```
EEEEEEEEEEEEEEEE   RRRRRRRRRRRR       FFFFFFFFFFFFFFFF
EEEEEEEEEEEEEEEE   RRRRRRRRRRRR       FFFFFFFFFFFFFFFF
EEEEEEEEEEEEEEEE   RRRRRRRRRRRR       FFFFFFFFFFFFFFFF
EEE                RRR         RRR    FFF
EEE                RRR         RRR    FFF
EEE                RRR         RRR    FFF
EEE                RRR         RRR    FFF
EEE                RRR         RRR    FFF
EEE                RRR         RRR    FFF
EEEEEEEEEEEE       RRRRRRRRRRRR       FFFFFFFFFFF
EEEEEEEEEEEE       RRRRRRRRRRRR       FFFFFFFFFFF
EEEEEEEEEEEE       RRRRRRRRRRRR       FFFFFFFFFFF
EEE                RRR    RRR         FFF
EEE                RRR    RRR         FFF
EEE                RRR    RRR         FFF
EEE                RRR      RRR       FFF
EEE                RRR       RRR      FFF
EEE                RRR       RRR      FFF
EEEEEEEEEEEEEEEE   RRR         RRR    FFF
EEEEEEEEEEEEEEEE   RRR         RRR    FFF
EEEEEEEEEEEEEEEE   RRR         RRR    FFF
```

```
   CCCCCCCC   RRRRRRRR   YY      YY   PPPPPPPP   TTTTTTTTTT  KK      KK
   CCCCCCCC   RRRRRRRR   YY      YY   PPPPPPPP   TTTTTTTTTT  KK      KK
CC             RR    RR  YY      YY   PP    PP       TT      KK      KK
CC             RR    RR  YY      YY   PP    PP       TT      KK      KK
CC             RR    RR    YY  YY     PP    PP       TT      KK    KK
CC             RR    RR    YY  YY     PP    PP       TT      KK   KK
CC             RRRRRRRR       YY      PPPPPPPP       TT      KKKKK
CC             RRRRRRRR       YY      PPPPPPPP       TT      KKKKK
CC             RR  RR         YY      PP             TT      KK  KK
CC             RR  RR         YY      PP             TT      KK  KK
CC             RR    RR       YY      PP             TT      KK    KK
CC             RR    RR       YY      PP             TT      KK    KK    ....
   CCCCCCCC    RR    RR       YY      PP             TT      KK    KK    ....
   CCCCCCCC    RR    RR       YY      PP             TT      KK    KK    ....


LL              IIIIII      SSSSSSSS
LL              IIIIII      SSSSSSSS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II        SSSSSS
LL                II        SSSSSS
LL                II              SS
LL                II              SS
LL                II              SS
LL                II              SS
LLLLLLLLLL      IIIIII    SSSSSSSS
LLLLLLLLLL      IIIIII    SSSSSSSS
```

```
0001              SUBROUTINE CRYPTK (LUN,SIZE,NUMREG,REGISTERS,REG_HERALD,NAME,UNIT)      034
0002        C                                                                            034
0003        C Version:        'V04-000'                                                  034
0004        C                                                                            034
0005        C*******************************************************************         034
0006        C*                                                                *          034
0007        C*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                       *          035
0008        C*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.        *          035
0009        C*  ALL RIGHTS RESERVED.                                          *          035
0010        C*                                                                *          035
0011        C*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *  035
0012        C*  ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH  LICENSE  AND WITH THE *  035
0013        C*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER *  035
0014        C*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *  035
0015        C*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY *  035
0016        C*  TRANSFERRED.                                                   *          035
0017        C*                                                                *          036
0018        C*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE *  036
0019        C*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT *  036
0020        C*  CORPORATION.                                                   *          036
0021        C*                                                                *          036
0022        C*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS *  036
0023        C*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.        *          036
0024        C*                                                                *          036
0025        C*                                                                *          036
0026        C*******************************************************************         036
0027        C                                                                            037
0028        C                                                                            037
0029        C                                                                            037
0030        C        AUTHOR  BRIAN PORTER              CREATION DATE    18-SEP-1979       037
0031        C                                                                            037
0032        C                                                                            037
0033        C        Modified by:                                                        037
0034        C                                                                            037
0035        C        V03-001 SAR0240          Sharon A. Reynolds,     2-Apr-1984         037
0036        C                Changed references to TOF routine to FRCTOF, function       037
0037        C                performed by the routine is the same.                       038
0038        C                                                                            038
0039        C        V02-001 SR0001          Sharon Reynolds, 19-Nov-1980                038
0040        C                Added a flag to allow the BRIEF module to know that it      038
0041        C                was called from CRYPTK to fix the problem of the device     038
0042        C                registers being printed twice on the cryptk report.         038
0043        C                                                                            038
0044        C**                                                                          038
0045                                                                                     038
0046              INCLUDE 'SRC$:SYECOM.FOR /NOLIST'                                       038
0174                                                                                     039
0175              BYTE            LUN                                                     039
0176                                                                                     039
0177              BYTE            NUMREG                                                  039
0178                                                                                     039
0179              BYTE            SIZE                                                    039
0180                                                                                     039
0181              INTEGER*2       UNIT                                                    039
0182                                                                                     039
0183              INTEGER*4       REGISTERS(0:NUMREG-1)                                   039
0184                                                                                     040
```

```
0185              INTEGER*4       FIELD
0186
0187              CHARACTER*(*)   REG_HERALD(0:NUMREG-1)
0188
0189              CHARACTER*3     NAME
0190
0191
0192
0193
0194              Cryptk_flag = .true.
0195
0196              FIELD = LIB$LP_LINES()
0197
0198              IF ((LINES .EQ. 1)
0199             1 .OR.
0200             2 ((FORMS)
0201             3  .AND.
0202             4 (LINES .EQ. (FIELD - 3)))
0203             5 .OR.
0204             6 ((.NOT. FORMS)
0205             7 .AND.
0206             8 (LINES .EQ. 20))) THEN
0207
0208              IF (FORMS) CALL FRCTOF (LUN)
0209
0210              IF (SIZE .EQ. 16) THEN
0211
0212              CALL BRIEF16 (LUN,NUMREG,REGISTERS,REG_HERALD,NAME,UNIT)
0213
0214              ELSE IF (SIZE .EQ. 32) THEN
0215
0216              CALL BRIEF32 (LUN,NUMREG,REGISTERS,REG_HERALD,NAME,UNIT)
0217              ENDIF
0218
0219              IF (.NOT. FORMS) LINES = 3
0220              ENDIF
0221
0222              IF (SIZE .EQ. 16) THEN
0223
0224              CALL BRIEF16_A (LUN,NUMREG,REGISTERS)
0225
0226              ELSE IF (SIZE .EQ. 32) THEN
0227
0228              CALL BRIEF32_A (LUN,NUMREG,REGISTERS)
0229              ENDIF
0230
0231              RETURN
0232
0233              END
```

PROGRAM SECTIONS

    Name   Bytes   Attributes

    0 $CODE   290   PIC CON REL LCL   SHR   EXE   RD NOWRT LONG
    2 $LOCAL   152   PIC CON REL LCL NOSHR NOEXE   RD   WRT LONG
    3 $YECOM   44   PIC OVR REL GBL   SHR NOEXE   RD   WRT LONG

      Total Space Allocated   486

ENTRY POINTS

    Address Type Name

    0-00000000   CRYPTK

VARIABLES

    Address   Type Name   Address   Type Name

    3-00000012 L*1 CP_11750   3-00000011 L*1 CP_11780
    3-00000013 L*1 CP_11722   3-00000014 L*4 CRYPTK_FLAG
    3-0000000D I*4 DEV_CHAR   3-0000001E L*1 END_VALUE
    3-0000001D L*1 EOF_FLAG   2-00000000 I*4 FIELD
    3-00000004 L*4 FORMS   3-0000000C L*1 LINES
    3-00000027 I*4 LSTLUN   AP-00000004a L*1 LUN
    3-0000001F I*4 MAILBOX_CHANNEL   AP-00000018a CHAR NAME
    AP-0000000Ca L*1 NUMREG   3-0000002B CHAR OPTIONS
    3-00000008 L*4 PRINTER   3-00000000 I*4 RECCNT
    3-00000023 I*4 RECORD_SIZE   AP-00000008a L*1 SIZE
    AP-0000001Ca I*2 UNIT   3-00000019 L*1 VALID_CLASS
    3-0000001A L*1 VALID_CPU   3-0000001B L*1 VALID_ENTRY
    3-0000001C L*1 VALID_TYPE   3-00000018 L*1 VOLUME_OUTPUT

ARRAYS

    Address   Type Name   Bytes Dimensions

    AP-00000010a I*4 REGISTERS   **   (0:*)
    AP-00000014a CHAR REG_HERALD   **   (0:*)

FUNCTIONS AND SUBROUTINES REFERENCED

    Type Name   Type Name   Type Name   Type Name   Type Name   Type Name

          BRIEF16   BRIEF16_A   BRIEF32   BRIEF32_A   FRCTOF   I*4 LIB$LP_LINES

COMMAND QUALIFIERS

  FORTRAN /LIS=LIS$:CRYPTK/OBJ=OBJ$:CRYPTK MSRC$:CRYPTK

  /CHECK=(NOBOUNDS,OVERFLOW,NOUNDERFLOW)
  /DEBUG=(NOSYMBOLS,TRACEBACK)
  /STANDARD=(NOSYNTAX,NOSOURCE_FORM)
  /SHOW=(NOPREPROCESSOR,NOINCLUDE,MAP)
  /F77 /NOG_FLOATING /I4 /OPTIMIZE /WARNINGS /NOD_LINES /NOCROSS_REFERENCE /NOMACHINE_CODE /CONTINUATIONS=19

COMPILATION STATISTICS

  Run Time: 1.74 seconds
  Elapsed Time: 5.52 seconds
  Page Faults: 105
  Dynamic Memory: 170 pages

CLASSIFY
LIS

DR750
LIS

CSTRING
LIS

DHEADS
LIS

DR780
LIS

DR11W
LIS

COMPRESS
LIS

DTAILS
LIS

DECODECC
LIS

DUMPREG
LIS

DUTUDRIVR
LIS

CALCMAP
LIS

DUP3271
LIS

CRYPTK
LIS

DQDISKS
LIS

DUP11
LIS