P852/6/7

```
                        IDENT ALCU4                                                    ASM 04
                       *
                       *TEST LOOP ASYNCHRONOUS CONTR. UNIT
                       *RUNS WITH INTERRUPT.
                       *
                       **VARIABLE DEVICE ADDRSSES AND INT. LEVELS
                       ***********************************************************************
0000                           RES      /100
0200  20BF             START   INH
0202  87A0                     LDKL     A15,/150
0204  0150
0206  80A0                     LDKL     A8,/0809
0208  0809
020A  81A0                     LDKL     A9,/1819              INT LEVEL 1&2
020C  1819
                       *
                       *CLEAR I/O BUFFERS
                       *
020E  83A0                     LDKL     A11,/FFC0
0210  FFC0
0212  84A0                     LDKL     A12,CIOST1
0214  0000  F
0216  A3B3             CLEAR   ANRS     A11,A12
0218  94A0                     ADKL     A12,2
021A  0002
021C  ECA0                     CWK      A12,SST2+2
021E  0000  F
0220  5C0C                     RB(4)    CLEAR
0222  207F                     HLT
                       *
                       *LOAD IN A8 THE DEVICE ADDRESSES
                       *BIT 02-07, DEVICE ONE (TRANSMITTER)
                       *BIT 10-15, DEVICE TWO (RECEIVER)
                       *
                       *LOAD IN A9 THE INTERRUPT LEVELS.
                       *BIT 02-07, DEVICE ONE.
                       *BIT 10-15, DEVICE TWO.
                       *
                       *LOAD CHAR TO BE TRANSMIT IN A5
                       *
                       *LOAD BLOCK LENGTH IN A6
                       *
                       *FOR TESTING CONNECT THE CONTROL UNIT TO THE TEST BOX,
                       *SELECT THE RIGHT SPEEDON THE TESTBOX.
                       *
                       *OR CONNECT BOTH CONNECTORS IN A PROPER WAY TOGETHER
                       *(CT105,106,108,107)
                       *(CT103, 104.)
                       *
                       *OR LOOP WITH TWO MODEMS.
```

```
                        *
                        *
                        ******************************************:
0224  8382                      LDR     A11,A8
0226  8120                      LDKL    A1,CIOST2
0228  0000  F
022A  A3A0                      ANKL    A11,/3F
022C  003F
022E  93A5              CALC    ADRS    A11,A1                  CALCULATE DEVICE ADDRESS.2
0230  9120                      ADKL    A1,2
0232  0002
0234  E920                      CWK     A1,SST2+2
0236  0000  F
0238  5C0C                      RB(4)   CALC
023A  8120                      LDKL    A1,CIOST1               CCCALCULATE DEVICE ADDRESS 1.
023C  0000  F
023E  E382                      ECR     A11,A8
0240  A3A0                      ANKL    A11,/3F
0242  003F
0244  93A5                      ADRS    A11,A1
0246  1102                      ADK     A1,2
0248  E920                      CWK     A1,SST1+2
024A  0000  F
024C  5C0A                      RB(4)   *-8
                        *CALCULATION OF INTERRUPT LEVELS.
024E  8106                      LDR     A1,A9                   CALCULATE INTERRUPT LEVEL
0250  213F                      ANK     A1,/3F
0252  3941                      SLL     A1,1
0254  84A0                      LDKL    A12,INTB
0256  0000  F
0258  84A5                      STR     A12,A1
025A  E106                      ECR     A1,A9                   CALCULATE INT. LEVEL 1.
025C  213F                      ANK     A1,/3F
025E  3941                      SLL     A1,1
                        *
0260  84A0                      LDKL    A12,INTA
0262  0000  F
0264  84A5                      STR     A12,A1
                        *
                        *MAIN PROGRAM STARTS HERE
                        *
                        *
                        *
0266  2840              START2  ENB
0268  87A0                      LDKL    A15,/150
026A  0150
026C  84A0                      LDKL    A12,0
026E  0000
0270  85A0                      LDKL    A13,0
0272  0000
```

```
00081  0274  0100          LDK     A1,0            OUTPUT DEVICE
00082  0276  0201          LDK     A2,1            INPUT DEVICE
00083  0278  F041          EX      CIOST1          START CU 1
       027A  0000  F
00084  027C  5002          RF(0)   *+4
00085  027E  207F          HLT                     NOT ACC.
00086  0280  F041          EX      CIOST2          START CU 2
       0282  0000  F
00087  0284  5002          RF(0)   *+4
00088  0286  207F          HLT                     NOT ACC.
00089  0288  F041          EX      TST1
       028A  0000  F
00090  028C  1700          ADK     A7,0
00091  028E  5C08          RB(4)   *-6
00092  0290  F041          EX      TST2
       0292  0000  F
00093  0294  1700          ADK     A7,0
00094  0296  5C08          RB(4)   *-6
00095  0298  5F34          RB(7)   START2
00096                      *
00097                      *I/O COMMANDS
00098                      *
00099  029A  41C0  CIOST1  CIO     A1,1,0
00100  029C  4180  CIOHL1  CIO     A1,0,0
00101  029E  4C00  INR1    INR     A4,0,0
00102  02A0  4500  OTR1    OTR     A5,0,0
00103  02A2  4F80  TST1    TST     A7,0
00104  02A4  4BC0  SST1    SST     A3,0
00105  02A6  42C0  CIOST2  CIO     A2,1,0
00106  02A8  4180  CIOHL2  CIO     A1,0,0
00107  02AA  4C00  INR2    INR     A4,0,0
00108  02AC  4500  OTR2    OTR     A5,0,0
00109  02AE  4F80  TST2    TST     A7,0
00110  02B0  4BC0  SST2    SST     A3,0
00111                      *
00112                      *
00113                      *INTERRUPT ROUTINE OUTPUT
00114                      *
00115  02B2  F041  INTA    EX      OTR1
       02B4  02A0  R
00116  02B6  5400  F       RF(4)   SSTS
00117  02B8  94A0          ADKL    A12,1
       02BA  0001
00118  02BC  EC98          CWR     A12,A6
00119  02BE  5400  F       RF(4)   RET
00120  02C0  F041          EX      CIOHL1          END OF TRANSMISSION
       02C2  029C  R
00121  02C4  F041  SSTS    EX      SST1
       02C6  02A4  R
00122
```

```
00123  02C8  F03E      RET     RTN     A15
00124  02CA            RES     /10
00125                  *
00126                  *
00127                  *INTERRUPT ROUTINE INPUT
00128                  *
00129                  *
00130  02EA  F041      INTB    EX      INR2
       02EC  02A6  R
00131  02EE  5400  F           RF(4)   SSTSB
00132  02F0  EC14              CWR     A4,A5
00133  02F2  5002              RF(0)   *+4
00134  02F4  207F              HLT
00135  02F6  95A0              ADKL    A13,1
       02F8  0001
00136  02FA  ED98              CWR     A13,A6
00137  02FC  5400  F           RF(4)   RETERN
00138  02FE  F041              EX      CIOHL2
       0300  02A8  R
00139  0302  F041      SSTSB   EX      SST2
       0304  02B0  R
00140  0306  F03E      RETERN  RTN     A15
00141  0308            RES     /10
00142                  END     START
```

INPUT NOT EQUAL OUTPUT

```
          SYMBOL TABLE

  START   0200  R   CIOST1  029A  R   CLEAR   0216  R   SST2    02B0  R
  CIOST2  02A6  R   CALC    022E  R   SST1    02A4  R   INTB    02EA  R
  INTA    02B2  R   START2  0266  R   TST1    02A2  R   TST2    02AE  R
  CIOHL1  029C  R   INR1    029E  R   OTR1    02A0  R   CIOHL2  02A8  R
  INR2    02AA  R   OTR2    02AC  R   SSTS    02C4  R   RET     02C8  R
  SSTSB   0302  R   RETERN  0306  R

          ASS.ERR.    00000
:EOF
PROG ELAPSED TIME:  00H-00M-56S-940MS-
```