MKSTD EQU \$MKM1+\$MKI+\$MKR3+\$MKB3	STANDARD REGISTERS TO SAVE
000222		3032 *	
000223		3033 *	
000224		3034 *IV SAVED REGISTERS OFFSET	
000225		3035 *	
000226	FFFC	3036 \$IVLEV EQU Z'FFFC'	LEVEL ASSOCIATED (SOFT)
000227	FFFF	3037 \$IVTSA EQU Z'FFFF'	TSAP
000228	0000	3038 \$IVDEV EQU 0	DEVICE
000229	0001	3039 \$IVMSK EQU 1	MASK
000230	0003	3040 \$IVP EQU 3	
000231	0004	3041 \$IVS EQU 4	
000232	0005	3042 \$IVREG EQU 5	START OF REGISTERS
000233	000B	3043 \$IVB1 EQU 11	
000234	000C	3044 \$IVI EQU 12	
000235	0013	3045 \$IVR1 EQU 19	
000236	0014	3046 \$IVM1 EQU 20	
000237	001B	3047 \$IVT EQU 27	

000238		3048 /EJECT	
000239		3049 *	
000240		3050 *TRAP SAVE AREA OFFSETS	
000241		3051 *	
000242	0000	3052 \$TSAL EQU 0	NEXT LINK
000243	0001	3053 \$TSAI EQU 1	INDICATOR REGISTER
000244	0002	3054 \$TSAR3 EQU 2	XR3
000245	0003	3055 \$TSACM EQU 3	COMMAND
000246	0004	3056 \$TSAZ EQU 4	Z-WORD
000247	0005	3057 \$TSA A EQU 5	ADDRESS
000248	0006	3058 \$TSAP EQU 6	P-REGISTER
000249	0001	3059 \$TSAPX EQU \$TSAP-\$TSA A	P-REG AS ADDRESSED BY TRAP ROUTINE
000250	0007	3060 \$TSAB3 EQU 7	XB3
000251	0003	3061 \$TSATM EQU 8-\$TSA A	TEMP WORD
000252	0008	3062 \$TSAWD EQU 8	FOR NON-TRAP ROUTINES, THE TEMP WORD
000253	0009	3063 \$TSALN EQU 9	LENGTH OF TRAP SAVE AREA
000254		3064 *	
000255		3065 *	
000256	6000	3066 \$SRGP3 EQU Z'6000'	SREGISTER PRIORITY 3
000257		3067 *	
000258		3068 *	
000259		3069 *LEVEL INSTRUCCION WORDS	
000260		3070 *	
000261	803F	3071 \$LVEXI EQU Z'803F'	SUSPEND, SCAN, AND DISPATCH
000262	4000	3072 \$LVSCH EQU Z'4000'	SCHEDULE INTERRUPT, DEFER
000263	8000	3073 \$LVEXE EQU Z'8000'	SUSPEND, SCAN, SCHEDULE, AND DISPATCH
000264	0000	3074 \$LVENT EQU Z'0000'	SCHEDULE, SCAN, DISPATCH (RETURN LATER)
000265	0080	3075 \$LVDIS EQU Z'0080'	INHIBIT
000266	8080	3076 \$LVDSX EQU Z'8080'	SUSPEND, INHIBIT
000267	0000	3077 \$LV DIE EQU \$LVENT+0	CRASH LEVEL INSTRUCTIONS DATA
000268		3078 *	
000269		3079 *MCDE REGISTER CONSTANTS	
000270		3080 *	
000271	8080	3081 \$M1JST EQU Z'8080'	SET JUMP TRACE
000272	8000	3082 \$M1JRS EQU Z'8000'	RESET JUMP TRACE
000273	0080	3083 \$M1JTS EQU Z'0080'	TEST JUMP TRACE

000274		3084 /EJECT	
000275		3085 *	
000276		3086 *ASSIGNED LEVELS	
000277		3087 *	
000278	0000	3088 ERRLEV EQU 0	POWER FAIL AND CRASH LEVEL
000279	0001	3089 WDTLEV EQU 1	WATCH DOG TIMER LEVEL
000280	0002	3090 TSOVLV EQU 2	TRAP SAVE AREA OVERFLOW AREA
000281	0003	3091 HANGLV EQU 3	STARTUP AND HANG LEVEL
000282	0004	3092 RTCLEV EQU 4	REAL TIME CLOCK LEVEL
000283	0005	3093 WATLEV EQU 5	WATCH COPY LEVEL
000284	0008	3094 MCPLEV EQU 8	ASYNCP MLCP LINE CARD
000285	000A	3095 SX25LV EQU 10	SYNCP MLCP LINE CARD (USING X25)
000286	0010	3096 CPLRLV EQU 16	COUPLER LEVELS (16,17,18,19)
000287	0030	3097 NETLEV EQU 48	X25 NETWORK PACKET LEVEL
000288	0031	3098 SBSCLV EQU 49	SYNCP MLCP LINE CARD (USING BSC)
000289	0036	3099 CNSLEV EQU 54	CONSOLE HARDWARE LEVEL (BASE FOR SOFTWARE)
000290	0037	3100 SYCLEV EQU CNSLEV+1	SYSTEMS CONTROL LEVEL
000291	0038	3101 MSGLEV EQU SYCLEV+1	SYSTEMS MESSAGES LEVEL
000292	003C	3102 DBGLEV EQU 60	DEBUGGER PRIMARY; SECONDARY=+1
000293	003E	3103 DEVLEV EQU 62	LOWEST LEVEL FOR INVERTED SYNCHRONIZATION
000294		3104 *	
000295	0078	3105 ONESEC EQU 120	CLOCK IS 120 TIMES PER SECOND (.0083333)

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000296      4000 /EJECT
000297      4010 *
000298      4020 *INPUT MESSAGE BUFFER DEFINITION
000299      4030 *
000300      4040 *FIRST BUFFER IN LINK WORD(0)
000301      0002 4050 CURBUF EQU 2          CURRENT BUFFER ADDRESS
000302      0003 4060 CURLEN EQU CURBUF+1      CURRENT LENGTH
000303      0004 4070 NSBERR EQU CURLEN+1      ERROR COUNTERS
000304      0005 4080 MFLAGS EQU NSBERR+1     INTERNAL TO MESSAGE FLAGS
000305      4090 *
000306      4100 *
000307      4110 *INTERNAL TO MESSAGE FLAGS (MFLAGS)
000308      4120 *
000309      8000 4130 LTLONG EQU Z'8000'      LINE IS CURRENTLY TOO LONG
000310      4000 4140 IFINAL EQU Z'4000'     FINAL DELIVERY
000311      2000 4150 TRPCLK EQU Z'2000'     FINAL DELIVERY TRAPS CLOCKING READ
000312      4160 *
000313      4170 *
000314      4180 *MESSAGE STYLE BLOCK DEFINITION
000315      4190 *
000316      0000 4200 FRSTCK EQU 0          FIRST CLOCK TO SET
000317      0001 4210 SCNDCK EQU FRSTCK+1     SECOND (SUBSEQUENT) CLOCK TO SET
000318      0002 4220 INPMAX EQU SCNDCK+1     MAX LINE LENGTH
000319      0003 4230 STYFGS EQU INPMAX+1     INPUT STYLE BITS
000320      4240 *
000321      4250 *
000322      4260 *DEFINITIONS OF INPUT STYPE BITS
000323      4270 *
000324      8000 4280 UNEDIT EQU Z'8000'     DATA SHOULD NOT BE EDITED
000325      4000 4290 IGNLTL EQU Z'4000'     LINE TOO LONGS ARE IGNORED (ELSE MSG ABORT)
000326      2000 4300 IGNSNB EQU Z'2000'     NO-STOP-BIT ERRORS ARE COUNTED AND FLAGGED
000327      1000 4310 ESCQTL EQU Z'1000'     ESCAPES DONE WITH NO MESSAGE
000328      0800 4320 ESCDTA EQU Z'0800'     ESCAPE IS DATA (ELSE IT IS LINE CANCEL)
000329      0400 4330 BKRDTA EQU Z'0400'     BACKARROW IS DATA (ELSE IT IS CHARACTER DELETE)
000330      0200 4340 IGNENQ EQU Z'0200'     ENQUIRY IS IGNORED (ELSE MSG GENERATED)
000331      0100 4350 IGNLFD EQU Z'0100'     LINE FEEDS IGNORED (ELSE TREATED AS DATA)
000332      0080 4360 IGNDL EQU Z'0080'     RUBOUTS ARE IGNORED (ELSE TREATED AS DATA)
000333      0040 4370 IGNULL EQU Z'0040'     NULLS ARE IGNORED (ELSE TREATED AS BREAK)
000334      4380 *****
000335      4390 *
000336      4400 *          STANDARD DEVICE TYPE ID'S
000337      4410 *
000338      4420 *****
000339      2408 4430 COUPID EQU Z'2408'     COUPLER DEVICE TYPE
000340      2010 4440 DISKID EQU Z'2010'     DIU 9101 DISKETTE
000341      2118 4450 ASYID EQU Z'2118'     ASYNCHRONOUS CHANN"EL ID FOR MLCP
000342      2158 4460 BISID EQU Z'2158'     BISYNC CHANN"EL ID FOR MLCP

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000343		5000 /EJECT	
000344		5010 *	
000345		5020 *COUPLER CONTROL BLOCK DEFINITIONS	
000346		5030 *	
000347		5040 *LEAVE ROOM FOR QUEUEING PRIORITY AND LINK	
000348	0002	5050 USERQ EQU 2	QUEUE OF USERS CONNECTED TO THIS COUPLER
000349	0005	5060 CPFLGS EQU USERQ+3	FLAGS CONTROLLING FLOW
000350	0006	5070 COUPST EQU CPFLGS+1	COUPLER I/O STATE
000351		5080 *	
000352	0007	5090 PSBCLK EQU COUPST+1	PLEASE STAND BY CLOCK
000353	0008	5100 PSBCNT EQU PSBCLK+1	PLEASE STAND BY COUNTER
000354	0009	5110 DEADCT EQU PSBCNT+1	DEAD CONNECTION COUNT
000355		5120 *	
000356	000A	5130 OMSGFB EQU DEADCT+1	FIRST BUFFER OF OUTPUT MESSAGES
000357	000B	5140 OMSGFP EQU OMSGFB+1	ASSOCIATED POINTER
000358	000C	5150 OMSGLB EQU OMSGFP+1	LAST BUFFER OF OUTPUT MESSAGES
000359	000D	5160 OMSGLP EQU OMSGLB+1	ASSOCIATED POINTER
000360	000E	5170 IMSGBP EQU OMSGLP+1	INPUT BUFFER PARSE POINTER
000361	000F	5180 IMSGCM EQU IMSGBP+1	INPUT COMMAND/LENGTH
000362	0010	5190 IMSGLN EQU IMSGCM+1	INPUT PORT(LINE)
000363	0011	5200 IMSGBK EQU IMSGLN+1	STARTING BLOCK OF MESSAGE
000364		5210 *	
000365	0012	5220 SPICMD EQU IMSGBK+1	SPECIAL INTERRUPT COMMAND
000366	0013	5230 TAL66 EQU SPICMD+1	H66 REQUESTED IO WORDS
000367	0014	5240 TAL6 EQU TAL66+1	LEVEL6 ALLOWED IO WORDS
000368	0015	5250 IOWDS EQU TAL6+1	ACTUAL NUMBER OF WORDS IO'ED
000369	0016	5260 L6BUFR EQU IOWDS+1	IO ADDRESS IN LEVEL6
000370	0017	5270 H66DTA EQU L6BUFR+1	IO ADDRESS IN HIS6600
000371	0019	5280 MBXLOC EQU H66DTA+2	LOCATION OF MAILBOX IN HIS6600
000372	001B	5290 MBXPKG EQU MBXLOC+2	CONTENTS OF HIS6600 MAILBOX
000373	0024	5300 STSLOC EQU MBXPKG+9	LOCATION OF STATUS IN HIS6600
000374	0026	5310 STATUS EQU STSLOC+2	CONTENTS OF STATUS WRITTEN TO HIS6600
000375	002B	5320 CIVDEV EQU STATUS+5	LAST DEV WORD FROM INTERRUPT
000376	002C	5330 LSTSTS EQU CIVDEV+1	LAST HARDWARE STATUS READ
000377	002E	5340 SPISTS EQU LSTSTS+2	SPURIOUS INTERRUPT STATUS
000378		5350 *	
000379	0030	5360 DCWLST EQU SPISTS+2	DCW LIST FOR IO OPERATIONS
000380		5370 *	
000381	003C	5380 CPLRBL EQU DCWLST+12	COUPLER BLOCK LENGTH
000382		5390 *	
000383		5400 *	
000384		5410 *DEFINITIONS OF COUPLER FLAGS	
000385		5420 *	
000386	8000	5430 IOBUSY EQU Z'8000'	BUSY DOING TERMINATE REQUIRED I/O
000387	4000	5440 BUFBSY EQU Z'4000'	BUFFER ACTIVE
000388	2000	5450 SLRDCK EQU Z'2000'	SLOW READS CLOCK RUNNING
000389		5460 *	
000390	0800	5470 RLDSET EQU Z'0800'	RELOAD AT EVERY REQUEST
000391	0400	5480 L6RSET EQU Z'0400'	LEVEL6 HAS RESET ALL USERS

000392		5490 /EJECT	
000393		5500 *	
000394		5510 *CONTROL INFORMATION FOR COUPLER	
000395		5520 *	
000396	0020	5530 L66RDC EQU Z'0020'	AGREED CONSTANT FOR READ
000397	0030	5540 L66WTC EQU Z'0030'	AGREED CONSTANT FOR WRITE
000398		5550 *	
000399	0004	5560 MBXWDS EQU 4	MBX IS 4 WORDS ON H66 SIDE
000400	0002	5570 STSWDS EQU 2	STATUS IS 2 WORDS ON H66 SIDE
000401	0200	5580 CPBFLN EQU 512	L6 LENGTH OF I/O BUFFER
000402		5590 *	
000403		5600 *	
000404		5610 *HIS6600 INTERRUPT CELLS	
000405		5620 *	
000406	0003	5630 H66TRM EQU 3	INITIATE/TERMINATE
000407	0007	5640 H66SPC EQU 7	SPECIAL
000408		5650 *	
000409	00C3	5660 INTH66 EQU Z'0003'+\$IOCH3	INTERRUPT HIS6600
000410		5670 *	
000411		5680 *	
000412		5690 *MISCELLANEOUS L6 IO INFORMATION	
000413		5700 *	
000414	0011	5720 COUPLSL EQU CPLRLV+1	SPECIAL INTERRUPT (FROM HIS6600)
000415	0012	5730 COUPTL EQU COUPLSL+1	TERMINATE INTERRUPT FOR L6 OPERATION
000416	0013	5740 COUPWL EQU COUPTL+1	SLAVE BUFFER PROCESSING LEVEL
000417		5750 *	
000418		5760 *DCW COMMANDS	
000419		5770 *	
000420	0038	5780 DWDSICI EQU Z'0038'	DISCONNECT AND INTERRUPT
000421	003D	5790 DW6T66 EQU Z'003D'	XFER L6 TO H66
000422	003E	5800 DW66T6 EQU Z'003E'	XFER H66 TO L6
000423	003C	5810 DWCNFG EQU Z'003C'	STORE CONFIGURATION STATUS
000424		5820 *	
000425	0018	5830 DCWLEN EQU 2*6*2	LENGTH OF OUR DCW LISTS
000426		5840 *	
000427		5850 *DATA TRANSFER MODES	
000428		5860 *	
000429	0001	5870 ASCMOD EQU Z'0001'	ASCII MODE
000430	0002	5880 BCDMOD EQU Z'0002'	BCD MODE
000431	0003	5890 BINMOD EQU Z'0003'	BINARY MODE
000432	0011	5900 TLAMOD EQU Z'0011'	TRANSLITERATION MODE A
000433	0021	5910 TLBMOD EQU Z'0021'	TRANSLITERATION MODE B
000434	0041	5920 MSBMOD EQU Z'0041'	ASCII MODE WITH MSB TEST
000435	0051	5930 TLCMOD EQU Z'0051'	TRANSLITERATION MODE A WITH MSB TEST
000436	0061	5940 TLDMOD EQU Z'0061'	TRANSLITERATION MODE B WITH MSB TEST

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000437
000438
000439
000440
000441
000442
000443
000444
000445

0000
0001
0002
0003
0004

5950 /EJECT
5960 *
5970 *PENDING STATES FOR COUPLER SOFTWARE
5980 *
5990 CIDLE EQU 0 IDLE
6000 MBXRD EQU 1 MBX READING STATE
6010 IOXFR EQU 2 IO TRANSFER STATE
6020 STSWT EQU 3 STATUS WRITE STATE
6030 CFGRD EQU 4 CONFIGURATION READ

000446
000447
000448
000449
000450
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000452
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000454
000455
000456
000457

000458

000459

000460

000461

000462

000463

000464

000465

000466

000467

000468

013A

0366

035F

0010

0014
0017

0020

0100

007F
007E
007D
007C
007B

007A
0079
0078
0077
0076

0075
0074
0073
0072
0071

0070
006F
006E
006D
006C

006B

10000 /EJECT ** DISKETTE BOOTSTRAP ROUTINE **
10010 *****
10020 * THE BOOTSTRAP STEPS ARE :
10030 * 1. READ TRACK 0, SECTORS 5-25 (TRAP ROUTINES, ETC...)
10040 * 2. READ TRACK 0, SECTORS 1-4 (TRAP VECTORS, 0-100 (16))
10050 * 3. READ TRACKS 1, ON
10060 * 4. CLIMB THROUGH LEVEL 4 VECTOR
10070 *****
10080 *
10090 *BOOTLOAD SOFTWARE AND LOW CORE DEFINITIONS
10100 *
10110 XDEF SERROR LEVEL WHERE CRASH OCCURRED

10120 XDEF MODULE LIST OF MODULE POINTERS

10130 XDEF TRAPER COMMON TRAP CATCH

10140 XDEF \$TSALS

10150 XDEF \$RTCLK,\$SWDTMR

10160 XDEF \$INTBT INTERRUPT SCHEDULE BITS

10170 XDEF \$BOOT

10180 XDEF \$TV01,\$TV02,\$TV03,\$TV04,\$TV05

10190 XDEF \$TV06,\$TV07,\$TV08,\$TV09,\$TV10

10200 XDEF \$TV11,\$TV12,\$TV13,\$TV14,\$TV15

10210 XDEF \$TV16,\$TV17,\$TV18,\$TV19,\$TV20

10220 XDEF \$TV21,\$TV22,\$TV23,\$TV24,\$TV25

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000469	006A 0069 0068 0067	10230 XDEF \$TV26,\$TV27,\$TV28,\$TV29,\$TV30
000470	0066 0065 0064 0063 0062	10240 XDEF \$TV31,\$TV32,\$TV33,\$TV34,\$TV35
000471	0061 0060 005F 005E 005D	10250 XDEF \$TV36,\$TV37,\$TV38,\$TV39,\$TV40
000472	005C 005B 005A 0059 0058	10260 XDEF \$TV41,\$TV42,\$TV43,\$TV44,\$TV45
000473	0057 0056 0055 0054 0053 0052	10270 XDEF \$TV46

000474		10280	/EJECT		
000475		10290	*		
000476		10300	* BOOTLOAD SOFTWARE AND LOW CORE DEFINITIONS		
000477		10310	*		
000478		10320	* DEFINITIONS		
000479	0068	10330	HEADRS EQU	104	NUMBER OF FORMAT BYTES/TRACK ON DIU9101
000480	0000	10340	ZERO EQU	0	
000481	0001	10350	ONE EQU	1	
000482	0002	10360	TWO EQU	2	
000483		10370	*		
000484		10380	* REGISTER DEFINITIONS		
000485	0020	10390	RANGE EQU	\$R2	NUMBER OF BYTES
000486	0020	10400	CHANEL EQU	\$R1	CHANNEL (WITH DIRECTION)
000487	0020	10410	TRACK EQU	\$R4	TRACK NUMBER
000488		10420	*		
000489	0020	10430	TRNS EQU	\$B6	SUBROUTINE RETURN REGISTER
000490	0020	10440	BASE EQU	\$B7	CURRENT SEGMENT BEGINNING
000491		10450	*		
000492		10460	* DISKETTE OPERATION CODES		
000493	0009	10470	O\$ADDR EQU	Z'0009'	MEMORY ADDRESS SET
000494	0000	10480	O\$RANG EQU	Z'0000'	SET TRANSFER LENGTH IN BYTES
000495	0011	10490	O\$CWA EQU	Z'0011'	SET TRACK&HEAD
000496	0013	10500	O\$CWB EQU	Z'0013'	SET SECTOR NUMBER
000497	0003	10510	O\$INTC EQU	Z'0003'	SET INTERRUPT CONTROL WORD
000498	0007	10520	O\$TASK EQU	Z'0007'	OUTPUT TASK REG (READ&WRITE)
000499	0001	10530	O\$CNTL EQU	Z'0001'	SET CONTROL WORD
000500		10540	*		
000501	000C	10550	I\$RANG EQU	Z'000C'	READ RANGE REG
000502	0010	10560	I\$CWA EQU	Z'0010'	READ TRACK&HEAD
000503	0012	10570	I\$CWB EQU	Z'0012'	READ SECTOR NUMBER
000504	0002	10580	I\$INTC EQU	Z'0002'	READ INTERRUPT CONTROL
000505	0026	10590	I\$DVID EQU	Z'0026'	GET DEVICE TYPE
000506	0006	10600	I\$TASK EQU	Z'0006'	READ TASK REG
000507	0018	10610	I\$STAT EQU	Z'0018'	GET STATUS
000508		10620	*		
000509		10630	* DEVICE ORDERS (DATA BUS COMMANDS)		
000510	0000	10640	ORCAL\$ EQU	Z'0000'	RECALIBRATE
000511	0100	10650	O\$EEK\$ EQU	Z'0100'	SEEK
000512	8000	10660	O\$FRMT\$ EQU	Z'8000'	FORMATTED WRITE
000513	8100	10670	ORW\$ EQU	Z'8100'	READ/WRITE DATA
000514	8500	10680	O\$DRW\$ EQU	Z'8500'	DELETED DATA READ/WRITE
000515	8300	10690	O\$DRW\$ EQU	Z'8300'	DIAGNOSTIC READ/WRITE
000516	C000	10700	O\$WRAP\$ EQU	Z'C000'	WRAPAROUND READ/WRITE
000517		10710	*		
000518		10720	*		
000519	0100	10730	U EQU	Z'0100'	UPPER HALF ADJUSTER
000520		10740	*		
000521		10750	*		
000522		10760	* DISKETTE DEFINITIONS		
000523	0000	10770	TRKSIZ EQU	26*128	BYTE PER TRACK
000524	0080	10780	SECSIZ EQU	128	BYTES PER SECTOR
000525	0280	10790	LOWSEC EQU	5*128	BYTES OF SHUFFLED LOW MEMORY

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000526
000527
000528
000529
000530

0080

000531

0100

000532

10800 /EJECT

10810 *

10820 *

10830

10840

XLOC

XDEF

ENDING

SIVECT

END OF CONGLOMERATION

10850

XDEF

START

BEGINNING MARKER

10860

XLOC

INIT

REAL SOFTWARE INIT

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000533 10870 /EJECT
000534 10880 *
000535 10890 *****
000536 10900 * THE FOLLOWING 'SURREALISTIC' TRAP VECTORS, ETC
000537 10910 * ARE DEFINED TO CORRECTLY SATISFY XDEF'S
000538 10920 * EXPECTED BY THE REST OF THE L6 SOFTWARE.
000539 10930 *****
000540 10940 *
000541 0000 0000 10950 RESV 16,Z'0000' 00X TO 0FX
000542 0010 02E1 10960 $TSALS DC <TSABK0 FIRST TRAP BLOCK (10X)
000543 0011 0000 10970 RESV 3,Z'0000' 11X TO 13X
000544 0014 0000 10980 $RTCLK RESV 3,Z'0000' REAL TIME CLOCK LOCATIONS
000545 0017 0000 10990 $WDTMR DC Z'0000' WATCH DOG TIMER
000546 0018 0000 11000 RESV 8,Z'0000' 18X THRU 1FX
000547 0020 0000 11010 $INTBT RESV 4,Z'0000' INTERRUPT SCHEDULE BITS
000548
000549
000549 11020 *
000550 11030 * TRAP VECTORS
000551 0024 0000 11040 *
000552 0052 02FE 11050 RESV 46,Z'0000' UNUSED PORTION OF SAF TRAP VECTOR
000553 0053 0300 11060 $TV46 DC <HLTP46 TRAP VECTOR 46
000554 0054 0302 11070 $TV45 DC <HLTP45 TRAP VECTOR 45
000555 0055 0304 11080 $TV44 DC <HLTP44 TRAP VECTOR 44
000556 0056 0306 11090 $TV43 DC <HLTP43 TRAP VECTOR 43
000557 0057 0308 11100 $TV42 DC <HLTP42 TRAP VECTOR 42
000558 0058 030A 11110 $TV41 DC <HLTP41 TRAP VECTOR 41
000559 0059 030C 11120 $TV40 DC <HLTP40 TRAP VECTOR 40
000560 005A 030E 11130 $TV39 DC <HLTP39 TRAP VECTOR 39
000561 005B 0310 11140 $TV38 DC <HLTP38 TRAP VECTOR 38
000562 005C 0312 11150 $TV37 DC <HLTP37 TRAP VECTOR 37
000563 005D 0314 11160 $TV36 DC <HLTP36 TRAP VECTOR 36
000564 005E 0316 11170 $TV35 DC <HLTP35 TRAP VECTOR 35
000565 005F 0318 11180 $TV34 DC <HLTP34 TRAP VECTOR 34
000566 0060 031A 11190 $TV33 DC <HLTP33 TRAP VECTOR 33
000567 0061 031C 11200 $TV32 DC <HLTP32 TRAP VECTOR 32
000568 0062 031E 11210 $TV31 DC <HLTP31 TRAP VECTOR 31
000569 0063 0320 11220 $TV30 DC <HLTP30 TRAP VECTOR 30
000570 0064 0322 11230 $TV29 DC <HLTP29 TRAP VECTOR 29
000571 0065 0324 11240 $TV28 DC <HLTP28 TRAP VECTOR 28
000572 0066 0326 11250 $TV27 DC <HLTP27 TRAP VECTOR 27
000573 0067 0328 11260 $TV26 DC <HLTP26 TRAP VECTOR 26
000574 0068 032A 11270 $TV25 DC <HLTP25 TRAP VECTOR 25
000575 0069 032C 11280 $TV24 DC <HLTP24 TRAP VECTOR 24
000576 006A 032E 11290 $TV23 DC <HLTP23 TRAP VECTOR 23
000577 006B 0330 11300 $TV22 DC <HLTP22 TRAP VECTOR 22
000578 006C 0332 11310 $TV21 DC <HLTP21 TRAP VECTOR 21
000579 006D 0334 11320 $TV20 DC <HLTP20 TRAP VECTOR 20
000580 006E 0336 11330 $TV19 DC <HLTP19 TRAP VECTOR 19
000581 006F 0338 11340 $TV18 DC <HLTP18 TRAP VECTOR 18
000582 0070 033A 11350 $TV17 DC <HLTP17 TRAP VECTOR 17
000583 0071 033C 11360 $TV16 DC <HLTP16 TRAP VECTOR 16
000584 0072 033E 11370 $TV15 DC <HLTP15 TRAP VECTOR 15
11380 $TV14 DC <HLTP14 TRAP VECTOR 14

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000585	0073	0340	11390	\$TV13	DC	<HLTP13	TRAP VECTOR 13
000586	0074	0342	11400	\$TV12	DC	<HLTP12	TRAP VECTOR 12
000587	0075	0344	11410	\$TV11	DC	<HLTP11	TRAP VECTOR 11
000588	0076	0346	11420	\$TV10	DC	<HLTP10	TRAP VECTOR 10
000589	0077	0348	11430	\$TV09	DC	<HLTP09	TRAP VECTOR 09
000590	0078	034A	11440	\$TV08	DC	<HLTP08	TRAP VECTOR 08
000591	0079	034C	11450	\$TV07	DC	<HLTP07	TRAP VECTOR 07
000592	007A	034E	11460	\$TV06	DC	<HLTP06	TRAP VECTOR 06
000593	007B	0350	11470	\$TV05	DC	<HLTP05	TRAP VECTOR 05
000594	007C	0352	11480	\$TV04	DC	<HLTP04	TRAP VECTOR 04
000595	007D	0354	11490	\$TV03	DC	<HLTP03	TRAP VECTOR 03
000596	007E	0356	11500	\$TV02	DC	<HLTP02	TRAP VECTOR 02
000597	007F	035C	11510	\$TV01	DC	<HLTP01	TRAP VECTOR 01
000598			11520	*			
000599			11530	*			
000600			11540	*	INTERRUPT VECTORS		
000601			11550	*			
000602		0080	11560	\$IVECT	EQU	\$	80X START OF INTERRUPT VECTOR
000603	0080	02CC	11570		DC	<ERRIV	LOCATION OF POWER FAIL/CRASH VECTOR
000604	0081	0000	11580		DC	Z'0000'	LOCATION OF WATCH DOG TIMER VECTOR
000605	0082	02B4	11590		DC	<TSOVIV	LOCATION OF TRAP SAVE AREA OVERFLOW VECTOR
000606	0083	0000	11600		DC	Z'0000'	HANG LEVEL
000607	0084	029C	11610		DC	<INITIV	INITIALIZATION THEN REAL TIME CLOCK
000608	0085	0000	11620		RESV	58,Z'0000'	INTERRUPT VECTORS 05 THRU 62 ARE PROGRAMMED
000609	008F	0284	11630		DC	<IDLEIV	LOCATION OF IV63 WHICH IS IDLE VECTOR
000610			11640	*			
000611	00C0	0000	11650		RESV	64,Z'0000'	UNUSED PORTION OF SAF INTERRUPT VECTOR

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000612 11660 /EJECT CODE STARTING POINT
000613 11670 *
000614 11680 *
000615 11690 * BOOTLOAD SOFTWARE (STARTS AT 0100X)
000616 11700 *
000617 11710 * REAL TIME CLOCK AND WATCH DOG TIMER ARE ASSUMED OFF AFTER BOOTLOAD
000618 11720 *
000619 11730 *
000620 11740 *****
000621 11750 * FIRST EXECUTION STEP -
000622 11760 * READ TRACK 0, SECTORS 5-25
000623 11770 * GETS THE TRAP ROUTINES, ETC...
000624 11780 * IN PARTICULAR, GETS REST OF BOOTSTRAP
000625 11790 START RESV 0 MARK START FOR DISKETTE WRITER
000626 11800 $BOOT RESV 0 START OF BOOTSTRAP
000627 0100 ABC0 0027 11810 LAB $B2,CMDLIS SET STANDARD COMMAND LIST PTR
000628 0102 4C00 11820 LDV TRACK,ZERO DO TRACK ZERO FIRST
000629 0103 A870 0A80 11830 LDR RANGE,=TRKSIZ-LOWSEC "DO ALL BUT FIRST FIVE SECTORS NOW
000630 0105 FB80 0480 11840 LAB BASE,<MORE2 SET HIGHER BASE
000631 0107 E3C0 0003 11850 LNJ TRNS,READ READ MOST OF TRACK 0
000632 0109 OF80 0240 11860 B <CONT TRICKY BOOTSTRAP TRANSFER

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000633			11870	/EJECT ** ROUTINE TO READ FROM DISKETTE **		
000634			11880	*****		
000635			11890	* READ ROUTINE USING REGISTERS FOR PARAMETERS		
000636			11900	* THE COMMAND LIST AND DATA LIST ARE		
000637			11910	* THE SAME LENGTH AND PRESET FOR A READ CHAIN		
000638			11920	* LENGTH, TRKNUM, & SECNUM ARE SET BY CALLER		
000639			11930	*****		
000640			11940	READ RESV 0		
000641			11950	*		
000642			11960	* ON INPUT		
000643			11970	* R1 = CHANNEL NUMBER		
000644			11980	* R2 = RANGE		
000645			11990	* R3 USED AS COMMAND LIST OFFSET		
000646			12000	* R4 = TRACK NUMBER		
000647			12010	* B7 = DATA LOCATION PTR		
000648			12020	* B6 = RETURN POINTER		
000649			12030	* B3 ==> DATA LIST POINTER		
000650			12040	* B2 ==> COMMAND LIST POINTER		
000651			12050	*		
000652		3F27	12060	BADSTS EQU Z'3F27'	BAD STATUS BITS	
000653		1616	12070	HALT EQU Z'1616'	BAD STATUS FLAG	
000654		003F	12080	MASK EQU Z'003F'	COMMAND MASK	
000655			12090	*		
000656	010B	AF00 012D	12100	STR RANGE,<LENGTH	SET RANGE REG	
000657	010D	FFC0 001E	12110	STB BASE,DATLOC	STUFF MEMORY ADDRESS	
000658	010F	C780 012E	12120	STH TRACK,<TRKNUM	STUFF TRACK NUMBER	
000659			12130	*		
000660	0111	BBCC 001A	12140	LAB \$B3,DATLIS	SET DATA LIST PTR AFRESH	
000661	0113	3C00	12150	LDV \$R3,ZERO	NOTHING DONE YET	
000662			12160	*		
000663			12170	IOLoop RESV 0		
000664	0114	3D08	12180	CMV \$R3,DATLEN	DONE YET?	
000665	0115	0980	12190	BNE >+\$A	NOPE	
000666	0116	8386	12200	JMP TRNS	YEP	
000667			12210	*		
000668			12220	\$A RESV 0		
000669	0117	E2FE	12230	LLH \$R6,\$B2,+\$R3	GET COMMAND	
000670	0118	D873	12240	LDR \$R5,+\$B3	GET DATA BUS INFO	
000671			12250	\$B RESV 0		
000672	0119	E451	12260	OR \$R6,=CHANEL	GET CHANNEL ALSO	
000673	011A	8055	12270	IO =\$R5,=\$R6		
	011B	0056				
000674			12280	*		
000675	011C	E570 003F	12290	AND \$R6,=MASK	ISOLATE COMMAND	
000676	011E	6D18	12300	CMV \$R6,I\$STAT	STATUS CHECK?	
000677	011F	09F5	12310	BNE >IOLoop	NOPE, DON'T WORRY 'BOUT IT	
000678			12320	*		
000679	0120	07F9	12330	BIOF >-\$B	AWAIT COMPLETION	
000680	0121	D570 3F27	12340	AND \$R5,=BADSTS	STATUS OK?	
000681	0123	5971	12350	BEZ \$R5,>IOLoop	SORIGHT	
000682			12360	*		
000683	0124	9870 1616	12370	LDR \$R1,=HALT	SET FLAG	

000684	0126	8E70 0000	12380	LEV	=\$LVDIE	PLAY TAPS
000685			12390	*		
000686			12400	CMDLIS	RESV	0
000687	0128	0900	12410	DC	0\$ADDR*U+0\$RANG	SET START & LENGTH
000688	0129	1113	12420	DC	0\$CWA*U+0\$CWB	SET SEEK & SECTOR
000689	012A	0718	12430	DC	0\$TASK*U+I\$STAT	SEEK & DESTROY
000690	012B	0718	12440	DC	0\$TASK*U+I\$STAT	READ TASK
000691			12450	*		
000692			12460	DATLIS	RESV	0
000693	012C	0000	12470	DATLOC	DC	0
000694	012D	0000	12480	LENGTH	DC	0
000695	012E	0000	12490	TRKNUM	DC	0
000696	012F	0500	12500	SECNUM	DC	LOWSEC/SECSIZ*U
000697	0130	0100	12510	DC	0SEEK\$	SEEK ORDER
000698	0131	0000	12520	DC	0	FOR STATUS
000699	0132	8100	12530	DC	ORW\$	READ DATA ORDER
000700	0133	0000	12540	DC	0	FOR STATUS
000701		0134	12550	DATEND	EQU	\$
000702		0008	12560	DATLEN	EQU	\$-DATLIS
000703			12570	*****		
000704			12580	*	HANDLE TSA AREA OVERFLOW	
000705			12590	TSAOVR	RESV	0
000706	0134	8C00 013A	12600	STS	<SERROR	SAVE CRASH LEVEL
000707	0136	8E70 0000	12610	LEV	=\$LVDIE	ADIOS
000708			12620	\$B	RESV	0
000709	0138	0000	12630	HLT		
000710	0139	0FFF	12640	B	>-\$B	
000711			12650	*		
000712	013A	0000	12660	SERROR	DC	Z'0000' LEVEL SAVIOR

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000713			12670 /	REGRETTABLE TRICKY, KLUDGE FOR BOOTSTRAPPING
000714	0140		12680	ORG \$BOOT+X'0040' SPACE FOR SECTOR SCHISM
000715		0140	12690 MORE	EQU \$ START OF BOOTSTRAP CONTINUATION
000716	0134		12700	ORG DATEND RESET PC FOR RESERVATION
000717	0134	0000	12710	RESV (MORE-DATEND),Z'0000' "SPACE FOR SECOND PART OF BOOTSTRAP
000718	0140		12720	ORG \$BOOT+X'0040' RESET PC FOR REAL

000719			12730 /EJECT			
000720			12740 *			
000721			12750 *	THE FOLLOWING REAL TRAP VECTORS,	ETC ARE PUT TO DISKETTE	
000722			12760 *	SECTORS 1-4 BUT READ INTO 0-FF		
000723			12770 *			
000724	0140	0000	12780	RESV	16,Z'0000'	OOX TO OFX
000725	0150	02E1	12790	TSALS	DC	<TSABKO
000726	0151	0000	12800	RESV	3,Z'0000'	FIRST TRAP BLOCK (10X)
000727	0154	0000	12810	RTCLK	RESV	11X TO 13X
000728	0157	0000	12820	WDTMR	DC	REAL TIME CLOCK LOCATIONS
000729	0158	0000	12830	RESV	8,Z'0000'	WATCH DOG TIMER
000730	0160	0000	12840	INTBT	RESV	18X THRU 1FX
000731			12850 *			INTERRUPT SCHEDULE BITS
000732			12860 *	TRAP VECTORS		
000733			12870 *			
000734	0164	0000	12880	RESV	46,Z'0000'	UNUSED PORTION OF SAF TRAP VECTOR
000735	0192	02FE	12890	TV46	DC	<HLTP46
000736	0193	0300	12900	TV45	DC	<HLTP45
000737	0194	0302	12910	TV44	DC	<HLTP44
000738	0195	0304	12920	TV43	DC	<HLTP43
000739	0196	0306	12930	TV42	DC	<HLTP42
000740	0197	0308	12940	TV41	DC	<HLTP41
000741	0198	030A	12950	TV40	DC	<HLTP40
000742	0199	030C	12960	TV39	DC	<HLTP39
000743	019A	030E	12970	TV38	DC	<HLTP38
000744	019B	0310	12980	TV37	DC	<HLTP37
000745	019C	0312	12990	TV36	DC	<HLTP36
000746	019D	0314	13000	TV35	DC	<HLTP35
000747	019E	0316	13010	TV34	DC	<HLTP34
000748	019F	0318	13020	TV33	DC	<HLTP33
000749	01A0	031A	13030	TV32	DC	<HLTP32
000750	01A1	031C	13040	TV31	DC	<HLTP31
000751	01A2	031E	13050	TV30	DC	<HLTP30
000752	01A3	0320	13060	TV29	DC	<HLTP29
000753	01A4	0322	13070	TV28	DC	<HLTP28
000754	01A5	0324	13080	TV27	DC	<HLTP27
000755	01A6	0326	13090	TV26	DC	<HLTP26
000756	01A7	0328	13100	TV25	DC	<HLTP25
000757	01A8	032A	13110	TV24	DC	<HLTP24
000758	01A9	032C	13120	TV23	DC	<HLTP23
000759	01AA	032E	13130	TV22	DC	<HLTP22
000760	01AB	0330	13140	TV21	DC	<HLTP21
000761	01AC	0332	13150	TV20	DC	<HLTP20
000762	01AD	0334	13160	TV19	DC	<HLTP19
000763	01AE	0336	13170	TV18	DC	<HLTP18
000764	01AF	0338	13180	TV17	DC	<HLTP17
000765	01B0	033A	13190	TV16	DC	<HLTP16
000766	01B1	033C	13200	TV15	DC	<HLTP15
000767	01B2	033E	13210	TV14	DC	<HLTP14
000768	01B3	0340	13220	TV13	DC	<HLTP13
000769	01B4	0342	13230	TV12	DC	<HLTP12
000770	01B5	0344	13240	TV11	DC	<HLTP11

000771	01B6	0346	13250	TV10	DC	<HLTP10	TRAP VECTOR 10
000772	01B7	0348	13260	TV09	DC	<HLTP09	TRAP VECTOR 09
000773	01B8	034A	13270	TV08	DC	<HLTP08	TRAP VECTOR 08
000774	01B9	034C	13280	TV07	DC	<HLTP07	TRAP VECTOR 07
000775	01BA	034E	13290	TV06	DC	<HLTP06	TRAP VECTOR 06
000776	01BB	0350	13300	TV05	DC	<HLTP05	TRAP VECTOR 05
000777	01BC	0352	13310	TV04	DC	<HLTP04	TRAP VECTOR 04
000778	01BD	0354	13320	TV03	DC	<HLTP03	TRAP VECTOR 03
000779	01BE	0356	13330	TV02	DC	<HLTP02	TRAP VECTOR 02
000780	01BF	035C	13340	TV01	DC	<HLTP01	TRAP VECTOR 01
000781			13350	*			
000782			13360	*			
000783			13370	*	INTERRUPT VECTORS		
000784			13380	*			
000785		01C0	13390	IVECT	EQU	\$	80 (16) START OF INTERRUPT VECTORS
000786	01C0	02CC	13400		DC	<ERRIV	LOCATION OF POWER FAIL/CRASH VECTOR
000787	01C1	0000	13410		DC	Z'0000'	LOCATION OF WATCH DOG TIMER VECTOR
000788	01C2	02B4	13420		DC	<TSOVIV	LOCATION OF TRAP SAVE AREA OVERFLOW VECTOR
000789	01C3	0000	13430		DC	Z'0000'	HANG LEVEL
000790	01C4	029C	13440		DC	<INITIV	INITIALIZATION THEN REAL TIME CLOCK
000791	01C5	0000	13450		RESV	58,Z'0000'	INTERRUPT VECTORS 05 THRU 62 ARE PROGRAMMED
000792	01FF	0284	13460		DC	<IDLEIV	LOCATION OF IV63 WHICH IS IDLE VECTOR
000793			13470	*			
000794	0200	0000	13480		RESV	64,Z'0000'	UNUSED PORTION OF SAF INTERRUPT VECTOR

000795				13490	/	REAL CODE LOADED AT LOCATION 'MORE'	
000796				13500	*****	*****	
000797				13510	*	CONTINUATION OF BOOTSTRAP	
000798				13520	*	1. READ TRACK 0, SECTORS 1-4 (TRAP VECTORS, ETC.)	
000799				13530	*	2. LOOP, READING TRACKS 1, ON TIL "ENDING"	
000800				13540	*	3. CLIMB TO LEVEL 4 FOR REGULAR INITIALIZATION	
000801				13550	*****	*****	
000802				13560		XLOC INITCP,RSTART	
000803				13570	CONT	RESV 0	SECONDARY BOOTSTRAPPING
E 000804			0480	13580	MORE2	EQU ALS(CONT,ONE)	BYTE IT!
000805	0240	F870	0100	13590		LDR \$R7,=ONE*U	START NOW WITH SECTOR =ONE*U
000806	0242	FF00	012F	13600		STR \$R7,<SECNUM	
000807	0244	A870	0200	13610		LDR RANGE,=LOWSEC-SECSIZ	"4 SECTORS
000808	0246	FCC0	0031	13620		LDB BASE,ZILCH	READ IV'S & TRAP VECTORS
000809	0248	9F40	004E	13630		STR CHANEL,L63\$R1	SAVE CHANNEL NUMBER FOR LOW LIFE
000810	024A	E380	010B	13640		LNJ TRNS,<READ	
000811	024C	8E70	803F	13650		LEV =\$LVEXI	CONTINUE ON A LOWER LEVEL
000812	024E	8380	0000	13660		JMP <RSTART	REBOOT SHTICK
000813				13670	*		
000814				13680	RESTOF	RESV 0	ENTRY FROM LEVEL 63 VECTOR
000815				13690	*		
000816	0250	ABC0	FED7	13700		LAB \$B2,CMDLIS	RESET COMMAND LIST PTR
000817	0252	8700	012F	13710		CL <SECNUM	SET NORMAL READ START AT SECTOR 0
000818	0254	A870	0D00	13720		LDR RANGE,=TRKSIZ	READ FULL TRACK
000819				13730	*		
000820	0256	F800	0277	13740		LDR \$R7,<ENDO	FIND #WORDS TOTAL
000821	0258	CB80	0100	13750		LAB \$B4,<\$BOOT	
000822	025A	CF80	0277	13760		STB \$B4,<ENDO	
000823	025C	F200	0277	13770		SUB \$R7,<ENDO	
000824				13780	*		
000825			0200	13790	ADJUST	EQU Z'0200'	ACCOUNT FOR 256 WORD HOLE
000826	025E	FBC7	0200	13800		LAB BASE,BASE,ADJUST	WITH TRACK 0 READING
000827				13810	*		
000828				13820	BTL00P	RESV 0	
000829	0260	F270	0680	13830		SUB \$R7,=TRKSIZ/2	COUNT DOWN WORDS TRANSMITTED
000830	0262	7A00		13840		BGZ \$R7,>+\$C	MORE TO BE DONE
000831				13850	*		
000832	0263	F870	2408	13860		LDR \$R7,=COUPID	FAKE OUT INITCP WITH R5 & R7
000833	0265	D870	0400	13870		LDR \$R5,=BTLDCH	INIT BOOTLOAD COUPLER
000834	0267	E380	0000	13880		LNJ TRNS,<INITCP	GO TO IT
000835				13890	*		WEIRDO DELAY LOOP TO PREVENT COUPLER I/O COLLISION
000836				13900	*		DONE BECAUSE HOST BOOT TIME LAG PREVENTS \$BOOT CLEAR SINCE
000837				13910	*		SOFTWARE IS NOT ALL PRESENT AT INITCP'S FIRST CALL
000838				13920	\$A	RESV 0	
000839	0269	89C7	0006	13930		CMZ \$B7.COUPST	IS COUPLER DONE JERKING OFF?
000840	026B	09FE		13940		BNE >-\$A	NOPE,CHECK AGAIN
000841				13950	*		
000842	026C	8740	FE93	13960		CL \$BOOT	MAKE LIKE HOST TCL & TELL INIT AL HERE
000843	026E	8E70	8004	13970		LEV =\$LVEXE+RTCLEV	GET ON WITH IT
000844				13980	*		
000845				13990	IDLE	RESV 0	
000846	0270	0000		14000		HLT	

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000847	0271	0FFF		14010	B	>IDLE	LOOP FOR IDLENESS
000848				14020	*		
000849				14030	SC	RESV	0
000850	0272	4E01		14040	ADV	TRACK,=ONE	NEXT TRACK
000851	0273	FBA7		14050	LAB	BASE,BASE,RANGE	ADVANCE TO NEXT
000852	0274	E380	010B	14060	LNJ	TRNS,<READ	READ NEXT TRACK
000853	0276	0FEA		14070	B	>BTLOOP	
000854				14080	*		
000855	0277	0000	X	14090	ENDC	DC	<ENDING
000856	0278	0000		14100	ZILCH	RESV	1,0

LET LINKER TELL US FINAL ADDRESS
ZERO BASING CELL

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000857
000858

0279
027D

000859 0279 0000
000860 027D 0000

14110 /EJECT
14120

XDEF DATE, TIME

14130 DATE
14140 TIME

RESV 4,Z'0000'
RESV 4,Z'0000'

000861			14150	/EJECT			
000862			14160	*			
000863			14170	* BOOTLOAD IDLE LEVEL			
000864			14180	*			
000865		FFFF	14190	\$ALL	EQU	Z'FFFF'	ISM1 CONTEXT ENTIRELY
000866		0284	14200	IDLEIV	EQU	\$+3	LEVEL ROUTINE WHEN WE ARE IDLE
000867	0281	0000	14210		RESV	3,Z'0000'	MMA,RFU,TSAP
000868	0284	0000	14220		DC	Z'0000'	DEV
000869	0285	FFFF	14230		DC	\$ALL	SAVE INDICATORS AND MODE 1
000870	0286	0000	14240		DC	Z'0000'	
000871	0287	0250	14250		DC	<REST OF	BOOTSTRAP CONTINUATION
000872	0288	6000	14260		DC	\$SRGP3	PRIORITY LEVEL
000873	0289	0000	14270		RESV	14,Z'0000'	ROOM FOR REGISTERS
000874	0297	0000 0000	14280	L63\$R1	RESV	2,Z'0000'	R1 = CHANNEL NUMBER
000875			14290	*			
000876			14300	* START OF EXEC INITIALIZATION LEVEL			
000877			14310	*			
000878		029C	14320	INITIV	EQU	\$+3	LEVEL ROUTINE WHEN WE START EXEC UP
000879	0299	0000	14330		RESV	3,Z'0000'	MMA,RFU,TSAP
000880	029C	0000	14340		DC	Z'0000'	DEV
000881	029D	FFFF	14350		DC	\$ALL	SAVE MODE REGISTER 1
000882	029E	0000	14360		DC	Z'0000'	
000883	029F	0000	14370		DC	<INIT	DISKETTE COPY ROUTINE
000884	02A0	6000	14380		DC	\$SRGP3	PRIORITY LEVEL
000885	02A1	0000	14390		RESV	16,Z'0000'	ROOM FOR REGISTERS
000886			14400	*			
000887			14410	* TRAP OVERFLOW INTERRUPT			
000888			14420	*			
000889		02B4	14430	T\$OVIV	EQU	\$+3	LEVEL ROUTINE WHEN WE ARE OVER TRAPPED
000890	02B1	0000	14440		RESV	3,Z'0000'	MMA,RFU,TSAP
000891	02B4	0000	14450		DC	Z'0000'	DEV
000892	02B5	FFFF	14460		DC	\$ALL	SAVE MODE REGISTER 1
000893	02B6	0000	14470		DC	Z'0000'	
000894	02B7	0134	14480		DC	<T\$A0VR	T\$A OVERFLOW HANDLER
000895	02B8	6000	14490		DC	\$SRGP3	PRIORITY LEVEL
000896	02B9	0000	14500		RESV	16,Z'0000'	ROOM FOR REGISTERS
000897			14510	*			
000898			14520	* POWER FAIL OR CRASH INTERRUPT			
000899			14530	*			
000900		02CC	14540	ERRIV	EQU	\$+3	LEVEL ROUTINE WHEN WE ARE IDLE
000901	02C9	0000	14550		RESV	3,Z'0000'	MMA,RFU,TSAP
000902	02CC	0000	14560		DC	Z'0000'	DEV
000903	02CD	FFFF	14570		DC	\$ALL	SAVE MODE REGISTER 1
000904	02CE	0000	14580		DC	Z'0000'	
000905	02CF	0000	14590		DC	Z'0000'	PREG PLUGGED WHEN WE LEFT LEVEL0
000906	02D0	6000	14600		DC	\$SRGP3	PRIORITY LEVEL
000907	02D1	0000	14610		RESV	16,Z'0000'	ROOM FOR REGISTERS

000908				14620 /EJECT			
000909				14630 *			
000910				14640 * TRAP HANDLING MECHANISMS			
000911				14650 *			
000912				14660 *			
000913				14670 * TRAP SAVE AREAS			
000914				14680 *			
000915	02E1	02EA		14690 TSABKO DC	<TSABK1	LINK TO SECOND	
000916	02E2	0000		14700 RESV	\$TSALN-1,Z'0000'	ROOM FOR REMAINDER OF TSA	
000917				14710 *			
000918	02EA	02F3		14720 TSABK1 DC	<TSABK2	LINK TO THIRD	
000919	02EB	0000		14730 RESV	\$TSALN-1,Z'0000'	ROOM FOR REMAINDER OF TSA	
000920				14740 *			
000921	02F3	0000		14750 TSABK2 DC	Z'0000'	ONLY HAVE 3 ACTIVE TSA'S	
000922	02F4	0000		14760 RESV	\$TSALN-1,Z'0000'	ROOM FOR REMAINDER OF TSA	
000923				14770 *			
000924				14780 * TRAP HANDLERS			
000925				14790 *			
000926	02FC	0F80	035D	14800 HLTRPX B	<HLTRAP	ALLOWS SHORT ADDRESS	
000927				14810 *			
000928	02FE	3C2E		14820 HLTP46 LDV	\$R3,Z'2E'	LOAD TRAP NUMBER	
000929	02FF	0FFD		14830 B	>HLTRPX	CRASH	
000930	0300	3C2D		14840 HLTP45 LDV	\$R3,Z'2D'	LOAD TRAP NUMBER	
000931	0301	0FFB		14850 B	>HLTRPX	CRASH	
000932	0302	3C2C		14860 HLTP44 LDV	\$R3,Z'2C'	LOAD TRAP NUMBER	
000933	0303	0FF9		14870 B	>HLTRPX	CRASH	
000934	0304	3C2B		14880 HLTP43 LDV	\$R3,Z'2B'	LOAD TRAP NUMBER	
000935	0305	0FF7		14890 B	>HLTRPX	CRASH	
000936	0306	3C2A		14900 HLTP42 LDV	\$R3,Z'2A'	LOAD TRAP NUMBER	
000937	0307	0FF5		14910 B	>HLTRPX	CRASH	
000938	0308	3C29		14920 HLTP41 LDV	\$R3,Z'29'	LOAD TRAP NUMBER	
000939	0309	0FF3		14930 B	>HLTRPX	CRASH	
000940	030A	3C28		14940 HLTP40 LDV	\$R3,Z'28'	LOAD TRAP NUMBER	
000941	030B	0FF1		14950 B	>HLTRPX	CRASH	
000942	030C	3C27		14960 HLTP39 LDV	\$R3,Z'27'	LOAD TRAP NUMBER	
000943	030D	0FEF		14970 B	>HLTRPX	CRASH	
000944	030E	3C26		14980 HLTP38 LDV	\$R3,Z'26'	LOAD TRAP NUMBER	
000945	030F	0FED		14990 B	>HLTRPX	CRASH	
000946	0310	3C25		15000 HLTP37 LDV	\$R3,Z'25'	LOAD TRAP NUMBER	
000947	0311	0FEB		15010 B	>HLTRPX	CRASH	
000948	0312	3C24		15020 HLTP36 LDV	\$R3,Z'24'	LOAD TRAP NUMBER	
000949	0313	0FE9		15030 B	>HLTRPX	CRASH	
000950	0314	3C23		15040 HLTP35 LDV	\$R3,Z'23'	LOAD TRAP NUMBER	
000951	0315	0FE7		15050 B	>HLTRPX	CRASH	
000952	0316	3C22		15060 HLTP34 LDV	\$R3,Z'22'	LOAD TRAP NUMBER	
000953	0317	0FE5		15070 B	>HLTRPX	CRASH	
000954	0318	3C21		15080 HLTP33 LDV	\$R3,Z'21'	LOAD TRAP NUMBER	
000955	0319	0FE3		15090 B	>HLTRPX	CRASH	
000956	031A	3C20		15100 HLTP32 LDV	\$R3,Z'20'	LOAD TRAP NUMBER	
000957	031B	0FE1		15110 B	>HLTRPX	CRASH	
000958	031C	3C1F		15120 HLTP31 LDV	\$R3,Z'1F'	LOAD TRAP NUMBER	
000959	031D	0FDF		15130 B	>HLTRPX	CRASH	

000960	031E	3C1E	15140	HLTP30	LDV	\$R3,Z'1E'	LOAD TRAP NUMBER
000961	031F	0FDD	15150		B	>HLTRPX	CRASH
000962	0320	3C1D	15160	HLTP29	LDV	\$R3,Z'1D'	LOAD TRAP NUMBER
000963	0321	0FDB	15170		B	>HLTRPX	CRASH
000964	0322	3C1C	15180	HLTP28	LDV	\$R3,Z'1C'	LOAD TRAP NUMBER
000965	0323	0FD9	15190		B	>HLTRPX	CRASH
000966	0324	3C1B	15200	HLTP27	LDV	\$R3,Z'1B'	LOAD TRAP NUMBER
000967	0325	0FD7	15210		B	>HLTRPX	CRASH
000968	0326	3C1A	15220	HLTP26	LDV	\$R3,Z'1A'	LOAD TRAP NUMBER
000969	0327	0FD5	15230		B	>HLTRPX	CRASH
000970	0328	3C19	15240	HLTP25	LDV	\$R3,Z'19'	LOAD TRAP NUMBER
000971	0329	0FD3	15250		B	>HLTRPX	CRASH
000972	032A	3C18	15260	HLTP24	LDV	\$R3,Z'18'	LOAD TRAP NUMBER
000973	032B	0FB2	15270		B	>HLTRAP	CRASH
000974	032C	3C17	15280	HLTP23	LDV	\$R3,Z'17'	LOAD TRAP NUMBER
000975	032D	0FB0	15290		B	>HLTRAP	CRASH
000976	032E	3C16	15300	HLTP22	LDV	\$R3,Z'16'	LOAD TRAP NUMBER
000977	032F	0FAE	15310		B	>HLTRAP	CRASH
000978	0330	3C15	15320	HLTP21	LDV	\$R3,Z'15'	LOAD TRAP NUMBER
000979	0331	0FAC	15330		B	>HLTRAP	CRASH
000980	0332	3C14	15340	HLTP20	LDV	\$R3,Z'14'	LOAD TRAP NUMBER
000981	0333	0FAA	15350		B	>HLTRAP	CRASH
000982	0334	3C13	15360	HLTP19	LDV	\$R3,Z'13'	LOAD TRAP NUMBER
000983	0335	0FA8	15370		B	>HLTRAP	CRASH
000984	0336	3C12	15380	HLTP18	LDV	\$R3,Z'12'	LOAD TRAP NUMBER
000985	0337	0FA6	15390		B	>HLTRAP	CRASH
000986	0338	3C11	15400	HLTP17	LDV	\$R3,Z'11'	LOAD TRAP NUMBER
000987	0339	0FA4	15410		B	>HLTRAP	CRASH
000988	033A	3C10	15420	HLTP16	LDV	\$R3,Z'10'	LOAD TRAP NUMBER
000989	033B	0FA2	15430		B	>HLTRAP	CRASH
000990	033C	3C0F	15440	HLTP15	LDV	\$R3,Z'0F'	LOAD TRAP NUMBER
000991	033D	0FA0	15450		B	>HLTRAP	CRASH
000992	033E	3C0E	15460	HLTP14	LDV	\$R3,Z'0E'	LOAD TRAP NUMBER
000993	033F	0F9E	15470		B	>HLTRAP	CRASH
000994	0340	3C0D	15480	HLTP13	LDV	\$R3,Z'0D'	LOAD TRAP NUMBER
000995	0341	0F9C	15490		B	>HLTRAP	CRASH
000996	0342	3C0C	15500	HLTP12	LDV	\$R3,Z'0C'	LOAD TRAP NUMBER
000997	0343	0F9A	15510		B	>HLTRAP	CRASH
000998	0344	3C0B	15520	HLTP11	LDV	\$R3,Z'0B'	LOAD TRAP NUMBER
000999	0345	0F98	15530		B	>HLTRAP	CRASH
001000	0346	3C0A	15540	HLTP10	LDV	\$R3,Z'0A'	LOAD TRAP NUMBER
001001	0347	0F96	15550		B	>HLTRAP	CRASH
001002	0348	3C09	15560	HLTP09	LDV	\$R3,Z'09'	LOAD TRAP NUMBER
001003	0349	0F94	15570		B	>HLTRAP	CRASH
001004	034A	3C08	15580	HLTP08	LDV	\$R3,Z'08'	LOAD TRAP NUMBER
001005	034B	0F92	15590		B	>HLTRAP	CRASH
001006	034C	3C07	15600	HLTP07	LDV	\$R3,Z'07'	LOAD TRAP NUMBER
001007	034D	0F90	15610		B	>HLTRAP	CRASH
001008	034E	3C06	15620	HLTP06	LDV	\$R3,Z'06'	LOAD TRAP NUMBER
001009	034F	0F8E	15630		B	>HLTRAP	CRASH
001010	0350	3C05	15640	HLTP05	LDV	\$R3,Z'05'	LOAD TRAP NUMBER
001011	0351	0F8C	15650		B	>HLTRAP	CRASH

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001012	0352	3C04	15660	HLTP04	LDV	\$R3,Z'04'	LOAD TRAP NUMBER
001013	0353	0F8A	15670		B	>HLTRAP	CRASH
001014	0354	3C03	15680	HLTP03	LDV	\$R3,Z'03'	LOAD TRAP NUMBER
001015	0355	0F88	15690		B	>HLTRAP	CRASH
001016	0356	3C02	15700	HLTP02	LDV	\$R3,Z'02'	LOAD TRAP NUMBER
001017	0357	9070 0080	15710		MTM	\$M1,=\$M1JTS	TEST JUMP BIT FIRST
001018	0359	9070 8000	15720		MTM	\$M1,=\$M1JRS	THEN RESET IT
001019	035B	0F82	15730		B	>HLTRAP	CRASH
001020	035C	3C01	15740	HLTP01	LDV	\$R3,Z'01'	LOAD TRAP NUMBER
001021			15750	*			
001022	035D	8388 035F	15760	HLTRAP	JMP	*<TRAPER	CALL TRAP SUBROUTINE
001023			15770	*			
001024	035F	0360	15780	TRAPER	DC	<TRPDIE	DIE IF WE WERENT EXPECTING FAULT
001025			15790	*			
001026	0360	8C00 013A	15800	TRPDIE	STS	<SERROR	SAVE LEVEL WHERE CRASH OCCURRED
001027	0362	8E70 0000	15810		LEV	=\$LVDIE	CRASH
001028			15820	\$B	RESV	0	
001029	0364	0000	15830		HLT		BETTER SAFE THAN SORRY
001030	0365	0FFF	15840		B	>-\$B	

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001031				15850	/EJECT
001032				15860	*
001033				15870	*MODULE POINTERS
001034				15880	*
001035				15890	XLOC \$CPLR,\$\$INIT,\$\$DBG1,\$\$DBG2
001036				15900	XLOC \$CCLK,\$\$MMRY,\$\$CONS,\$\$SYSC
001037				15910	XLOC \$\$FCP,\$\$MLCP,\$\$TASY,\$\$RASY
001038				15920	XLOC \$ASML,\$\$DEVC,\$\$ATTC,\$\$MSGD
001039				15930	XLOC \$MBIN,\$\$DASY,\$\$SYNC,\$\$SYNP
001040				15940	XLOC \$DVIN,\$\$TYMN,\$\$RJEN,\$\$MTRS
001041				15950	XLOC \$NETX,\$\$NDPT
001042				15960	*
001043	0366	0387		15970	MODULE DC <\$DBTL OURSELVES
001044	0367	0000	X	15980	DC <\$CPLR COUPLER
001045	0368	0000	X	15990	DC <\$CONS MULTIPOINT CONSOLE
001046	0369	0000	X	16000	DC <\$SYSC SYSTEMS CONSOLE INTERFACE
001047	036A	0000	X	16010	DC <\$DBG1 DEBUGGER PART 1
001048	036B	0000	X	16020	DC <\$DBG2 DEBUGGER PART 2
001049	036C	0000	X	16030	DC <\$CCLK CLOCK MANIPULATORS
001050	036D	0000	X	16040	DC <\$MMRY MEMORY MANAGEMENT
001051	036E	0000	X	16050	DC <\$INIT INITIALIZATION
001052	036F	0000	X	16060	DC <\$FCP SOFT SIDE OF COUPLER
001053	0370	0000	X	16070	DC <\$MLCP MLCP IO ROUTINES
001054	0371	0000	X	16080	DC <\$TASY ASYNCHRONOUS PROTOCOL OUTPUT (MLCP)
001055	0372	0000	X	16090	DC <\$RASY ASYNCHRONOUS PROTOCOL INPUT (MLCP)
001056	0373	0000	X	16100	DC <\$ASML ASYNCHRONOUS PROTOCOL DRIVER (L6)
001057	0374	0000	X	16110	DC <\$DEVC DEVICE INTERFACE
001058	0375	0000	X	16120	DC <\$DVIN DEVICE INPUT
001059	0376	0000	X	16130	DC <\$MSGD MESSAGES ROUTINES
001060	0377	0000	X	16140	DC <\$ATTC MAINFRAME ATTACHMENTS
001061	0378	0000	X	16150	DC <\$DASY DELAYS FOR ASYNCS
001062	0379	0000	X	16160	DC <\$MBIN MOTHER BOARD INIT ROUTINES
001063	037A	0000	X	16170	DC <\$SYNC SYNCHRONOUS PROTOCOL DRIVER (MLCP)
001064	037B	0000	X	16180	DC <\$SYNP SYNCHRONOUS PROTOCOL DRIVER (L6)
001065	037C	0000	X	16190	DC <\$TYMN TYMNET NETWORK CONTROL
001066	037D	0000	X	16200	DC <\$NETX PACKET NETWORK CONTROL
001067	037E	0000	X	16210	DC <\$RJEN REMOTE JOB ENTRY TERMINAL SUPPORT
001068	037F	0000	X	16220	DC <\$MTRS METERS, CONFIGURATIONS
001069	0380	0000	X	16230	DC <\$NDPT NODE POINT ROUTING
001070	0381	0000	X	16240	RESV 3,Z'0000' END OF TABLE AND 2 SPARES

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001071			99990 /EJECT
001072			99991 *
001073			99992 *FORCE ALL MODULES TO BE OMOD8 IN LENGTH
001074			99993 *
001075		0387	99994 E\$ENDR EQU \$-S\$DBTL+3
001076	0384	0000	99995 RESV ((E\$ENDR+7)/8)*8-E\$ENDR,Z'0000'
001077			99996 *
001078	0385	4442	99997 DC 'DBTL' MNEUMONIC NAME OF MODULE
	0386	544C	
001079	0387	0000	99998 E\$DBTL DC <S\$DBTL START OF ROUTINE
001080	0388		99999 END DBTL SOFTWARE

0001 ERR COUNT
02340 WORD SYMBOL TABLE

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N \$ASCN	92						
N \$ASCO	93						
N \$ASCP	94						
N \$ASCPL	115						
N \$ASCQ	95						
N \$ASCQM	125						
N \$ASCR	96						
\$ASCRO	130	131					
N \$ASCRP	113						
N \$ASCRS	144						
N \$ASCS	97						
N \$ASCSC	121						
N \$ASCSP	109						
N \$ASCT	98						
N \$ASCU	99						
N \$ASCUA	128						
N \$ASCV	100						
N \$ASCVT	140						
N \$ASCW	101						
\$ASCX	102	136					
N \$ASCY	103						
\$ASCZ	104	137					
M \$B	671						
M \$B	708						
M \$B	1028	679	710	1030			
\$B2	****	627	669	816			
\$B3	****	660	670				
\$B4	****	821	822				
\$B6	****	489					
\$B7	****	490	839				
\$BOOT	626	463	714	718	821	842	
\$C	849	830					
N \$CFGAI	23						
N \$CFGAO	24						
N \$CFGBI	25						
N \$CFGBO	26						
N \$CRLF	62						
N \$ICTLI	14						
N \$ICTLO	15						
N \$IDINP	30						
N \$INMBA	19						
N \$INMMA	20						
N \$INRNG	21						
\$INTBT	547	462					
\$IOCH0	8	33					
\$IOCH1	9	34					
N \$IOCH2	10						
\$IOCH3	11	409					
\$IOLD	32	33	34				
N \$IOLDI	33						
N \$IOLDO	34						
N \$ISTS1	28						

N \$ISTS2	29																			
N \$IVB1	233																			
N \$IVDEV	228																			
\$IVECT	602	530																		
N \$IVI	234																			
N \$IVLEV	226																			
N \$IVM1	236																			
N \$IVMSK	229																			
N \$IVP	230																			
N \$IVR1	235																			
N \$IVREG	232																			
N \$IVS	231																			
N \$IVT	237																			
N \$IVTSA	227																			
\$LVDIE	267	684	707	1027																
N \$LVDIS	265																			
N \$LVDSX	266																			
\$LVENT	264	267																		
\$LVEXE	263	843																		
\$LVEXI	261	811																		
N \$LVSCH	262																			
\$M1	****	1017	1018																	
N \$M1JRS	272																			
N \$M1JST	271																			
\$M1JTS	273	1017																		
\$MKB1	206	219																		
N \$MKB13	219																			
N \$MKB2	205																			
\$MKB3	204	221																		
\$MKB4	203	220																		
N \$MKB47	220																			
N \$MKB5	202																			
N \$MKB6	201																			
N \$MKB7	200																			
\$MKI	207	221																		
N \$MKM1	215																			
\$MKR1	214	217																		
N \$MKR13	217																			
N \$MKR2	213																			
\$MKR3	212	221																		
\$MKR4	211	218																		
N \$MKR47	218																			
N \$MKR5	210																			
N \$MKR6	209																			
N \$MKR7	208																			
N \$MKSTD	221																			
N \$OBCTL	22																			
N \$OCCTL	16																			
N \$OTCTL	13																			
\$R1	****	486	683																	
\$R2	****	485																		
\$R3	****	661	664	669	928	930	932	934	936	938	940	942	944	946	948	950	952	954	956	958

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N \$TV18	580					
N \$TV19	579					
N \$TV20	578					
\$TV21	577	468				
N \$TV22	576					
N \$TV23	575					
N \$TV24	574					
N \$TV25	573					
\$TV26	572	469				
N \$TV27	571					
N \$TV28	570					
N \$TV29	569					
N \$TV30	568					
\$TV31	567	470				
N \$TV32	566					
N \$TV33	565					
N \$TV34	564					
N \$TV35	563					
\$TV36	562	471				
N \$TV37	561					
N \$TV38	560					
N \$TV39	559					
N \$TV40	558					
\$TV41	557	472				
N \$TV42	556					
N \$TV43	555					
N \$TV44	554					
N \$TV45	553					
\$TV46	552	473				
\$WDTMR	545	461				
ADJUST	825	826				
N ASCMOD	429					
N ASYID	341					
BADSTS	652	680				
BASE	490	630	657	808	826	851
N BCDMOD	430					
N BINMOD	431					
N BISID	342					
N BKRDTA	329					
BTLDCH	39	833				
BTLOOP	828	853				
N BUFBSY	387					
N CFGRD	445					
CHANEL	486	672	809			
N CIDLE	441					
CIVDEV	375	376				
CMDLIS	686	627	816			
CNSLEV	289	290				
CONT	803	632	804			
COUPID	339	832				
COUPL	414	415				
COUPST	350	352	839			

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COUPTL	415	416	
N COUPWL	416		
N CPBFLN	401		
CPFLGS	349	350	
N CPLRBL	381		
CPLRLV	286	414	
N CPUOCH	38		
CURBUF	301	302	
CURLN	302	303	
DATE	859	858	
DATEND	701	716	717
DATLEN	702	664	
DATLIS	692	660	702
DATLOC	693	657	
N DBGLEV	292		
N DCWLEN	425		
DCWLST	379	381	
DEADCT	354	356	
N DEVLEV	293		
N DISKID	340		
N DW66T6	422		
N DW6T66	421		
N DWCNFG	423		
N DWDSKI	420		
E\$ASML	1038	1056	
E\$ATTC	1038	1060	
E\$CLOK	1036	1049	
E\$CONS	1036	1045	
E\$CPLR	1035	1044	
E\$DASY	1039	1061	
E\$DBG1	1035	1047	
E\$DBG2	1035	1048	
E\$DBTL	1079	2	1043
E\$DEVC	1038	1057	
E\$DVIN	1040	1058	
E\$ENDR	1075	1076	
E\$INIT	1035	1051	
E\$MBIN	1039	1062	
E\$MLCP	1037	1053	
E\$MMRY	1036	1050	
E\$MSGD	1038	1059	
E\$MTRS	1040	1068	
E\$NDPT	1041	1069	
E\$NETX	1041	1066	
E\$RASY	1037	1055	
E\$RJEN	1040	1067	
E\$SFCP	1037	1052	
E\$SYNC	1039	1063	
E\$SYNP	1039	1064	
E\$SYSC	1036	1046	
E\$TASY	1037	1054	
E\$TYMN	1040	1065	

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ENDING	529	855		
ENDO	855	820	822	823
ERRIV	900	603	786	
N ERRLEV	278			
N ESCDTA	328			
N ESCQTL	327			
N FPTR	45			
FRSTCK	316	317		
H66DTA	370	371		
N H66SPC	407			
N H66TRM	406			
HALT	653	683		
N HANGLV	281			
N HEADRS	479			
HLTP01	1020	597	780	
HLTP02	1016	596	779	
HLTP03	1014	595	778	
HLTP04	1012	594	777	
HLTP05	1010	593	776	
HLTP06	1008	592	775	
HLTP07	1006	591	774	
HLTP08	1004	590	773	
HLTP09	1002	589	772	
HLTP10	1000	588	771	
HLTP11	998	587	770	
HLTP12	996	586	769	
HLTP13	994	585	768	
HLTP14	992	584	767	
HLTP15	990	583	766	
HLTP16	988	582	765	
HLTP17	986	581	764	
HLTP18	984	580	763	
HLTP19	982	579	762	
HLTP20	980	578	761	
HLTP21	978	577	760	
HLTP22	976	576	759	
HLTP23	974	575	758	
HLTP24	972	574	757	
HLTP25	970	573	756	
HLTP26	968	572	755	
HLTP27	966	571	754	
HLTP28	964	570	753	
HLTP29	962	569	752	
HLTP30	960	568	751	
HLTP31	958	567	750	
HLTP32	956	566	749	
HLTP33	954	565	748	
HLTP34	952	564	747	
HLTP35	950	563	746	
HLTP36	948	562	745	
HLTP37	946	561	744	
HLTP38	944	560	743	

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LSTSTS	376	377				
N LTLONG	309					
MASK	654	675				
MBXLOC	371	372				
MBXPKG	372	373				
N MBXRD	442					
N MBXWDS	399					
N MCPLEV	284					
N MFLAGS	304					
MODULE	1043	458				
MORE	715	717				
MORE2	804	630				
N MSBMOD	434					
N MSGLEV	291					
N NETLEV	287					
NSBERR	303	304				
OSADDR	493	687				
N OSCNTL	499					
OSCWA	495	688				
N OSCWB	496					
N OSINTC	497					
OSRANG	494	687				
OSTASK	498	689	690			
N ODDRWS	514					
N ODRWS	515					
N OFRMTS	512					
OMSGFB	356	357				
OMSGFP	357	358				
OMSGLB	358	359				
OMSGLP	359	360				
ONE	481	804	805	850		
N ONESEC	295					
N ORCAL\$	510					
ORW\$	513	699				
OSEEK\$	511	697				
N OWRAP\$	516					
PSBCLK	352	353				
PSBCNT	353	354				
RANGE	485	629	656	807	818	851
READ	640	631	810	852		
RESTOF	814	871				
N RLDSET	390					
RSTART	802	812				
RTCLEV	282	843				
N RTCLK	727					
N RWORD	52					
S\$DBTL	3	1075	1079			
N SBSCLV	288					
SCNDCK	317	318				
SECNUM	696	806	817			
SECSIZ	524	696	807			
SERROR	712	457	706	1026		

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TSAOVR	705	894					
TSOVIV	889	605	788				
N TSOVLV	280						
N TV01	780						
N TV02	779						
N TV03	778						
N TV04	777						
N TV05	776						
N TV06	775						
N TV07	774						
N TV08	773						
N TV09	772						
N TV10	771						
N TV11	770						
N TV12	769						
N TV13	768						
N TV14	767						
N TV15	766						
N TV16	765						
N TV17	764						
N TV18	763						
N TV19	762						
N TV20	761						
N TV21	760						
N TV22	759						
N TV23	758						
N TV24	757						
N TV25	756						
N TV26	755						
N TV27	754						
N TV28	753						
N TV29	752						
N TV30	751						
N TV31	750						
N TV32	749						
N TV33	748						
N TV34	747						
N TV35	746						
N TV36	745						
N TV37	744						
N TV38	743						
N TV39	742						
N TV40	741						
N TV41	740						
N TV42	739						
N TV43	738						
N TV44	737						
N TV45	736						
N TV46	735						
N TWO	482						
U	519	687	688	689	690	696	805
N UNEDIT	324						

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USERQ	348	349	
N USRDTA	48		
N UWORD	51		
N WATLEV	283		
N WDTLEV	279		
N WDTMR	728		
ZERO	480	628	661
ZILCH	856	808	
562 LABELS			
491 REFERENCES			
1080 RECORDS			
0 U FLAGS			
5 M FLAGS			
332 N FLAGS			
3342 WORD CROSS REFERENCE TABLE			

