



BILD

SOFTWARE

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DTSS L-6 HOST RESIDENT FACILITY PAGE 0001

000001

000002

000003

03CF

0000

2 TITLE BILD SOFTWARE

4 XDEF E\$BILD NEEDED FOR MODULE MAP

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

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 BTLDC 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'D100'+\$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 \$ASCGR EQU 29	GROUP SEPERATOR
000144	001E	2091 \$ASCRR 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 \$SMAX 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\$DL0 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 \$TSAA EQU 5	ADDRESS
000248	0006	3058 \$TSAP EQU 6	P-REGISTER
000249	0001	3059 \$TSAPX EQU \$TSAP-\$TSAA	P-REG AS ADDRESSED BY TRAP ROUTINE
000250	0007	3060 \$TSAB3 EQU 7	XB3
000251	0003	3061 \$TSATM EQU 8-\$TSAA	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 *MODE 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 IGNSB 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 DWDSCI 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 10000 /EJECT ** STAND ALONE L6 DISKETTE WRITER **
000447 10010 *****
000448 10020 * THIS PROGRAM DOES THE FOLLOWING:
000449 10030 * 1. SEND FAKE GOOD STATUS TO MAINFRAME UPON COUPLER T.I.
000450 10040 * 2. WHEN $BOOT=0, START WRITING TO DISKETTE
000451 10050 * A. START AT LOCATION DEFINED BY ADJUST (KLUDGE)
000452 10060 * B. STOP AT "ENDING", WHICH IS XLOC FROM BOUND UNIT BUILD
000453 10070 * 3. HALT WHEN LAST TRACK WRITTEN
000454 10080 * NOTE -- DISKETTES FORMATTED THEN WRITTEN A TRACK AT A TIME
000455 10090 *****
000456 10100 *
000457 10110 * BOOTLOAD SOFTWARE AND LOW CORE DEFINITIONS
000458 10120 *
000459 10130 * DEFINITIONS
000460 0068 10140 HEADRS EQU 104 NUMBER OF FORMAT BYTES/TRACK ON DIU9101
000461 0000 10150 TRKSIZ EQU 26*128 BYTES/TRACK
000462 0000 10160 ZERO EQU 0
000463 0001 10170 ONE EQU 1
000464 0002 10180 TWO EQU 2
000465 10190 *
000466 10200 * REGISTER DEFINITIONS
000467 0020 10210 RANGE EQU $R1 NUMBER OF BYTES
000468 0020 10220 CHANEL EQU $R5 CHANNEL (WITH DIRECTION)
000469 0020 10230 TRACK EQU $R7 TRACK NUMBER
000470 10240 *
000471 0020 10250 TRNS EQU $B6 SUBROUTINE RETURN REGISTER
000472 0020 10260 BASE EQU $B7 CURRENT SEGMENT BEGINNING
000473 10270 *
000474 10280 * DISKETTE OPERATION CODES
000475 0009 10290 O$ADDR EQU Z'0009' MEMORY ADDRESS SET
000476 0000 10300 O$RANG EQU Z'0000' SET TRANSFER LENGTH IN BYTES
000477 0011 10310 O$CWA EQU Z'0011' SET TRACK&HEAD
000478 0013 10320 O$CWB EQU Z'0013' SET SECTOR NUMBER
000479 0003 10330 O$INTC EQU Z'0003' SET INTERRUPT CONTROL WORD
000480 0007 10340 O$TASK EQU Z'0007' OUTPUT TASK REG (READ&WRITE)
000481 0001 10350 O$CNTL EQU Z'0001' SET CONTROL WORD
000482 10360 *
000483 000C 10370 I$RANG EQU Z'000C' READ RANGE REG
000484 0010 10380 I$CWA EQU Z'0010' READ TRACK&HEAD
000485 0012 10390 I$CWB EQU Z'0012' READ SECTOR NUMBER
000486 0002 10400 I$INTC EQU Z'0002' READ INTERRUPT CONTROL
000487 0026 10410 I$DVID EQU Z'0026' GET DEVICE TYPE
000488 0006 10420 I$TASK EQU Z'0006' READ TASK REG
000489 0018 10430 I$STAT EQU Z'0018' GET STATUS
000490 10440 *
000491 10450 * DEVICE ORDERS (DATA BUS COMMANDS)
000492 0000 10460 ORCAL$ EQU Z'0000' RECALIBRATE
000493 0100 10470 O$EEK$ EQU Z'0100' SEEK
000494 8000 10480 O$FRMT$ EQU Z'8000' FORMATTED WRITE
000495 8100 10490 O$RW$ EQU Z'8100' READ/WRITE DATA
000496 8500 10500 O$DRW$ EQU Z'8500' DELETED DATA READ/WRITE
000497 8300 10510 O$DRW$ EQU Z'8300' DIAGNOSTIC READ/WRITE

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000498  
000499  
000500  
000501  
000502  
000503  
000504

C000  
  
0100

10520 OWRAP\$ EQU Z'C000'  
10530 \*  
10540 \*  
10550 U EQU Z'0100'  
10560 \*  
10570 \*  
10580 \*

WRAPAROUND READ/WRITE

UPPER HALF ADJUSTER

000505			10590	/EJECT			
000506			10600	*			
000507			10610	* THIS IS THE AREA WHERE WE DEFINE ALL APPROPRIATE LOW CORE WORDS			
000508			10620	*			
000509	0000	0000	10630	RESV	16,Z'0000'	00X TO 0FX	
000510	0010	01A4	10640	\$TSALS	DC	<TSABK0	FIRST TRAP BLOCK (10X)
000511	0011	0000	10650	RESV	3,Z'0000'	11X TO 13X	
000512	0014	0000	10660	\$RTCLK	RESV	3,Z'0000'	REAL TIME CLOCK LOCATIONS
000513	0017	0000	10670	\$WDTMR	DC	Z'0000'	WATCH DOG TIMER
000514	0018	0000	10680	RESV	8,Z'0000'	18X THRU 1FX	
000515	0020	0000	10690	\$INTBT	RESV	4,Z'0000'	INTERRUPT SCHEDULE BITS
000516			10700	*			
000517			10710	* TRAP VECTORS			
000518			10720	*			
000519	0024	0000	10730	RESV	46,Z'0000'	UNUSED PORTION OF SAF TRAP VECTOR	
000520	0052	01C1	10740	\$TV46	DC	<HLTP46	TRAP VECTOR 46
000521	0053	01C3	10750	\$TV45	DC	<HLTP45	TRAP VECTOR 45
000522	0054	01C5	10760	\$TV44	DC	<HLTP44	TRAP VECTOR 44
000523	0055	01C7	10770	\$TV43	DC	<HLTP43	TRAP VECTOR 43
000524	0056	01C9	10780	\$TV42	DC	<HLTP42	TRAP VECTOR 42
000525	0057	01CB	10790	\$TV41	DC	<HLTP41	TRAP VECTOR 41
000526	0058	01CD	10800	\$TV40	DC	<HLTP40	TRAP VECTOR 40
000527	0059	01CF	10810	\$TV39	DC	<HLTP39	TRAP VECTOR 39
000528	005A	01D1	10820	\$TV38	DC	<HLTP38	TRAP VECTOR 38
000529	005B	01D3	10830	\$TV37	DC	<HLTP37	TRAP VECTOR 37
000530	005C	01D5	10840	\$TV36	DC	<HLTP36	TRAP VECTOR 36
000531	005D	01D7	10850	\$TV35	DC	<HLTP35	TRAP VECTOR 35
000532	005E	01D9	10860	\$TV34	DC	<HLTP34	TRAP VECTOR 34
000533	005F	01DB	10870	\$TV33	DC	<HLTP33	TRAP VECTOR 33
000534	0060	01DD	10880	\$TV32	DC	<HLTP32	TRAP VECTOR 32
000535	0061	01DF	10890	\$TV31	DC	<HLTP31	TRAP VECTOR 31
000536	0062	01E1	10900	\$TV30	DC	<HLTP30	TRAP VECTOR 30
000537	0063	01E3	10910	\$TV29	DC	<HLTP29	TRAP VECTOR 29
000538	0064	01E5	10920	\$TV28	DC	<HLTP28	TRAP VECTOR 28
000539	0065	01E7	10930	\$TV27	DC	<HLTP27	TRAP VECTOR 27
000540	0066	01E9	10940	\$TV26	DC	<HLTP26	TRAP VECTOR 26
000541	0067	01EB	10950	\$TV25	DC	<HLTP25	TRAP VECTOR 25
000542	0068	01ED	10960	\$TV24	DC	<HLTP24	TRAP VECTOR 24
000543	0069	01EF	10970	\$TV23	DC	<HLTP23	TRAP VECTOR 23
000544	006A	01F1	10980	\$TV22	DC	<HLTP22	TRAP VECTOR 22
000545	006B	01F3	10990	\$TV21	DC	<HLTP21	TRAP VECTOR 21
000546	006C	01F5	11000	\$TV20	DC	<HLTP20	TRAP VECTOR 20
000547	006D	01F7	11010	\$TV19	DC	<HLTP19	TRAP VECTOR 19
000548	006E	01F9	11020	\$TV18	DC	<HLTP18	TRAP VECTOR 18
000549	006F	01FB	11030	\$TV17	DC	<HLTP17	TRAP VECTOR 17
000550	0070	01FD	11040	\$TV16	DC	<HLTP16	TRAP VECTOR 16
000551	0071	01FF	11050	\$TV15	DC	<HLTP15	TRAP VECTOR 15
000552	0072	0201	11060	\$TV14	DC	<HLTP14	TRAP VECTOR 14
000553	0073	0203	11070	\$TV13	DC	<HLTP13	TRAP VECTOR 13
000554	0074	0205	11080	\$TV12	DC	<HLTP12	TRAP VECTOR 12
000555	0075	0207	11090	\$TV11	DC	<HLTP11	TRAP VECTOR 11
000556	0076	0209	11100	\$TV10	DC	<HLTP10	TRAP VECTOR 10



000557	0077	0208	11110	\$TV09	DC	<HLTP09	TRAP VECTOR 09
000558	0078	020D	11120	\$TV08	DC	<HLTP08	TRAP VECTOR 08
000559	0079	020F	11130	\$TV07	DC	<HLTP07	TRAP VECTOR 07
000560	007A	0211	11140	\$TV06	DC	<HLTP06	TRAP VECTOR 06
000561	007B	0213	11150	\$TV05	DC	<HLTP05	TRAP VECTOR 05
000562	007C	0215	11160	\$TV04	DC	<HLTP04	TRAP VECTOR 04
000563	007D	0217	11170	\$TV03	DC	<HLTP03	TRAP VECTOR 03
000564	007E	0219	11180	\$TV02	DC	<HLTP02	TRAP VECTOR 02
000565	007F	021F	11190	\$TV01	DC	<HLTP01	TRAP VECTOR 01
000566			11200	*			
000567			11210	*			
000568			11220	*	INTERRUPT VECTORS		
000569			11230	*			
000570		0080	11240	\$IVECT	EQU	\$	80X START OF INTERRUPT VECTOR
000571	0080	0172	11250		DC	<ERRIV	LOCATION OF POWER FAIL/CRASH VECTOR
000572	0081	0000	11260		DC	Z'0000'	LOCATION OF WATCH DOG TIMER VECTOR
000573	0082	015A	11270		DC	<TSOVIV	LOCATION OF TRAP SAVE AREA OVERFLOW VECTOR
000574	0083	0000	11280		DC	Z'0000'	HANG LEVEL
000575	0084	0142	11290		DC	<INITIV	INITIALIZATION THEN REAL TIME CLOCK
000576	0085	0000	11300		RESV	13,Z'0000'	INTERRUPT VECTORS 5 TO 17
000577	0092	018A	11310		DC	<TERMIV	COUPLER TERMINATE INTERRUPT VECTOR
000578	0093	0000	11320		RESV	44,Z'0000'	
000579	00BF	012A	11330		DC	<IDLEIV	LOCATION OF IV63 WHICH IS IDLE VECTOR
000580			11340	*			
000581	00C0	0000	11350		RESV	64,Z'0000'	UNUSED PORTION OF SAF INTERRUPT VECTOR

000582				11360	/EJECT			
000583				11370	*			
000584				11380	*			
000585				11390		XLOC	ENDING	END OF CONGLOMERATION
000586				11400	*			
000587				11410	*			
000588				11420	*	BOOTLOAD SOFTWARE (STARTS AT 0100X)		
000589				11430	*			
000590				11440	*	REAL TIME CLOCK AND WATCH DOG TIMER ARE ASSUMED OFF AFTER BOOTLOAD		
000591				11450	*			
000592				11460	*			
000593	0100	8380	010A	11470	\$BOOT	JMP	<GOBOOT	START AND HANG AND TIME AND DATE
000594	0102		0000	11480	DATIME	RESV	8,2'0000'	ROOM FOR DATE & TIME
000595				11490	*			
000596				11500	GOBOOT	RESV	0	
000597	010A	8E70	4012	11510		LEV	=\$LVSCH+COUPTL	INIT COUPLER LEVEL P-REG
000598	010C	8E70	803F	11520		LEV	=\$LVEXI	START BOOTLOAD INTERRUPT HANDLING
000599				11530	\$A	RESV	0	
000600	010E	0000		11540		HLT		
000601	010F	0FFF	T	11550		B	>-\$A	WAIT
000602				11560	*			
000603				11570	*	FIND COUPLER ON BOOTLOAD CHANNEL		
000604				11580	*			
000605			1400	11590	ALTBT	EQU	Z'1400'	ALTERNATE BOOTLOAD CHANNEL
000606				11600	BOOTIT	RESV	0	
000607	0110	D870	0400	11610		LDR	CHANNEL,=BTLDCH	GET BOOTLOAD CHANNEL NUMBER
000608	0112	DF40	0012	11620		STR	CHANNEL,CPLRCH	SAVE IT FOR LATER
000609	0114	E380	0227	11630		LNJ	TRNS,<INITCP	SET UP COUPLER
000610	0116	E380	0331	11640		LNJ	TRNS,<FINDSC	FIND FIRST DIU9101 DISKETTE
000611				11650	*****	LEAVE R5 SACRED WITH CHANNEL NUMBER & OUTPUT DIRECTION		
000612	0118	0F85		11660		B	>BTWAIT	WAIT FER SUMPIN'
000613				11670	*			
000614				11680	DEATH	RESV	0	
000615	0119	8C00	019F	11690		STS	<SERROR	SAVE CRASH LEVEL
000616	011B	8E70	0000	11700		LEV	=\$LVDIE	CRASH
000617				11710	*			
000618	011D	8980	0100	11720	BTWAIT	CMZ	<\$BOOT	WAIT FOR LOADER TO CHANGE THIS PAIR
000619	011F	09FE		11730		BNE	>BTWAIT	
000620	0120	8E70	0004	11740		LEV	=\$LVENT+RTCLEV	ENTER INITIALIZATION LEVEL
000621				11750	*			
000622	0122	0000		11760	IDLE	HLT		IDLE LEVEL WILL COME HERE
000623	0123	0FFF		11770		B	>IDLE	LOOP ON MANUAL RESTART
000624				11780	*			
000625	0124	0000		11790	DIF	RESV	1,0	WORK CELL FOR RANGE CALCULATION
000626	0125	0000		11800	CPLRCH	RESV	1,0	COUPLER CHANNEL STORAGE
000627	0126	0000		11810	DISKCH	RESV	1,0	DISKETTE CHANNEL NUMBER STORAGE

000628			11820	/EJECT	** RESERVATION OF INTERRUPT SAVE AREAS **	
000629			11830	*		
000630			11840	*	BOOTLOAD IDLE LEVEL	
000631			11850	*		
000632		FFFF	11860	\$ALL	EQU	Z'FFFF'
000633		012A	11870	IDLEIV	EQU	\$+3
000634	0127	0000	11880		RESV	3,Z'0000'
000635	012A	0000	11890		DC	Z'0000'
000636	012B	FFFF	11900		DC	\$ALL
000637	012C	0000	11910		DC	Z'0000'
000638	012D	0110	11920		DC	<BOOTIT
000639	012E	6000	11930		DC	\$SRGP3
000640	012F	0000	11940		RESV	16,Z'0000'
000641			11950	*		
000642			11960	*	START OF EXEC INITIALIZATION LEVEL	
000643			11970	*		
000644		0142	11980	INITIV	EQU	\$+3
000645	013F	0000	11990		RESV	3,Z'0000'
000646	0142	0000	12000		DC	Z'0000'
000647	0143	FFFF	12010		DC	\$ALL
000648	0144	0000	12020		DC	Z'0000'
000649	0145	0267	12030		DC	<DISKIT
000650	0146	6000	12040		DC	\$SRGP3
000651	0147	0000	12050		RESV	16,Z'0000'
000652			12060	*		
000653			12070	*	TRAP OVERFLOW INTERRUPT	
000654			12080	*		
000655		015A	12090	TSOVIV	EQU	\$+3
000656	0157	0000	12100		RESV	3,Z'0000'
000657	015A	0000	12110		DC	Z'0000'
000658	015B	FFFF	12120		DC	\$ALL
000659	015C	0000	12130		DC	Z'0000'
000660	015D	01A0	12140		DC	<TSAOVR
000661	015E	6000	12150		DC	\$SRGP3
000662	015F	0000	12160		RESV	16,Z'0000'
000663			12170	*		
000664			12180	*	POWER FAIL OR CRASH INTERRUPT	
000665			12190	*		
000666		0172	12200	ERRIV	EQU	\$+3
000667	016F	0000	12210		RESV	3,Z'0000'
000668	0172	0000	12220		DC	Z'0000'
000669	0173	FFFF	12230		DC	\$ALL
000670	0174	0000	12240		DC	Z'0000'
000671	0175	0000	12250		DC	Z'0000'
000672	0176	6000	12260		DC	\$SRGP3
000673	0177	0000	12270		RESV	16,Z'0000'
000674			12280	*		
000675			12290	*	TERMINATE INTERRUPT VECTOR	
000676			12300	*		
000677		018A	12310	TERMIV	EQU	\$+3
000678	0187	0000	12320		RESV	3,Z'0000'
000679	018A	0000	12330		DC	Z'0000'

SAVE ENTIRE ISM1 CONTEXT  
LEVEL ROUTINE WHEN WE ARE IDLE  
MMA,RFU,TSAP  
DEV  
ISM1

NORMAL WAIT ROUTINE FOR BOOTLOAD  
PRIORITY LEVEL  
ROOM FOR REGISTERS

LEVEL ROUTINE WHEN WE START EXEC UP  
MMA,RFU,TSAP  
DEV  
ISM1

DISKETTE COPY ROUTINE  
PRIORITY LEVEL  
ROOM FOR REGISTERS

LEVEL ROUTINE WHEN WE ARE OVER TRAPPED  
MMA,RFU,TSAP  
DEV  
ISM1

TSA OVERFLOW HANDLER  
PRIORITY LEVEL  
ROOM FOR REGISTERS

LEVEL ROUTINE WHEN WE ARE IDLE  
MMA,RFU,TSAP  
DEV  
ISM1

PREG PLUGGED WHEN WE LEFT LEVEL0  
PRIORITY LEVEL  
ROOM FOR EREGISTERS

START OF TRAP VECTOR  
MMA,RFU,TSAP

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000680	018B	FFFF	
000681	018C	0000	
000682	018D	0353	
000683	018E	6000	
000684	018F		0000

12340	DC	\$ALL
12350	DC	Z'0000'
12360	DC	<TRMINT
12370	DC	\$SRGP3
12380	RESV	16,Z'0000'

ISM1  
PC SAVE LOC  
PRIORITY LEVEL  
ROOM FOR REGISTERS

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000685  
 000686  
 000687  
 000688  
 000689 019F 0000  
 000690  
 000691  
 000692  
 000693  
 000694 01A0 8C00 019F  
 000695 01A2 8E70 0000

12390 /EJECT  
 12400 \*  
 12410 \* ERROR INFORMATION  
 12420 \*  
 12430 SERROR DC Z'0000'  
 12440 \*  
 12450 \*  
 12460 \* HANDLE TSA OVERFLOW  
 12470 \*  
 12480 TSAOVR STS <SERROR  
 12490 LEV =\$LVDIE

LEVEL WHERE CRASH OCCURRED

SAVE LEVEL WHERE CRASH OCCURRED  
CRASH

000696				12500	/EJECT				
000697				12510	*				
000698				12520	* TRAP HANDLING MECHANISMS				
000699				12530	*				
000700				12540	*				
000701				12550	* TRAP SAVE AREAS				
000702				12560	*				
000703	01A4	01AD		12570	TSABK0	DC	<TSABK1	LINK TO SECOND	
000704	01A5	0000		12580		RESV	\$TSALN-1,Z'0000'	ROOM FOR REMAINDER OF TSA	
000705				12590	*				
000706	01AD	01B6		12600	TSABK1	DC	<TSABK2	LINK TO THIRD	
000707	01AE	0000		12610		RESV	\$TSALN-1,Z'0000'	ROOM FOR REMAINDER OF TSA	
000708				12620	*				
000709	01B6	0000		12630	TSABK2	DC	Z'0000'	ONLY HAVE 3 ACTIVE TSA'S	
000710	01B7	0000		12640		RESV	\$TSALN-1,Z'0000'	ROOM FOR REMAINDER OF TSA	
000711				12650	*				
000712				12660	* TRAP HANDLERS				
000713				12670	*				
000714	01BF	0F80	0220	12680	HLTRPX	B	<HLTRAP	ALLOWS SHORT ADDRESS	
000715				12690	*				
000716	01C1	3C2E		12700	HLTP46	LDV	\$R3,Z'2E'	LOAD TRAP NUMBER	
000717	01C2	0FFD		12710		B	>HLTRPX	CRASH	
000718	01C3	3C2D		12720	HLTP45	LDV	\$R3,Z'2D'	LOAD TRAP NUMBER	
000719	01C4	0FFB		12730		B	>HLTRPX	CRASH	
000720	01C5	3C2C		12740	HLTP44	LDV	\$R3,Z'2C'	LOAD TRAP NUMBER	
000721	01C6	0FF9		12750		B	>HLTRPX	CRASH	
000722	01C7	3C2B		12760	HLTP43	LDV	\$R3,Z'2B'	LOAD TRAP NUMBER	
000723	01C8	0FF7		12770		B	>HLTRPX	CRASH	
000724	01C9	3C2A		12780	HLTP42	LDV	\$R3,Z'2A'	LOAD TRAP NUMBER	
000725	01CA	0FF5		12790		B	>HLTRPX	CRASH	
000726	01CB	3C29		12800	HLTP41	LDV	\$R3,Z'29'	LOAD TRAP NUMBER	
000727	01CC	0FF3		12810		B	>HLTRPX	CRASH	
000728	01CD	3C28		12820	HLTP40	LDV	\$R3,Z'28'	LOAD TRAP NUMBER	
000729	01CE	0FF1		12830		B	>HLTRPX	CRASH	
000730	01CF	3C27		12840	HLTP39	LDV	\$R3,Z'27'	LOAD TRAP NUMBER	
000731	01D0	0FEF		12850		B	>HLTRPX	CRASH	
000732	01D1	3C26		12860	HLTP38	LDV	\$R3,Z'26'	LOAD TRAP NUMBER	
000733	01D2	0FED		12870		B	>HLTRPX	CRASH	
000734	01D3	3C25		12880	HLTP37	LDV	\$R3,Z'25'	LOAD TRAP NUMBER	
000735	01D4	0FEB		12890		B	>HLTRPX	CRASH	
000736	01D5	3C24		12900	HLTP36	LDV	\$R3,Z'24'	LOAD TRAP NUMBER	
000737	01D6	0FE9		12910		B	>HLTRPX	CRASH	
000738	01D7	3C23		12920	HLTP35	LDV	\$R3,Z'23'	LOAD TRAP NUMBER	
000739	01D8	0FE7		12930		B	>HLTRPX	CRASH	
000740	01D9	3C22		12940	HLTP34	LDV	\$R3,Z'22'	LOAD TRAP NUMBER	
000741	01DA	0FE5		12950		B	>HLTRPX	CRASH	
000742	01DB	3C21		12960	HLTP33	LDV	\$R3,Z'21'	LOAD TRAP NUMBER	
000743	01DC	0FE3		12970		B	>HLTRPX	CRASH	
000744	01DD	3C20		12980	HLTP32	LDV	\$R3,Z'20'	LOAD TRAP NUMBER	
000745	01DE	0FE1		12990		B	>HLTRPX	CRASH	
000746	01DF	3C1F		13000	HLTP31	LDV	\$R3,Z'1F'	LOAD TRAP NUMBER	
000747	01E0	0FDF		13010		B	>HLTRPX	CRASH	

000748	01E1	3C1E	13020	HLTP30	LDV	\$R3,Z'1E'	LOAD TRAP NUMBER
000749	01E2	0FDD	13030		B	>HLTRPX	CRASH
000750	01E3	3C1D	13040	HLTP29	LDV	\$R3,Z'1D'	LOAD TRAP NUMBER
000751	01E4	0FDB	13050		B	>HLTRPX	CRASH
000752	01E5	3C1C	13060	HLTP28	LDV	\$R3,Z'1C'	LOAD TRAP NUMBER
000753	01E6	0FD9	13070		B	>HLTRPX	CRASH
000754	01E7	3C1B	13080	HLTP27	LDV	\$R3,Z'1B'	LOAD TRAP NUMBER
000755	01E8	0FD7	13090		B	>HLTRPX	CRASH
000756	01E9	3C1A	13100	HLTP26	LDV	\$R3,Z'1A'	LOAD TRAP NUMBER
000757	01EA	0FD5	13110		B	>HLTRPX	CRASH
000758	01EB	3C19	13120	HLTP25	LDV	\$R3,Z'19'	LOAD TRAP NUMBER
000759	01EC	0FD3	13130		B	>HLTRPX	CRASH
000760	01ED	3C18	13140	HLTP24	LDV	\$R3,Z'18'	LOAD TRAP NUMBER
000761	01EE	0FB2	13150		B	>HLTRAP	CRASH
000762	01EF	3C17	13160	HLTP23	LDV	\$R3,Z'17'	LOAD TRAP NUMBER
000763	01F0	0FB0	13170		B	>HLTRAP	CRASH
000764	01F1	3C16	13180	HLTP22	LDV	\$R3,Z'16'	LOAD TRAP NUMBER
000765	01F2	0FAE	13190		B	>HLTRAP	CRASH
000766	01F3	3C15	13200	HLTP21	LDV	\$R3,Z'15'	LOAD TRAP NUMBER
000767	01F4	0FAC	13210		B	>HLTRAP	CRASH
000768	01F5	3C14	13220	HLTP20	LDV	\$R3,Z'14'	LOAD TRAP NUMBER
000769	01F6	0FAA	13230		B	>HLTRAP	CRASH
000770	01F7	3C13	13240	HLTP19	LDV	\$R3,Z'13'	LOAD TRAP NUMBER
000771	01F8	0FA8	13250		B	>HLTRAP	CRASH
000772	01F9	3C12	13260	HLTP18	LDV	\$R3,Z'12'	LOAD TRAP NUMBER
000773	01FA	0FA6	13270		B	>HLTRAP	CRASH
000774	01FB	3C11	13280	HLTP17	LDV	\$R3,Z'11'	LOAD TRAP NUMBER
000775	01FC	0FA4	13290		B	>HLTRAP	CRASH
000776	01FD	3C10	13300	HLTP16	LDV	\$R3,Z'10'	LOAD TRAP NUMBER
000777	01FE	0FA2	13310		B	>HLTRAP	CRASH
000778	01FF	3C0F	13320	HLTP15	LDV	\$R3,Z'0F'	LOAD TRAP NUMBER
000779	0200	0FA0	13330		B	>HLTRAP	CRASH
000780	0201	3C0E	13340	HLTP14	LDV	\$R3,Z'0E'	LOAD TRAP NUMBER
000781	0202	0F9E	13350		B	>HLTRAP	CRASH
000782	0203	3C0D	13360	HLTP13	LDV	\$R3,Z'0D'	LOAD TRAP NUMBER
000783	0204	0F9C	13370		B	>HLTRAP	CRASH
000784	0205	3C0C	13380	HLTP12	LDV	\$R3,Z'0C'	LOAD TRAP NUMBER
000785	0206	0F9A	13390		B	>HLTRAP	CRASH
000786	0207	3C0B	13400	HLTP11	LDV	\$R3,Z'0B'	LOAD TRAP NUMBER
000787	0208	0F98	13410		B	>HLTRAP	CRASH
000788	0209	3C0A	13420	HLTP10	LDV	\$R3,Z'0A'	LOAD TRAP NUMBER
000789	020A	0F96	13430		B	>HLTRAP	CRASH
000790	020B	3C09	13440	HLTP09	LDV	\$R3,Z'09'	LOAD TRAP NUMBER
000791	020C	0F94	13450		B	>HLTRAP	CRASH
000792	020D	3C08	13460	HLTP08	LDV	\$R3,Z'08'	LOAD TRAP NUMBER
000793	020E	0F92	13470		B	>HLTRAP	CRASH
000794	020F	3C07	13480	HLTP07	LDV	\$R3,Z'07'	LOAD TRAP NUMBER
000795	0210	0F90	13490		B	>HLTRAP	CRASH
000796	0211	3C06	13500	HLTP06	LDV	\$R3,Z'06'	LOAD TRAP NUMBER
000797	0212	0F8E	13510		B	>HLTRAP	CRASH
000798	0213	3C05	13520	HLTP05	LDV	\$R3,Z'05'	LOAD TRAP NUMBER
000799	0214	0F8C	13530		B	>HLTRAP	CRASH

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000800	0215	3C04	13540	HLTP04	LDV	\$R3,Z'04'	LOAD TRAP NUMBER
000801	0216	0F8A	13550		B	>HLTRAP	CRASH
000802	0217	3C03	13560	HLTP03	LDV	\$R3,Z'03'	LOAD TRAP NUMBER
000803	0218	0F88	13570		B	>HLTRAP	CRASH
000804	0219	3C02	13580	HLTP02	LDV	\$R3,Z'02'	LOAD TRAP NUMBER
000805	021A	9070 0080	13590		MTM	\$M1,=\$M1JTS	TEST JUMP BIT FIRST
000806	021C	9070 8000	13600		MTM	\$M1,=\$M1JRS	THEN RESET IT
000807	021E	0F82	13610		B	>HLTRAP	CRASH
000808	021F	3C01	13620	HLTP01	LDV	\$R3,Z'01'	LOAD TRAP NUMBER
000809			13630	*			
000810	0220	8388 0222	13640	HLTRAP	JMP	*<TRAPER	CALL TRAP SUBROUTINE
000811			13650	*			
000812	0222	0223	13660	TRAPER	DC	<TRPDIE	DIE IF WE WERENT EXPECTING FAULT
000813			13670	*			
000814	0223	8C00 019F	13680	TRPDIE	STS	<SERROR	SAVE LEVEL WHERE CRASH OCCURRED
000815	0225	8E70 0000	13690		LEV	=\$LVDIE	CRASH



000816			13700	/EJECT		
000817		4000	13710	BTINH	EQU	Z'4000'
000818			13720	*		CONFIG A MODE BITS
000819		0000	13730	ITEST	EQU	Z'0000'
000820		0000	13740	RFU	EQU	Z'0000'
000821		0080	13750	NORMAL	EQU	Z'0080'
000822		00C0	13760	ETEST	EQU	Z'00C0'
000823			13770	*		
000824			13780	INITCP	RESV	0
000825			13790	*		ROUTINE TO KEEP ALL COUPLERS FROM BUGGING US WITH A BOOT
000826			13800	*		
000827	0227	D870 0400	13810		LDR	CHANEL,=BTLDC
000828	0229	FBC0 0106	13820		LAB	\$B7,RTTRAP
000829	022B	FEC0 FE45	13830		SWB	\$B7,\$TV15
000830			13840	*		
000831			13850	CLOOP	RESV	0
000832	022D	6C26	13860		LDV	\$R6,\$DVID
000833	022E	E455	13870		OR	\$R6,=CHANEL
000834	022F	8057	13880		IO	=R7,=R6
	0230	0056				GET THE ID
000835			13890	*		
000836	0231	07A6	13900		BIOF	>CPNEXT
000837			13910	*		NUTTIN' THERE
000838	0232	F970 2408	13920		CMR	\$R7,=COUPLD
000839	0234	0981 0022	13930		BNE	CPNEXT
000840			13940	*		IS IT A COUPLER?
000841		8000	13950	QLT	EQU	Z'8000'
000842			13960	*		NOPE, DON'T BOTHER
000843	0236	6C41	13970		LDV	\$R6,\$OTCTL+\$IOCH1
000844	0237	E455	13980		OR	\$R6,=CHANEL
000845	0238	8070 8000	13990		IO	=QLT,=R6
	023A	0056				INITIALIZE COUPLER
000846			14000	*		
000847			14010	*		
000848			14020	\$C	RESV	0
000849	023B	6C43	14030		LDV	\$R6,\$ICTLO+\$IOCH1
000850	023C	E455	14040		OR	\$R6,=CHANEL
000851	023D	8070 0012	14050		IO	=CPUOCH*Z'0040'+COUPTL,=R6
	023F	0056				
000852	0240	07FB	14060		BIOF	>-\$C
000853			14070	*		WAIT FOR COUPLER INITIALIZATION
000854	0241	F870 5F00	14080		LDR	\$R7,=H66TRM*Z'0800'+H66SPC*Z'0100'+BTINH
000855	0243	6C47	14090		LDV	\$R6,\$TSKRO+\$IOCH1
000856	0244	E455	14100		OR	\$R6,=CHANEL
000857	0245	8057	14110		IO	=R7,=R6
	0246	0056				SET IT IN TASK REG
000858			14120	*		
000859	0247	6C51	14130		LDV	\$R6,\$CFGAO+\$IOCH1
000860	0248	E455	14140		OR	\$R6,=CHANEL
000861	0249	8070 0091	14150		IO	=COUPL+NORMAL,=R6
	024B	0056				"ENSURE TEST DATA XFER' OK
000862			14160	*		

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000863	024C	D970 0400	14170	CMR	CHANEL,=BTLDCH	IF BOOTLOAD COUPLER
000864	024E	0981 0008	14180	BNE	CPNEXT	NOT
000865			14190 *	BOOTLOAD COUPLER, GET STATUS INFO FOR L66 MBX		
000866	0250	6C49	14200	LDV	\$R6,=\$IOLDO	
000867	0251	E455	14210	OR	\$R6,=CHANEL	DO GET THE ADDRESS
000868	0252	81C0 0157	14220	IOLD	DCW,=\$R6,=DCWLEN	
	0254	0056				
	0255	0070 0018				
000869			14230 *			
000870			14240	CPNEXT	RESV	0
000871	0257	DA70 0080	14250	ADD	CHANEL,=NEXTCH	TRY NEXT GUY IN LINE
000872	0259	89D5	14260	CMZ	=CHANEL	KEEP FROM WRAPPING ON ALL CHANNELS
000873	025A	09D3	14270	BNE	>CPLOOP	TRY AGAIN
000874			14280 *	DONE		
000875	025B	FECO FE15	14290	SWB	\$B7,\$TV15	PUT BACK MISSING RESOURCE TRAP
000876	025D	8386	14300	JMP	TRNS	RETURN

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000877      14310 /EJECT  ** ROUTINE TO ALLOW COUPLER BOOTS AGAIN **
000878      14320 RSETCP RESV      0          ALLOW MORE BOOTS
000879      14330 *
000880 025E D800 0125      14340      LDR      CHANEL,<CPLRCH      ASSUME COUPLER VERIFIED IN INITCP
000881      14350 *
000882 0260 F870 1F00      14360      LDR      $R7,=H66TRM*Z'0800'+H66SPC*Z'0100'
000883 0262 6C47      14370      LDV      $R6,$TSKRO+$IOCH1      ALLOW MORE BOOTLOAD CMD'S
000884 0263 E455      14380      OR      $R6,=CHANEL
000885 0264 8057      14390      IO      =$R7,=$R6
          0265 0056
000886      14400 *
000887 0266 8386      14410      JMP      TRNS          RETURN
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000888 14420 /EJECT ** MAIN LEVEL PROCESSING OF DISKETTE WRITING **
000889 14430 *****
000890 14440 * THE FOLLOWING STEPS OCCUR :
000891 14450 * 1. SET ENDING LOCATION, STARTING LOCATION, TRACK ZERO, & RANGE
000892 14460 * 2. LOOP UNTIL FINAL LOCATION TO WRITE IS REACHED
000893 14470 * A. FORMAT CURRENT TRACK
000894 14480 * B. WRITE SEGMENT TO DISKETTE
000895 14490 * C. UPDATE BASE, UPDATE TRACK NUMBER IN FORMAT DATA LIST
000896 14500 * 3. HALT
000897 14510 *****
000898 14520 MARK RESV 0 MARK THIS POINT
000899 14530 * MAIN BODY OF WORK FOR DISKETTE COPY
000900 000900 0580 14540 ADJUST EQU Z'0580' BOUND UNIT OVERLAY OFFSET
000901 0267 14550 ORG MARK RESET PC
000902 14560 *
000903 14570 DISKIT RESV 0
000904 14580 * FIRST MOVE IN THE DATE & TIME FOR DUMP REFERENCE
000905 14590 *
000906 14600 XLOC DATE,TIME
000907 0008 14610 EIGHT EQU 8
000908 14620 *
000909 0267 9B80 0000 X 14630 LAB $B1,<DATE SET TARGET START
000910 0269 9BC1 0480 14640 LAB $B1,$B1.ADJUST-Z'0100' "ADJUST, IN OTHER OVERLAY
000911 026B B870 0000 14650 LDR $R3,=ZERO START AT THE BEGINNING
000912 14660 *
000913 14670 DATMOV RESV 0
000914 026D C830 0102 14680 LDR $R4,<DATIME.$R3 GET ONE WORD
000915 026F CF7D 14690 STR $R4,$B1,+$R3 MOVE IT & SET TO NEXT
000916 0270 3D08 14700 CMV $R3,EIGHT DONE?
000917 0271 09FC 14710 BNE >DATMOV NOPE
000918 14720 *
000919 0272 D800 0126 14730 LDR CHANEL,<DISKCH GET DISKETTE CHANNEL NUMBER
000920 0274 9CC0 003E 14740 LDB $B1,ENDO GET ENDING POINT
000921 0276 9BC1 0580 14750 LAB $B1,$B1.ADJUST ADJUST A BIT FOR
000922 0278 9FC0 003A 14760 STB $B1,ENDO BOUND UNIT KLUDGE
000923 14770 *
000924 027A B870 0580 14780 LDR $R3,=ADJUST SET STARTING POINT
000925 027C 3001 14790 SOL $R3,ONE MAKE IT A BYTE OFFSET
000926 027D BF00 0124 14800 STR $R3,<DIF PUSH THE OFFSET INTO BASE
000927 027F FC80 0124 14810 LDB BASE,<DIF BYTE OFFSET BASE
000928 14820 *
000929 14830 *
000930 0281 B840 0031 14840 LDR $R3,ENDO CONVERT TO BYTE OFFSET
000931 0283 3001 14850 SOL $R3,ONE FOR END POINT
000932 0284 BF40 002E 14860 STR $R3,ENDO
000933 14870 *
000934 0286 9870 0D00 14880 LDR RANGE,=TRKSIZ WRITE FULL =TRACKS
000935 14890 *
000936 0288 B840 0039 14900 LDR $R3,DATPTR CONVERT FORMAT INFO PTR
000937 028A 3001 14910 SOL $R3,ONE TO MAKE IT A BYTE ADDRESS
000938 028B BF40 0036 14920 STR $R3,DATPTR
000939 14930 *

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000940	028D	7C00		14940	LDV	TRACK,ZERO	WRITE TRACKS IN ORDER
000941				14950 *			
000942				14960	WRITLP	RESV	0
000943	028E	9B97		14970	LAB	\$B1,BASE,RANGE	FIND CURRENT ENDING POINT
000944	028F	9D80	02B3	14980	CMB	\$B1,<ENDO	LAST PART
000945	0291	0300	T	14990	BG	>+\$A	YEP, RECOMPUTE RANGE VALUE
000946				15000 *			
000947	0292	E3C0	0021	15010	LNJ	TRNS,FORMAT	FORMAT THE TRACK FIRST
000948	0294	E3C0	0068	15020	LNJ	TRNS,WRITE	WRITE THE SEGMENT TO THE TRACK
000949	0296	7E01		15030	ADV	TRACK,ONE	GO TO NEXT TRACK
000950	0297	FB97		15040	LAB	BASE,BASE,RANGE	RESET BASE TO NEXT SEGMENT
000951	0298	BB80	02FD	15050	LAB	\$B3,<TRKEND	MARK END OF FORMAT INFO
000952	029A	AB80	02C9	15060	LAB	\$B2,<TRKLBL	SET START OF INFO
000953				15070 *			
000954				15080	\$C	RESV	0
000955	029C	ADD3		15090	CMB	\$B2,=\$B3	DONE?
000956	029D	0971		15100	BE	>WRITLP	YEP, GO FORMAT THIS TRACK
000957				15110 *			
000958	029E	F7F2		15120	STH	TRACK,+B2	RESET TRACK NUMBER IN ID
000959	029F	ABC2	0001	15130	LAB	\$B2,\$B2.ONE	JUMP B2 2 SPOTS INSTEAD OF ONE
000960	02A1	0FFB	T	15140	B	>-\$C	SEE IF MORE INFO
000961				15150 *			
000962				15160	\$A	RESV	0
000963	02A2	FF80	0124	15170	STB	BASE,<DIF	GET THE CURRENT BASE
000964	02A4	9800	02B3	15180	LDR	RANGE,<ENDO	FIND THE END POINT
000965	02A6	9200	0124	15190	SUB	RANGE,<DIF	FIND RESIDUE AMOUNT
000966				15200 *			
000967	02A8	E380	02B4	15210	LNJ	TRNS,<FORMAT	FORMAT (FULL TRACK)
000968	02AA	E380	02FD	15220	LNJ	TRNS,<WRITE	WRITE RESIDUE OF DATA
000969				15230 *			
000970	02AC	E380	025E	15240	LNJ	TRNS,<RSETCP	ALLOW REBOOT
000971	02AE	8E70	803F	15250	LEV	=\$LVEXI	SUSPEND
000972	02B0	0000		15260	HLT		WE SHOULDN'T RETURN
000973	02B1	8380	0119	15270	JMP	<DEATH	
000974				15280 *			
000975	02B3	0000	X	15290	ENDO	DC	<ENDING
							LET HRF LINKER TELL US WHERE TO STOP

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000976 15300 /EJECT ** ROUTINE CALLED TO FORMAT A FULL TRACK **
000977 15310 *****
000978 15320 * SIMPLE ROUTINE TO SET UP COMMAND AND DATA LIST POINTERS
000979 15330 * FOR THE DOIO ROUTINE SUCH THAT 26 SECTORS ARE FORMATTED
000980 15340 * TO THE DISKETTE
000981 15350 *****
000982 15360 FORMAT RESV 0
000983 15370 * ON INPUT:
000984 15380 * R7=TRACK NUMBER
000985 15390 *
000986 02B4 F7C0 000F 15400 STH $R7,TRKNO STORE TRACK NUMBER FOR I/O
000987 02B6 3C07 15410 LDV $R3,DATLNG SET CMD STRING LENGTH FOR DOIO
000988 15420 *
000989 02E7 AB80 02BE 15430 LAB $B2,<CMDLST SET COMMAND LIST PTR
000990 02B9 BB80 02C2 15440 LAB $B3,<DATLST SET DATA LIST PTR FOR DOIO
000991 15450 *
000992 02BB D3C0 005B 15460 LNJ $B5,DOIO GO TO IT
000993 02BD 8386 15470 JMP TRNS RETURN
000994 15480 *
000995 15490 *
000996 15500 CMDLST RESV 0
000997 02BE 090D 15510 DC 0$ADDR*U+0$RANG SET MEM ADDR, LENGTH
000998 02BF 1107 15520 DC 0$CWA*U+0$TASK SET & SEEK
000999 02C0 1807 15530 DC I$STAT*U+0$TASK STATUS & FORMAT WRITE
001000 02C1 1800 15540 DC I$STAT*U
001001 15550 *
001002 15560 DATLST RESV 0
001003 02C2 02C9 15570 DATPTR DC <TRKLBL POINTER TO FORMAT DATA
001004 02C3 0068 15580 DC HEADRS FULL TRACK FORMATTING
001005 02C4 0000 15590 TRKNO DC 0 TRACK NUMBER TO SEEK
001006 02C5 0100 15600 DC 0$EEK$ SEEK ORDER
001007 02C6 0000 15610 DC 0 STATUS SHTICK
001008 02C7 8000 15620 DC 0$FRMT$ FORMATTED WRITE
001009 02C8 0000 15630 DC 0 STATUS SHTICK
001010 0007 15640 DATLNG EQU $-DATLST MARK LENGTH
001011 15650 *
001012 15660 TRKLBL RESV 0 TRACK SECTOR ID'S
001013 02C9 0000 15670 DC Z'0000',Z'0000' SECTOR 0
001014 02CA 0000 15680 DC Z'0000',Z'0100' SECTOR 1
001015 02CB 0000 15690 DC Z'0000',Z'0200' SECTOR 2
001016 02CC 0100 15700 DC Z'0000',Z'0300' SECTOR 3
001017 02CD 0000 15710 DC Z'0000',Z'0400' SECTOR 4
001018 02CE 0200 15720 DC Z'0000',Z'0500' SECTOR 5
001019 02CF 0000 15730 DC Z'0000',Z'0600' SECTOR 6
001020 02D0 0300 15740 DC Z'0000',Z'0700' SECTOR 7
001017 02D1 0000
001018 02D2 0400
001019 02D3 0000
001019 02D4 0500
001019 02D5 0000
001019 02D6 0600
001020 02D7 0000

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001021	02D8 0700 02D9 0000 02DA 0800	15750	DC	Z'0000',Z'0800'	SECTOR 8
001022	02DB 0000 02DC 0900	15760	DC	Z'0000',Z'0900'	SECTOR 9
001023	02DD 0000 02DE 0A00	15770	DC	Z'0000',Z'0A00'	SECTOR 10
001024	02DF 0000 02E0 0B00	15780	DC	Z'0000',Z'0B00'	SECTOR 11
001025	02E1 0000 02E2 0C00	15790	DC	Z'0000',Z'0C00'	SECTOR 12
001026	02E3 0000 02E4 0D00	15800	DC	Z'0000',Z'0D00'	SECTOR 13
001027	02E5 0000 02E6 0E00	15810	DC	Z'0000',Z'0E00'	SECTOR 14
001028	02E7 0000 02E8 0F00	15820	DC	Z'0000',Z'0F00'	SECTOR 15
001029	02E9 0000 02EA 1000	15830	DC	Z'0000',Z'1000'	SECTOR 16
001030	02EB 0000 02EC 1100	15840	DC	Z'0000',Z'1100'	SECTOR 17
001031	02ED 0000 02EE 1200	15850	DC	Z'0000',Z'1200'	SECTOR 18
001032	02EF 0000 02F0 1300	15860	DC	Z'0000',Z'1300'	SECTOR 19
001033	02F1 0000 02F2 1400	15870	DC	Z'0000',Z'1400'	SECTOR 20
001034	02F3 0000 02F4 1500	15880	DC	Z'0000',Z'1500'	SECTOR 21
001035	02F5 0000 02F6 1600	15890	DC	Z'0000',Z'1600'	SECTOR 22
001036	02F7 0000 02F8 1700	15900	DC	Z'0000',Z'1700'	SECTOR 23
001037	02F9 0000 02FA 1800	15910	DC	Z'0000',Z'1800'	SECTOR 24
001038	02FB 0000 02FC 1900	15920	DC	Z'0000',Z'1900'	SECTOR 25
001039	02FD	15930	TRKEND EQU	\$	

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001040 15940 /EJECT  ** ROUTINE TO WRITE DATA TO A DISKETTE TRACK **
001041 15950 *****
001042 15960 *   SETS DATA AND COMMAND LIST POINTERS FOR DOIO ROUTINE
001043 15970 *   THE RANGE AND BASE ARE ACTUALLY SET UP IN MAIN DISKIT
001044 15980 *   THE CANNED COMMAND LIST IS SET UP FOR OUTPUT TO DISKETTE
001045 15990 *****
001046 16000 WRITE   RESV   0
001047 16010 *           WRITE DATA TO TRACK ROUTINE
001048 16020 *   ON INPUT
001049 16030 *       R7 = TRACK NUMBER
001050 16040 *       R1 = RANGE (LENGTH IN BYTES)
001051 16050 *       B7 = START OF DATA
001052 16060 *
001053 02FD  FFC0 0011 16070          STB      BASE,DATLOC      STUFF THE BUFFER START LOC
001054 16080 *
001055 02FF  F7C0 0011 16090          STH      TRACK,TRKNUM      STUFF THE TRACK NUMBER
001056 0301  3C08      16100          LDV      $R3,DATLEN      SET LIST LENGTH FOR DOIO
001057 0302  9F40 000D 16110          STR      RANGE,LENGTH      STUFF THE RANGE
001058 16120 *
001059 0304  AB80 030B 16130          LAB      $B2,<CMDLIS      SET COMMAND LIST PTR FOR DOIO
001060 0306  BB80 030F 16140          LAB      $B3,<DATLIS      SET DATA BUS INFO PTR FOR DOIO
001061 16150 *
001062 0308  D380 0317 16160          LNJ      $B5,<DOIO      GO TO IT
001063 030A  8386      16170          JMP      TRNS              RETURN
001064 16180 *
001065 16190 *
001066 16200 CMDLIS  RESV   0
001067 030B  090D      16210          DC      0$ADDR*U+0$RANG      SET START & LENGTH
001068 030C  1113      16220          DC      0$CWA*U+0$CWB       SET SEEK & SECTOR
001069 030D  0718      16230          DC      0$TASK*U+I$STAT     SEEK & DESTROY
001070 030E  0718      16240          DC      0$TASK*U+I$STAT     DESTROY PART
001071 16250 *
001072 16260 DATLIS  RESV   0
001073 030F  0000      16270          DC      0                    START OF MEMORY
001074 0310  0000      16280          DC      0                    RANGE IN BYTES
001075 0311  0000      16290          DC      0                    TRACK NUMBER, HEAD 0
001076 0312  0000      16300          DC      0                    ALWAYS START AT SECTOR 0 ON TRACK
001077 0313  0100      16310          DC      0$EEK$              SEEK ORDER
001078 0314  0000      16320          DC      0                    STATUS SHTICK
001079 0315  8100      16330          DC      0RWS                WRITE DATA ORDER
001080 0316  0000      16340          DC      0                    STATUS SHTICK
001081          0008      16350          EQU      $-DATLIS

```



```

001082 16360 /EJECT ** GENERAL DISKETTE I/O ROUTINE **
001083 16370 *****
001084 16380 * ROUTINE CYCLES THRU A COMMAND LIST AND A DATA LIST
001085 16390 * THAT IS SET UP BY THE CALLER.
001086 16400 * THE COMMAND LIST IS A LIST OF COMMANDS PACKED IN CONSECUTIVE
001087 16410 * BYTES. THE STARTING BYTE MUST BE THE LEFT BYTE OF A WORD.
001088 16420 * THE DATA LIST IS COMPOSED OF WORDS FOR COMMAND ORDERS, ETC.
001089 16430 * THE ROUTINE MUST BE GIVEN THE LENGTH OF THESE LISTS.
001090 16440 * THE LIST LENGTHS MUST BE EQUAL.
001091 16450 *****
001092 16460 DOIO RESV 0 PHYSICAL I/O ROUTINE
001093 16470 BADSTS EQU Z'3F27' BAD STATUS BITS
001094 16480 HALTS EQU Z'1616' MOD 400 ABORT CODE FOR STATUS
001095 16490 MASK EQU Z'003F' COMMAND MASK
001096 16500 *
001097 16510 * ON INPUT
001098 16520 * R3 = COMMAND LIST LENGTH
001099 16530 * R5 = CHANNEL NUMBER
001100 16540 * B3 ==> DATA BUSS INFO
001101 16550 * B2 ==> COMMAND LIST
001102 16560 * B5 = RETURN REGISTER
001103 16570 *
001104 0317 BF00 032F 16580 STR $R3,<DONE REMEMBER LIST LENGTH
001105 0319 3C00 16590 LDV $R3,ZERO START AT HEAD OF LISTS
001106 16600 *
001107 16610 IOLOOP RESV 0
001108 031A B900 032F 16620 CMR $R3,<DONE FINISHED?
001109 031C 0980 T 16630 BNE >+$D NOPE
001110 031D 8385 16640 JMP $B5
001111 16650 *
001112 16660 $D RESV 0
001113 031E E2FE 16670 LLH $R6,$B2,+$R3 'POP' NEXT COMMAND
001114 031F A873 16680 LDR $R2,+$B3 'POP' DATA BUSS STUFF
001115 16690 $E RESV 0
001116 0320 E455 16700 OR $R6,=CHANEL ADD CHANNEL
001117 0321 8052 16710 IO =$R2,=$R6 EXECUTE THE COMMAND
001118 0322 0056
001119 0323 E570 003F 16720 *
001120 0325 6D18 16730 AND $R6,=MASK GET COMMAND
001121 0326 09F4 16740 CMV $R6,I$STAT STATUS INQUIRY?
001122 16750 BNE >IOLOOP NOPE, GO ON
001123 0327 07F9 T 16760 *
001124 0328 A570 3F27 16770 BIOF >-$E AWAKE SUCCESS
001125 032A 2970 16780 AND $R2,=BADSTS CHECK THE STATUS
001126 16790 BEZ $R2,>IOLOOP YEP, GO ON
001127 032B 9870 1616 16800 *
001128 032D 0000 16810 LDR $R1,=HALTS UHOH
001129 032E 0FFF T 16820 $F HLT TURN OUT THE LIGHTS..
001130 16830 B >-$F STAY TURNED OFF
001131 032F 0000 16840 *
16850 DONE RESV 1,0 LIST LENGTH CELL

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```

001132 16860 /EJECT ** ROUTINE TO FIND THE LOWEST CHANNEL WITH A DISKETTE **
001133 16870 *****
001134 16880 * THIS ROUTINE STARTS AT CHANNEL 0400(16) AND LOOPS QUERYING
001135 16890 * THE DEVICE TYPE ATTACHED TO THE CHANNEL. THE FIRST DISKETTE
001136 16900 * FOUND IS GRABBED AS THE DISKETTE TO USE. NON-EXISTENT RESOUC
001137 16910 * TRAPS ARE IGNORED. NOT FINDING A DISKETTE HALTS THE PROGRAM.
001138 16920 *****
001139 16930 NODISC EQU Z'1617' FABRICATED ERROR - NO DISKETTE
001140 16940 NEXTCH EQU Z'0080' CHANNEL SEARCH INCREMENTER
001141 0330 0003 16950 RTTRAP RTT TRAP VECTOR NOP CELL
001142 16960 *
001143 16970 FINDSC RESV 0 FIND DIO9101 ROUTINE
001144 16980 *
001145 16990 * ROUTINE SETS CHANNEL IN R5 (MAKES ODD FOR OUTPUT)
001146 17000 * R5 MUST THEN BE KEPT SACRED UNTIL FINISHED
001147 17010 *
001148 0331 D870 0400 17020 LDR CHANNEL,=BTLDCH START AT 0400 HEX
001149 0333 FBC0 FFFC 17030 LAB $B7,RTTRAP SET TRAP PTR
001150 0335 FEC0 FD3B 17040 SWB $B7,$TV15 MAKE NON-EXISTANT RESOURCE TRAP A NOP
001151 17050 * AND SAVE OLD VECTOR FOR LATER
001152 17060 SRCHLP RESV 0
001153 0337 6C26 17070 LDV $R6,I$DVID CHECK OUT THE DEVICE TYPE
001154 0338 E455 17080 OR $R6,=CHANNEL COMPLETE =CH,F PAIR
001155 0339 8057 17090 IO =$R7,=$R6 GET IT
001156 17100 *
001157 033B 078E 17110 BIOF >NXTCHL NUTTIN' THERE
001158 17120 *
001159 FFFE 17130 DVMASK EQU Z'FFFE' DON'T CARE WHAT MODEL DIU
001160 033C F570 FFFE 17140 AND $R7,=DVMASK DIU9101 OR DIU9103, ETC
001161 033E F970 2010 17150 CMR $R7,=DISKID IS THIS OUR MAN?
001162 0340 0981 0008 17160 BNE NXTCHL NOPE, GO FORTH
001163 17170 *
001164 0342 D470 0040 17180 OR CHANNEL,=$IOCH1 MAKE OUTPUT DIRECTION
001165 0344 DF00 0126 17190 STR CHANNEL,<DISKCH SAVE CHANNEL FOR LEVEL 4
001166 17200 *
001167 0346 FEC0 FD2A 17210 SWB $B7,$TV15 RESTORE TRAP VECTOR FOR NON-EXISTANT RESOUC
001168 0348 8386 17220 JMP TRNS RETURN TO CALLER
001169 17230 *
001170 17240 NXTCHL RESV 0
001171 0349 DA70 0080 17250 ADD CHANNEL,=NEXTCH ADVANCE ONE CHANNEL/PORT A TIME
001172 034B 89D5 17260 CMZ =CHANNEL DON'T WRAP ON THE CHECK, WE'RE DONE
001173 034C 09EB 17270 BNE >SRCHLP ONWARD
001174 17280 *
001175 17290 UHOV RESV 0
001176 034D E3C0 FF10 17300 LNJ TRNS,RSETCP ALLOW REBOOT
001177 034F 9870 1617 17310 LDR $R1,=NODISC SET ERROR CODE
001178 0351 0000 17320 $G HLT
001179 0352 0FFF T 17330 B >-$G

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```

001180 17340 /EJECT  TERMINATE INTERRUPT HANDLING
001181 17350 *****
001182 17360 * THE REMAINDER OF THE PROGRAM HANDLES TERMINATE INTERRUPTS
001183 17370 * FROM THE BOOTLOAD COUPLER. THE LEVEL IS SET UP IN INITCP.
001184 17380 * ALL PASSES OF THE INTERRUPT HANDLING RAISE TO THE TOP COUPLER
001185 17390 * LEVEL TO AVOID REENTRY BEFORE READY. THERE ARE THREE PASSES:
001186 17400 * 1. READ MAINFRAME MAILBOX TO FIND STATUS LOCATION
001187 17410 * 2. SEND GOOD STATUS TO MAINFRAME
001188 17420 * 3. GIVE MAINFRAME AN INTERRUPT
001189 17430 * ALL PASSES IMMEDIATELY FREE COUPLER BY PULLING STATUS REGS
001190 17440 *****
001191 17450 TRMINT  RESV      0              TERMINATE INTERRUPT HANDLING - PASS ONE
001192 0353 8E70 803F 17460          LEV      = $LVEXI          INITIALLY WAIT ON DEVICE INTERRUPT
001193 0355 8E70 8090 17470          LEV      = $LVDSX+CPLRLV     DON'T REENTER WITH NEW BEFORE OLD DONE
001194 17480 *
001195 0357 E3C0 0044 17490          LNJ      TRNS,GETSTS        CLEAR COUPLER STATUS
001196 17500 *
001197 17510 RMBX    RESV      0              ROUTINE TO READ L66 MBX REGION
001198 0359 F870 3E03 17520          LDR      $R7,=DW66T6*Z'0100'+BINMOD
001199 035B FF40 004E 17530          STR      $R7,D$OPMD          SET BINARY READ COMMAND
001200 17540 *
001201 035D 7C04 17550          LDV      $R7,MBXWDS          SET NUMBER OF L66 WORDS
001202 035E FF40 004C 17560          STR      $R7,D$TAL
001203 17570 *
001204 0360 8CC0 0063 17580          LDI      MBX66              GET L66 MBX LOC
001205 0362 8D40 0049 17590          SDI      D$66AD
001206 17600 *
001207 0364 FB80 03BB 17610          LAB      $B7,<MBX          FIND OUR MBX
001208 0366 FFC0 0048 17620          STB      $B7,D$6AD        AND USE IT
001209 17630 *
001210 0368 6C49 17640          LDV      $R6,$IOLD0        DO IT TO IT
001211 0369 E455 17650          OR       $R6,=CHANEL
001212 036A 8180 03AA 17660          IOLD     <DCW,=$R6,=DCWLEN
          036C 0056
          036D 0070 0018
001213 17670 *
001214 036F 8E70 803F 17680          LEV      = $LVEXI          HOLD ON THAR!

```

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001215 17690 / EJECT ROUTINE TO RETURN STATUS TO HOST
001216 17700 *****
001217 17710 * TERMINATE INTERRUPT HANDLING - PASS TWO
001218 17720 *****
001219 17730 STRITE RESV 0 ROUTINE TO SEND STATUS TO MAINFRAME
001220 0371 8E70 8090 17740 LEV =$LVDSX+CPLRLV INHIBIT
001221 0373 E3C0 0028 17750 LNJ TRNS,GETSTS CLEAR COUPLER STATUS
001222 17760 * RESET DCW LIST FOR STATUS RETURNS TO L66
001223 0375 F870 3D03 17770 LDR $R7,=DW6T66*Z'0100'+BINMOD
001224 0377 FF40 0032 17780 STR $R7,D$OPMD SET WRITE COMMAND IN IOLD DCW LIST
001225 17790 *
001226 0379 7C02 17800 LDV $R7,STSWDS SET TALLY FOR 2 L66 WORDS
001227 037A FF40 0030 17810 STR $R7,D$TAL
001228 17820 *
001229 037C 8CC0 0042 17830 LDI MBX+STOFF FIND WHERE STATUS WORD
001230 037E 70C6 17840 DOR $R7,6
001231 037F E570 0003 17850 AND $R6,=Z'0003'
001232 0381 8D40 002A 17860 SDI D$66AD PUT IN DCW LIST
001233 17870 *
001234 0383 FB80 03B6 17880 LAB $B7,<GSTAT ALWAYS SEND GOOD STATUS BACK
001235 0385 FFC0 0029 17890 STB $B7,D$6AD
001236 17900 *
001237 0387 6C49 17910 LDV $R6,$IOLD0 SEND THE FAKO STATUS
001238 0388 E455 17920 OR $R6,=CHANEL
001239 0389 8180 03AA 17930 IOLD <DCW,=$R6,=DCWLEN
038B 0056
038C 0070 0018
001240 17940 *
001241 038E 8E70 803F 17950 LEV =$LVEXI AWAIT PRINCE CHARMING

```

```

001242 17960 /EJECT
001243 17970 *****
001244 17980 *   TERMINATE INTERRUPT HANDLING - PASS THREE
001245 17990 *****
001246 0390 8E70 8090 18000      LEV      =$LVDSX+CPLRLV      INHIBIT
001247 0392 E380 039C 18010      LNJ      TRNS,<GETSTS      LET FREEDOM RING!
001248 18020 *
001249 0394 7C03      18030      LDV      $R7,H66TRM      GIVE L66 AN EXTRA KICK
001250 0395 E870 00C3 18040      LDR      $R6,=INTH66
001251 0397 E455      18050      OR       $R6,=CHANEL
001252 0398 8057      18060      IO       =$R7,=$R6
          0399 0056
001253 18070 *   DONE
001254 039A 0F80 0353 18080      B        <TRMINT      WAIT FOR THE NEXT ROUND

```

```

001255 18090 /EJECT ** ROUTINE TO PULL COUPLER STATUS REGS **
001256 18100 *****
001257 18110 * THIS ROUTINE FIRST GRABS THE INTERRUPTING DEVICE
001258 18120 * THEN IT FREES THE COUPLER BY GETTING THE STATUS REGS
001259 18130 * (WHICH ALSO CLEARS THOSE REGS)
001260 18140 *****
001261 18150 GETSTS RESV 0 ROUTINE TO CLEAR STATUS REGS IN COUPLER
001262 039C 8755 18160 CL =CHANEL
001263 039D DE78 0000 18170 SWR CHANEL,$IV,$IVDEV WHO DONE IT?
001264 18180 *
001265 18190 *
001266 18200 CHMASK EQU Z'FF80'
001267 039F D570 FF80 18210 AND CHANEL,=CHMASK
001268 18220 *
001269 03A1 6C18 18230 LDV $R6,$ISTS1 CLEAR OUT THE 1ST STATUS WORD
001270 03A2 E455 18240 OR $R6,=CHANEL
001271 03A3 8057 18250 IO =$R7,=$R6
001272 18260 *
001273 03A5 6C1A 18270 LDV $R6,$ISTS2 DO LIKEWISE WITH THE 2ND
001274 03A6 E455 18280 OR $R6,=CHANEL EVEN THOUGH WE DON'T GIVE A RATS
001275 03A7 8057 18290 IO =$R7,=$R6
001276 03A8 0056
001276 03A9 8386 18300 JMP TRNS AMF

```

001277			18310 /EJECT			
001278			18320 *	DCW LIST IS PRESET FOR CONFIG STATUS READ **		
001279			18330 DCW	RESV	0	GENERAL IOLD DCW LIST
001280	03AA	3000	18340 D\$OPMD	DC	=DWCNFG*Z'0100'	ASCII READ CONFIG
001281	03AB	0002	18350 D\$TAL	DC	=TWO	TALLY WORD
001282	03AC	0000 0000	18360 D\$66AD	RESV	2,Z'0000'	L66 MBX ADDRESS
001283	03AE	0000	18370	DC	Z'0000'	UPPER PART OF L6 ADDRESS (0)
001284	03AF	03C4	18380 D\$6AD	DC	<MBX66	L6 IOLD ADDRESS
001285			18390 *			
001286	03B0	3800	18400 D\$DIS	DC	=DWDSCI*Z'0100'	DISCONNECT&INTERRUPT
001287	03B1	0000	18410	RESV	5,Z'0000'	
001288			18420 *			
001289			18430 *	STATUS CELLS		
001290			18440 *			
001291	03B6	8000	18450 GSTAT	DC	Z'8000'	GOOD GSTAT
001292	03B7	0000	18460	RESV	4,Z'0000'	
001293			18470 *			
001294	03B8	0000	18480 MBX	RESV	9,Z'0000'	MBX AREA
001295		0004	18490 STOFF	EQU	4	WORD OFFSET TO L66 STATUS PTR
001296			18500 *			
001297	03C4	0000 0000	18510 MBX66	RESV	2,Z'0000'	WHERE L66 MBX IS

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001298  
 001299  
 001300  
 001301  
 001302 03C9  
 001303 03C6 0000  
 001304  
 001305 03CD 4254  
           03CE 4C44  
 001306 03CF 0000  
 001307 03D0  
 0000 ERR COUNT  
 02200 WORD SYMBOL TABLE

99990 /EJECT  
 99991 \*  
 99992 \*FORCE ALL MODULES TO BE UMOD8 IN LENGTH  
 99993 \*  
 99994 E\$ENDR EQU \$-S\$BTLD+3  
 99995 RESV ((E\$ENDR+7)/8)\*8-E\$ENDR,Z'0000'  
 99996 \*  
 99997 DC 'BTLD' MNEUMONIC NAME OF MODULE  
 99998 E\$BTLD DC <S\$BTLD START OF ROUTINE  
 99999 END BTLD SOFTWARE







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N \$IOLDI	33					
\$IOLD0	34	866	1210	1237		
\$ISTS1	28	1269				
\$ISTS2	29	1273				
\$IV	****	1263				
N \$IVB1	233					
N \$IVDEV	228					
N \$IVECT	570					
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	616	695	815		
N \$LVDIS	265					
\$LVDSX	266	1193	1220	1246		
\$LVENT	264	267	620			
N \$LVEXE	263					
\$LVEXI	261	598	971	1192	1214	1241
\$LVSCH	262	597				
\$M1	****	805	806			
N \$M1JRS	272					
N \$M1JST	271					
\$M1JTS	273	805				
\$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					



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N \$TV10	556				
N \$TV11	555				
N \$TV12	554				
N \$TV13	553				
N \$TV14	552				
\$TV15	551	829	875	1150	1167
N \$TV16	550				
N \$TV17	549				
N \$TV18	548				
N \$TV19	547				
N \$TV20	546				
N \$TV21	545				
N \$TV22	544				
N \$TV23	543				
N \$TV24	542				
N \$TV25	541				
N \$TV26	540				
N \$TV27	539				
N \$TV28	538				
N \$TV29	537				
N \$TV30	536				
N \$TV31	535				
N \$TV32	534				
N \$TV33	533				
N \$TV34	532				
N \$TV35	531				
N \$TV36	530				
N \$TV37	529				
N \$TV38	528				
N \$TV39	527				
N \$TV40	526				
N \$TV41	525				
N \$TV42	524				
N \$TV43	523				
N \$TV44	522				
N \$TV45	521				
N \$TV46	520				
N \$WDTMR	513				
ADJUST	900	910	921	924	
N ALBT	605				
N ASCMOD	429				
N ASYID	341				
BADSTS	1093	1124			
BASE	472	927	943	950	963 1053
N BCDMOD	430				
BINMOD	431	1198	1223		
N BISID	342				
N BKRDTA	329				
BOOTIT	606	638			
BTINH	817	854			
BTLDCH	39	607	827	863	1148
BTWAIT	618	612	619		



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DVMASK	1159	1160						
DW66T6	422	1198						
DW6T66	421	1223						
DWCNFG	423	1280						
DWDSCI	420	1286						
E\$BTLD	1306	2						
E\$ENDR	1302	1303						
EIGHT	907	916						
ENDING	585	975						
ENDO	975	920	922	930	932	944	964	
ERRIV	666	571						
N ERRLEV	278							
N ESCDTA	328							
N ESCQTL	327							
N ETEST	822							
FINDSC	1143	610						
FORMAT	982	947	967					
N FPTR	45							
FRSTCK	316	317						
GETSTS	1261	1195	1221	1247				
GOBOOT	596	593						
GSTAT	1291	1234						
H66DTA	370	371						
H66SPC	407	854	882					
H66TRM	406	854	882	1249				
HALTS	1094	1127						
N HANGLV	281							
HEADRS	460	1004						
HLTP01	808	565						
HLTP02	804	564						
HLTP03	802	563						
HLTP04	800	562						
HLTP05	798	561						
HLTP06	796	560						
HLTP07	794	559						
HLTP08	792	558						
HLTP09	790	557						
HLTP10	788	556						
HLTP11	786	555						
HLTP12	784	554						
HLTP13	782	553						
HLTP14	780	552						
HLTP15	778	551						
HLTP16	776	550						
HLTP17	774	549						
HLTP18	772	548						
HLTP19	770	547						
HLTP20	768	546						
HLTP21	766	545						
HLTP22	764	544						
HLTP23	762	543						
HLTP24	760	542						





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IOWDS	368	369				
N IOXFR	443					
N ITEST	819					
N L66RDC	396					
N L66WTC	397					
L6BUFR	369	370				
N L6RSET	391					
N LASTCH	40					
LENGTH	1074	1057				
N LPTR	46					
LSTSTS	376	377				
N LTLONG	309					
MARK	898	901				
MASK	1095	1119				
MBX	1294	1207	1229			
MBX66	1297	1204	1284			
MBXLOC	371	372				
MBXPKG	372	373				
N MBXRD	442					
MBXWDS	399	1201				
N MCPLEV	284					
N MFLAGS	304					
N MSBMOD	434					
N MSGLEV	291					
N NETLEV	287					
NEXTCH	1140	871	1171			
NODISC	1139	1177				
NORMAL	821	861				
NSBERR	303	304				
NXTCHL	1170	1157	1162			
O\$ADDR	475	997	1067			
N O\$CNTL	481					
O\$CWA	477	998	1068			
N O\$CWB	478					
N O\$INTC	479					
O\$RANG	476	997	1067			
O\$TASK	480	998	999	1069	1070	
N ODDRW\$	496					
N ODRW\$	497					
OFRMT\$	494	1008				
OMSGFB	356	357				
OMSGFP	357	358				
OMSGLB	358	359				
OMSGLP	359	360				
ONE	463	925	931	937	949	959
N ONESEC	295					
N ORCAL\$	492					
ORW\$	495	1079				
OSEEK\$	493	1006	1077			
N OWRAP\$	498					
PSBCLK	352	353				
PSBCNT	353	354				



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N TIME 906  
 N TLAMOD 432  
 N TLBMOD 433  
 N TLCMOD 435  
 N TLDMOD 436  
 TRACK 469 940 949 958 1055  
 TRAPER 812 810  
 TRKEND 1039 951  
 TRKLBL 1012 952 1003  
 TRKNO 1005 986  
 TRKNUM 1075 1055  
 TRKSIZ 461 934  
 TRMINT 1191 682 1254  
 TRNS 471 609 610 876 887 947 948 967 968 970 993 1063 1168 1176 1195 1221 1247 1276  
 N TRPCLK 311  
 TRPDIE 814 812  
 TSABK0 703 510  
 TSABK1 706 703  
 TSABK2 709 706  
 TSAOVR 694 660  
 TSOVIV 655 573  
 N TSOVLV 280  
 TWO 464 1281  
 U 501 997 998 999 1000 1067 1068 1069 1070  
 N UHOH 1175  
 N UNEDIT 324  
 USERQ 348 349  
 N USRDTA 48  
 N UWORD 51  
 N WATLEV 283  
 N WDTLEV 279  
 WRITE 1046 948 968  
 WRITLP 942 956  
 ZERO 462 911 940 1105  
 529 LABELS  
 669 REFERENCES  
 1307 RECORDS  
 0 U FLAGS  
 4 M FLAGS  
 279 N FLAGS  
 3672 WORD CROSS REFERENCE TABLE

