DISMOU

```
DDDDDDD      IIIIII    SSSSSSSS   PPPPPPP      AAAAAA    RRRRRRR
DDDDDDD      IIIIII    SSSSSSSS   PPPPPPPP     AAAAAA    RRRRRRR
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   RRRRRRR
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     ....
DDDDDDD      IIIIII    SSSSSSSS   PP         AA    AA   RR    RR   ....
DDDDDDD      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
LLLLLLLLL    IIIIII    SSSSSSS
LLLLLLLLL    IIIIII    SSSSSSS
```

```
    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  ! CLI routines
89   0695  1  !
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$PRESENT
                      50       E9 0002A                   BLBC    R0, 1$
                03    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
```

CLUSUTIL
LIS

DMDRIVER
MAP

DRIVER

DRDRIVER
MAP

CNDRIVER
MAP

DYDRIVER
MAP

CRDRIVER
MAP

LCDRIVER
MAP

DBDRIVER
MAP

LOCKDB
LIS

DLDRIVER
MAP

DQDRIVER
MAP

DXDRIVER
MAP

DUDRIVER
MAP

CONINTERR
MAP

LADRIVER
MAP

DISPAR
LIS

CVDRIVER
MAP

LPDRIVER
MAP

DISMOU
LIS

DDDRIVER
MAP

DISMNTDSP
LIS