Pack n° Série 933

12NC 5112299 06401.

37F2
86.
3878

```
SCR
INC BOOT
INC LOCAT
INC HALTES
INC CPT
LKE M
DATE     /   /      TIME 24H=60M=60S=
LABEL =                    DATE =                    PACK NBR =          BELG1
```

```
BOOT     0008
LOCAT    0040
HALTES   01DE
CPT      01E2
INTAB    01EA
CVT      020C
T$JPT    0238
T$BTB    0270
T$BPL    02D6
T$DCT    0952
T$LFT    09CE
FCT      0B48
DWT      0B9A
I$RTN    0D06
I$RTC    0D1E
I$LKM    0D5E
I$MHDL   0DD2
NSCHLB   0DE8
DRIY01   0EFC
DRP018   1042
DRPR38   109C
DRLP     10EA
DRCR     124E
D$RDKM   1518
M$RETR   18AA
M$DKER   1A1E
INTCP    1AB0
ABORT    20DE
PAUSE    21D8
RSTART   2222
MANCT    2248
M$CMAD   230A
HEBIN    231E
CHLEV    236A
PCT61    23D4
LKMAL    23DE
EXIT     23F2
WAIT     2484
M$LOAD   2498
GETBUF   24E4
FRBUFF   25AC
M$DKLD   2604
INIT     2712
ENDIO    27D2
IORM     2920
OUTPUT   2C38
COMIO    2D6A
M$DFM    2E02
M$ASPR   3602
```

```
INPUT   369E
INIMON  37F2
```

```
                    ***   SYMBOL   TABLE  ***

ABADR   2100 R    ABLEV   003D A    ABORT   21CE R    BH      2084 R
BUFCP   1BEC R    C:INPT  2D78 R    C:NASR  0CF2 R    C:NCR   0D02 R
C:NLP   0CFE R    C:NPTP  0CF6 R    C:NPTR  0CFA R    C:OUT   2D90 R
C:WAIT  2D6A R    CHLEV   237C R    CPRTN   1B88 R    CPRTN1  1B8A R
CPT     01E2 R    CVT     020C R    CVTBBA  0212 R    CVTBKA  0214 R
CVTBPL  0224 R    CVTBTB  0236 R    CVTDAY  022C R    CVTDCT  0220 R
CVTDSP  0216 R    CVTDWT  021E R    CVTFCT  021C R    CVTFIT  0234 R
CVTHOR  022E R    CVTJPT  0222 R    CVTLFT  0226 R    CVTMIN  0230 R
CVTMON  022A R    CVTMSZ  020C R    CVTPLS  0218 R    CVTSBA  0210 R
CVTSEC  0232 R    CVTSTB  020E R    CVTYAR  0228 R    D:RAS1  0EFC R
D:RAS2  0F84 R    D:RAS3  0FBC R    D:RCR   124E R    D:RDKM  1518 R
D:RLP   10EE R    D:RPTP  1042 R    D:RPTR  109C R    D:WAS1  0B9C R
D:WAS2  0BC2 R    D:WAS3  0BE8 R    D:WCR   0C80 R    D:WDK0  0CA6 R
D:WDK1  0CCC R    D:WLP   0C5A R    D:WPTP  0C0E R    D:WPTR  0C34 R
DCT0    0960 R    DCT1    099E R    DISPAT  0DE8 R    E:FECB  2978 R
E:NDIO  27DE R    E:SECB  2972 R    E:SO00  2852 R    E:SO11  2864 R
E:SO12  286A R    E:SO13  2870 R    E:SO14  2876 R    E:SO15  287C R
ECBCP   1BE0 R    ERHB    20BC R    EXIT    23F2 R    EXSCH   0E50 R
F:CT    0B48 R    FILLAB  0EDC R    FORTY   0040 R    FRBUFF  25AC R
GETBUF  24E4 R    H:LTIO  2DB4 R    HALT    01DE R    HB      2324 R
I:ASR   0FDC R    I:CR    132A R    I:DK0   1770 R    I:ITCP  1AF4 R
I:LKM   0D5E R    I:LP    11E6 R    I:MEMP  0D16 R    I:MHDL  0DD2 R
I:NPUT  369E R    I:NRIO  2DC0 R    I:PFAR  0D06 R    I:PP    1060 R
I:PR    10B4 R    I:RTC   0D1E R    INHCP   1AB0 R    INHST   2712 R
INIMON  37F2 R    INTAB   01EA R    L:VCH   27D2 R    LKMAL   23DE R
M:A00   01DE R    M:ASPR  3602 R    M:CMAD  230A R    M:DFM   2E02 R
M:DISP  0DE8 R    M:DKER  1A4A R    M:DKLD  2616 R    M:DUMP  1CFE R
M:IORM  298A R    M:LDNX  2714 R    M:LOAD  2498 R    M:NDLG  2FB4 R
M:RETR  18AA R    M:TEX   2DEC R    MAINEX  2416 R    MANCT   2248 R
MCABFL  2142 R    O:TPUT  2C38 R    O:TRIO  2DBA R    PAUSE   21D8 R
PCT61   23D8 R    PSMAC   21EE R    PWAIT   2484 R    R:TUR1  2806 R
R:TUR2  2882 R    R:TUR3  288C R    R:TUR4  27F8 R    R:TUR5  280C R
R:TURN  27F0 R    RDPRO   1974 R    RSTART  2222 R    RYPRO   1974 R
S:SST   2DC6 R    S:TIO   2DAE R    SCLFG   0EFA R    STB     01DC R
SYSAB   2134 R    T:BPL   02D6 R    T:BTB   0270 R    T:DCT   0960 R
T:DWT   0B9C R    T:FCT   0B48 R    T:JPT   0238 R    T:LFT   09CE R
WAIT    2484 R

                          ******

                START = 37F2   LENGTH = 3A66   REGION = 1D6F
:EOF
```

```
KPF /L,DOM
LABEL =                    DATE =                    PACK NBR =          BELG1


PRD
LABEL =                    DATE =                    PACK NBR =          BELG1

*********LIBRARY DIRECTORY*********

****FILENAME****TYPE****ADDRESS****

    LOCAT          SC        0840
    CVT            SC        0980
    CPT            SC        0990
    T$BPL          SC        0998
    T$DCT          SC        08E0
    T$LFT          SC        0930
    FCT            SC        09E8
    DWT            SC        0A00
    INTAB          SC        0A30
    HALTES         SC        0AD8
    /OBJCT         OB        0A38
    DRCR           SC        09B0
    DRLP           SC        09D0
    DOM            LM        0858
```

```
ASM LOCAT
DATE     /   /      TIME 24H=60M=60S=
LABEL =                    DATE =                    PACK NBR =          BELG1
```

```
                            IDENT   LOCAT                                        ASM 02
                            ENTRY   STB
                            EXTRN   HALT,RINIT
                            EXTRN   I:TC
                            EXTRN   I:PR
                            EXTRN   I:PP
                            EXTRN   I:DISK
                            EXTRN   I:LP
                            EXTRN   I:CR
                            EXTRN   I:CP
                            EXTRN   I:PFAR
                            EXTRN   I:LKM
                            EXTRN   I:RTC
                            EXTRN   I:ITCP
                            EXTRN   I:MEMP
                            EXTRN   I:ASR
                            EXTRN   I:MHDL
                            EXTRN   INTAB
                            EXTRN   CVT
                ********** HARWARE LOCATIONS STARTING FROM ABSOLUTE ADDRESS /40 ********
0000  0000  X               DATA    I:PFAR     0 LEVEL
0002  0000  X               DATA    I:LKM      1 LEVEL
0004  0000  X               DATA    I:RTC      2 LEVEL
0006  0000  X               DATA    HALT       3 LEVEL
0008  0000  X               DATA    HALT       4 LEVEL
000A  0000  X               DATA    I:MHDL     5 LEVEL
000C  0000  X               DATA    I:MEMP     6 LEVEL
000E  0000  X               DATA    I:ITCP     7 LEVEL
0010  0000  X               DATA    HALT       8 LEVEL
0012  0000  X               DATA    HALT       9 LEVEL
0014  0000  X               DATA    HALT       10 LEVEL
0016  0000  X               DATA    HALT       11 LEVEL
0018  0000  X               DATA    HALT       12 LEVEL
001A  0000  X               DATA    HALT       13 LEVEL
001C  0000  X               DATA    HALT       14 LEVEL
001E  0000  X               DATA    HALT       15 LEVEL
0020  0000  X               DATA    HALT       16 LEVEL
0022  0000  X               DATA    HALT       17 LEVEL
0024  0000  X               DATA    HALT       18 LEVEL
0026  0000  X               DATA    HALT       19 LEVEL
0028  0000  X               DATA    HALT       20 LEVEL
002A  0000  X               DATA    HALT       21 LEVEL
002C  0000  X               DATA    HALT       22 LEVEL
002E  0000  X               DATA    HALT       23 LEVEL
0030  0000  X               DATA    HALT       24 LEVEL
```

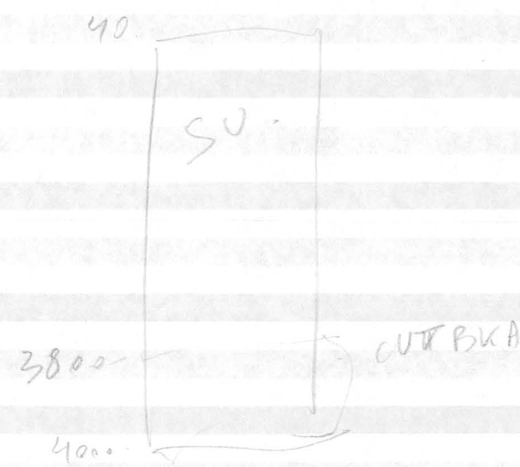
```
00045  0032  0000  X            DATA     HALT          25 LEVEL
00046  0034  0000  X            DATA     HALT          26 LEVEL
00047  0036  0000  X            DATA     HALT          27 LEVEL
00048  0038  0000  X            DATA     HALT          28 LEVEL
00049  003A  0000  X            DATA     HALT          29 LEVEL
00050  003C  0000  X            DATA     HALT          30 LEVEL
00051  003E  0000  X            DATA     HALT          31 LEVEL
00052                  ******* THE FOLLOWING TWO LOCATIONS ARE NOT USED BY HARDWARE ***********
00053  0040  0000  X            DATA     INTAB         MASKABLE INT TABLE ADDRESS
00054  0042  0000  X            DATA     CVT           CVT ADDRESS
00055                  ******* SECOND SET OF INTERRUPT LOCATIONS AFTER THE MULTIPLEX DOUBLE WOR
00056  0044                     RES      30            MULTIPLEX AREA
00057  0080  0000  X            DATA     HALT          32 LEVEL
00058  0082  0000  X            DATA     HALT          33 LEVEL
00059  0084  0000  X            DATA     HALT          34 LEVEL
00060  0086  0000  X            DATA     HALT          35 LEVEL
00061  0088  0000  X            DATA     HALT          36 LEVEL
00062  008A  0000  X            DATA     HALT          37 LEVEL
00063  008C  0000  X            DATA     HALT          38 LEVEL
00064  008E  0000  X            DATA     HALT          39 LEVEL
00065  0090  0000  X            DATA     HALT          40 LEVEL
00066  0092  0000  X            DATA     HALT          41 LEVEL
00067  0094  0000  X            DATA     HALT          42 LEVEL
00068  0096  0000  X            DATA     HALT          43 LEVEL
00069  0098  0000  X            DATA     HALT          44 LEVEL
00070  009A  0000  X            DATA     HALT          45 LEVEL
00071  009C  0000  X            DATA     HALT          46 LEVEL
00072  009E  0000  X            DATA     HALT          47 LEVEL
00073                  ******* END OF HARWARE LOCATIONS ************************
00074  00A0                     RES      16            OVERFLOW AREA
00075  00C0  FFFF               DATA     /FFFF         OVERFLOW LOCATION
00076  00C2                     RES      61            STACK AREA
00077  013C                     RES      48
00078  019C  FFFF    STB       DATA     /FFFF         STACK BASE
00079                  *******   END OF STACK AREA .       INITIAL VALUE FOR A15 .    **********
00080                            END
```

```
            SYMBOL TABLE

  STB     019C  R   HALT          X   RINIT         X   I:TC          X
  I:PR          X   I:PP          X   I:DISK        X   I:LP          X
  I:CR          X   I:CP          X   I:PFAR        X   I:LKM         X
  I:RTC         X   I:ITCP        X   I:MEMP        X   I:ASR         X
  I:MHDL        X   INTAB         X   CVT           X

            ASS,ERR,    00000
:EOF
```

ASM CVT
DATE / / TIME 24H=60M=60S=
LABEL = DATE = PACK NBR = BELG1



```
00000                          IDENT    CVT                                          ASM 02
00001                          ENTRY    CVT
00002                           ENTRY   CVTMSZ      MEMORY SIZE
00003                          ENTRY    CVTSTB      STACK A15 BASE
00004                          ENTRY    CVTSBA      SMALLEST BUFF AREA ADDRESS
00005                          ENTRY    CVTBBA      BIGGEST BUFF AREA ADDRESS
00006                          ENTRY    CVTBKA          BACKGROUND ADDRESS
00007                          ENTRY    CVTPLS        BASIC PULSE FOR RTC
00008                          ENTRY    CVTFCT       FILE CODE TABLE ADDRESS
00009                          ENTRY    CVTDWT       DEVICE WORK TABLE ADDRESS
00010                          ENTRY    CVTDCT       DISK CONTROL TABLE ADDRESS
00011                          ENTRY    CVTJPT       JOB PARAMETERS TABLE ADDRESS
00012                          ENTRY    CVTBPL       BUFFER POOL ADDRESS
00013                          ENTRY    CVTLFT       LOGICAL FILE TABLE ADDRESS
00014                          ENTRY    CVTDSP       DISPATCHER ADDRESS
00015                          ENTRY    CVTYAR       YEAR
00016                          ENTRY    CVTMON       MONTH
00017                          ENTRY    CVTDAY       DAY
00018                          ENTRY    CVTHOR       HOUR                  ↑ BINARY VALUES
00019                          ENTRY    CVTMIN       MINUTE                ↑
00020                          ENTRY    CVTSEC       SECOND                ↑
00021                          ENTRY    CVTFIT       FIFIETHS OF SECOND    ↑
00022                          ENTRY    CVTBTB
00023                  *
00024                  *
00025                          EXTRN    STB
00026                          EXTRN    M:DISP
00027                          EXTRN    T:FCT
00028                          EXTRN    T:DWT        T:DWT ADDRESS
00029                          EXTRN    T:DCT
00030                          EXTRN    T:JPT
00031                          EXTRN    T:BPL
00032                          EXTRN    T:LFT
00033                          EXTRN    T:BTB
00034                  *
00035                  *
00036                  CVT     EQU      *
00037- 0000 0000       CVTMSZ  DATA     0        /8000
00038  0002 0000   X   CVTSTB  DATA     STB
00039  0004 0000       CVTSBA  DATA     /0
00040  0006 0000       CVTBBA  DATA     0
00041  0008 3800       CVTBKA  DATA     /3800
00042  000A 0000   X   CVTDSP  DATA     M:DISP
00043  000C FFCE       CVTPLS  DATA     -50
00044  000E            CVTBPL  RES      1
```

```
00045  0010  0000  X  CVTFCT   DATA    T:FCT
00046  0012  0000  X  CVTDWT   DATA    T:DWT
00047  0014  0000  X  CVTDCT   DATA    T:DCT
00048  0016  0000  X  CVTJPT   DATA    T:JPT
00049  0018  0000  X  CVTBPL   DATA    T:BPL
00050  001A  0000  X  CVTLFT   DATA    T:LFT
00051  001C  0000     CVTYAR   DATA    0
00052  001E  0000     CVTMON   DATA    0
00053  0020  0000     CVTDAY   DATA    0
00054  0022  0000     CVTHOR   DATA    0
00055  0024  0000     CVTMIN   DATA    0
00056  0026  0000     CVTSEC   DATA    0
00057  0028  0000     CVTFIT   DATA    0
00058  002A  0000  X  CVTBTB   DATA    T:BTB
00059                  END
```

```
          SYMBOL TABLE

CVT     0000  R   CVTMSZ  0000  R   CVTSTB  0002  R   CVTSBA  0004  R
CVTBBA  0006  R   CVTBKA  0008  R   CVTPLS  000C  R   CVTFCT  0010  R
CVTDWT  0012  R   CVTDCT  0014  R   CVTJPT  0016  R   CVTBPL  0018  R
CVTLFT  001A  R   CVTDSP  000A  R   CVTYAR  001C  R   CVTMON  001E  R
CVTDAY  0020  R   CVTHOR  0022  R   CVTMIN  0024  R   CVTSEC  0026  R
CVTFIT  0028  R   CVTBTB  002A  R   STB             X   M:DISP      X
T:FCT         X   T:DWT         X   T:DCT         X   T:JPT         X
T:BPL         X   T:LFT         X   T:BTB         X

          ASS,ERR,    00000
:EOF
```

```
ASM CPT
DATE     /   /      TIME 24H=60M=60S=
LABEL =                    DATE =                    PACK NBR =          BELG1
```

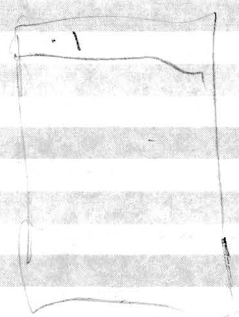
```
00000                              IDENT     CPT                                                         ASM 02
00001                              ENTRY     CPT
00002  0000  0004       CPT        DATA      4              LENTH
00003  0002  0004                  DATA      /0004 .        00= PAGE NUMBER 04= NUMBER OF PAGES
00004  0004  007F                  DATA      /007F                   MASK1
00005  0006  0000                  DATA      0      /FFFF   MASK2
00006                               END
```

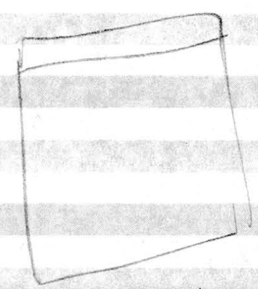
```
            SYMBOL TABLE
  CPT     0000  R

            ASS,ERR,    00000
;EOF
```

```
ASM T:BPL
DATE     /   /     TIME 24H=60M=60S=
LABEL =                  DATE =                  PACK NBR =          BELG1
```

```
00000                                   IDENT    T:BPL                                                 ASM 02
00001                                   ENTRY    T:BPL
00002                         T:BPL     EQU      *                 BUFFER POOL
00003  0000  0000                       DATA     0                 FIRST ALLOCATED BUFFER
00004  0002  0000  F                    DATA     DEBUFF            FIRST FREE BUFFER
00005                         DEBUFF    EQU      *
00006  0004  01A2  R                    DATA     *+414
00007  0006                             RES      206
00008  01A2  0340  R                    DATA     *+414
00009  01A4                             RES      206
00010  0340  04DE  R                    DATA     *+414
00011  0342                             RES      206
00012  04DE  0000                       DATA     0                 LAST ENTRY
00013  04E0                             RES      206
00014                         *
00015                         *
00016                                   END
```





```
            SYMBOL TABLE
  T:BPL   0000  R   DEBUFF  0004  R
            ASS.ERR.    00000
:EOF
```

```
ASM T:DCT
DATE     /   /      TIME 24H=60M=60S=
LABEL =                    DATE =                    PACK NBR =          BELG1
```

```
                                                                                   ASM 02
                          IDENT   T:DCT
                          ENTRY   T:DCT
                          ENTRY   DCT0
                          ENTRY   DCT1
                          EXTRN   D:WDK0
                          EXTRN   D:WDK1
0000  003E                DATA    /003E                   ENTRY LENGTH
0002  00F0                 DATA   /00F0      FILE CODE                                    D
0004  0000                DATA    0                                                       D
0006  019A                DATA    X'019A'                 REQUESTED LENGTH
0008                      RES     3
                T:DCT     EQU     *                       DISK CONTROL TABLES
                DCT0      EQU     *
000E  8200                DATA    X'8200'                 DCTHD
0010  0000  X             DATA    D:WDK0                  ADDRESS OF DWT
0012  0000                DATA    0                       FLAGS
0014                      RES     5                       INPUT-OUTPUT WORK AREA
001E  0E66                DATA    X'E66'                  MULTIPLEX CONTROL WORD 1 FOR WR.
0020                      RES     1                       MULTIPLEX CONTROL WORD 2 FOR WR.
0022  0000  F             DATA    EQ1-4                   END OF QUEUE-2
0024  0000  F             DATA    BQ1                     NEXT FREE ENTRY IN QUEUE
0026  0000                DATA    0                       POINTER TO 1ST ELEMENT IN QUEUE
0028  0000                DATA    0                       POINTER TO NEXT ELEMENT IN QUEUE
                BQ1       EQU     *
002A                      RES     10                      QUEUE AREA
                EQ1       EQU     *
                *
                *
                *
                *
                *
003E  803E                DATA    /803E                   ENTRY LENGTH
0040  00F1                DATA    /00F1      FILE CODE                                    D
0042  0000                DATA    0                                                       D
0044  019A                DATA    X'019A'                 REQUESTED LENGTH
0046                      RES     3
                DCT1      EQU     *
004C  9200                DATA    X'9200'                 DCTHD
004E  0000  X             DATA    D:WDK1                  ADDRESS OF DWT
0050  0000                DATA    0                       FLAGS
0052                      RES     5                       INPUT-OUTPUT WORK AREA
005C  0E66                DATA    X'E66'                  MULTIPLEX CONTROL WORD 1 FOR WR.
005E                      RES     1                       MULTIPLEX CONTROL WORD 2 FOR WR.
0060  0000  F             DATA    EQ2-4                   END OF QUEUE-2
0062  0000  F             DATA    BQ2                     NEXT FREE ENTRY IN QUEUE
0064  0000                DATA    0                       POINTER TO 1ST ELEMENT IN QUEUE
```

```
00046  0066  0000                DATA    0               POINTER TO NEXT ELEMENT IN QUEUE
00047                      BQ2     EQU     *
00048  0068                        RES     10              QUEUE AREA
00049                      EQ2     EQU     *


00050                      *
00051                      *
00052                              END
```

```
            SYMBOL TABLE

   T:DCT   000E  R   DCT0    000E  R   DCT1    004C  R   D:WDK0          X
   D:WDK1        X   EQ1     003E  R   BQ1     002A  R   EQ2     007C  R
   BQ2     0068  R

            ASS.ERR.    00000
:EOF
```

```
ASM T:LFT
DATE     /   /      TIME 24H=60M=60S=
LABEL =                    DATE =                    PACK NBR =          BELG1
```

```
                                  IDENT   T:LFT                                        ASM 02
                                  ENTRY   T:LFT
                        T:LFT     EQU     *                   LOGICAL FILE TABLES
0000  3600                        DATA    /3600    LENGTH / ORDER
0002                              RES     5                   SAVE USER CONTEXT
000C  0000                        DATA    0                   FLAGS
000E  0000                        DATA    0                   ASSIGN-COUNT
0010  0000                        DATA    0                   D:CT ADDRESS
0012  0000                        DATA    0                   ADDRESS OF THE FIRST GRANULE
0014  0000                        DATA    0                   REL. ADDR. OF CURRENT SECTOR
0016  0000                        DATA    0                   ABS ADDR. OF CURRENT SECTOR
0018  0000                        DATA    0                   BLOCKING BUFFER ADDRESS
001A  0000                        DATA    0                   DISPLACEMENT IN BLOCKING BUFFER
001C                              RES     13                  WORK-AREA
                        *
                        *
                        *
                        *
                        *
0036  3600                        DATA    /3600    LENGTH / ORDER
0038                              RES     5                   SAVE USER CONTEXT
0042  0000                        DATA    0                   FLAGS
0044  0000                        DATA    0                   ASSIGN-COUNT
0046  0000                        DATA    0                   D:CT ADDRESS
0048  0000                        DATA    0                   ADDRESS OF THE FIRST GRANULE
004A  0000                        DATA    0                   REL. ADDR. OF CURRENT SECTOR
004C  0000                        DATA    0                   ABS ADDR. OF CURRENT SECTOR
004E  0000                        DATA    0                   BLOCKING BUFFER ADDRESS
0050  0000                        DATA    0                   DISPLACEMENT IN BLOCKING BUFFER
0052                              RES     13                  WORK-AREA
                        *
                        *
                        *
                        *
                        *
006C  3600                        DATA    /3600    LENGTH / ORDER
006E                              RES     5                   SAVE USER CONTEXT
0078  0000                        DATA    0                   FLAGS
007A  0000                        DATA    0                   ASSIGN-COUNT
007C  0000                        DATA    0                   D:CT ADDRESS
007E  0000                        DATA    0                   ADDRESS OF THE FIRST GRANULE
0080  0000                        DATA    0                   REL. ADDR. OF CURRENT SECTOR
0082  0000                        DATA    0                   ABS ADDR. OF CURRENT SECTOR
0084  0000                        DATA    0                   BLOCKING BUFFER ADDRESS
0086  0000                        DATA    0                   DISPLACEMENT IN BLOCKING BUFFER
0088                              RES     13                  WORK-AREA
```

```
00046                    *
00047                    *
00048                    *
00049                    *
00050                    *
00051  00A2  3600                DATA    /3600       LENGTH / ORDER                  -
00052  00A4                      RES     5                    SAVE USER CONTEXT
00053  00AE  0000                DATA    0                    FLAGS
00054  00B0  0000                DATA    0                    ASSIGN-COUNT
00055  00B2  0000                DATA    0                    DICT ADDRESS
00056  00B4  0000                DATA    0                    ADDRESS OF THE FIRST GRANULE
00057  00B6  0000                DATA    0                    REL. ADDR. OF CURRENT SECTOR
00058  00B8  0000                DATA    0                    ABS ADDR. OF CURRENT SECTOR
00059  00BA  0000                DATA    0                    BLOCKING BUFFER ADDRESS
00060  00BC  0000                DATA    0                    DISPLACEMENT IN BLOCKING BUFFER
00061  00BE                      RES     13                   WORK-AREA
00062                    *
00063                    *
00064                    *
00065                    *
00066                    *
00067  00D8  3600                DATA    /3600       LENGTH / ORDER
00068  00DA                      RES     5                    SAVE USER CONTEXT
00069  00E4  0000                DATA    0                    FLAGS
00070  00E6  0000                DATA    0                    ASSIGN-COUNT
00071  00E8  0000                DATA    0                    DICT ADDRESS
00072  00EA  0000                DATA    0                    ADDRESS OF THE FIRST GRANULE
00073  00EC  0000                DATA    0                    REL. ADDR. OF CURRENT SECTOR
00074  00EE  0000                DATA    0                    ABS ADDR. OF CURRENT SECTOR
00075  00F0  0000                DATA    0                    BLOCKING BUFFER ADDRESS
00076  00F2  0000                DATA    0                    DISPLACEMENT IN BLOCKING BUFFER
00077  00F4                      RES     13                   WORK-AREA
00078                    *
00079                    *
00080                    *
00081                    *
00082                    *
00083  010E  3600                DATA    /3600       LENGTH / ORDER
00084  0110                      RES     5                    SAVE USER CONTEXT
00085  011A  0000                DATA    0                    FLAGS
00086  011C  0000                DATA    0                    ASSIGN-COUNT
00087  011E  0000                DATA    0                    DICT ADDRESS
00088  0120  0000                DATA    0                    ADDRESS OF THE FIRST GRANULE
00089  0122  0000                DATA    0                    REL. ADDR. OF CURRENT SECTOR
00090  0124  0000                DATA    0                    ABS ADDR. OF CURRENT SECTOR
00091  0126  0000                DATA    0                    BLOCKING BUFFER ADDRESS
00092  0128  0000                DATA    0                    DISPLACEMENT IN BLOCKING BUFFER
00093  012A                      RES     13                   WORK-AREA
00094                    *
00095                    *
```

```
00096                    *
00097                    *
00098                    *
00099  0144  B600                DATA    /B600       LENGTH / ORDER
```

```
00100  0146                      RES     5           SAVE USER CONTEXT
00101  0150  0000                DATA    0           FLAGS
00102  0152  0000                DATA    0           ASSIGN-COUNT
00103  0154  0000                DATA    0           DICT ADDRESS
00104  0156  0000                DATA    0           ADDRESS OF THE FIRST GRANULE
00105  0158  0000                DATA    0           REL. ADDR. OF CURRENT SECTOR
00106  015A  0000                DATA    0           ABS ADDR. OF CURRENT SECTOR
00107  015C  0000                DATA    0           BLOCKING BUFFER ADDRESS
00108  015E  0000                DATA    0           DISPLACEMENT IN BLOCKING BUFFER
00109  0160                      RES     13          WORK-AREA
00110                    *
00111                    *
00112                    END
```

```
            SYMBOL TABLE
  T:LFT   0000  R

            ASS,ERR,    00000
:EOF
```

```
ASM FCT
DATE     /   /     TIME 24H=60M=60S=
LABEL =                    DATE =                    PACK NBR =          BELG1
```

```
                          IDENT    FCT                                          ASM 02
                    * THIS MODULE GIVES THE DEVICE CORRESPONDING TO A FILE CODE.
                    *
                          ENTRY    T:FCT
                          ENTRY    F:CT
                          EXTRN    D:WAS1
                          EXTRN    D:WAS2
                          EXTRN    D:WAS3
                          EXTRN    D:WPTP
                          EXTRN    D:WPTR
                          EXTRN    D:WLP
                          EXTRN    D:WCR
                          EXTRN    D:WTC0
                          EXTRN    D:WTC1
                          EXTRN    D:WTC2
                          EXTRN    D:WTC3
                          EXTRN    D:WDK0
                          EXTRN    D:WDK1
                          EXTRN    D:WMT0
                          EXTRN    D:WMT1
                          EXTRN    D:WMT2
                          EXTRN    D:WMT3
                    *
                    *
                    *
                    T:FCT EQU      *
                    F:CT  EQU      *
0000  0000  F       FCT   DATA     FCTEND-FCT
0002  0001                DATA     /0001         *USER TERMINAL
0004  0000  X             DATA     D:WAS1
0006  0002                DATA     /0002         *PRINT FILE
0008  0000  X             DATA     D:WLP
000A  0003                DATA     /0003         *PUNCH OUTPUT
000C  0000  X             DATA     D:WPTP
000E  00E1                DATA     /00E1        * SOURCE INPUT
0010  0000  X             DATA     D:WCR
0012  00E2                DATA     /00E2         *OBJECT INPUT
0014  0000  X             DATA     D:WPTR
0016  00E0                DATA     /00E0         *CONTROL COMMAND INPUT
0018  0000  X             DATA     D:WAS1
001A  00EF                DATA     /00EF         *OPERATOR CONSOL
001C  0000  X             DATA     D:WAS1
001E  00F0                DATA     /00F0         *DISK UNIT  0  (SYSTEM)
0020  0000  X             DATA     D:WDK0
0022  00F1                DATA     /00F1         *DISK UNIT  1  (USER #1)
0024  0000  X             DATA     D:WDK1
```

```
00046                    *
00047                    *
00048                    *
00049  0026  0000               DATA    0              YOU MAY ADD  SOME MORE FILE
00050  0028  0000               DATA    0
00051  002A  0000               DATA    0
00052  002C  0000               DATA    0
00053  002E  0000               DATA    0
00054  0030  0000               DATA    0
00055  0032  0000               DATA    0
00056  0034  0000               DATA    0
00057  0036  0000               DATA    0
00058  0038  0000               DATA    0
00059                    *
00060                    *
00061  003A  80D4               DATA    /80D4          *SOURCE  DATA DISK FILE
00062  003C  0000               DATA    0
00063  003E  80D5               DATA    /80D5          *OBJECT  DISK FILE
00064  0040  0000               DATA    0
00065  0042  80D6               DATA    /80D6          *LOAD MODULE DISK FILE
00066  0044  0000               DATA    0
00067  0046  80D7               DATA    /80D7          *STANDARD OBJECT DISK LIBRARY
00068  0048  0000               DATA    0
00069  004A  80D8               DATA    /80D8          *USER OBJECT DISK LIBRARY
00070  004C  0000               DATA    0
00071  004E  80D9               DATA    /80D9          *PERMANENT SOURCE DATA DISK FILE
00072  0050  0000               DATA    0
00073                    FCTEND  EQU     *-2
00074                    *
00075                    *
00076                            END
```

```
            SYMBOL TABLE

T:FCT   0000  R    F:CT    0000  R    D:WAS1        X    D:WAS2        X
D:WAS3        X    D:WPTP        X    D:WPTR        X    D:WLP         X
D:WCR         X    D:WTC0        X    D:WTC1        X    D:WTC2        X
D:WTC3        X    D:WDK0        X    D:WDK1        X    D:WMT0        X
D:WMT1        X    D:WMT2        X    D:WMT3        X    FCT     0000  R
FCTEND  0050  R

            ASS.ERR.    00000
:EOF
```

```
ASM DWT
DATE     /   /     TIME 24H=60M=60S=
LABEL =                  DATE =                  PACK NBR =          BELG1
```

```
         IDENT    DWT                                                        ASM 02
**************************************************************************
* THIS MODULE CONTAINS THE WORK TABLE FOR EVERY DEVICE
**************************************************************************
         ENTRY    T:DWT
         ENTRY    D:WAS1
         ENTRY    D:WAS2
         ENTRY    D:WAS3
         ENTRY    D:WPTP
         ENTRY    D:WPTR
         ENTRY    D:WLP
         ENTRY    D:WCR
         ENTRY    D:WDK0
         ENTRY    D:WDK1
         ENTRY    C:NASR
         ENTRY    C:NPTP
         ENTRY    C:NPTR
         ENTRY    C:NLP
         ENTRY    C:NCR
**************************************************************************
         EXTRN    D:RAS1
         EXTRN    D:RAS2
         EXTRN    D:RAS3
         EXTRN    D:RPTP
         EXTRN    D:RPTR
         EXTRN    D:RLP
         EXTRN    D:RCR
         EXTRN    D:TC
         EXTRN    D:RDKM
         EXTRN    D:MT
         EXTRN    I:MT
         EXTRN    DCT0
         EXTRN    DCT1
         EXTRN    I:ASR
         EXTRN    I:PP
         EXTRN    I:PR
         EXTRN    I:LP
         EXTRN    I:CR
         EXTRN    I:TC
*
*
*        SUPERVISOR COMMUNICATION VECTOR EQUIVALENCE
*
*
*
*
```

```
00046                   *
00047                   *
00048   CVEADR   EQU     /82         ADDR OF SUPERVISOR CVT
00049                   *
```

```
00050   CVEMSZ   EQU     0           MEMORY SIZE
00051   CVESTB   EQU     CVEMSZ+2    STACK BASE
00052   CVESBA   EQU     CVESTB+2    SMALLEST BUFFER ADDR
00053   CVEBBA   EQU     CVESBA+2    BIGGEST BUFFER ADDR
00054   CVEBKA   EQU     CVEBBA+2    BACKGROUND ADDR
00055   CVEDSP   EQU     CVEBKA+2    START ADDR OF DISPATCHER
00056   CVEFCT   EQU     CVEDSP+6    FILE CODE TABLE
00057   CVEDWT   EQU     CVEFCT+2    DEVICE WORK TABLE
00058   CVEDCT   EQU     CVEDWT+2    DISK CONTROL TABLE
00059   CVEJPT   EQU     CVEDCT+2    JOB PARAMETER TABLE
00060   CVEBPL   EQU     CVEJPT+2    BUFFER POOL
00061   CVELFT   EQU     CVEBPL+2    LOGICAL FILE DESCRIPTION TABLE
00062   CVEYAR   EQU     CVELFT+2    CURRENT YEAR, 2 ASCIL CHAR
00063   CVEMON   EQU     CVEYAR+2    CURRENT MONTH,2 ASCIL*CHAR
00064   CVEDAY   EQU     CVEMON+2    CURRENT DAY, 2 ASCIL CHAR
00065   CVEHOR   EQU     CVEDAY+2    HOURS           &"                      &
00066   CVEMIN   EQU     CVEHOR+2    MINUTES          "29N1RY E  &           &
00067   CVESEC   EQU     CVEMIN+2    SECONDS          ↑
00068   CVEFIT   EQU     CVESEC+2    FIFTETHS OF SEC  ↑
00069   CVEBTB   EQU     CVEFIT+2    ALLOCATION TABLE
00070                   *
00071                   *
00072                   *
00073                   *
00074                   *       FCT     FILE CODE TABLE
00075                   *
00076   FCTFC    EQU     0           FILE CODE
00077   FCTDWT   EQU     2           ADDR OF DWT ASSIGNED TO THE FILE CODE
00078   FCTLFT   EQU     2           ADDR OF LFI ASSIGNED TO THE FILE CODE
00079                   *
00080                   *
00081                   *       DCT     DISK CONTROL TABLE
00082   DCTLG    EQU     =14       ENTRY LENGTH
00083   DCTEB0   EQU     DCTLG+2     EVENT BYTE / LOGICAL DISK FILE CODE
00084   DCTEB1   EQU     DCTEB0+2    BUFFER (205 WORDS) ADDR
00085   DCTEB2   EQU     DCTEB1+2    REQUESTED LENGTH,410 CHARACTERS
00086   DCTEB3   EQU     DCTEB2+2    EFFECTIVE LENGTH,410 CHARACTERS
00087   DCTEB4   EQU     DCTEB3+2    RETURNED STATUS
00088   DCTEB5   EQU     DCTEB4+2    ABSOLUTE SECTOR NUMBER
00089   DCTHD    EQU     DCTEB5+2    CURRENT POSITION OF THE HEAD
00090   DCTDWT   EQU     DCTHD+2     DWT ADDRESS
00091   DCTCUR   EQU     DCTDWT+2    OPERATION TO BE PERFORMED
00092   DCTSK    EQU     DCTCUR+2    BOU LINES FOR DIFFERENTIAL SEEK
00093   DCTRD    EQU     DCTSK+2     BOU LINES FOR READ
00094   DCTRM1   EQU     DCTRD+2     MULTIPLEX/SIMPLEX DOUBLEWORD FOR READ CMND
00095   DCTRM2   EQU     DCTRM1+2
```

```
00096                    DCTW     EQU      DCTRM2+2     BOU LINES FOR WRITE
00097                    DCTWM1   EQU      DCTW+2       MULTIPLEX/SIMPLEX DOUBLEWORD FOR WRITE CMD
00098                    DCTWM2   EQU      DCTWM1+2
00099                    DCTQEN   EQU      DCTWM2+2     END OF QUEUE 1R51  2 !3123&55398&95 8 !
00100                    DCTQRR   EQU      DCTQEN+2     NEXT FREE ENTRY IN THE QUEUE
00101                    DCTQFR   EQU      DCTQRR+2     1ST ELEMENT IN Q (FRONT OF Q)
00102                    DCTQNR   EQU      DCTQFR+2     2ND ELEMENT IN Q
00103                    DCTQBR   EQU      DCTQNR+2     1ST WORD OF Q AREA
00104                    *
00105                    *
00106                    *
00107                    *
00108                    *
00109                    *
00110                    *
00111                    *        LFT      LOGICAL FILE DESCRIPTION TABLE
00112                    *
00113                    *
00114                    LFTORD   EQU      0            USER REQUEST ORDER
00115                    LFTEAD   EQU      LFTORD+2     USER ECB ADDRESS
00116                    LFTREC   EQU      LFTEAD+2     USER RECORD AREA ADDRESS
00117                    LFTLGT   EQU      LFTREC+2     USER REQUEST LENGTH
00118                    LFTPCT   EQU      LFTLGT+2     A5,PCT61 ADDR
00119                    LFTLAB   EQU      LFTPCT+2     A6,SCHED, LAB
00120                    LFTMD1   EQU      LFTLAB+2     FILE STATUS,TYPE
00121                    LFTMD2   EQU      LFTMD1+2     ASSIGN COUNT
00122                    LFTDCT   EQU      LFTMD2+2     DCT ADDR
00123                    LFTBOT   EQU      LFTDCT+2     BEGINNING ADDR OF FILE = ADDR OF GRANTB
00124                    LFTSRC   EQU      LFTBOT+2     CURRENT RELATIVE SECTOR NUMBER
00125                    LFTSAC   EQU      LFTSRC+2     CURRENT ABSOLUTE SECTOR NUMBER
00126                    LFTBAD   EQU      LFTSAC+2     BLOCKING BUFFER ADDRESS
00127                    LFTBDS   EQU      LFTBAD+2     DISPLACEMENT OF NEXT REC IN BLOCK BUFFER
00128                    LFTBUF   EQU      LFTBDS+2     CURRENT BUFFER ADDR
00129                    LFTSEC   EQU      LFTBUF+2     CURRENT SECTOR ADDR
00130                    LFTORC   EQU      LFTSEC+2     CURRENT ORDER
00131                    LFTSTC   EQU      LFTORC+2     CURRENT STATUS
00132                    LFTSVD   EQU      LFTSTC+2
00133                    LFTSVS   EQU      LFTSVD+2
00134                    LFTSLU   EQU      LFTSVS+2
00135                    LFTSLB   EQU      LFTSLU+2
00136                    LFTSLC   EQU      LFTSLB+2
00137                    LFTSLT   EQU      LFTSLC+2
00138                    LFTSLR   EQU      LFTSLT+2
00139                    LFTLK1   EQU      LFTSLR+2
00140                    LFTLK2   EQU      LFTLK1+2
00141                    *
00142                    *
00143                    *
00144                    *
00145                    *
```

```
00146                *
00147                *
00148                *
00149                *       BUFFER POOL
00150                *
00151                *
00152                BUFFST  EQU     0       ADDR OF 1ST ALLOCATED BUFFER (BEG.OF CHAIN
00153                BUFREE  EQU     2       ADDR OF 1ST FREED BUFF (BEG. OF CHAIN)
00154                *
00155                *
00156                *
00157                *
00158                BUFLFT  EQU     2       2ND WORD OF BUF : ADDR OF LFT TO WHICH THE
00159                *                       BUFFER IS ALLOCATED
00160                BUFNXT  EQU     0       1ST WORD : NEXT BUFFER IN THE CHAIN
00161                *                       NEXT 205 WORDS ARE THE BUFFER AREA
00162                *
00163                *
00164                *       ECB
00165                *
00166                ECBFC   EQU     0       FILE CODE
00167                ECBBF   EQU     2       BUFFER ADDR
00168                ECBRL   EQU     4       REQUESTED LENGTH
00169                ECBEL   EQU     6       EFF LENGTH
00170                ECBST   EQU     8       STATUS
00171                ECBSC   EQU     10      SECTOR ADDR
00172                *
00173                *
00174                *       JPT     JOB PARAMETER TABLE
00175                *
00176                *
00177                JPTCA1  EQU     0       COMMUNICATION AREA
00178                JPTCA2  EQU     JPTCA1+2
00179                JPTCA3  EQU     JPTCA2+2
00180                JPTCA4  EQU     JPTCA3+2
00181                JPTCA5  EQU     JPTCA4+2
00182                JPTDSK  EQU     JPTCA5+2    DISK ADDR OF CURRENT PROG/USER DISK ADDR
00183                JPTDIR  EQU     JPTDSK+2    USER DIRECTORY ADDR
00184                JPTMOD  EQU     JPTDIR+2    CONTROL WORD
00185                JPTCOD  EQU     JPTMOD+2    ABORT CODE /EXIT CODE
00186                JPTCMD  EQU     JPTCOD+2    CURRENT COMMAND NUMBER
00187                JPTCCI  EQU     JPTCMD+2    ADDR OF CCI ON DISK (GRANTB SECTOR)
00188                JPTSEG  EQU     JPTCCI+2    NUMBER OF SEGMENTS
00189                JPTROT  EQU     JPTSEG+2    ADDR OF ROOT SEGMENT
00190                *
00191                *
00192                *
00193                *
00194                DWTECB  EQU     10
```

```
00195                                  EJECT
00196                          *
00197                          ********************************************************************************
00198                          *
00199  0000  2611                     DATA     /2611
00200                          *                                        2ND BYTE  # OF ENTRY IN TABLE
00201                          T:DWT   EQU      *
00202  0002  5459             D:WAS1  DATA     'TY'           *00* TYPEWRITER
00203  0004  0010                     DATA     /0010          *02* DEVICE ADDRESS
00204  0006  004A                     DATA     74             *04* BEST LENGTH
00205  0008  0000  X                  DATA     D:RAS1         *06* ACTIVATION DRIVER
00206  000A  8000                     DATA     /8000          *08* SOFTWARE STATUS
00207  000C                           RES      1              *10*ECB ADDRESS
00208  000E                           RES      1              *12* CHARACTER ADDRESS
00209                          *                              *12* BUFFER ADDRESS AT BEGINNING
00210  0010                           RES      1              *14* REQUESTED LENGTH
00211  0012                           RES      1              *16* EFFECTIVE LENGTH
00212  0014                           RES      1              *18* ORDER
00213  0016                           RES      1              *20* RETRY BIT WITH BASIC ORDER
00214  0018                           RES      1              *22* OUTPUT * WORD TO OUTPUT
00215                          *                              *22* INPUT * TABULATION TABLE ADDRESS
00216  001A                           RES      1              *24* CHECKSUM WITH OBJECT ORDER
00217                                                         * 24 * LINE PRINTER * SAVE LAST CHARACTER
00218  001C                           RES      1              *26* OBJECT 4*4 * RIGHT OR LEFT
00219                          *                              *26* LINE PRINTER * SAVE CONTROL CODE
00220  001E                           RES      1              *28*A5
00221  0020                           RES      1              *30*A6
00222  0022  0000  F                  DATA     C:NASR         *32* CONTROLLER STATUS ADDRESS
00223  0024  8000                     DATA     /8000          *34*ATTACH
00224  0026  0002  X                  DATA     I:ASR+2        *36* SST SEQUENCE ADDRESS
00225                          *
00226                          ********************************************************************************
00227                          *
00228  0028  5452             D:WAS2  DATA     'TR'           *00* TAPE READER
00229  002A  0010                     DATA     /0010          *02*
00230  002C  0050                     DATA     80
00231  002E  0000  X                  DATA     D:RAS2         *06* DRIVER
00232  0030  C000                     DATA     /C000          *08*
00233  0032                           RES      9
00234  0044                           RES      2              *28*30*
00235  0048  0000  F                  DATA     C:NASR         *32*
00236  004A  8000                     DATA     /8000
00237  004C  0002  X                  DATA     I:ASR+2
00238                          *
00239                          ********************************************************************************
00240                          *
```

```
00241  004E  5450       D:WAS3   DATA    'TP'          *00* TAPE PUNCH
00242  0050  0010                DATA    /0010         *02*
00243  0052  0050                DATA    80
00244  0054  0000  X             DATA    D:RAS3        *06* DRIVER


00245  0056  C000                DATA    /C000         *08*
00246  0058                      RES     9
00247  006A                      RES     2             *28*30*
00248  006E  0000  F             DATA    C:NASR        *32*
00249  0070  8000                DATA    /8000
00250  0072  0002  X             DATA    I:ASR+2
00251                    *
00252                    ********************************************************************************
00253                    *
00254  0074  5050       D:WPTP   DATA    'PP'          *00* H S P P
00255  0076  0030                 DATA    /0030
00256  0078  0050                DATA    80
00257  007A  0000  X             DATA    D:RPTP
00258  007C  C000                 DATA     /C000
00259  007E                      RES     9
00260  0090                      RES     2             *28*30*
00261  0094  0000  F             DATA    C:NPTP
00262  0096  8000                DATA    /8000         *30*
00263  0098  0002  X             DATA    I:PP+2
00264                    *
00265                    ********************************************************************************
00266                    *
00267  009A  5052       D:WPTR   DATA    'PR'          *00* H S P R
00268  009C  0020                DATA    /0020         *02*
00269  009E  0050                DATA    80
00270  00A0  0000  X             DATA    D:RPTR
00271  00A2  C000                 DATA     /C000
00272  00A4                      RES     9
00273  00B6                      RES     2             *28*30*
00274  00BA  0000  F             DATA    C:NPTR
00275  00BC  8000                DATA    /8000
00276  00BE  0002  X             DATA    I:PR+2
00277                    *
00278                    ********************************************************************************
00279                    *
00280  00C0  4C50       D:WLP    DATA    'LP'          *00* LINE PRINTER
00281  00C2  000D                DATA    /000D
00282  00C4  0088                DATA    136
00283  00C6  0000  X             DATA    D:RLP         *06* DRIVER
00284  00C8  8000                DATA    /8000
00285  00CA                      RES     9
00286  00DC                      RES     2
00287  00E0  0000  F             DATA    C:NLP         *32*
00288  00E2  8000                DATA    /8000
00289  00E4  0002  X             DATA    I:LP+2
00290                    *
```

```
00291                    ********************************************************************************
00292                    *
00293  00E6  4352       D:WCR    DATA     'CR'          *00* CARD READER
00294  00E8  0005                DATA     /0005                 * ADDRESS
```

```
00295  00EA  0050                DATA     80
00296  00EC  0000  X             DATA     D:RCR          *06* DRIVER
00297  00EE  8000                DATA     /8000         * STATUS
00298  00F0                      RES      11
00299  0106  0000  F             DATA     C:NCR          *32*
00300  0108                      RES      1             * ATTACH
00301  010A  0002  X             DATA     I:CR+2
00302                    *
00303                    *
00304                    * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
00305                    *
00306  010C  444B       D:WDK0   DATA     'DK'           *00* DISK
00307  010E  0002                DATA     /0002          *02* DEVILE ADDRESS
00308  0110  019A                DATA     410            *04* BEST LENGTH
00309  0112  0000  X             DATA     D:RDKM         *06* ACTIVATION DRIVER  (MOVABLE DISK)
00310  0114  8000                DATA     /8000          *08* SOFWARE STATUS
00311  0116  0000                DATA     0              *10* ECB ADDRESS
00312  0118  0000                DATA     0              *12* BUFFER ADDRESS
00313  011A  0000                DATA     0              *14* REQUESTED LENGTH
00314  011C  0000                DATA     0              *16* EFFECTIVE LENGTH
00315  011E  0000                DATA     0              *18* ORDER
00316  0120  0000                DATA     0              *20*
00317  0122  0000                DATA     0              *22*
00318  0124  0000                DATA     0              *24*
00319  0126  0000                DATA     0              *26*
00320  0128  0000                DATA     0              *28* A5
00321  012A  0000                DATA     0              *30* A6
00322  012C  0000  X             DATA     DCT0+DCTHD     *32* CONTROLLER STATUS ADDRESS
00323  012E  8000                DATA     /8000          *34* ATTACH
00324  0130  0000                DATA     0              *36* SST SEQUENCE ADDRESS
00325                         *
00326                         * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
00327                         *
00328  0132  444B       D:WDK1   DATA     'DK'           *00* DEVICE NAME
00329  0134  0012                DATA     /0012          *02* DEVICE ADDRESS
00330  0136  019A                DATA     410            *04* BEST LENGTH
00331  0138  0000  X             DATA     D:RDKM         *06* ACTIVATION DRIVER  (MOVABLE DISK)
00332  013A  8000                DATA     /8000          *08* SOFWARE STATUS
00333  013C  0000                DATA     0              *10* ECB ADDRESS
00334  013E                      RES      5
00335  0148  0000                DATA     0              *22*
00336  014A                      RES      4
00337  0152  0000  X             DATA     DCT1+DCTHD     *32* CONTROLLER STATUS ADDRESS
00338  0154  8000                DATA     /8000          *34* ATTACH
00339  0156  0000                DATA     0              *36* SST SEQUENCE ADDRESS
00340                         ********************************************************************************
```

```
                    *
                    ************************************************************************
0158  8000          C:NASR   DATA    /8000
015A                         RES     1
```

```
015C  8000          C:NPTP   DATA    /8000
015E                         RES     1
0160  8000          C:NPTR   DATA    /8000
0162                         RES     1
0164  8000          C:NLP    DATA    /8000
0166  FFCE                   DATA    -50          * NUMBER OF LINES IN A PAGE
0168  8000          C:NCR    DATA    /8000
016A                         RES     1
                    *
                    *
                             END
```

SYMBOL TABLE

T:DWT	0002	R	D:WAS1	0002	R	D:WAS2	0028	R	D:WAS3	004E	R
D:WPTP	0074	R	D:WPTR	009A	R	D:WLP	00C0	R	D:WCR	00E6	R
D:WDK0	010C	R	D:WDK1	0132	R	C:NASR	0158	R	C:NPTP	015C	R
C:NPTR	0160	R	C:NLP	0164	R	C:NCR	0168	R	D:RAS1		X
D:RAS2		X	D:RAS3		X	D:RPTP		X	D:RPTR		X
D:RLP		X	D:RCR		X	D:TC		X	D:RDKM		X
D:MT		X	I:MT		X	DCT0		X	DCT1		X
I:ASR		X	I:PP		X	I:PR		X	I:LP		X
I:CR		X	I:TC		X	CVEADR	0082	A	CVEMSZ	0000	A
CVESTB	0002	A	CVESBA	0004	A	CVEBBA	0006	A	CVEBKA	0008	A
CVEDSP	000A	A	CVEFCT	0010	A	CVEDWT	0012	A	CVEDCT	0014	A
CVEJPT	0016	A	CVEBPL	0018	A	CVELFT	001A	A	CVEYAR	001C	A
CVEMON	001E	A	CVEDAY	0020	A	CVEHOR	0022	A	CVEMIN	0024	A
CVESEC	0026	A	CVEFIT	0028	A	CVEBTB	002A	A	FCTFC	0000	A
FCTDWT	0002	A	FCTLFT	0002	A	DCTLG	FFF2	A	DCTEB0	FFF4	A
DCTEB1	FFF6	A	DCTEB2	FFF8	A	DCTEB3	FFFA	A	DCTEB4	FFFC	A
DCTEB5	FFFE	A	DCTHD	0000	A	DCTDWT	0002	A	DCTCUR	0004	A
DCTSK	0006	A	DCTRD	0008	A	DCTRM1	000A	A	DCTRM2	000C	A
DCTW	000E	A	DCTWM1	0010	A	DCTWM2	0012	A	DCTQEN	0014	A
DCTQRR	0016	A	DCTQFR	0018	A	DCTQNR	001A	A	DCTQBR	001C	A
LFTORD	0000	A	LFTEAD	0002	A	LFTREC	0004	A	LFTLGT	0006	A
LFTPCT	0008	A	LFTLAB	000A	A	LFTMD1	000C	A	LFTMD2	000E	A
LFTDCT	0010	A	LFTBOT	0012	A	LFTSRC	0014	A	LFTSAC	0016	A
LFTBAD	0018	A	LFTBDS	001A	A	LFTBUF	001C	A	LFTSEC	001E	A
LFTORC	0020	A	LFTSTC	0022	A	LFTSVD	0024	A	LFTSVS	0026	A
LFTSLU	0028	A	LFTSLB	002A	A	LFTSLC	002C	A	LFTSLT	002E	A
LFTSLR	0030	A	LFTLK1	0032	A	LFTLK2	0034	A	BUFFST	0000	A
BUFREE	0002	A	BUFLFT	0002	A	BUFNXT	0000	A	ECBFC	0000	A
ECBBF	0002	A	ECBRL	0004	A	ECBEL	0006	A	ECBST	0008	A
ECBSC	000A	A	JPTCA1	0000	A	JPTCA2	0002	A	JPTCA3	0004	A
JPTCA4	0006	A	JPTCA5	0008	A	JPTDSK	000A	A	JPTDIR	000C	A
JPTMOD	000E	A	JPTCOD	0010	A	JPTCMD	0012	A	JPTCCI	0014	A
JPTSEG	0016	A	JPTROT	0018	A	DWTECB	000A	A			

ASS,ERR, 00000

:EOF

```
ASM INTAB
DATE     /   /     TIME 24H=60M=60S=
LABEL =                  DATE =                    PACK NBR =          BELG1
```

```
                IDENT    INTAB
      **************************************************************
      *
      * TABLE OF INTERRUPT ROUTINES START ADDRESSES WHEN CONNECTED TO
      *
      * THE COMMON LEVEL
      *
      **************************************************************
                ENTRY    INTAB
                EXTRN    I:PL
                EXTRN    I:LP
                EXTRN    I:MHD1
                EXTRN    I:MHD2
                EXTRN    I:FHD
                EXTRN    I:ASR
                EXTRN    I:ASR2
                EXTRN    I:PP
                EXTRN    I:PP02
                EXTRN    I:TC
                EXTRN    I:PR
                EXTRN    I:PR02
                EXTRN    I:CR
                EXTRN    I:MT
                EXTRN    HALT
                EXTRN     I:DK0
```

```
00025                          EJECT
00026                  INTAB   EQU     *
00027  0000  0000  X           DATA    HALT        BIT 15 IN INTERRUPT SIGNAL REGISTER
00028  0002  0000  X           DATA    I:CR     BIT 14   **************************
00029  0004  0000  X           DATA    I:PR        BIT 13
00030  0006  0000  X           DATA    HALT        BIT 12
00031  0008  0000  X           DATA    HALT                    BIT 11
00032  000A  0000  X           DATA    I:PP        BIT 10
00033  000C  0000  X           DATA    HALT        BIT 9
00034  000E  0000  X           DATA    I:ASR       BIT 8
00035  0010  0000  X           DATA    HALT        BIT 7
00036  0012  0000  X           DATA    HALT                    BIT 6
00037  0014  0000  X           DATA    HALT        BIT 5
00038  0016  0000  X           DATA    I:DK0        BIT 4
00039  0018  0000  X           DATA    HALT        BIT 3
00040  001A  0000  X           DATA    I:LP        BIT 2
00041  001C  0000  X           DATA    HALT        BIT 1
00042  001E  0000  X           DATA    HALT        BIT 0
00043  0020  0000  X           DATA    HALT        NO BIT SET ---> PERFORM HALT
00044                          END
```

```
          SYMBOL TABLE

 INTAB   0000  R   I:PL        X   I:LP        X   I:MHD1      X
 I:MHD2        X   I:FHD       X   I:ASR       X   I:ASR2      X
 I:PP          X   I:PP02      X   I:TC        X   I:PR        X
 I:PR02        X   I:CR        X   I:MT        X   HALT        X
 I:DK0         X

          ASS,ERR,    00000
:EOF
```

```
ASM HALTES
DATE     /   /     TIME 24H=60M=60S=
LABEL =                  DATE =                    PACK NBR =          BELG1
```

```
00000                          IDENT    HALTES                                  ASM 02
00001                          ENTRY    HALT
00002                          ENTRY    M:A00
00003                  M:A00   EQU      *
00004                  HALT    EQU      *
00005  0000  207F              HLT
00006  0002  5F04              RB(7)    *-2
00007                  * STOP COMPUTER IF UNEXPECTED INTERRUPT OR BRANCH
00008                          END
```

```
            SYMBOL TABLE
   HALT    0000  R   M:A00   0000  R
            ASS,ERR,    00000
:EOF
```

```
ASM DRLP
DATE     /   /     TIME 24H=60M=60S=
LABEL =                  DATE =                    PACK NBR =          BELG1
```

```
                            IDENT    DRLP                               ASM 02
                    *
                            ENTRY    D:RLP
                            ENTRY    I:LP
                    *
                            EXTRN    C:NLP
                            EXTRN    C:WAIT
                            EXTRN    D:WLP
                            EXTRN    E:SECB
                            EXTRN    E:FECB
                            EXTRN    E:S011
                            EXTRN    L:VCH
                            EXTRN    M:RETR
                            EXTRN    R:TUR1
                            EXTRN    R:TUR4
                            EXTRN    M:TEX
                            EXTRN    S:TIO
                            EXTRN    S:SST
                    *
                    * THIS SEQUENCE PREPARES THE MULTIPLEX AND ACTIVATES IT
                    *
                    *
                    *       A4 = ORDER
                    *       A6 = DWT ADDRESS
0000                MULTIC  RES      2
                    *
0004  1C05          D:RLP   SUK      A4,5           * CHECK ORDER
0006  8A20                  AB.L(2)  E:S011
0008  0000    X
000A  1C01                  SUK      A4,1
000C  5000    F             RF(0)    DRLP02
000E  8920                  AB.L(1)  E:S011
0010  0000    X
0012  8258          DRLP1B  LD       A2,12,A6
0014  000C
0016  8158                  LD       A1,14,A6
0018  000E
001A  A120          DRLP01  ANK.L    A1,/FFF
001C  0FFF
001E  9204                  ADR      A2,A1
0020  1A01                  SUK      A2,1
0022  F904                  C1R      A1,A1
0024  1101                  ADK      A1,1
0026  A120                  ANK.L    A1,/FFF
0028  0FFF
002A  A920                  ORK.L    A1,/8000              * FUNCTION CHARACTER OUTPUT
002C  8000
```

```
00040  002E  B941          MS      2,MULTIC
       0030  0000  R
00041  0032  20BF          INH


00042  0034  BC3F          MSR     8,A15       *  CALL
00043  0036  8320          LDK,L   A3,*+8      *  THE SEQUENCE
       0038  003E  R
00044  003A  8F20          AB,L    M:TEX       *  WHO LOADS MULTIPLEX DOUBLE WORD
       003C  0000  X
00045  003E  BC3F          MSR     8,A15       *  CALL THE SEQUENCE WHO
00046  0040  8320          LDK,L   A3,*+8      *  CONSTRUCTS AN ' I/O INSTRUCTION '
       0042  0048  R
00047  0044  8F20          AB,L    S:TIO
       0046  0000  X
00048  0048  2840          ENB
00049  004A  8F20          AB,L(7) C:WAIT      * EN DOF ACTIVATION
       004C  0000  X
00050                  *
00051  004E  8458      DRLP02  LD      A4,12,A6
       0050  000C
00052  0052  EC20              CWK     A4,E:SECB   * IS IT EOS ?
       0054  0000  X
00053  0056  5006              RF(0)   *+8
00054  0058  EC20              CWK     A4,E:FECB   * IS IT EOF ?
       005A  0000  X
00055  005C  5400  F           RF(4)   DRLP2B
00056  005E  1C01              SUK     A4,1
00057  0060  8459              ST      A4,12,A6
       0062  000C
00058  0064  8130              LDR*    A1,A4       * SAVE CONTROL CODE
00059  0066  8159              ST      A1,26,A6
       0068  001A
00060  006A  0406              LDK     A4,6
00061  006C  8459               ST     A4,14,A6
       006E  000E
00062  0070  9041              IM      C:NLP+2     * NUMBER OD LINES +1
       0072  0002  X
00063  0074  0405              LDK     A4,5
00064  0076  8459              ST      A4,18,A6
       0078  0012
00065  007A  5F6A              RB(7)   DRLP1B
00066  007C  8558      DRLP2B  LD      A5,12,A6    * PUT A CR-LF EACH N CHARACTERS
       007E  000C
00067  0080  8458              LD      A4,4,A6
       0082  0004
00068  0084  8358              LD      A3,14,A6
       0086  000E
00069  0088  8220              LDK,L   A2,/0A0D
       008A  0A0D
00070  008C  A320              ANK,L   A3,/FFF
       008E  0FFF
```

```
00071  0090  EB10       DRLP04   CWR      A3,A4
00072  0092  5500  F             RF(5)    DRLP03
00073  0094  9510                ADR      A5,A4
```

```
00074  0096  9B10                SUR      A3,A4
00075  0098  8235                STR      A2,A5
00076  009A  9041                IM       C:NLP+2      * NUMBER OD LINES +1
       009C  0002  X
00077  009E  5F10                RB(7)    DRLP04
00078                     *
00079  00A0  950C       DRLP03   ADR      A5,A3
00080  00A2  E134                LCR      A1,A5
00081  00A4  E159                SC       A1,24,A6              SAVE LAST CHARACTER OF BUFFER
       00A6  0018
00082  00A8  E235                SCR      A2,A5
00083  00AA  8558                LD       A5,12,A6
       00AC  000C
00084  00AE  8134                LDR*     A1,A5        * SAVE THE CONTROL CODE
00085  00B0  8159                ST       A1,26,A6
       00B2  001A
00086  00B4  21FF                ANK      A1,/FF
00087  00B6  E920                CWK      A1,/31
       00B8  0031
00088  00BA  5000  F             RF(0)    PAGE                  * CONVERT THE CONTROL CODE
00089  00BC  E920                CWK      A1,/30
       00BE  0030
00090  00C0  5000  F             RF(0)    TWOLIN
00091  00C2  E920                CWK      A1,/2B
       00C4  002B
00092  00C6  5000  F             RF(0)    SUPERP
00093  00C8  8220                LDK,L    A2,/0D0A     * ONE LINE
       00CA  0D0A
00094  00CC  9041                IM       C:NLP+2      * NUMBER OD LINES +1
       00CE  0002  X
00095  00D0  5600  F             RF(6)    PAGE
00096  00D2  5700  F             RF(7)    DRLP05
00097                     *
00098  00D4  8220       SUPERP   LDK,L    A2,/0D0D              * SUPERPOSITION
       00D6  0D0D
00099  00D8  5700  F             RF(7)    DRLP05
00100                     *
00101  00DA  8220       TWOLIN   LDK,L    A2,/0A0A              * SKIP TWO LINES
       00DC  0A0A
00102  00DE  9041                IM       C:NLP+2      * NUMBER OD LINES +1
       00E0  0002  X
00103  00E2  9041                IM       C:NLP+2      * NUMBER OD LINES +1
       00E4  0002  X
00104  00E6  5200  F             RF(2)    DRLP05
00105                     *
00106  00E8  8220       PAGE     LDK,L    A2,/0D0C              * SKIP TO TOP OF PAGE
       00EA  0D0C
```

```
00107  00EC  8120              LDK,L    A1,-50
       00EE  FFCE
00108  00F0  8141              ST       A1,C:NLP+2



       00F2  0002  X
00109  00F4  8235      DRLP05  STR      A2,A5
00110  00F6  9059              IM       14,A6
       00F8  000E
00111  00FA  5FEA              RB(7)    DRLP1B
00112                      *
00113                      ********************************************************************************
00114                      *
00115  00FC  BC3F      I:LP    MSR      8,A15
00116  00FE  8620              LDK,L    A6,D:WLP
       0100  0000  X
00117                      S:LP    EQU      *
00118  0102  BC3F              MSR      8,A15        * CALL THE
00119  0104  8320              LDK,L    A3,*+8       * SEQUENCE WHO
       0106  010C  R
00120  0108  8F20              AB,L     S:SST        * CONSTRUCTS A ! SST INSTRUCTION !
       010A  0000  X
00121  010C  8120              LDK,L    A1,*+8
       010E  0114  R
00122  0110  8F20              AB,L(7)  L:VCH
       0112  0000  X
00123  0114  22FF              ANK      A2,/FF       * TEST STATUS
00124  0116  5000  F           RF(0)    ENDLP2
00125  0118  8158              LD       A1,20,A6     * TEST RETRY BIT
       011A  0014
00126  011C  5100  F           RF(1)    ENDLP1
00127  011E  8308              LDR      A3,A2
00128  0120  B940              ML       2,MULTIC     * RESTORE MULTIPLEX
       0122  0000  R
00129  0124  20BF              INH
00130  0126  BC3F              MSR      8,A15        *  CALL
00131  0128  8320              LDK,L    A3,*+8       *  THE SEQUENCE
       012A  0130  R
00132  012C  8F20              AB,L     M:TEX        *  WHO LOADS MULTIPLEX DOUBLE WORD
       012E  0000  X
00133  0130  2840              ENB
00134  0132  820C              LDR      A2,A3
00135  0134  0100              LDK      A1,0
00136  0136  0300              LDK      A3,0         * GO TO RETRY
00137  0138  8F20              AB,L(7)  M:RETR
       013A  0000  X
00138                  * END OF IO
00139  013C  AA20      ENDLP1  ORK,L    A2,/8000
       013E  8000
00140  0140  8458      ENDLP2  LD       A4,26,A6             * RESTORE CONTROL CODE
       0142  001A
00141  0144  8558              LD       A5,12,A6             * BUFFER ADDRESS
```

```
          0146  000C
00142     0148  8158              LD        A1,18,A6              ORDER
          014A  0012
```

```
00143     014C  1906              SUK       A1,6
00144     014E  5200  F           RF(2)     ENDLP3
00145     0150  8435              STR       A4,A5
00146     0152  E158               LC       A1,24,A6
          0154  0018
00147     0156  8358              LD        A3,14,A6
          0158  000E
00148     015A  1B01              SUK       A3,1
00149     015C  9314              ADR       A3,A5
00150     015E  E12D              SCR       A1,A3
00151     0160  8F20      ENDLP3  AB,L(7)   R:TUR4
          0162  0000  X
00152                             END
```

```
          SYMBOL TABLE

   D:RLP   0004  R   I:LP    00FC  R   C:NLP          X   C:WAIT         X
   D:WLP         X   E:SECB        X   E:FECB         X   E:SO11         X
   L:VCH         X   M:RETR        X   R:TUR1         X   R:TUR4         X
   M:TEX         X   S:TIO         X   S:SST          X   MULTIC  0000   R
   DRLP02  004E  R   DRLP1B  0012  R   DRLP01  001A   R   DRLP2B  007C   R
   DRLP04  0090  R   DRLP03  00A0  R   PAGE    00E8   R   TWOLIN  00DA   R
   SUPERP  00D4  R   DRLP05  00F4  R   S:LP     0102   R   ENDLP2  0140   R
   ENDLP1  013C  R   ENDLP3  0160  R

          ASS,ERR,    00000
:EOF
```

```
ASM DRCR
DATE     /   /     TIME 24H=60M=60S=
LABEL =                  DATE =                    PACK NBR =          BELG1
```

```
                               IDENT     DRCR                                                    ASM 02
                     *
                               ENTRY     D:RCR
                               ENTRY     I:CR
                     *
                               EXTRN     C:WAIT
                               EXTRN     D:WCR
                               EXTRN     E:S011
                               EXTRN     L:VCH
                               EXTRN     M:RETR
                               EXTRN     R:TUR1
                               EXTRN     R:TUR3
                               EXTRN     M:TEX
                               EXTRN     S:TIO
                               EXTRN     S:SST
                     *
                     *
                     ******************************************************************************
                     *
                     * THIS SEQUENCE CHECKS THE PARAMETERS,PREPARES AND ACTIVATES THE MULTIPL
                     *
0000  1C02           D:RCR     SUK       A4,2          * CHEHK ORDER
0002  8920                     AB.L(1)   E:S011
0004  0000  X
0006  5200  F                  RF(2)     DRCR1
0008  8158                     LD        A1,4,A6
000A  0004
000C  E958                     CW        A1,14,A6
000E  000E
0010  5100  F                  RF(1)     DRCR1
0012  8159                     ST        A1,14,A6
0014  000E
                     DRCR1     EQU       *
0016  8220                     LDK.L     A2,CRBUFF+158
0018  0000  F
001A  8120                     LDK.L     A1,/4F60
001C  4F60
001E  20BF                     INH
0020  BC3F                     MSR       8,A15         *  CALL
0022  8320                     LDK.L     A3,*+8        *  THE SEQUENCE
0024  002A  R
0026  8F20                     AB.L      M:TEX         *  WHO LOADS MULTIPLEX DOUBLE WORD
0028  0000  X
002A  BC3F                     MSR       8,A15         *  CALL THE SEQUENCE WHO
002C  8320                     LDK.L     A3,*+8        *  CONSTRUCTS AN ' I/O INSTRUCTION '
002E  0034  R
0030  8F20                     AB.L      S:TIO
```

```
          0032  0000  X
00038     0034  2840                ENB
00039     0036  8F20                AB,L(7)  C:WAIT
```

```
          0038  0000  X
00040                       *
00041                       * SYSTEM BUFFER
00042     003A              CRBUFF   RES      80
00043                       *
00044     00DA              STATUS   RES      1
00045                       *
00046                       * THIS SEQUENCE IS ENTERED BY AN INTERRUPT
00047                       *
00048                       * CHECK IF STATUS IS NULL
00049     00DC  BC3F        I:CR     MSR      8,A15        * SAVE REGISTERS
00050     00DE  8620                 LDK,L    A6,D:WCR
          00E0  0000  X
00051                       S:CR     EQU      *
00052     00E2  BC3F                 MSR      8,A15        * CALL THE
00053     00E4  8320                 LDK,L    A3,*+8       * SEQUENCE WHO
          00E6  00EC  R
00054     00E8  8F20                 AB,L     S:SST        * CONSTRUCTS A ' SST INSTRUCTION '
          00EA  0000  X
00055     00EC  8120                 LDK,L    A1,*+8
          00EE  00F4  R
00056     00F0  8F20                 AB,L(7)  L:VCH
          00F2  0000  X
00057     00F4  0100                 LDK      A1,0
00058     00F6  8141                 ST       A1,STATUS
          00F8  00DA  R
00059                       * THIS SEQUENCE SWITCHES BY ORDER
00060     00FA  8158                 LD       A1,18,A6
          00FC  0012
00061     00FE  21FD                 ANK      A1,/FD                  * ORDER 2 ?
00062     0100  8C20                 AB,L(4)  ITCR5                   * NO
          0102  0000  F
00063     0104  220F                 ANK      A2,/F                   * FEEP USEFUL BITS
00064     0106  5000  F              RF(0)    ITCR11
00065     0108  8120        ITCR2    LDK,L    A1,/4F60
          010A  4F60
00066     010C  8308                 LDR      A3,A2
00067     010E  8220                 LDK,L    A2,CRBUFF+158
          0110  00D8  R
00068     0112  20BF                 INH
00069     0114  BC3F                 MSR      8,A15        *  CALL
00070     0116  8320                 LDK,L    A3,*+8       *  THE SEQUENCE
          0118  011E  R
00071     011A  8F20                 AB,L     M:TEX        *  WHO LOADS MULTIPLEX DOUBLE WORD
          011C  0000  X
00072     011E  2840                 ENB
00073     0120  820C                 LDR      A2,A3
```

```
00074                        * GO TO RETRY MODULE
00075  0122  0100     RETRY    LDK       A1,0
00076  0124  0300              LDK       A3,0
```

```
00077  0126  8F20              AB,L(7)   M:RETR
       0128  0000  X
00078  012A  8520     ITCR11   LDK,L     A5,CRBUFF
       012C  003A  R
00079  012E  0700              LDK       A7,0
00080  0130  80D8              LD        A8,14,A6
       0132  000E
00081  0134  8458              LD        A4,12,A6
       0136  000C
00082  0138  8134     HOLCR8   LDR*      A1,A5        * TRANSLATION
00083  013A  5100  F           RF(1)     HOLCR1
00084  013C  0320              LDK       A3,/20       * H=CODE=0 - A=CODE = 20
00085  013E  5700  F           RF(7)     HOLCR9
00086                        *
00087  0140  0300     HOLCR1   LDK       A3,0         * SCAN FOR THE FIRST HOLE
00088  0142  1301     HOLCR2   ADK       A3,1
00089  0144  3941              SLL       A1,1
00090  0146  5906              RB(1)     HOLCR2
00091  0148  1B04              SUK       A3,4
00092  014A  A120              ANK,L     A1,/7FFF     * FIRST HOLF
       014C  7FFF
00093  014E  5400  F           RF(4)     HOLLET
00094  0150  1B01              SUK       A3,1         * SWITCH
00095  0152  510A              RF(1)     *+12
00096  0154  5004              RF(0)      *+6
00097  0156  0326              LDK       A3,/26       * $
00098  0158  5700  F           RF(7)     HOLCR9       * STORF
00099  015A  032D              LDK       A3,/2D       * -
00100  015C  5700  F           RF(7)     HOLCR9       * STORF
00101  015E  132F              ADK       A3,/2F       * DIGIT
00102  0160  5700  F           RF(7)     HOLCR9       * STORF
00103                        *
00104  0162           HOLFST   RES       1
00105  0164           HOLSND   RES       1
00106                        *
00107  0166  8341     HOLLET   ST        A3,HOLFST    * SAVE FIRST HOLE POSITION
       0168  0162  R
00108  016A  1301              ADK       A3,1
00109  016C  3941              SLL       A1,1
00110                        *
00111  016E  5906              RB(1)     *-4
00112  0170  8341              ST        A3,HOLSND    * SAVE SECOND HOFE POSITION
       0172  0164  R
00113  0174  A120              ANK,L     A1,/7FFF
       0176  7FFF
00114  0178  5400  F           RF(4)     HOLBIZ
00115  017A  8140              LD        A1,HOLFST    * SWITCH
```

```
          017C  0162  R
00116     017E  E920              CWK       A1,3
          0180  0003


00117     0182  5600  F           RF(6)     HOLLE1
00118     0184  9104              ADR       A1,A1          * FIRST HOLE = 12 =11=0
00119     0186  8144              LD        A1,TABLE1,A1 * CHOOSE THE TABLE
          0188  0000  F
00120     018A  8240              LD        A2,HOLSND
          018C  0164  R
00121                       *
00122     018E  1A03              SUK       A2,3
00123     0190  5200  F           RF(2)     HOLCR3
00124     0192  9108              ADR       A1,A2
00125     0194  E324              LCR       A3,A1          * CHOOSE THE LETTER IN THE TABLE
00126     0196  5700  F           RF(7)     HOLCR9
00127     0198  5000  F  HOLLE1   RF(0)     HOLCR3
00128     019A  1904              SUK       A1,4
00129     019C  E920              CWK        A1,5
          019E  0005
00130     01A0  5100  F           RF(1)     HOLCR3
00131     01A2  8240              LD        A2,HOLSND
          01A4  0164  R
00132     01A6  1A0A              SUK       A2,10
00133     01A8  5400  F           RF(4)     HOLCR3
00134     01AA  E344              LC        A3,TABL1,A1 * CHOOSE CHARACTER IN THE TABLE
          01AC  0000  F
00135     01AE  5700  F           RF(7)     HOLCR9          * STORF
00136                       *
00137     01B0  3A23      TABL1   DATA      /3A23
00138     01B2  4027              DATA      /4027
00139     01B4  3D22              DATA      /3D22
00140                       *
00141     01B6  8340      HOLBIZ  LD        A3,HOLFST    * THREE HOLES
          01B8  0162  R
00142     01BA  1B02              SUK       A3,2
00143     01BC  5100  F           RF(1)     HOLCR3
00144     01BE  8340              LD        A3,HOLSND
          01C0  0164  R
00145     01C2  1B04              SUK       A3,4
00146     01C4  5200  F           RF(2)     HOLCR3
00147     01C6  1B05              SUK       A3,5
00148     01C8  5100  F           RF(1)     HOLCR3
00149     01CA  1309              ADK       A3,9           * THIRO HOLE = HOLE EIGHT
00150     01CC  1301              ADK       A3,1
00151     01CE  3941              SLL       A1,1
00152     01D0  5906              RB(1)     *=4
00153     01D2  1B0A              SUK       A3,10
00154     01D4  5400  F           RF(4)     HOLCR3
00155     01D6  3941              SLL       A1,1
00156     01D8  5400  F           RF(4)     HOLCR3
```

```
00157  01DA  8140        LD      A1,HOLFST   *
       01DC  0162  R
00158  01DE  9104        ADR     A1,A1
```

```
00159  01E0  8144        LD      A1,TABLE2,A1
       01E2  0000  F
00160  01E4  9140        AD      A1,HOLSND
       01E6  0164  R
00161  01E8  1904        SUK     A1,4
00162  01EA  E324        LCR     A3,A1
00163  01EC  5700  F     RF(7)   HOLCR9
00164                    * STOR  E ASCII CODE
00165  01EE  E331  HOLCR9 SCR     A3,A4
00166  01F0  1401        ADK     A4,1
00167  01F2  1502        ADK     A5,2
00168  01F4  1701        ADK     A7,1
00169  01F6  EF02        CWR     A7,A8
00170  01F8  5CC2        RB(4)   HOLCR8
00171  01FA  8759        ST      A7,16,A6
       01FC  0010
00172                    *
00173                    * THIS SEQUENCE PERFORMS THE END OF TRANSFERT
00174  01FE  8140  HOLEND LD      A1,STATUS
       0200  00DA  R
00175  0202  2101        ANK     A1,/1
00176  0204  5000  F     RF(0)    HOLEN2
00177  0206  0204        LDK     A2,/4       * GO TO RETRY WITH DATA FAULT
00178  0208  8F20        AB,L(7) ITCR2
       020A  0108  R
00179  020C  8459  HOLEN2 ST      A4,12,A6
       020E  000C
00180  0210  9C1C        SUR     A4,A7       BUFFER ADDRESS
00181  0212  B930        MLR     2,A4
00182  0214  E920        CWK     A1,/3A45    *:E
       0216  3A45
00183  0218  5400  F     RF(4)   HOLEN1
00184  021A  EA20        CWK     A2,/4F46    *OF
       021C  4F46
00185  021E  5000  F     RF(0)   HOLEN0
00186  0220  EA20        CWK     A2,/4F53    *OS
       0222  4F53
00187  0224  5400  F     RF(4)   HOLEN1
00188  0226  1404  HOLEN0 ADK     A4,4
00189  0228  8459        ST      A4,12,A6
       022A  000C
00190  022C  0404        LDK     A4,4
00191  022E  8459        ST      A4,16,A6
       0230  0010
00192  0232  8558  HOLEN1 LD      A5,10,A6
       0234  000A
00193  0236  8F20        AB,L(7) R:TUR3
```

```
                0238  0000  X
00194                       *
00195                       * ERROR DATAS FAULT




00196  023A  0301        HOLCR3  LDK       A3,1          * UNKNOWN CHARACTER
00197  023C  AB41                 OR,S      A3,STATUS
       023E  00DA  R
00198  0240  0320                 LDK       A3,/20
00199  0242  5F56                 RB(7)     HOLCR9
00200                       * CONVERSION TABLE
00201  0244  0000  F     TABLE1   DATA      TABI12
00202  0246  0000  F              DATA      TABI11
00203  0248  0000  F              DATA      TABI10
00204  024A  4142        TABI12   DATA      'ABCDEFGHI '
       024C  4344
       024E  4546
       0250  4748
       0252  4920
00205  0254  4A4B        TABI11   DATA      'JKLMNOPQR '
       0256  4C4D
       0258  4E4F
       025A  5051
       025C  5220
00206  025E  2F53        TABI10   DATA      '/STUVWXYZ '
       0260  5455
       0262  5657
       0264  5859
       0266  5A20
00207  0268  0000  F     TABLE2   DATA      TABLE3
00208  026A  0000  F              DATA      TABLE4
00209  026C  0000  F              DATA      TABLE5
00210  026E  5B2E        TABLE3   DATA      /5B2E          * 12-2-12-3
00211  0270  3C28                 DATA      /3C28         * 12-4-12-5
00212  0272  2B5E                 DATA      /2B5E         * 12-6-12-7
00213  0274  2124        TABLE4   DATA      /2124         * 11-2-11-3
00214  0276  2A29                 DATA      /2A29         * 11-4-11-5
00215  0278  3B5D                 DATA      /3B5D         * 11-6-11-7
00216  027A  5C2C        TABLE5   DATA      /5C2C         * 10-2-10-3
00217  027C  255F                 DATA      /255F         *10-4-10-5
00218  027E  3E3F                 DATA      /3E3F         * 10-6-10-7
00219                       ITCR5   EQU       *
00220  0280  220F                 ANK       A2,/0F       * KEEP BITS 12,14,15
00221  0282  5000  F              RF(0)     ITCR51                 * STATUS = 0
00222  0284  8158                 LD        A1,20,A6     * STATUS # 0
       0286  0014
00223  0288  8D20                 AB,L(5)   ITCR2                  * GO TO RETRY
       028A  0108  R
00224  028C  AA20                 ORK,L     A2,/8000
       028E  8000
00225  0290  0100                 LDK       A1,0         * USER WANTS HARDWARE STATUS
00226  0292  8558        ITCR53   LD        A5,10,A6
```

```
        0294  000A
00227   0296  8F20                 AB,L(7)  R:TUR1
        0298  0000  X

00228                    * THIS SEQUENCE PUTS CHARACTERS IN USER BUFFER IF STATUS = 0
00229   029A  8558       ITCR51    LD       A5,12,A6              * USER BUFFER ADDRESS
        029C  000C
00230   029E  8458                 LD       A4,14,A6              * REQUESTED
        02A0  000E
00231   02A2  0100                 LDK      A1,0                  * EFFECTIVE LENGTH
00232   02A4  8220                 LDK,L    A2,CRBUFF             * SYSTEM BUFFER ADDRESS
        02A6  003A  R
00233   02A8  EC20                 CWK      A4,160
        02AA  00A0
00234   02AC  5202                 RF(2)    *+4
00235   02AE  04A0                 LDK      A4,160
00236   02B0  8328       ITCR52    LDR*     A3,A2
00237   02B2  8335                 STR      A3,A5
00238   02B4  1502                 ADK      A5,2
00239   02B6  1102                 ADK      A1,2
00240   02B8  1202                 ADK      A2,2
00241   02BA  1C02                 SUK      A4,2
00242   02BC  590E                 RB(1)    ITCR52
00243   02BE  0200                 LDK      A2,0
00244   02C0  E920                 CWK      A1,160
        02C2  00A0
00245   02C4  5002                 RF(0)    *+4
00246   02C6  0208                 LDK      A2,8
00247   02C8  5F38                 RB(7)    ITCR53
00248                              END
```

SYMBOL TABLE

D:RCR	0000	R	I:CR	00DC	R	C:WAIT		X	D:WCR		X
E:SO11		X	L:VCH		X	M:RETR		X	R:TUR1		X
R:TUR3		X	M:TEX		X	S:TIO		X	S:SST		X
DRCR1	0016	R	CRBUFF	003A	R	STATUS	00DA	R	S:CR	00E2	R
ITCR5	0280	R	ITCR11	012A	R	ITCR2	0108	R	RETRY	0122	R
HOLCR8	0138	R	HOLCR1	0140	R	HOLCR9	01EE	R	HOLCR2	0142	R
HOLLET	0166	R	HOLFST	0162	R	HOLSND	0164	R	HOLBIZ	01B6	R
HOLLE1	0198	R	TABLE1	0244	R	HOLCR3	023A	R	TABL1	01B0	R
TABLE2	0268	R	HOLEND	01FE	R	HOLEN2	020C	R	HOLEN1	0232	R
HOLEN0	0226	R	TABI12	024A	R	TABI11	0254	R	TABI10	025E	R
TABLE3	026E	R	TABLE4	0274	R	TABLE5	027A	R	ITCR51	029A	R
ITCR53	0292	R	ITCR52	02B0	R						

ASS.ERR. 00000

:EOF

```
BYE
DATE     /   /     TIME 24H=60M=60S=
```

CCI REL, 02

SYSTEM

```
MOV DOM,/L,DOM
RSU /F0
```