```
CCCCCCCCCCC  LLL                 DDDDDDDDDD
CCCCCCCCCCC  LLL                 DDDDDDDDDDD
CCCCCCCCCCC  LLL                 DDDDDDDDDDD
CCC          LLL                 DDD      DDD
CCC          LLL                 DDD      DDD
CCC          LLL                 DDD      DDD
CCC          LLL                 DDD      DDD
CCC          LLL                 DDD      DDD
CCC          LLL                 DDD      DDD
CCC          LLL                 DDD      DDD
CCC          LLL                 DDD      DDD
CCC          LLL                 DDD      DDD
CCC          LLL                 DDD      DDD
CCC          LLL                 DDD      DDD
CCC          LLL                 DDD      DDD
CCC          LLL                 DDD      DDD
CCC          LLL                 DDD      DDD
  CCCCCCCCCCC  LLLLLLLLLLLLLLLL  DDDDDDDDDD
  CCCCCCCCCCC  LLLLLLLLLLLLLLLL  DDDDDDDDDDD
  CCCCCCCCCCC  LLLLLLLLLLLLLLLL  D. DDDDDDDDD
```

```
EEEEEEEEEE  NN      NN   CCCCCCC   RRRRRRR    YY      YY   PPPPPPP    TTTTTTTTTT
EEEEEEEEEE  NN      NN   CCCCCCCC  RRRRRRRR   YY      YY   PPPPPPPP   TTTTTTTTTT
EE          NN      NN  CC         RR     RR  YY      YY   PP      PP     TT
EE          NN      NN  CC         RR     RR  YY      YY   PP      PP     TT
EE          NNNN    NN  CC         RR     RR    YY  YY     PP      PP     TT
EE          NNNN    NN  CC         RR     RR    YY  YY     PP      PP     TT
EEEEEEEE    NN  NN  NN  CC         RRRRRRR       YY        PPPPPPPP       TT
EEEEEEEE    NN  NN  NN  CC         RRRRRRR       YY        PPPPPPPP       TT
EE          NN    NNNN  CC         RR  RR        YY        PP             TT
EE          NN    NNNN  CC         RR  RR        YY        PP             TT
EE          NN      NN  CC         RR    RR      YY        PP             TT
EE          NN      NN  CC         RR    RR      YY        PP             TT    ....
EEEEEEEEEE  NN      NN   CCCCCCC   RR      RR    YY        PP             TT    ....
EEEEEEEEEE  NN      NN   CCCCCCCC  RR      RR    YY        PP             TT    ....
```

```
    CCCCCCC   LL          DDDDDDD
    CCCCCCC   LL          DDDDDDD
CC            LL          DD     DD
CC            LL          DD     DD
CC            LL          DD     DD
CC            LL          DD     DD
CC            LL          DD     DD
CC            LL          DD     DD
CC            LL          DD     DD
CC            LL          DD     DD
CC            LL          DD     DD
    CCCCCCC   LLLLLLLLLL  DDDDDDD
    CCCCCCC   LLLLLLLLLL  DDDDDDD
```

```
!       Title encrypt.cld Command Definition for ENCRYPT/DECRYPT
!       Version 'V04-000'

!
! Modified by:
!
!       V01-002 MSH0073         Michael S. Harvey      15-Aug-1984
!               Add support for /JOB qualifier.
!
!       V01-001 JEP0004         J. Eric Pollack        12-Aug-1983
!               Revise syntax. Remove /supermode...
!
!
!
! Command definition for the VAX/VMS ENCRYPTION Facility
!
!
! define the type for the /ALGORITHM= list
!
DEFINE TYPE algorithm_option
        KEYWORD DES,
        KEYWORD DESECB,
        KEYWORD DESCBC,default
        KEYWORD DESCFB,
        KEYWORD DESDAC,
        KEYWORD RSA,
        KEYWORD ALC,
        KEYWORD VPA,
        KEYWORD NUL
!
! Define the syntax of the facility command to define encryption keys
!
define syntax create_encrypt_key
        qualifier CREATE_KEY,default
        parameter p1,prompt="Key Name",value(required,type=$inlog)
        parameter p2,prompt="Key Value",value(required,type=$outlog)
        qualifier compress
        qualifier group
        qualifier hexadecimal,negatable,value(default=NOHEXADECIMAL)
!3      qualifier hexadecimal,value(default=NOHEXADECIMAL)
        qualifier log
        qualifier parity
        qualifier process,default
        qualifier system
        qualifier job
        disallow any2(system,group,process,job)
        disallow hexadecimal and compress
        disallow hexadecimal and parity
!
! Define the syntax of the facility command to delete encryption keys
!
define syntax eliminate_encrypt_key
        qualifier REMOVE_KEY,default
!3      qualifier CREATE_KEY,negatable,value(default="NOCREATE_KEY")
```

```
        qualifier CREATE_KEY,value(default="NOCREATE_KEY")
        parameter p1,prompt="Key Name",value(required,type=$inlog)
        qualifier system
        qualifier group
        qualifier job
        qualifier process,default
        qualifier log
        disallow any2(system,group,process,job)
!
! Define the syntax of the facility command to test the encryption interfaces
!
DEFINE SYNTAX syntax_test
        QUALIFIER TEST_FACILITY,default
!3      qualifier CREATE_KEY,negatable,value(default="NOCREATE_KEY")
!3      qualifier REMOVE_KEY,negatable,value(default="NOREMOVE_KEY")
        qualifier CREATE_KEY,value(default="NOCREATE_KEY")
        qualifier REMOVE_KEY,value(default="NOREMOVE_KEY")
        QUALIFIER algorithm, VALUE(LIST,
                        TYPE=algorithm_option)
        QUALIFIER input,  DEFAULT, VALUE(DEFAULT="SYS$INPUT",TYPE=$INFILE)
        QUALIFIER log
        QUALIFIER output, DEFAULT, VALUE(DEFAULT="SYS$OUTPUT",TYPE=$OUTFILE)
        QUALIFIER select, VALUE(LIST,DEFAULT="QUICK")
        NOPARAMETERS
!
! Define the root commands
!
DEFINE VERB ENCRYPT
        IMAGE encrypfac
        QUALIFIER CREATE_KEY,SYNTAX = create_encrypt_key
        QUALIFIER REMOVE_KEY,SYNTAX = eliminate_encrypt_key
        QUALIFIER TEST_FACILITY,SYNTAX = syntax_test
        QUALIFIER log
        PARAMETER P1,
                LABEL=INPUT,
                PROMPT="Input File(s)",
                VALUE(REQUIRED,LIST)
        PARAMETER P2,
                LABEL=KEY,
                PROMPT="Key Name",
                VALUE(REQUIRED,TYPE=$INLOG)
        QUALIFIER algorithm,
                VALUE(LIST,TYPE=algorithm_option)
        QUALIFIER delete
        QUALIFIER erase
        QUALIFIER output,
                DEFAULT,
                VALUE(TYPE=$OUTFILE)
        QUALIFIER statistics
        qualifier confirm
        qualifier exclude,value(list)
        qualifier before,value(default=today)
        qualifier since,value(default=today)
        qualifier by_owner,value(type=$uic)

DEFINE VERB DECRYPT
```

```
        IMAGE encrypfac
        PARAMETER P1,
                LABEL=INPUT,
                PROMPT="Input File(s)",
                VALUE(REQUIRED,LIST)
        PARAMETER P2,
                LABEL=KEY,
                PROMPT="Key Name",
                VALUE(REQUIRED,TYPE=$INLOG)
        QUALIFIER algorithm,
                VALUE(LIST,TYPE=algorithm_option)
        QUALIFIER delete
        QUALIFIER erase
        QUALIFIER log
        QUALIFIER output,
                DEFAULT,
                VALUE(TYPE=$OUTFILE)
        QUALIFIER statistics
        qualifier confirm
        qualifier exclude,value(list)
        qualifier before,value(default=today)
        qualifier since,value(default=today)
        qualifier by_owner,value(type=$uic)
```

BACKUP CLD
DCLTABLES CLD
DISMOUNT CLD
ENCRYPT CLD
REPLY CLD

CLD
CREATE CLD
MCRINT CLD
SET CLD

DCLTABLES MAP
DEF CLD
DMO CLD
LIBRARIAN CLD
PASCAL CLD
RUN CLD

ACC CLD
BAD CLD

DCLINT CLD
DELETE CLD
DUMP CLD
EXCHANGE CLD
MCRTABLES CLD
PATCH CLD

CHECKSUM CLD

ANALYZE CLD
EDIT CLD
FORTRAN CLD
LINK CLD
MESSAGE CLD
PHONE CLD

CLISYM1 CLD
MCRSET CLD
RUNOFF CLD

PSECTS R32
DIFF CLD
MONITOR CLD
RECOVER CLD

MCRTABLES MAP
CONVERT CLD
HELP CLD
MACRO CLD

DIRECTORY CLD
SDL CLD

JNLUSR MAR
COPY CLD
EDT CLD
INIT CLD
MOUNT CLD
RENAME CLD

MAIL CLD
SEARCH CLD