```
FFFFFFFFFFFFFFF   DDDDDDDDDDD       LLL
FFFFFFFFFFFFFFF   DDDDDDDDDDD       LLL
FFFFFFFFFFFFFFF   DDDDDDDDDDD       LLL
FFF               DDD         DDD   LLL
FFF               DDD         DDD   LLL
FFF               DDD         DDD   LLL
FFF               DDD         DDD   LLL
FFF               DDD         DDD   LLL
FFF               DDD         DDD   LLL
FFFFFFFFFFFF      DDD         DDD   LLL
FFFFFFFFFFFF      DDD         DDD   LLL
FFFFFFFFFFFF      DDD         DDD   LLL
FFF               DDD         DDD   LLL
FFF               DDD         DDD   LLL
FFF               DDD         DDD   LLL
FFF               DDD         DDD   LLL
FFF               DDD         DDD   LLL
FFF               DDD         DDD   LLL
FFF               DDDDDDDDDDD       LLLLLLLLLLLLLLLL
FFF               DDDDDDDDDDD       LLLLLLLLLLLLLLLL
FFF               DDDDDDDDDDD       LLLLLLLLLLLLLLLL
```

```
      CCCCCCC   RRRRRRRR   EEEEEEEEEE      AAAAAA    TTTTTTTTTT   EEEEEEEEEE   FFFFFFFFF   DDDDDDDD   LL
      CCCCCCC   RRRRRRRR   EEEEEEEEEE      AAAAAA    TTTTTTTTTT   EEEEEEEEEE   FFFFFFFFF   DDDDDDDD   LL
    CC          RR     RR  EE            AA      AA      TT       EE           FF          DD     DD  LL
    CC          RR     RR  EE            AA      AA      TT       EE           FF          DD     DD  LL
    CC          RR     RR  EE            AA      AA      TT       EE           FF          DD     DD  LL
    CC          RRRRRRRR   EEEEEEE       AA      AA      TT       EEEEEEEE     FFFFFFFF    DD     DD  LL
    CC          RRRRRRR    EEEEEEE       AA      AA      TT       EEEEEEEE     FFFFFFFF    DD     DD  LL
    CC          RR   RR    EE          AAAAAAAAAA        TT       EE           FF          DD     DD  LL
    CC          RR    RR   EE          AAAAAAAAAA        TT       EE           FF          DD     DD  LL
    CC          RR     RR  EE            AA      AA      TT       EE           FF          DD     DD  LL
    CC          RR     RR  EE            AA      AA      TT       EE           FF          DD     DD  LL
      CCCCCCC   RR       RR EEEEEEEEEE    AA      AA      TT       EEEEEEEEEE   FF          DDDDDDDD   LLLLLLLLLL
      CCCCCCC   RR       RR EEEEEEEEEE    AA      AA      TT       EEEEEEEEEE   FF          DDDDDDDD   LLLLLLLLLL


    LL              IIIIII      SSSSSSSS
    LL              IIIIII      SSSSSSSS
    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
```

```
 1      0001  0 %TITLE   'VAX-11 RMS Utilities'
 2      0002  0 %SBTTL   'CREATEFDL - CREATE/FDL'
 3      0003  0 MODULE   CREATEFDL          ( IDENT='V04-000',
 4      0004  0                               ADDRESSING_MODE ( EXTERNAL = GENERAL ),
 5      0005  0                               OPTLEVEL=3,
 6      0006  0                               MAIN=START
 7      0007  0                               ) =
 8      0008  0
 9      0009  1 BEGIN
10      0010  1
11      0011  1 !************************************************************************
12      0012  1 !*                                                                      *
13      0013  1 !*   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                            *
14      0014  1 !*   DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.             *
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29      0029  1 !*   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.            *
30      0030  1 !*                                                                      *
31      0031  1 !*                                                                      *
32      0032  1 !************************************************************************
```

```
34    0033  1 !++
35    0034  1 !
36    0035  1 ! Facility:     VAX-11 RMS Utilities
37    0036  1 !
38    0037  1 ! Abstract:     DCL image for the CREATE/FDL command
39    0038  1 !
40    0039  1 !
41    0040  1 ! Environment:
42    0041  1 !
43    0042  1 !               VAX/VMS Operating System
44    0043  1 !
45    0044  1 !--
46    0045  1 !
47    0046  1 !
48    0047  1 ! Author:       Keith B Thompson      Creation date:  June-1981
49    0048  1 !
50    0049  1 !
51    0050  1 ! Modified by:
52    0051  1 !
53    0052  1 !     V03-003 KFH0002        Ken Henderson         22 Nov 1982
54    0053  1 !             Removed reference to FDL$AL_BLOCK
55    0054  1 !
56    0055  1 !     V03-002 KFH0001        Ken Henderson         21 Oct 1982
57    0056  1 !             Add flags arg to FDL$CREATE call.
58    0057  1 !
59    0058  1 !     V03-001 KBı0035        Keith Thompson        31-Mar-1982
60    0059  1 !             Change the ref. ctrl through fdl$al_block
61    0060  1 !
62    0061  1 !****
```

```
64     0062  1
65     0063  1  LIBRARY 'SYS$LIBRARY:STARLET';
66     0064  1  REQUIRE 'LIB$:FDLPARDEF';
67     0603  1  REQUIRE 'SRC$:FDLUTIL.REQ';
68     0788  1
69     0789  1  DEFINE_ERROR_CODES;
70     0790  1
71     0791  1  EXTERNAL ROUTINE
72     0792  1          FDL$CREATE,
73     0793  1          CLI$GET_VALUE,
74     0794  1          CLI$PRESENT;
```

```
  76   0795  1  %SBTTL  'Main Routine'
  77   0796  1  ROUTINE START   =
  78   0797  1  !++
  79   0798  1  !
  80   0799  1  ! Functional Description:
  81   0800  1  !
  82   0801  1  ! Calling Sequence:
  83   0802  1  !
  84   0803  1  !      DCL CREATE/FDL command
  85   0804  1  !
  86   0805  1  ! Input Parameters:
  87   0806  1  !
  88   0807  1  !      FDL file           - Required
  89   0808  1  !      Created file name  - Optional
  90   0809  1  !
  91   0810  1  ! Implicit Inputs:
  92   0811  1  !      none
  93   0812  1  !
  94   0813  1  ! Output Parameters:
  95   0814  1  !      none
  96   0815  1  !
  97   0816  1  ! Implicit Outputs:
  98   0817  1  !      none
  99   0818  1  !
 100   0819  1  ! Routine Value:
 101   0820  1  !      none
 102   0821  1  !
 103   0822  1  ! Side Effects:
 104   0823  1  !      none
 105   0824  1  !
 106   0825  1  !--
 107   0826  1
 108   0827  2     BEGIN
 109   0828  2
 110   0829  2     OWN
 111   0830  2        FDL_FILE_NAM   : DFSC_BLK PRESET( [ DSC$B_CLASS ] = DSC$K_CLASS_D,
 112   0831  2                                          [ DSC$B_DTYPE ] = DSC$K_DTYPE_T ),
 113   0832  2
 114   0833  2        FILE_NAM       : DESC_BLK PRESET( [ DSC$B_CLASS ] = DSC$K_CLASS_D,
 115   0834  2                                          [ DSC$B_DTYPE ] = DSC$K_DTYPE_T ),
 116   0835  2
 117   0836  2        RESULT_NAM     : DESC_BLK PRESET( [ DSC$B_CLASS ] = DSC$K_CLASS_D,
 118   0837  2                                          [ DSC$B_DTYPE ] = DSC$K_DTYPE_T );
 119   0838  2
 120   0839  2     LOCAL
 121   0840  2        FLAGS          : BLOCK [ 4,BYTE ],
 122   0841  2        STATUS,
 123   0842  2        LOG;
 124   0843  2
 125   0844  2     ! Indicate that this is being called from a dcl utility
 126   0845  2     ! but it's not an FDL STRING, and don't call us - we'll call you
 127   0846  2     !
 128   0847  2     FLAGS [ FDL$V_SIGNAL ] = SET;
 129   0848  2     FLAGS [ FDL$V_FDL_STRING ] = CLEAR;
 130   0849  2     FLAGS [ FDL$V_$CALLBACK ] = CLEAR;
 131   0850  2
 132   0851  2     ! Check f   the log qualifier
```

```
 133   0852  2        !
 134   0853  2        LOG = CLI$PRESENT ( DESCRIPTOR( 'LOG' ) );
 135   0854  2
 136   0855  2        ! Get the FDL file name
 137   0856  2        !
 138   0857  2        CLI$GET_VALUE( DESCRIPTOR( 'FDL_FILE' ),FDL_FILE_NAM );
 139   0858  2
 140   0859  2        ! If there was an output file name given pass it to create
 141   0860  2        !
 142   0861  2        IF CLI$GET_VALUE( DESCRIPTOR( 'FILE_NAME' ),FILE_NAM )
 143   0862  2        THEN
 144   0863  2            STATUS = FDL$CREATE ( FDL_FILE_NAM,FILE_NAM,0,RESULT_NAM,0,FLAGS )
 145   0864  2        ELSE
 146   0865  2            STATUS = FDL$CREATE ( FDL_FILE_NAM,0,0,RESULT_NAM,0,FLAGS );
 147   0866  2
 148   0867  2        IF .LOG AND .STATUS
 149   0868  2        THEN
 150   0869  2            SIGNAL( FDL$_CREATED,1,RESULT_NAM );
 151   0870  2
 152   0871  2        RETURN .STATUS
 153   0872  2
 154   0873  1        END;


                                        .TITLE   CREATEFDL VAX-11 FDL Utilities
                                        .IDENT   \V04-000\

                                        .PSECT   $PLIT$,NOWRT,NOEXE,2

                      47  4F  4C  00000 P.AAB:  .ASCII   \LOG\
                                 00003          .BLKB    1
                              00000003  00004 P.AAA:  .LONG    3
                              00000000' 00008         .ADDRESS P.AAB
             45  4C  49  46  5F  4C  44  46  0000C P.AAD:  .ASCII   \FDL_FILE\
                              00000008  00014 P.AAC:  .LONG    8
                              00000000' 00018         .ADDRESS P.AAD
         45  4D  41  4E  5F  45  4C  49  46  0001C P.AAF:  .ASCII   \FILE_NAME\
                                 00025          .BLKB    3
                              00000009  00028 P.AAE:  .LONG    9
                              00000000' 0002C         .ADDRESS P.AAF

                                        .PSECT   $OWN$,NOEXE,2

                      00#  00000 FDL_FILE_NAM:
                                         .BYTE    0[2]
                      02  0E  00002      .BYTE    14, 2
                              00004      .BLKB    4
                      00#  00008 FILE_NAM:
                                         .BYTE    0[2]
                      02  0E  0000A      .BYTE    14, 2
                              0000C      .BLKB    4
                      00#  00010 RESULT_NAM:
                                         .BYTE    0[2]
                      02  0E  00012      .BYTE    14, 2
                              00014      .BLKB    4

                                        .EXTRN   FDL$_FACILITY, FDL$_FAO_MAX
```

```
                                        .EXTRN    FDL$_ABKW, FDL$_ABPRIKW
                                        .EXTRN    FDL$_CREATE, FDL$_CREATED
                                        .EXTRN    FDL$_CREATEDSTM
                                        .EXTRN    FDL$_FDLERROR, FDL$_ILL_ARG
                                        .EXTRN    FDL$_INSVIRMEM, FDL$_INVBLK
                                        .EXTRN    FDL$_INVDATIM, FDL$_MULPRI
                                        .EXTRN    FDL$_MULSEC, FDL$_NOQUAL
                                        .EXTRN    FDL$_NULLPRI, FDL$_OPENFDL
                                        .EXTRN    FDL$_OUTORDER, FDL$_OPENOUT
                                        .EXTRN    FDL$_WRITEERR, FDL$_READERR
                                        .EXTRN    FDL$_RFLOC, FDL$_TITLE
                                        .EXTRN    FDL$_SYNTAX, FDL$_VALPRI
                                        .EXTRN    FDL$_UNQUAKW, FDL$_UNPRIKW
                                        .EXTRN    FDL$_UNSECKW, FDL$_WARNING
                                        .EXTRN    FDL$CREATE, CLI$GET_VALUE
                                        .EXTRN    CLI$PRESENT

                                        .PSECT    $CODE$,NOWRT,2

                    003C  00000  START:  .WORD     Save R2,R3,R4,R5              0796
      55 00000000G  00    9E 00002       MOVAB     CLI$GET_VALUE, R5
      54    0000'   CF    9E 00009       MOVAB     RESULT_NAM, R4
      5E           04    C2 0000E        SUBL2     #4, SP
      6E           01    88 00011        BISB2     #1, FLAGS               0847
      6E           12    8A 00014        BICB2     #18, FLAGS              0849
            0000'   CF    9F 00017        PUSHAB    P.AAA                  0853
   00000000G  00   01    FB 0001B        CALLS     #1, CLI$PRESENT
      53           50    D0 00022        MOVL      R0, LOG
      F0    A4    9F 00025              PUSHAB    FDL_FILE_NAM            0857
            0000'   CF    9F 00028        PUSHAB    P.AAC
      65           02    FB 0002C        CALLS     #2, CLI$GET_VALUE
      F8    A4    9F 0002F              PUSHAB    FILE_NAM               0861
            0000'   CF    9F 00032        PUSHAB    P.AAE
      65           02    FB 00036        CALLS     #2, CLI$GET_VALUE
      0D           50    E9 00039        BLBC      R0, 1$
      5E           DD 0003C            PUSHL     SP                     0863
      7E           D4 0003E            CLRL      -(SP)
      54           DD 00040            PUSHL     R4
      7E           D4 00042            CLRL      -(SP)
      F8    A4    9F 00044              PUSHAB    FILE_NAM
      08           11 00047            BRB       2$
      5E           DD 00049 1$:         PUSHL     SP                     0865
      7E           D4 0004B            CLRL      -(SP)
      54           DD 0004D            PUSHL     R4
      7E           7C C004F            CLRQ      -(SP)
      F0    A4    9F 00051 2$:         PUSHAB    FDL_FILE_NAM
   00000000G  00   06    FB 00054        CALLS     #6, FDL$CREATE
      52           50    D0 0005B        MOVL      R0, STATUS
      14           53    E9 0005E        BLBC      LOG, 3$                0867
      11           52    E9 00061        BLBC      STATUS, 3$
      54           DD 00064            PUSHL     R4                     0869
      01           DD 00066            PUSHL     #1
            0000000G  8F    DD 00068    PUSHL     #FDL$_CREATED
   00000000G  00   03    FB 0006E        CALLS     #3, LIB$SIGNAL
      50           52    D0 00075 3$:    MOVL      STATUS, R0             0871
                   04 00078            RET                            0873
```

; Routine Size: 121 bytes,   Routine Base: $CODE$ + 0000

; 155   0874 1
; 156   0875 0 END   ELUDOM

                                                                .EXTRN   LIB$SIGNAL

                                           PSECT SUMMARY

              Name   Bytes   Attributes

         OWN 24 NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
         $PLIT$ 48 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
         $CODE$ 121 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

                                 Library Statistics

                                      -------- Symbols --------   Pages   Processing
              File   Total   Loaded   Percent   Mapped   Time

 : _255DUA28:[SYSLIB]STARLET.L32;1   9776   10   0   581   00:01.0

                                 COMMAND QUALIFIERS

 :   BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:CREATEFDL/OBJ=OBJ$:CREATEFDL MSRC$:CREATEFDL/UPDATE=(ENH$:CREATEFDL)

 : Size: 121 code + 72 data bytes
 : Run Time: 00:08.0
 : Elapsed Time: 00:30.7
 : Lines/CPU Min: 6578
 : Lexemes/CPU-Min: 29526
 : Memory Used: 115 pages
 : Compilation Complete

FDLDATA
LIS

FDLUTIL
REQ

FDLSHR   FDLPARDEF
MAP   SDL

FDLCALL
LIS

CREATEFDL   FDLDRIVER
LIS   LIS

FDLSHR

FDLGEN
LIS