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12/21/81 14:05:34 PRINTOUT #597

DENNIS HAUGH

```
000001                                  2  TITLE SINT SOFTWARE
000002                                  4  XDEF E$SINT        NEEDED FOR MODULE MAP
                0127
000003                0000              5 S$SINT EQU $       START OF MODULE SINT
```

```
000004                          1000 /EJECT
000005                          1010 *
000006                          1020 *IO DRIVERS
000007                          1030 *
000008  0000                    1040 $IOCH0 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 $IOLD+$IOCH0            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 CPU0CH 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 $ASC0 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 $S10 EQU 0          LEVEL6 CODING FOR SPEED TABLES
000150  0002                2097 $S15 EQU 2
000151  0003                2098 $S30 EQU 3
000152  0004                2099 $S60 EQU 4
000153  0005                2100 $S120 EQU 5
000154  0006                2101 $S180 EQU 6
000155  000A                2102 $S240 EQU 10
000156  000B                2103 $S480 EQU 11
000157  000C                2104 $S960 EQU 12
000158  000D                2105 $S1920 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$EOO EQU Z'0043'                    MAINFRAME LOGICAL END OF OUTPUT
000171  0044                2118 SM$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 INSTRUCION 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 $LVDIE 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       ASYNC MLCP LINE CARD
000285  000A                    3095 SX25LV EQU 10      SYNC 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      SYNC 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)
```

```
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 IGNNSB 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 IGNDEL 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
```

```
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 COUPSL EQU CPLRLV+1                   SPECIAL INTERRUPT (FROM HIS6600)
000415  0012            5730 COUPTL EQU COUPSL+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
```

```
000437                          5950 /EJECT
000438                          5960 *
000439                          5970 *PENDING STATES FOR COUPLER SOFTWARE
000440                          5980 *
000441          0000            5990 CIDLE EQU 0        IDLE
000442          0001            6000 MBXRD EQU 1        MBX READING STATE
000443          0002            6010 IOXFR EQU 2        IO TRANSFER STATE
000444          0003            6020 STSWT EQU 3        STATUS WRITE STATE
000445          0004            6030 CFGRD EQU 4        CONFIGURATION READ
```

```
000446                                  10000 /EJECT  ** STANDALONE FOR L6 TO INTERRUPT L66 WITH SPECIAL **
000447                                  10010 ************************************************************
000448                                  10020 *    THIS PROGRAM IS READ IN FROM DISKETTE
000449                                  10030 *       FOR THE SOLE PURPOSE OF INTERRUPT THE L66 AT LEVEL 7
000450                                  10040 *
000451                                  10050 *    IT DOES THE FOLLOWING
000452                                  10060 *      1. INITIALIZE THE COUPLER ON 400 (HEX)
000453                                  10070 *      2. WRITES TASK REG TO SET L66 INTERRUPT LEVELS
000454                                  10080 *      3. SENDS THE SPECIAL INTERRUPT
000455                                  10090 ************************************************************
000456                                  10100 *
000457          0080                    10105 NORMAL   EQU      Z'0080'             NORMAL, OPERATIONAL TO L66
000458          0020                    10110 CHANEL   EQU      $R2                 CHANNEL FOR COUPLER
000459          8000                    10120 QLT      EQU      Z'8000'             BIT FOR COUPLER QLT
000460                                  10130 *
000461  0100                            10140          ORG      $+X'0100'           START AT BOOTSTRAP XFER LOC
000462  0100  A870 0400                 10150          LDR      CHANEL,=BTLDCH      SET FOR 0400 COUPLER
000463                                  10160 *
000464  0102  6C41                      10170          LDV      $R6,$OTCTL+$IOCH1   SET OUTPUT CONTROL
000465  0103  E452                      10180          OR       $R6,=CHANEL
000466  0104  8070 8000                 10190          IO       =QLT,=$R6           INITIALIZE COUPLER
        0106  0056
000467                                  10200 *
000468                                  10210 $A       RESV     0
000469  0107  6C47                      10220          LDV      $R6,$TSKRO+$IOCH1   WRITE TASK REG
000470  0108  E452                      10230          OR       $R6,=CHANEL
000471  0109  8070 1F00                 10240          IO       =H66TRM*Z'0800'+H66SPC*Z'0100',=$R6   SET L66 INTERRUPT LEVELS
        010B  0056
000472  010C  07FB           T         10250          BIOF     >-$A                WAIT FER THAT MUTHA TO FINISH INITIALIZING
000473                                  10260 *
000474  010D  6C43                      10270          LDV      $R6,$ICTLO+$IOCH1   SET CPU CHANNEL & TI LEVEL
000475  010E  E452                      10280          OR       $R6,=CHANEL         USE CHANNEL 0400 HEX
000476  010F  8070 0012                 10290          IO       =CPUOCH*Z'0040'+COUPTL,=$R6
        0111  0056
000477                                  10291 *
000478  0112  6C51                      10292          LDV      $R6,$CFGAO+$IOCH1   SET SPECIAL LEVEL & NORMAL MODE
000479  0113  E452                      10294          OR       $R6,=CHANEL
000480  0114  8070 0091                 10296          IO       =COUPSL+NORMAL,=$R6
        0116  0056
000481                                  10297 *
000482                                  10300 *
000483  0117  7C07                      10310          LDV      $R7,H66SPC
000484  0118  E870 00C3                 10320          LDR      $R6,=INTH66
000485  011A  E452                      10330          OR       $R6,=CHANEL
000486  011B  8057                      10340          IO       =$R7,=$R6           GIVE THE L66 A SWIFT KICK!
        011C  0056
000487                                  10350 *
000488  011D  8E70 803F                 10360          LEV      =$LVEXI             HOSE IT
```

```
    000489                                      99990 /EJECT
    000490                                      99991 *
    000491                                      99992 *FORCE ALL MODULES TO BE 0MOD8 IN LENGTH
    000492                                      99993 *
    000493                0122                  99994 E$ENDR EQU $-S$SINT+3
    000494  011F          0000                  99995  RESV ((E$ENDR+7)/8)*8-E$ENDR,Z'0000'
    000495                                      99996 *
    000496  0125  5349                          99997  DC 'SINT'          MNEUMONIC NAME OF MODULE
            0126  4E54
    000497  0127  0000                          99998 E$SINT DC <S$SINT  START OF ROUTINE
    000498  0128                                99999  END SINT SOFTWARE
0000 ERR COUNT
01336 WORD SYMBOL TABLE
```

```
   $          ****      3   461   493
   $A          468   472
N  $ACCE       135
N  $ACCX       136
N  $ACCZ       137
N  $ASC0        66
N  $ASC1        67
N  $ASC2        68
N  $ASC3        69
N  $ASC4        70
N  $ASC5        71
N  $ASC6        72
N  $ASC7        73
N  $ASC8        74
N  $ASC9        75
N  $ASCA        79
N  $ASCAP      111
N  $ASCAS      114
N  $ASCAT      126
N  $ASCB        80
N  $ASCBA      129
N  $ASCBS      127
N  $ASCC        81
N  $ASCCM      116
N  $ASCCN      120
   $ASCCR       59    62
N  $ASCD        82
N  $ASCDL      110
N  $ASCDS      117
N  $ASCDT      118
   $ASCE        83   135
N  $ASCEC       61
N  $ASCEM      142
N  $ASCEQ      123
N  $ASCF        84
N  $ASCFF      141
N  $ASCFS      119
N  $ASCG        85
N  $ASCGS      143
N  $ASCGT      124
N  $ASCH        86
N  $ASCHT      139
N  $ASCI        87
N  $ASCJ        88
N  $ASCK        89
N  $ASCL        90
   $ASCLF       60    62
N  $ASCLP      112
N  $ASCLT      122
N  $ASCM        91
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
N $CFGAI     23
  $CFGAO     24   478
N $CFGBI     25
N $CFGBO     26
N $CRLF      62
N $ICTLI     14
  $ICTLO     15   474
N $IDINP     30
N $INMBA     19
N $INMMA     20
N $INRNG     21
  $IOCH0      8    33
  $IOCH1      9    34   464   469   474   478
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
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
```

```
N $LVDIE     267
N $LVDIS     265
N $LVDSX     266
  $LVENT     264   267
N $LVEXE     263
  $LVEXI     261   488
N $LVSCH     262
N $M1JRS     272
N $M1JST     271
N $M1JTS     273
  $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
  $OTCTL      13   464
  $R2       ****   458
  $R6       ****   464   465   466   469   470   471   474   475   476   478   479   480   484   485   486
  $R7       ****   483   486
N $RORO      131
N $S10       149
N $S120      153
N $S15       150
N $S180      154
N $S1920     158
N $S240      155
N $S30       151
N $S480      156
N $S60       152
N $S960      157
N $SMAX      160
N $SRGP3     256
  $TSAA      247   249   251
N $TSAB3     250
```

```
N $TSACM    245
N $TSAI     243
N $TSAL     242
N $TSALN    253
  $TSAP     248   249
N $TSAPX    249
N $TSAR3    244
N $TSATM    251
N $TSAWD    252
N $TSAZ     246
N $TSKRI     17
  $TSKRO     18   469
N ASCMOD    429
N ASYID     341
N BCDMOD    430
N BINMOD    431
N BISID     342
N BKRDTA    329
  BTLDCH     39   462
N BUFBSY    387
N CFGRD     445
  CHANEL    458   465   470   475   479   485
N CIDLE     441
  CIVDEV    375   376
  CNSLEV    289   290
N COUPID    339
  COUPSL    414   415   480
  COUPST    350   352
  COUPTL    415   416   476
N COUPWL    416
N CPBFLN    401
  CPFLGS    349   350
N CPLRBL    381
  CPLRLV    286   414
  CPUOCH     38   476
  CURBUF    301   302
  CURLEN    302   303
N DBGLEV    292
N DCWLEN    425
  DCWLST    379   381
  DEADCT    354   356
N DEVLEV    293
N DISKID    340
N DW66T6    422
N DW6T66    421
N DWCNFG    423
N DWDSCI    420
  E$ENDR    493   494
  E$SINT    497     2
N ERRLEV    278
N ESCDTA    328
N ESCQTL    327
```

```
   S$SINT      3   493   497
N  SBSCLV    288
   SCNDCK    317   318
N  SLRDCK    388
N  SM$000    165
N  SM$DL0    176
N  SM$DL1    177
N  SM$DL2    178
N  SM$DL3    179
N  SM$DL4    180
N  SM$DL5    181
N  SM$DL6    182
N  SM$DL7    183
   SM$DLY    175   176   177   178   179   180   181   182   183
N  SM$ECH    167
N  SM$E00    170
N  SM$FRD    171
N  SM$IDY    173
N  SM$MFR    169
N  SM$OM0    186
N  SM$OM1    187
N  SM$OM2    188
N  SM$OM3    189
   SM$OMD    185   186   187   188   189
N  SM$RDO    172
N  SM$ROT    168
   SPICMD    365   366
   SPISTS    377   379
   STATUS    374   375
   STSLOC    373   374
N  STSWDS    400
N  STSWT     444
N  STYFGS    319
N  SWORD      50
N  SX25LV    285
   SYCLEV    290   291
   TAL6      367   368
   TAL66     366   367
N  TLAMOD    432
N  TLBMOD    433
N  TLCMOD    435
N  TLDMOD    436
N  TRPCLK    311
N  TSOVLV    280
N  UNEDIT    324
   USERQ     348   349
N  USRDTA     48
N  UWORD      51
N  WATLEV    283
N  WDTLEV    279
   306 LABELS
   123 REFERENCES
```

```
  498 RECORDS
    0 U FLAGS
    0 M FLAGS
  228 N FLAGS
 1335 WORD CROSS REFERENCE TABLE
```

B**BB**BB**BB**BB**BB**BB**BB**BB**BB**BB**BB**BB**BB* COMPUTER SHARING SERVICES *BB**BB**BB**BB**BB**BB**BB**BB**BB**BB**BB**BB**B3**B
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@@@@@ @   @ @@@@@   @@@@@@ @@   @@@@   @@@   @   @   @

B**BB**BB**BB**BB**BB**BB**BB**BB**BB**BB**BB**BB**BB* COMPUTER SHARING SERVICES *BB**BB**BB**BB**BB**BB**BB**BB**BB**BB**BB**BB**B3**B
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