```
DDDDDDDDDDDD        IIIIIIIII       SSSSSSSSSSS  MMM         MMM     OOOOOOOOO     UUU         UUU
DDDDDDDDDDDD        IIIIIIIII       SSSSSSSSSSS  MMM         MMM     OOOOOOOOO     UUU         UUU
DDDDDDDDDDDD        IIIIIIIII       SSSSSSSSSSS  MMM         MMM     OOOOOOOOO     UUU         UUU
DDD         DDD        III        SSS           MMMMMM   MMMMMM  OOO         OOO   UUU         UUU
DDD         DDD        III        SSS           MMMMMM   MMMMMM  OOO         OOO   UUU         UUU
DDD         DDD        III        SSS           MMMMMM   MMMMMM  OOO         OOO   UUU         UUU
DDD         DDD        III        SSS           MMM  MMM  MMM  OOO         OOO   UUU         UUU
DDD         DDD        III        SSS           MMM  MMM  MMM  OOO         OOO   UUU         UUU
DDD         DDD        III        SSS           MMM  MMM  MMM  OOO         OOO   UUU         UUU
DDD         DDD        III           SSSSSSSSS  MMM       MMM  OOO         OOO   UUU         UUU
DDD         DDD        III           SSSSSSSSS  MMM       MMM  OOO         OOO   UUU         UUU
DDD         DDD        III           SSSSSSSSS  MMM       MMM  OOO         OOO   UUU         UUU
DDD         DDD        III                  SSS MMM       MMM  OOO         OOO   UUU         UUU
DDD         DDD        III                  SSS MMM       MMM  OOO         OOO   UUU         UUU
DDD         DDD        III                  SSS MMM       MMM  OOO         OOO   UUU         UUU
DDD         DDD        III                  SSS MMM       MMM  OOO         OOO   UUU         UUU
DDD         DDD        III                  SSS MMM       MMM  OOO         OOO   UUU         UUU
DDDDDDDDDDDD        IIIIIIIII       SSSSSSSSSSS  MMM       MMM     OOOOOOOOO     UUUUUUUUUUUUUUUU
DDDDDDDDDDDD        IIIIIIIII       SSSSSSSSSSS  MMM       MMM     OOOOOOOOO     UUUUUUUUUUUUUUUU
DDDDDDDDDDDD        IIIIIIIII       SSSSSSSSSSS  MMM       MMM     OOOOOOOOO     UUUUUUUUUUUUUUUU
```

```
CL
CL
CL
CL
CL
CL
CL
CL
CL
CL
CL
CL
DI
LI
LI
LI
LI
LI
LI
LI
LI
LI
LI
LI
LI
ST
ST
ST
ST
ST
ST
ST
ST
ST
ST
ST
ST
ST
SY
SY
SY
SY
SY
SY
```

```
DDDDDDDD      IIIIII      SSSSSSSS  PPPPPPPP      AAAAAA    RRRRRRRR
DDDDDDDD      IIIIII      SSSSSSSS  PPPPPPPP     AAAAAA     RRRRRRRR
DD      DD      II      SS          PP      PP  AA      AA  RR      RR
DD      DD      II      SS          PP      PP  AA      AA  RR      RR
DD      DD      II      SS          PP      PP  AA      AA  RR      RR
DD      DD      II      SS          PP      PP  AA      AA  RR      RR
DD      DD      II        SSSSSS    PPPPPPPP    AA      AA  RRRRRRRR
DD      DD      II        SSSSSS    PPPPPPPP    AA      AA  RRRRRRRR
DD      DD      II              SS  PP          AAAAAAAAAA  RR  RR
DD      DD      II              SS  PP          AAAAAAAAAA  RR  RR
DD      DD      II              SS  PP          AA      AA  RR    RR        ....
DD      DD      II              SS  PP          AA      AA  RR    RR        ....
DDDDDDDD      IIIIII    SSSSSSSS    PP          AA      AA  RR      RR      ....
DDDDDDDD      IIIIII    SSSSSSSS    PP          AA      AA  RR      RR      ....

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
```

```
;     1        0001  0 MODULE DISPAR (
;     2        0002  0                 MAIN = DISMOUNT_PARSE,
;     3        0003  0                 LANGUAGE (BLISS32),
;     4        0004  0                 IDENT = 'V04-000'
;     5        0005  0                 ) =
;     6        0006  1 BEGIN
;     7        0007  1
;     8        0008  1 !
;     9        0009  1 !*****************************************************************************
;    10        0010  1 !*                                                                           *
;    11        0011  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                  *
;    12        0012  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                    *
;    13        0013  1 !*  ALL RIGHTS RESERVED.                                                      *
;    14        0014  1 !*                                                                           *
;    15        0015  1 !*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED   *
;    16        0016  1 !*  ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE          *
;    17        0017  1 !*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER     *
;    18        0018  1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY   *
;    19        0019  1 !*  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY       *
;    20        0020  1 !*  TRANSFERRED.                                                              *
;    21        0021  1 !*                                                                           *
;    22        0022  1 !*  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE     *
;    23        0023  1 !*  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT         *
;    24        0024  1 !*  CORPORATION.                                                              *
;    25        0025  1 !*                                                                           *
;    26        0026  1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS     *
;    27        0027  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                   *
;    28        0028  1 !*                                                                           *
;    29        0029  1 !*                                                                           *
;    30        0030  1 !*****************************************************************************
;    31        0031  1
;    32        0032  1 !++
;    33        0033  1 !
;    34        0034  1 ! FACILITY:  MOUNT Utility Structure Level 1
;    35        0035  1 !
;    36        0036  1 ! ABSTRACT:
;    37        0037  1 !
;    38        0038  1 !       This module contains the data base and utilities used to acquire the
;    39        0039  1 !       DISMOUNT command line from the CLI parser.
;    40        0040  1 !
;    41        0041  1 ! ENVIRONMENT:
;    42        0042  1 !
;    43        0043  1 !       STARLET operating system, including privileged system services
;    44        0044  1 !       and internal exec routines.
;    45        0045  1 !
;    46        0046  1 !--
;    47        0047  1 !
;    48        0048  1 !
;    49        0049  1 ! AUTHOR:  Andrew C. Goldstein,  CREATION DATE:  24-Oct-1977  10:45
;    50        0050  1 !
;    51        0051  1 ! MODIFIED BY:
;    52        0052  1 !
;    53        0053  1 !       V03-003 HH0004          Hai Huang                   28-Feb-1984
;    54        0054  1 !               Add cluster-wide mount support (/CLUSTER qualifier).
;    55        0055  1 !
;    56        0056  1 !       V03-002 HH0003          Hai Huang                   16-Feb-1984
;    57        0057  1 !               Add forced dismount support (/ABORT qualifier).
```

```
;    58          0058  1 !
;    59          0059  1 !       V03-001 MCN0134         Maria del C. Nasr       31-Oct-1983
;    60          0060  1 !               Change to new CLI interface.
;    61          0061  1 !
;    62          0062  1 !       V02-004 STJ0141         Steven T. Jeffreys      13-Nov-1981
;    63          0063  1 !               Change interface to use the $DISMOU system service to
;    64          0064  1 !               complete the dismount.  The version 2 command line
;    65          0065  1 !               parser must be used.
;    66          0066  1 !
;    67          0067  1 !       V02-003 PCG0001         Peter C. George         03-Feb-1981 10:00
;    68          0068  1 !               Change MOUNTMSG require to DISMOUMSG.
;    69          0069  1 !
;    70          0070  1 !       V02-002 ACG0181         Andrew C. Goldstein,    9-Oct-1980  16:01
;    71          0071  1 !               Fix cross facility source reference
;    72          0072  1 !
;    73          0073  1 !       X0101   ACG0003         Andrew C. Goldstein,  29-Nov-1978  20:32
;    74          0074  1 !       Add multi-volume disk support (/UNIT switch)
;    75          0075  1 !
;    76          0076  1 !       X0100   ACG0001         Andrew C. Goldstein,  24-Oct-1978  13:47
;    77          0077  1 !       Previous revision history moved to [DISMOU.SRC]DISMOUNT.REV
;    78          0078  1 !**
;    79          0079  1
;    80          0080  1
;    81          0081  1 LIBRARY 'SYS$LIBRARY:LIB.L32';
;    82          0082  1 REQUIRE 'LIB$:MOUDEF.B32';
;    83          0614  1 REQUIRE 'LIBD$:[VMSLIB.OBJ]DISMOUMSG.B32';
;    84          0691  1 LIBRARY 'SYS$LIBRARY:CLIMAC.L32';
;    85          0692  1 LIBRARY 'SYS$LIBRARY:TPAMAC.L32';
;    86          0693  1
```

```
;    88          0694  1
;    89          0695  1 ! CLI routines                                                                    MA
;    90          0696  1 !
;    91          0697  1
;    92          0698  1 EXTERNAL ROUTINE
;    93          0699  1     CLI$PRESENT,
;    94          0700  1     CLI$GET_VALUE;
;    95          0701  1
;    96          0702  1 ! Define descriptors for the CLI parser.
;    97          0703  1 !
;    98          0704  1
;    99          0705  1 BIND
;   100          0706  1     UNLOAD_DESC = $DESCRIPTOR ('UNLOAD'),
;   101          0707  1     UNIT_DESC   = $DESCRIPTOR ('UNIT'),
;   102          0708  1     ABORT_DESC  = $DESCRIPTOR ('ABORT'),
;   103          0709  1     CLUSTER_DESC= $DESCRIPTOR ('CLUSTER');
;   104          0710  1
;   105          0711  1
;   106          0712  1 ! CLI return status codes
;   107          0713  1 !
;   108          0714  1
;   109          0715  1 EXTERNAL LITERAL
;   110          0716  1     CLI$_PRESENT,
;   111          0717  1     CLI$_NEGATED,
;   112          0718  1     CLI$_DEFAULTED;
;   113          0719  1
```

```
;  115          0720  1 GLOBAL ROUTINE DISMOUNT_PARSE : NOVALUE =
;  116          0721  1
;  117          0722  1 !++
;  118          0723  1 !
;  119          0724  1 ! FUNCTIONAL DESCRIPTION:
;  120          0725  1 !
;  121          0726  1 !       This routine parses the DISMOUNT command line by calling the CLI
;  122          0727  1 !       result parse routines.
;  123          0728  1 !
;  124          0729  1 ! CALLING SEQUENCE:
;  125          0730  1 !       DISMOUNT_PARSE
;  126          0731  1 !
;  127          0732  1 ! INPUT PARAMETERS:
;  128          0733  1 !       None
;  129          0734  1 !
;  130          0735  1 ! IMPLICIT INPUTS:
;  131          0736  1 !       NONE
;  132          0737  1 !
;  133          0738  1 ! OUTPUT PARAMETERS:
;  134          0739  1 !       NONE
;  135          0740  1 !
;  136          0741  1 ! IMPLICIT OUTPUTS:
;  137          0742  1 !       Dismount status code
;  138          0743  1 !
;  139          0744  1 ! ROUTINE VALUE:
;  140          0745  1 !       NONE
;  141          0746  1 !
;  142          0747  1 ! SIDE EFFECTS:
;  143          0748  1 !       NONE
;  144          0749  1 !
;  145          0750  1 !--
;  146          0751  1
;  147          0752  2 BEGIN
;  148          0753  2
;  149          0754  2
;  150          0755  2 LOCAL
;  151          0756  2     DEVICE_DESC : $BBLOCK [DSC$C_S_BLN],        ! descriptor for device
;  152          0757  2     TEMP_MASK   : BITVECTOR [32],               ! mask for qualifiers
;  153          0758  2     STATUS;
;  154          0759  2
;  155          0760  2
;  156          0761  2 ! Initialize descriptor
;  157          0762  2 !
;  158          0763  2 CH$FILL (0, DSC$C_S_BLN, DEVICE_DESC);
;  159          0764  2 DEVICE_DESC [DSC$B_CLASS] = DSC$K_CLASS_D;
;  160          0765  2
;  161          0766  2 ! Get device name
;  162          0767  2 !
;  163          0768  2 CLI$GET_VALUE ( $DESCRIPTOR ('DEVICE'), DEVICE_DESC );
;  164          0769  2
;  165          0770  2 ! Initialize mask to hold the correct dismount option bits.
;  166          0771  2 !
;  167          0772  2 TEMP_MASK = 0;
;  168          0773  2
;  169          0774  2 ! Look for qualifiers, and set option bits accordingly.
;  170          0775  2 !
;  171          0776  2
```

```
;  172          0777  2 IF CLI$PRESENT ( UNIT_DESC )
;  173          0778  2 THEN
;  174          0779  2     TEMP_MASK [$BITPOSITION (DMT$V_UNIT)] = 1;
;  175          0780  2
;  176          0781  2 SELECTONE CLI$PRESENT ( UNLOAD_DESC ) OF
;  177          0782  2 SET
;  178          0783  2     [CLI$_PRESENT,
;  179          0784  2      CLI$_DEFAULTED] : TEMP_MASK [$BITPOSITION (DMT$V_NOUNLOAD)] = 0;
;  180          0785  2
;  181          0786  2     [CLI$_NEGATED]   : TEMP_MASK [$BITPOSITION (DMT$V_NOUNLOAD)] = 1;
;  182          0787  2 TES;
;  183          0788  2
;  184          0789  2
;  185          0790  2 IF CLI$PRESENT ( ABORT_DESC )
;  186          0791  2 THEN
;  187          0792  2     TEMP_MASK [$BITPOSITION (DMT$V_ABORT)] = 1;
;  188          0793  2
;  189          0794  2
;  190          0795  2 IF CLI$PRESENT ( CLUSTER_DESC )
;  191          0796  2 THEN
;  192          0797  2     TEMP_MASK [$BITPOSITION (DMT$V_CLUSTER)] = 1;
;  193          0798  2
;  194          0799  2
;  195          0800  2 ! Call the dismount system service to finish the dismount.
;  196          0801  2 !
;  197          0802  2
;  198          0803  2 STATUS = $DISMOU (DEVNAM=DEVICE_DESC, FLAGS=.TEMP_MASK);
;  199          0804  2
;  200          0805  2 $EXIT (CODE = .STATUS);
;  201          0806  2
;  202          0807  1 END;                                    ! end of routine DISMOUNT_PARSE


                                                .TITLE  DISPAR
                                                .IDENT  \V04-000\

                                                .PSECT  $PLIT$,NOWRT,NOEXE,2

                     44  41  4F  4C  4E  55  00000 P.AAB:   .ASCII  \UNLOAD\                ;
                                     00006              .BLKB   2
                                 00000006  00008 P.AAA:   .LONG   6                        ;
                                 00000000' 0000C          .ADDRESS P.AAB                  ;
                                 54  49  4E  55  00010 P.AAD:   .ASCII  \UNIT\             ;
                                 00000004  00014 P.AAC:   .LONG   4                        ;
                                 00000000' 00018          .ADDRESS P.AAD                  ;
                             54  52  4F  42  41  0001C P.AAF:   .ASCII  \ABORT\            ;
                                     00021              .BLKB   3
                                 00000005  00024 P.AAE:   .LONG   5                        ;
                                 00000000' 00028          .ADDRESS P.AAF                  ;
                 52  45  54  53  55  4C  43  0002C P.AAH:   .ASCII  \CLUSTER\             ;
                                     00033              .BLKB   1
                                 00000007  00034 P.AAG:   .LONG   7                        ;
                                 00000000' 00038          .ADDRESS P.AAH                  ;
                     45  43  49  56  45  44  0003C P.AAJ:   .ASCII  \DEVICE\             ;
                                     00042              .BLKB   2
                                 00000006  00044 P.AAI:   .LONG   6                        ;
                                 00000000' 00048          .ADDRESS P.AAJ                  ;
```

```
                                        UNLOAD_DESC=        P.AAA
                                        UNIT_DESC=          P.AAC
                                        ABORT_DESC=         P.AAE
                                        CLUSTER_DESC=       P.AAG
                                                .EXTRN  CLI$PRESENT, CLI$GET_VALUE
                                                .EXTRN  CLI$_PRESENT, CLI$_NEGATED
                                                .EXTRN  CLI$_DEFAULTED, SYS$DISMOU
                                                .EXTRN  SYS$EXIT

                                                .PSECT  $CODE$,NOWRT,2

                                    00FC 00000          .ENTRY  DISMOUNT_PARSE, Save R2,R3,R4,R5,R6,R7      ; 0720
                          57    0000G CF  9E 00002          MOVAB   CLI$PRESENT, R7                         ;
                          56    0000' CF  9E 00007          MOVAB   P.AAI, R6                               ;
                          5E          08  C2 0000C          SUBL2   #8, SP                                  ;
08              00        6E          00  2C 0000F          MOVC5   #0, (SP), #0, #8, DEVICE_DESC           ; 0763
                                        6E     00014                                                        ;
                       03 AE          02  90 00015          MOVB    #2, DEVICE_DESC+3                       ; 0764
                                4040  8F  BB 00019          PUSHR   #^M<R6,SP>                              ; 0768
                     0000G CF          02  FB 0001D          CALLS   #2, CLI$GET_VALUE                       ;
                                       52  D4 00022          CLRL    TEMP_MASK                               ; 0772
                             D0    A6  9F 00024          PUSHAB  UNIT_DESC                               ; 0777
                          67           01  FB 00027          CALLS   #1, CLI$PRESENT                         ;
                          03           50  E9 0002A          BLBC    R0, 1$                                  ;
                          52           02  88 0002D          BISB2   #2, TEMP_MASK                           ; 0779
                             C4    A6  9F 00030 1$:       PUSHAB  UNLOAD_DESC                             ; 0781
                          67           01  FB 00033          CALLS   #1, CLI$PRESENT                         ;
                00000000G  8F          50  D1 00036          CMPL    R0, #CLI$_PRESENT                       ; 0783
                                       09  13 0003D          BEQL    2$                                      ;
                00000000G  8F          50  D1 0003F          CMPL    R0, #CLI$_DEFAULTED                     ;
                                       05  12 00046          BNEQ    3$                                      ;
                          52           01  8A 00048 2$:       BICB2   #1, TEMP_MASK                           ; 0784
                                       0C  11 0004B          BRB     4$                                      ;
                00000000G  8F          50  D1 0004D 3$:       CMPL    R0, #CLI$_NEGATED                       ; 0786
                                       03  12 00054          BNEQ    4$                                      ;
                          52           01  88 00056          BISB2   #1, TEMP_MASK                           ;
                             E0    A6  9F 00059 4$:       PUSHAB  ABORT_DESC                              ; 0790
                          67           01  FB 0005C          CALLS   #1, CLI$PRESENT                         ;
                          03           50  E9 0005F          BLBC    R0, 5$                                  ;
                          52           04  88 00062          BISB2   #4, TEMP_MASK                           ; 0792
                             F0    A6  9F 00065 5$:       PUSHAB  CLUSTER_DESC                            ; 0795
                          67           01  FB 00068          CALLS   #1, CLI$PRESENT                         ;
                          03           50  E9 0006B          BLBC    R0, 6$                                  ;
                          52           08  88 0006E          BISB2   #8, TEMP_MASK                           ; 0797
                                       52  DD 00071 6$:       PUSHL   TEMP_MASK                               ; 0803
                          04       AE  9F 00073          PUSHAB  DEVICE_DESC                             ;
                00000000G  00          02  FB 00076          CALLS   #2, SYS$DISMOU                          ;
                                       50  DD 0007D          PUSHL   STATUS                                  ; 0805
                00000000G  00          01  FB 0007F          CALLS   #1, SYS$EXIT                            ;
                                           04 00086          RET                                             ; 0807

; Routine Size:  135 bytes,    Routine Base:  $CODE$ + 0000

;  203          0808  1
;  204          0809  1 END
```

```
;  205          0810  0 ELUDOM
```

```
;                                  PSECT SUMMARY
;
;       Name                    Bytes                       Attributes
;
;  $PLIT$                          76  NOVEC,NOWRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $CODE$                         135  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
```

```
;                               Library Statistics
;
;                                      -------- Symbols --------      Pages       Processing
;       File                           Total    Loaded   Percent      Mapped      Time
;
;  _$255$DUA28:[SYSLIB]LIB.L32;1        18619        23         0        1000        00:01.7
;  _$255$DUA28:[SYSLIB]CLIMAC.L32;1        14         0         0           9        00:00.1
;  _$255$DUA28:[SYSLIB]TPAMAC.L32;1        42         0         0          14        00:00.1
```

```
;                                  COMMAND QUALIFIERS

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

; Size:          135 code + 76 data bytes
; Run Time:          00:11.2
; Elapsed Time:      00:34.6
; Lines/CPU Min:      4327
; Lexemes/CPU-Min:  36005
; Memory Used:   103 pages
; Compilation Complete
```