100 IDENT ASYLCU P855 ASM PAGE 1

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00000                          IDENT    ASYLCU                                                    ASM 04
00001                  *
00002                  *   VERSION:  21-04-'75 .
00003                  *
00004                  *        THIS PROGRAM IS AN ECHO TEST FOR THE ASYLCU
00005                  *        THE HARDWARE CONFIGURATION IS AS FOLLOWS:
00006                  *          P855-ASYLCU-MODEM-LINE-MODEM-V24ASR
00007                  *        THE INPUT ON THE ASR IS TERMINATED WITH "CR"
00008                  *        AND SENT BACK IMMEDIATELY ON THE LINE
00009                  *
00010                  *        ADDRESS OF ASYLCU: /27
00011                  *        INTERRUPT CONNECTION:LEVEL 06
00012                  *
00013                  *
00014  0000                     RES      9
00015  0012            STACK    RES      1
00016  0014            BUF      RES      100
00017                  ASYLCU   EQU      /27
00018                  *
00019  00DC  20BF      START    INH
00020  00DE  87A0               LDKL     A15,STACK          PRESET STACKPOINTER
       00E0  0012  R
00021  00E2  8120               LDKL     A1,INT
       00E4  0000  F
00022  00E6  8141               ST       A1,/4C             LOAD INT. CONTROL ADDRESS
       00E8  004C
00023  00EA  8120      CLBUF    LDKL     A1,0
       00EC  0000
00024  00EE  8220               LDKL     A2,198
       00F0  00C6
00025  00F2  8149               ST       A1,BUF,A2          CLEAR BUFFER
       00F4  0014  R
00026  00F6  1A02               SUK      A2,2
00027  00F8  5E08               RB(6)    *-6
00028  00FA  8320      INPUT    LDKL     A3,BUF             A3=BUFFER POINTER
       00FC  0014  R
00029  00FE  01C2               LDK      A1,/C2             CIO "IN"; NO PARITY
00030  0100  41E7               CIO      A1,1,ASYLCU
00031  0102  5002               RF(0)    *+4
00032  0104  207F               HLT                         CIO NOT ACCEPTED!
00033  0106  0201               LDK      A2,1               SET INPUT FLAG
00034  0108  2840               ENB
00035  010A  8208               LDR      A2,A2              WAIT FOR INTERRUPT
00036  010C  5C04               RB(4)    *-2
00037  010E  20BF               INH
00038  0110  8320      OUTPUT   LDKL     A3,BUF
       0112  0014  R
00039  0114  0142               LDK      A1,/42             CIO "OUT"; NO PARITY
00040  0116  41E7               CIO      A1,1,ASYLCU
00041  0118  5002               RF(0)    *+4
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00042  011A  207F            HLT
00043  011C  0503            LDK     A5,3        CIO NOT ACCEPTED
00044  011E  0600            LDK     A6,0        DELAY OF ABOUT
00045  0120  1601            ADK     A6,1        0.9 SECOND .
00046  0122  5C04            RB(4)   *-2         (RESPONSE TIME OF
00047  0124  1D01            SUK     A5,1        CT106 TO CT 105 ;
00048  0126  5C0A            RB(4)   *-8         ABOUT 700 MSEC.)
00049  0128  2840            ENB
00050  012A  8208            LDR     A2,A2
00051  012C  5804            RB(0)   *-2         WAIT FOR INTERRUPT
00052  012E  5F46            RB      CLBJF
00053                  *
00054                  *       INTERRUPT ROUTINE
00055                  *
00056  0130  49E7    INT     SST     A1,ASYLCU
00057  0132  5400  F         RF(4)   IO
00058  0134  8404            LDR     A4,A1
00059  0136  A420            ANKL    A4,/0020
       0138  0020
00060  013A  EC20            CWK     A4,/0020
       013C  0020
00061  013E  5002            RF(0)   *+4
00062  0140  207F            HLT
00063  0142  A120            ANKL    A1,/0007    NO CARRIER; CT109 LOW !!
       0144  0007
00064  0146  E920            CWK     A1,0
       0148  0000
00065  014A  5002            RF(0)   *+4
00066  014C  207F            HLT
00067  014E  F03E    RETURN  RTN     A15         ERROR;OBSERVE STATUS IN A1
00068  0150  8208    IO      LDR     A2,A2
00069  0152  5000  F         RF(0)   OUTP
00070  0154  4927    INP     INR     A1,0,ASYLCU
00071  0156  5002            RF(0)   *+4
00072  0158  207F            HLT
00073  015A  E12D            SCR     A1,A3       INR NOT ACCEPTED!
00074  015C  1301            ADK     A3,1
00075  015E  E920            CWK     A1,/8D      /8D=CARRIAGE RETURN.
       0160  008D
00076  0162  5C16            RB(4)   RETURN
00077  0164  0100            LDK     A1,0
00078  0166  41E7            CIO     A1,1,ASYLCU CIO HALT
00079  0168  5002            RF(0)   *+4
00080  016A  207F            HLT                 CIO HALT NOT ACCEPTED!
00081  016C  49E7            SST     A1,ASYLCU   WAIT FOR
00082  016E  5C04            RB(4)   *-2         WST STATUS .
00083  0170  0200            LDK     A2,0        RESET INPUT FLAG
00084  0172  5F40            RB      INT+4
00085  0174  E12C    OUTP    LCR     A1,A3
00086  0176  4127            OTR     A1,0,ASYLCU
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00087  0178  5002          RF(0)   *+4
00088  017A  207F          HLT                    OTR NOT ACCEPTED!
00089  017C  1301          ADK     A3,1
00090  017E  E920          CWK     A1,0           BLANK CHARACTER?
       0180  0000
00091  0182  5C36          RB(4)   RETURN
00092  0184  0100          LDK     A1,0
00093  0186  41E7          CIO     A1,1,ASYLCU    CIO HALT
00094  0188  5002          RF(0)   *+4
00095  018A  207F          HLT                    CIO HALT NOT ACCEPTED!
00096  018C  49E7          SST     A1,ASYLCU      WAIT FOR
00097  018E  5C04          RB(4)   *-2            WST STATUS .
00098  0190  0201          LDK     A2,1           SET INPUT FLAG
00099  0192  5F60          RB      INT+4
00100                      END     START
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