|   |   | HEATH HEASH V1.4 01/20/78 PAGE 1                                 |
|---|---|--|
|   | •     |  |
|   |   | A ADDENDLE FOR LO A DARR TUTERFLAR                               |
|   | H84IO EQU                                   | O ASSEMBLE FOR H8-4 CARD INTERFACE<br>LINE.PRINTER.DEVICE.DRIVER |
| 4                                       | *   |  |
| 5.                                      | ··*···································      | i C  |
|   |   | sht.79.11.15 for:  |
| 8                                       | *   |  |
| 10                                      | *   | Heath Co.<br>Benton Harbor, MI                                   |
|   |   | 49022  |
| 12                                      | *   |  |
|   |   |  |
| •••••                                   | •     |  |
|   | ** LPDVD I                                  | IS THE DEVICE DRIVER FOR THE DEVICE                              |
| 15                                      | *   | LP:  |
|   | <del></del>                                 | <del></del>  |
|   | *. LP: is                                   | a H-24 printer interfaced via an H-8-4 card (or equivalent,)     |
| 20                                      |   | configured port which may be changed by the set option.          |
|   | ***************************************     |  |
|   |   |  |
|   |   |  |
| 000.000 22                              | XTEXT                                       | HOSDEF   |
|   |   |  |
|   | drafe 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |  |
|   | ** HOSDEF<br>*                              | - DEFINE HOS PARAMETER.  |
| 26X                                     |   |  |
| 27X                                     |   | 2*16+0 VERSIUN 2.0   |
| 29X                                     |   |  |
| 000.377 30X<br>31X                      | SYSCALL EQU                                 | 3770 SYSCALL INSTRUCTION   |
| 32X                                     |   |  |
| 000,000 33X                             |   | 0  |
| 34X<br>35X                              |   | NT FUNCTIONS   |
| 36X                                     |   |  |
| 000,000 37X<br>000,001 38X              | EXIT DS                                     | 1 EXIT (MUST BE FIRST) 1 SCIN                                    |
| 000.002 39X                             | SCOUT DS                                    | 1 SCOUT  |
|   | PRINT DS                                    | 1 PRINT  |
| 000.005 42X                             | READ DS<br>.WRITE DS                        | 1 READ<br>1 WRITE  |
| 900,006 43x                             | CONSL DS<br>.CLRCO DS                       | 1 SET/CLEAR CONSOLE OPTIONS                                      |
| 000,007 44X<br>000,010 45X              | ·CLRCO DS<br>·LOADO DS                      | 1 CLEAR CONSOLE BUFFER 1 LOAD AN OVERLAY                         |
| 000.011 46X                             | .VERS DS                                    | 1 RETURN HDOS VERSION NUMBER                                     |
| 000,012 47X<br>48X                      | \$Y\$RES.I\$                                | 1 PRECEDING FUNCTIONS ARE RESIDENT                               |
| 488                                     |   |  |
|   |   |  |
| *************************************** |   |  |

| HDOS LP: DEVICE DRIVE                   |                     |                 | HEATH H8ASM V1.4 01/20/78 PAGE 2<br>HOSDEF 15:48:29 20-0CT-80 |
|---|---------------------|-----------------|---|
| ************************                |                     |                 |   |
|   | 50X *<br>51X        | *HDOSOVLO.SYS*  | FUNCTIONS   |
| 000.040                                 | 52X<br>53X          | ORG 40A         |   |
| 000.040                                 | 54X √LYNK           | DS 1            | LINK (MUST BE FIRST)  |
| 000.041                                 | 55X .CTLC           | DS 1            | CTL-C   |
| 000.042                                 | 56X OPENR           | DS 1            | OPENR   |
| 000.043                                 | 57X .OPENW          | DS 1            | OPENW   |
| 000.044                                 |                     | DS 1            | OPENU   |
| 000.045                                 | 59X .OPENC          | DS 1            | OPENC   |
| 000.046                                 | 60X .CLOSE          | DS 1            | CLOSE   |
| 000,047                                 | 61X .POSIT.         | DS 1            | POSITION  |
| 000.050                                 |                     | DS 1            | DELETE  |
| 000.051                                 | 63X ∙RENAM          | DS 1            | RENAME  |
| 000.052                                 | 64X ∙SETTF          | DS 1            | SETTOP  |
| 000.053                                 | 65X .DECODE         |                 | NAME DECODE   |
| 000.054                                 | 66X .NAME           | DS 1            | GET FILE NAME FROM CHANNEL                                    |
| 000,055                                 |                     | DS 1            | CLEAR CHAN  |
| 000.056                                 | 68X •CLEARA         |                 | CLEAR ALL CHANS   |
| 000.057                                 | 69XERROR            | DS 1            | LOOKUP ERROR  |
| 000.060                                 |                     | DS 1            | CHANGE FLAGS  |
| 000.061                                 | 71X ∙DISMT          | DS 1            | FLAG SYSTEM DISK DISMOUNTED                                   |
| 000.062                                 |                     | DS 1            | LOAD DEVICE DRIVER  |
| 000.063                                 | 73X • OPEN<br>74X   | DS 1            | Parametrized Open   |
|   |                     |                 |   |
|   | 75X<br>76X *        | *HDOSOVL1.SYS*  | EINCTTONC   |
|   |                     | *UT:020AFT+2124 | LOGE   10169  |
| 000.200                                 | 77X<br>78X          | ORG 200Q        | ·····   |
| 000.200                                 |                     | 010 2000        |   |
| 000.200                                 | TRUCH, XÓS          | DS 1            | MOUNT (MUST BE FIRST)   |
| 000.201                                 | 81X .DMOUN          | DS 1            | DISMOUNT  |
| 000.202                                 | 82X • MONMS         | DS 1            | MOUNT/NO MESSAGE  |
| 000.203                                 | 83X .DMNMS          | DS 1            | DISMOUNT/NO MESSAGE   |
| 000.204                                 | 84X →RESET          | DS 1            | RESET = DISMOUNT/MOUNT OF UNIT                                |
| 000,205                                 | 85X CLEAN           | DS 1            | Clean device  |
| 000.206                                 | 86X .DAD            | DS 1            | Dismount All Disks /80.08.3c/                                 |
| 000.207                                 | 87                  | XTEXT ASCII     |   |
|   |                     |                 |   |
| *************************************** | 89X **              | ASCII CHARACTE  | R EQUIVALENCES.   |
|   | 90X                 |                 |   |
| 000.015                                 | 91X CR              | EQU 13          | CARRIAGE RETURN   |
| 000.012                                 | 92X LF              | EQU 10          | LINE FEED   |
| 000.200                                 | 93X NULL            | EQU 200Q        | PAD CHARACTER   |
| 000.000                                 | 94X NUL2            | EQU 0           |   |
| 000.007                                 | 95X BELL            | EQU 7           | BELL CHARACTER  |
| 900,177                                 | 96X RUBOUT          | EQU 1770        |   |
| 000.010                                 | 97X BKSP            | EQU 10Q         | CTL-H   |
| 292.026                                 |                     | .EQU26Q         | SYNC<br>STX   |
| 000.002                                 | 99X C.STX           | EQU 2           | SIX   |
| 000,047                                 | 100X QUOTE          | EQU 47Q         |   |
| 000.011                                 | 101X TAB            | EQU 11Q         |   |
| 000.033                                 | 102X ESC            | EQU 33Q         | NEW LINE (HDOS SYSTEMS)                                       |
|   |                     |                 |   |
| 000.012<br>000.212                      | 103X NL<br>104X ENL | EQU NL+200      |   |

| HDOS LP: DEVICE DRIV                    | /MIX 11 & Y YEA UZV/                    |   | •••••          | HEATH H8ASM V1.4 01/20/78 PAGE 3<br>ASCII 15:48:30 20-0CT-80 |
|---|---|---|----------------|--|
| • | *************************************** |   |                |  |
| 000.014                                 | 105X FF                                 | EQU                                     | 14Q            | FORM FEED  |
|   | 106X.CTLA                               |   | 01.0           | CTL-A  |
| 000.002                                 | 107X CTLB                               | EQU                                     | 020            | CTL-B  |
|   |   | EQU                                     | 0.3Q           | CIL-C  |
| 000.004                                 | 109X CTLD                               | EQU                                     | 04Q            | CTL-D  |
| 000.017                                 | 119X. GILD                              | <u>E</u> gy                             | 179            | CŢL-0  |
| 000.020                                 | 111X CTLP                               | EQU                                     | 200            | CTL-P  |
| 000,021                                 |   | <u>Egy</u>                              | <u>21</u> 0    | CTL-Q  |
| 000.023                                 | 113X CTLS                               | EQU                                     | 230            | CTL-S  |
| 000.032                                 | 114X CTLZ                               | EQU                                     | 320            | CTL-Z  |
| 000,207                                 | 115                                     | XTEXT                                   | DDDEF          |  |
|   |   |   |                |  |
|   | 117X **                                 | DEVICE                                  | DRIVER COMMUN  | NICATION FLAGS.  |
|   | 118X *                                  |   |                |  |
| 222 222                                 | 119X                                    |   |                |  |
| 000,000                                 | 120X<br>121X                            | 0RG                                     |                |  |
| 000.000                                 | 122X DC.REA                             | DS                                      | 1.             | READ   |
| 000.001                                 | 123X DC.WAI                             |   | ····i······i   | WRITE  |
| 000,002                                 | 124X DC⋅RER                             | DS                                      | 1              | READ REGARDLESS  |
| 000.003                                 | 125X DC.OPR                             |   | ···            | OPEN FOR READ  |
| 000.004                                 | 126X DC.OPW                             | DS                                      | î              | OPEN FOR WRITE   |
| 000.005                                 | 127X DC.OPU                             |   | ···i·····      | OPEN FOR UPDATE  |
| 000,006                                 | 128X DC.CLO                             |   | 1              | CLOSE  |
| 000.007                                 | 129X DC.ABT                             |   | ····i·····     | ABORT  |
| 000,010                                 | 130X DC.MOU                             | DS                                      | 1              | MOUNT DEVICE   |
| 000.011                                 | T31X DC.LOD                             |   | <u>i</u>       | LOAD DEVICE DRIVER   |
| 000.012                                 | 132X DC.RDY                             | DS                                      | 1              | Device Ready /80.04.6C/                                      |
| 000.013                                 | 133X DC:WAX                             | pg                                      | ·····ī·······ī | MAXIMUM ENTRY INDEX  |
| 000.014                                 | 134                                     | XTEXT                                   | MTR            | CONTRACT MASSES ASSAULTS                                     |
|   | •••••                                   |   |                |  |
|   |   |   | •••••          |  |
|   |   |   |                |  |
|   |   |   |                |  |
|   |   | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | *********      |  |
|   | ••••••                                  | **********                              |                |  |
| *************************************** |   | •••••                                   |                |  |
|   | •••••                                   | •••••                                   | •••••          |  |
| ••••••                                  |   |   |                |  |
| ••••••••••••••••••••••••••••••••••••••• |   | · • • • • • • • • • • • • • • • • • • • |                |  |
| •••••                                   | •••••                                   |   |                | •••••••••••••••••••••••••••••••••••••••                      |
| *************************               | *************************************** |   |                | •••••••••••••••••••••••••••••••••••••••                      |
|   |   |   |                |  |
|   |   |   |                |  |
|   |   |   |                |  |
|   |   |   |                |  |

| HDOS LP: DEVICE DRIVER, H<br>PAM/8 EQUIVALENCES, | -24 (TI 810)                |   | HEATH H8ASM V1.<br>15:48:31 20-00                                |   |
|--|-----------------------------|---|--|---|
| (  | 137X **                     | MTR - PAM/8 EQUIVALENC                  | DES.   |   |
|  | 138X *<br>139X *            | THIS DECK CONTAINS SYN                  | ABOLIC DEFINITIONS USED TO                                       |   |
| · ·  | 140X *                      | MAKE USE OF THE PAM/8                   | CODE AND CONTROL BYTES.  |   |
|  |                             |   |  |   |
| (  | 142X **                     | IO PORTS                                |  |   |
| 000,360  | 143X<br>144X IP.PAD         | EQU 360Q                                | PAD INPUT PORT   |   |
| 000,360  | 145X OP.CTL                 |   | CONTROL OUTPUT PORT  |   |
| 000,360  | 146X OP.DIG                 |   | AIGIT SELECT OUTPUT PORT.  |   |
| ( 000.361  | 147X OP.SEG                 |   | SEGMENT SELECT OUTPUT PORT                                       |   |
| 000.362<br>000.362                               | 148X IP.CON<br>149X OP2.CT  | EQU 362Q<br>L EQU 362Q                  | H-88/H-89/HA-8-8 Configuration.<br>H-88/H-89/HA-8-8 Control Port | /80.07.sc/                              |
| · · · · · · · · · · · · · · · · · · ·            |                             |   |  |   |
|  |                             |   |  |   |
| (  | 151X **                     | FRONT PANEL CONTROL BI                  | TS.  | /80.07.sc/                              |
| •••••  | 152X *                      | CB.* set in OP.CTL                      | •                          |   |
|  | 154X *                      | CB2.* set in OF2.CTL                    |  |   |
| · · · · · · · · · · · · · · · · · · ·            | 155X *                      |   | ,  |   |
| ***************************************          | 156X                        | *************************************** |  | ····                                    |
| 000.020  | 157X CB.SSI<br>158X CB.MTL  |   | SINGLE STEP INTERRUPT  |   |
| 000.100  | 159X CB.CLI                 |   | MONITOR LIGHT CLOCK INTERRUPT ENABLE                             |   |
| 000.200  | 160X CB.SPK                 |   | SPEAKER ENABLE   |   |
|  | 161X                        |   | to the first that to the first the land                          | ••••••                                  |
| 000.001  | 162X CB2.SS                 |   | Single Step Interrupt  |   |
| 000.002  | 163X CB2.CL                 |   | Clock Interrupt Enable   |   |
| 000.040  | 164X CB2.OR0<br>165X CB2.S1 |   | ORG O Select<br>Side 1 Select                                    |   |
|  |                             |   | orde I belect  |   |
|  | 167X **                     | Secondary Control Bits                  | ····i·······   |   |
|  | 168X                        |   | ,  |   |
|  |                             |   |  |   |
| •••••  | 170X **                     | MONITOD MODE ELAGO                      |  |   |
| •••••••••  | … <u>i</u> ∮ĭŷ∵îĭ           | MONITOR MODE FLAGS.                     |  |   |
| 000.000  | 172X DM.MR                  | EQU 0                                   | MEMORY READ  |   |
| 000.001  | 173X DM.WW                  | EQU 1                                   | MÉMORY WRITE   |   |
| 000.002  | 174X DM.RR                  | EQU 2                                   | REGISTER READ  |   |
| 000.003  | 175X DM.RW                  | EQU 3                                   | REGISTER WRITE   |   |
| .,   |                             | •••••                                   | ····   |   |
| ***************************************          |                             | • |  |   |
| ••••••••••                                       |                             |   | ***************************************                          |   |
|  |                             | •••••                                   |  |   |
|  |                             |   |  |   |
|  |                             |   |  | ••••••                                  |
|  |                             |   |  | ••••••••••••••••••••••••••••••••••••••• |

| AM/B.EQUIVALENCES.                      |                            | • |   |   |
|---|----------------------------|---|---|---|
| ••••••                                  |                            | Heed                                    | OPTION BITS.                            |   |
| • | 178X *                     | USEK                                    | OLITON BILLS.                           |   |
| ,                                       | 179X *                     | THESE                                   | BITS ARE SET IN                         | CELL .MFLAG.  |
| 000,200                                 |                            | T FOU                                   | 10000000B                               | DISABLE HALT PROCESSING   |
| 000.100                                 | 182X UQ.NF                 | R. EQU                                  | CB.CLI                                  | NO REFRESH OF FRONT PANEL   |
| 000.002<br>000.001                      | 183X UO.DD                 |   | 00000010B                               | DISABLE DISPLAY UPDATE  |
|   | 184X UO.CL                 | VŧŔń                                    | 00000001B                               | ALLOW PRIVATE INTERRUPT PROCESSING  |
|   | 186X **                    | MONTT                                   | OR IDENTIFICATION                       |   |
| ********************                    | 187X ¥                     | !!?!!!#.!                               | ON TELEVITETORITO                       | t FEHUS   |
| *************************************** | 188X *                     | THESE                                   | BYTES IDENTIFY                          | HE ROM MONITOR.   |
|   | 189X *<br>190X             | THEY                                    | ARE THE VARIOUS (                       | ALUES OF LOCATION .IDENT  |
| 000.021                                 | 191X M.PAM                 | R FAII                                  | 021Q                                    | 'LXI' INSTRUCTION AT 000.000 IN PAM-8                                       |
| 000.303                                 | 192X M.FOX                 | ĒᾶŬ                                     | 3030                                    | /JMP/ INSTRUCTION AT 000.000 IN FOX ROM                                     |
|   |                            | Confi                                   | Suration Flags                          | /80.07.sc/  |
| • | 195X *                     |   |   |   |
|   | 196X ¥<br>197X ¥           | These                                   | bits are read in                        | IP.CON.   |
| •••••••••••                             | 198X                       | ••••••                                  | • |   |
| 000.003                                 | 199X CN.17                 |   | 00000011B                               | Fort 1740 Device-Type Mask  |
| 000.014                                 | 200X CN.170                |   | 00001100B                               | Port 1700 Device-Type Mask  |
|   | 201X CN.FR:<br>202X CN.MEI |   | 0010000B                                | Primary/Secondary: 1=>primary == 1700                                       |
| 000.100                                 | 203X CN.BA                 |   | 0100000B                                | Memory Test/Normal Switch: 0=>Test; 1=>Normal Baud Rate: 0=>9600; 1=>19,200 |
| 202: 502                                | 204X CN. ABO               | )EGA                                    | 10000000B                               | Auto-Boot: 1=>Auto-Boot   |
|   | 205X                       | rayr rawyayayr r r r                    | *********************                   |   |
| 000.000                                 | 206X CND H:<br>207X CND NI |   | OOB                                     | H-17 Disk, Valid only in CN.174M  |
|   | 208X CND.H                 |   | 01B                                     | No Device Installed, Valid only in CN.170M<br>N-47 Disk                     |
|   | •••••                      |   | ••••••••••••••••••••••••••••••••••••••• | ······  |
| •••••                                   | 210X **                    | ROUTIN                                  | NE ENTRY POINTS.                        |   |
|   | 211X *                     |   |   |   |
| 202:202                                 | 212X<br>213X VIDENT        | F6U                                     |   | IDENTIFICATION LOCATION   |
| 000.053                                 | 214X .DLY                  | EQU                                     | 0053A                                   | DELAY   |
| 001:287                                 | 215X .LOAD                 | EQU                                     | 1267A                                   | TAPE LOAD   |
| 001.374                                 | 216X DUMP                  | EQU                                     | 1374A                                   | TAPE DUMP   |
| 002.136                                 | 217X ALARY                 |   | 2136A                                   | ALARM ROUTINE   |
| 002.140                                 | 218X .HORN<br>219X .CTC    | EQU                                     | 2140A<br>2172A                          | HORN  |
| 002.205                                 | 220X .TPERR                |   | 21/28<br>2205A                          | CHECK TAPE CHECKSUM<br>TAPE ERROR ROUTINE                                   |
| 002.264                                 | 221X .PCHL                 | EQU                                     | 2264A                                   | PCHL INSTRUCTION  |
| 002.265                                 | 222X •SRS                  | EQU                                     | 2265A                                   | SCAN RECORD START   |
| 002.325                                 | 223X .RNF                  | EQU                                     | 2325A                                   | READ NEXT PAIR  |
| ************                            | 224X -RNB                  | EQU                                     | 2331A                                   | READ NEXT BYTE  |

| PARI/S COUTUALENCES.  003:347  225X CRC EQU 2347A  003:017  225X UNP EQU 30:17A  |   | #R7 H-24 (TT 816)                      |                             | HEATH H8ASM V1.4 01/20/78 MAGE & |
|--|---|--|-----------------------------|----------------------------------|
| 1002.1347   225Y   CRC   EQU   2337A   CRC   10 YALLULATOR   |   | and the second                         |                             |                                  |
| 003.017  |   |  |                             |                                  |
| 003.017  |   |  | •                           |                                  |
| 003.017  | 002:347                                 | 225X VORC EC                           | 2347A                       | CRC-16 CALCULATOR                |
| 003.024  |   |  |                             |                                  |
| 003.122  |   |  |                             |                                  |
| 003.266   229X RCK   EUU   3256A   READ ECHESTEE   |   |  |                             |                                  |
| 230X **  |   |  |                             |                                  |
| 232X   ##   RAM CELLS USED BY HSMTR.   |   |  |                             |                                  |
| 2334   | 003.356                                 | 230X .DODA E0                          | RU 3356A                    | SEGMENT CODE TABLE               |
| 2334   |   |  |                             |                                  |
| 2334   |   |  |                             |                                  |
| 2334   | *************************************** |  |                             |                                  |
| 235X   START   EQU   40000A   START   EQU   |   |  | AM CELLS USED BY H          | BMTR.                            |
| 040.000 235  |   | 233X X                                 |                             |                                  |
| 040.002  |   | 234X                                   |                             |                                  |
| 040.005  | 040.000                                 | 235X VSTART LEG                        | RU40000A                    | START DUMP ADDRESS               |
| 040.005  | 940.002                                 | 236X JOWRK FO                          | 3H 40002A                   | IN OR OUT INSTRUCTION            |
| 040.006 238  |   |  |                             |                                  |
| 040.007  |   |  |                             |                                  |
| 040.010 240X .NFLAS EQU 40010A USER DFTION BYTE 040.011 241X .CTLFLG' EQU 40011A PAREL CONTROL BYTE 040.013 242X .ALEDS EQU 40013A ABUSS LEDS 040.021 243X .DLEDS EQU 40021A BUSS (EDS 040.024 244X .ABUSS EQU 40024A ABUSS REGISTER 040.024 244X .ABUSS EQU 40024A ABUSS REGISTER 040.031 244X .TECREY EQU 40031A TAPE ERROR EXIT VECTOR 040.031 244X .TECREY EQU 40031A TAPE ERROR EXIT VECTOR 040.035 248X .REGPTR EQU 40035A CLOCK TICK .DUNNTER 040.035 248X .REGPTR EQU 40035A REGISTER POINTER 040.037 249X .QTOPEC EQU 40037A USER .INTERNOT VECTOR 040.044 250X .NMIRET EQU 4004A HBB/HB9 .NMI RETURN Address /80.07.sc/ 040.064 250X .NMIRET EQU 4004A HBB/HB9 .NMI RETURN Address /80.07.sc/ 040.064 251X .CTLZFL' EQU 4004A HBB/HB9 .NMI RETURN ADdress /80.07.sc/ 040.064 250X .NMIRET EQU 4004A USER .NMI RETURN ADDRESS /80.07.sc/ 040.064 251X .CTLZFL' EQU 4004A USER .NMI RETURN ADDRESS /80.07.sc/ 040.064 252X .SGRTO EQU 24000A SYSTEM AREA FOR GRTO 025.000 255X S.GRTO EQU 24000A SYSTEM AREA FOR GRTO 025.000 255X S.GRTO EQU 24000A SYSTEM AREA FOR GRTO 025.000 255X S.GRTO EQU 24000A SYSTEM AREA FOR GRT2  030.000 261X ROMBOOT EQU 30000A ROM BOOT ENTRY  040.100 263X DRG 40100A FREE SPACE FROM PAM-B  040.100 263X DRG 40100A FREE SPACE FROM PAM-B  040.110 266X ID. CONTROL EQU 30000A SYSTEM EXAMINED EXTENSION EXTENSI |   |  |                             |                                  |
| 040.011 241X CTLFLE EQU 40013A PAREL CONTROL BYTE 040.013 242X ALEDS EQU 40013A ABUSS LEDS 040.021 243X DILENS EQU 40021A DRUSS LEDS 040.024 243X ABUSS EQU 40024A ABUSS REDS 040.027 245X CRCSUM EQU 40024A ABUSS REDSTER 040.021 245X CRCSUM EQU 40024A ABUSS REDSTER 040.021 245X CRCSUM EQU 40031A TAPE REROR EXIT VECTOR 040.031 246X FERRX EQU 40031A TAPE REROR EXIT VECTOR 040.033 247X TITCCNT EQU 40035A LLOCK TICK COUNTER 040.035 246X REGETR EQU 40035A REGISTER POINTER 040.037 249X OUTVEC EQU 40037A USER INTEROPT VECTORS 040.064 250X INFIRET EQU 4006AA HBS/HBS NRI RETUR ADDRESS /80.07.sc/ 040.064 250X CTLFLE EQU 4006AA HBS/HBS NRI RETUR ADDRESS /80.07.sc/ 040.066 251X CTLFLE EQU 4006AA DP2.CTL CONTROL BYTE YEAR YEAR YEAR YEAR YEAR YEAR YEAR YEA   | · · · · · · · · · · · · · · · · · · ·   |  |                             |                                  |
| 040.013  |   |  |                             |                                  |
| 040.021  | 040;011                                 | 241X TCTLFLG E0                        | NU40011A                    | PANEL CONTROL BYTE               |
| 040.021 243X .DLEDS EQU 40021A BBUSS .EDS 040.024 244X .ABUSS EQU 40024A ABUSS REGISTER 040.027 245X .CRCSUM EQU 40021A TAPE ERROR EXIT VECTOR 040.031 246X .TPERRX EQU 40031A TAPE ERROR EXIT VECTOR 040.033 247X .TICCNT EQU 40033A CLOCK .TICK .COUNTER 040.035 248X .REGPITE EQU 40035A CLOCK .TICK .COUNTER 040.037 249X .UIVEC EQU 40037A BEGISTER POINTER 040.037 249X .UIVEC EQU 40037A USER INTERRUPT VECTORS 040.040 250X .MMIRET EQU 4004AA HB8/HB9 NHI RETURN Address /80.07.sc/ 040.086 251X .CTL.2FL EQU 4004AA HB8/HB9 NHI RETURN Address /80.07.sc/ 000.014 252 XTEXT HOSEQU 0P2.CTL Control Byte /80.07.sc/ 000.014 252 XTEXT HOSEQU 0P2.CTL Control Byte /80.07.sc/ 024.000 255X S.GRTO EQU 24000A SYSTEM AREA FOR GRTO 025.000 255X S.GRTO EQU 24000A SYSTEM AREA FOR GRTO 026.000 255X S.GRTO EQU 24000A SYSTEM AREA FOR GRTO 026.000 255X S.GRTO EQU 24000A SYSTEM AREA FOR GRTO 026.000 255X S.GRTO EQU 26000A SYSTEM AREA FOR GRTO 026.000 255X S.GRTO EQU 26000A SYSTEM AREA FOR GRTO 026.000 255X S.GRTO EQU 26000A SYSTEM AREA FOR GRTO 026.000 255X S.GRTO EQU 30000A ROM BOOT ENTRY 040.100 265X DRG 40100A FREE SPACE FROM PAM-8 040.100 265X DRG 40100A FREE SPACE FROM PAM-8 040.100 265X DR B JUMP TO SYSTEM EXIT 040.110 266X D.COM BS 16 DISK CONSTANTS OUNTS OUT OF THE CONSTANTS OUNTS OUT OF THE CONSTANTS OUNTS OUT  | 040.013                                 | 242X ALEDS EC                          | U 40013A                    | ABUSS LEDS                       |
| 040.024 244X .ABUSS EQU 40027A ABUSS REGISTER 040.027 245X .CRCSUM EQU 40027A ERSUM UDRB 040.031 246X .TPERRX EQU 40031A TAPE ERROR EXIT VECTOR 040.033 247X .TICCNT EQU 40033A CLCCK TICK 'COUNTER 040.035 249X .REGISTER EQU 40035A REGISTER POINTER 040.037 249X .UTUCC 'EQU 40035A REGISTER POINTER 040.037 249X .UTUCC 'EQU 40037A USER 'INTERRUPT VECTOR'S 040.044 250X .MMIRET EQU 4004A HB8/HB9 MIT RETURN ADDRESS /80.07.sc/ 040.056 251X .CTLZFL EQU 4004A USER 'INTERRUPT VECTOR'S 040.014 252 XTEXT HOSEQU  253X * 024.000 255X * 024.000 257X S.GRTO EQU 24000A SYSTEM AREA FOR GRTO 025.000 259X S.GRTI EQU 25000A SYSTEM AREA FOR GRTO 026.000 259X S.GRTI EQU 25000A SYSTEM AREA FOR GRTO 026.000 259X S.GRTI EQU 25000A SYSTEM AREA FOR GRTO 026.000 259X S.GRTI EQU 26000A SYSTEM AREA FOR GRTO 026.000 259X S.GRTI EQU 26000A SYSTEM AREA FOR GRTO 027.000 250X S.GRTI EQU 25000A SYSTEM AREA FOR GRTO 026.000 259X S.GRTI EQU 25000A SYSTEM AREA FOR GRTO 027.000 261X ROMBROT EQU 30000A ROM BOOT ENTRY 040.100 263X ORG 40100A FREE SPACE FROM PAM-B 040.100 263X DR B JUMP TO SYSTEM EXIT 040.110 266X D.COM B 16 DISK CONSTANTS 040.130 267X SYDD EQU * SYSTEM TOWN WORK AREA  |   |  |                             |                                  |
| 040.027  |   |  |                             |                                  |
| 040.031 246X .TPERRX EQU 40031A TAPE ERROR EXIT VECTOR 040:033 247X .TTCNT EQU 40033A CLOCK TICK COUNTER 040.035 240X .REOPTR EQU 40035A REGISTER POINTER 040.037 240X .UTUPEC EQU 40035A REGISTER POINTER 040.037 240X .UTUPEC EQU 40037A USER INTERRUPT VECTORS 040.064 250X .MMIRET EQU 40064A H8P9 NMI RETURN Address /80.07.sc/ 040.066 251X .CTL2FL EQU 40066A OP2.CTL Control Byte /80.07.sc/ 000.014 252 XTEXT HOSEQU  254X ** HU0S SYSTEM EQUUVALENCES. 255X *  024.000 257X S.GRTO EQU 24000A SYSTEM AREA FOR GRTO 025.000 259X S.GRT1 EQU 25000A SYSTEM AREA FOR GRTO 025.000 259X S.GRT1 EQU 25000A SYSTEM AREA FOR GRT2  030.000 257X S.GRMO EQU 30000A ROM BOOT ENTRY  040.100 263X ORG 40100A FREE SPACE FROM PAN-B 040.100 263X ORG 40100A FREE SPACE FROM PAN-B 040.110 264X DS B JUMP TO SYSTEM EXIT 040.130 267X SYDD EQU * SYSTEM DISK ENTRY POINT 040.130 267X SYDD EQU * SYSTEM REA FOR DON ERACH 040.240 269X D.RAM DS 31 SYSTEM ROM BORN AREA  |   |  |                             |                                  |
| O40.033  |   |  |                             |                                  |
| 040.035  |   |  |                             | TAPE ERROR EXIT VECTOR           |
| 040.037  | 040.033                                 | 247X TTCCNT EC                         | ?U`````40033A`````          | CLOCK TICK COUNTER               |
| O40.037  | 040.035                                 | 248X →REGPTR EC                        | RU 40035A                   | REGISTER POINTER                 |
| 040.064  | 040.037                                 | 249X THTOFC FC                         | ነበ፡  ሻለጽጳንል  ነገ             |                                  |
| 040:066  |   |  |                             |                                  |
| 000.014 252 XTEXT HOSEQU  254X ** HU05 SYSTEM EUUTVALENCES; 255X * 255X *  024.000 257X S.GRT0 EQU 24000A SYSTEM AREA FOR GRT0 025.000 259X S.GRT1 EQU 25000A SYSTEM AREA FOR GRT0 026.000 259X S.GRT2 EQU 26000A SYSTEM AREA FOR GRT2  030.000 261X ROMBOOT EQU 30000A ROM BOOT ENTRY  040.100 263X ORG 40100A FREE SPACE FROM PAM-8  040.100 265X DS 8 JUMP TO SYSTEM EXIT 040.110 265X DS 8 JUMP TO SYSTEM EXIT 040.110 265X DS 8 SYSTEM DISK ENTRY POINT 040.130 267X SYDD EQU * SYSTEM DISK ENTRY POINT 040.130 267X SYDD EQU * SYSTEM ROM WORK AREA  |   |  |                             |                                  |
| 254X **   HUOS SYSTEM EQUITORLENCES.   255X *   256X     256X     256X     256X     256X     256X     256X     256X     256X     |   |  |                             | UF2.CIL CONTROL B9te /80.07.gc/  |
| 255X *   | 000.014                                 | Z9Z X1                                 | IEXI HUSEQU                 |                                  |
| 255X *   |   |  |                             |                                  |
| 255X *   |   |  |                             |                                  |
| 255X *   |   |  |                             |                                  |
| 255X * 256X  024.000 257X S.GRT0 EQU 24000A SYSTEM AREA FOR GRT0  025.000 258X S.GRT1 EQU 25000A SYSTEM AREA FOR GRT0  026.000 259X S.GRT2 EQU 26000A SYSTEM AREA FOR GRT2  260X  030.000 261X ROMBOOT EQU 30000A ROM BOOT ENTRY  040.100 263X ORG 40100A FREE SPACE FROM PAM-8  264X  040.100 265X DS 8 JUMP TO SYSTEM EXIT  040.110 266X D.CON DS 16 DISK CONSTANTS  040.110 266X D.CON DS 16 DISK CONSTANTS  040.130 267X SYDD EQU * SYSTEM ISK ENTRY POINT  040.130 268X D.VEC DS 24*3 SYSTEM ISK ENTRY POINT  040.130 268X D.VEC DS 24*3 SYSTEM ROM ENTRY VECTORS  040.240 269X D.RAM DS 31 SYSTEM ROM WORK AREA  | *************************************** | · · · · · · · · · · · · · · · · · · ·  | ine i evetexi ichiitiixii i | Printer to                       |
| 256X   |   |  | DOS SISIEM EKOTAMEN         | ENCES.                           |
| 024.000 257X S.GRTO EQU 24000A SYSTEM AREA FOR GRTO 025.000 258X S.GRT1 EQU 25000A SYSTEM AREA FOR GRTO 026.000 259X S.GRT2 EQU 26000A SYSTEM AREA FOR GRT2 260X 030.000 261X ROMBOOT EQU 30000A ROM BOOT ENTRY 262X 040.100 263X ORG 40100A FREE SPACE FROM PAM-8 040.100 265X DS 8 JUMP TO SYSTEM EXIT 040.110 266X D.CON DS 16 DISK CONSTANTS 040.130 267X SYDD EQU * SYSTEM DISK ENTRY POINT 040.130 268X D.COC DS 24*3 SYSTEM ROM ENTRY VECTORS 040.240 269X D.RAM DS 31 SYSTEM ROM WORK AREA   |   |  |                             |                                  |
| 025,000   258X S.GRT1 EQU   25000A   SYSTEM AREA FOR GRT1   026,000   259X S.GRT2 EQU   26000A   SYSTEM AREA FOR GRT2  |   | 256X                                   |                             |                                  |
| 026,000   259X S.GRT2 EQU   26000A   SYSTEM AREA FOR GRT2  | 024.000                                 | 257X S.GRTO EG                         | RU 24000A                   | SYSTEM AREA FOR GRTO             |
| 026,000   259X S.GRT2 EQU   26000A   SYSTEM AREA FOR GRT2  | 725,000                                 | 258X S.GRT1 EC                         | £022020A                    | SYSTEM AREA FOR GRT1             |
| 280X 030.000 261X ROMBOOT EQU 30000A ROM BOOT ENTRY  040.100 263X ORG 40100A FREE SPACE FROM PAM-8 264X 040.100 265X DS 8 JUMP TO SYSTEM EXIT 040.110 266X D.CON DS 16 DISK CONSTANTS 040.130 267X SYDD EQU * SYSTEM DISK ENTRY POINT 040.130 268X D.VEC DS 24*3 SYSTEM ROM ENTRY VECTORS 040.240 269X D.RAM DS 31 SYSTEM ROM WORK AREA  |   |  |                             |                                  |
| 030,000 261X ROMBOOT EQU 30000A ROM BOOT ENTRY  040,100 263X ORG 40100A FREE SPACE FROM PAM-8  264X  040,100 265X DS 8 JUMP TO SYSTEM EXIT  040,110 266X D.CON DS 16 DISK CONSTANTS  040,130 267X SYDD EQU * SYSTEM DISK ENTRY POINT  040,130 268X D.VEC DS 24*3 SYSTEM ROM ENTRY VECTORS  040,240 269X D.RAM DS 31 SYSTEM ROM WORK AREA   | *************************************** |  |                             | OTOTED RIVER TON UNITE           |
| 262X  040.100  263X  0RG  40100A  FREE SPACE FROM PAM-8  264X  040.100  265X  DS  8  JUMP TO SYSTEM EXIT  040.110  266X D.CON  16  DISK CONSTANTS  040.130  267X SYDD  EQU  *  SYSTEM DISK ENTRY POINT  040.130  268X D.VEC  DS  24*3  SYSTEM ROM ENTRY VECTORS  040.240  269X D.RAM  DS  31  SYSTEM ROM WORK AREA   | 070 000                                 |  | 70000                       | FOY FOOT FUTEY                   |
| 040.100 263X ORG 40100A FREE SPACE FROM PAM-8  040.100 265X DS 8 JUMP TO SYSTEM EXIT  040.110 266X D.CON DS 16 DISK CONSTANTS  040.130 267X SYDD EQU * SYSTEM DISK ENTRY POINT  040.130 268X D.VEC DS 24*3 SYSTEM ROM ENTRY VECTORS  040.240 269X D.RAM DS 31 SYSTEM ROM WORK AREA   | 030.000                                 |  | ku 30000A                   | RUM BUUT ENIRY                   |
| 264X 040.100 265X DS 8 JUMP TO SYSTEM EXIT 040.110 266X D.CON DS 16 DISK CONSTANTS 040.130 267X SYDD EQU * SYSTEM DISK ENTRY POINT 040.130 268X D.CCC DS 24*3 SYSTEM ROM ENTRY VECTORS 040.240 269X D.RAM DS 31 SYSTEM ROM WORK AREA   |   | 262X                                   |                             |                                  |
| 264X  040.100  265X  DS  8  JUMP TO SYSTEM EXIT  040.110  266X D.CON  16  DISK CONSTANTS  040.130  267X SYDD EQU  *  SYSTEM DISK ENTRY POINT  040.130  268X D.VEC DS  2483  SYSTEM ROM ENTRY VÉCTORS  040.240  269X D.RAM  DS  31  SYSTEM ROM WORK AREA  | 040.100                                 | 263X OF                                | RG 40100A                   | FREE SPACE FROM PAM-8            |
| 040.100 265X DS 8 JUMP TO SYSTEM EXIT  040:110 266X D:CON DS 16 DISK CONSTANTS  040:130 267X SYDD EQU * SYSTEM DISK ENTRY POINT  040:130 268X D:VEC DS 24*3 SYSTEM ROM ENTRY VÉCTORS  040:240 269X D:RAM DS 31 SYSTEM ROM WORK AREA  |   | 264X                                   |                             |                                  |
| 040,110 266X D.CON DS 16 DISK CONSTANTS 040,130 267X SYDD EQU * SYSTEM DISK ENTRY POINT 040,130 269X D.VEC DS 24%3 SYSTEM ROM ENTRY VECTORS 040,240 269X D.RAM DS 31 SYSTEM ROM WORK AREA  | 040.100                                 |  | 8 8                         | HIMP TO SYSTEM EYIT              |
| 040-130 267X SYDD EQU * SYSTEM DISK ENTRY POINT 040:130 268X D:VEC DS 24*3 SYSTEM ROM ENTRY VECTORS 040-240 269X D:RAM DS 31 SYSTEM ROM WORK AREA  | _                                       | ************************************** | ξ                           |                                  |
| 040:130 268X D:VEC DS 24*3 SYSTEM ROM ENTRY VECTORS 040:240 269X D:RAM DS 31 SYSTEM ROM WORK AREA  |   |  |                             |                                  |
| 040.240 269X D.RAM DS 31 SYSTEM ROM WORK AREA  |   |  |                             |                                  |
|  |   |  |                             |                                  |
|  | 040.240                                 |  |                             | SYSTEM ROM WORK AREA             |
| 040:277 270X S.VAL DS 36 SYSTEM VALUES   | 040.277                                 | 270X S.VAL ns                          |                             |                                  |
| 040.343 271X S.INT DS 115 SYSTEM INTERNAL WORK AREAS   |   |  |                             |                                  |
|  |   |  | i                           | W. W. ALTERNITE WOLLD HILLIO     |
|  |   |  |                             | CTACK OUEDS ON HACHTAG           |
|  | 041.126                                 |  | · 2                         | STAUN UVERFLUW WARNING           |
|  | 041.146                                 | 273X S.SOVR DS                         |                             |                                  |
| 001.032 275X STACKL EQU *-S.SOVR STACK SIZE  | 041.146<br>041.150                      | 274X DS                                | 42200A-*                    | SYSTEM STACK                     |
|  | 041.146<br>041.150                      | 274X DS                                | 42200A-*                    |                                  |

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| AM/8.EQUIVALENCES,                       | ••••  |   | HEATH HBASM V1.4 01/20/78<br>HDOSEQU 15:48:33 20-0CT-80   | PAGE 7                                  |
|--|---|---|---|---|
|  | **************************************  |   |   |   |
| 042.200                                  | 276X  | ı de  | LIIALA OVOTEV OTAGIC  |   |
| 042.200                                  | 277X STACK EQU<br>278X USERFWA EQU  | , <del>Y</del>                                  | LWA+1 SYSTEM STACK<br>USER FWA  |   |
| 042.200                                  | 278X USERFWA EQU  | *   | USER FWA  |   |
| 042.200                                  | 279XTE  | XTDIRDEF  |   |   |
|  |   |   |   |   |
|  | 281X ** DIR   | ECTORY ENTRY FOR                                | RMAT.   |   |
| 000.000                                  | 283X ORG  | 0, .  |   |   |
|  | 284X  |   |   |   |
|  | 285X  |   |   |   |
| 000.377                                  | 286X DF.EMP EQU   | 377Q  | ELACE ENTRY EMETY   |   |
|  |   |   | FLAGS ENTRY EMPTY   |   |
| 000,376                                  | 287X DF+CLR EQU   | 376Q  | FLAGS ENTRY EMPTY, REST OF DIR ALSO CLEAR   |   |
| 000 000                                  | 288X  |   |   |   |
| 000.000                                  | 289X DIR.NAM DS   | 8   | NAME  |   |
| 000.010                                  | 290X DIR.EXT DS   | 3   | EXTENSION   | • |
| 000.013                                  | 291X DIR.PRO DS   | ī   | PROJECT   |   |
| 000.014                                  | 292X DIR.VER DS   |   | VERSION   |   |
| 000.015                                  |   | <u>.</u>  |   |   |
|  | 293X DIRIDL EQU   | **************************************          | FILE IDENTIFICATION LENGTH  |   |
| ***                                      | 294X  |   |   | ,                                       |
| 000.015                                  | 295X DIR.CLU DS   | 1   | CLUSTER FACTOR  |   |
| 000.016                                  | 296X DIR.FLG DS   | 1   | FLAGS   |   |
| 000.017                                  | 297X DS   | i   | RESERVED  |   |
| 000.020                                  | Ž98X DIR FGN ĎŠ   |   | FIRST GROUP NUMBER  |   |
| 000.021                                  |   | 1   | ······································  |   |
|  | 299X DIR.LGN DS   |   | LAST GROUP NUMBER   |   |
| 000.022                                  | 300X DIR.LSI DS   | 1   | LAST SECTOR INDEX (IN LAST GROUP)   |   |
| 000.023                                  | 301X DIR.CRD DS   | 2   | CREATION DATE   |   |
| 000.025                                  | 302X DYR.ALD DS   | •         | LAST ALTERATION DATE  |   |
|  | 303X  | -   | CHO! REIENHITON DAIL  |   |
| 000.027                                  | 304X DIRELEN EQU  | ***************************************         | DIRECTORY ENTRY LENGTH  |   |
| 000.027                                  |   |   | DIRECTORT ENTRY LENGTH  |   |
|  | 305 XTE   | XT ESINT  |   |   |
|  | •••••   |   |   |   |
| •  | 307x********  | NTTTTPVAYESTYSIYE                               | HOW! TORALINE V. WERSTER WARRING TO   |   |
|  | 308X *  | 41 - SISIEM THIE                                | RNAL WORKAREA DEFINITIONS.  |   |
| *****************                        |   | בַּבְי יַרְבְוּן וְיִכְּי יַאַשְׁבָּי יִשְׁבָּי | ERENCED BY OVERLAYS AND MAIN CODE, AND  |   |
|  | 7100 4 410  | JE CELLO MRE REF<br>T THEOSEODE SEST            | EVEROED DI CAEKEHIO UND MUIN CODE! UND  |   |
|  |   | I THEREFURE RESI                                | DE IN FIXED LOW MEMORY.   |   |
|  | 311x  |   |   |   |
|  | 312X  |   |   |   |
|  |   | S∵INT   | ***************************************   | ·····                                   |
| 040.343                                  | 313x  | · ·   |   |   |
| 040.343                                  | 313X ORG<br>314X  |   |   |   |
| 040.343                                  | 314X  | TOUR STATUR FILMS                               | g   |   |
| 040.343                                  | 314X<br>315X ** CON   | SOLE" STATUS FLAG                               | 8   | • |
| •••••••••••••••••••••••••••••••••••••••  | 314X<br>315X**** CUN<br>316X  |   |   | ••••••                                  |
|  | 314X<br>315X ** CUN<br>316X<br>317X S.CDB DS  | ······································          |   | ••••••                                  |
| 000,000                                  | 314X<br>315X ** CDN!<br>316X<br>317X \$.CDB DS 318X CDB.H85 EQU   | 1   |   | ••••••••••••••••••••••••••••••••••••••• |
|  | 314X<br>315X ** CUN<br>316X<br>317X S.CDB DS  | 1   | CONSULE DESCRIPTUR BYTE   | ••••••                                  |
| 040;343<br>000,000<br>000,001            | 314X<br>315X ** CUM<br>316X<br>316X<br>317X \$.CDB DS<br>318X CDB.H85 EQU<br>319X CDB.H84 EQU   | 00000001B<br>00000000B                          | CONSOLE DESCRIPTOR BYTE   | ••••••••••••••••••••••••••••••••••••••• |
| 000,000                                  | 314X<br>315X ** CUM<br>316X<br>317X \$.CDB DS<br>317X CDB.H85 EQU<br>319X CDB.H84 EQU<br>320X \$.BAUD DS  | 00000000В                                       | CONSULE DESCRIPTOR BYTE   |   |
| 040,343<br>000,000<br>000,001            | 314X<br>315X ** CUM<br>316X<br>317X S.CDB DS<br>318X CDB.H85 EQU<br>319X CDB.H84 EQU<br>320X S.BAUD DS<br>321X *  | 00000001B<br>00000000B                          | CONSOLE DESCRIPTOR BYTE   |   |
| 040,343<br>000,000<br>000,001            | 314X<br>315X ** CUM<br>316X<br>317X S.CDB DS<br>318X CDB.H85 EQU<br>319X CDB.H84 EQU<br>320X S.BAUD DS<br>321X *<br>322X  | 1<br>00000000B<br>00000001B<br>2                | CONSULE DESCRIPTOR BYTE   |   |
| 040.343<br>000.000<br>000.001            | 314X<br>315X ** CUM<br>316X<br>317X S.CDB DS<br>318X CDB.H85 EQU<br>319X CDB.H84 EQU<br>320X S.BAUD DS<br>321X *<br>322X<br>323X ** TAB                             | 00000001B<br>00000000B                          | CONSULE DESCRIPTOR BYTE   |   |
| 040.343<br>000.000<br>000.001<br>040.344 | 314X<br>315X ** CUM<br>316X<br>317X S.CDB DS<br>318X CDB.H85 EQU<br>319X CDB.H84 EQU<br>320X S.BAUD DS<br>321X *<br>322X  | 1<br>00000000B<br>00000001B<br>2                | CONSULE DESCRIPTOR BYTE   |   |
| 040,343<br>000,000<br>000,001            | 314X<br>315X ** CUNN<br>316X<br>317X S.CDB DS<br>318X CDB.H85 EQU<br>319X CDB.H84 EQU<br>320X S.BAUD DS<br>321X *<br>322X<br>323X ** TAB                            | 1<br>00000000B<br>00000001B<br>2                | CONSOLE DESCRIPTOR BYTE  =0 IF H8-5, =1 IF H8-4  [0-14] H8-4 BAUD RATE, =0 IF H8-5  [15] =1 IF BAUD RATE => 2 STOP BITS                               |   |
| 040,343<br>000,000<br>000,001<br>040,344 | 314X<br>315X ** CUNS<br>315X ** CUNS<br>317X \$.CDB.H85 EQU<br>319X CDB.H84 EQU<br>320X \$.BAUD DS<br>321X *<br>322X<br>323X ** TABI<br>324X<br>325X \$.DLINK DS    | 1<br>00000000B<br>00000001B<br>2                | CONSULE DESCRIPTOR BYTE  =0 IF H8-5, =1 IF H8-4  [0-14] H8-4 BAUD RATE, =0 IF H8-5  [15] =1 IF BAUD RATE => 2 STOP BITS  ADDRESS OF DATA IN HOUS CODE |   |
| 040.343<br>000.000<br>000.001<br>040.344 | 314X<br>315X ** CUNN<br>315X ** CUNN<br>316X<br>317X \$.CUB DS<br>318X CUB.H85 EQU<br>319X CUB.H84 EQU<br>320X \$.BAUD DS<br>321X *<br>322X<br>323X ** TABI<br>324X | 1<br>00000000B<br>00000001B<br>2                | CONSOLE DESCRIPTOR BYTE  =0 IF H8-5, =1 IF H8-4  [0-14] H8-4 BAUD RATE, =0 IF H8-5  [15] =1 IF BAUD RATE => 2 STOP BITS                               |   |

| PAM/8 EQUIVALENCES.                     |               |                           |          |   | HEATH H8ASM V1.4 01/20/78 PAGE 8 ESINT 15:48:34 20-0CT-80  |
|---|---------------|---------------------------|----------|---|--|
| 040.352                                 | *******       | SICFWA                    | е        | 2                                       | FWA CHANNEL TABLE  |
|   | 32/8          | S+CFWH                    | ne<br>ne | 2                                       | FWA DEVICE TABLE   |
| 040.354<br>040.356                      | 3580          | S.DFWA                    | . ne     | · . ∯ · · · · · · · · · · · · · · · · · | FWA RESIDENT HDOS CODE   |
| 040+336                                 | 330X          |                           | DS       | £                                       | TWH KESIDENI HDUS CODE   |
|   | 331X<br>332X  | **                        | DEVICE   | DRIVER DELAYED L                        | OAD FLAGS  |
| 040,360                                 |               | SIDDLDA                   | bs       | 2                                       | DRIVER LOAD ADDRESS (HIGH BYTE=O IF NO LOAD PENDING)   |
| 040.362                                 | 334X          | S.DDLEN                   | DS       | 2                                       | CODE LENGTH IN BYTES   |
| 040.364                                 | 335X          | SIDDGRF                   | DS.      | 1.                                      | GROUP NUMBER FOR DRIVER  |
| 040.365                                 | 336X          |                           | DS       | 1.                                      | HOLD PLACE   |
|   | 337X          | *S.DDSE                   | Ċ        | DS 2                                    | SECTOR NUMBER FOR DRIVER ( * OBSOLETE ! * )  |
| 040.366                                 | 338X          | SADDDTA                   | DS       | . 2                                     | DEVICE'S ADDRESS IN DEVLST +DEV.RES  |
| 040.370                                 | 339X          | S.DDOPC                   | DS       | 1                                       | OPEN OPCODE PENDEDING  |
|   |               |                           |          |   |  |
|   | 341X          |                           | OVERLAY  | MANAGEMENT FLAG                         | G  |
|   | 342X          |                           |          |   |  |
| 000.001                                 |               | OVLIN                     | ÉĠÜ      | 00000001B                               | IN MEMORY  |
| 000.002                                 |               | OVL.RES                   |          | 00000010B                               | PERMINANTLY RESIDENT   |
| 000.014                                 | 345X          | OVLINUM                   | EQU      | 00001100B                               | OVERLAY NUMBER MASK  |
| 000,200                                 |               | . QYL, LUÇS               |          | 10000000B                               | USER CODE SWAPPED FOR OVERLAY  |
|   | 347X          |                           |          |   | and the same of the section of the same of the section of the sect |
| 040.371                                 |               | S.OVLFL                   | DS       | 1                                       | OVERLAY FLAG   |
| 040.372                                 |               | S.UCSF                    |          | · · · · · · · · · · · · · · · · · · ·   | FWA SWAPPED USER CODE  |
| 040.374                                 |               | S.UCSL                    |          | 2                                       | LENGTH SWAPPED USER CODE   |
| 040.376                                 |               |                           | ĎŚ       | ・・・                                     | SIZE OF OVERLAY CODE   |
| 041.000                                 |               | S.OVLE                    |          | 2                                       | ENTRY POINT OF OVERLAY CODE  |
|   | 353X          |                           |          | ·· <del>·</del> ····                    | Lenini 181ni oli etenear pose  |
| 041.002                                 |               | S.SSN                     | DS       | 2                                       | SWAP AREA SECTOR NUMBER  |
| 041.004                                 |               | S.OSN                     | ĎS       |   | OVERLAY SECTOR NUMBER  |
| 071.007                                 | 356X          |                           | D-O      | <b>A.</b>                               | OVERLAT SECTOR ROMBER  |
|   | 357X          |                           | CYCCATT  | PROCESSING WORK                         | APFAC  |
|   | 358X          |                           | UIUUNLL  | TROCESSING WORK                         | aneas  |
| 041,006                                 |               | S.CACC                    | ns       |   | (ACC) UPON SYSCALL   |
| 041.007                                 |               | S.CODE                    |          | i                                       | SYSCALL INDEX IN PROGRESS  |
|   | 361X          |                           | .43      |   | . \$7.956EE, IRVEX. IR FAUNCESS  |
|   | 362X          |                           | HIMPS T  | O ROUTINES IN RE                        | STRENT HAGS CORE   |
| • | 363X          |                           | .9900.91 | 9. NOQ1.1NL91N. NE                      | SIDER! NDOS CODE   |
| 041.010                                 |               | S.JUMPS                   | DS       | 0                                       | START OF DUMP VECTORS  |
| 041.010                                 |               |                           | DS       | 3                                       | JUMP TO STAND-IN DEVICE DRIVER   |
| 041.013                                 |               | S.FASER                   |          | 3                                       | JUMP TO FATSERR (FATAL SYSTEM ERROR)   |
| 041.016                                 |               | S.DIREA                   |          | 3                                       | JUMP TO DIREAD (DISK FILE READ)  |
| 041.021                                 |               | S.FCI                     | DS       |   | JUMP TO FCI (FETCH CHANNEL INFO)   |
| 041.024                                 |               | ∵š∵ščī····                | ĎŠ       |   | JUMP TO SCI (STORE CHANNEL INFO)   |
| 041.027                                 |               | S.GUP                     | DS       | 3                                       | JUMP TO GUP (GET UNIT POINTER)   |
|   | 371X          |                           |          |   |  |
| 041.032                                 |               | S.MOUNT                   | DS       | 1                                       | <>O IF THE SYSTEM DISK IS MOUNTED  |
| 041.033                                 |               | S.DCS                     | DS       | ··i                                     | DEFAULT CLUSTER SIZE-1   |
|   | 374X          |                           |          | -                                       |  |
| 041.034                                 |               | S.BOOTF                   | DS       | · · · · · · · · · · · · · · · · · · ·   | BOOT FLAGS   |
| 000.001                                 |               | BOOT P                    |          | 00000001B                               |  |
| .,                                      | 9/9.^<br>377X |                           | +84      |   | EXECUTE PROLOGUE UPON BOOTUP   |
|   | 377X          |                           | STACK U  | ALUE SAVED FOR O                        | UFRIAY SYSCALLS  |
|   | 379X          |                           |          |   | YMINHII WIWWITHLW  |
| 041.035                                 |               | S.OVSTK                   | ne       | 2                                       | VALUE OF SP UPON SYSCALLS USING OVERLAY  |
|   | 381X          |                           | . F.9    | <del>f.</del>                           | ANTOT OF OLOR STOCKES COTEG CALLET   |
| 041.037                                 | 382X          |                           | DS       | 1                                       | RESERVED   |
|   | 5047          | • • • • • • • • • • • • • |          |   | INTOTIVATA   |
|   |               |                           |          |   |  |

| ADOS LP: DEVICE DRIVER<br>PAM/B EQUIVALENCES, |   |                                       | HEATH H8ASM V1.4 01/20/78  | PAGE 9                                   |
|---|---|---------------------------------------|--|--|
|   |   |                                       |  |  |
| •       | *************************************** | · <u> </u>                            | ***************************************  |  |
|   | 384X **<br>385X *                       | ACTIVE I/O AREA.                      |  |  |
| ****************                              | 386X *                                  | THE AID.XXX AREA CON                  | TAINS INFORMATION ABOUT THE I/O OPERATION  |  |
| •       | 387X.*                                  | CURRENTLY BEING PERF                  | ORMED. THE INFORMATION IS OBTAINED FROM  |  |
|   | 388X *                                  | THE CHANNEL TABLE, A                  | ND WILL BE RESTORED THERE WHEN DONE.   | •••••                                    |
|   | 389X.*                                  |                                       |  |  |
|   | 390X *<br>391X *                        | NORMALLY, THE AIO,XX                  | X INFORMATION WOULD BE OBTAINED DIRECTLY   | ······································   |
| •       | 3710                                    | ROBO MAC NO COOP TAIL                 | TABLES VIA POINTER REGISTERS, SINCE THE<br>EXED ADDRESSING, THE DATA IS MANUALLY | **********                               |
|   | 393X *                                  | COPIED INTO THE AID.                  | XXX CELLS BEFORE PROCESSING, AND   |  |
| •       | 394X *                                  | BACKDATED AFTER PROC                  | ESSING.  |  |
| *******                                       | 395X                                    |                                       |  |  |
| 041.040                                       | 396X AIO.VEC                            |                                       | JUMP INSTRUCTION   | •  |
| 041.041                                       | 397X AIO.DDA                            |                                       | DEVICE DRIVER ADDRESS  |  |
| 041.043                                       | 398X A10.FLG                            |                                       | FLAG BYTE  |  |
| 041.046                                       | 399X AIO.GRT<br>400X AIO.SFG            |                                       | ADDRESS OF GROUP RESERV TABLE  | **** * * * * * * * * * * * * * * * * * * |
| 041.047                                       | 401X AIO.CGN                            |                                       | SECTORS PER GROUP  |  |
| 041.050                                       | 402X A10.CSI                            |                                       | CURRENT GROUP NUMBER CURRENT SECTOR INDEX  |  |
| 041.051                                       | 403X AID.LGN                            |                                       | LAST GROUP NUMBER  |  |
| 041.052                                       | Y81.01A X404                            | ps                                    | LAST SECTOR INDEX  | •  |
| 041.053                                       | 405X AID.DTA                            |                                       | DEVICE TABLE ADDRESS   |  |
| 041+055                                       | 406X AIO.DES                            |                                       | DIRECTORY SECTOR   | •••••                                    |
| 041.057<br>041.061                            | 407X AIO.DEV                            |                                       | DEVICE CODE  |  |
| V41.001                                       | '''''408X'AID;UNI'<br>409X              | ns 1                                  | UNIT NUMBER (0-9)  | ***********************                  |
| 041.082                                       | 410X A10.DIR                            | DS DIRELEN                            | **************************************   |  |
|   | 411X                                    | DO DIKELEN                            | DIRECTORY ENTRY  |  |
| 041.111                                       | 412X A10.CNT                            | DS                                    | SECTOR COUNT   | ••••                                     |
| 041.112                                       | 413X AIO.EOM                            | I/S 1                                 | END OF MEDIA FLAG  |  |
| 041:113                                       | 414X.AID:EOL.                           |                                       | END OF FILE FLAG   | ••••                                     |
| 041.114<br>041.116                            | 415X AIO.TFP                            |                                       | TEMP FILE POINTERS   |  |
| 041,116                                       | 416X.AIO:CHA.                           | ps 2                                  | ADDRESS OF CHANNEL BLOCK (IDC.DDA)   | •••••                                    |
| ••••••••••••                                  | • |                                       |  | ••••••                                   |
|   |   | •••••                                 |  |  |
| 041.120                                       | 418X S.BDA                              | DS 1                                  | Boot Device Address (Setup by ROM) /80.09.sc/                                    |  |
| 041:T21                                       |   | DS2                                   | SYSTEM SCRATCH AREA ADDRESS  | •  |
| 041.123                                       | 420                                     | XTEXT ESVAL                           |  |  |
| ***************************************       |   |                                       |  | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,  |
|   |   |                                       | ······································   |  |
| •   | ·····422X **                            | S.VAL SYSTEM VALUE                    | DEFINITIONS.   | •  |
| **********                                    | 423X *                                  | · · · · · · · · · · · · · · · · · · · |  |  |
|   | 424X *                                  | THESE VALUES ARE SET                  | AND MAINTAINED BY THE SYSTEM.  | •  |
|   | 425X X                                  |                                       |  |  |
|   | 720X #                                  | THE DECK HOSEGO MUST                  | BE MODIFIED WHEN THIS IS MODIFIED.   | •  |
|   | 427X<br>428X                            | ·····                                 | ************************************   |  |
| 040,277                                       |   | ORG S.VAL                             |  | •••••                                    |
|   | 430X                                    | ORG S.VAL                             |  | •  |
| 040.277                                       |   | DS 9                                  | SYSTEM DATE (TAL ACCUT)  |  |
| 040.310                                       |   | ĎŠ2                                   | SYSTEM DATE (IN ASCII) CODED DATE  |  |
| 040.312                                       | 433X S.TIME                             |                                       | TIME FROM MIDNIGHT (IN TICS)   |  |

| HDOS LP: DEVICE DRIVER, H-<br>PAM/8 EQUIVALENCES, | -24 (TI 810)                            |   | HÉÄTH HÄÄSM V1.4 01/20/78 PÄGE 10<br>ESVAL 15:48:36 20-0CT-80 |
|---|---|---|---|
| 040.316   |   |   | HARDWARE HIGH MEMORY ADRESS+1                                 |
| 040+318   | 434X S.HIMEM DS<br>435X                 | £                                       | MAKUWAKE MIGH MEMUKI AUKESSTI                                 |
| 040.320   | 436X S.SYSM DS<br>437X                  | 2                                       | FWA RESIDENT SYSTEM   |
| 040.322   | 438X S.USRM DS<br>439X                  | 2                                       | LWA USER MEMORY   |
| 040.324   | 440X°S.OMAXDS<br>441X                   |   | MAX OVERLAY SIZE FOR SYSTEM                                   |
| •••••   | 442X                                    | • |   |
| ***************************************           |   | LOWING FIVE CELL                        | S SHOULD BE MODIFIED/READ ONLY VIA THE .CONSL SYSCALL         |
| 000.200   | 444X<br>445X CSL.ECH EQU                | 10000000                                | CUODDECC FOUR   |
| 000.200   | 446X CSL.RAW EQU                        | 10000000B<br>                           | SUPPRESS ECHO Raw Mode 1/0 /80.09.sc/                         |
| 000.002   | 447X CSL.WRP EQU                        | 00000100E                               | WRAP LINES AT WIDTH   |
| 000.001   | 448X CSL+CHR EQU<br>449X                |   | OPERATE IN CHARACTER MODE                                     |
|   | TASOX TUCSEMOTEROTTE                    |   | 'S.CSLMD'IS'FIRST'BYTE  |
| 040.326   | 451X S.CSLMD DS                         | 1                                       | CONSOLE MODE  |
|   | 452X                                    |   |   |
| 000,200   | 453X CTP.BKS EQU                        | 1000000B                                | TERMINAL PROCESSES BACKSPACES                                 |
| 000,100   | 454X CTP.FF EQU                         | 01000000B                               | Terminal Processes Form-Feed /80.09.sc/                       |
| 000.040   | 455X CTP.MLI EQU                        | 00100000B                               | MAP LOWER CASE TO UPPER ON INPUT                              |
| 000.020   | 456X CTP MLO EQU                        | 00010000B                               | MAP LOWER CASE TO UPPER ON OUTPUT                             |
| 000,010   | 457X CTP.2SB EQU                        | 00001000B<br>00000010B                  | TERMINAL NEEDS TWO STOP BITS 'MAP'ERSP'(UPON'INPUT)'TO'RUBDOT |
| 000.002   | 459X CTP.TAB EQU                        | 00000010B                               | TERMINAL SUPPORTS TAB CHARACTERS                              |
|   | 460X                                    |   | TERMINAL SUFFURIS THE UNARRECTERS                             |
| 000,001   | 461X I.CONTY EQU                        | 1                                       | S.CONTY IS 2ND BYTE   |
| 000,000   | 462X ERRNZ                              | *-S.CSLMD-I.CON                         |   |
| 040.327   | 463X S.CONTY DS                         | 1                                       | CONSOLE TYPE FLAGS  |
| 000.002   | 464X I.CUSOR EQU                        | ···ĝ·······                             | S.CUSOR IS 3RD BYTE   |
| 000,000   | 465X ERRNZ                              | *-S.CSLMD-I.CUS                         | OR  |
| 040.330   | 466X S.CUSOR DS                         | ···1                                    | CORRENT CORSOR POSITION                                       |
| 000,003   | 467X I.CONWI EQU                        | 3                                       | S.CONWI IS 4TH BYTE   |
| 000.000   | 468X ERRNZ                              | *-S.CSLMD-I.COM                         |   |
| 040.331   | 469X S.CONWI DS                         | 1                                       | CONSOLE WINTH   |
| 000 004   | 470X                                    |   |   |
| 000.001   | 471X CO.FLG EQU                         |   | CTL-O FLAG  |
| 000.200   | 472X CS.FLG EQU<br>473X                 | 10000000B                               | CTL-S FLAG  |
| 000.004   | 474X I.CONFL EQU                        | · · · · · · · · · · · · · · · · · · ·   | S.CONFL IS 5TH BYTE   |
| 000+000   | 475X ERRNZ                              | *-S.CSLMD-I.CON                         | FL  |
| 040.332   | 476X S.CONFL DS                         | ····•                                   | CONSULE FLAGS   |
| ***************************************           | 477X                                    |   |   |
| 040.333   | 478X S.CAADR DS                         | 2                                       | ADDRESS FOR ABORT PROCESSING (>256 IF VALID)                  |
| 040+335   | 479X S.CCTAB DS                         | 6                                       | ADDR FOR CTL-A, CTL-B, CTL-C PROCESSING                       |
| 040.343   | 480 XTEXT                               | ECDEF                                   |   |
| ***************************************           |   |   |   |
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| ***************************************           | • |   |   |
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| "HDUS"LF: DEVICE DRIG<br>. PAM/8. ERVIVALENCES. |   | •••••                                   | HEATH HBASH 01.4 01/20/78<br>ECDEF 15:48:37 20-001-80 | FAGE 11                                 |
|---|---|---|---|---|
|   |   | ************************                | <u></u>   | •••••                                   |
|   | 482X **<br>483X                         | ERROR CODE DEFINIT                      | IONS.   |   |
| 000.000   | 484X                                    | ORG O                                   | •••••   | • |
| 000000  | 485X                                    | DSi                                     | NQ_ERROR_#0   |   |
| 000.001   | 486X EC.EOF                             |   | END OF FILE   | • |
| 000.002   | 487X EC.EOM                             | DS 1                                    | END OF MEDIA  |   |
| 000.003   | 488X EC.ILC                             | DS i                                    | ILLEGAL SYSCALL CODE                                  |   |
| 000.004   | 489X EC.CNA                             | DS 1                                    | CHANNEL NOT AVAILABLE                                 |   |
| 000.005   | 490X EC.DNS                             | DS 1                                    | DEVICE NOT SUITABLE                                   | • |
| 000.006   | 491X EC.IIN                             | DS 1                                    | ILLEGAL DEVICE NAME                                   |   |
| 000.007   | 492X ECTIFN                             | DS 1                                    | ILLEGAL FILE NAME                                     | • |
| 000.010   | 493X EC.NRD                             | DS 1                                    | NO ROOM FOR DEVICE DRIVER                             |   |
| 000.011   | 494X ECTENO                             | . ps                                    | CHANNEL NOT OPEN                                      | •••••                                   |
| 000.012   | 495X EC.ILR                             | DS 1                                    | ILLEGAL REQUEST                                       |   |
| 000.013   | 496X ECTFUC                             | ĎŚ 1                                    | FILE USAGE CONFLICT                                   | • |
| 000.014   | 497X EC.FNF                             | DS 1                                    | FILE NAME NOT FOUND                                   |   |
| 000.015   | AA8X ECLONO                             |   | UNKNOWN DEVICE  | • |
| 000.016   | 499X EC.ICN                             | DS 1                                    | ILLEGAL CHANNEL NUMBER                                |   |
|   |   | bsi                                     | DIRECTORY FULL  | • |
| 000.020   | 501X EC.IFC                             | DS 1                                    | ILLEGAL FILE CONTENTS                                 |   |
|   |   | de                                      | NOT ENOUGH MEMORY                                     | • |
| 000.022   | 503X EC.RF                              | DS 1                                    | READ FAILURE  |   |
| 000.023   | 504X ECTWF                              | ps                                      | WRITE FAILURE   | • |
| 000.024   | 505X EC.WPV                             | DS 1                                    | WRITE PROTECTION VIOLATION                            |   |
| 000:025   |   | . psi                                   | DISK WRITE PROTECTED                                  | • |
| 000.026   | 507X EC.FAP                             | DS 1                                    | FILE ALREADY PRESENT                                  |   |
| 000.027   | 508X EC. DDA                            |   | DEVICE DRIVER ABORT                                   | • |
| 000.030   | 509X EC.FL                              | DS 1                                    | FILE LOCKED   |   |
| 000:031   | 510X ECTAO                              | ·· bs·····i                             | FILE ALREADY OPEN                                     | • |
| 000,032   | 511X EC.IS                              | DS 1                                    | ILLEGAL SWITCH  |   |
| дод:дзз   | 21.5X .EC*.00W.                         | ps                                      | ONKNOWN ONIT NOMBER                                   | • |
| 000.034   | 513X EC.FNR                             | DS 1                                    | FILE NAME REQUIRED                                    |   |
| 000:035   | 514X 'ECIDIW'                           |   | DEVICE IS NOT WRITABLE (OR WRITE LOCKED)              | • |
| 000.036   | 515X EC.UNA                             | DS 1                                    | UNIT NOT AVAILABLE                                    |   |
| 000.037   |   | pzi                                     | ILLEGAL VALUE   |   |
| 000.040   | 517X EC.ILO                             | DS 1                                    | ILLEGAL OPTION  |   |
| 000.041   |   | D21                                     | VOLUME PRESENTLY MOUNTED ON DEVICE                    |   |
| 000.042   | 519X EC.NVM                             | DS 1                                    | NO VOLUME PRESENTLY MOUNTED                           |   |
| 000.043   |   | . Ds                                    | FILE OPEN ON DEVICE                                   | • |
| 000.044   | 521X EC+NPM                             | DS 1                                    | NO PROVISIONS MADE FOR REMOUNTING MORE DISKS          |   |
| 000.045   |   | ns                                      | DISK NOT INTITALIZED                                  | • |
| 000.046   | 523X EC.DNR                             | DS 1                                    | DISK IS NOT READABLE                                  |   |
| 000:047   | 524X 'EC\DSC'                           |   | DISK'STRUCTURE IS CURROFT                             | • |
| 000.050   | 525X EC.NCV                             | DS 1                                    | NOT CORRECT VERSION OF HDOS                           |   |
| 000:021   | 524X .EC+NOS.                           | psi                                     | NO OPERATING SYSTEM MOUNTED                           | • |
| 000.052   | 527X EC.10I                             |   | ILLEGAL OVERLAY INDEX                                 |   |
| 000:023   | **************************************  |   | OVERLAY TO LARGE                                      | • |
| 000.054   | 529                                     | XTEXT PICDEF                            |   |   |
|   | • | • |   | • |
|   |   |   |   |   |
|   |   | • | ***************************************               | • |
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| Abos LP: DEVICE DRIVER, H<br>PAM/8 EQUIVALENCES, | -24 (†              | Y 810)                    | ••••••                      |   | PICDEF           | HEATH H8ASM V1.4 0<br>15:48:38 20-0CT-80 | 1/20/78                                 | PAGE 12                                 |
|--|---------------------|---------------------------|-----------------------------|---|------------------|--|---|---|
|  | 531X                | **                        | FIC FOR                     | MAT EQUIVALENCE                         | si               | ***************************************  | ,                                       |   |
|  | 532X                |                           |                             |   |                  |  |   |   |
| 000.000  | 533X<br>534X        |                           | ORG                         |   |                  | ••••••••••••••••••••••••••••••••••••••   | • | ••••••••••••                            |
|  |                     | PICTIO                    | .ng                         |   | 3770 = BINARY    | TEYLE ELXe                               |   | *************************************** |
| 000,001  | 536X                |                           | DS                          | i                                       | FILE TYPE (FT    |  |   |   |
| 000:002  |                     | TPIC:LEN                  |                             | ··2·······                              | "L'ENGTH OF ENT  |  | • | •••••                                   |
| 000.004  |                     | PIC.PTR                   | DS                          | 2                                       |                  | T OF FIC TABLE                           |   |   |
| 000.006  | 539X                |                           | Ti C                        | 0                                       | OODE OTAGEO U    | المرابع                                  |   |   |
| 000.000  | 541                 | PIC.COD                   | XTEXT                       | DEADEL                                  | CODE STARTS H    | E.R.E.                                   | •••••••••••••••••                       |   |
|  |                     |                           |                             |   |                  |  | • |   |
|  | 543X<br>544X        |                           | DEVICE                      | TABLE ENTRYS.                           |                  | •  |   | ************                            |
| 000.000  | 545X                |                           | ORG                         | 0                                       |                  |  | :                                       |   |
| 000 000  | 548X                |                           |                             |   |                  |  |   |   |
| 000.000  |                     | DEV. NAM                  |                             |   | DEVICE NAME      |  | • |   |
| 000.000  |                     | ውለ ነፋብ<br>. ውሲ ነ ይ፫       | EGO                         | .00000000B                              | . END OF DEVICE  | LIST FLAG                                |   |   |
|  | 550X                |                           | EQU                         | 00000001B                               | DEVICE ENTRY     | NUI IN USE                               |   |   |
| 000.002  |                     | DEV.RES                   | ne                          | 1                                       | DRIVER RESIDER   | Net cont                                 |   |   |
| 000,001  | ···552X             | DR.IH.                    | . <u>Ε</u> άΛ               | ataoaoaoair                             | DRIVER IN MEMO   | 436 CONE                                 |   | ,                                       |
| 000.002  |                     | DR.PR                     | EQU                         | 00000010B                               | DRIVER PERMINA   |  |   |   |
| ***************************************          | ***554X             |                           |                             |   |                  |  | • | •••••                                   |
| 000.003  |                     | DEV.JMP                   | DS                          | 1                                       | JMP TO PROCESS   | 50R                                      |   |   |
| 000.004  |                     | DEV. DDA                  |                             | .3                                      | DRIVER ADDRESS   |  | • | • |
| 000.006  |                     | DEV.FLG                   | DS                          | 1                                       | FLAG BYTE        |  |   |   |
| 000.001  |                     |                           | EGD                         | .00000001E                              | ""DIRECTORY DEV  |  | • | • |
| 000.002  |                     | DT.CR                     | EQU                         | 00000010B                               | CAPABLE OF REA   | AD OPERATION                             |   |   |
| 000,004  |                     | TITTICW                   | .EGN                        | .00000100E                              | CAPABLE OF WR    | ITE OPERATION                            | • |   |
| 000.010  |                     | DT.RN                     | .EGU                        | 00001000B                               | Capable of ran   | ndom access /80.                         | 02.sc/                                  |   |
| 000.020  | 563X                | DITTCH                    | ERO                         | .00010000B                              | Capable of Cha   | eracter mode /80.                        | 02.sc/                                  |   |
|  |                     | DEV: NOM                  | . не                        |   |                  | 3.500                                    |   | *************************************** |
| 000.010  |                     | DEV.MNU                   |                             | 1                                       | MAXIMUM NUMBER   |  |   |   |
| 000,011  | <del>5</del> 227    | DEV.UNT                   | . กล์                       | ·\$·····,                               |                  | IT SPECIFIC DATA TABLE                   |   |   |
| V V V V V X X                                    | 567X                |                           | 1.0                         | <del>-</del>                            | HUDICOS OF OR    | I SPECIFIC DATA TABLE                    |   |   |
| 000.013  |                     | DEV. DOL                  | DS                          |   | DRIVER BYTE LE   | NGTH                                     |   | •••••                                   |
| 000.015  | 569X                | DEV.DVG                   |                             | ī                                       |                  | GROUP ADDRESS                            |   |   |
|  | ```570X             |                           |                             | • |                  |  |   | • |
| 000.016  | 571X                | DEVELEN                   | EĠÑ                         | *                                       | DEVICE TABLE     | ENTRY LENGTH                             |   |   |
| ~  | • • • • • • • • •   |                           |                             |   |                  |  | •••••••••••                             |   |
| ~····  | ···573X             | . жж                      | UNIT                        | ecific bevice b                         | ATA TABLE ENTRIE | :s:                                      | • |   |
| ***************************************          | 574X                | • • • • • • • • • • • • • |                             |   |                  |  |   |   |
| 000.000  | 575X<br>576X        |                           | ORG                         | 0                                       |                  |  |   |   |
| 000.000  |                     | UNY FLG                   | Ti\$                        |   | UNIT SPECIFIC    | Whell elev                               |   |   |
| 000.001  |                     | UNTASES                   |                             | 1                                       | Sectors Per G    |  | 04 607                                  |   |
| 000.002  | … <del>ŏ́źŏ</del> Ŷ | UNTIGRT                   | ĎŠ                          | · <del></del>                           | ADDRESS OF GRO   | OUP RESERVATION TABLE (                  | 04.GC/                                  |   |
| 000.004  |                     | UNT.GTS                   |                             | 2                                       | GRT SECTOR NUM   |  | AT DITEMBY                              |   |
| **************************************           |                     |                           | · <b>F</b> ·Ť · · · · · · · |   |                  | 27/27/2017                               | • • • • • • • • • • • • • • • • • • •   | *************************************** |
| ······································           |                     |                           |                             |   | ••••             |  |   |   |

| PAM/8 EQUIVALENCES  | (VER, H-24 (TI 8)  |  |  | HEATH H8ASM V1.4 01/20/78 PAGE 13<br>UNT.TAB 15:48:39 20-0CT-80  |
|---|--|--|--|--|
|   |  |  |  | en de la Maria de la companya de la<br>La companya de la co   |
| 000.006   | 581X UN<br>582X  | .DIS DS  | 2  | DIRECTORY FIRST SECTOR NUMBER  |
| 000.010   |  | SIZ EQU  | *  | SIZE OF UNIT SPECIFIC DATA TABLE PER UNIT  |
| 0.000.10  | 584  | XTEX.1   | DVDDEF   |  |
|   |  | ••••••   | •,•••••••  |  |
|   | 586X **<br>587X  | DEVIC  | E DRIVER EQUIVA  | ALENCES.   |
| 000.307   | 588X DVI<br>589X   | FLV EQU  | 307Q   | DEVICE DRIVER FLAG VALUE   |
| 000.006   | 590X<br>591X   | ORG  | PIC.COD  | STARTS AT PIC CODE AREA  |
| 000.006   | 5/17<br>592X DVI   | .nvn ns  | 1  | MUST BE DYDFLY, FLAGS TO HDOS AS DRIVER  |
| 000.007   | 593X DVI   |  | 1  | DEVICE CAPABILITY FLAG   |
| 000.010   | 594X DVI   | MUM DS   | ·····ī   | MOUNTED UNIT MASK  |
| 000.011   | 595X DVI   |  | 1  | MAXIMUM NUMBER OF UNITS  |
| 000.012   | 596X DVI   |  |  | UNIT SUB-CAPABILITY FLAGS FOR UNITS 0-7  |
| 000.022   | 597X DVI   |  | ī .  | = DVDFLV IFF DRIVER WILL TAKE SET OPTIONS  |
| 000.023   | 598X DVI   | INP DS   | 2  | Pointer to Init Code /80.07.sc/  |
| 000.025   | 599X   | DS   | 22   | RESERVED, MUST BE 0 /80.07.sc/   |
| 000.053   |  | STE EQU  | *  | ENTRY FOR 'SET' INVOCATION   |
|   | 601X   |  |  | The second secon |
|   | · · · · · · · · · · · · · · · · · · ·  | CHAYCALL   | · · · · · · · · · · · · · · · · · · ·  |  |
| 002,000   | 602X DVI   | +ENI EUU   | 2000A  | DRIVER ENTRY POINT (MUST BE MULT OF 254)   |
| 002,000   | 603<br>603   | XTEXT  | 2000A<br>U8250   | DRIVER ENTRY POINT (MUST BE MULT OF 256)   |
| 000.053   | 605X **<br>606X  | XTEXT<br>8250  | U8250<br>UART CONTROL AN   | DRIVER ENTRY POINT (MUST BE MULT OF 256)   |
| 000.053   | 605X **<br>606X  | XTEXT<br>8250<br>ACE EQU   | U8250  |  |
| 000.053   | 605X **<br>605X **<br>606X<br>607X SC<br>608X AC   | XTEXT<br>8250<br>ACE EQU   | U8250<br>UART CONTROL AN<br>3500   | ND BIT DEFINITIONS.  SYSTEM CONSOLE PORT IF 8250 ACE   |
| 000.053   | 603<br>605X **<br>606X<br>607X SC<br>608X AC   | 8250<br>ACE EQU<br>DLY EQU   | U8250<br>UART CONTROL AN   | ND BIT DEFINITIONS.  |
| 000.053   | 605X **<br>606X<br>606X<br>607X SC<br>608X AC<br>609X<br>610X UR   | 8250<br>ACE EQU<br>DLY EQU   | U8250<br>UART CONTROL AN<br>3500   | ND BIT DEFINITIONS.<br>SYSTEM CONSOLE PORT IF 8250 ACE<br>220 MIL. SEC. DELAY FOR 8250   |
| 000.053<br>000.350<br>000.156   | 605X **<br>605X **<br>606X<br>607X SC<br>608X AC<br>609X<br>610X UR<br>611X  | 8250<br>ACE EQU<br>DLY EQU<br>RBR EQU  | U8250<br>UART CONTROL AN<br>3500<br>110  | ND BIT DEFINITIONS.  SYSTEM CONSOLE PORT IF 8250 ACE   |
| 000.053<br>000.350<br>000.156   | 603<br>605X **<br>606X<br>607X 5C<br>608X AC<br>609X<br>610X UR<br>611X<br>612X UR   | 8250<br>ACE EQU<br>DLY EQU   | U8250<br>UART CONTROL AN<br>3500<br>110  | VD BIT DEFINITIONS.  SYSTEM CONSOLE PORT IF 8250 ACE 220 MIL. SEC. DELAY FOR 8250  RECEIVER BUFFER REGISTER (READ ONLY)  |
| 000.053<br>000.350<br>000.156<br>000.000  | 603<br>605X **<br>606X<br>607X SC<br>608X AC<br>609X<br>610X UR<br>611X<br>612X UR<br>613X   | XTEXT 8250 ACE EQU DLY EQU RBR EQU THR EQU   | U8250<br>UART CONTROL AN<br>3500<br>110<br>0   | ND BIT DEFINITIONS.  SYSTEM CONSOLE PORT IF 8250 ACE 220 MIL. SEC. DELAY FOR 8250  RECEIVER BUFFER REGISTER (READ ONLY)  TRANSMITTER HOLDING REGISTER (WRITE ONLY)   |
| 000.053<br>000.350<br>000.156   | 603<br>605X **<br>606X<br>607X SC<br>609X<br>610X UR<br>611X<br>611X<br>612X UR<br>613X<br>614X UR   | 8250<br>ACE EQU<br>DLY EQU<br>RBR EQU  | U8250<br>UART CONTROL AN<br>3500<br>110  | VD BIT DEFINITIONS.  SYSTEM CONSOLE PORT IF 8250 ACE 220 MIL. SEC. DELAY FOR 8250  RECEIVER BUFFER REGISTER (READ ONLY)  |
| 000.053<br>000.350<br>000.156<br>000.000<br>000.000   | 605X ** 606X 606X 606X 606X 606X 606X 610X 611X 612X 612X 613X 614X 014X 615X  | 8250 ACE EQU DLY EQU RBR EQU THR EQU DLL EQU   | U8250<br>UART CONTROL AN<br>3500<br>110<br>0   | ND BIT DEFINITIONS.  SYSTEM CONSOLE PORT IF 8250 ACE 220 MIL. SEC. DELAY FOR 8250  RECEIVER BUFFER REGISTER (READ ONLY)  TRANSMITTER HOLDING REGISTER (WRITE ONLY)  DIVISOR LATCH (LEAST SIGNIFICANT)  |
| 000.053<br>000.350<br>000.156<br>000.000  | 605X ** 606X 606X 607X SC 608X AC 609X 610X UR 611X 612X UR 613X 614X UR 615X 616X UR  | XTEXT 8250 ACE EQU DLY EQU RBR EQU THR EQU   | U8250<br>UART CONTROL AN<br>3500<br>110<br>0   | ND BIT DEFINITIONS.  SYSTEM CONSOLE PORT IF 8250 ACE 220 MIL. SEC. DELAY FOR 8250  RECEIVER BUFFER REGISTER (READ ONLY)  TRANSMITTER HOLDING REGISTER (WRITE ONLY)   |
| 000.053<br>000.350<br>000.156<br>000.000<br>000.000   | 605X ** 605X ** 606X 606X 607X 50 608X AC 609X 610X UR 611X 612X UR 613X 614X UR 615X 616X UR 617X   | 8250 ACE EQU DLY EQU THR EQU DLL EQU DLM EQU   | U8250<br>UART CONTROL AN<br>3500<br>110<br>0   | ND BIT DEFINITIONS.  SYSTEM CONSOLE FORT IF 8250 ACE 220 MIL. SEC. DELAY FOR 8250  RECEIVER BUFFER REGISTER (READ ONLY)  TRANSMITTER HOLDING REGISTER (WRITE ONLY)  DIVISOR LATCH (LEAST SIGNIFICANT)  DIVISOR LATCH (MOST SIGNIFICANT)  |
| 000.053<br>000.350<br>000.156<br>000.000<br>000.000<br>000.001  | 603<br>605X **<br>606X<br>607X 5C<br>608X AC<br>609X<br>610X UR<br>611X<br>612X UR<br>612X UR<br>615X<br>614X UR<br>615X<br>616X UR<br>616X UR   | 8250 ACE EQU DLY EQU THR EQU DLL EQU DLL EQU JEM EQU JER EQU   | U8250  UART CONTROL AN  3500 110 0 0 1   | ND BIT DEFINITIONS.  SYSTEM CONSOLE PORT IF 8250 ACE 220 MIL. SEC. DELAY FOR 8250  RECEIVER BUFFER REGISTER (READ ONLY)  TRANSMITTER HOLDING REGISTER (WRITE ONLY)  DIVISOR LATCH (LEAST SIGNIFICANT)  DIVISOR LATCH (MOST SIGNIFICANT)  INTERRUPT ENABLE REGISTER   |
| 000.053<br>000.350<br>000.156<br>000.000<br>000.000<br>000.001  | 603<br>605X **<br>606X<br>607X 5C<br>608X AC<br>609X<br>610X UR<br>611X<br>612X UR<br>613X<br>614X UR<br>615X<br>616X UR<br>617X<br>616X UR<br>617X<br>618X UR   | 8250 ACE EQU DLY EQU THR EQU DLL EQU DLL EQU DLM EQU IER EQU EDA EQU   | U8250  UART CONTROL AN  3500 110 0 0 1 1 1 000000018                                   | ND BIT DEFINITIONS.  SYSTEM CONSOLE PORT IF 8250 ACE 220 MIL. SEC. DELAY FOR 8250  RECEIVER BUFFER REGISTER (READ ONLY)  TRANSMITTER HOLDING REGISTER (WRITE ONLY)  DIVISOR LATCH (LEAST SIGNIFICANT)  DIVISOR LATCH (MOST SIGNIFICANT)  INTERRUPT ENABLE REGISTER ENABLE RECEIVED TATA AVAILABLE INTERRUPT  |
| 000.053<br>000.350<br>000.156<br>000.000<br>000.000<br>000.001<br>000.001<br>000.001  | 605X ** 606X 606X 606X 606X 606X 606X 610X 610X  | 8250 ACE EQU DLY EQU THR EQU DLL EQU DLM EQU IER EQU ETA EQU TRE EQU   | U8250  UART CONTROL AN  3500 110 0 0 1 1 000000018 00000010B                           | VD BIT DEFINITIONS.  SYSTEM CONSOLE PORT IF 8250 ACE 220 MIL. SEC. DELAY FOR 8250  RECEIVER BUFFER REGISTER (READ ONLY)  TRANSMITTER HOLDING REGISTER (WRITE ONLY)  DIVISOR LATCH (LEAST SIGNIFICANT)  DIVISOR LATCH (MOST SIGNIFICANT)  INTERRUPT ENABLE REGISTER  ENABLE RECEIVED NATA AVAILABLE INTERRUPT ENABLE TRANSMIT HOLD REGISTER EMPTY INTERRUPT   |
| 000.053<br>000.350<br>000.156<br>000.000<br>000.000<br>000.001<br>000.001<br>000.001<br>000.002<br>000.004                                  | 605X ** 606X 606X 606X 606X 606X 606X 610X 611X 612X 612X 615X 614X 615X 616X 616X 616X 616X 616X 616X 616   | 8250 ACE EQU DLY EQU RBR EQU THR EQU DLL EQU DLM EQU IER EQU EDA EQU ETAE EQU RSI EQU  | U8250  UART CONTROL AN  3500 110 0 0 1 1 000000018 00000108                            | ND BIT DEFINITIONS.  SYSTEM CONSOLE PORT IF 8250 ACE 220 MIL. SEC. DELAY FOR 8250  RECEIVER BUFFER REGISTER (READ ONLY)  TRANSMITTER HOLDING REGISTER (WRITE ONLY)  DIVISOR LATCH (LEAST SIGNIFICANT)  DIVISOR LATCH (MOST SIGNIFICANT)  INTERRUPT ENABLE REGISTER ENABLE RECEIVED TATA AVAILABLE INTERRUPT ENABLE TRANSMIT HOLD REGISTER EMPTY INTERRUPT ENABLE RECEIVE STATUS INTERRUPT  |
| 000.053<br>000.350<br>000.156<br>000.000<br>000.000<br>000.001<br>000.001<br>000.001  | 603<br>605X **<br>606X<br>607X SC<br>608X AC<br>609X<br>610X UR<br>611X<br>612X UR<br>613X<br>614X UR<br>615X<br>616X UR<br>616X UR<br>616X UR<br>616X UR<br>620X UC<br>620X UC  | 8250 ACE EQU DLY EQU THR EQU DLL EQU DLM EQU IER EQU ETA EQU TRE EQU   | U8250  UART CONTROL AN  3500 110 0 0 1 1 000000018 00000010B                           | VD BIT DEFINITIONS.  SYSTEM CONSOLE PORT IF 8250 ACE 220 MIL. SEC. DELAY FOR 8250  RECEIVER BUFFER REGISTER (READ ONLY)  TRANSMITTER HOLDING REGISTER (WRITE ONLY)  DIVISOR LATCH (LEAST SIGNIFICANT)  DIVISOR LATCH (MOST SIGNIFICANT)  INTERRUPT ENABLE REGISTER  ENABLE RECEIVED NATA AVAILABLE INTERRUPT ENABLE TRANSMIT HOLD REGISTER EMPTY INTERRUPT   |
| 000.053<br>000.350<br>000.156<br>000.000<br>000.000<br>000.001<br>000.001<br>000.001<br>000.001<br>000.002<br>000.004<br>000.010            | 603  605X ** 606X 606X 607X 5C 608X AC 609X 610X UR 611X 612X UR 613X 614X UR 615X 616X UR 615X 616X UR 616X UR 620X UC 621X UC 622X UC 623X   | 8250 ACE EQU DLY EQU THR EQU DLL EQU DLM EQU IER EQU EDA EQU TRE EQU KSI EQU MSI EQU   | U8250  UART CONTROL AN  3500 110 0 0 1 1 00000001E 0000010B 00000100B                  | SYSTEM CONSOLE PORT IF 8250 ACE 220 MIL. SEC. DELAY FOR 8250  RECEIVER BUFFER REGISTER (READ ONLY)  TRANSMITTER HOLDING REGISTER (WRITE ONLY)  DIVISOR LATCH (LEAST SIGNIFICANT)  DIVISOR LATCH (MOST SIGNIFICANT)  INTERRUPT ENABLE REGISTER  ENABLE RECEIVED WATA AVAILABLE INTERRUPT ENABLE TRANSMIT HOLD REGISTER EMPTY INTERRUPT ENABLE RECEIVE STATUS INTERRUPT ENABLE MODEM STATUS INTERRUPT  |
| 000.053<br>000.350<br>000.156<br>000.000<br>000.000<br>000.001<br>000.001<br>000.001<br>000.002<br>000.004<br>000.002                       | 603  605X ** 606X 606X 606X 606X 606X 606X 610X 610X   | 8250 ACE EQU DLY EQU THR EQU DLL EQU DLM EQU IER EQU EDA EQU TRE EQU KSI EQU MSI EQU IIR EQU   | U8250  UART CONTROL AN  3500 110 0 0 1 1 00000001B 00000010B 00000100B                 | SYSTEM CONSOLE PORT IF 8250 ACE 220 MIL. SEC. DELAY FOR 8250  RECEIVER BUFFER REGISTER (READ ONLY)  TRANSMITTER HOLDING REGISTER (WRITE ONLY)  DIVISOR LATCH (LEAST SIGNIFICANT)  DIVISOR LATCH (MOST SIGNIFICANT)  INTERRUPT ENABLE REGISTER ENABLE RECEIVED DATA AVAILABLE INTERRUPT ENABLE TRANSMIT HOLD REGISTER EMPTY INTERRUPT ENABLE RECEIVE STATUS INTERRUPT ENABLE MODEM STATUS INTERRUPT INTERRUPT IDENTIFICATION REGISTER   |
| 000.053<br>000.350<br>000.156<br>000.000<br>000.000<br>000.001<br>000.001<br>000.001<br>000.002<br>000.004<br>000.002<br>000.002            | 603 ** 605X ** 606X 607X 5C 608X AC 609X 610X UR 611X 612X UR 613X 614X UR 615X 616X UR 617X 618X UR 619X UC 620X UC 621X UC 622X UC 623X 625X UC  | 8250 ACE EQU DLY EQU RBR EQU THR EQU DLL EQU DLM EQU IER EQU ETA EQU KSI EQU MSI EQU IIR EQU   | U8250  UART CONTROL AN  3500 110 0 0 1 1 00000001B 00000010B 00000100B 00001000B       | ND BIT DEFINITIONS.  SYSTEM CONSOLE PORT IF 8250 ACE 220 MIL. SEC. DELAY FOR 8250  RECEIVER BUFFER REGISTER (READ ONLY)  TRANSMITTER HOLDING REGISTER (WRITE ONLY)  DIVISOR LATCH (LEAST SIGNIFICANT)  DIVISOR LATCH (MOST SIGNIFICANT)  INTERRUPT ENABLE REGISTER ENABLE RECEIVED MATA AVAILABLE INTERRUPT ENABLE TRANSMIT HOLD REGISTER EMPTY INTERRUPT ENABLE RECEIVE STATUS INTERRUPT ENABLE MODEM STATUS INTERRUPT INTERRUPT IDENTIFICATION REGISTER TNVERTED INTERRUPT PENDING (O MEANS PENDING)   |
| 000.053<br>000.350<br>000.156<br>000.000<br>000.000<br>000.001<br>000.001<br>000.001<br>000.002<br>000.004<br>000.002                       | 605X ** 606X 606X 606X 606X 606X 606X 606X 610X UR 611X 612X UR 615X 616X UR 615X 616X UR 616X UR 616X UR 617X 618X UR 616X UR 617X 618X UR 620X UC 621X UC 622X UC 622X UC 625X UC 626X UC 626X UC  | 8250 ACE EQU DLY EQU THR EQU DLL EQU DLM EQU IER EQU EDA EQU TRE EQU KSI EQU MSI EQU IIR EQU   | U8250  UART CONTROL AN  3500 110 0 0 1 1 00000001B 00000010B 00000100B                 | SYSTEM CONSOLE PORT IF 8250 ACE 220 MIL. SEC. DELAY FOR 8250  RECEIVER BUFFER REGISTER (READ ONLY)  TRANSMITTER HOLDING REGISTER (WRITE ONLY)  DIVISOR LATCH (LEAST SIGNIFICANT)  DIVISOR LATCH (MOST SIGNIFICANT)  INTERRUPT ENABLE REGISTER ENABLE RECEIVED DATA AVAILABLE INTERRUPT ENABLE TRANSMIT HOLD REGISTER EMPTY INTERRUPT ENABLE RECEIVE STATUS INTERRUPT ENABLE MODEM STATUS INTERRUPT INTERRUPT IDENTIFICATION REGISTER   |
| 000.053<br>000.350<br>000.156<br>000.000<br>000.000<br>000.001<br>000.001<br>000.001<br>000.002<br>000.002<br>000.002<br>000.001<br>000.002 | 603<br>605X **<br>606X<br>607X SC<br>608X AC<br>609X<br>610X UR<br>611X<br>612X UR<br>613X<br>614X UR<br>615X<br>616X UR<br>615X<br>616X UR<br>620X UC<br>620X UC<br>621X UC<br>622X UC<br>623X<br>624X UR<br>625X UC<br>626X UC<br>626X UC<br>626X UC<br>626X UC<br>626X UC<br>626X UC  | S250 ACE EQU DLY EQU THR EQU DLM EQU DLM EQU HER EQU FRE EQU FRE EQU MSI EQU HIR EQU HIR EQU HIR EQU   | U8250  UART CONTROL AN  3500 110 0 0 1 1 000000001B 00000100B 00001000B 2 00001000B    | SYSTEM CONSOLE PORT IF 8250 ACE 220 MIL, SEC, DELAY FOR 8250  RECEIVER BUFFER REGISTER (READ ONLY)  TRANSMITTER HOLDING REGISTER (WRITE ONLY)  DIVISOR LATCH (LEAST SIGNIFICANT)  DIVISOR LATCH (MOST SIGNIFICANT)  INTERRUPT ENABLE REGISTER  ENABLE RECEIVED TATA AVAILABLE INTERRUPT ENABLE RECEIVE STATUS INTERRUPT ENABLE TRACEIVE STATUS INTERRUPT ENABLE MODEM STATUS INTERRUPT  INTERRUPT IDENTIFICATION REGISTER  TOVERTED INTERRUPT PENDING (O MEANS PENDING) INTERRUPT ID   |
| 000.053<br>000.350<br>000.156<br>000.000<br>000.000<br>000.001<br>000.001<br>000.001<br>000.002<br>000.004<br>000.010<br>000.002<br>000.001 | 603  605X ** 606X 606X 607X 5C 608X AC 609X 610X UR 611X 612X UR 615X 614X UR 615X 616X UR 620X UC 621X UC 622X UC 622X UC 625X UC   | 8250 ACE EQU DLY EQU THR EQU DLL EQU DLM EQU IER EQU EDA EQU KSI EQU MSI EQU IIR EQU   | U8250  UART CONTROL AN  3500 110 0 0 1 1 00000001E 0000010B 0000100B 0000100B 0000110B | SYSTÉM CONSOLE PORT IF 8250 ACE 220 MIL. SEC. DELAY FOR 8250  RECEIVER BUFFER REGISTER (READ ONLY)  TRANSMITTER HOLDING REGISTER (WRITE ONLY)  DIVISOR LATCH (LEAST SIGNIFICANT)  INTERRUPT ENABLE REGISTER  ENABLE RECEIVED DATA AVAILABLE INTERRUPT ENABLE TRANSMIT HOLD REGISTER EMPTY INTERRUPT ENABLE TRANSMIT HOLD REGISTER EMPTY ENABLE TRANSMIT HOLD REGISTER EMPTY ENABLE MECEIVE STATUS INTERRUPT ENABLE MODEM STATUS INTERRUPT INTERRUPT IDENTIFICATION REGISTER  TOVERTED INTERRUPT PENDING (O MEANS PENDING) INTERRUPT ID   |
| 000.053<br>000.350<br>000.156<br>000.000<br>000.000<br>000.001<br>000.001<br>000.001<br>000.002<br>000.002<br>000.002<br>000.001<br>000.002 | 603<br>605X **<br>606X<br>607X SC<br>608X AC<br>609X<br>610X UR<br>611X<br>612X UR<br>613X<br>614X UR<br>615X<br>616X UR<br>616X UR<br>616X UR<br>620X UC<br>620X UC<br>621X UC | 8250 ACE EQU DLY EQU THE EQU DLL EQU DLM EQU EDA EQU TRE EQU EDA EQU HER EQU | U8250  UART CONTROL AN  3500 110 0 0 1 1 000000001B 00000100B 00001000B 2 00001000B    | SYSTEM CONSOLE PORT IF 8250 ACE 220 MIL, SEC, DELAY FOR 8250  RECEIVER BUFFER REGISTER (READ ONLY)  TRANSMITTER HOLDING REGISTER (WRITE ONLY)  DIVISOR LATCH (LEAST SIGNIFICANT)  DIVISOR LATCH (MOST SIGNIFICANT)  INTERRUPT ENABLE REGISTER  ENABLE RECEIVED TATA AVAILABLE INTERRUPT ENABLE RECEIVE STATUS INTERRUPT ENABLE TRACEIVE STATUS INTERRUPT ENABLE MODEM STATUS INTERRUPT  INTERRUPT IDENTIFICATION REGISTER  TOVERTED INTERRUPT PENDING (O MEANS PENDING) INTERRUPT ID   |

| HDOS LF: DEVICE DRIVER, PAM/8 EQUIVALENCES. | H-24 (TI 810)                           |   | HEATH H8ASM V1.4 01/20/78 PAGE 14<br>U8250 15:48:42 20-0CT-80 |
|---|---|---|---|
| 000,002                                     |   | 000000108                               | 7 BIT WORDS   |
| 000.003                                     | 632X UC.8BW EQU                         | 00000011B                               | 8 BIT WORDS   |
| 000.004                                     | 633X UC.2SB EQU<br>634X UC.PEN EQU      | 00000100B                               | TWO STOP BITS SELECTED PARITY COMPUTATION ENABLED             |
| 000.020                                     | 835X UCTEFS EQU                         | 0000100008                              | EVEN FARITY SELECT  |
| 000.040                                     | 636X UC∙SKP EQU                         | 00100000B                               | STICK PARITY  |
| 000,100                                     | 637X.UC.SBEQU                           | 01000000B                               | SET BREAK   |
| 000.200                                     | 638X UC.DLA EQU                         | 10000000B                               | DIVISOR LATCH ACCESS  |
| 000.004                                     | 639X UR.MCR EQU                         | 4                                       | MBBU BBUFBB - BBUFBB.   |
| 000.004                                     |   | 00000001£                               | MODEM CONTROL REGISTER  |
| 000.001                                     | 642X UC.RTS EQU                         | 0000001B<br>00000010B                   | DATA TERMINAL READY   |
| 000.004                                     |   | 00000100B                               | REQUEST TO SEND   |
| 000.010                                     | 644X UC.0U2 EQU                         | 00001000B                               | OUT 2   |
| 000.020                                     | %45X OC.LOO EQU                         | 90010000в                               | LOOP  |
|   | 646X                                    | 5                                       |   |
| 000.003                                     | 648X UC.DR EQU                          | 00000001B                               | LINE STATUS REGISTER  DATA READY                              |
|   |   | 0000000108                              | OVERRUN   |
| 000.004                                     | 650X UC.PE EQU                          | 0000010DB                               | PARITY ERROR  |
| 000.010                                     | %51X OC.FEEDO                           | 00001000B                               | FRANTNO ERROR   |
| 000.020                                     | 652X UC.BI EQU                          | 00010000B                               | BREAK INTERRUPT   |
| 000.100                                     | 653X UC.THE EQU                         | 01000000B,                              | TRANSMITTER HOLDING REGISTER EMPTY                            |
|   | 654X UC.TSE EQU                         | 01000000В                               | TRANSMITTER SHIFT REGISTER EMPTY                              |
| 000.006                                     | 656X UR.MSR EQU                         | 6                                       | MODEM STATUS REGISTER   |
| 000.001                                     | %57X OC.DCS EQU                         | 816000000                               | DELTA CLEAR TO SEND   |
| 000.002                                     | 658X UC.DDR EQU                         | 0000010B                                | DELTA DATA SET READY  |
| 000.004                                     | %59X OC. TER TEGOTT                     | 900001008                               | TRAILING EDGE OF RING   |
| 000.010                                     | 660X UC.DRL EQU                         | 00001000B                               | DELTA RECEIVE LINE SIGNAL DETECT                              |
| 000.020                                     | 662X UC.DSR EQU                         | 0010000B                                | CLEAR TO SEND   |
| 000.040                                     |   | 01000000B                               | DATA SET READY RING INDICATOR                                 |
| 000.200                                     | 664X UC.RLS EQU                         | 1000000B                                | RECEIVED LINE SIGNAL DETECT                                   |
| 000.053                                     | XTEXT                                   |   | RECEIVED LINE STORME DETECT                                   |
|   |   |   |   |
|   | *************************************** | •••••••                                 |   |
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| ***************************************     | *************************************** |   |   |
|   |   |   |   |
| v   | ************************                | ·····                                   |   |
|   |   |   |   |
|   | *************************************** | *************************************** |   |
| . 5.5.6.7.7                                 |   |   |   |
|   |   |   |   |
| ***************************************     | ·····                                   | **********                              |   |
|   |   |   |   |

| 668X *              | • • • • • • • • •  |  |  |  |  |  |
|---------------------|--|--|--|--|--|--|
|                     | *  | 8251   | USART BIT DEFINI   | TIONS.   |  |  |
| 669X.*              |  |  |  |  |  |  |
| 670X                |  |  |  |  |  |  |
| 671X*               | *  | .PORT  | ADDRESSES  |  |  |  |
|                     | T.C.   | EOU.   | ^  | DATA DECICIED TO FUEL  |  |  |
| 8 / 3 %<br>674 X 11 | WN<br>SR   | FOI  | ······   | STATUS REGISTER IS EVEN  |  |  |
|                     |  |  | •  | OTHIOD REDICTER TO REXT  |  |  |
| 676X S              | C.UART   | ÉQÚ  | 372Q   | CONSOLE USART ADDRESS (IF  | F 8251)  |  |
| 677X                |  |  |  |  |  |  |
|                     |  |  |  |  |  |  |
|                     | *  | WODE   | INSTRUCTION CONT   | ROL BITS.  |  |  |
|                     | MT 1D  | EUH  | 01000000   | 1 6705 577   |  |  |
| 82X                 | MT.HB  |  |  |  |  |  |
|                     |  |  |  |  |  |  |
|                     | MITPE"   | ÉQÚ  | 00100000B  | EVEN PARITY  |  |  |
|                     |  | EQU  | 00010000B  | USE PARITY   |  |  |
|                     |  |  | 00000000B  | 5 BIT CHARACTERS   |  | ************   |
|                     |  |  |  |  |  |  |
|                     |  |  |  |  |  |  |
|                     |  |  |  |  |  |  |
|                     |  |  |  | CLOCK X 1  |  |  |
|                     |  |  |  | CLOCK X 64   | •  | ••••••   |
| 693X                |  |  |  |  |  |  |
|                     | *  | COMMA  | VD INSTRUCTION E   | ITS.   |  | ***************************************  |
|                     |  |  |  |  |  |  |
|                     |  |  |  |  |  |  |
|                     |  |  |  |  |  |  |
|                     |  |  |  |  |  |  |
|                     |  |  | 40,000000 B  | ENABLE INTERRUPTS FLAG   | •  | •••••••••••••••••••••••••••••••••••••••  |
|                     | CI.TE  | EQU  | 0000001B   | TRANSMIT ENABLE  |  |  |
|                     |  |  |  |  |  | ***************************************  |
|                     | *  | STATUS   | S READ COMMAND E   | ITS.   |  |  |
|                     | CO DD  | COLL   | 01000000   | The world Trust and I  | (ma am   |  |
|                     |  |  |  |  | /80.08.sc/   |  |
|                     |  |  |  |  |  |  |
|                     |  |  | 00001000B  |  |  |  |
|                     |  |  | 00000100B  | TRANSMITTER EMPTY  |  |  |
| ```710X`U           | SR:RXR   | EØD  | 401000000  | RECEIVER READY   | •  | ***************************************  |
|                     |  |  | 00000001B  | TRANSMITTER READY  |  |  |
| 712                 |  | XTEXT.   | SETCAL   |  |  |  |
|                     |  |  |  |  |  |  |
|                     |  |  |  |  |  |  |
|                     | • • • • • • • • • •  |  | •••••  | ••••••   |  |  |
| 714X *              | *  | SETCAL   | FIXED ADDRES   | S ROUTINES IN SET  |  |  |
|                     |  |  |  | •  | •  |  |
|                     |  |  |  |  |  |  |
|                     |  |  |  |  |  |  |
|                     |  | PROCES   | SSING SET COMMAN   | DS.  |  | *******  |
|                     |  |  |  |  |  |  |
|                     |  |  |  |  |  |  |
|                     |  |  |  |  |  |  |
|                     | 672X U 673X U 673X U 675X S 675X S 675X S 675X S 675X S 675X S 681X U 682X U 702X U 702X X 704X X 70 | 672X 673X UDR 674X USR 674X USR 675X 676X SC.UART 677X 678X 679X ** 680X 681X UMI.1B 682X UMI.1B 683X UMI.2B 684X UMI.PA 686X UMI.PA 686X UMI.L5 687X UMI.L5 687X UMI.L5 687X UMI.L6 689X UMI.L7 689X UMI.L8 690X UMI.1X 691X UMI.16X 692X UMI.16X 692X UMI.16X 692X UMI.16X 692X UMI.16X 692X UMI.17 697X UCI.TE 700X UCI.TE 700X UCI.TE 701X UCI.TE 701X UCI.TE 702X 703X ** 704X 705X USR.BD 706X USR.FE 707X USR.BD 706X USR.FE 707X USR.FE 707X USR.FE 710X USR.TXE 711X USR.TXE 711X USR.TXE 711X USR.TXE 711X WSR.TXE 711X WSR.TXE 711X WSR.TXE 716X * | 672X 673X UDR EQU 674X USR EQU 675X 676X SC.UART EQU 675X 676X SC.UART EQU 675X 676X 676X 676X 676X 676X 676X 676X | 672X 673X UDR EQU 0 674X USR EQU 1 675X 676X SC.UART EQU 372Q 677X 678X 679X ** MODE INSTRUCTION CONT 680X 681X UMI.1B EQU 01000000B 682X UMI.1B EQU 11000000B 683X UMI.2B EQU 11000000B 684X UMI.PE EQU 00100000B 685X UMI.PA EQU 00010000B 686X UMI.L5 EQU 00001000B 687X UMI.L6 EQU 00001000B 687X UMI.L6 EQU 00001000B 689X UMI.L7 EQU 00001000B 690X UMI.L8 EQU 00001100B 690X UMI.1X EQU 0000001B 691X UMI.16X EQU 0000001B 691X UMI.64X EQU 0000001B 691X UMI.64X EQU 00000001B 691X UMI.64X EQU 00000001B 691X UMI.64X EQU 00000001B 691X UMI.64X EQU 00000001B 691X UMI.64X EQU 00000000B 691X UMI.64X EQU 0000000B 691X UMI.64X EQU 0000000B 691X UMI.64X EQU 0000000B 691X UMI.64X EQU 0000000B 691X UMI.64X EQU 000000B 691X UMI.64X EQU 00000B 691X UMI.64X EQU 00000B 691X UMI.64X EQU 0000B 691X U | 672X 673X UDR EQU 0 DATA REGISTER IS EVEN 674X USR EQU 1 STATUS REGISTER IS NEXT 676X SC.UART EQU 372Q CONSOLE USART ADDRESS (IF 677X 676X SC.UART EQU 372Q CONSOLE USART ADDRESS (IF 677X 676X ** MODE INSTRUCTION CONTROL BITS. 680X 681X UMI.1B EQU 0.1000000B 1 STOP BIT 682X UMI.1B EQU 0.1000000B 1 STOP BITS 683X UMI.2B EQU 1.1000000B 2 STOP BITS 684X UMI.7B EQU 0.00100000B 2 STOP BITS 685X UMI.7B EQU 0.0010000B USE PARITY 686X UMI.7B EQU 0.0000000B USE PARITY 686X UMI.1C EQU 0.0000000B S BIT CHARACTERS 687X UMI.1C EQU 0.0000100B B BIT CHARACTERS 687X UMI.1C EQU 0.0001000B B BIT CHARACTERS 689X UMI.1C EQU 0.0001100B B BIT CHARACTERS 689X UMI.1C EQU 0.0001100B B BIT CHARACTERS 689X UMI.1C EQU 0.000001B CLOCK X 16 691X UMI.6AX EQU 0.000001B CLOCK X 16 692X UMI.6AX EQU 0.000001B CLOCK X 64 693X 694X ** COMMAND INSTRUCTION BITS. 695X UCI.IR EQU 0.0000001B READER—ON CONTROL FLAG 697X UCI.RE EQU 0.0000001B READER—ON CONTROL FLAG 698X UCI.RE EQU 0.0000000B READER—ON CONTROL FLAG 698X UCI.RE EQU 0.000000B READER—ON CONTROL FLAG 698X UCI.RE EQU 0.000000B READER—ON CONTROL FLAG 698X UCI.RE EQU 0.000000B READER—ON CONTROL FLAG 699X UCI.RE EQU 0. | 672X 673X UDR EQU 0 DATA REGISTER IS EVEN 6744 USR EQU 1 STATUS REGISTER IS NEXT 6765 SC. UART EQU 3720 CONSOLE USART ADDRESS (IFF 8251) 6757 ACRE SC. UART EQU 3720 CONSOLE USART ADDRESS (IFF 8251) 6778 ** MODE INSTRUCTION CONTROL BITS. 6800 HILLS EQU 01000000B 1 STOP BIT 682X UHILLB EQU 01000000B 1 STOP BITS 683X UHILLB EQU 11000000B 2 STOP BITS 684X UHILLB EQU 00010000B EVEN PARTTY 685X UHILLB EQU 00010000B SEVEN PARTTY 685X UHILLB EQU 00001000B BIS PARTTY 686X UHILLC EQU 0000100B 5 BIT CHARACTERS 686X UHILLC EQU 0000100B 7 BIT CHARACTERS 688X UHILLC EQU 00001010B BIT CHARACTERS 689X UHILLB EQU 00001010B BIT CHARACTERS 690X UHILLS EQU 0000010B CLOCK X 16 697X UHILLS EQU 0000001B CLOCK X 16 692X UHILGAX EQU 00000001B CLOCK X 16 692X UCILRD EQU 00100000B PRABER DR CONTROL FLAG 698X UCILRD EQU 00000001B CLOCK X 16 692X UCILRD EQU 00000000B PRABER DR CONTROL FLAG 698X UCILRD EQU 0000000B PRABER DR CONTROL FLAG 698X UCILRE EQU 000000B PRABER DR CONTROL FLAG 698X UCILRE EQU 000000B PRABER DR CONTROL FLAG 699X UCILRE EQU 000000B PRABER DR CONTROL FLAG 699X UCILRE EQU 000000B PRABER DR CONTROL FLAG 699X UCILRE EQU 00000B PRABER DR CONTROL FLAG 699X UCILRE EQU 00000B PRABER DR CONTROL FLAG 699X UCILRE EQU 0000B PRABER DR CONTROL FLAG 699X UCILRE EQU 0000B PRABER DR CONTROL FLAG 699X UCILRE EQU 000B PRABER DR CONTROL FLAG 699X UCILRE EQU 000B PRABER DR CONTROL FLAG 699X UCILRE EQU 000B PRABER |

| HDOS LP: DEVICE DRIVER,<br>8251 USART BIT DEFINITION |   |             | s                    | HEATH H8ASM<br>ETCAL 15:48:45 2         | V1.4 01/20/78<br>0-0CT-80 | PAGE 16                                 |
|--|---|-------------|----------------------|---|---------------------------|---|
| 042,201  | 721X                                    | ORG         | USERFWA+1            |   | •••••                     | *****                                   |
| 042.201  | 722X<br>723X \$SNA                      | ····ps····· | 3                    |   |                           |   |
| 042.204  | 724X<br>725X ¥DCS                       | B\$         | 3                    |   |                           |   |
| 042,207  | 726X<br>727X ¥CNA                       | sg          | 3                    |   |                           |   |
| 042.212  | 728X<br>729X \$FST                      | ····bs····· | 3                    | •••••                                   |                           |   |
| 042.215  | 730X<br>731X \$TBLS                     | DS          | 3                    | ••••••                                  |                           |   |
| 042.220  | 732X<br>733X \$WTBLS                    | DS          | 3                    |   |                           | *************************************** |
| 042.223  | 734X<br>735X \$LBD<br>736X              | DS          | 3                    |   | •••••••                   |   |
| 042.226  | 737X \$SOP<br>738X                      |             | 3                    | *************************************** | •••••                     | •••••                                   |
| 042,231  | 739X \$PBF<br>740X                      | DS          | 3                    |   |                           | •••••                                   |
| 042.234  | 741X \$PBV<br>742X                      | DS          | 3                    |   |                           | •••••                                   |
| 042,237  | 743X<br>744                             | DS<br>CODE  | 60 RESERVED<br>PIC   | *************************************** | ***********************   | *************************************** |
|  | 745<br>746 *                            | CODE H      | EADER                |   |                           |   |
| 000.006 307  | 747<br>748                              | DB          | DVDFLV               | DEVICE DRIVER FLAG                      | VALUE                     | *************************************** |
| 000.007 004<br>000.010 001                           | 749<br>750                              | DB<br>DB    | DT.CW<br>00000001B   | DEVICE CAPABILITY:<br>MOUNTED UNIT MASK | WRITE                     |   |
| 000.011 001<br>000.012 004                           | 751<br>752                              | DB<br>DB    | 1<br>DT.CW           | ONLY 1 UNIT<br>O: CAPABLE OF WR         | ITE.                      |   |
| 000.013<br>000.022 307                               | 753<br>754                              | DS<br>DB    | 7<br>DVDFLV          | 1-7: IGNORED                            |                           |   |
| 000.023 000 000                                      | 755<br>756<br>757                       | DW<br>SET   | 0                    | •••••                                   | /80.09.sc/                | •••••                                   |
| 000.000  | 757 •<br>758<br>759                     | ERRNZ       | 0250<br>*<br>DVD.STE |   | /80.09.sc/<br>/80.09.sc/  |   |
| 000.025  | 759                                     | DS          | DVD.STE              | RESERVED AREAS                          | /80.09.sc/                |   |
| ·····  |   |             |                      |   |                           |   |
|  | •••••                                   |             |                      |   |                           | •••••                                   |
| .,   | •••••                                   |             |                      |   |                           |   |
|  | • |             | •••••                | *************************************** |                           |   |
|  |   |             |                      |   |                           |   |
|  |   |             |                      |   |                           |   |
|  |   |             |                      | *************************************** |                           | *************************               |

|                               | JĖR, H-24 (†)                           |                                       |                            | HEATH H8ASM V1.4 01/20/78 PAGE 17<br>15:48:462Ω-DCT-80 |
|-------------------------------|---|---------------------------------------|----------------------------|--|
|                               | 762                                     |                                       | ASSEMBLY CONSTANTS         | ***************************************                |
| •••••                         | 7.63<br>764                             | *                                     | ••••••                     |  |
| ***************************** |   | •                                     |                            |  |
|                               |   | **                                    | FLAG DEFINITIONS           |  |
| •••                           | 7.67<br>768                             | . *                                   | •••••                      |  |
| 000.001                       |   | .FFORM.                               | ERU00000018                | FORM-FEED. UPON .CLOSE                                 |
|                               | • |                                       |                            |  |
|                               |   | **                                    | DEFAULT DEVICE DEFINITIONS |  |
|                               |   | .*                                    |                            |  |
| 000.340<br>000.030            |   | DELT DE                               |                            | DEFAULT LPO: ADDRESS                                   |
|                               |   | DFLT.BD                               |                            | DEFAULT.BAUD.RATE. = . A8QO. BAUD.                     |
| 000.001                       | 7.76                                    | DFLT.FG                               |                            | DEFAULT FLAG: FORM                                     |
| 000.006<br>000.204            |   | DFLT.LI                               | EWU 6                      | LINES/INCH   |
| 000.102                       |   | DFLT.WD<br>DFLT.FL                    | EQU 132<br>EQU 66          | CHARACTERS/LINE  |
| 000.074                       |   | DFLT.LC                               |                            | 11 INCH FORM<br>LINE.CQUNT.⇒.6Q.LINES/PAGE.            |
| 000 004                       | 781                                     |                                       |                            |  |
| 000.001                       |   | DFLT.LX<br>DFLT.CX                    |                            | INITIAL LINE INDEX                                     |
| 0000001                       | 763                                     | THE LACK                              | EQU 1                      | INITIAL COLUMN INDEX                                   |
|                               |   | ••••••••••                            |                            |  |
|                               |   |                                       |                            |  |
|                               | • |                                       |                            |  |
|                               |   |                                       |                            |  |
|                               |   |                                       |                            |  |
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|                               |   | × × × × × × × × × × × × × × × × × × × |                            |  |
|                               |   | × × × × × × × × × × × × × × × × × × × |                            |  |

| "ADOS LP: BEVICE DRIVER, A-<br>SET CODE    |             |   |   |   | HEATH H8ASM V1.4 01/20/78<br>.15:48:46 20-001-80 |   | 18                                      |
|--|-------------|---|---|---|--|---|---|
|  |             |   |   |   |  |   |   |
|  | 786<br>797  | ***                                     | SET COD                                 | E ENTRY POINT   | · · · · · · · · · · · · · · · · · · ·            | , • • • • • • • • • • • • • • • • • • • | **********                              |
| ••••                                       | 788         | *                                       | SET COM                                 | MANDS ENTER HERE  |  | •••••                                   |   |
| •    | 789.<br>790 | ··*                                     | "ENTRY:                                 |   | •••••  |   |   |
|  | 791         | *                                       | EMIKI+                                  | (DE) = LINE POINTER<br>(A) = UNIT NUMBER  |  |   |   |
| ***************************************    | 792°<br>793 |   |   |   | •••••••••••••••••••••••••••••••••••••••          |   | • • • • • • • • • • • • •               |
| •••••                                      | 773<br>794  | ···*······                              | EXIT:                                   | 'C' CLEAR IF OK<br>'C' SET IF ERROR   |  |   |   |
|  | 795         |   |   | (A) = ERROR CODE  |  |   |   |
|  | 796         | *                                       | HSES!                                   | A11   |  |   |   |
| •    | 798         | ···*·····                               | USES:                                   | ALL   |  | •••••                                   |   |
| 000.053                                    | 799         |   |   |   |  |   |   |
| 000.000                                    | 800<br>801  | SETNTR                                  | ERU<br>ERRNZ                            | *<br>*-DVD.STE  |  |   |   |
| 000.053 Z47<br>000.054 302 103 000         | 802.        |   | 'ANA'''                                 | A   | •••••••••••••••••••••••••••••••••••••••          |   |   |
| 000.054 302 103 000<br>000.057 102         | 803<br>804  |   | JNZ<br>VOV                              | SET1<br>B,D   |  |   | · · · · · · · · · · · · · · · ·         |
| 000.060 113                                | 805         |   | MOV                                     |   | R LIST ADDRESS                                   |   |   |
| 000.061 021 342 001<br>000.064 041 200 001 | 806<br>807  |   | LXI                                     | C,E (BC) = PARAMETE<br>D,PRCTAB (DE) = PROCESSO<br>H-ORITAB   | R TABLE ADDRESS                                  |   | *********                               |
|  | 898         | • | CALL                                    | H,OPTTAB (HL) = OPTION TO   | ABLE AUDKESS                                     | • |   |
| 000.072 330<br>000.073 315 201 042         | 809         |   | RC.                                     | WASSITED TO STATE OF THE STATE | ·····  |   |   |
| 000.076 310                                | 811         |   | RZ                                      | ∜SNA<br>AT END OF LINE  | •  |   |   |
| 000.077 076 040                            | 812         |   | MVI                                     | A,EC,ILO ILLEGAL OPTION   |  |   | • |
| 000.101 067<br>000.102 311                 | 813<br>814  |   | STC<br>RÉT                              |   |  |   |   |
|  | 815         |   |   |   |  |   |   |
| 000.103 076 033<br>000.105 067             | 816         | "SEYI""                                 | MVY<br>STC                              | A,EC,UUN  |  | •••••                                   |   |
| 000.106 311                                | 818.        | · • • • • • • • • • • • • • • • • • • • | RET                                     | ••••••  | ••••••   |   |   |
|  |             | • | • |   |  |   |   |
|  |             | • |   |   |  |   |   |
|  | 820         | ***                                     | PROCESS                                 | ORS .   |  |   |   |
|  | 821         | *                                       |   | •••••••••••••••••••••••••••••••••••••••   |  |   | • |
|  |             |   |   |   | ••••••   |   |   |
|  |             |   |   |   |  |   |   |
|  | 823<br>824  | **                                      | FLAG - I                                | ROCESS FLAG OPTIONS   |  |   |   |
|  |             | *                                       |   |   |  | •••••                                   |   |
| •••••••••••••••••                          | 826         | · · 🏗 · · · · · · · · · · · · · · · · · | FRUCESS                                 | FLAG TYPE OPTION SPECIFICATIONS   | •••••  | ••••••                                  |   |
|  | 827         |   | · Hawadiria                             |   |  |   |   |
|  | 828<br>829  | *                                       | ENTRY, I                                | XIT, AND USE SAME AS PBF  |  |   |   |
|  |             |   |   | \$PBF PROCESS BYTE FLA  |  | • |   |
| 042.231                                    | 830         | FLAG                                    | EQU                                     | TROCESS DITE FE   | mua .  |   |   |
| 042.231                                    |             | FLAG                                    | EGU                                     | TROCESS BITE PER  |  |   |   |
| 042.231                                    |             | FLAG                                    | EUU                                     | TROCESS BITE FLA  |  | ·····                                   |   |
| 042.231                                    |             | FLAG                                    |   | TROCESS BITE FLA  |  |   | • |

| HDOS LP: DEVICE DRIVER, H               |                         |               |   |   | .YAL                                    | HEATH HBASM V<br>15:48:46 20-           | 1.4 01/20//8<br>QCT-80                  | PAGE                                    | 19              |
|---|-------------------------|---------------|---|---|---|---|---|---|-----------------|
|   |                         |               |   |   |   |   |   |   |                 |
| ************************************    | 832 **                  | VAL           | - PROCESS V                             | ALUE OPT                                | TONS                                    |   |   | ,                                       |                 |
| ••••                                    | 833 *                   |               |   |   |   |   |   |   |                 |
|   | 834 *                   |               | ESS VALUE T                             | YPE OPTI                                | ON SPECIFICATIO                         | INS                                     |   |   | .,              |
| `q_a                                    | 83 <u>5</u> *.<br>836 * |               |   | • | • | •••••                                   |   |   |                 |
|   | 837 *                   | ENTR          | Y, EXIT, AN                             | D USE SA                                | ME AS PBV                               |   |   |   |                 |
|   | 030                     |               |   | • |   |   |   |   |                 |
| 042,234                                 | 839 VA                  | it EGU        | \$PBV                                   | • | PROCESS BYTE V                          | ALUES                                   |   |   |                 |
|   |                         |               |   |   |   |   |   |   |                 |
|   | ••••••                  |               |   | • |   | *****                                   | • |   | • • • • • • • • |
|   | 841 **                  | PAUT          | - PROCESS I                             | DAILT BAT                               | <u>.</u>                                | ,                                       |   |   |                 |
|   | 842 *                   | BHOD          | - PROCESS I                             | DHOD KAII                               | <b>.</b>                                |   |   |   |                 |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 843 *                   | PROC          | ESS BAUD RA                             | TE OPTIO                                | N SPECIFICATION                         | i•                                      | ******                                  | •••••                                   | • • • • • • •   |
|   |                         |               |   |   |   |   |   |   |                 |
|   | 846 *                   | ENTR'         | Y: (BC)                                 | = TEXT                                  | ADDRESS                                 |   |   |   |                 |
|   | 846 *<br>847 *          |               | : <del></del>                           | : =                                     |   | ••••••••                                | • | ••••••                                  |                 |
| *************************************** | 848 *                   | EXIT          | (BC)                                    |   | ADDRESS UPDATED                         |   |   |   |                 |
| •                                       | 849 *<br>850 *          |               |   | AR IF OK<br>IF ERRO                     |   |   |   |   |                 |
| •••••                                   | 851 *                   | •••••         |   | ERROR CO                                |   |   | • | • |                 |
| *************************************** | 852 *                   | <b></b>       |   |   | · -                                     |   |   |   |                 |
|   | 853 ¥                   | USES          | ALL                                     |   |   |   |   |   |                 |
|   | 854 <b>*</b><br>855     |               |   | • |   | • |   |   |                 |
| 000.107 076 012                         | 856 BA                  | UD MVI        | A,10                                    |   | (A) = DEFAULT                           | RADIX                                   |   |   |                 |
| 000.111 315 207 042                     | 857                     | CALL          | \$ĊNA                                   | • • • • • • • • • • • • •               | • |   |   |   |                 |
| 000.114 332 132 000<br>000.117 353      | 858<br>                 | JC<br>XCHG    | BAU1                                    | • | /nes paun ria                           |   |   |   |                 |
| 000,120 315 223 042                     | 860                     | CALL          | \$LBD                                   |   | (DE) = BAUD RA                          | 1 C.                                    |   |   |                 |
| 000.123 302 132 000                     | 861                     | JŃŻ           | BAU1                                    | • |   |   |   |   | • • • • • •     |
| 000.126 042 037 004<br>000.131 311      | 862<br>863              | SHLD          | TLP.BAU                                 |   | SET BAUD RATE                           | WORD                                    |   |   |                 |
| 000.151 311                             | 864                     | NE I          |   |   |   |   |   |   |                 |
| 000.132 076 037                         | "865" BA                | ויועא ייינטנט | A)EC.IL(                                | ۸                                       | TLLEGAL VALUE                           | • |   | • |                 |
| 000.134 067<br>000.135 311              | 866                     | STC           | • |   |   |   | • |   |                 |
| 000.135 311                             | 867                     | RÉT           |   |   |   |   |   |   |                 |
| ••••••                                  |                         |               | • | • |   | •••••                                   |   | •••••                                   |                 |
|   |                         |               |   |   |   |   |   |   |                 |
|   | 869 **                  | LPI           | - ppnrs                                 | EGG I THE                               | 2/1869 057704                           |   |   |   |                 |
| **************************************  | ∵876∵∵¥                 |               |   | LINES                                   | S/INCH OFTION                           | • | • | • |                 |
| <b></b>                                 | 871 *                   | INPU          | EITHER 6 C                              | OR 8 FOR                                | THE LINES/INCH                          |   |   |   |                 |
|   | 872 *                   |               |   |   |   |   |   |   |                 |
| 000.136                                 | 873<br>874 LF           | 1ego          | ······*                                 |   |   | • | · · · · · · · · · · · · · · · · · · ·   |   |                 |
|   | 875                     |               |   |   |   |   |   |   |                 |
| 000.136 076 012                         | 876                     | WOI           | A,10                                    |   | DEFAULT BASE =                          | .10                                     |   | • |                 |
| 000.140 315 207 042                     | 877<br>878              | CALL          | \$CNA                                   |   | MAHIMIBABAI MIN                         | PAYATOXI DATTI                          |   |   |                 |
|   | 879                     | JC            | LPII                                    |   | NOT A GOOD NUM                          | EKIC VALUE                              |   |   |                 |
| 000.146 174                             | 880                     | MOV           | АўН                                     |   | ••••••                                  |   |   | • | • • • • • • •   |
| 000.147 247                             | 881                     | ANA           | Α                                       |   |   |   |   |   |                 |

|   |   |  |              |  | LPI                                     | 15:48:47 20-0CT-80                      |
|---|---|--|--------------|--|---|---|
|   | ******  |  |              |  | *************************************** |   |
| 302. 500. 000                           | 885   |  | zwz          |  |   | aig                                     |
| <b>5-200</b>                            |   | •••••  |              | *****  |   |   |
|   |   |  |              |  |   |   |
|   |   |  |              |  |   | CHAN'!                                  |
| 502 200 500                             |   |  | 50           | L. 11  | AHERE 19 100                            | SMALL                                   |
| 376.002                                 | .888  | •  | .CPI         | 7  | • |   |
| 312 200 000                             | 889   |  | JZ           | LPI1   | 7 IS NOT LEGA                           | iL .                                    |
| 77/ 0//                                 |   |  |              |  | ••••••                                  | *************************************** |
|   |   |  |              |  | ********                                |   |
| 322 200 000                             |   | .2   | JNC          | LPII   | STILL TOO BIG                           |   |
| • |   | ***************************************  | . ଚድ୍ଚ୍ୟଦ୍ୟବ | · 'A' '' የቴሌልስ '' ነውሂቶቸው ''  |   |   |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |   | 4-   |              | H CCOME WIDIN  | i e                                     |   |
| 062 041 004                             | 896   | •  | STA          | TLP.LPI  | •••••                                   | *************************************** |
| 247                                     | 897   |  | ANA          | A  | CLEAR CARRY                             |   |
| 311                                     |   |  | RET          |  | ******                                  | *************************************** |
|   |   |  | ·            |  |   |   |
|   |   | *  | PRUCESS      | AN ILLEGAL WID   | TH                                      |   |
| 074037                                  |   | Terr   | MOT          |  | • |   |
|   |   |  |              | HIECTILY   |   |   |
| 311                                     | 904   |  | RET          |  | • | ······                                  |
|   | 908   |  | TYPE VA      | LID OFTIONS ON   | USER CONSOLE                            |   |
|   |   | *  |              |  |   |   |
| • |   | *  | NOTE:        | "IF MORE SPACE"  | ISTNEĆESSARYJ M                         | ANY OF THE SPACES IN THIS               |
|   |   |  |              | MESSAGE MAY BE   | REPLACED BY TA                          | BS, THIS WAS DONE FOR THE               |
|   |   |  |              | EASY PREPARATI   | אֹל.                                    |   |
|   |   | · <b>本</b>   | .,           |  |   | ······································  |
| 315 136 031                             |   | HELP   | CALL         | <b>\$TYPTY</b>   |   |   |
|   | 917   |  |              | 'NC, NL, 'Set Opt  | ions: 'INLINL                           |   |
|   | 918   |  |              | 'BAUD n  | Baud rate',NL                           |   |
|   |   |  |              |  | Form Feed at                            |   |
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|   |   |  | 5            | and the second s |   |   |
|   |   |  |              |  |   |   |
| 120 101 107                             | 924   |  |              | 'PAGE n  |   |   |
|   |   | •  | DB           | "'PORT "n"   | Port Number',                           |   |
|   | 926   |  |              | 'WIDTH n   | Characters/Li                           | ne [0-132]',NL                          |
|   |   |  |              | NL FENL  | • |   |
| 257<br>244                              | . 928   |  | XRA          | .A   | CLEAR CARRY                             |   |
|   | 727   |  | KE 1         |  |   | ·                                       |
|   |   |  |              |  |   |   |
| • | • • • • • • • • •   | •  | *            | •  | • |   |
| • |   |  |              |  | • |   |
|   | 302 200 000  175 376 006 332 200 000  376 007 312 200 000  376 011 322 200 000  062 041 004 247 311  076 037 067 311  076 117 128 110 105 114 116 117 106 114 105 116 114 105 116 114 105 116 114 105 116 114 105 117 120 117 122 127 111 104 012 712 127 111 104 012 712 127 311 | 883 175 884 376 006 885 332 200 000 886 887 376 007 888 312 200 000 889 376 011 891 322 200 000 892 893 894 894 895 062 041 004 896 247 897 311 898 899 0676 037 902 067 903 311 904 906 901 076 037 902 907 908 909 910 911 912 913 914 315 136 031 916 012 012 123 917 102 101 125 918 106 117 122 919 110 105 114 920 116 117 108 921 114 105 116 922 114 120 111 923 120 101 107 924 120 117 122 925 127 111 104 926 012 127 929 | 175          | 883 175 884 MOV 376 006 885 CPI 332 200 000 886 JC 887 376 007 888 CPI 312 200 000 889 JZ 376 011 891 CPI 322 200 000 892 JNC 893 894 * PROCESS 895 062 041 004 896 STA 247 897 ANA 311 898 RET 899 900 * PROCESS 901 076 037 902 LPII MVI 067 903 STC 311 904 RET  906 ** HELP - 907 * 908 * TYPE VA 908 * TYPE VA 910 * 910 * 911 * 912 * 913 * 914 * 915 136 031 916 HELP CALL 012 012 123 917 DB 102 101 125 918 DB 106 117 122 919 DB 116 117 106 921 DB 117 117 107 921 DB 117 117 108 921 DB 117 117 107 924 DB 117 117 117 117 DB 117 117 DB 117 117 DB 118 DB 119 117 117 DB 1 | 175   884                               | 175                                     |

| MADOS LPT DEVICE DRIVER; A-<br>SET CODE |   |   | HEATH H8ASM V1.4 01/20/78 PAGE 21<br>15:48:48 20-0CT-80 |
|---|---|---|---|
|   |   |   |   |
|   | 931 ***                                 |   | 5   |
| ••••                                    | 932¥<br>933*                            | • |   |
|   | 733 *                                   |   |   |
|   |   | ,                                       |   |
| •••••                                   |   | • |   |
|   | 935 **                                  | OPTTAI                                  | B - OPTION TABLE  |
|   | 936 *                                   |   |   |
| 001.200 341 001                         | 937<br>938 OPT                          | TAB DW                                  | OPTTABE   |
| 001.202 006                             | 939                                     | DB                                      | 6   |
|   | 940                                     | • |   |
| 001.203 106 117 122                     | . 941                                   | <u>DB</u>                               |   |
| 001.212 035 004<br>001.214 000          | 942<br>943                              | DB<br>DW                                | TLP+FLG<br>O  |
|   | 944                                     | · · · · · · · · · · · · · · · · · · ·   | ···×  |
| 001.215 116 117 106                     | 945                                     | DB                                      | 'NOFOR','M'+2000,FLAGI,F.FORM,O                         |
| 001.226 035 004<br>001.230 000          | 946<br>947                              | D₩                                      | TLF.FLG   |
|   | 948                                     | DB                                      | 0   |
| 001.231 114 105 116                     | 949                                     | DB                                      | 'LENGT','H'+2000, VALI, 10, 4, 112                      |
| 0017243 043 004                         |   | Ď₩                                      | TUPILEN   |
| 001.245120.101.107                      | . 951<br>. 952                          | nr                                      | **************************************                  |
| 001.255 044 004                         | 953                                     | DW                                      | TLP+LC  |
|   | 954                                     |   |   |
| 001,257 120 117 122                     | . 955<br>958                            | DB<br>DW                                | 'POR','T'+200Q,VALI,8,0,377Q TLP,FOR                    |
| 001.287 038 004                         | 957                                     | L/W                                     | TEP-POR   |
|   | 958                                     | DB                                      | ~~WIDT?; "H" +2000; VALI; 10; 0; 132                    |
| 001.302 042 004                         | 959                                     | Iω                                      | TLP.WID   |
| 001.304 102 101 125                     | 960<br>961                              | DB                                      | 'BAU','D'+200Q,BAUDI                                    |
| 001:311000000000                        | 982                                     | рв                                      | 0,0,0,0,0   |
|   | 963                                     |   |   |
| 001.316 114 120 311 001.322 000 000 000 | 964<br>965                              | DB                                      | "TEP';'I'+2000;LPII                                     |
|   | 968                                     | DB                                      | 0,0,0,0   |
| 001.327 110 105 114                     | 967                                     | DB                                      | 'HEL';'P'+200Q;HELPI                                    |
| 001.334000000000                        | 968                                     | DB                                      |   |
| 001.341000                              | . 969<br>970                            | TARE TR                                 | ····/g······  |
|   | )                                       | 20° 40°                                 |   |
|   |   | • |   |
|   | • |   |   |
|   | 972 **                                  | PROTAR                                  | - PROCESSOR TABLE                                       |
|   | ··973···¥···                            |   |   |
|   | 974                                     |   |   |
| 001.342                                 | 975 FRC<br>976                          | LAR DS                                  |   |
|   | 970<br>977 FLA                          | STEQU                                   | *-FRCTAB/2  |
| 001.342 231 042                         | 978                                     | ₽₩                                      | FLAG  |
| *************************************** | ··•  •  •  •  •  •  •  •  •  •  •  •  • |   |   |
| 000.001                                 | .980 VAL                                | EQU                                     | *-PRCTAB/2  |
|   |   |   |   |

| HDOS LP: DEVICE DRIVER,                 | H-24 (TI 810)                           | ••••••••                                | •••••                                   | HEATH H8ASM V1.4 | 01/20/78                                | PAGE 22                                 |
|---|---|---|---|------------------|---|---|
| SET CODE                                |   | •••••                                   | FRCTAB                                  | 15:48:4920-0CT-  | :80                                     |   |
| 001.344 234 042                         | 981 DW                                  | VAL                                     | *************************************** |                  |   |   |
| 000.002<br>001.346 107 000              | 982<br>983 BAUDI EQU<br>984 DW<br>985   | *-PRCTAB/2<br>BAUD                      |   |                  |   |   |
| 000.003                                 | 985<br>986 LPII EQU<br>987 DW           | *-PRCTAB/2                              |   |                  |   |   |
| 000.004<br>001.352 204 000              | 988<br>989 HELFI EQU<br>990 DW          | #-PRCTAB/2                              |   |                  | • |   |
| 001+332 204 000                         | 990 IIW                                 | HELP                                    | •••••                                   |                  |   |   |
|   |   |   | •••••                                   |                  | *******************                     |   |
| 001.354<br>000.000<br>001.354           | 992 • SET<br>993 ERRN<br>994 DS         | 1354A<br>Z *<br>DVD.ENT                 |   |                  |   |   |
| · · · · · · · · · · · · · · · · · · ·   |   |   |   |                  |   |   |
| *************************************** |   |   |   |                  | • | •••••                                   |
| *************************************** | •••••                                   |   |   |                  | ••••••                                  |   |
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| ••••••••••••••••••••••••••••••••••••••• | •••••                                   |   | ••••••••••••••••••••••••••••••••••••••• |                  |   |   |
|   | ••••••                                  |   |   |                  |   |   |
|   | ••••••                                  | *************************************** | •••••                                   | ••••••           |   |   |
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|   |   |   | ••••                                    |                  |   |   |
|   | •••••                                   | • |   |                  |   |   |
|   |   | *************************************** | •••••                                   |                  | ······································  | ••••••                                  |
|   |   |   | ••••••                                  |                  |   |   |
|   | •••••                                   | •••••                                   | •••••                                   |                  |   |   |
| •••••                                   | ••••••                                  | ······································  |   |                  |   |   |
| ,××××××××××××××××××××××××××××××××××     | 4                                       |   |   |                  |   |   |
|   |   |   |   |                  |   |   |
| *************************************** | • | • |   | ·····            |   |   |

| HDOS'LF: DEVICE DRIVER, H               | F-2'4 ' (         | TI 810)                                 |   |  |   | HEATH HBASM V1.4 01/20/78 15:48:49 20-001-80 | PAGE 23                                 |
|---|-------------------|---|---|--|---|--|---|
|   |                   |   |   |  |   |  |   |
| *************************************** |                   | ***                                     | LPDVD E                                 | NTRY POINT   | *************************************** | ••••••                                       |   |
| *************************************** | 998<br>999        |   | ENTRY:                                  |  | ESS CODE                                |  | •••••                                   |
| ••••                                    | 1000              |   | E.M.I.K.I.                              | (₽G)≡.BYTE.  |   |  |   |
|   | 1001              | *                                       |   | (DE) = BUFF  | ER ADDRESS AS PER                       | ROUTINE                                      | • |
| •••••                                   | 1002<br>1003      |   | EXIT:                                   |  | CLEAR IF NO ERRORS                      |  | ·····                                   |
|   | 1004              |   | EVIII                                   | (row) = 'C' (  | CLEAK IF NO EKKUKS<br>SFT TF FRRAR      |  |   |
| ••••••                                  | 1005              | ····•×                                  | • | ················(Ă)···`                                  | SET IF ERROR<br>= ERROR CODE            | ••••••                                       | •••••                                   |
| *************************************** | 1006              | *                                       |   |  |   |  |   |
|   | 1007<br>1008      |   | ÜSES                                    | ALL  |   |  | *************************************   |
| ••••••                                  | 1009              |   | • | •                  |   |  | •••••                                   |
| •••••                                   | 1010              |   |   |  |   |  |   |
| 002.000                                 | 1011              |   | ENV                                     | ·  |   | ***************************************      | ••••••                                  |
| 002:000                                 | .1013             | LPDVD                                   | EQU<br>EREN7                            | *<br>``*~bVb∵€N†````                                     |   |  | • |
| 002,000 376 013                         | 1014              |   | CPI                                     | DC.MAX   |   |  |   |
| 005.005352.055.005.                     |                   |   |   | LEDADI   | TF TELEGAL PRO                          | JČEŠS CODE                                   | ••••••                                  |
| 002,005315.076.031                      | 1016              |   | CALL                                    | * * # **** Pr. Pr. # * * * * * * * * * * * * * * * * * * | · · · · · · · · · · · · · · · · · · ·   | ,  |   |
| 002.003 313 078 031                     | 1017              |   | DB                                      | **************************************                   | ""ENTRY FROCESSOF<br>READ               | ξ  |   |
| 002:011113                              | 1019              | • | DB                                      | ··CPWRITE-*····  | WRITE                                   | •      | • |
| 002.012 014                             | 1020              |   | DB                                      | LPNSUIT-*  | READR                                   |  |   |
| 002.013 013 002.014 027                 | 1021<br>1022      |   | DR                                      | TEPNSOIT-*   | OPENR                                   | ***************************************      | ••••                                    |
| 002,015 011                             | 1053.             |   | DB<br>DB                                | _LPOPENW-*<br>   | OPENW<br>OPENU                          |  | • |
| 002.016 150                             | 1024              |   | DB                                      | LPCLOSE-*  | CLOSE                                   |  |   |
| 002.017 013                             | 1025              | • | DB                                      | "LFABORT-#"  | ABORT                                   | •••••  | •••••                                   |
| 002.020 012<br>002.021 020              | 1026              |   | DB<br>DB                                | LPABORT-*<br>*UPLOADD-*******                            | MOUNT                                   |  |   |
|   | 1028              |   | DE                                      | CLEONDO-*  | LOADD                                   |  |   |
| 002.022078.012                          | ~1029             | TEDADI                                  |   | FECTIUR  | TELEGAL                                 | REDUEST                                      | • |
| 002,024 067<br>002,025 311              | 1030              |   | STC                                     |  |   |  |   |
| 002.023 311                             | 1031°             |   | .KET                                    |  |   |  | *************************************** |
| *************************************** |                   | • |   | •                  | • | ••••••                                       | •••••                                   |
|   |                   |   |   |  |   |  |   |
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|   |                   |   |   | ***************************************                  | • | ***************************************      | •••••••••••••••                         |
| •••••                                   |                   |   |   |  |   |  | • |
|   |                   |   |   |  |   |  | <i>t</i>                                |
| *************************************** | • • • • • • •     | · · · · · · · · · · · · · · · · · · ·   |   | •••••••••  | • | •••••  | • |
| ,                                       |                   |   |   |  |   | •••••  | •••••                                   |
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| *************************************** |                   |   |   |  |   |  |   |
|   |                   |   |   |  |   |  | • |

| idos LP: DEVIC<br>LPNSUIT/LPABOR        |   |               |   |   |   |                                       |   | 15                                      | 48:50 20-0                              | .4 01/20/78<br>CT-80                    | PAGE                                    | 24                |
|---|---|---------------|---|---|---|---------------------------------------|---|---|---|---|---|-------------------|
|   |   |               |   |   |   |                                       |   |   |   |   |   |                   |
|   | ••••••                                  | 1035          | ***                                     | LPNSUIT                                 | r – LINI                                | E PRINTER N                           | TIUS TON                                | ABLE                                    |   | • | •••••                                   |                   |
|   |   | 1036          | *                                       | 'ENTRY!                                 |   |                                       |   |   |   |   |   |                   |
|   |   | 1037          |   | ENIKI                                   | NUNE                                    |                                       |   |   |   |   |   |                   |
|   | • | 1039          |   | ĖXIT:                                   | (PSW)                                   | = 'C' SET                             | FLAGGIN                                 | G ERROR                                 |   | • |   |                   |
|   |   | 1040<br>1041  | *                                       | , . ,                                   |   | (A)=                                  | ERROR C                                 | ODE                                     |   |   |   |                   |
|   |   | 1041          |   | USES:                                   | PS₩                                     |                                       |   |   |   |   |   |                   |
|   | • • • • • • • • • • • • • • • • • • •   | 1043          |   |   |   |                                       |   |   |   |   |   | • • • • • • • • • |
|   |   | 1044          |   |   |   |                                       |   |   |   |   |   |                   |
| 002+026<br>002+026 0                    | 76 005                                  | 1045          | LFNSUIT                                 |   |   | 3                                     |   | DEUTCE NOT                              | SHITTARI E ERI                          | OOD CODE                                |   |                   |
| 002.030 0                               | 67                                      | 1047          |   | STC                                     | //. <del>***********</del>              | <del>-</del>                          | • |   | .424.50254.456                          | ROR.CODE                                |   |                   |
| 002.0313                                | 11                                      | .1048         |   | .RET                                    |   |                                       |   |   |   |   |   | • • • • • • • •   |
| * .                                     |   |               |   |   |   |                                       | ,                                       |   |   |   |   |                   |
|   | •                                       | • • • • • • • | .,                                      | • |   |                                       |   |   |   |   |   |                   |
|   |   | .1 X = X .    |   | VETRAES                                 | array was                               |                                       | ****                                    |   |   |   |   |                   |
|   |   | 1050          |   | TRABOKI                                 | - LINE                                  | E PRINTER A                           | ABOK I                                  |   |   |   |   |                   |
|   |   | 1052          | *                                       | ENTRY:                                  | NONE                                    |                                       |   |   |   |   |   | • • • • • • • • • |
| • |   | 1053          | *                                       |   |   | ·                                     |   |   |   |   |   |                   |
|   |   | 1054          |   | EXIT:                                   | (PSW)                                   | = 'C' SET                             | FLAGGIN                                 | G ERROR                                 |   |   |   |                   |
| • | • | 1056          | *                                       |   |   |                                       | HUNAN'H                                 | ONE                                     |   | • | • | • • • • • • • • • |
|   |   | 1057          | *                                       | USES:                                   | PS₩                                     |                                       |   |   |   |   |   |                   |
|   |   | 1058          | *                                       |   |   |                                       |   |   |   |   |   |                   |
| 002.032                                 | • | 1059          | LPABORT                                 | FOU W                                   |   |                                       | • |   | • | •••••                                   |   |                   |
| 002.032 3                               | 15 166 002                              |               |   | CALL L                                  | PCLOSE                                  |                                       |   |   |   |   | .4                                      |                   |
| 002.035 0                               |   | 1062          |   | MVI A                                   | · EC.DDA                                | 4                                     |   | DEVICE DRIV                             | ER ABORT ER                             | OR CODE                                 |   |                   |
| 002.037 0                               |   | 1063          | • | STC                                     |   |                                       |   |   | • |   |   | • • • • • • • • • |
|   |   |               |   |   |   |                                       |   |   |   |   |   |                   |
|   |   |               |   |   |   |                                       | .,                                      |   |   |   |   |                   |
|   | · • • • • • • • • • • • • • • • • • • • | • • • • • • • |   | • |   |                                       |   | • | • |   | • |                   |
|   |   | 1066          |   | LPLOADI                                 | - LOA                                   | AD LP:                                |   |   |   |   |   |                   |
|   |   | 1067          |   | LOLOADE                                 | . ccocc                                 | 00 THE 1 DAT                          |   |   |   |   |   |                   |
|   |   | 1068          | <del>*</del>                            | LrLUAIII                                | PROCES                                  | DO THE LUAL                           | TIFATCE                                 | DRIVER ENTE                             | I. Latili                               | ••••••••••••••••••••••••••••••••••••••• | • |                   |
|   |   | 1070          | *                                       |   |   |                                       |   |   |   |   |   |                   |
|   | • | 1071          |   | ENTRY:                                  | NONE                                    |                                       |   |   |   |   |   |                   |
|   |   | 1072<br>1073  |   | EXIT:                                   |   |                                       |   |   |   |   |   |                   |
|   |   | 1073          |   | EVT I +                                 | KOKE                                    |                                       |   |   |   |   |   |                   |
|   | *************************************** | 1075          | *:                                      | USES                                    | (F)                                     | · · · · · · · · · · · · · · · · · · · |   |   |   |   |   | ••••••            |
|   |   | 1076          | .*                                      |   |   |                                       | ,                                       |   |   |   |   |                   |
| 002.041                                 |   |               | LPLOADD                                 | FOU                                     | *                                       |                                       |   |   |   |   |   |                   |
| 002.0412                                | <u>4</u> ን·····                         | 1079          | TI FOURD                                | ANA                                     | <br>A                                   | CLEAR CA                              | ŔŔŸ                                     |   |   |   |   |                   |
| 002.042 3                               |   | 1080          |   | RET                                     |   |                                       |   |   |   |   |   |                   |
|   |   |               |   |   |   | ,                                     |   |   |   |   |   |                   |
|   | • |               | • |   | • |                                       | • |   |   |   | ·····                                   | • • • • • • • • • |
|   |   |               |   |   |   |                                       |   |   |   |   |   |                   |

| POPENWLINE.PRINTER.OP                   | EN FOR              | .WRITE                                  |                  | HEATH HEASM V1.4 01/20/78 PAGE 25<br>15:48:50 20-0CT-80 |
|---|---------------------|---|------------------|---|
| ······································  | • • • • • • • • • • |   |                  |   |
|   | 1083<br>1084        | ***                                     | LPOPENW          | - LINE PRINTER OPEN FOR WRITE                           |
| *************************************** | 1085                | *                                       | SET UP           | LINE PRINTER FOR OUTPUT                                 |
|   | .1.086<br>1087      | **                                      | ENTRY            | NONE  |
| *************************************** | 10.88               | . <b>*</b>                              |                  |   |
|   |                     | *                                       | EXIT             | (PSW) = 'C' CLEAR => NO ERROR<br>'C' SET => ERROR       |
| •                                       | 1091                | *                                       | •••••            | (A) = ERROR CODE  |
|   |                     | *                                       | USES             | ALL   |
|   | 1094                | . <b>*</b>                              |                  |   |
| 002.043                                 | 1095<br>1096        | LPOPENW                                 | FOII *           |   |
|   | 1097                |   |                  |   |
| 002.043 315 072 003<br>002.046 067      | 1098                |   | STC              | UNITASS ASSUME ERROR                                    |
| 002.047 076 036<br>002.051 300          | 1100                |   | MVI              | A,EC,UNA  |
| 002.031 300                             | 1101<br>1102        |   | RNZ              | ALREADY ASSIGNED  |
|   | 1103                | *                                       | FLAG AS          | SIGNED, INITIALIZE INDICES, AND CTL-S FLAG              |
| 002.052 076 200                         | 1104                | • • • • • • • • • • • • •               | MVİ              | A,1000000B  |
| 002.054 062 034 004                     | 1106                |   | STA              | TLP-AS  |
| 002.057 076 001<br>002.061 062 045 004  | 1107<br>1108        |   | MVI<br>STA       | A,1<br>TLP,LX   |
| ***************                         | 1109                |   | STA              | TLP.CX  |
|   | 1110                |   |                  |   |
| •••••                                   | 1112                | *                                       | INITIAL          | IZE PORT  |
| 002.067 072 036 004                     | 1113                |   | LDA              | TLP.POR   |
| 002.072 052 037 004 002.075 315 302 003 |                     |   | CALD             | TLF.BAU   |
|   | 1117                |   | CALL             | 18250   |
| 002.100 072 036 004<br>002.103 147      |                     |   | LDA              | TLP.POR   |
| 002,104 056 004                         | 1119<br>1120        |   | WON              | H;A<br>L;UR;MCR   |
| 002.106 076 013<br>002.110 315 022 004  | 7121 <sup></sup>    |   | MVI              | A;UC:DTRTUC:RTSTUC:OU2                                  |
|   | 1123                |   | CALL             | OUT SET UP FOR HAND-SHAKE                               |
| *****                                   | 1124<br>1125        | *                                       | INITIAL          | IZE LP:   |
| 002.113 315 130 003                     | 1126                |   | CALL I           |   |
| 002.116 076 015<br>002.120 315 241 002  | 1127                |   | MVI A<br>CALL LI | CR  |
|   | 1129                |   | RET              | WOTON   |
|   |                     | • |                  |   |
|   |                     |   |                  |   |
|   |                     |   |                  |   |
| *************************************** | •••••               | • • • • • • • • • • • • •               |                  |   |
| ****                                    |                     |   |                  |   |
|   |                     |   |                  |   |

| LPWRITE - LINE PRINTER WRIT |   | ••••••                                     | 15;48;52 20-0CT-80                      | *************************************** |
|-----------------------------|---|--|---|---|
|                             | 132 ***                                 | COUNTY I THE BOTHYER WATTE                 |   | •••••                                   |
|                             |   | LPWRITE - LINE PRINTER WRITE               |   |   |
|                             |   | WRITE BYTES TO LP: DEVICE                  |   |   |
|                             | 1135 *<br>[136 *                        |  | • | •••••                                   |
| 1                           | 1137 *                                  | ENTRY: (BC) = BYTE COUNT                   |   |   |
|                             | 138 *<br>139 *                          | (DE) = ADDRESS OF DATA BUFFER              |   | ••••                                    |
|                             |   | EXYT:(PSW) = .YCY.CLEAR => NO ERROR        |   |   |
|                             | .141 *                                  | = 'C' SET => ERROR                         |   |   |
|                             | .142 ¥<br>.143 *                        | (A) = ERROR CODE<br>(BC) = UNUSED BYTE COU | IT                                      |   |
| j                           | 144 *                                   | (DE) = ANDRESS OF NEXT                     | BYTE TO BE WRITTEN                      | •••••                                   |
|                             | .145 *<br>.146 *                        | Hoee+ AV/                                  |   |   |
|                             | .146 *<br>.147 *                        | USES: ALL                                  |   |   |
|                             | 148                                     | mou  | •••••                                   |   |
| 002.124                     | 149 LPWRITE                             | ERU A                                      |   |   |
| 002.124 315 072 003 1       | 151                                     | CALL UNITASS                               |   |   |
|                             |   | STC ASSUME ERROR<br>MVI A,EC.UNA           |   |   |
|                             |   | RZ NOT ASSIGNED                            | • | •••••                                   |
|                             | .155<br>.156``LPW1````                  | MOV AYB                                    | •••••                                   |   |
|                             |   | MUV A,B<br>ORA C                           |   | -                                       |
| 002.135 310 i               | 158                                     | RZ LAST BYTE WRITTE                        | N .                                     |   |
|                             | .159<br>380                             | LDA S.CAADR+1                              | ·····                                   |   |
| 002,141 247 1               | 161                                     | ANA A                                      |   |   |
| 002.142 302 156 002 1       | 162                                     | JNZ LPW5 CTL-Z;-/                          | -B-C HIT                                |   |
| 002,145 032 1               |   | LDAX D<br>CALL LPOUTCA (A) = BYTE TO BE    | WRITTEN                                 |   |
| 002.151 023 1               | 165                                     | INX D INCREMENT ADDRES                     | s                                       |   |
| 002.152 013 133 002 1       |   | DCX B DECREMENT COUNT<br>JMP LPW1          |   |   |
| 1                           | 1.98                                    | ***************************************    | •••••                                   | ••••                                    |
|                             |   | EQU *<br>PUSH H                            | *************************************** | • |
| 002,157 365 1               | 171                                     | rush n<br>Push psw                         |   |   |
| 002,160 315 205 002 1       |   | CALL LPCLOS. OUTPUT (                      | ORM-FEED                                | ••••                                    |
|                             |   | POP PSW<br>POP A                           |   |   |
|                             |   | RET  |   |   |
|                             |   |  |   | ••••                                    |
| ••••                        |   | ,,   |   |   |
| •••••                       |   | ***************************************    |   |   |
|                             |   |  |   |   |
|                             | *****************                       | •••••••••••••••••••••••••••••••••••••••    | • | *************************************** |
| •••••                       |   | •••••                                      |   |   |
|                             |   | ••••                                       |   |   |
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| ·                           |   |  |   |   |

| HDOS LP: DEVICE DRYVER, H<br>LPCLOSE - CLOSE LINE PRIN |   |   |   | HEATH H8ASM V1.4 01/20/78<br>15:48:52 20-0CT-80 | PAGE 27                                 |
|--|---|---|---|---|---|
|  | 1178 **                                 |   | E - CLOSE LIN                           | E PRINTER FOR OUTPUT                            |   |
|  | .1179*.<br>1180 *                       | REMOUE                                  | SELECTED LP:                            | DEVICE FROM TABLE OF CURRENTLY ACTIVE DEVICES.  |   |
|  | .1181*.                                 |   |   | DEVICE INGILIBRE OF CONNENTS POTTAL DEVICEO     |   |
|  | 1182 *                                  | ENTRY                                   | NONE                                    |   |   |
|  | 1184 *                                  | EXIT                                    | (PSW) = 'C'                             | CLEAR => NO ERROR                               | · · · · · · · · · · · · · · · · · · ·   |
|  | .1185*<br>1186 *                        |   |   | SET => ERROR<br>= ERROR CODE                    |   |
|  | .1187 *                                 | USES                                    |   |   |   |
|  | 1188 *<br>1189 *                        | USES                                    | ALL                                     |   |   |
| 002 144  | 1190<br>1191 LF                         | ירו חפב בחוו                            | ······································  |   |   |
| 002.166  | 1192                                    | Crose Egn                               |   |   | •••••••••••••                           |
| 002.166 315 072 003<br>002.171 076 036                 | 1193                                    | CALL                                    | UNITASS<br>A,EC,UNA                     | UNIT NOT AVAILABLE                              | ••••••                                  |
| 002,173 067  | 1195                                    | STC                                     | H7LC+OKH                                |   |   |
| 002.174 316  | 1196<br>1197                            | ŔŻ                                      |   | UNIT NOT ASSIGNED                               |   |
| 002,175 072 034 004                                    | 1198                                    |   | TLP.AS                                  |   |   |
| 002,200 346 177<br>002,202 062 034 004                 | .1199<br>.1200                          |   | #01111111B<br>TLP.AS                    | CLEAR ASSIGNED BIT                              | • |
|  | 1201                                    |   |   |   | ·····                                   |
| 002,205 072 035 004<br>002,210 346 001                 | 1202 LF<br>1203                         | ANI                                     | TLP.FLG<br>F.FORM                       |   |   |
| 002,212 310  | 1204                                    | ŔŻ                                      |   | NO FORM-FEED UPON CLOSE                         |   |
| 002.213 072 036 004                                    | .1205<br>.1206                          | ГДА                                     | TUPT POR                                |   |   |
| 002.216 147<br>002.217 056 005                         | 1207                                    |   | H•A<br>L•UR•LSR                         |   |   |
|  | 1209                                    |   |   |   |   |
| 002,221 315 012 004<br>002,224 346 040                 | 1210 LF<br>1211                         | 'C'I C'ALL<br>ANI                       | UC.THE                                  |   |   |
| 005.559315.551.005                                     | .1212                                   | JZ                                      | LFC1                                    | NOT READY FOR TRANSMIT                          |   |
| 0027.231028000   | 1213<br>1214                            | rvm                                     | ···CyURSTHR                             |   |   |
| 002.233 076 014<br>002.235 315 022 004                 | 1215                                    | MVI<br>CALL                             | A,FF                                    | OUTPUT FORM-FEED                                |   |
| 002,235 315 022 004                                    | 1216                                    | CHLL                                    | UUT                                     | OUTPUT FURM-FEED                                |   |
| 002,240 311  | .1518                                   | RET                                     |   |   | •••••                                   |
|  | • |   | •••••                                   |   |   |
|  |   |   |   |   |   |
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|  | • | • | • |   | •••••                                   |
|  |   |   |   |   | *************************************** |
|  |   |   |   |   |   |

| SUBF                                    | S LP: DEC<br>ROUTINES                  |                         |                 |               |              |   |  |   |   | 15:4                                    | H8ASM V1.4 01/20/78<br>3:53 20-0CT-80   | PAGE                                    | 28                                      |
|---|--|-------------------------|-----------------|---------------|--------------|---|--|---|---|---|---|---|---|
|   | •••••                                  | · · · · · · · · · · · · |                 | • • • • • •   | 1555         | ***                                     | · i ëniit                              | CH - I THE                              | FRINTER OUTPUT CHAP                     | SAPTER                                  |   | • | .,,                                     |
|   |  |                         |                 |               | 1223         |   | L1 001                                 | CH - LIKE                               | PRINTER DUTPUT CHAP                     | TACIEN                                  |   |   |   |
|   |  |                         |                 |               | 1224         | *                                       | The s                                  | recial ch                               | aracters processed a                    | <br>sre:                                | •   | • | • |
| ·                                       |  |                         |                 |               | 1225         | <b> *</b>                               |  |   | •                                       |   |   |   |   |
|   |  |                         |                 |               | 1226         |   |  |   | NULL                                    |   | ***************************************   |   |   |
| • • • • • • • • • • •                   |  | • • • • • • • •         | • • • • • • •   | • • • • • •   | 1227         | 🛣                                       | • • • • • • • • •                      |   | TAB                                     |   |   | ••••••                                  |   |
|   |  |                         |                 |               | 1229         | *                                       | ENTRY                                  | 'i (A)                                  | BYTE TO BE WRITTEN                      | .i                                      |   |   |   |
|   |  |                         | •••••           | • • • • • • • | 1230         | ····*                                   | :::::                                  | (HL)                                    | UNIT NUMBER OF OUT                      | TPUT NEVICE                             | •   | • | • • • • • • • • • • • • •               |
|   |  |                         |                 |               | 1231         | . <b></b>                               |  |   |   |   |   |   |   |
|   |  |                         |                 |               | 1232         |   | EXIT:                                  | Column                                  | Index urdated                           |   | *******************************   | • |   |
| • | .,                                     |                         | • • • • • • •   | • • • • • •   | 1233         |   |  |   |   |   | •   | • | ·                                       |
|   |  |                         |                 |               | 1234         |   | USES:                                  |   |   |   |   |   |   |
|   | ••••••                                 | • • • • • •             | • • • • • • • • | • • • • • •   | 1236         |   |  | • | • | ·····                                   | •   |   | • |
|   | 002.241                                |                         |                 | :<br>         | 1237         | LPOUTCH                                 | EQU                                    | *                                       |   |   |   |   |   |
|   | 002.241                                | 345                     |                 |               | 1238         |   | PUSH                                   | Н                                       |   | •••••                                   | ••••••••••••  |   |   |
| • |  | ••••                    |                 | ,             | 1239         |   |  |   |   | •••••                                   |   |   |   |
|   | 002,242                                | 774                     | 014             |               | 1240         |   | COT                                    |   |   |   |   |   |   |
|   | 002.244                                | 302                     | 265 i           | 002           | 447A<br>1242 | ••••                                    | ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・ | t.t<br>LPOT1                            | • |   |   |   |   |
|   | 002.247                                | .315                    | 234             |               | 1243         |   |  |   |   | 1F N                                    | OT FORM FEED  |   |   |
|   | 002.252                                |                         |                 |               | 1244         |   | 114 T                                  | 77 T L                                  |   |   |   |   |   |
|   | 002,254.                               | . 062                   | .045            | 0.0.4         |              |   | .STA                                   | .TLP.LX                                 |   | UNIT.                                   | LINE INDEX = 1  |   |   |
|   | 002.257                                | 062                     | 046             | 004           | 1246         |   | UIN                                    | ILI +UX                                 |   | TINU                                    | COLUMN INDEX = 1  | · · · · · · · · · · · · · · · · · · ·   | • • • • • • • • • • • • •               |
| • | 002.262                                |                         |                 |               | 1247<br>1248 |   | MF                                     | .LP079                                  |   |   |   |   |   |
|   |  |                         |                 |               | 1249         |   |  |   |   |   |   |   |   |
|   |  | • • • • • • •           |                 |               | 1250         |   | CHECK                                  | FOR LINE                                | OVER-FLOW                               | • | •   | • |   |
|   |  |                         |                 |               | 1251         |   |  |   |   |   |   |   |   |
|   | 002.265                                |                         |                 |               | 1252         |   | PUSH                                   |   |   |   |   | • | • • • • • • • • • • • •                 |
| • | 002,266<br>002,267                     |                         | 044             |               | 1253         |   |  | .PSW                                    |   |   | •   |   |   |
|   | 002.272                                |                         |                 |               | 1255         |   |  | TLP.LC                                  |   |   |   |   |   |
|   | 002,273                                | 312                     | 312 (           | 002           | 1256         |   | JZ                                     | LPOT2                                   | • | I THES                                  | /PAGE = 0   |   |   |
|   | 992,276                                | .041                    | 0.45            | 004           | 1257         |   |  | H.TLP.LX                                |   |   | // NOE - V  |   |   |
|   | 002,301                                |                         |                 |               | 1258         |   | CMP                                    | M                                       |   |   |   |   |   |
|   | 002.302                                |                         | 312.            |               |              |   | . วี่ผู้⊊ี                             | .LPQT2                                  | • | TLP.+L                                  | C.>=.TLP.LX   |   |   |
|   | 002.303                                | 315                     | 014<br>241 (    | 002           | 1260<br>1261 |   | MVI                                    | A,FF<br>LPOUTCH                         |   |   |   |   |   |
|   | 002.312                                |                         |                 |               |              | LPOT2                                   | POP                                    | .Eruvien<br>PSW                         |   | • | ••••••  |   |   |
|   | 002.313                                |                         |                 |               | 1263         |   | POP                                    | Н                                       |   |   |   |   |   |
|   |  |                         |                 |               | 1264         |   |  | • • • • • • • • • • • • • • • •         | •••••••                                 |   | ••••  | •••••                                   | • |
|   | 002.314                                |                         |                 |               | 1265         |   | CPI                                    | TAB                                     | · · · · · · · · · · · · · · · · · · ·   |   |   |   |   |
|   | 002.316<br>002.321                     |                         |                 |               |              |   |  | LPOT5                                   |   | IF N                                    | OT TAB  |   |   |
|   | 002.321                                |                         |                 |               | 1267<br>1268 | • | MVI                                    | LPOUTCH                                 |   | IF <u>.P</u> R                          | ESENTLY AT TAB STOP FOR   | 准                                       |   |
|   | 002,326                                |                         |                 |               |              | LPOT3                                   |  | TLP.CX                                  |   | 10                                      | THE NEXT ONE  |   |   |
|   | 002.331                                | 075                     |                 |               | 1270         |   | DCR                                    | A                                       | *************************************** | • | •••••   |   | • • • • • • • • • • • • •               |
|   | 002.332.                               | 346.                    | .007            |               | 1.27.1       |   | ANI                                    | .7                                      |   | CHECK                                   | FOR MULTIPLE OF 8   |   |   |
| 4                                       | 002.334                                | 312                     | 070 0           | 003           | 1272         |   | JZ                                     | LPOT9                                   |   |   | or and over the second of the |   |   |
|   | 002.337<br>002.341                     |                         |                 |               | 1273         |   |  | A, '. '                                 |   |   | ***************************************   | *******                                 |   |
|   | 002.341                                |                         |                 |               | 1274         |   |  | LPOUTCH                                 |   |   |   |   |   |
|   | ************************************** |                         | . M. H Y        |               | 1276         | • | AUG                                    | LP.0T.3                                 | • |   | •   | ••••••                                  |   |
|   |  |                         | 015             |               |              | LPOT5                                   |  |   |   |   |   |   |   |

|   | s'lp: de<br>Routines  |             |               |               |              |   |               |   | LPOUTCH.                                | HEATH H8ASM V1.4 01/20/78<br>.15:48:54 20-007-80 | PAGE                                    | 29                                      |
|---|-----------------------|-------------|---------------|---------------|--------------|---|---------------|---|---|--|---|---|
| • | 002.351               | 302         | 367           | 002           | 1278         |   | <br>IN 7      | LPOT6                                   | •••••                                   | NOT CARRIAGE RETURN                              |   |   |
|   | 002.354               |             |               |               |              |   |               |   |   | NOT CHRRINGE RETORN                              |   |   |
| •••••••                                 | 002.357               |             |               |               | 1280         | •••••••                                 | MVI           | A-1                                     |   |  |   |   |
| • • • • • • • • • • • • •               | .002.361              | 962         | . 046.        | .994          | .1281.       |   | STA           | TLPCX                                   | · · · · · · · · · · · · · · · · · · ·   | COLUMN INDEX = 1                                 | • |   |
|   | 002.364               | 303         | 070           | 003           | 1282         |   | JMF           | LPOT9                                   |   |  |   |   |
| • • • • • • • • • • • • • •             | 002.367               | 376         | ··012         | • • • • • • • | 1284         | LFOT6                                   | ĊĖI           | ····NL                                  |   | •••••  | • |   |
|   | 002.371               | 302         | 020           |               | 1285         |   | JNZ           | LPOT7                                   |   |  |   |   |
|   | 002.374               |             |               |               | 1286         |   | MVI           | A,CR                                    |   |  |   |   |
|   | 002,376<br>003,001    |             |               | .002          | 1287         |   | CALL          | LPOUTCH<br>A,LF+200Q                    | AUGTE TUE TS                            | THE TAILTEE COMMISSION OF                        |   |   |
|   | 003.001               |             |               | 002           |              |   | CALL          | LPOUTCH                                 | WAGID THE IV                            | NFINITE RECURSE                                  |   |   |
| • | .903.009.             | 072         | 045           | 004           | 1290         |   | LDA           | TLP+LX                                  |   | •••••••••••••••••••••••••••••••••••••••          | * |   |
|   | 003.011               |             |               |               | 1291         |   | INR           | A                                       |   | UPDATE LINE INDEX                                |   |   |
|   | 003.012               |             | 045           |               | 1292         |   | STA<br>JMF    | TLF.LX<br>LPOT9                         |   |  |   | *                                       |
|   |                       |             | Y./ Y         | . Y.Y.Y       | 1294         | •••••                                   | Jiir          | LFUIT                                   | • | •••••••••••••••••••••••••••••••••••••••          |   |   |
|   | 003.020               |             |               |               | 1295         | LPOT7                                   | CPI           | 1.7                                     |   |  |   |   |
| ,                                       | .003.025              |             |               | .003          |              |   | ÚĊ            | LPOTE                                   | *************************************** | (A) < ' ' => NON-PRINT                           | ••••••                                  |   |
| • | 003.025<br>003.027    |             |               | . ბდვ:        | 1297         |   | CPI<br>"JNC"  |   |   | (A) >= RUBOUT => NON-PRINT                       |   |   |
|   |                       |             |               |               | 1299         |   | ONO           | L/ 010                                  |   | (H) >= KOBOOT => NON-PRINT                       |   |   |
| •••••                                   | .003.035.             |             |               |               | 1300.        |   | FUSH          | rsw                                     | ,                                       |  | •••••                                   | • |
|   | .003.033<br>.003.034  |             |               |               | 1301         |   | PUSH          | Н                                       |   |  |   |   |
|   | 003.037               |             |               | 004           | 1302         |   | LDA           | TLF:WID                                 |   |  |   |   |
| • • • • • • • • • • • •                 | 003.040               | 312         | 054           | 003           | 1304         | • | Jż            |   | • | DON'T DO ANY WRAF                                | • | • |
|   |                       |             |               |               | 1305         |   |               |   |   |  |   |   |
|   | 003.043               |             |               | 004           | 1306         |   | LXI           | H;TLF.CX                                |   |  |   |   |
|   | 003.047               |             |               |               | 1308         |   | MVI           | A; NL                                   | • | •  |   |   |
|   | 003.051               | 334         | 241           |               |              |   | CC            | LFOUTCH                                 |   | OUPUT IF WIDTH < INDEX                           |   |   |
|   | 007.054               | 072         | ΔΛ.           |               | 1310         | LPOT7.5                                 |               | TI P. M.                                | *************************************** | •  | •••••                                   | •••••                                   |
| • • • • • • • • • • • • •               | .003:024              | 074         | .,            |               | 1312         | TLO1/13                                 | INK           | TLP+CX                                  |   |  |   |   |
|   | 003.060               | 062         | 046           |               | 1313         |   | STA           | TLF.CX                                  |   | INCREMENT LINE COUNTER                           |   |   |
|   | .003:083.             |             |               |               | 1314         |   | POP           | H                                       | *************************************** |  | ••••                                    | •••••                                   |
| • | 003.064               |             |               |               | 1315<br>1316 | .,                                      | POP           | PSW                                     |   |  |   |   |
|   | 003.065               | 315         | 234           |               |              | LPOT8                                   | CALL          | OUTCHAR                                 |   | OUTPUT THE CHARACTER                             |   |   |
| ••••••                                  |                       |             | • • • • • •   |               | 1318         |   | • • • • • • • | ••••••••                                |   | ••••••   | ••••                                    | • |
|   | 003.070<br>'Y703:000' |             |               |               | 1319         |   | POP<br>RET    |   |   |  |   |   |
|   | 0001071               | 011         |               |               | 1320         |   | KE I          |   |   |  |   |   |
|   |                       | • • • • • • | • • • • • •   | • • • • • • • |              |   | •••••         |   | • | ······································           | ••••                                    |   |
|   |                       |             |               |               |              |   |               |   |   | ••••••   |   |   |
|   |                       |             |               |               |              | 2                                       |               |   |   |  |   |   |
| • |                       |             | • • • • • • • |               |              | • | •••••         | • |   | ••••••   | • |   |
|   |                       |             |               |               |              |   |               |   | · .                                     |  | *****                                   |   |
|   |                       |             |               |               |              |   |               |   |   |  |   |   |
| •••••                                   |                       | • • • • • • | • • • • • • • |               | •••••        | • | •••••         |   |   |  | •••••                                   | •••••                                   |
|   |                       |             |               |               |              |   |               | • | **********                              | ····   |   |   |
|   |                       |             |               |               |              |   |               |   |   |  |   |   |

| HDOS LF: DEVICE DRIVER, H<br>SUBROUTINES | i∸24``(1                                | (1 810)                                 | • |   | HEATH H8ASM V1.4 01/20/78 PAGE 30<br>UNITASS 15:48:55 20-001-80 |
|--|---|---|---|---|---|
|  |   |   |   |   |   |
|  | 1323<br>1324                            | **                                      | ÚNITA                                   | SS - UNIT A                             | SSIGNED   |
|  | 1325<br>1326                            | ··*·····                                | CHÉCK                                   | TEN DEVICE                              | TABLE TO SEE IF SPECIFIED UNIT IS ASSIGNED.                     |
| •••••                                    | 1327                                    | *                                       | ENTRY                                   | (HL) =                                  | UNIT NUMBER   |
| •••••••••••••••••••••••••••••••••••••••  | 1328<br>1329                            | *<br>*                                  | EXII.                                   |   | ''Z'''SET'''''=>'UNIT'FREE''''                                  |
|  | 1330                                    |   | L./\11                                  |   | /Z/ CLEAR => UNIT ASSIGNED                                      |
| ***************************************  | 1331                                    | *                                       |   |   |   |
|  | 1332                                    |   | USES                                    | (PSW)                                   |   |
|  | 1333<br>1334                            | *                                       |   |   |   |
| 0031072                                  | 1335                                    | <br>UNITASS                             | EØD                                     | ··*·····                                |   |
| ***************************************  | 1336                                    | • • • • • • • • • • • •                 |   |   |   |
| 003.072 072 034 004<br>003.075 346 200   | 1337<br>1338                            |   | LDA                                     | TLF.AS                                  |   |
| ***************************************  | .1339.                                  | • | ANI                                     | 10000000B                               | [7] = 1 => ASSIGNED   |
| 003.077 311                              | 1340                                    |   | RET                                     |   |   |
|  |   |   |   |   |   |
| ***************************************  | • |   |   |   |   |
|  |   |   |   |   |   |
|  | 1342                                    |   | WAIT.                                   | - WAIT FOR                              | H14   |
| ••••••                                   | 1343                                    |   | יעבדדיי                                 | ነንልተ ነገ፣ ተነነድህ ነው                       | E READY FOR OUTPUT  |
| ***************************************  | 1345                                    | *                                       | WITE                                    | ORTIC DEVIC                             | E KENDI FOR GOIFO!  |
|  | 1346                                    |   | ĖŇŤŔŸ                                   | NONE                                    |   |
| ***************************************  | 1347                                    |   | EXIT.                                   | NONE                                    |   |
| •  | 1349                                    |   | EVII                                    | KOKE.                                   |   |
|  | 1350                                    |   | .ase.                                   | (FSW)                                   |   |
|  | 1351                                    | . <b>*</b>                              |   |   |   |
| 003.100                                  | 1353                                    | WAIT                                    | EQU                                     | *                                       |   |
| 003.100 345                              | 1354                                    | • | 'PUSH'                                  |   |   |
| 003.101 072 334 040                      | 1355                                    | 071WW                                   |   | 'SVCWADRT1'                             |   |
| 003.104 247                              | 1 757                                   | WHIIO                                   | ANA                                     | A CHAUKTI                               |   |
| 003.105 302 126 003                      | 1358                                    | ,                                       | JNZ                                     | WAIT3                                   | IF CTL-Z,-A,-B,-C HIT   |
| 003.110 072 036 004                      | 1359                                    |   | LDA                                     | ***********                             |   |
| 003.113 147                              | 1360                                    |   | MOV                                     | TLP FOR HA                              |   |
| 003.114 056 006                          | 1362                                    |   | .WAI                                    | ····เรียกเพรห                           |   |
| 003.116 315 012 004<br>003.121 346 020   | 1363<br>1364                            |   | CALL                                    | IN                                      |   |
|  | 1364                                    |   | ZNL                                     | WATTO                                   | TABLECTED CTCMALLL  |
|  | .1392                                   | • |   | WAITO                                   | INVERTED SIGNAL!!!  |
| 003,126 341                              | 1367                                    | WAIT3                                   | POP                                     | Н                                       |   |
| 003.127 311                              | 1398                                    |   | 'RET'''                                 |   |   |
| ***************************************  |   | • | • • • • • • • • •                       | • |   |
| Y*************************************   |   |   |   |   |   |
|  |   |   |   |   |   |
| · · · · · · · · · · · · · · · · · · ·    | • |   |   | • |   |
| ***************************************  |   |   |   |   |   |
|  |   |   |   |   |   |
| ***************************************  | • • • • • • • • •                       |   |   | • |   |
|  |   |   |   |   |   |

| HDOS LP: DEVICE DRIVER, H<br>SUBROUTINES |                     |  |   |                                  | INITLP                                  |   | HEATH H8AS                              |   |   | PAGE                                    | 31                                      |
|--|---------------------|--|---|----------------------------------|---|---|---|---|---|---|---|
|  | 1371                | · · · · · · · · · · · · · · · · · · ·    | TNITIO                                  | - INITIALIZE LF                  | •                                       | • |   |   |   |   |   |
|  | 1372                |  |   |                                  |   |   |   |   |   |   |   |
|  | 1373                | *  | INITIAL                                 | IZE DEVICE LP:                   | BY:                                     | • |   |   |   |   |   |
|  | 1.37.4              | . <u>*</u>                               |   |                                  |   |   |   |   |   |   |   |
|  | 1375<br>1376        | *  |   | SETTING LINES/<br>SETTING FORM L |   |   |   |   |   |   |   |
| ••••••                                   | 1377                | · ?; · · · · · · · · · · · · · · · · · · |   | ,847.(A)8.(.4W). A               | M3M110                                  | • |   |   |   | • |   |
|  | 1378                | <b>.</b> *                               |   |                                  |   |   |   |   |   |   |   |
|  | 1379<br>1380        | *  | ENTRY                                   | NONE                             |   |   |   |   |   |   |   |
|  | 1381                |  | ENTRY                                   | . RORE                           | • | • • • • • • • • • • • • • •             | • |   | • |   |   |
|  | . 1382              |  | EXIT                                    | NONE                             |   |   |   |   |   |   |   |
|  | 1383                | *  |   |                                  |   |   |   |   |   | • • • • • • • • • • • • • • •           |   |
|  | 1384<br>1385        | . <u>*</u>                               | USES                                    | (PSW),(HL)                       | • |   |   |   |   |   |   |
|  | 1386                | •  |   |                                  |   |   |   |   |   |   |   |
| 003.130                                  | 1387                | INITLE                                   | EQU *                                   |                                  |   |   | • |   | • | • | •••••                                   |
|  | 1388                |  |   |                                  |   |   |   |   |   |   |   |
|  | 1389<br>1390        | *  | SET UP                                  | LINES/INCH                       |   |   |   |   |   |   |   |
| 003.130 072 041 004                      | 1391                |  | LDA                                     | TLP.LPI                          | • | •••••                                   | •••••                                   | • | • | • | • |
| 003.133 376 006                          | 1392                |  | CPI                                     | 6                                |   |   |   |   |   |   |   |
| 003.135 076 064                          | 1393                |  | MVI                                     | A, '4'                           | 6 LINES                                 | /INCH                                   |   |   |   |   |   |
| 003.137 312 144 003                      | 1394<br>1395        |  | JZ                                      | LPIO                             | • |   |   |   |   |   |   |
| 003,142 076 065                          | 1376                |  | MVI                                     | A+/5/                            | 8 LINES                                 | /INCH                                   |   |   |   |   |   |
|  | 1397                |  |   |                                  |   |   |   |   | • |   | ***************                         |
| 003.144 062 174 003                      |                     | LPIO                                     | STA                                     | INIA+1                           | SET UP                                  | LINES/INC                               | H ESCAPE SE                             | QUENCE                                  |   |   |   |
|  | 1399                | *  | SET HE                                  | FORM LENGTH                      |   |   |   |   |   |   |   |
| •  | 1401                |  | . 7.7 / 7/                              |                                  | •••••                                   |   | • |   | • | • | ••••••                                  |
|  | 1402                |  | LDA<br>STA                              | TLP.LEN                          |   |   |   |   |   |   |   |
| 003.152 062 177 003                      | 1403<br>1404        |  | STA                                     | INIB+2                           |   |   |   | •                                       |   |   |   |
| •••••••                                  | 1405                | · * · · · · · · · · · · · · · ·          | ነስነነትምበት '                              | THE STRING                       | • | • | • |   |   | · · · · · · · · · · · · · · · · · · ·   |   |
|  | 1406                |  |   |                                  |   |   |   |   |   |   |   |
| 003.155 041 173 003                      |                     |  | ĽXI                                     | HINIA                            | ,                                       | • | • |   | • | • • • • • • • • • • • • • • • •         |   |
| 003.160 176<br>003.161 376 377           | 1408<br>1409        | INI1                                     | MOV<br>CPI                              | . A • M<br>. 3770                |   |   |   |   |   |   |   |
| 003.161 378 377                          | 1410                |  | RZ                                      | 3//4                             |   | TO THE E                                | ND OF THE S                             | FOUENCE                                 |   |   |   |
|  | 1411                |  | CALL                                    | OUTCHAR                          | • |   |   | ······································  | ••••••                                  | • | •••••                                   |
| 003.167 043                              | 1412                |  | INX                                     | H                                |   |   |   |   |   |   |   |
| 003.170 303 160 003                      | 1413<br>1414        |  | JMP.                                    | INII                             |   |   |   |   |   |   |   |
| 003.173 033 000                          | 1415                | TNTA                                     | DB                                      | ESC.0                            | •••••                                   | TLYNESZIN                               | ICH TESET TOP                           | BY ****                                 | ,                                       | • |   |
| 003.175 033 062 000                      | 1416                | INIB                                     | DB                                      | ESC, '2', 0, CR                  |   | FORM LEN                                |   | 2                                       |   |   |   |
| 003.201 377                              | 1417                |  | DB                                      | 3770                             |   | • | •••••                                   |   |   |   | • |
|  |                     |  |   |                                  |   |   |   |   |   |   |   |
|  |                     |  |   |                                  |   |   |   |   |   |   |   |
|  |                     |  | • |                                  | • |   | ••••••                                  | • | • | • |   |
|  |                     |  |   |                                  |   |   |   |   |   |   |   |
|  |                     |  |   |                                  | ,                                       | · · · · · · · · · · · · · · · · · · ·   |   |   |   |   |   |
|  |                     | • • • • • • • • • • • •                  | • |                                  |   |   |   |   |   |   |   |
|  |                     |  |   |                                  |   |   |   |   |   |   |   |
|  | • • • • • • • • • • |  | • • • • • • • • • • •                   |                                  |   | · · · · · · · · · · · · · · · · · · ·   | • • • • • • • • • • • • • • • • •       |   |   |   |   |
|  |                     |  |   |                                  |   |   |   |   |   |   |   |

| HDOS LP: DEVICE DRIVER, H<br>COMMON DECKS INVOKED | -24 (TI 810)                            |   | HEATH HRASM U1.4 01/20/78 PAGE 32                 |
|---|---|---|---|
| 003.202   | 1420                                    | XTEXT DVDIO                             |   |
|   |   |   | ······································            |
|   | 1422X **<br>1423X *                     | INCHAR - INPUT CHA                      | RACTER  |
|   | 1424X *<br>1425X *                      | INPUT CHARACTER FR                      | OM SPECIFIED DEVICE                               |
|   | 1426X *<br>1426X *                      | ENTRY NONE                              |   |
|   | .1428X *<br>1429X *                     | EXIT(PSW) = (Z                          | 1. CLEAR IF THERE IS A CHARACTER                  |
| •••••   | 1430X *                                 | \ H                                     | ) = CHARACTER<br>1.SETIF.THERE.IS.NOT.A.CHARACTER |
|   | 1431X *<br>1432X *                      | USES (PSW)                              |   |
|   | 1433X *<br>1434X                        |   |   |
| 003.202<br>003.202 345                            | 1435X INCHAR<br>1436X                   |   | ······································            |
| 003.203 072 036 004                               | 1437X                                   | PUSH H<br>LDA D.PORT                    |   |
| 003,206 147                                       | 1438X<br>1439X                          | MOV HA                                  |   |
| ••••••  | 1440X *<br>1441X                        | CHECK FOR DATA                          |   |
| 000.000   | 1442X<br>1443X                          | IF H8410                                |   |
| 003,207 056 005<br>003,211 315 012 004            | 1444X                                   | MVI L,UR,LSR<br>CALL IN                 |   |
|   | 1446X                                   | ANI UC.DR                               |   |
| 003,221 056 000                                   | 1448X                                   | JZ INC1<br>MVI L.UR.RBR                 | NO DATA   |
| 003.223 315 012 004<br>003.226 303 232 003        |   | CALL IN<br>JMP INC2                     |   |
|   | 1451X<br>1452X                          | ELSE                                    |   |
|   | 1453X<br>1454X                          | MVI L.USR                               |   |
|   | 1455X<br>1456X                          | CALL IN                                 | /7/ PP TP TIPE TP TIPE                            |
|   | 1457X                                   | JZ INC1                                 |   |
| •••••••••••••••••••••••••••••••••••••••           | 1458X<br>1459X                          | MVI L,UDR<br>CALL IN                    |   |
| ••••  | 1460X<br>1461X                          | ANA A<br>JMP INC2                       | IGNORE NULL CHARACTERS                            |
| .,  | 1462X<br>1463X                          | ENDIF                                   |   |
| 003.231 067                                       | 1464X<br>1465X INC1                     | STC                                     |   |
|   | 1466X                                   |   |   |
| 003.232 341<br>003.233 311                        | 1467X INC2<br>1468X                     | POP H<br>RET                            |   |
| ***************************************           | • |   |   |
| •••••   |   |   |   |
|   |   |   | ······································            |
|   | ****************                        | • |   |

|   | -24"(TI"810")""        | ••••••                                  | HEATH HEASH V1.4 01/20/78               | FAGE33                                  |
|---|------------------------|---|---|---|
| COMMON. DECKS, INVOKED                  |                        | OUTCHA                                  | AR 15:48:57 20-0CT-80                   | 11102 00                                |
|   | •••••                  | ••••••••••••••••••••••••••••••••••••••• | **************************************  | ·····                                   |
| •                                       |                        | ADVANTA ANTANA                          | •••••                                   | *****                                   |
|   | 1470X **<br>.1471X *   | OUTCHAR - OUTPUT CHARACTER              |   |   |
| *************************************** | 1472X *                | OUTPUT CHARACTER TO SPECIFIED           | TIFUTOF                                 | •••••                                   |
|   | 1.473X*                | OUT OF ORMANDICK TO DECEMBE             | A* In V A 6/ In                         |   |
|   | 1474X *                | ENTRY (A) = CHARACTER                   | *************************************** | · · · · · · · · · · · · · · · · · · ·   |
| •••••                                   | .1475X.*<br>.1476X.*   | EXIT NONE                               |   | **** ********************************** |
|   | 1477X *                | EXT. IADIAE                             |   |   |
| *************************************** | 1478X *                | USES (PSW)                              | *************************************** |   |
| •••••                                   | 1479X *                |   |   |   |
| 007.074                                 | 1480X                  |   |   |   |
| 003.234                                 | 1481X OUTCHAR<br>1482X | EQU *<br>PUSH H                         |   | . • • • • • • • • • • • • • • • • • •   |
| 0001204 040                             | 1483X                  | ruan n                                  |   |   |
| 003.235 365                             | 1484X                  | PÚSH PSW                                | *************************************** | •••••                                   |
| 003.236 072 036 004<br>003.241 147      | 1485X                  | LDA D.FORT                              |   |   |
| 003.241 147                             | 1486X                  | MOV H,A                                 |   |   |
|   | 1487X<br>1486X         | IF H8410                                |   | •••••                                   |
|   | 1489X                  | 11 110410                               |   |   |
| 003.242 058 005                         | .1440X                 | MOY LIURILER                            | •••••                                   | • |
| 003,244 315 100 003                     |                        | CALL WAIT                               | WAIT FOR THE HAND-SHAKE!/79.11.GC/      |   |
|   | 1492X OUTCO            | LDA S.CAADR+1                           |   | *************************************** |
| 003,252 247<br>003,253 302 277 003      | 1493X<br>1493X         | ANA A                                   | **************************************  | •••                                     |
| 003.256 315 012 004                     |                        | CALL IN                                 | IF CTL-Z,-A,-B,-C HIT                   |   |
| 003.261 346 040                         | 1496X                  | ANT UC.THE                              | *************************************** | •••••                                   |
| 003.263 312 247 003                     |                        | JZ OUTCO                                | IF NOT READY FOR TRANSMIT               |   |
| 003.267 056 000                         | 1498X<br>1499X         | FOF FSW<br>MVI L,UR,THR                 |   |   |
| 003.207 038 000                         |                        | MVI L.UR.THR<br>CALL OUT                |   | ••••                                    |
| 003.274 303 300 003                     | 1501X                  | JMP OUTC2                               |   |   |
| *************************************** | .1205X                 | *************************************** | *************************************** | ••••••                                  |
| *************************************** | 1503X                  | ELSE                                    |   |   |
|   | 1504X                  | MVI L.USR                               |   |   |
| *************************************** | 1506X                  | CALL WAIT                               | WAIT FOR THE HAND-SHAKE 779.11,607      | ••••                                    |
|   | 1507X OUTCO            | LDA S.CAADR+1                           | WILL FOR THE PHILE OTHER 7774113007     |   |
|   | 1208X                  | ANA A                                   |   | ••••                                    |
| ••••••                                  | 1509X<br>1510X         | JNZ OUTC1<br>CACL IN                    | IF CTL-Z,-A,-B,-C HIT                   | **** ********************************** |
|   | 1511X                  | ANI USR,TXR                             |   |   |
|   | .1512X                 | JZ OUTCO                                | "IF" NOT READY FOR TRANSMIT             | ••••••                                  |
| *************************************** | 1513X                  | POP PSW                                 |   |   |
|   | 1514X<br>1515X         | WI CYCOR                                | *************************************** | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
|   | .1212X                 | CALL OUT<br>OME OUTC2                   | ·                                       | •••••                                   |
|   | 1517X                  | 311 00102                               |   |   |
| *************************************** | .1218X                 | ENDIF                                   | •••••                                   | ••••••                                  |
| · · · · · · · · · · · · · · · · · · ·   | 1519X                  | BOARS TO BOARS                          |   |   |
| 003,277 361                             | 1520X 007C1<br>1521X   | FOF                                     |   |   |
| 003,300 341                             | .1522X OUTC2           | POP H                                   |   |   |
| 003.301 311                             | 1523X                  |   |   |   |
| 600.000                                 | 1524X                  | RET<br>IF H84IO                         | *************************************** | •                                       |
|   |                        | ·                                       |   |   |
|   |                        |   |   |   |
|   |                        |   |   |   |

| HDOS LP: DEVICE DRIVER, H<br>COMMON DECKS INVOKED  |                      |               |   | 18250                                   | 15:48:57 20-0                           | 1,4 01/20/78<br>DCT-80                  | PAGE 34                                 |
|--|----------------------|---------------|---|---|---|---|---|
|  |                      |               |   |   |   |   |   |
|  | 1526X **             | 1825          | 0 - INITIALIZE E                        | 250                                     |   | • | ••••                                    |
|  | 1527X * 1528X *      | ··· +N++      | የፈጠንም ፕሬክጠ6ማቂክ ነው                       | ORT∵ STOLEN AS CA                       | 6116HAWIBAWAETTA                        | H141744;                                | *********                               |
|  | 1529X *              |               |   |   | r rkon const. D                         | KIAFK.                                  |   |
| ••••••   | . 1230X. *           | ENTR          | Y(A)                                    | ≅ ```PORT `ADDRESS ```                  |   | •••••••••••                             | • |
| ***************************************  | 1531X *              |               |   | = NEW BAUD RATE                         |   |   |   |
|  | 1532X *              |               | (HL)L151                                | '≐'''ĭ'IF'TWO'STOP'B                    | 118                                     |   | *** *********************************** |
| •  | . 1534X .* · · · · · | EXIT.         | NUNE                                    |   |   |   | • |
|  | 1535X *              |               |   |   |   |   |   |
|  | .1239X.*             | ····USES      | (A)                                     |   |   |   | •••••                                   |
|  | .1537X *             |               |   |   |   |   |   |
| 003.302  | 1538X<br>1539X 18250 | EOH           | ·                                       |   |   |   |   |
| 003,302 325  | 1540X                | EQU<br>PUSH   | <u>†.</u>                               | • |   |   |   |
|  | 1541X                |               |   |   |   |   |   |
| 003;303353   | 1542X                | XCHG.         |   | *************************               | • | •••••••                                 | ••• • • • • • • • • • • • • • • • • • • |
| 003.304 147<br>003.305 056 001   | .1543X<br>.1544X     | MOV<br>NV1    | H+A                                     | •••••                                   |   |   |   |
| 003,307 257  | 1545X                | XRA           |   |   |   |   | *************************************** |
| 003,310 315 022 004  | 1546X                | ···CALL       | ····öʊ᠇······                           |   | • | /79+02+607<br>/56:75:567                |   |
| 003.313 056 004  | 1547X                | MVI           | L,UR.MCR                                |   |   | /79.01.60/                              |   |
|  | 1548X                | WOI           |   |   |   | /79.01.6C/                              | • |
| 003,317 315 022 004<br>003,322 056 003   | 1549X<br>1550X       | MVI           | OUT<br>TEYOR: LCR                       | SET LOOP-BACK                           |   | /79.01.GC/                              |   |
| 003.324 076 200  | 1551X                | MVI           | A,UC.DLA                                |   |   |   |   |
| 703.328 315 022 004  | 1552X                |               |   | •••••                                   | • |   |   |
| 003,331 056 000  | 1553X                | MVI           | L,UR.DLL                                |   |   |   |   |
| 003.333 173  | 1554X                | MOV           | A,E                                     |   | ********************                    |   | • |
| 003.334 315 022 004  | 1556X                | CALL<br>MVI   | OUT<br>CLYOR: DEM                       |   | ,                                       | ***********************                 |   |
| 003.341 172  | 1557X                | MOV           | A,D                                     |   |   |   |   |
|  | .1558X               | INA           | ···177Q ······                          | • | • |   |   |
| 003,344 315 022 004  |                      | CALL          |   |   |   |   |   |
| 003,347 056 003 003 003,351 172  | 1560X                | IAAI          |   |   | *************************************** | •••••••                                 | •••••                                   |
|  | 1561X<br>1562X       | MOV<br>TRLCT  | A,D                                     |   |   |   | *** *********                           |
| 003.353 007  | 1563X                | RLC           |   |   |   |   |   |
|  | 1564x                | ···RLC···     | • |   | • | • | • |
| 000.000  | 1565X                |               | ' UC.2SB-4                              |   |   |   |   |
| 003,355 346 004  | 1566X                | ANI           | .0C:58B                                 |   | ******************                      |   | •••                                     |
| 003,357  | 1567X<br>1548X       | ORI<br>"CALL" | UC+8BW                                  | •••••                                   | 8 BIT WORDS                             | ******************                      |   |
| 003.364 056 000  | 1569X                | MVI           | L,UR.RBR                                |   |   |   |   |
| 003.366 315 012 004  | 1570X                | CALL          |   | ••••••                                  |   |   |   |
|  | 1571X                | MVI           | A.AC.BLY                                |   |   | /79.01.GC/                              |   |
| 003,373 315 053 000 003,376 056 004  |                      |               | DLY                                     |   | • | 779.01.6C/                              |   |
| 004.000315.012.004   | 1573X<br>1574X       | CATT<br>WAI   | L,UR,MCR                                |   |   | /79.01.GC/                              | • |
| 004.003 346 357  | 1575X                | ANI           | 377Q-UC+LOO                             |   |   | /79.01.GC/                              |   |
| tina na manangkatan kangkatan dalah mengangkan dan kanangkan dalah kebada kenangkan dalah berangkan dalah bera | 1576X<br>1577X       | CALL.         |   | TURN OFF LOOP-)                         | BACK                                    | /79.01.6C/                              | ••••••••••                              |
| 004.010321   | 1578X                | ege           | ·                                       |   |   |   |   |
| 004.011 311  | 1579X                | RET           | ***                                     |   |   |   |   |
|  | 1580X                | ÉLSÉ          | •••••                                   | • | • | • | • |
|  | 1581X I8251          | SPACE         | 4,10                                    |   |   |   |   |

| COMMON. DECKS, INVOKED.                 | , H-24 (TI 810) HEATH H8ASM V1.4 01/20/78 PAG<br> | E 35                                    |
|---|---|---|
|   |   |   |
|   | 1582X ** 18251 - INITIALIZE 8251                  | • |
| •••••••                                 | 1583X *   |   |
|   | 1584X * INITIALIZE AN 8251 PORT<br>1585X *        |   |
| ••••••••••••••••••••••••••••••••••••••• | 1586X * ENTRY (A) = PORT ADDRESS                  |   |
|   | 1587X * (HL)[15] = 1 IF TWO STOP BITS             |   |
|   | 1388X *   | • |
| • | 1589X * EXIT NONE<br>1590X *                      |   |
|   | 1591X * USES ALL                                  |   |
| •••••                                   | 1592X *   |   |
|   | 1593X   |   |
|   | 1594X 18251 EQU *                                 | • |
|   | 1595X XCHG  |   |
|   | 1596X MOV H,A<br>1597X MVI L,USR                  | *************************************** |
| • | 1598X MOV A,D                                     |   |
|   | 1599X ANI 2000 (A) = 2000 IF THE STOP PLTS        |   |
|   | 1000V CKKKZ ZOOGTON1+1B-0M1+ZB                    | • |
| • | 1601X   |   |
|   | 1602X STA T8251.B<br>1603X LXI B,18251.A          | **************                          |
| • | 1604X 18251.1 LDAX B                              |   |
|   | 1605X CPI #377Q                                   |   |
|   | 1808X JZ 18251,2                                  | • |
|   | 1607X CALL OUT<br>1608X INX B                     |   |
|   |   |   |
| *********************                   | 1609X JMP 18251.1<br>1610X 18251.2 MVI            |   |
|   | 1611X CALL OUT                                    |   |
|   |   |   |
|   | 1613X CALL IN                                     |   |
|   | 1615X 18251,A DB 0,0,0,0,0                        |   |
| *************************************** | 1615X 18251,A DB 0,0,0,0,0<br>1/316X DB OCI,1R    |   |
|   | 1617X I8251.B DB 0 CONFIGURATION BYTE             |   |
|   | 1618X DB 377Q                                     | • |
| • | 1619X ENDIF                                       |   |
|   |   | ***************                         |
|   |   |   |
|   |   |   |
|   | 1821X ***   | • |
| *************************************** | 1622X *   |   |
|   | 1823X * INFOT BYTE FROM SPECIFIED FORT 1624X *    |   |
| ••••••••••••                            | 1825X W ENTRY (H) = FORT ADDRESS                  |   |
|   | 1626X * (L) = OFFSET                              |   |
|   | 1627X ¥   |   |
|   | 1628X * EXIT (A) = BYTE READ                      |   |
|   | 1629X * 4550 (not)                                |   |
| ••••••                                  | 1630X * USES (PSW)<br>1631X *                     | • |
|   | 1632X   |   |
|   | 1632X<br>1633X IN EQU *                           |   |
| 004.012 174                             | 1634X MOV A,H                                     |   |
|   |   | ,                                       |

| 104   101   202   203   204   205   204   205   204   205    | 904-014 022 020 004 1658X STA IN-ADV 004-020 1637X IN-ADV 004-021 STI 1638X IN-ADV 1641X ## 0UT - QUITFUT 1642X * QUITFUT EYTE 10, SPECIFIED, POST 1641X # ENTRY (A) = ENTE 10, DEF, WRITTEN 1644X * ENTRY (A) = ENTE 10, DEF, WRITTEN 1644X * (H) = FORT ADDRESS 1644X * (H) = FORT ADDRESS 1644X * (L) = GFFSET 1644X * (H) = FORT ADDRESS 1644X * (L) = GFFSET 1644X * (H) = FORT ADDRESS 1644X * (L) = GFFSET 1644X * (L)   | HDOS LP: DEVICE DRIVER, H<br>COMMON DECKS INVOKED |   |   | •••••                                   |   | HEATH H8ASM V1.4 01/20/78<br>15:48;58 20-0CT-80 | PAGE 36                                 |
|--|--|---|---|---|---|---|---|---|
| 004.014 022 032 004 1636X  | 904-014 022 020 004 1658X STA IN-ADV 004-020 1637X IN-ADV 004-021 STI 1638X IN-ADV 1641X ## 0UT - QUITFUT 1642X * QUITFUT EYTE 10, SPECIFIED, POST 1641X # ENTRY (A) = ENTE 10, DEF, WRITTEN 1644X * ENTRY (A) = ENTE 10, DEF, WRITTEN 1644X * (H) = FORT ADDRESS 1644X * (H) = FORT ADDRESS 1644X * (L) = GFFSET 1644X * (H) = FORT ADDRESS 1644X * (L) = GFFSET 1644X * (H) = FORT ADDRESS 1644X * (L) = GFFSET 1644X * (L)   |   | ···  ··  · |   | .,                                      |   |   | · • • • • • • • • • • • • • • • • • • • |
|  | 004-021 311 1639X RET  1641X ## OUT - OUTPUT  1642X # OUTPUT PYTE TO SPECIFIED FORT  1642X # OUTPUT STE TO SPECIFIED FORT  1643X # ENTRY (A) " BYTE TO BE WRITTEN  1643X # (I) = FORT ADDRESS  1643X # (I) = OFFEET  1643X #   |   | 1635X   |   |   |   |   |   |
| 004-021 M11 1639X MET  1641X ## DUI - DUTFUT  1642X # DUIFUT STEE TO SPECIFIED FORT  1642X # CIL = PORT ADDRESS   CIL = PORT ADDRESS  1642X # CIL = PORT ADDRESS # CIL = PORT ADDRESS  1642X # CIL = PORT ADDRESS # CIL = PORT ADDRESS  1642X # CIL = PORT ADDRESS # CIL = PORT ADDRESS  1642X # CIL = PORT ADDRESS # CIL = PORT ADDRESS  1642X # CIL = PORT ADDRESS # CIL = PORT ADDRESS  1642X # CIL = PORT ADDRESS # CIL = PORT ADDRESS  1642X # CIL = PORT ADDRESS # CIL = PORT ADDRESS  1642X # CIL = PORT ADDRESS # CIL = PORT ADDRESS  1642X # CIL = PORT ADDRESS # PORT ADDRESS  1642X # CIL = PORT ADDRESS # PORT ADDRESS  1642X # CIL = PORT ADDRESS # PORT ADDRESS  1642X # CIL = PORT ADDRESS # PORT ADDRESS  1642X # CIL = PORT ADDRESS # PORT ADDRESS  1642X # CIL = PORT ADDRESS # PORT ADDRESS  1642X # CIL = PORT ADDRESS # PORT ADDRESS  1642X # CIL = PORT ADDRESS # PORT ADDRESS  1642X # CIL = PORT ADDRESS # PORT ADDRESS  1642X # CIL = PORT ADDRESS # PORT ADDRESS  1643X # CIL = PORT ADDRESS # PORT ADDRESS  1643X # CIL = PORT ADDRESS # PORT ADDRESS  1643X # CIL = PORT ADDRESS # PORT ADDRESS  1643X # CIL = PORT ADDRESS # PORT ADDRESS  1643X # CIL = PORT ADDRESS # PORT ADDRESS  1643X # CIL = PORT ADDRESS # PORT ADDRESS  1643X # CIL = PORT ADDRESS # PORT ADDRESS  1643X # CIL = PORT ADDRESS # PORT ADDRESS  1643X # CIL = PORT ADDRESS # PORT A | 004-021 311 1639X RET  1641X ## OUT - OUTPUT  1642X # OUTPUT PYTE TO SPECIFIED FORT  1642X # OUTPUT STE TO SPECIFIED FORT  1643X # ENTRY (A) " BYTE TO BE WRITTEN  1643X # (I) = FORT ADDRESS  1643X # (I) = OFFEET  1643X #   | 004.017 333 000                                   |   | a!A                                     | . TM+UIII                               | ,                                       | •         |   |
| 1641X  | 1641X **   | 004.020   | 1638X [N.ADD  |   | *-1                                     |   |   |   |
| 1642X  | 1442X  | 004.021 311                                       | 1839X   | RET                                     |   |   | ***************************************         | ••••••••••••••••••••••••••••••••••••••• |
| 1642X  | 1442X  | •••••   |   |   |   |   |   |   |
| 1642X  | 1442X  |   |   |   |   |   | ***************************************         | ******                                  |
| 1642X  | 1442X  | •••••   |   | • • • • • • • • •                       | • |   |   | •••••                                   |
| 1642X  | 1442X  |   | 1641X **  | 0UT                                     | OUTPUT                                  |   |   |   |
| 1644   | 1444   | ***************************************           | 1642X *   | • | •••••                                   | • |   | *************************************** |
| 1.648  | 1648X * EMIRY (A) * BYTE TO BE WRITTEN 1648X * (H) = PORT ADDRESS  1648X * (L) * OFFSET  1651X * USES NOME  1651X * USES NOME  1651X * USES NOME  1651X * (L) * OFFSET  1652X * (L) * OFFSET  1662X *  | ***************************************           |   | OUTPU                                   | T BYTE TO SPEC                          | IFIED PORT                              |   |   |
| 1646X *  | 1646X *  |   |   |   |   |   |   | *************************************** |
| 1649X * LL FOFFSET  1649X * EXIT MONE  1651X * USES | 1647X * (L) = OFFSET  1648X * EXIT NONE  1651X * USES PUSH FSW  1651X * USES P   | •           |   | ENTRY                                   | (A)=.BYT                                | E.TO.BE.WRITTE                          | Ŋ   |   |
| 1649   | 1649   |   |   |   | (H) = POR                               | T ADDRESS                               |   | •                                       |
| 1.49Y  | 1.649X # LEXIT NONE   1.651X # USES NONE   1.651X # USES NONE   1.653X   1.663X   1.653X   1.663X  | •••••••••••••••••                                 |   | • • • • • • • • • •                     |   | er I                                    | •••••   |   |
| 1650X * USES NOME 1651X * USES NOME 1652X *  004.022 1653X *  004.022 365 1655X DUY EQU *  004.022 365 1655X DUSH PSW 004.022 365 1655X HOV ATH 004.024 205 1657X ADD L  004.025 062 032 004 1858X STA DUT.ADD 004.030 361 1659X POP PSW 004.030 361 1659X POP PSW 004.031 323 000 1660X DUY **  004.032 1661X DUT.ADD EQU *-1  004.033 311 1662X RET 004.034 1663 XTEXT TBRA  1663X * STBRA USES TRE SOPPLIED INDEX TO SELECT A BYTE FROM THE 1666X * JUHP TABLE. THE CONTENTS OF THIS BYTE ARE ADDED TO THE 1669X * ADDRESS OF THE BYTE, YEILDING THE PROCESSOR ADDRESS.  1671X * CALL STBRA 1672X * DB LAB1* INDEX = 0 FOR LAB1 1673X * DB LAB1* INDEX = 1 FOR LAB2 1673X * DB LAB1* INDEX = 1 FOR LAB2 1673X * DB LAB1* INDEX = 1 FOR LAB1 1675X * ENTRY (A) = INDEX 1677X * EXTR TO COMPUTED ADDRESS 1679X * USES FIRT.  1680X 031.076 1680X * STBRA EQU 31076A IN H17 RDM  | 1651X * USES NONE   1651X * USES NONE   1651X * USES NONE   1652X *   1653X  |   |   | EXIT                                    | NONE                                    |   |   |   |
| 1653X   1653X   1655X   PUSH   PSW   | 1653X   1653X   20U   X   20U   X   20U   X   20U  | •••••   | 1350X.*   |   |   | • | •••••••••••••••••••••••••••••••••••••••         | •••••                                   |
| 1653X   1653X   1655X   1655   | 1653X   1653X   1655X   PUSH   PSM   | ************************************              |   | USES                                    | NONE                                    |   |   |   |
| 004-022 365 1455X FUSH FSW  004-022 365 1455X FUSH FSW  004-023 174 1455X MOV AFH  004-024 205 1657X ADD L  004-025 062 032 004 1259X STA DUT ADD  004-030 361 1659X POP FSW  004-030 361 1659X POP FSW  004-031 323 000 1266X OUT ADD EQU #-1  004-033 311 1662X RET  004-033 311 1662X RET  004-034 1663 XIEXT TBRA  1666X *  1666X *  1666X *  1666X *  1666X *  1667X * STARA USES THE SUPPLIED INDEX TO SELECT A BYTE FROM THE  1668X JUHP TABLE, THE CONTENTS OF THIS BYTE ARE ADDED TO THE  1669X * AUDRESS OF THE BYTE, YEILDING THE PROCESSOR ADDRESS,  1670X *  1677X * CALL STARA  1677X * DB LABL-* INDEX = 0 FOR LABL  1675X * DB LABL-* INDEX = 1 FOR LABL  1675X * DB LABL-* INDEX = N-1 FOR LABL  1675X * DB LABL-* INDEX = N-1 FOR LABL  1675X * DB LABL-* INDEX = N-1 FOR LABL  1675X * DB LABL-* INDEX = N-1 FOR LABL  1675X * DB LABL-* INDEX = N-1 FOR LABL  1675X * DB LABL-* INDEX = N-1 FOR LABL  1675X * DB LABL-* INDEX = N-1 FOR LABL  1675X * ENTRY (A) = INDEX = N-1 FOR LABL  1675X * ENTRY (A) = INDEX = N-1 FOR LABL  1675X * ENTRY (A) = INDEX = N-1 FOR LABL  1675X * ENTRY (A) = INDEX = N-1 FOR LABL  1675X * ENTRY (A) = INDEX = N-1 FOR LABL  1675X * ENTRY (A) = INDEX = N-1 FOR LABL  1675X * ENTRY (A) = INDEX = N-1 FOR LABL  1675X * ENTRY (A) = INDEX = N-1 FOR LABL  1675X * ENTRY (A) = INDEX = N-1 FOR LABL  1675X * ENTRY (A) = INDEX = N-1 FOR LABL  1675X * ENTRY (A) = INDEX = N-1 FOR LABL  1675X * ENTRY (A) = INDEX = N-1 FOR LABL FWA  1675X * ENTRY (A) = INDEX = N-1 FOR LABL FWA  1675X * ENTRY (A) = INDEX = N-1 FOR LABL FWA  1675X * ENTRY (B) = INDEX = N-1 FOR LABL FWA  1675X * ENTRY (B) = INDEX = N-1 FOR LABL FWA  1675X * ENTRY (B) = INDEX = N-1 FOR LABL FWA  1675X * ENTRY (B) = INDEX = N-1 FOR LABL FWA  1675X * ENTRY (B) = INDEX = N-1 FOR LABL FWA  1675X * ENTRY (B) = INDEX = N-1 FOR LABL FWA  1675X * ENTRY (B) = INDEX = N-1 FOR LABL FWA  1675X * ENTRY (B) = INDEX = N-1 FOR LABL FWA  1675X * ENTRY (B) = INDEX = N-1 FOR LABL FWA  1675X * ENTRY (B) = INDEX = N-1 FOR LABL FWA  1675X * ENTRY (B) = INDEX = N-1 FOR LABL FWA  1675X * EN | 004-022 365 1455X DUY EQU # PSW DO4-023 365 1455X PUSH PSW D04-023 174 1455X HOV A:H D04-024 205 1657X ADD L D04-025 062 062 062 062 062 062 062 062 062 062   |   |   |   |   |   |   | ••••••                                  |
| 004.022 365 1.555X PUSH PSW  004.023 174 1.553X HOU A;H  004.024 205 1.573X ADD L  004.024 205 1.573X ADD L  004.025 062 022 034 1858X STA DUT.ADD  004.030 361 1.657X PDP PSW  004.031 323 000 1860X UT ADD EQU #-1  004.031 323 000 1860X RET  004.032 1.661X UT.ADD EQU #-1  004.033 311 1662X RET  004.034 1.663 XTEXT TBRA   1665X * STBRA "BRANCH RELATIVE THOUGH TABLE.  1666X * STBRA USES THE SUPPLIED INDEX TO SELECT A BYTE FROM THE 1668X * JUHP TABLE. THE CONTENTS OF THIS BYTE ARE ADDED TO THE 1668X * ADDRESS OF THE BYTE YEILDING THE PROCESSOR ADDRESS.  1670X * ADDRESS OF THE BYTE YEILDING THE PROCESSOR ADDRESS.  1671X * CALL STBRA 1672X DB LABL-* INDEX 1 FOR LABL 1672X * DB LABL-* INDEX 1 FOR LABL 1673X * DB LABL-* INDEX 1 FOR LABL 1674X * DB LABL-* INDEX 1 FOR LABL 1675X * DB LABL-* INDEX 2 I FOR LABL 1674X * DB LABL-* INDEX 2 I FOR LABL 1675X * ENTRY (A) = INDEX 2 INDEX 3 I FOR LABL 1675X * ENTRY (A) = INDEX 3 I FOR LABL 1675X * ENTRY (A) = INDEX 3 I FOR LABL 1675X * ENTRY (A) = INDEX 3 I FOR LABL 1675X * ENTRY (B) = INDEX 3 I FOR LABL 1675X | 004.022 365 1.555X PUSH PSW  004.023 174 1.555X HOV A;H  004.024 205 1.657X ADD L  004.024 205 1.657X ADD L  004.025 062 032 004 1858X STA DUT.ADD  004.030 361 1.659X POP PSW  004.031 323 000 1.660X UIT ADD EQU *-1  004.031 323 000 1.660X RET  004.032 1.661X DUT.ADD EQU *-1  004.033 311 1.662X RET  004.034 1.663 XTEXT TBRA  1.665X **  1.66   |   |   | ··· }-'A:::··-                          |   |   |   | •••••                                   |
| 004.024   205   1657X  | 004.024   205   1657X   ADD   004.024   205   1657X   ADD   004.025   062.032   004   1658X   STA   DUT.ADD   004.025   062.032   004   1658X   STA   DUT.ADD   004.033   361   1659X   POP   PSW   004.032   1661X   OUT.ADD   EQU   #-1   004.033   311   1662X   RET   004.034   1663   XTEXT   TBRA   TBRANCH   REL'ATIVE   THOUGH   TABLE   TAB   |   |   |   |   |   |   |   |
| 004.024 205 1.557X ADD L 004.025 062 032 004 1.259X \$ A DUT, ADD 004.030 361 1.559X POP PSW 004.031 323 000 1260X OUT ADD EQU *-1 004.032 1.661X OUT, ADD EQU *-1 004.033 311 1.662X RET 004.034 1.663 XTEXT TBRA  1663 XTEXT TBRA  1666X *  1667X * \$TBRA'-BRANCH RELATIVE THOUGH TABLE. 1666X * 1667X * \$TBRA'-BRANCH RELATIVE THOUGH TABLE. 1666X * JUHP TABLE. THE CONTENTS OF THIS BYTE ARE ADDED TO THE 1668X * JUHP TABLE. THE CONTENTS OF THIS BYTE ARE ADDED TO THE 1669X * ADDRESS' OF THE BYTE, YEILDING THE PROCESSOR ADDRESS. 1671X * CALL \$TBRA 1672X * DB LABL-* INDEX = 0 FOR LABL 1673X * DB LABL-* INDEX = N-1 FOR LABL 1675X * DB LABL-* INDEX = N-1 FOR LABL 1675X * DB LABL-* INDEX = N-1 FOR LABL 1675X * DB LABN-* INDEX = N-1 FOR LABL 1675X * BELABN-* INDEX = N-1 FOR LABL 1675X * CALL \$TBRA 1675X * CALL \$TBRA INDEX = N-1 FOR LABL 1675X * DB LABN-* INDEX = N-1 FOR LABL 1675X * CALL \$TBRA INDEX = N-1 FOR LABL 1675X * CALL \$TBRA INDEX = N-1 FOR LABL 1675X * CALL \$TBRA INDEX = N-1 FOR LABL 1675X * CALL \$TBRA INDEX = N-1 FOR LABL 1675X * CALL \$TBRA INDEX = N-1 FOR LABL 1675X * CALL \$TBRA INDEX = N-1 FOR LABL 1675X * CALL \$TBRA INDEX = N-1 FOR LABL 1675X * CALL \$TBRA INDEX = N-1 FOR LABL 1675X * CALL \$TBRA INDEX = N-1 FOR LABL 1675X * CALL \$TBRA INDEX = N-1 FOR LABL 1675X * CALL \$TBRA INDEX = N-1 FOR LABL 1675X * CALL \$TBRA INDEX = N-1 FOR LABL 1675X * CALL \$TBRA INDEX = N-1 FOR LABL 1675X * CALL \$TBRA INDEX = N-1 FOR LABL 1675X * CALL \$TBRA INDEX = N-1 FOR LABL  | 004.024 205 1.557X ADD L 004.025 022 032 004 1259X STA 0UT.ADD 004.030 361 1.559X POP PSW 004.031 323 000 1660X OUT.ADD EQU *-1 004.032 1.661X OUT.ADD EQU *-1 004.033 311 1662X RET 004.034 1.663 XTEXT TBRA  1665X **  1666X *  16   |   |   |   |   | • |   | *************************************** |
| 004.030 361 1659X POP PSW 004.031 323 000 1260X 001 **-* 004.032 1661X OUT.ADD EQU *-1 004.033 311 1662X RET 004.034 1663 XTEXT TBRA   | 004.030 361 1659X POP PSW  004.031 231 000 1260V 001 *-*  004.032 1661X OUT.ADD EQU *-!  004.033 311 1662X RET  004.034 1663 XTEXT TBRA   1665X ** \$TBRA - BRANCH RELATIVE THOUGH TABLE.  1666X * JUHP TABLE. THE CONTENTS OF THIS BYTE ARE ADDED TO THE  1689X * ADDRESS OF THE BYTE, YELLDING THE PROCESSOR ADDRESS.  1670X *  1671X * CALL \$TBRA  1672X * DB LABL * INDEX = 0 FOR LABL  1674X * DB LABL * INDEX = 1 FOR LABL  1675X * DB LABL * INDEX = 1 FOR LABL  1675X * DB LABL * INDEX = 1 FOR LABL  1675X * DB LABL * INDEX = 1 FOR LABL  1675X * DB LABL * INDEX = N-1 FOR LABN  1675X * DB LABL * INDEX = N-1 FOR LABN  1675X * CALL \$TBRA  1675X * DB LABL * INDEX = N-1 FOR LABN  1675X * DB LABL * INDEX = N-1 FOR LABN  1675X * CALL \$TBRA CALL \$T | 004.024 205                                       |   |   |   |   |   |   |
| 004.030 361 1659X POP PSW 004.031 323 000 14260X 0UT AND EQU *-1 004.032 1661X OUT, AND EQU *-1 004.033 311 1622X RET 004.034 1663 XTEXT TBRA  | 004.030 361 1659X POP PSW 004.031 323 000 1669X 0017 *** 004.032 1661X 0UT.ADD EGU **-1  004.033 311 1662X RET 004.034 1663 XTEXT TBRA  1665X ** \$TBRA = BRANCH RELATIVE THOUGH TABLE, 1666X * 1666X * 1668X * JUMP TABLE, THE CONTENTS OF THIS BYTE ARE ADDED TO THE 1668X * ADDRESS OF THE BYTE, YELDING THE PROCESSOR ADDRESS, 1670X * 1671X * CALL \$TBRA 1672X * DB LABL * INDEX = 0 FOR LAB1 1673X * DB LABL * INDEX = 1 FOR LABN 1675X * DB LABL * INDEX = N-1 FOR LABN 1675X * DB LABN * INDEX = N-1 FOR LABN 1675X * DB LABN * INDEX = N-1 FOR LABN 1675X * DB LABN * INDEX = N-1 FOR LABN 1675X * DB LABN * INDEX = N-1 FOR LABN 1675X * USES F, H, L 1676X * EXIT TO COMPUTED ADDRESS 1676X * USES F, H, L 1680X 031.076 1682X \$TBRA EQU 31076A IN H17 ROM  | 7041025085035004                                  | .1928X  | STA                                     | OUT.ADD                                 |   | ***************************************         | •••••                                   |
| 004.032 1661X OUT.ADD EQU *-1  004.033 311 1662X RET  004.034 1663 XTEXT TBRA   1665 X ** *TBRA - BRANCH RELATIVE THOUGH TABLE.  1666X * 1666X * * *TBRA OSES THE SUPPLIED THOEX TO SELECT A BYTE FROM THE  1668X * JUHP TABLE. THE CONTENTS OF THIS BYTE ARE ADDED TO THE  1670X * ADDRESS OF THE BYTE, YEILDING THE PROCESSOR ADDRESS.  1671X * CALL STBRA  1671X * DB LAB1 * INDEX = 0 FOR LAB1  1673X * DB LAB1 * INDEX = 1 FOR LAB2  1674X * DB LAB1 * INDEX = N-1 FOR LABN  1675X *  1675X * DB LABN * INDEX = N-1 FOR LABN  1675X * LABN * INDEX = N-1 FOR LABN  1675X * LABN * INDEX = N-1 FOR LABN  1675X * LABN * INDEX = N-1 FOR LABN  1675X * LABN * INDEX = N-1 FOR LABN  1675X * LABN * INDEX = N-1 FOR LABN  1675X * LABN * INDEX = N-1 FOR LABN  1675X * LABN * INDEX = N-1 FOR LABN  1675X * LABN * INDEX = N-1 FOR LABN  1675X * LABN * INDEX = N-1 FOR LABN  1675X * LABN * INDEX = N-1 FOR LABN  1675X * LABN * INDEX = N-1 FOR LABN  1675X * LABN * INDEX = N-1 FOR LABN  1675X * LABN * LABN * INDEX = N-1 FOR LABN  1675X * LABN * | 004.032 1661X OUT.ADD EQU *-1  004.033 311 1662X RET  004.034 1663 XTEXT TBRA  1665X ** *TBRA - BRANCH RELATIVE THOUGH TABLE.  1666X * 1666X * * *TBRA 'OSES TRE SUPPLIED 'INDEX TO SELECT A BYTE FROM THE  1668X * JUMP TABLE. THE CONTENTS OF THIS BYTE ARE ADDED TO THE  1648X * ADDRESS OF THE BYTE, YELDING THE PROCESSOR ADDRESS.  1670X * ADDRESS OF THE BYTE, YELDING THE PROCESSOR ADDRESS.  1671X * CALL *TBRA  1672X * DB LAB1-* INDEX = 0 FOR LAB1  1673X * DB LAB1-* INDEX = 1 FOR LAB2  1674X * DB LAB1-* INDEX = N-1 FOR LABN  1675X *  1675X * DB LABN-* INDEX = N-1 FOR LABN  1675X * INTEX = TABLE FWA  1675X * INTEX = TABLE FWA  1675X * INTEX = TABLE FWA  1675X * USES F+H-L  031.076 1681X  |   |   |   | ₽S₩                                     |   |   |   |
| 004.033 311  | 004.034 11 1663  |   |   |   |   | • |   | •••••                                   |
| 1663   XTEXT TBRA   1665X **   \$TBRA - BRANCH RELATIVE THOUGH TABLE.   1666X *   1666X *   1666X *   1666X *   1666X *   1668X *   JUMP TABLE. THE CONTENTS OF THIS BYTE ARE ADDED TO THE   1689X *   ADDRESS OF THE BYTE, YEILDING THE PROCESSOR ADDRESS.   1671X *   CALL STBRA   1671X *   CALL STBRA   1672X *   DB   LABL-*   INDEX = 0 FOR LAB1   1672X *   DB   LABL-*   INDEX = 1 FOR LAB2   1674X *   DB   LABN-*   INDEX = N-1 FOR LABN   1675X *   1676X *   ENTRY (A) = INDEX   NEXT = N-1 FOR LABN   1675X *   (RET) = TABLE FWA   1679X *   (RET) = TABLE FWA   (RET) = TABLE FW  | 1663   XTEXT TBRA   1663   XTEXT TBRA   1665X **   *TBRA BRANCH RELATIVE THOUGH TABLE.   1666X *   1666X *   1666X *   1666X *   JUMP TABLE. THE CONTENTS OF THIS BYTE ARE ADDED TO THE   1668X *   JUMP TABLE. THE CONTENTS OF THIS BYTE ARE ADDED TO THE   1628X *   ADDRESS OF THE BYTE, YEILDING THE PROCESSOR ADDRESS.   1670X *   1671X *   CALL   *TBRA   INDEX = 0 FOR LAB1   1672X *   DB   LAB1-*   INDEX = 1 FOR LAB1   1672X *   DB   LAB2-*   INDEX = 1 FOR LAB2   1674X *   DB   LABN-*   INDEX = N-1 FOR LABN   1675X *   1675X *   ENTRY (A) = INDEX   1677X *   (RET) = TABLE FWA   1678X *   EXIT TO COMPUTED ADDRESS   1679X *   1680X   1681X   1680X   1681X  |   |   |   | <b>*-1</b>                              | • |   |   |
| 1865X **   \$TBRA - BRANCH RELATIVE THOUGH TABLE.   1666X *   166  | 1865X **   |   |   |   | <b>ፓ</b> የነር ለ                          |   |   |   |
| 1666X * \$TBRA USES THE SUPPLIED INDEX TO SELECT A BYTE FROM THE 1668X * JUMP TABLE, THE CONTENTS OF THIS BYTE ARE ADDED TO THE 1669X * ADDRESS OF THE BYTE, YEILDING THE PROCESSOR ADDRESS.  1670X * CALL STBRA 1672X * DB LABI-* INDEX = 0 FOR LABI 1673X * DB LABI-* INDEX = 1 FOR LAB2 1674X * DB LABN-* INDEX = N-1 FOR LABN  1675X * 1675X * ENTRY (A) = INDEX 1675X * (REY) = TABLE FWA 1676X * EXIT TO COMPUTED ADDRESS 1679X * USES F,H,L 1680X 1680X 1681X 031.076 1682X \$TBRA EQU 31076A IN H17 ROM  | 1666X * 1667X * \$TBRA USES THE SUPPLIED INDEX TO SELECT A BYTE FROM THE 1668X * JUMP TABLE, THE CONTENTS OF THIS BYTE ARE ADDED TO THE 1629X * ADDRESS OF THE BYTE, YEILDING THE PROCESSOR ADDRESS.  1670X * CALL \$TBRA 1672X * DB LABI-* INDEX = 0 FOR LABI 1673X * DB LABZ-* INDEX = 1 FOR LAB2 1674X * DB LABN-* INDEX = N-1 FOR LABN 1675X * 1675X * 1675X * CRUE TABLE FWA 1675X * CRUE TABLE FWA 1675X * CRUE TABLE FWA 1675X * USES F,H,L 1680X 1681X 031.076 1682X \$TBRA EQU 31076A IN H17 ROM  | ••••••  |   | .,                                      | 1 DVH                                   |   |   | ••••                                    |
| 1668X *   JUMP TABLE, THE CONTENTS OF THIS BYTE ARE ADDED TO THE   1668X *   ANDRESS OF THE BYTE, YEILDING THE PROCESSOR ADDRESS.  | 1668X *   JUMP TABLE. THE CONTENTS OF THIS BYTE ARE ADDED TO THE   1668Y *   ADDRESS OF THE BYTE, YEILDING THE PROCESSOR ADDRESS.  |   | 1666X *   |   |   |   |   |   |
| 1669X * ALDRESS OF THE BYTE, YEILDING THE PROCESSOR ADDRESS.  1670X * CALL \$TBRA  1672X * DB LAB1-* INDEX = 0 FOR LAB1  1673X * DB LAB2-* INDEX = 1 FOR LAB2  1674X * DB LABN-* INDEX = N-1 FOR LABN  1675X * 1676X * ENTRY (A) = INDEX  1677X * (RET) = TABLE FWA  1678X * EXIT TO COMPUTED ADDRESS  1679X * USES F,H,L  1680X  1681X  031.076 1682X \$TBRA EQU 31076A IN H17 ROM  | 1669X * ADDRESS OF THE BYTE, YEILDING THE PROCESSOR ADDRESS.  1670X * CALL \$TBRA  1672X * DB LAB1-* INDEX = 0 FOR LAB1  1673X * DB LAB2-* INDEX = 1 FOR LAB2  1674X * DB LABN-* INDEX = N-1 FOR LABN  1675X * 1676X * ENTRY (A) = INDEX  1677X * (RET) = TABLE FWA  1678X * EXIT TO COMPUTED ADDRESS  1679X * USES F,H,L  1680X  1681X  031.076 1682X \$TBRA EQU 31076A IN H17 ROM  |   |   | JUMP 1                                  | ABLE. THE CON                           | TENTS OF THIS I                         | BYTE ARE ADDED TO THE                           |   |
| 1670X * 1671X * 1672X * 1672X * 168  | 1670X * 1671X * 1672X * 1672X * 1672X * 1673X * 16822 * 1674X * 108  |   |   | ADDRES                                  | S OF THE BYTE                           | YETUDING THE                            | PROCESSOR ADDRESS.                              | •••••                                   |
| 1672X * DB LAB1-* INDEX = 0 FOR LAB1 1673X * DB LAB2-* INDEX = 1 FOR LAB2 1674X * DB LABN-* INDEX = N-1 FOR LABN 1675X * 1676X * ENTRY (A) = INDEX 1677X * (RET) = TABLE FWA 1678X * EXIT TO COMPUTED ADDRESS 1679X * USES F,H,L 1680X 1681X 031.076 1682X \$TBRA EQU 31076A IN H17 RDM  | 1672X * DB LAB1-* INDEX = 0 FOR LAB1 1673X * DB LAB2-* INDEX = 1 FOR LAB2 1674X * DB LABN-* INDEX = N-1 FOR LABN 1675X * ENTRY (A) = INDEX 1676X * ENTRY (A) = INDEX 1677X * (REY) = TABLE FWA 1678X * EXIT TO COMPUTED ADDRESS 1679X * USES F,H,L 1680X 1681X 031.076 1682X \$TBRA EQU 31076A IN H17 ROM  | **********  |   |   |   |   |   |   |
| 1673X * DB LAB2-* INDEX = 1 FOR LAB2 1674X * DB LABN-* INDEX = N-1 FOR LABN 1675X * 1676X * ENTRY (A) = INDEX 1677X * (RET) = TABLE FWA 1678X * EXIT TO COMPUTED ADDRESS 1679X * USES F,H,L 1680X 1681X 031.076 1682X \$TBRA EQU 31076A IN H17 ROM   | 1673X * DB LAB2-* INDEX = 1 FOR LAB2 1674X * DB LABN-* INDEX = N-1 FOR LABN 1675X * 1676X * ENTRY (A) = INDEX 1677X * (RET) = TABLE FWA 1678X * EXIT TO COMPUTED ADDRESS 1679X * USES F,H,L 1680X 1681X 031.076 1682X \$TBRA EQU 31076A IN H17 ROM   |   |   |   |   |   |   | ••••••                                  |
| 1674X * DB LABN-* INDEX = N-1 FOR LABN  1675X * 1676X * ENTRY (A) = INDEX 1677X * (RET) = TABLE FWA 1678X * EXIT TO COMPUTED ADDRESS 1679X * USES F,H,L 1680X 1681X 031.076 1682X \$TBRA EQU 31076A IN H17 ROM   | 1674X * DB LABN-* INDEX = N-1 FOR LABN 1675X * 1676X * ENTRY (A) = INDEX 1677X * (RET) = TABLE FWA 1678X * EXIT TO COMPUTED ADDRESS 1679X * USES F,H,L 1680X 1680X 031.076 1682X \$TBRA EQU 31076A IN H17 ROM  |   |   |   |   |   |   | •••••                                   |
| 1675% * 1676% * ENTRY (A) = INDEX 1677% * (REY) = TABLE FWA 1678% * EXIT TO COMPUTED ADDRESS 1679% * USES F,H,L 1680% 1681% 031.076 1682% \$TBRA EQU 31076A IN H17 ROM   | 1675% * 1676X * ENTRY (A) = INDEX 1677X * (RET) = TABLE FWA 1678X * EXIT TO COMPUTED ADDRESS 1679X * USES F,H,L 1680X 1680X 031.076 1682X \$TBRA EQU 31076A IN H17 ROM   |   |   |   |   |   |   |   |
| 1676X * ENTRY (A) = INDEX 1677X * (REY) = TABLE FWA 1678X * EXIT TO COMPUTED ADDRESS 1679X * USES F,H,L 1680X 1680X 1681X 031.076 1682X \$TBRA EQU 31076A IN H17 RDM   | 1676X * ENTRY (A) = INDEX 1677X * (RET) = TABLE FWA 1678X * EXIT TO COMPUTED ADDRESS 1679X * USES F,H,L 1680X 1680X 031.076 1682X \$TBRA EQU 31076A IN H17 ROM   | ·····   |   |   | <b>について</b>                             | TIATIEY = W.                            | T FUR LABN                                      | ••••                                    |
| 16//X * (RET) = TABLE FWA 1678X * EXIT TO COMPUTED ADDRESS 1679X * USES F,H,L 1680X 1680X 1681X 031.076 1682X \$TBRA EQU 31076A IN H17 ROM   | 16//X * (RET) = TABLE FWA 1678X * EXIT TO COMPUTED ADDRESS 1679X * USES F,H,L 1680X 1681X 031.076 1682X \$TBRA EQU 31076A IN H17 ROM   |   |   | ENTRY                                   | (A) = INDEX                             |   |   |   |
| 1678X * EXIT TO COMPUTED ADDRESS 1679X * USES F,H,L 1680X 1681X 031.076 1682X \$TBRA EQU 31076A IN H17 RDM   | 1678X * EXIT TO COMPUTED ADDRESS 1679X * USES F,H,L 1680X 1681X 031.076 1682X \$TBRA EQU 31076A IN H17 ROM   |   |   |   | ····(RET) = TABI                        | ĽĖ FWA                                  | ***************************************         | • |
| 1679X * USES F,H,L<br>1680X<br>1681X<br>031.076 1682X \$TBRA EQU 31076A IN H17 RDM   | 16/7X # USES F,H,L<br>1680X<br>1681X<br>031.076 1682X \$TBRA EQU 31076A IN H17 RDM   |   |   |   |   |   |   |   |
| 1681X<br>031.076 1682X \$TBRA EQU 31076A IN H17 ROM  | 1681X<br>031.076 1682X \$TBRA EQU 31076A IN H17 ROM  |   |   | USES                                    | FiHiL                                   |   | ***************************************         |   |
| 031.076 1682X \$TBRA EQU 31076A IN H17 ROM   | 031.076 1682X \$TBRA EQU 31076A IN H17 ROM   |   |   |   |   |   | ***************************************         | •••••                                   |
|  |  |   |   | EQU                                     | 31076A                                  | IN H17 PO                               | 1   |   |
|  | •  | 004.034   |   |   |   |   | `   |   |
|  |  |   |   |   |   |   |   |   |

| HDUS LP: DEVICE DR:<br>COMMON.DECKS.INVOK | IVER, H-24 (TI 810)<br>ED               | •••••                                   | ••••••                                  | \$T.YP.TX                               | HEATH HBASM V1.4 01/20/78<br>15:49:00 20-001-80 | PAGE                                    | 37                                      |
|---|---|---|---|---|---|---|---|
|   | 4 / MeW also                            |   |   | • | ·····   |   |   |
|   | 1685X **<br>1686X.*                     |   | - TYPE TEXT.                            |   |   |   |   |
|   | 1687X *                                 | \$TYPTX                                 | IS CALLED TO TY                         | PE A BLOCK OF 1                         | TEXT ON THE SYSTEM CONSOLE.                     | ••••••                                  |   |
| ***************************************   | 1488X.*<br>1689X *                      |   |   |   | AGE RETURN LINE FEED,                           | • |   |
| ••••••                                    | 1690X.*<br>1691X *                      | .A.BYTE.                                | .WITH .THE .2000 .I                     | SIT.SET.IS.THE.                         | -AST BYTE IN THE MESSAGE,                       |   |   |
|   | 1692X *                                 |   |   |   |   |   |   |
|   | 1693X *<br>1694X *                      | EXIT<br>USES                            | (RET) = TEXT<br>TO (RET+LENGTH          | i)                                      |   | •••••                                   | • |
| ••••••                                    | 1695X                                   |   | A•F                                     | • |   | •••••                                   |   |
| 031.136                                   | 1696X<br>1697X \$TYPTX                  |   | 31136A                                  | TO YES SEVEN ASSESSMENT                 | ·····   |   |   |
|   | 1698X                                   |   |   | IN H17 ROM                              |   |   |   |
| 031,144                                   | 1699X \$TYPTX.                          | EQU                                     | 31144A                                  | IN H17 ROM                              |   | ••••                                    |   |
| •••••••••••••••••••••••••••••••••••••••   | • | • • • • • • • • • • • • •               | • | •••••                                   |   | ••• ••••                                |   |
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| DOS LPY DEVICE DRIVER;<br>OMMON DECKS INVOKED            |   |   |   | TLF                                     | HEATH H8ASM V1.4 01/20/78 PAGE 38       |
|--|---|---|---|---|---|
|  |   |   |   |   |   |
| ·····  | 1702  | *** TLF                                 | TABL                                    | E OF LP: UNIT                           | CONSTANTS                               |
|  | 1703  |   |   |   |   |
|  | 1704<br>1705                                | *                                       |   |   |   |
| 004.034  | 1706  | TLF UNA EQU                             | }∗                                      | ,                                       |   |
| 0041034000   | 1707<br>*********************************** | ייידור:וואדייי                          | ······································  |   | UNIT NUMBER                             |
|  | 1709  | 721 701(1                               | 2.2                                     | v                                       | ORTI RONDER                             |
| 004;034  |   | TLFVAS                                  | Edo                                     | TLP∵UNT                                 | [7] = 1 IF ASSIGNED                     |
| 0047035001   | 1711  | TUPTFUG                                 | pr                                      | TOFLT:FG                                | GENERAL FLAG BYTE                       |
|  | 1713  |   | 2.12                                    | Di Ci il O                              | OUNCERNE FERO DITE                      |
| 004.038340   |   | "TLPVPOR"                               | DR                                      | TOFUT LEFT.                             | PORT                                    |
| 004.036  | 1715<br>1718                                | D.PORT                                  | EQU                                     | TLP.FOR                                 |   |
| 004.037 030 000  | 1717  | TLP.BAU                                 | DW                                      | DFLT.BD                                 | [15] = 1 IF TWO STOP BITS               |
| 004.041 006  | 1718  | TLP.LPI                                 |   | ncit i i                                | 1 THEC / THEU                           |
|  | 1720  | 1 huF + huF ±                           | DB                                      | DFLT.LI                                 | LINES/INCH                              |
| 004.042 204  | 1721  | TLP.WID                                 | DB                                      | DFLT.WD                                 | CHARACTERS/LINE                         |
| 004.043 102  | 1722<br>1723                                | TLP+LEN                                 | DB                                      | DFLT.FL                                 | FORM LENGTH                             |
|  | 1724  |   | • |   | TORT LEROTT                             |
| 004.044 074  | 1725<br>1726                                | TLP.LC                                  | DB                                      | DFLT.LC                                 | LINE COUNT = LINES/PAGE                 |
| 004.045 001  |   | TLP.LX                                  | DB                                      | DFLT.LX                                 | LINE INDEX = LINE HEAD IS OVER          |
|  | ```1728`                                    | • | •••••                                   |   | *************************************** |
| 004.046 001  | 1729  | TLP.CX                                  | DB                                      | DFLT.CX                                 | COLUMN INDEX = COLUMN HEAD IS OVER      |
| 004.047 103 107 004.051                                  | 1731<br>1732                                | ns<br>Ds                                |   |   | MY ADDRESS FOR RELOCATION  CH AREA      |
|  | 1733°<br>1734                               | r.ov                                    | (g                                      | • | ,,                                      |
| 004,151055000062   |   | END                                     | 1                                       |   |   |
| 000 065 000  |   | ,                                       |   |   |   |
| 115 000 124<br>000 127 000                               |   |   |   |   |   |
| 144 000 151  | • • • • • • • • • •                         | • | • | •••••                                   |   |
| 000 157 000<br>164 000 171                               |   |   |   | *************************************** |   |
| 000 174 000  |   |   |   |   |   |
| 200 001 212  |   |   | • | •••••                                   |   |
| 001 226 001<br>243 001 255                               |   |   |   |   |   |
| 001 267 001  |   |   |   |   |   |
| 302 001 348  |   |   |   |   | ••••••••••••••••••••••••••••••••••••••• |
| 001 350 001  |   |   |   |   |   |
| 352 001 003  |   |   |   |   |   |
| 352 001 003<br>002 033 002                               |   |   |   |   | *************************************** |
| 352 001 003<br>002 033 002<br>044 002 055                |   |   |   |   |   |
| 352 001 003<br>002 033 002                               |   |   | • | •••••                                   |   |
| 352 001 003<br>002 033 002<br>044 002 055<br>002 062 002 | • •,• • • • • • • •                         |   |   |   |   |

| COMMON, DECKS                           | INVOKED.               | R, H-24 (TI 810) HEATH H8ASM V1.4 01/20/78 PAGE 39<br>15:49:01 20-0CI-80 |             |
|---|------------------------|--|-------------|
|   |                        |  |             |
| • | 076 002                | 01   |             |
|   | 9.92 . 1.11.           | vi2  |             |
|   | 114 002                | 21   |             |
|   | 002.125.               |  |             |
| *************************************** | 143 002                |  |             |
|   |                        |  |             |
|   | 002.154<br>161.002     | 67   |             |
|   | 002 176                | 002  |             |
|   | 203 002                | 06   |             |
|   | 002 214                |  |             |
|   | 222 002                | 27   |             |
|   | 002.236.<br>245.002    | 02   |             |
|   | 245 002                | 50   |             |
|   | 002 255<br>260 002 .   | 02   |             |
|   | 260 002                | 63   | • • • •     |
| • | 002 270 ·              |  |             |
|   | 274 002<br>002 303     |  |             |
| •••••                                   | ··316··602··           | ላል<br>ተታ   |             |
|   | 002 324                |  | • • • •     |
| • | 327 002                | 45   |             |
|   | 002 342                |  |             |
| • | 345 002                |  |             |
|   | 002 355                |  |             |
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|   | 002 372                |  |             |
| ***********************                 | 377 002 0              | 04   |             |
|   | 003 007 (              | 03   |             |
| *************************************** | 013 003 (              | 16   |             |
|   | 003 023 (              |  |             |
|   | .030003(               |  | . <b></b> . |
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|   | .091.003.0             |  | • • • •     |
|   | 003 073 (              |  |             |
|   | 106.003.1              |  |             |
| • | 003 117 0<br>124 003 1 |  |             |
|   | 003 140 0              |  | • • • •     |
| • | 145 003 1              |  |             |
|   | 003 153 0              |  | • • • •     |
| • | 1569031                | ( <del>S</del>   |             |
|   | 003 171 0              | )3   |             |
| • | 2040035                | 2  |             |
|   | 003 217 0              | 03   |             |
| • | 224100312              | 7  |             |
|   | 003 237 0              | 03   |             |
| • | 245100312              |  |             |
|   | 003 257 0              |  |             |
|   | 264100312              | 2  |             |
|   | 003 275 0              | 93   |             |
|   | 311 003 3              | 6  |             |
| • * • • • • • • • • • • • • • • • • • • | 003.327.0<br>335.003.3 | 3  |             |
|   | 335 003 3              | 5  | • • • •     |
|   | 903 362 0              | 3  |             |
|   |                        |  |             |

| HDOS LF: DEVICE DRIVER, H-24 (TI 810)<br>COMMON.DECKS.INVOKED | HEATH H8ASM V1.4 01/20/7815:A9:01 .20-0CI-80 | PAGE                                    | 40    |
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| 367 003 001<br>004 006 004<br>015 004 026                     |  |   |       |
|   |  | • |       |
| 1735 STATEMENTS<br>O ERRORS DETECTED<br>11246 BYTES FREE      |  |   |       |
|   | ······································       |   |       |
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|                 | S. REFERENCE.          | TABLE        | TT 810) XREF V1.1 PAGE 41               |
|-----------------|------------------------|--------------|---|
|                 |                        |              |   |
| \$CN            |                        | <u>727</u> L | 857 877                                 |
| \$DC:           |                        | / 20         |   |
|                 |                        | 7294         |   |
| \$LBI           |                        | 735L         | 880                                     |
| \$P\$J          |                        | <u>7</u> 39L | 830                                     |
| \$PB\<br>\$SN/  |                        | 741L         | 907                                     |
| * \$00          |                        | 723L<br>737L | 810<br>808                              |
| \$TBL           |                        | 731L         |   |
| *YBF            |                        | ·····iốiភិ   | 1682E                                   |
|                 | TX 031136              | 916          | 14070                                   |
| \$TYF           | TX. 031144             | 1699E        | 107/5                                   |
|                 | LS 042220              | 733L         |   |
| •               | 001354                 |              | 758 759 9925 993 994                    |
| . ABL           | SS 040024              | 244E         | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| ALA             | RM 002136              | 217E         |   |
| • ALE           | DS 040013              | 242E         |   |
| . CHF           | <u> </u>               |              |   |
| • CLE           | AN 000205              | 85L          |   |
|                 | AR000055               | 67L          |   |
|                 | ARA 000056             | 68L          |   |
|                 | SE 000046              |              |   |
| • ULN           | 000007                 | 44L          |   |
|                 | 3F0000009              | 43L          |   |
| ·CRC            | 002347                 | 225E         |   |
|                 | 50M 040027             | 245E         |   |
| CTC             | 002172                 | 219E         |   |
|                 | 2FL '040066''''        | 251E         |   |
| CTL             | 000041<br>LG 040011    | 55L          |   |
| .DAD            |                        | 241E         |   |
|                 | DE 000023              | 86L<br>85L   |   |
|                 | ET 000050              | 62L          |   |
|                 | 17000030               | 71L          |   |
|                 | S 040021               | 243E         |   |
| יייייייייי דענץ | 000053                 | 214E         |   |
|                 | 1S 000203              | 83L          |   |
|                 | W000201                | 81Ľ          |   |
| . DOD           | 003122                 | 228E         |   |
|                 | 003356                 | 530E         |   |
|                 | IOD 040007             | 239E         |   |
| .DSP            | :07 ° 040006 · · · · · | 338E         |   |
| . DUM           | 001374                 | 216E         |   |
| VERR            | IR````                 | 89L          |   |
| •EXI            |                        | 37L          |   |
| RUA             | 002140                 | 218E         |   |
| • IDE           |                        | 213E         |   |
| ·IOM            |                        | 539E         |   |
| LIN             |                        | 54L          |   |
| "LUA            |                        | 215E         |   |
| +LOA            | D 000062               | 72L          |   |
| + LUA           | 0000010                | 45L          |   |
| • MFL.          | G 040010               | 240E         |   |
|                 | \$600202               | 82L          |   |
| iuom.           | T 000200               | 80L          |   |
|                 | 000054                 | 99L          |   |
| I MM .          | ET 040064              | 250E         |   |
| + UME           | 080883                 | 73L          |   |
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|   |  |
| .OPENU 000044 58L   | · · · · · · · · · · · · · · · · · · ·  |
| •PCHL 002264 221E<br>•P0SIT 000047 61L                            |  |
| •PRINT 000003 40L   |  |
| •READ 000004 41L •REGI 040005 237E                                |  |
| •REGFTR 040035 248E •RENAM 000051 63L                             |  |
| RESET 000204 84L  |  |
| •RNP 002325 223E<br>•SCIN 000001 38L<br>•SCOUT 000002 39L         | ······································ |
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| START 040000 235E<br>SYSRES 000012 47L                            |  |
| .TICCNT 040033 247E<br>.TPERR 002205 220E                         |  |
| .TPERRX 040031 246E<br>.UIVEC 040037 249E                         |  |
| .VERS 000011 46L<br>.WNB 003024 227E                              |  |
| .WNP 003017 226E<br>.WRITE 000005 42L                             |  |
| AC.DLY 000156 608E 1571<br>AIO.CGN 041047 401L                    |  |
| AID.CHA 041116 416L<br>AID.CNT 041111 412L<br>AID.CSY 041050 402L |  |
| AID.CSI 041050 402L<br>AIO.DDA 041041 397E<br>AID.DES 041055 406L |  |
| AID.DEV 041057 407L<br>AID.DIR 041062 410L                        |  |
| AIO.DTA 041053 405L<br>AIO.EOF 041113 414L                        |  |
| AIO.EOM 041112 413L<br>AIO.FLG 041043 398L                        |  |
| AIO.GRT 041044 399L 403L 403L                                     |  |
| AIO.LSI 041052 404L 400L 400L                                     |  |
| AID.TFP 041114 415L<br>AID.UNI 041061 408L                        |  |
| AIO.VEC 041040 396L<br>BAUI 0001327 858 861                       | 8350                                   |
| BAUD 000107′ 856L 984<br>BAUDI 000002 961 983                     |  |
| BELL 000007 95E<br>BKSF 000010 97E                                |  |
| #001.P 000001 376E<br>C.STX 000002 99E                            |  |
| C.SYN 000026 98E<br>CB.CLI 000100 159E 182                        |  |
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| CR+MTLQQQQ4Q                   | 158E          |   |   |   |   |   |
| CB.SPK 000200                  | 160E          |   |   | *******************************         |   | *************************************** |
| CB.SSI 000020                  | 157.Ę         |   |   | • |   |   |
| CB2.CLI 000002                 | 163E          |   |   |   | •                                       |   |
|                                | 164E<br>165E  | • | • | • |   | • |
| CB2.551 000100                 |               |   |   |   |   |   |
| CDB.H84 000001                 | 162E<br>319E  | • | • | • | • | •••••                                   |
| CDB.H85 000000                 | 318E          |   |   |   |   |   |
| CN.170M 000014                 | 200E          |   | *************************************** | *************************************** | • | •••••                                   |
| CN-174M 000003                 | 199E          |   | *********************                   |   |   |   |
| CN.ABO 000200<br>CN.BAU 000100 | 204E          |   | 4                                       |   |   | *************************************** |
| CN.MEM 000040                  | 203E<br>202E  |   |   |   |   | •••••                                   |
| CN+FRI 000020                  | 201E          |   |   |   |   |   |
| CND-H17 000000                 | ···· 2085     | • | •••••                                   | • |   | *************                           |
| CNI+H47 000001                 | 208E          |   |   |   |   |   |
| CMD+ND1 000000                 | 207E          | • |   |   | • | •••••••                                 |
| CO.FLG 000001                  | 471E          |   |   |   |   |   |
| CR 0000015                     |               | 1127 127                                | 77 1286 1416                            |   |   | *************************************** |
| C5.FLG 000200                  | 472E          |   | ******************************          |   |   |   |
| CSL.ECH 000200                 | 448E<br>445E  |   |   |   | *************************************** | *************************************** |
| CSL:RAW 000004                 | 446E          |   | • |   |   |   |
| CSL. WRP 000002                | 447E          |   |   |   |   |   |
| CTLA 000001                    | 108 <u>E</u>  |   | •••••                                   |   |   | *************************************** |
| CTLB 000002                    | 107E          |   |   |   |   |   |
| C1CC 000003                    | 108E          |   | *************************************** | •••••                                   | • | • |
| CTLD 000004                    | 109E          |   |   |   |   |   |
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| CTLF 000020                    | 111E          |   |   |   |   |   |
| CTLS 000023                    | 113E          |   |   |   | • |   |
| CTLZ000032                     | 113E          |   |   |   |   |   |
| CTP.25B 000010                 | 457E          |   |   |   |   |   |
| CTP.BKM.000002                 | ····458E····· |   | •••••                                   |   |   | *************************************** |
| CTF.BKS 000200                 | 453E          |   |   |   |   |   |
| CTP.FF 000100                  | 454E          |   | •••••                                   | • | • |   |
| CTF.MLI 000040                 | 455E          |   |   |   |   |   |
| CTP TATE 000020                | 458E          |   |   |   | • | ••••••                                  |
| CTP.TAB 000001                 | 459E          |   | *************************************** |   |   |   |
| D.FCRT 0040367                 | 266L<br>1437  | 1405 171                                | s: r:                                   |   |   | ••••••                                  |
| D-RAM 040240                   |               | 1485 171                                | . JE.                                   |   |   |   |
| D. VEC 040130                  | 268L          |   |   |   |   |   |
| DE: ABT 000007                 | 1.5AE         |   | • | •••••                                   |   |   |
| DC.CLO 000006                  | 128L          |   |   |   |   |   |
| 0C:FOR000041                   | 1310          | • | • |   | • | •••••                                   |
| DC.MAX 000013                  | 133L          | 1014                                    |   |   |   |   |
| DC+0FR 000013                  | 1300          |   | *************************************** | *************************************** |   | ••••••••••••••                          |
|                                | 125L<br>127L  |   | • |   |   |   |
| DC.OPW 000004                  | 126L          |   |   |   |   |   |
| DC:RDY 000012                  | 1321          |   |   |   |   | • |
| DC.REA 000000                  | 122L          |   |   |   |   |   |
| DC;RER 000002                  | 1241          |   |   | •••••                                   | ••••••                                  | •••••                                   |
| DC.WRI 000001                  | 123L          |   |   |   |   |   |
| DEV-DDA 000004                 | 556L          |   | •••••                                   | • | • | •••••                                   |
|                                | ••••••        |   | •••••                                   |   |   |   |

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| DEV.DVG 000015                   | 569L                   |   |
| ĎĔŶŧĨŶĹŎŎŎŎĨĬ                    | 568£                   |   |
| DEV.FLG 000006                   | 557L                   |   |
| DEV. JAP 000003                  | 555L                   |   |
| DEV.MNU 000010                   | 565L                   |   |
| DEV.NAM 000007<br>DEV.NAM 000000 | 564L<br>547L           |   |
| DEV.RES 000002                   | 5516                   | ······                                  |
| DEV.UNT 000011                   | 566L                   |   |
| DEVELEN 000013                   | 571E                   |   |
| DF.CLR 000376                    | 287E                   |   |
| DF.EMF 000377                    | 286E                   |   |
| DFLT.BD 000030                   | 774E 1717              |   |
| DFL1.CX 000001                   | 783E 1729              | •                                       |
| DFLT.FG 000001                   |                        |   |
| DFLT.FL 000102<br>DFLT.LC 000074 | 779E 1723<br>780E 1725 |   |
| MELTILY 000008                   | ····                   |   |
| DELT. LP 000340                  | 773E 1714              |   |
| DFLT.LX 000001                   | 782E 1727              |   |
| DFLT.WD 000204                   | 778E 1721              |   |
| DIR ALD 000025                   | 302L                   |   |
| DIR.CLU 000015                   | 295L                   |   |
| D1K, CAD 000023                  | 301L                   |   |
| DIR.EXT 000010                   | 290L<br>298L           |   |
| DIR.FLG 000016                   | 296L                   |   |
| bik.Lgn 000021                   | ····299L               | ·····                                   |
| DIR.LSI 000022                   | 300L                   |   |
| DIR.NAM 000000                   | 289L                   |   |
| DIR.FRO 000013                   | 291L                   |   |
| DIR: VER 000014                  | 292L                   |   |
| DIRELEN 000027                   | 304E 410               |   |
| DM.MR 000000                     | 293E<br>172E           |   |
| 100000 WH.MU                     | 173E                   |   |
| DM.RR 000002                     | 174E                   |   |
| IM. RW. 000003                   | 175E                   |   |
| DR.IM 000001                     | 552E                   |   |
| DR.PR 000002                     |                        |   |
| DT,CH 000020                     | 562E                   |   |
| DT.CR 000002                     | 559E                   |   |
| DT.CW 000004<br>DT.OD 000001     | 560E 749               | 752                                     |
| DT.RN 00001                      | 561E                   |   |
| DV.EL 000000                     | 548E                   | ••••••••••••••••••••••••••••••••••••••• |
| DV.NU 000001                     | 549E                   |   |
| DVD.CAP 000007                   | 593L                   |   |
| DVD.DVD 000006                   | 592L                   |   |
| DAD ENT 005000                   | 602E 994               | 1013                                    |
| DVD.INF 000023                   | 598L                   |   |
| DVD . MNU 000011                 | 595L                   |   |
| DVD.MUM 000010                   | 594L<br>597L           |   |
| DVD.STE 000022                   |                        | 901                                     |
| DVD.UFL 000012                   |                        | 801                                     |
| DVDFLV 000307                    |                        | 754                                     |
| EC.CNA 000004                    | 489L                   | · · · · · · · · · · · · · · · · · · ·   |
| *****                            |                        |   |
|                                  |                        |   |

|          |          | TVERY H-24" |   |   | XREF V1.1                               |
|----------|----------|-------------|---|---|---|
| CRUSSK   | EFEKENLE | TABLE       | •••••                                   | ••••••                                  |   |
| EC.DDA   | 000027   | 508L        | 10.62                                   |   |   |
| EC.DIF   |          | 500L        |   |   | *************************************** |
| EC.DIW.  |          | 514L        |   |   |   |
|          | 000045   | 522L        | • • • • • • • • • • • • • • • • •       | *************************************** |   |
| EC.DNR   |          |             |   |   |   |
| EC.DNS   | 000005   | 490L        | 1046                                    | *************************************** |   |
| EC.DSC   | .000047  | E0.41       |   |   |   |
| EC.EOF   | 000001   | 486L        |   | *************************************** | *************************************** |
| EC.EOM.  | 000002   | 487L        |   |   |   |
| EC.FAO   | 000031   | 510L        | ,                                       |   | *************************************** |
| EC.FAP   | 000026   | 507L        |   |   |   |
| EC.FL    | 000030   | 509L        |   | *************************               | *************************************** |
| EC.FNF   | 000014   | 497L        |   |   |   |
| EC.FNO   | 000011   | 494L        |   |   | *************************************** |
| EC.FNR   | 000034   | 513L        |   |   |   |
| EC.FOD   | 000043   | 520L        | • | *************************************** | *************************************** |
| EC.FUC   | 000013   | 496L        |   |   |   |
| EC.ICN   | 000016   | 499L        | •••••                                   | • |   |
| EC.IIN   | 000006   | 491L        |   |   |   |
|          | 000050   | 501L        |   | *************************************** | *************************************** |
| EC.IFN   | 000007   | 492L        |   |   |   |
| ECTIFC.  | 000003   | 488L        |   | *************************************** |   |
| EC.ILO   | 000040   | 517L        | 812                                     |   |   |
| ECTER"   | 000012   | 495L        | 1029                                    |   |   |
|          | 000037   | 516L        | 865                                     | 902                                     |   |
| EC.101   | 000052   | 527L        | •••••                                   | ••••                                    | *************************************** |
| EC.18    | 000032   | 511L        |   |   |   |
| EC!NGA   | 000050   | 525L        | *************                           |   |   |
|          | 000021   | 502L        |   |   |   |
| ECTNOS.  | 000051   | 526L        | • | ********************************        | *************************************** |
|          | 000044   | 521L        |   |   |   |
| ECTARD   | QOQOLO   | 493L        | •••••                                   | *************************************** |   |
|          | 000042   | 519L        |   |   |   |
|          | 000023   | 528L        | • | *************************************** | *************************************** |
|          | 000022   | 503L        |   |   |   |
| EC:UNA   |          | 515C        | 1100                                    | (1531194                                |   |
|          | 000015   | 498L        |   |   |   |
| EC! DAY. |          | 21.50       | 816                                     | ******************************          | *************************************** |
|          | 000041   | 518L        |   |   |   |
|          | 909053   | 504L        | ,                                       |   |   |
|          | 000025   | 506L        |   |   |   |
| EC.MEO   |          | 5050        |   |   |   |
|          | 000212   | 104E        | 927                                     |   |   |
|          | 202033   | 102E        |   | (418                                    |   |
| F.FORM   | 000001   | 769E        | 776                                     | 941 941 945                             | 1203                                    |
|          | 000014   | 105E        | 1215                                    | (241 1266                               |   |
|          | 042231   | 830E        | 978                                     |   |   |
|          | 202020   | 941         | 945                                     | 977E                                    |   |
|          | 000000   | 1E          | 1442                                    | 1488 1524                               |   |
|          | 0002047  |             | 990                                     |   |   |
|          | 000004   | 967         | 989E                                    |   |   |
| T.CONFL. |          | 474E        | 475                                     |   |   |
| I.CONTY  |          | 461E        | 462                                     |   |   |
| I COMMI  |          | 467E        | 468                                     |   |   |
| I.CSLMD  | 000000   | 450E        |   |   |   |
| TICUSOR  |          | 464E        | 465                                     |   |   |
|          | 0033021  | 1116        | 1539E                                   | v.c                                     |   |
| N        | 004012   | 1210        | 1363                                    | 445 1449 1495                           | 1570 1574 1633E                         |
|          |          |             |   |   |   |

| THOOS LPI DE          | VÍCE DRÍ            | VER, H-24 (   | TT 810)                                 |   |   |   |   | XRÉF Vi                                 | . i                                     |   | • |   | • | • |
|-----------------------|---------------------|---------------|---|---|---|---|---|---|---|---|---|---|---|---|
| CROSS REF             | ERENCE T            | ABLE          |   |   |   |   |   | PAGE                                    | 46                                      |   |   |   | •••••                                   |   |
| IN.ADD O              | 040207              | 1636          | 1638E                                   |   |   |   |   |   |   |   |   |   |   |   |
| INCI                  | 832317              | 1447          | 1465L                                   |   |   |   |   |   |   | • |   |   | • • • • • • • • • • • • •               |   |
|                       | 032321              | 1450          | 1.467L                                  |   |   |   |   |   |   |   |   |   |   |   |
|                       | 032027              | 1435E         | 4 4 4 77                                |   |   |   |   |   |   |   |   |   |   |   |
|                       | 03160′<br>03173′′′  | 1408L<br>1398 | 1413<br>1407                            | 1415L                                   |   |   |   |   | • | • • • • • • • • • • •                   |   |   |   |   |
|                       | 03175               | 1403          | 1416L                                   | 14100                                   |   |   |   |   |   |   |   |   |   |   |
| ·····ÎNÎTLP···o       |                     | î ržĕ         | 1387Ē.                                  | • |   |   |   | ************                            | • | • |   | • | • | • |
| IP.CON O              |                     | 148E          |   | . <b></b>                               |   |   |   |   |   |   |   |   |   |   |
| TP: PAD O             |                     | 144E          |   |   |   |   |   |   |   |   |   |   |   |   |
|                       | 00012               | 92E           | 1288                                    |   |   |   |   |   |   |   |   |   | . <b></b>                               |   |
| LPABBRT 0<br>LPC1 0   | 02032               | 1025<br>1210L | 1026<br>1212                            | 1080E                                   |   |   |   |   |   |   |   |   |   |   |
| โค่ธีโฮร∵อั           |                     | iījž          | *************************************** | • • • • • • • • • • • •                 |   |   |   |   |   |   | • | • • • • • • • • • • • • • •             |   |   |
| LPELOSE 0             |                     | 1024          | 1061                                    | 1191E                                   |   |   |   |   |   |   |   |   |   |   |
|                       | 02000,              | 1012E         |   |   |   |   |   |   |   | ,                                       | • |   |   | • |
| LPDVD1 0              |                     | 1015          | 1029L                                   |   |   |   |   |   |   |   |   |   |   | <del>.</del>                            |
|                       | 00136,              | 874E          | 987                                     |   |   |   |   |   |   |   |   |   |   |   |
|                       | 03144′<br>00200'··· | 1394<br>878   | 1398L<br>882                            | 886                                     | 889                                     |   | 902L                                    |   |   |   | ,                                       |   | • • • • • • • • • • • • •               |   |
|                       | 00003               | 964           | 986E                                    | 000                                     | 007                                     | 07&                                     | 702L                                    |   |   |   |   |   |   |   |
| CPCDADD 6             |                     | 1027          | 1078E                                   |   |   |   | • | • • • • • • • • • • • • •               | • • • • • • • • • • • • •               | • | • | •••••                                   |   | • |
| LPNSUIT 0             |                     | 1018          | 1020                                    | 1021                                    | 1023                                    | 1045E                                   |   |   |   |   |   |   |   |   |
| LEDEENM O             |                     | 1022          | 1096E                                   |   |   |   |   |   |   |   |   |   |   |   |
|                       | 022651              | 1242          | 1252L                                   | · · · ›: ›: A'2'At · ·                  |   |   |   |   |   |   |   |   |   |   |
|                       | 02326′<br>02312'··· | 1256<br>1269L | 1259<br>1275                            | 1282L                                   |   |   |   |   |   |   |   |   |   |   |
|                       | 02347               | 1266          |   |   |   | • | • |   |   |   | • | • |   | • |
|                       | 023671              | 1278          | 1284L                                   |   |   |   |   |   |   |   |   |   |   |   |
| ሲዮዕፕታ ዕ               | 0 <b>3</b> 020''''  | 1285          | 1295L                                   |   |   |   |   |   |   |   |   | • | • |   |
| LP077.5 0             |                     | 1304          | 1311L                                   |   |   |   |   |   |   |   |   |   |   |   |
|                       | 03065               | 1296          | 1298                                    | 1317L                                   |   |   |   |   |   |   |   |   |   |   |
| LPOT9 0<br>CPOUTCH::0 | 030701<br>Nobahii   | 1247          | 1272<br>1164                            | 1282<br>1237E                           | 1293<br>1261                            | 1319L<br>1288                           | 1274                                    | 1287                                    | 1289                                    | 1309                                    |   |   |   |   |
|                       | 02133'              | 1156L         | 1167                                    | 123/6                                   | 1501                                    | 1200                                    | 12/4                                    | 1287                                    | 1787                                    | 1309                                    |   |   |   |   |
|                       | 021567              | 1162          | <u>1</u> 1995                           | • • • • • • • • • • •                   | • | • • • • • • • • • • • • •               |   | • |   | • |   | • | • | • |
| LPWRITE 0             |                     | 1019          | 1149E                                   |   |   |   |   |   |   |   |   |   |   |   |
|                       | 00303               | 192E          |   |   | • | · · · · · · · · · · · · · · · · · · ·   |   |   |   |   |   |   |   |   |
|                       | 00021               | 191E          | , , , , ,                               |   |   |   |   |   |   |   |   |   | • • • • • • • • • • •                   |   |
| NL Ó                  | 00012               | 103E<br>924   | 104                                     | 917                                     | 917                                     | 917                                     | 917                                     | 918                                     | 919                                     | 920                                     | 921                                     | 922                                     | 923                                     |   |
| NUL2                  | 00000               | 94E           | 925                                     | 926                                     | 927                                     | 1284                                    | 1308                                    |   | • | • |   | • • • • • • • • • • • • •               | • • • • • • • • • • •                   |   |
|                       | 00200               | 93E           |   |   |   |   |   |   |   |   |   |   |   |   |
| ዕ⊭ኁሮተĽዕ               | QQ <u>3</u> 90      | 145E          |   |   |   |   |   |   |   |   | • | • | • • • • • • • • • • • •                 | ••••••                                  |
| OP.DIG O              |                     | 146E          |   |   |   |   |   |   |   |   |   |   |   |   |
| OP.SEG 0              |                     | 147E          |   |   |   |   |   |   |   |   |   |   | .,                                      |   |
| OP2.CTL O<br>OFTTAB O |                     | 149E          | 938L                                    |   |   |   |   |   |   |   |   |   |   |   |
| OPTTABE O             |                     | 938           | 938L<br>970I                            |   |   |   |   |   |   |   |   |   |   |   |
| ·····ŏù†·ˈˈ···ŏ       |                     | 1122          | ····1213                                | 1500                                    | 1546                                    | 1549                                    | 1552···                                 | 1555                                    | 1559                                    | 1548                                    | 1576                                    | 1654E                                   | • • • • • • • • • • • • •               |   |
| OUT.ADD O             |                     | 1658          | 1661E                                   |   |   |   |   |   |   |   |   |   |   |   |
| ουταο                 | 03247               | 1492L         | 1497                                    |   | • |   |   |   | • |   | ••••••                                  | • • • • • • • • • • • •                 | • | •••••                                   |
|                       | 032771              | 1494          | 1520L                                   |   |   |   | . <b></b>                               |   |   |   |   |   |   |   |
| OUTE2 O               |                     | 1501          | 1522L                                   |   |   |   |   |   |   |   |   |   |   |   |
| OUTCHAR O             |                     | 1243          | 1279                                    | 1317                                    | 1411                                    | 1481E                                   |   |   |   |   |   |   | <b>.</b>                                |   |
| OVL.IN O              |                     | 343E<br>345E  |   |   |   |   |   |   |   |   |   |   |   |   |
| OVL.RES O             |                     | 344E          |   |   |   |   |   |   |   |   |   |   |   | ,                                       |

| HDOS LPT DEVICE DRIVE             |              | L1.810)                                 |   |   |   | ,                                       | XREF VI                                 | ·i······                                | •••••                                   | ••••••                                  |   |
|-----------------------------------|--------------|---|---|---|---|---|---|---|---|---|---|
| CROSSREFERENCE_TAI                | BLE          |   |   |   |   |   | .P.AGE 4                                | 7                                       |   |   |   |
| DVL.UCS 000200                    | 346E         |   |   |   |   |   |   |   |   |   |   |
| PIC.COD 000006                    | 540L         | 590                                     |   | ••••••                                  | • • • • • • • • • • • • •               |   | ***********                             |   |   | • |   |
| PIC.ID 000000                     | 535L         |   |   |   |   | • • • • • • • • • • • • •               |   |   |   |   |   |
| PIC.LEN 000002<br>PIC.FIR 000004  | 537L<br>538L |   |   |   |   |   |   |   |   |   |   |
| PRCTAB 001342'                    | 806          | 975L                                    | 977                                     | 980                                     | 983                                     | 986                                     | 989                                     |   | •••••                                   |   |   |
| QUOTE 000047                      | 100E         | ,                                       |   |   |   |   |   |   |   |   |   |
| ROMBOOT 030000<br>RUBOUT 000177   | 261E         | 1207                                    |   |   |   |   |   |   |   |   |   |
| S.BAUD 040344                     | 96E<br>320L  | 1297                                    | • | • | • • • • • • • • • • • • •               |   | • | •••••                                   | • |   |   |
| S.BDA 041120                      | 418L         |   |   |   |   |   |   |   |   |   |   |
| S.BOOTF 041034                    | 375L         | 4444                                    |   |   |   |   |   |   | • | ••••••                                  |   |
| S.CADR 040333<br>S.CACC 041006    | 478L<br>359L | 1160                                    | 1356                                    | 1492                                    |   |   |   |   |   |   |   |
| S.CCTAB 040335                    | 479L         |   |   |   |   |   |   |   |   |   |   |
| S.CDB 040343                      | 317L         |   |   |   | • • • • • • • • • • • • •               | • • • • • • • • • • • • • •             |   | *************************************** | •••••••••                               | •••••                                   | ***************                         |
| S.CFWA 040352<br>S.CODE 041007    | 327L         | .,                                      |   |   |   |   |   |   |   |   |   |
| S.CONFL 040332                    | 360L<br>476L |   |   |   |   |   |   |   |   |   |   |
| S.CONTY 040327                    | 463L         | •••••                                   | • |   | •••••                                   | •••••                                   | • | •••••                                   | • | • |   |
| S.CONWI 040331                    | 469L         | ,,,                                     | ,                                       |   |   |   |   |   |   |   |   |
| S.CSLMD 040326<br>S.CUSOR 040330  | 451L<br>466L | 462                                     | 465                                     | 468                                     | 475                                     |   |   |   |   | .,.,.,                                  |   |
| S.DATC 040310                     | 432L         |   | • | • • • • • • • • • • • • • •             | • |   | • | • |   |   |   |
| S.DATE 040277                     | 431L         |   |   |   |   |   |   |   |   |   |   |
| S.DCS 041033                      | 373L         |   |   | • |   | • |   |   | • |   | *************                           |
| S.DDDTA 040366<br>S.DDGRF 040364  | 338L         |   |   |   |   |   |   |   |   |   |   |
| S.DDLDA 040360                    | 333L         |   |   |   |   |   |   |   |   |   | •                                       |
| S.DDLEN 040362                    | 334L         |   | • | • | • • • • • • • • • • • • •               | • | • | • | • | •••••                                   |   |
| \$.DDDPC 040370<br>\$.DFWA 040354 | 339L         |   |   | ,                                       |   |   |   |   |   |   |   |
| S.DIREA 041016                    | 328L<br>367L |   |   |   |   |   |   |   | *                                       |   |   |
| S.DLINK 040346                    | 325E         | •••••••                                 | • | •••••                                   | • |   |   | •••••                                   | • |   |   |
| S.FASER 041013                    | 366L         |   |   |   |   |   |   |   |   |   |   |
| S.FCI 041021<br>S.GRTO 024000     | 368L<br>257E |   |   |   |   |   |   | *************************************** | • |   |   |
| \$.GRT1 025000                    | 258E         |   | • • • • • • • • • • • • •               |   |   |   |   |   |   |   |   |
| S.GRT2 026000                     | 259E         |   |   |   |   |   |   |   |   |   |   |
| 5.GUP 041027                      | 370L         |   | • | ••••                                    | • | • • • • • • • • • • • • •               | • | ******************                      |   | • | ••••••                                  |
| S.HIMEM 040316<br>S.INT 040343    | 434L<br>271L | 313                                     |   |   |   |   |   |   | • |   |   |
| S.JUMPS 041010                    | 364L         | 919                                     |   |   |   |   |   |   |   |   |   |
| S. HOUNT 041032                   | 372L         |   |   | • • • • • • • • • • • • •               | • | •••••                                   |   | • | • | • | •••••                                   |
| S.DFWA 040350<br>S.DMAX 040324    | 326L         |   |   |   |   |   |   |   |   |   |   |
| 5.0SN 041004                      | 355L         |   |   |   |   |   |   |   | ,                                       |   |   |
|                                   | 352L         |   | • | • |   | • |   | • |   | • |   |
| S.DVLFL 040371                    | 348L         |   |   |   |   |   |   |   |   |   |   |
| \$.0VLS 040376<br>\$.0VSTK 041035 | 351L         |   |   |   |   |   | • | • | •••••                                   |   | •••••                                   |
| 5.RFWA 041033                     | 380L<br>329L | • | • | • |   |   |   |   |   | **********                              |   |
| S.SCI 041024                      | 369L         |   |   |   |   |   |   |   |   |   |   |
| S.SCR 041121                      | 419L         | • | • |   |   |   | • • • • • • • • • • • • • •             | • | • |   | • |
| S.SDD 041010<br>S.SOVR 041146     | 365L<br>273L |   | ······                                  |   |   |   | ,                                       | • | **************                          |   |   |
| S.SSN 041002                      | 273L<br>354L |   |   |   |   |   |   |   |   |   |   |
| 5.5YSH 040320                     | 436          | ••••••                                  | • | • • • • • • • • • • • • •               |   |   |   | • |   |   |   |
| <u> </u>                          |              |   |   |   |   |   |   |   |   |   |   |
|                                   |              |   |   |   |   |   |   |   | •••••                                   | ****************                        | *************************************** |

|         | EVICE DRIVE<br>FERENCE TAI |              |                           |  |   |   |   | XREF VI.1<br>PAGE 48                    |   |   |   |   |
|---------|----------------------------|--------------|---------------------------|--|---|---|---|---|---|---|---|---|
| •       |                            |              |                           | * (%, * , * , <b>*</b> , * * * * * * * * * * * * * * * * * * |   |   |   |   |   |   |   |   |
| S.TIME  | 040312                     | 433L<br>349L |                           |  |   |   |   |   |   |   |   |   |
| S.UCSF  | · ·                        |              |                           |  |   |   |   |   |   |   |   |   |
|         | 040374<br>040322           | 350L<br>438L |                           |  |   |   |   |   |   | • |   |   |
|         | 040277                     | 270L         | 429                       |  |   |   |   |   |   |   |   |   |
| SC.ACE  |                            | <u>2</u> 85£ |                           | •                      | • |   |   |   | • | • |   |   |
| SC.UART | 000372                     | 676E         |                           |  |   |   |   | ********                                |   |   |   |   |
|         | 000103                     | 803          | 812F                      | *********  |   |   | ,                                       |   |   |   | • | ,                                       |
|         | 0000531                    | 800E         |                           |  |   |   |   |   |   |   |   | • |
|         | 042200<br>001032           | 277E<br>275E |                           |  |   |   |   |   |   |   |   |   |
|         | 040130                     | 267E         |                           |  | • • • • • • • • • • •                   |   |   |   |   |   |   |   |
| SYSCALL |                            | 30E          |                           |  |   |   |   |   |   |   |   |   |
|         | 000011                     | 101É         | 1265                      |  |   | • |   |   |   |   | • | •••••                                   |
|         | 0040341                    | 1106         | 1198                      | 1200   | 1337                                    | 1710E                                   |   | *****************                       |   |   |   |   |
| TLP.BAU |                            | 862          | 1115                      | 1717L  |   |   |   |   |   |   |   |   |
| TLP.CX  |                            | 1109         | 1246                      | 1269   | 1281                                    | 1306                                    | 1311                                    | 1313 1729L                              |   | · · · · · · · · · · · · · · · · · · ·   |   |   |
| TLP.FLG |                            | 942          | 746                       | 1202   | 1712C                                   |   |   |   |   |   |   |   |
| TLP.LC  |                            | 953<br>950   | 1254<br>1402              | 1725L<br>1723L   |   | • | • • • • • • • • • • • • •               | • | • |   | • |   |
| TLP.LPI |                            | 896          | 1391                      | 1723L<br>1719L   |   |   |   |   |   |   |   |   |
| TLP.LX  |                            | 1108         | 1245                      | 1257   | 1290                                    | 1292                                    | 1727L                                   | *************************************** |   |   |   |   |
| TLP.POR |                            | 956          | 1114                      | 1118   | 1206                                    |   | 1714L                                   | 1715                                    |   |   |   |   |
| TLP.UNA |                            | 1706E        |                           |  |   |   |   |   |   |   | • |   |
| TLP.UNT |                            | 1708L        | 1710<br>1302              |  |   |   |   |   |   | · · · · · · · · · · · · · · · · · · ·   |   |   |
| TLP.WID |                            | 959          |                           | 1721L  |   |   |   |   |   |   |   |   |
|         | 000004<br>000000           | 633E<br>629E | 1565                      | 1566   |   |   |   |   |   |   |   |   |
|         | 000001                     | 630E         |                           |  |   |   |   |   |   |   |   |   |
|         | 000002                     | 631E         | • • • • • • • • • • • • • | •••••  | • • • • • • • • • •                     |   | • |   |   |   |   | • |
|         | 000003                     | 632E         | 1567                      |  |   |   |   |   |   |   |   |   |
|         | 000020                     | 652E         |                           | ,  |   |   | • |   | • |   |   | ••••••                                  |
|         | 000020                     | 661E         | 1364                      |  |   |   |   |   |   |   |   |   |
|         | 000001                     | 657E         |                           |  |   |   |   |   |   |   | •                                       |   |
|         | 000002                     | 658E         |                           |  | · · · · · · · · · · · · · · · · · · ·   |   |   |   |   |   |   |   |
|         | 000200<br>000001           | 638E<br>648E | 1551                      |  |   |   |   |   |   |   |   |   |
|         | 000010                     | 640E         | 1446                      | • • • • • • • • • • • •                                      |   | ,                                       |   | • |   |   | • |   |
|         | 000040                     | 662E         |                           |  |   |   |   |   |   |   |   |   |
|         | 000001                     | 641E         | 1121                      | •                      | • • • • • • • • • • • • •               |   |   | • |   |   |   |   |
| UC.EDA  | 000001                     | 619E         |                           |  |   |   |   |   |   |   |   |   |
|         | 000020                     | 635E         | , ,                       |  |   |   | ,                                       |   |   |   |   |   |
|         | 000010                     | 651E         |                           |  |   |   |   |   |   |   |   |   |
|         | 000006<br>000001           | 626E<br>625E |                           |  |   |   |   |   |   |   |   |   |
|         | 000020                     | 645E         | 1548                      | 1575   |   |   |   | •••••                                   |   | • |   |   |
|         | 000010                     | 622E         | 1340                      | 13/3   |   |   |   |   |   |   |   |   |
|         | 000002                     | 649E         |                           | •                      | • |   | • | ·····                                   | • | • | •••••                                   |   |
|         | 000004                     | 643E         |                           |  |   |   |   |   |   |   |   |   |
| UC.0U2  | 000010                     | 644E         | 1121                      |  | •••••                                   |   | ,,                                      |   |   |   |   |   |
|         | 000004                     | 650E         |                           |  |   |   |   |   |   |   |   |   |
|         | 000010                     | 634E         |                           |  |   |   |   |   |   |   |   |   |
|         | 000100                     | 663E         |                           |  |   |   |   |   |   |   |   |   |
|         | 000200<br>000004           | 664E<br>621E |                           |  |   |   |   |   |   |   |   |   |
|         | 000002                     | 642E         | 1121                      | • • • • • • • • • • • •                                      |   |   | • • • • • • • • • • • •                 | • |   |   | • | • |
|         | 000100                     | 637E         | <b></b>                   |  |   |   |   |   |   |   |   |   |
| UC.SKP  |                            | 636E         |                           |  |   |   | • • • • • • • • • • • •                 |   |   | • • • • • • • • • • • • • • • •         |   | • |

| HDOS (LF) DEVICE BRIVER, H-  |             | XREF V1.1                               |
|--|-------------|---|
| CROSS REFERENCE TABLE  | *********** |   |
| HC TES ASSASS  |             |   |
| UC.TER 000004 659  | E 1211 14   | 496                                     |
| UC.TRE 000002 620  | E 1211 14   | 470                                     |
| UC.TSE 000100 654  |             |   |
| UCI.ER 000020 698  |             |   |
| UCI.IE 000002 700  | Ĕ           |   |
| UCI.IR 000100 696  | E           |   |
| UCY - RE 000004 699  |             |   |
| UCI.RD 000040 697  |             |   |
| UC1.TE 000001 701  |             |   |
| UDR 000000 673   |             |   |
| the contract of the contract o |             |   |
| UMI.1B 000100 681  | E.          | ·····                                   |
| UMI.2B 000300 683  |             |   |
| UMI.64X 000003 692   |             |   |
| UMI.HB 000200 682  |             |   |
| 0M1.L5 000000 888  | E           |   |
| UMI+L6 000004 687  |             |   |
| UMT.L7 000010 688  |             |   |
| UMI.L8 000014 689  |             |   |
| UMI.FE 000040 684  |             |   |
| 1098 1070727 1098  |             | [93 1335£                               |
| UNT.DIS 000006 581   |             | 1335                                    |
| UNT:FLG 000000 577   |             |   |
| UNT.GRT 000002 579   |             |   |
| UNT.GTS 000004 580   |             | ••••••••••••••••••••••••••••••••••••••• |
| UNT.SIZ 000010 583   |             |   |
| UNT.SPG 000001 578   |             |   |
| U0.CLK 000001 184  |             |   |
| U0.DDU 000002 183<br>U0.HLT 000200 181   |             |   |
| UO.NFR 000100 181  |             |   |
| UR.DLL 000000 614  |             |   |
| UR.DLM000001   |             |   |
| UR.IER 000001 618  |             |   |
| UR:11R 000002 624  | L           |   |
| UR.LCR 000003 628  |             |   |
| URILSR 000005 647  |             |   |
| UR MCR 000004 6401<br>UR MSR 000006 656  |             | 47 1573                                 |
| UR-MSR 000006 656  |             | 40                                      |
| UR:THR 000000 810  |             |   |
| USERFWA 042200 278   |             | **                                      |
| USR 000001 6746  |             |   |
| USR.BD 000100 705  |             |   |
| USR: FE 000040 706   |             |   |
| USR.0E 000020 707  |             |   |
| USR; PE 000010 708   |             |   |
| USR.RXR 000002 7108  |             |   |
| USR TXR 000001 7118  |             |   |
| VAL 042234 8398  |             | ••••••••••••••••••••••••••••••••••••••• |
| VALI 000001 949  |             | 55 958 980E                             |
| VERS 000040 286  | <del></del> | AT                                      |
| WAIT 003100' 13538   |             |   |
| WA170 0031017 1356L  | 1365        |   |
| ***************************************  | ********    |   |
|  |             |   |

| HDOS LP: DEVICE DRIVER, H-24 (TI 810)<br>GROSS REFERENCE TABLE | XREF VI.1<br>PAGE 50                   |
|--|--|
| WAIT3 003126′ 1358 1367L                                       |  |
| 25174 BYTES FREE   |  |
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