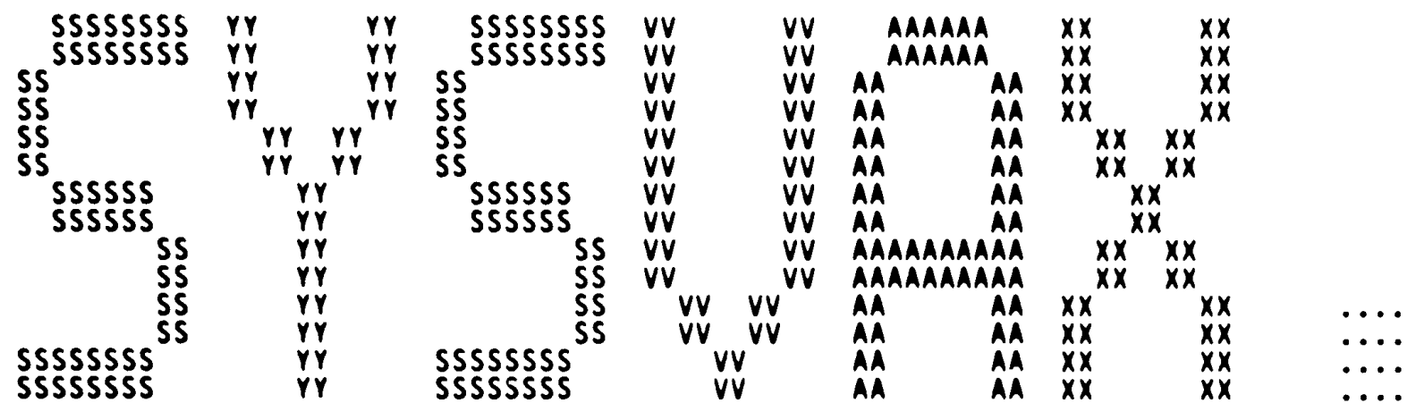
```
EEEEEEEEEEEEEEE  DDDDDDDDDDD     TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEE  DDDDDDDDDDDD    TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEE  DDDDDDDDDDDD    TTTTTTTTTTTTTTT
EEE              DDD         DDD       TTT
EEE              DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEEEEEEEEEEE     DDD          DDD      TTT
EEEEEEEEEEEE     DDD          DDD      TTT
EEEEEEEEEEEE     DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEEEEEEEEEEEEEE  DDDDDDDDDDD          TTT
EEEEEEEEEEEEEEE  DDDDDDDDDDDD         TTT
EEEEEEEEEEEEEEE  DDDDDDDDDDDD         TTT
EEEEEEEEEEEEEEE  DDDDDDDDDDDD         TTT
```


SSSSSSSS YY YY SSSSSSSS VV VV AAAAAA XX XX
SSSSSSSS YY YY SSSSSSSS VV VV AAAAAA XX XX
SS YY YY SS VV VV AA AA XX XX
SS YY YY SS VV VV AA AA XX XX
SS YY YY SS VV VV AA AA XX XX
SS YY YY SS VV VV AA AA XX XX
SSSSSS YY SSSSSS VV VV AA AA XX
SSSSSS YY SSSSSS VV VV AA AA XX
SS YY SS VV VV AAAAAAAAAA XX XX
SS YY SS VV VV AAAAAAAAAA XX XX
SS YY SS VV VV AA AA XX XX
SS YY SS VV VV AA AA XX XX
SSSSSSSS YY SSSSSSSS VV AA AA XX XX
SSSSSSSS YY SSSSSSSS VV AA AA XX XX
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 %TITLE 'EDT$SYSVAX - VAX/VMS system specific storage'
;  2     0002  0 MODULE EDT$SYSVAX (                             . VAX/VMS system specific storage
;  3     0003  0                     IDENT = 'V04-000'                       ! File: SYSVAX.B32 Edit: JBS2034
;  4     0004  0                     ) =
;  5     0005  1 BEGIN
;  6     0006  1 !
;  7     0007  1 !*****************************************************************************
;  8     0008  1 !*                                                                           *
;  9     0009  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                  *
; 10     0010  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                    *
; 11     0011  1 !*  ALL RIGHTS RESERVED.                                                     *
; 12     0012  1 !*                                                                           *
; 13     0013  1 !*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED   *
; 14     0014  1 !*  ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH  LICENSE  AND WITH THE  *
; 15     0015  1 !*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER   *
; 16     0016  1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY   *
; 17     0017  1 !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY   *
; 18     0018  1 !*  TRANSFERRED.                                                             *
; 19     0019  1 !*                                                                           *
; 20     0020  1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE   *
; 21     0021  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT   *
; 22     0022  1 !*  CORPORATION.                                                             *
; 23     0023  1 !*                                                                           *
; 24     0024  1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS   *
; 25     0025  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                  *
; 26     0026  1 !*                                                                           *
; 27     0027  1 !*                                                                           *
; 28     0028  1 !*****************************************************************************
; 29     0029  1 !
; 30     0030  1
; 31     0031  1 !++
; 32     0032  1 ! FACILITY:     EDT -- The DEC Standard Editor
; 33     0033  1 !
; 34     0034  1 ! ABSTRACT:
; 35     0035  1 !
; 36     0036  1 !       This module contains system specific code for the VAX/VMS
; 37     0037  1 !       environment.
; 38     0038  1 !
; 39     0039  1 ! ENVIRONMENT:  VAX/VMS only
; 40     0040  1 !
; 41     0041  1 ! AUTHOR: Bob Kushlis, CREATION DATE. March 22, 1979
; 42     0042  1 !
; 43     0043  1 ! MODIFIED BY:
; 44     0044  1 !
; 45     0045  1 ! Bob Kushlis, 10-JUL-1979
; 46     0046  1 !       Convert the case of the file names.
; 47     0047  1 ! John Sauter, 19-Dec-1980, 02
; 48     0048  1 !       Add tracing.
; 49     0049  1 ! 2-003 - Regularize the headers.  JBS 19-Feb-1981
; 50     0050  1 ! 2-004 - Allocate an event flag for the "working" message, and make it
; 51     0051  1 !         cancel only its own timers.  JBS 19-Feb-198
; 52     0052  1 ! 2-005 - Fix module header and certain symbols.  JBS 30-Mar-1981
; 53     0053  1 ! 2-006 - Stop the "working" message only if it is running.  JBS 02-Apr-1981
; 54     0054  1 ! 2-007 - Implement the virtual deallocation routine. TMV 6-Aug-81
; 55     0055  1 ! 2-008 - EDT$$ALO_HEAP  should return 1 if successful, 0 if not.
; 56     0056  1 !         JBS 07-Aug-1981
; 57     0057  1 ! 2-009 - Remove calls to LIB$SHOW_VM.  JBS 21-Aug-1981
```

```
;    58          0058  1 ! 2-010 - Add date/time routine. STS 02-Sep-1981
;    59          0059  1 ! 2-011 - Add deallocation of text string area. STS 06-Oct-1981
;    60          0060  1 ! 2-012 - Always do deallocation of text and entity string areas. STS 06-Nov-1981
;    61          0061  1 ! 2-013 - Add global for SET,SHOW HELP command.  SMB 16-Dec-1981
;    62          0062  1 ! 2-014 - Revise timer AST logic.  JBS 13-Jan-1982
;    63          0063  1 ! 2-015 - Change 32-bit lines to 48_bit.  SMB 16-Jan-1982
;    64          0064  1 ! 2-016 - Move line number declarations to DATA.BLI.  SMB 29-Jan-1982
;    65          0065  1 ! 2-017 - Take out extra space in date when day is single digit. STS 02-Feb-1982
;    66          0066  1 ! 2-018 - Fix a race condition in timer AST logic.  JBS 10-Feb-1982
;    67          0067  1 ! 2-019 - Take out call to sy$exit. STS 19-Feb-1982
;    68          0068  1 ! 2-020 - Add edt$$z_wf_desc to deallocation list. STS 09-Mar-1982
;    69          0069  1 ! 2-021 - Define the default startup file names.  JBS 18-Mar-1982
;    70          0070  1 ! 2-022 - Correct the length of EDTINI.  JBS 08-Apr-1982
;    71          0071  1 ! 2-023 - Change the HELP file default name.  SMB 10-May-1982
;    72          0072  1 ! 2-024 - Put the default startup file on SYS$LIBRARY.  JBS 08-Jun-1982
;    73          0073  1 ! 2-025 - Erase the working message line in STOP_WKINGMSG.  SMB 28-Jun-1982
;    74          0074  1 ! 2-026 - New implementation of defined keys.  JBS 12-Aug-1982
;    75          0075  1 ! 2-027 - Change the command file name.  JBS 23-Aug-1982
;    76          0076  1 ! 2-028 - Change the command file name again.  JBS 17-Sep-1982
;    77          0077  1 ! 2-029 - Change EDT$$FMT_LIT to EDT$$FMT_STR.  JBS 05-Oct-1982
;    78          0078  1 ! 2-030 - Remove deallocation of edt$$z_wf_desc. STS 11-Nov-1982
;    79          0079  1 ! 2-031 - Add a hack to debug insufficient memory problems.  JBS 15-Nov-1982
;    80          0080  1 ! 2-032 - Add a call to deassign terminal channel. STS 21-Dec-1982
;    81          0081  1 ! 2-033 - Deassign the terminal channel before halting trace, since the
;    82          0082  1 !             terminal deassign may output a keypad setting.  JBS 26-Apr-1983
;    83          0083  1 ! 2-034 - Improve the appearance of the listing.  JBS 17-Jun-1983
;    84          0084  1 !--
;    85          0085  1
```

```
;    87          0086  1 %SBTTL 'Declarations'
;    88          0087  1 !
;    89          0088  1 ! TABLE OF CONTENTS:
;    90          0089  1 !
;    91          0090  1
;    92          0091  1 REQUIRE 'EDTSRC:TRAROUNAM';
;    93          0530  1
;    94          0531  1 FORWARD ROUTINE
;    95          0532  1     EDT$$INTER_ERR : NOVALUE,
;    96          0533  1     EDT$$SYS_ERI : NOVALUE,
;    97          0534  1     EDT$$GET_DATE : NOVALUE,
;    98          0535  1     EDT$$ALO_HEAP,
;    99          0536  1     EDT$$DEA_HEAP : NOVALUE,
;   100          0537  1     EDT$$DEA_ALLHEAP : NOVALUE,
;   101          0538  1     WORKAST : NOVALUE,
;   102          0539  1     EDT$$START_WKINGMSG : NOVALUE,
;   103          0540  1     EDT$$STOP_WKINGMSG : NOVALUE,
;   104          0541  1     EDT$$MSG_TOSTR : NOVALUE;
;   105          0542  1
;   106          0543  1 !
;   107          0544  1 ! INCLUDE FILES:
;   108          0545  1 !
;   109          0546  1
;   110          0547  1 REQUIRE 'EDTSRC:SYSSYM';
;   111          0577  1
;   112          0578  1 REQUIRE 'EDTSRC:EDTREQ';
;   113          0713  1
;   114          0714  1 LIBRARY 'EDTSRC:KEYPADDEF';
;   115          0715  1
;   116          0716  1 REQUIRE 'TRACESEL';
;   117          0747  1
;   118          0748  1 REQUIRE 'EDTSRC:TRACEMAC';
;   119          0975  1
;   120          0976  1 !
;   121          0977  1 ! MACROS:
;   122          0978  1 !
;   123          0979  1 !       NONE
;   124          0980  1 !
;   125          0981  1 ! EQUATED SYMBOLS:
;   126          0982  1 !
;   127          0983  1 !       NONE
;   128          0984  1 !
;   129          0985  1 ! OWN STORAGE:
;   130          0986  1 !
;   131          0987  1
;   132          0988  1 GLOBAL
;   133          0989  1     EDT$$T_HDEF_NAM : BLOCK [14, BYTE] INITIAL (BYTE (13, 'SYS$HELP:.HLB')),
;   134          0990  1     EDT$$T_HDEF_FILE : BLOCK [8, BYTE] INITIAL (BYTE (7, 'EDTHELP')),
;   135          0991  1     EDT$$T_HELP_NAM : BLOCK [NAM$C_MAXRSS, BYTE] INITIAL (BYTE ('EDTHELP')),
;   136          0992  1     EDT$$G_HELP_NAMLEN : INITIAL (7),
;   137          0993  1     EDT$$G_HELP_SET : INITIAL (0),
;   138          0994  1     EDT$$Z_LBR_INDEX,                           ! LBR Control index for HELP
;   139          0995  1     EDT$$T_CMD_NAM_DEF1 : BLOCK [7, BYTE] INITIAL (BYTE (6, 'EDTSYS')), ! Command file name
;   140          0996  1     EDT$$T_CMD_NAM_DEF2 : BLOCK [17, BYTE] INITIAL (BYTE (16, 'SYS$LIBRARY:.EDT')),
;   141          0997  1                                                 ! Command file default name
;   142          0998  1     EDT$$T_CMD_NAM_DEF3 : BLOCK [7, BYTE] INITIAL (BYTE (6, 'EDTINI')), ! Alternate command file name
;   143          0999  1     EDT$$T_CMD_NAM_DEF4 : BLOCK [5, BYTE] INITIAL (BYTE (4, '.EDT'));   ! Alternate command file default nam
```

```
;  144     1000  1
;  145     1001  1 OWN
;  146     1002  1     MESSAGE : VECTOR [12, BYTE] INITIAL (BYTE ('Bug check   '));
;  147     1003  1
;  148     1004  1 OWN
;  149     1005  1     DEL_TIME : VECTOR [2] INITIAL (-5000000, -1),
;  150     1006  1     WORKING_EFN,
;  151     1007  1     WORK_MESSAGE_RUNNING : VOLATILE INITIAL (0);
;  152     1008  1
;  153     1009  1 OWN
;  154     1010  1     MEM_USE : INITIAL (0),                          ! Currently allocated memory amount
;  155     1011  1     MEM_LIMIT : INITIAL (1000000000);               ! Limit on amount of memory to allocate
;  156     1012  1
;  157     1013  1 !
;  158     1014  1 ! EXTERNAL REFERENCES:
;  159     1015  1 !
;  160     1016  1
;  161     1017  1 EXTERNAL ROUTINE
;  162     1018  1     EDT$$TI_WRSTR,
;  163     1019  1     EDT$$OUT_FMTBUF,
;  164     1020  1     EDT$$SC_POSCSIF,
;  165     1021  1     EDT$$SC_ERATOEOL,
;  166     1022  1     EDT$$TI_WRLN : NOVALUE,
;  167     1023  1     EDT$$FMT_STR : NOVALUE,
;  168     1024  1     LIB$GET_VM,
;  169     1025  1     LIB$FREE_VM,
;  170     1026  1     SYS$EXIT,
;  171     1027  1     LIB$DATE_TIME,
;  172     1028  1     LIB$GET_EF,
;  173     1029  1     LIB$FREE_EF;
;  174     1030  1
;  175     1031  1 !+
;  176     1032  1 ! Define the RABs to be used by EDT
;  177     1033  1 !-
;  178     1034  1
;  179     1035  1 GLOBAL
;  180     1036  1     EDT$$Z_SYS_PRIRAB : $RAB_DECL,
;  181     1037  1     EDT$$Z_SYS_JOURAB : $RAB_DECL,
;  182     1038  1     EDT$$Z_SYS_CMDRAB : $RAB_DECL,
;  183     1039  1     EDT$$Z_SYS_ALTRAB : $RAB_DECL;
;  184     1040  1
;  185     1041  1 EXTERNAL
;  186     1042  1     EDT$$A_FMT_WRRUT,                               ! Output format routine
;  187     1043  1     EDT$$G_MESSAGE_LINE,                            ! Command/message line
;  188     1044  1     EDT$$G_SECOND : VOLATILE,                       ! Set to 1 once a second for WORKING message
;  189     1045  1     EDT$$G_WORKCOUNT;                               ! Counter to support WORKING message
;  190     1046  1
```

```
;   192          1047  1 %SBTTL 'EDT$$INTER_ERR  - internal error'
;   193          1048  1
;   194          1049  1 GLOBAL ROUTINE EDT$$INTER_ERR                    ! Internal error
;   195          1050  1     : NOVALUE =
;   196          1051  1
;   197          1052  1 !++
;   198          1053  1 ! FUNCTIONAL DESCRIPTION:
;   199          1054  1 !
;   200          1055  1 !       If an internal error is detected in EDT, come here to
;   201          1056  1 !       print a cryptic message and bail out.
;   202          1057  1 !
;   203          1058  1 ! FORMAL PARAMETERS:
;   204          1059  1 !
;   205          1060  1 !       NONE
;   206          1061  1 !
;   207          1062  1 ! IMPLICIT INPUTS:
;   208          1063  1 !
;   209          1064  1 !       NONE
;   210          1065  1 !
;   211          1066  1 ! IMPLICIT OUTPUTS:
;   212          1067  1 !
;   213          1068  1 !       NONE
;   214          1069  1 !
;   215          1070  1 ! ROUTINE VALUE:
;   216          1071  1 !
;   217          1072  1 !       NONE
;   218          1073  1 !
;   219          1074  1 ! SIDE EFFECTS:
;   220          1075  1 !
;   221          1076  1 !       Never returns to its caller.
;   222          1077  1 !
;   223          1078  1 !--
;   224          1079  1
;   225          1080  1     BEGIN
;   226          1081  1     MESSAGES ((INTERERR));
;   227          1082  1     SIGNAL_STOP (EDT$_INTERERR);
;   228          1083  1     END;                                    ! of routine EDT$$INTER_ERR


                                                        .TITLE  EDT$SYSVAX EDT$SYSVAX - VAX/VMS system specific
;                                                                               storage
                                                        .IDENT  \V04-000\

                                                        .PSECT  _EDT$DATA,NOEXE,  PIC,2

                                                 0D  00000 EDT$$T_HDEF_NAM::
                                                           .BYTE   13
        42  4C  48  2E  3A  50  4C  45  48  24  53  59  53  00001           .ASCII  \SYS$HELP:.HLB\
                                                 0000E           .BLKB   2
                                                 07  00010 EDT$$T_HDEF_FILE::
                                                           .BYTE   7
                            50  4C  45  48  54  44  45  00011           .ASCII  \EDTHELP\
                            50  4C  45  48  54  44  45  00018 EDT$$T_HELP_NAM::
                                                           .ASCII  \EDTHELP\
                                                 0001F           .BLKB   248
                                                 00117           .BLKB   1
                                          00000007  00118 EDT$$G_HELP_NAMLEN::
```

```
                                                              .LONG   7                              ;
                                    00000000  0011C EDT$$G_HELP_SET::
                                                              .LONG   0                              ;
                                              00120 EDT$$Z_LBR_INDEX::
                                                              .BLKB   4
                                          06  00124 EDT$$T_CMD_NAM_DEF1::
                                                              .BYTE   6                              ;
                         53 59 53 54 44 45    00125           .ASCII  \EDTSYS\                       ;
                                              0012B           .BLKB   1
                                          10  0012C EDT$$T_CMD_NAM_DEF2::
                                                              .BYTE   16                             ;
44 45 2E 3A 59 52 41 52 42 49 4C 24 53 59 53  0012D           .ASCII  \SYS$LIBRARY:.EDT\             ;
                                          54  0013C                                                  ;
                                              0013D           .BLKB   3
                                          06  00140 EDT$$T_CMD_NAM_DEF3::
                                                              .BYTE   6                              ;
                         49 4E 49 54 44 45    00141           .ASCII  \EDTINI\                       ;
                                              00147           .BLKB   1
                                          04  00148 EDT$$T_CMD_NAM_DEF4::
                                                              .BYTE   4                              ;
                                 54 44 45 2E  00149           .ASCII  \.EDT\                         ;
                                              0014D           .BLKB   3
      20 20 20 6B 63 65 68 63 20 67 75 42     00150 MESSAGE:  .ASCII  \Bug check   \               ;
                         FFFFFFFF  FFB3B4C0   0015C DEL_TIME:
                                                              .LONG   -5000000, -1                   ;
                                              00164 WORKING_EFN:
                                                              .BLKB   4
                                    00000000  00168 WORK_MESSAGE_RUNNING:
                                                              .LONG   0                              ;
                                    00000000  0016C MEM_USE:  .LONG   0                              ;
                                    3B9ACA00  00170 MEM_LIMIT:
                                                              .LONG   1000000000                     ;
                                              00174 EDT$$Z_SYS_PRIRAB::
                                                              .BLKB   68
                                              001B8 EDT$$Z_SYS_JOURAB::
                                                              .BLKB   68
                                              001FC EDT$$Z_SYS_CMDRAB::
                                                              .BLKB   68
                                              00240 EDT$$Z_SYS_ALTRAB::
                                                              .BLKB   68

                                                              .EXTRN  EDT$$TI_WRSTR, EDT$$OUT_FMTBUF
                                                              .EXTRN  EDT$$SC_POSCSIF
                                                              .EXTRN  EDT$$SC_ERATOEOL
                                                              .EXTRN  EDT$$TI_WRLN, EDT$$FMT_STR
                                                              .EXTRN  LIB$GET_VM, LIB$FREE_VM
                                                              .EXTRN  SYS$EXIT, LIB$DATE_TIME
                                                              .EXTRN  LIB$GET_EF, LIB$FREE_EF
                                                              .EXTRN  EDT$$A_FMT_WRRUT
                                                              .EXTRN  EDT$$G_MESSAGE_LINE
                                                              .EXTRN  EDT$$G_SECOND, EDT$$G_WORKCOUNT
                                                              .EXTRN  EDT$_INTERERR

                                                              .PSECT  _EDT$CODE,NOWRT, SHR, PIC,2

                                        0000  00000           .ENTRY  EDT$$INTER_ERR, Save nothing   ; 1049
                          00000000G  8F  DD   00002           PUSHL   #EDT$_INTERERR                 ; 1082
```

```
                        00000000G  00          01  FB 00008          CALLS   #1, LIB$STOP                          ;
                                                   04 0000F          RET                                          ; 1083

; Routine Size:  16 bytes,    Routine Base:  _EDT$CODE + 0000

;  229          1084  1
```

```
;  231          1085  1 %SBTTL 'EDT$$SYS_EXI  - exit back to the operating system'
;  232          1086  1
;  233          1087  1 GLOBAL ROUTINE EDT$$SYS_EXI (                    ; Exit back to the operating system
;  234          1088  1     STATUS                                       ! Exit status code
;  235          1089  1     ) : NOVALUE =
;  236          1090  1
;  237          1091  1 !++
;  238          1092  1 ! FUNCTIONAL DESCRIPTION:
;  239          1093  1 !
;  240          1094  1 !       Final clean-up
;  241          1095  1 !
;  242          1096  1 ! FORMAL PARAMETERS:
;  243          1097  1 !
;  244          1098  1 !       STATUS          Exit status code.  1 = normal.
;  245          1099  1 !
;  246          1100  1 ! IMPLICIT INPUTS:
;  247          1101  1 !
;  248          1102  1 !       NONE
;  249          1103  1 !
;  250          1104  1 ! IMPLICIT OUTPUTS:
;  251          1105  1 !
;  252          1106  1 !       NONE
;  253          1107  1 !
;  254          1108  1 ! ROUTINE VALUE:
;  255          1109  1 !
;  256          1110  1 !       NONE
;  257          1111  1 !
;  258          1112  1 ! SIDE EFFECTS:
;  259          1113  1 !
;  260          1114  1 !       Deallocates all heap memory
;  261          1115  1 !
;  262          1116  1 !--
;  263          1117  1
;  264          1118  2     BEGIN
;  265          11.   2
;  266          1120  2     EXTERNAL ROUTINE
;  267          1121  2         EDT$$TI_DEAS;
;  268          1122  2
;  269          1123  2     MESSAGES ((EDITORABO));
;  270          1124  2     EDT$$DEA_ALLHEAP ();                         ! Deallocate all heap storage
;  271          1125  2     EDT$$TI_DEAS ();                             ! Deassign the terminal channel
;  272          1126  2
;  273        L 1127  2 %IF EDT$$TR_ACT
;  274        U 1128  2 %THEN
;  275        U 1129  2     BEGIN
;  276        U 1130  2
;  277        U 1131  2     LOCAL
;  278        U 1132  2         TRACE_STATUS;
;  279        U 1133  2
;  280        U 1134  2     EXTERNAL ROUTINE
;  281        U 1135  2         EDT$$TR_CLS : ADDRESSING_MODE (GENERAL);
;  282        U 1136  2
;  283        U 1137  2     EXTERNAL
;  284        U 1138  2         EDT$$L_TR_INFLG;
;  285        U 1139  2
;  286        U 1140  2     $$TRACE (EDT$$TR_EXI, EDT$$TR_SEXI, 0, 0);
;  287        U 1141  2     TRACE_STATUS = EDT$$TR_CLS (EDT$$L_TR_INFLG);
```

```
;  288          U 1142  2
;  289          U 1143  2      IF ( NOT .TRACE_STATUS) THEN SIGNAL_STOP (.TRACE_STATUS);
;  290          U 1144  2
;  291          U 1145  2      END;
;  292            1146  2 %FI
;  293            1147  2
;  294            1148  2      IF ( NOT .STATUS) THEN SIGNAL_STOP (EDT$_EDITORABO);
;  295            1149  2
;  296            1150  1      END;                                    ! of routine EDT$$SYS_EXI


                                                    .EXTRN  EDT$$TI_DEAS, EDT$_EDITORABO

                                          0000 00000        .ENTRY  EDT$$SYS_EXI, Save nothing                      ; 1087
                      0000V  CF               00  FB 00002        CALLS   #0, EDT$$DEA_ALLHEAP                    ; 1124
                00000000G  00                 00  FB 00007        CALLS   #0, EDT$$TI_DEAS                        ; 1125
                           0D         04      AC  E8 0000E        BLBS    STATUS, 1$                              ; 1148
                                 00000000G    8F  DD 00012        PUSHL   #EDT$_EDITORABO                         ;
                00000000G  00                 01  FB 00018        CALLS   #1, LIB$STOP                            ;
                                              04 0001F 1$:        RET                                             ; 1150

; Routine Size:  32 bytes,    Routine Base:  _EDT$CODE + 0010

;  297          1151  1
```

```
;  299          1152  1 %SBTTL 'EDT$$GET_DATE  - return the date as an ASCII string'
;  300          1153  1
;  301          1154  1 GLOBAL ROUTINE EDT$$GET_DATE (                    ! Return the date as an ASCII string
;  302          1155  1     LEN,                                           ! Length of the buffer to return the date in
;  303          1156  1     BUFFER                                         ! Address of the buffer
;  304          1157  1     ) : NOVALUE =
;  305          1158  1
;  306          1159  1 !++
;  307          1160  1 ! FUNCTIONAL DESCRIPTION:
;  308          1161  1 !
;  309          1162  1 !       Return the date and time as an ASCII string.
;  310          1163  1 !
;  311          1164  1 ! FORMAL PARAMETERS:
;  312          1165  1 !
;  313          1166  1 !  LEN                  Length of the buffer in which the date is returned
;  314          1167  1 !
;  315          1168  1 !  BUFFER               Address of that buffer.
;  316          1169  1 !
;  317          1170  1 ! IMPLICIT INPUTS:
;  318          1171  1 !
;  319          1172  1 !       NONE
;  320          1173  1 !
;  321          1174  1 ! IMPLICIT OUTPUTS:
;  322          1175  1 !
;  323          1176  1 !       NONE
;  324          1177  1 !
;  325          1178  1 ! ROUTINE VALUE:
;  326          1179  1 !
;  327          1180  1 !       NONE
;  328          1181  1 !
;  329          1182  1 ! SIDE EFFECTS:
;  330          1183  1 !
;  331          1184  1 !       NONE                                                                                              ;
;  332          1185  1 !
;  333          1186  1 !--
;  334          1187  1
;  335          1188  2     BEGIN                                                                                                ;
;  336          1189  2
;  337          1190  2     LOCAL
;  338          1191  2         DATE_DESC : BLOCK [8, BYTE],
;  339          1192  2         DATE_TIME_STATUS;
;  340          1193  2
;  341          1194  2     MAP
;  342          1195  2         BUFFER : REF VECTOR [, BYTE];
;  343          1196  2
;  344          1197  2 !+
;  345          1198  2 ! Set up the descriptor for the LIB$ routine
;  346          1199  2 !-
;  347          1200  2     DATE_DESC [DSC$W_LENGTH] = 24;
;  348          1201  2     DATE_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
;  349          1202  2     DATE_DESC [DSC$B_CLASS] = DSC$K_CLASS_S;
;  350          1203  2     DATE_DESC [DSC$A_POINTER] = BUFFER [1];
;  351          1204  2 !+
;  352          1205  2 ! Now call the routine to get the date and time as string
;  353          1206  2 !-
;  354          1207  2     DATE_TIME_STATUS = LIB$DATE_TIME (DATE_DESC);
;  355          1208  2 !+
```

```
;  356          1209  2 ! Make sure we got a good status from the library routine else stop
;  357          1210  2 !-
;  358          1211  2
;  359          1212  2     IF ( NOT .DATE_TIME_STATUS) THEN SIGNAL_STOP (.DATE_TIME_STATUS);
;  360          1213  2
;  361          1214  2     BUFFER [0] = %C' ';                             ! begin with a space
;  362          1215  2     BUFFER [21] = %C' ';                            ! and end with a space
;  363          1216  2
;  364          1217  3     IF (.BUFFER [1] EQL %C' ')
;  365          1218  2     THEN
;  366          1219  3         BEGIN
;  367          1220  3         CH$MOVE (20, BUFFER [2], BUFFER [1]);       ! shift left one space
;  368          1221  3         .LEN = 21;
;  369          1222  3         END
;  370          1223  2     ELSE
;  371          1224  2         .LEN = 22;
;  372          1225  2
;  373          1226  1     END;                                            ! of routine EDT$$GET_DATE



                                  003C 00000          .ENTRY  EDT$$GET_DATE, Save R2,R3,R4,R5                 ; 1154
                              5E  04  C2 00002         SUBL2   #4, SP                                          ;
                        010E0018  8F  DD 00005         PUSHL   #17694744                                       ; 1200
                              52  08  AC D0 0000B      MOVL    BUFFER, R2                                      ; 1203
                        04    AE  01  A2 9E 0000F      MOVAB   1(R2), DATE_DESC+4                              ;
                              5E  DD 00014             PUSHL   SP                                              ; 1207
                00000000G     00    01 FB 00016        CALLS   #1, LIB$DATE_TIME                               ;
                              09    50 E8 0001D        BLBS    DATE_TIME_STATUS, 1$                            ; 1212
                              50    DD 00020           PUSHL   DATE_TIME_STATUS                                ;
                00000000G     00    01 FB 00022        CALLS   #1, LIB$STOP                                    ;
                              62    20 90 00029 1$:    MOVB    #32, (R2)                                       ; 1214
                        15    A2    20 90 0002C        MOVB    #32, 21(R2)                                     ; 1215
                              20  01  A2 91 00030        CMPB    1(R2), #32                                      ; 1217
                                      0B 12 00034        BNEQ    2$                                              ;
                  01    A2    02    A2 14 28 00036     MOVC3   #20, 2(R2), 1(R2)                               ; 1220
                              04    BC 15 D0 0003C     MOVL    #21, @LEN                                       ; 1221
                                      04 00040         RET                                                     ; 1217
                              04    BC 16 D0 00041 2$: MOVL    #22, @LEN                                       ; 1224
                                      04 00045         RET                                                     ; 1226

; Routine Size:  70 bytes,    Routine Base:  _EDT$CODE + 0030

;  374          1227  1
```

```
;  376          1228  1 %SBTTL 'EDT$$ALO_HEAP  - Allocate memory'
;  377          1229  1
;  378          1230  1 GLOBAL ROUTINE EDT$$ALO_HEAP (                    ! Allocate memory
;  379          1231  1     SIZE,                                          ! Number of bytes to allocate
;  380          1232  1     ADDRESS                                        ! Address of allocated space
;  381          1233  1     ) =
;  382          1234  1
;  383          1235  1 !++
;  384          1236  1 ! FUNCTIONAL DESCRIPTION:
;  385          1237  1 !
;  386          1238  1 !       Allocate memory.
;  387          1239  1 !
;  388          1240  1 ! FORMAL PARAMETERS:
;  389          1241  1 !
;  390          1242  1 !  SIZE                 The number of bytes to allocate
;  391          1243  1 !
;  392          1244  1 !  ADDRESS              Place to store address of allocated space
;  393          1245  1 !
;  394          1246  1 ! IMPLICIT INPUTS:
;  395          1247  1 !
;  396          1248  1 !       NONE
;  397          1249  1 !
;  398          1250  1 ! IMPLICIT OUTPUTS:
;  399          1251  1 !
;  400          1252  1 !       NONE
;  401          1253  1 !
;  402          1254  1 ! ROUTINE VALUE:
;  403          1255  1 !
;  404          1256  1 !       1 = memory successfully allocated, 0 = out of memory.
;  405          1257  1 !
;  406          1258  1 ! SIDE EFFECTS:
;  407          1259  1 !
;  408          1260  1 !       NONE
;  409          1261  1 !
;  410          1262  1 !--
;  411          1263  1
;  412          1264  2     BEGIN
;  413          1265  2
;  414          1266  2     LOCAL
;  415          1267  2         GET_VM_STATUS;
;  416          1268  2
;  417          1269  2     IF ((.MEM_USE + ..SIZE) GTR .MEM_LIMIT) THEN RETURN (0);
;  418          1270  2
;  419          1271  2     GET_VM_STATUS = LIB$GET_VM (.SIZE, .ADDRESS);
;  420          1272  2
;  421          1273  2     IF ( NOT .GET_VM_STATUS) THEN RETURN (0);
;  422          1274  2
;  423          1275  2     MEM_USE = .MEM_USE + ..SIZE;
;  424          1276  2     RETURN (1);
;  425          1277  1     END;                                           ! of routine EDT$$ALO_HEAP


                                0004 00000          .ENTRY  EDT$$ALO_HEAP, Save R2                          ; 1230
                    52 00000000'  EF   9E 00002     MOVAB   MEM_USE, R2                                     ;
```

```
                    50              62      04      BC  C1 00009           ADDL3   @SIZE, MEM_USE, R0                      ; 1269
                                  04  A2            50  D1 0000E           CMPL    R0, MEM_LIMIT                           ;
                                                    16  14 00012           BGTR    1$                                      ;
                                      7E      04    AC  7D 00014           MOVQ    SIZE, -(SP)                             ; 1271
                        00000000G     00            02  FB 00018           CALLS   #2, LIB$GET_VM                          ;
                                      08            50  E9 0001F           BLBC    GET_VM_STATUS, 1$                       ; 1273
                                      62      04    BC  C0 00022           ADDL2   @SIZE, MEM_USE                          ; 1275
                                      50            01  D0 00026           MOVL    #1, R0                                  ; 1276
                                                    04  00029           RET                                             ;
                                                    50  D4 0002A 1$:      CLRL    R0                                      ; 1277
                                                        0002C           RET                                             ;

; Routine Size:  45 bytes,    Routine Base:  _EDT$CODE + 0076

;  426          1278  1
```

```
;  428          1279  1 %SBTTL 'EDT$$DEA_HEAP  - Deallocate memory'
;  429          1280  1
;  430          1281  1 GLOBAL ROUTINE EDT$$DEA_HEAP (                    ! Deallocate memory
;  431          1282  1     SIZE,                                          ! Number of bytes to deallocate
;  432          1283  1     ADDRESS                                        ! Address of deallocated space
;  433          1284  1     ) : NOVALUE =
;  434          1285  1
;  435          1286  1 !++
;  436          1287  1 ! FUNCTIONAL DESCRIPTION:
;  437          1288  1 !
;  438          1289  1 !       Deallocate memory.
;  439          1290  1 !
;  440          1291  1 ! FORMAL PARAMETERS:
;  441          1292  1 !
;  442          1293  1 !  SIZE                 The number of bytes to deallocate
;  443          1294  1 !
;  444          1295  1 !  ADDRESS              Place to store address of deallocated space
;  445          1296  1 !
;  446          1297  1 ! IMPLICIT INPUTS:
;  447          1298  1 !
;  448          1299  1 !       NONE
;  449          1300  1 !
;  450          1301  1 ! IMPLICIT OUTPUTS:
;  451          1302  1 !
;  452          1303  1 !       NONE
;  453          1304  1 !
;  454          1305  1 ! ROUTINE VALUE:
;  455          1306  1 !
;  456          1307  1 !       NONE
;  457          1308  1 !
;  458          1309  1 ! SIDE EFFECTS:
;  459          1310  1 !
;  460          1311  1 !       Signals on error.
;  461          1312  1 !
;  462          1313  1 !--
;  463          1314  1
;  464          1315  2     BEGIN
;  465          1316  2
;  466          1317  2     LOCAL
;  467          1318  2         FREE_VM_STATUS;
;  468          1319  2
;  469          1320  2     FREE_VM_STATUS = LIB$FREE_VM (.SIZE, .ADDRESS);
;  470          1321  2
;  471          1322  2     IF ( NOT .FREE_VM_STATUS) THEN SIGNAL_STOP (.FREE_VM_STATUS);
;  472          1323  2
;  473          1324  2     MEM_USE = .MEM_USE - ..SIZE;
;  474          1325  2     ASSERT (.MEM_USE GEQ 0);
;  475          1326  1     END;                                           ! of routine EDT$$DEA_HEAP


                                        0000 00000          .ENTRY  EDT$$DEA_HEAP, Save nothing                     ; 1281
                            7E      04  AC   7D 00002       MOVQ    SIZE, -(SP)                                     ; 1320
                00000000G   00          02   FB 00006       CALLS   #2, LIB$FREE_VM                                 ;
                            09          50   E8 0000D       BLBS    FREE_VM_STATUS, 1$                              ; 1322
```

```
                                                50  DD 00010          PUSHL   FREE_VM_STATUS                                    ;
                                                01  FB 00012          CALLS   #1, LIB$STOP                                      ;
                        00000000G  00           BC  C2 00019 1$:       SUBL2   @SIZE, MEM_USE                                    ; 1324
                        00000000'  EF     04    07  18 00021          BGEQ    2$                                                ; 1325
                        00000000G  00           00  FB 00023          CALLS   #0, EDT$$INTER_ERR                                ;
                                                    04 0002A 2$:       RET                                                       ; 1326

; Routine Size:  43 bytes,    Routine Base:  _EDT$CODE + 00A3

;  476          1327  1
```

```
;  478          1328  1 %SBTTL 'EDT$$DEA_ALLHEAP  - Deallocate all memory'
;  479          1329  1
;  480          1330  1 GLOBAL ROUTINE EDT$$DEA_ALLHEAP                  ! Deallocate all memory
;  481          1331  1     : NOVALUE =
;  482          1332  1
;  483          1333  1 !++
;  484          1334  1 ! FUNCTIONAL DESCRIPTION:
;  485          1335  1 !
;  486          1336  1 !       Deallocate all memory allocated by calls to LIB$GET_VM .
;  487          1337  1 !
;  488          1338  1 ! FORMAL PARAMETERS:
;  489          1339  1 !
;  490          1340  1 !       NONE
;  491          1341  1 !
;  492          1342  1 ! IMPLICIT INPUTS:
;  493          1343  1 !
;  494          1344  1 !       EDT$$A_FST_AVLN
;  495          1345  1 !       EDT$$A_FST_SCRPTR
;  496          1346  1 !       EDT$$A_BUF_LST
;  497          1347  1 !       EDT$$A_TRN_TBL
;  498          1348  1 !       EDT$$A_US_ENT
;  499          1349  1 !       EDT$$A_US_TXT
;  500          1350  1 !
;  501          1351  1 ! IMPLICIT OUTPUTS:
;  502          1352  1 !
;  503          1353  1 !       EDT$$A_FST_AVLN
;  504          1354  1 !       EDT$$A_FST_SCRPTR
;  505          1355  1 !       EDT$$A_BUF_LST
;  506          1356  1 !
;  507          1357  1 ! ROUTINE VALUE:
;  508          1358  1 !
;  509          1359  1 !       NONE
;  510          1360  1 !
;  511          1361  1 ! SIDE EFFECTS:
;  512          1362  1 !
;  513          1363  1 !       Signals on error.
;  514          1364  1 !
;  515          1365  1 !--
;  516          1366  1
;  517          1367  2     BEGIN
;  518          1368  2
;  519          1369  2     EXTERNAL ROUTINE
;  520          1370  2         STR$FREE1_DX,
;  521          1371  2         EDT$$CAN_RDEF;                          ! Cancel a key definition
;  522          1372  2
;  523          1373  2     EXTERNAL
;  524          1374  2         EDT$$A_FST_AVLN,
;  525          1375  2         EDT$$A_FST_SCRPTR,
;  526          1376  2         EDT$$A_BUF_LST,
;  527          1377  2         EDT$$A_TRN_TBL : VECTOR,
;  528          1378  2         EDT$$A_US_ENT : VECTOR,
;  529          1379  2         EDT$$A_US_TXT : VECTOR;
;  530          1380  2
;  531          1381  2     LOCAL
;  532          1382  2         NEW_PTR : REF SCREEN_LINE,
;  533          1383  2         NEW_BUF : REF TBCB_BLOCK,
;  534          1384  2         LEN;
```

```
;  535          1385  2          GET_VM_STATUS;
;  536          1386  2
;  537          1387  2      !+
;  538          1388  2      ! Deallocate all buffer headers
;  539          1389  2      !-
;  540          1390  2          NEW_BUF = .EDT$$A_BUF_LST;
;  541          1391  2
;  542          1392  2          WHILE (.NEW_BUF NEQA 0) DO
;  543          1393  3              BEGIN
;  544          1394  3              LEN = .NEW_BUF [TBCB_NAME_LEN] + TBCB_SIZE;
;  545          1395  3              EDT$$A_BUF_LST = .NEW_BUF [TBCB_NEXT_BUF];
;  546          1396  3              EDT$$DEA_HEAP (LEN, NEW_BUF);
;  547          1397  3              NEW_BUF = .EDT$$A_BUF_LST;
;  548          1398  2              END;
;  549          1399  2
;  550          1400  2      !+
;  551          1401  2      ! Deallocate memory used for screen data structure.
;  552          1402  2      !-
;  553          1403  2          NEW_PTR = .EDT$$A_FST_SCRPTR;
;  554          1404  2
;  555          1405  2          WHILE (.NEW_PTR NEQA 0) DO
;  556          1406  3              BEGIN
;  557          1407  3              EDT$$A_FST_SCRPTR = .NEW_PTR [SCR_NXT_LINE];
;  558          1408  3              EDT$$DEA_HEAP (%REF (SCR_SIZE), NEW_PTR);
;  559          1409  3              NEW_PTR = .EDT$$A_FST_SCRPTR;
;  560          1410  2              END;
;  561          1411  2
;  562          1412  2          NEW_PTR = .EDT$$A_FST_AVLN;
;  563          1413  2
;  564          1414  2          WHILE (.NEW_PTR NEQA 0) DO
;  565          1415  3              BEGIN
;  566          1416  3              EDT$$A_FST_AVLN = .NEW_PTR [SCR_NXT_LINE];
;  567          1417  3              EDT$$DEA_HEAP (%REF (SCR_SIZE), NEW_PTR);
;  568          1418  3              NEW_PTR = .EDT$$A_FST_AVLN;
;  569          1419  2              END;
;  570          1420  2
;  571          1421  2      !+
;  572          1422  2      ! Deallocate virtual storage allocated for entities
;  573          1423  2      !-
;  574          1424  2
;  575          1425  2          INCR ENT_NUM FROM 0 TO 3 DO
;  576          1426  3              BEGIN
;  577          1427  3              LEN = CH$RCHAR (.EDT$$A_US_ENT [.ENT_NUM]);
;  578          1428  3              EDT$$DEA_HEAP (%REF (.LEN + 1), EDT$$A_US_ENT [.ENT_NUM]);
;  579          1429  2              END;
;  580          1430  2
;  581          1431  2          INCR TEXT_NUM FROM 0 TO 1 DO
;  582          1432  3              BEGIN
;  583          1433  3              LEN = CH$RCHAR (.EDT$$A_US_TXT [.TEXT_NUM]);
;  584          1434  3              EDT$$DEA_HEAP (%REF (.LEN + 1), EDT$$A_US_TXT [.TEXT_NUM]);
;  585          1435  2              END;
;  586          1436  2
;  587          1437  2      !+
;  588          1438  2      ! Deallocate virtual storage reserved for the key definitions
;  589          1439  2      !-
;  590          1440  2
;  591          1441  2          INCR TBL_PTR FROM 0 TO K_KPAD_HASHSIZ - 1 DO
```

```
;  592          1442  3          BEGIN
;  593          1443  3
;  594          1444  3          WHILE (.EDT$$A_TRN_TBL [.TBL_PTR] NEQA 0) DO
;  595          1445  4              BEGIN
;  596          1446  4
;  597          1447  4              LOCAL
;  598          1448  4                  KEY_PTR : REF BLOCK [, BYTE] FIELD (KEY_DEF_FIELD);
;  599          1449  4
;  600          1450  4              KEY_PTR = .EDT$$A_TRN_TBL [.TBL_PTR];
;  601          1451  4              EDT$$CAN_KDEF (.KEY_PTR [KEY_DEF_KEY]);
;  602          1452  3              END;
;  603          1453  3
;  604          1454  2          END;
;  605          1455  2
;  606          1456  1      END;                                    ! of routine EDT$$DEA_ALLHEAP


                                                                     .EXTRN  STR$FREE1_DX, EDT$$CAN_KDEF
                                                                     .EXTRN  EDT$$A_FST_AVLN
                                                                     .EXTRN  EDT$$A_FST_SCRPTR
                                                                     .EXTRN  EDT$$A_BUF_LST, EDT$$A_TRN_TBL
                                                                     .EXTRN  EDT$$A_US_ENT, EDT$$A_OS_TRT

                                                 007C 00000          .ENTRY  EDT$$DEA_ALLHEAP, Save R2,R3,R4,R5,R6        ; 1330
                                  56 00000000G   00   9E 00002       MOVAB   EDT$$A_BUF_LST, R6                           ;
                                  55 00000000G   00   9E 00009       MOVAB   EDT$$A_FST_AVLN, R5                          ;
                                  54 00000000G   00   9E 00010       MOVAB   EDT$$A_FST_SCRPTR, R4                        ;
                                  53        BB   AF   9E 00017       MOVAB   EDT$$DEA_HEAP, R3                            ;
                                  5E             10   C2 0001B       SUBL2   #16, SP                                      ;
                             04   AE             66   D0 0001E 1$:    MOVL    EDT$$A_BUF_LST, NEW_BUF                      ; 1390
                                  50        04   AE   D0 00022       MOVL    NEW_BUF, R0                                  ; 1392
                                                 18   13 00026       BEQL    2$                                           ;
                             08   AE        2C   A0   9A 00028       MOVZBL  44(R0), LEN                                  ; 1394
                             08   AE             2D   C0 0002D       ADDL2   #45, LEN                                     ;
                                  66        26   A0   D0 00031       MOVL    38(R0), EDT$$A_BUF_LST                       ; 1395
                                            04   AE   9F 00035       PUSHAB  NEW_BUF                                      ; 1396
                                            0C   AE   9F 00038       PUSHAB  LEN                                          ;
                                  63             02   FB 0003B       CALLS   #2, EDT$$DEA_HEAP                            ;
                                                 DE   11 0003E       BRB     1$                                           ; 1397
                             0C   AE             64   D0 00040 2$:    MOVL    EDT$$A_FST_SCRPTR, NEW_PTR                   ; 1403
                                  50        0C   AE   D0 00044       MOVL    NEW_PTR, R0                                  ; 1405
                                                 13   13 00048       BEQL    3$                                           ;
                                  64        04   A0   D0 0004A       MOVL    4(R0), EDT$$A_FST_SCRPTR                     ; 1407
                                            0C   AE   9F 0004E       PUSHAB  NEW_PTR                                      ; 1408
                             04   AE             0E   D0 00051       MOVL    #14, 4(SP)                                   ;
                                            04   AE   9F 00055       PUSHAB  4(SP)                                        ;
                                  63             02   FB 00058       CALLS   #2, EDT$$DEA_HEAP                            ;
                                                 E3   11 0005B       BRB     2$                                           ; 1409
                             0C   AE             65   D0 0005D 3$:    MOVL    EDT$$A_FST_AVLN, NEW_PTR                     ; 1412
                                  50        0C   AE   D0 00061       MOVL    NEW_PTR, R0                                  ; 1414
                                                 13   13 00065       BEQL    4$                                           ;
                                  65        04   A0   D0 00067       MOVL    4(R0), EDT$$A_FST_AVLN                       ; 1416
                                            0C   AE   9F 0006B       PUSHAB  NEW_PTR                                      ; 1417
                             04   AE             0E   D0 0006E       MOVL    #14, 4(SP)                                   ;
                                            04   AE   9F 00072       PUSHAB  4(SP)                                        ;
                                  63             02   FB 00075       CALLS   #2, EDT$$DEA_HEAP                            ;
```

```
                                                E3  11 00078          BRB     3$                                      ; 1418
                                                52  D4 0007A 4$:       CLRL    ENT_NUM                                 ; 1425
                                50 00000000G0042  DE 00080 5$:       MOVAL   EDT$$A_US_ENT[ENT_NUM], R0               ; 1427
                             08 AE         00     B0 00084           MOVZBL  @0(R0), LEN
                                                50  DD 00089           PUSHL   R0                                      ; 1428
                          04 AE         0C AE     01  C1 0008B           ADDL3   #1, LEN, 4(SP)
                                             04 AE  9F 00091           PUSHAB  4(SP)
                                             63     02  FB 00094           CALLS   #2, EDT$$DEA_HEAP
                                E1           52     03  F3 00097           AOBLEQ  #3, ENT_NUM, 5$                 ; 1425
                                                52  D4 0009B           CLRL    TEXT_NUM                                ; 1431
                                50 00000000G0042  DE 0009D 6$:       MOVAL   EDT$$A_US_TXT[TEXT_NUM], R0              ; 1433
                             08 AE         00     B0 000A5           MOVZBL  @0(R0), LEN
                                                50  DD 000AA           PUSHL   R0                                      ; 1434
                          04 AE         0C AE     01  C1 000AC           ADDL3   #1, LEN, 4(SP)
                                             04 AE  9F 000B2           PUSHAB  4(SP)
                                             63     02  FB 000B5           CALLS   #2, EDT$$DEA_HEAP
                                E1           52     01  F3 000B8           AOBLEQ  #1, TEXT_NUM, 6$                ; 1431
                                                52  D4 000BC           CLRL    TBL_PTR                                 ; 1441
                                50 00000000G0042  D0 000BE 7$:       MOVL    EDT$$A_TRN_TBL[TBL_PTR], R0              ; 1444
                                                0D  13 000C6           BEQL    8$
                                             7E     04  A0 3C 000C8           MOVZWL  4(KEY_PTR), -(SP)               ; 1451
                    00000000G                00     01  FB 000CC           CALLS   #1, EDT$$CAN_KDEF
                                                E9  11 000D3           BRB     7$                                      ; 1444
                                E1           52 000000C6  8F  F3 000D5 8$:       AOBLEQ  #198, TBL_PTR, 7$               ; 1441
                                                04 000DD           RET                                             ; 1456

; Routine Size:  222 bytes,    Routine Base:  _EDT$CODE + 00CE

;  607          1457  1
```

```
;  609          1458  1 %SBTTL 'WORKAST - take a timer AST for the WORKING message'
;  610          1459  1 ROUTINE WORKAST                                       ! Take a timer AST for the WORKING message
;  611          1460  1     : NOVALUE =
;  612          1461  1
;  613          1462  1 !++
;  614          1463  1 ! FUNCTIONAL DESCRIPTION:
;  615          1464  1 !
;  616          1465  1 !       Take a timer AST for the WORKING message.
;  617          1466  1 !
;  618          1467  1 ! FORMAL PARAMETERS:
;  619          1468  1 !
;  620          1469  1 !       NONE
;  621          1470  1 !
;  622          1471  1 ! IMPLICIT INPUTS:
;  623          1472  1 !
;  624          1473  1 !       WORK_MESSAGE_RUNNING
;  625          1474  1 !
;  626          1475  1 ! IMPLICIT OUTPUTS:
;  627          1476  1 !
;  628          1477  1 !       EDT$$G_SECOND
;  629          1478  1 !
;  630          1479  1 ! ROUTINE VALUE:
;  631          1480  1 !
;  632          1481  1 !       NONE
;  633          1482  1 !
;  634          1483  1 ! SIZE EFFECTS:
;  635          1484  1 !
;  636          1485  1 !       Arranges to print the WORKING message on the screen.
;  637          1486  1 !
;  638          1487  1 !--
;  639          1488  1
;  640          1489  2     BEGIN
;  641          1490  2
;  642          1491  2     IF .WORK_MESSAGE_RUNNING
;  643          1492  2     THEN
;  644          1493  3         BEGIN
;  645          1494  3         EDT$$G_SECOND = 1;
;  646          1495  3         $SETIMR (DAYTIM = DEL_TIME, ASTADR = WORKAST, REQIDT = EDT$$G_WORKCOUNT);
;  647          1496  2         END;
;  648          1497  2
;  649          1498  1     END;                                              ! of routine WORKAST


                                                                .EXTRN  SYS$SETIMR

                                        0000 00000 WORKAST:.WORD    Save nothing                                    ; 1489
                                 1F 00000000'   EF   E9 00002           BLBC    WORK_MESSAGE_RUNNING, 1$        ; 1491
                00000000G        00             01   D0 00009           MOVL    #1, EDT$$G_SECOND               ; 1494
                                    C0000000G   00   9F 00010           PUSHAB  EDT$$G_WORKCOUNT                ; 1495
                                          E7    AF   9F 00016           PUSHAB  WORKAST
                                    00000000'   EF   9F 00019           PUSHAB  DEL_TIME
                                                7E   D4 0001F           CLRL    -(SP)
                00000000G        00             04   FB 00021           CALLS   #4, SYS$SETIMR
                                                    04 00028 1$:        RET                                     ; 1498

; Routine Size:  41 bytes,    Routine Base:  _EDT$CODE + 01AC
```

```
;  651          1499  1 %SBTTL 'EDT$$START_WKINGMSG  - initiate the "working" timer'
;  652          1500  1
;  653          1501  1 GLOBAL ROUTINE EDT$$START_WKINGMSG                ! Initiate the "working" timer
;  654          1502  1     : NOVALUE =
;  655          1503  1
;  656          1504  1 !++
;  657          1505  1 ! FUNCTIONAL DESCRIPTION:
;  658          1506  1 !
;  659          1507  1 !       Start the timer which will cause the "working" message                                          ;
;  660          1508  1 !       to print occasionally until it is cancelled.
;  661          1509  1 !
;  662          1510  1 ! FORMAL PARAMETERS:                                                                                    ;
;  663          1511  1 !                                                                                                       ;
;  664          1512  1 !       NONE
;  665          1513  1 !
;  666          1514  1 ! IMPLICIT INPUTS:
;  667          1515  1 !
;  668          1516  1 !       DEL_TIME
;  669          1517  1 !       WORKAST
;  670          1518  1 !       WORK_MESSAGE_RUNNING
;  671          1519  1 !
;  672          1520  1 ! IMPLICIT OUTPUTS:
;  673          1521  1 !
;  674          1522  1 !       EDT$$G_WORKCOUNT
;  675          1523  1 !       WORKING_EFN
;  676          1524  1 !       WORK_MESSAGE_RUNNING
;  677          1525  1 !
;  678          1526  1 ! ROUTINE VALUE:
;  679          1527  1 !
;  680          1528  1 !       NONE
;  681          1529  1 !
;  682          1530  1 ! SIDE EFFECTS:
;  683          1531  1 !
;  684          1532  1 !       Allocates an event flag.
;  685          1533  1 !       Signals any errors.
;  686          1534  1 !
;  687          1535  1 !--
;  688          1536  1
;  689          1537  2     BEGIN
;  690          1538  2
;  691          1539  2     LOCAL
;  692          1540  2         GETEF_STATUS,
;  693          1541  2         SETIMR_STATUS;
;  694          1542  2
;  695          1543  2 !+
;  696          1544  2 ! If the "working" message is already running, don't start it again.
;  697          1545  2 !-
;  698          1546  2
;  699          1547  2     IF .WORK_MESSAGE_RUNNING THEN RETURN;
;  700          1548  2
;  701          1549  2     GETEF_STATUS = LIB$GET_EF (WORKING_EFN);
;  702          1550  2
;  703          1551  2     IF ( NOT .GETEF_STATUS) THEN SIGNAL_STOP (.GETEF_STATUS);
;  704          1552  2
;  705        P 1553  2     SETIMR_STATUS = $SETIMR (EFN = .WORKING_EFN, DAYTIM = DEL_TIME, ASTADR = WORKAST,
;  706          1554  2         REQIDT = EDT$$G_WORKCOUNT);
;  707          1555  2
```

```
;  708          1556  2     IF ( NOT .SETIMR_STATUS) THEN SIGNAL_STOP (.SETIMR_STATUS);
;  709          1557  2
;  710          1558  2     EDT$$G_WORKCOUNT = 0;
;  711          1559  2     WORK_MESSAGE_RUNNING = 1;
;  712          1560  1     END;                                    ! of routine EDT$$START_WKINGMSG


                                        001C 00000          .ENTRY  EDT$$START_WKINGMSG, Save R2,R3,R4          ; 1501
                            54 00000000G  00   9E 00002     MOVAB   EDT$$G_WORKCOUNT, R4                        ;
                            53 00000000G  00   9E 00009     MOVAB   LIB$STOP, R3                                ;
                            52 00000000'  EF   9E 00010     MOVAB   WORK_MESSAGE_RUNNING, R2                    ;
                            31            62   E8 00017     BLBS    WORK_MESSAGE_RUNNING, 3$                    ; 1547
                                      FC  A2   9F 0001A     PUSHAB  WORKING_EFN                                 ; 1549
                00000000G   00            01   FB 0001D     CALLS   #1, LIB$GET_EF                              ;
                            05            50   E8 00024     BLBS    GETEF_STATUS, 1$                            ; 1551
                                          50   DD 00027     PUSHL   GETEF_STATUS                                ;
                            63            01   FB 00029     CALLS   #1, LIB$STOP                                ;
                                          54   DD 0002C 1$:  PUSHL   R4                                         ; 1554
                                      A6  AF   9F 0002E     PUSHAB  WORKAST                                     ;
                                      F4  A2   9F 00031     PUSHAB  DEL_TIME                                    ;
                                      FC  A2   DD 00034     PUSHL   WORKING_EFN                                 ;
                00000000G   00            04   FB 00037     CALLS   #4, SYS$SETIMR                              ;
                            05            50   E8 0003E     BLBS    SETIMR_STATUS, 2$                           ; 1556
                                          50   DD 00041     PUSHL   SETIMR_STATUS                               ;
                            63            01   FB 00043     CALLS   #1, LIB$STOP                                ;
                                          64   D4 00046 2$:  CLRL    EDT$$G_WORKCOUNT                          ; 1558
                            62            01   D0 00048     MOVL    #1, WORK_MESSAGE_RUNNING                    ; 1559
                                               04 0004B 3$:  RET                                                 ; 1560

; Routine Size:  76 bytes,    Routine Base:  _EDT$CODE + 01D5

;  713          1561  1
```

```
;  715          1562  1 %SBTTL 'EDT$$STOP_WKINGMSG  - cancel the "working" timer'
;  716          1563  1
;  717          1564  1 GLOBAL ROUTINE EDT$$STOP_WKINGMSG                ! Cancel the "working" timer
;  718          1565  1     : NOVALUE =
;  719          1566  1
;  720          1567  1 !++
;  721          1568  1 ! FUNCTIONAL DESCRIPTION:
;  722          1569  1 !
;  723          1570  1 !       Cancel the "working" timer.  The "working" message will not print
;  724          1571  1 !       until it is initiated again.  Also, erase the working message.
;  725          1572  1 !
;  726          1573  1 ! FORMAL PARAMETERS:
;  727          1574  1 !
;  728          1575  1 !       NONE
;  729          1576  1 !
;  730          1577  1 ! IMPLICIT INPUTS:
;  731          1578  1 !
;  732          1579  1 !       WORKING_EFN
;  733          1580  1 !       EDT$$G_WORKCOUNT
;  734          1581  1 !       WORK_MESSAGE_RUNNING
;  735          1582  1 !       EDT$$G_MESSAGE_LINE
;  736          1583  1 !
;  737          1584  1 ! IMPLICIT OUTPUTS:
;  738          1585  1 !
;  739          1586  1 !       WORK_MESSAGE_RUNNING
;  740          1587  1 !
;  741          1588  1 ! ROUTINE VALUE:
;  742          1589  1 !
;  743          1590  1 !       NONE
;  744          1591  1 !
;  745          1592  1 ! SIDE EFFECTS:
;  746          1593  1 !
;  747          1594  1 !       Deallocates an event flag.
;  748          1595  1 !       Repositions the cursor to beginning of message line
;  749          1596  1 !
;  750          1597  1 !--
;  751          1598  1
;  752          1599  2     BEGIN
;  753          1600  2
;  754          1601  2     LOCAL
;  755          1602  2         FORMAT_ROUTINE,
;  756          1603  2         FREEEF_STATUS,
;  757          1604  2         CANTIM_STATUS;
;  758          1605  2
;  759          1606  2 !+
;  760          1607  2 ! If the "working" message is not running, do nothing.
;  761          1608  2 !-
;  762          1609  2
;  763          1610  2     IF ( NOT .WORK_MESSAGE_RUNNING) THEN RETURN;
;  764          1611  2
;  765          1612  2     WORK_MESSAGE_RUNNING = 0;
;  766          1613  2     CANTIM_STATUS = $CANTIM (REQIDT = EDT$$G_WORKCOUNT);
;  767          1614  2
;  768          1615  2     IF ( NOT .CANTIM_STATUS) THEN SIGNAL_STOP (.CANTIM_STATUS);
;  769          1616  2
;  770          1617  2     FREEEF_STATUS = LIB$FREE_EF (WORKING_EFN);
;  771          1618  2
```

```
;  772          1619  2     IF ( NOT .FREEEF_STATUS) THEN SIGNAL_STOP (.FREEEF_STATUS);
;  773          1620  2
;  774          1621  2 !+
;  775          1622  2 ! Erase the working message when it is stopped if not already done
;  776          1623  2 !-
;  777          1624  2     FORMAT_ROUTINE = .EDT$$A_FMT_WRRUT;
;  778          1625  2     EDT$$A_FMT_WRRUT = EDT$$TI_WRSTR;
;  779          1626  2
;  780          1627  3     IF (.EDT$$G_WORKCOUNT)
;  781          1628  2     THEN
;  782          1629  3         BEGIN
;  783          1630  3         EDT$$SC_POSCSIF (.EDT$$G_MESSAGE_LINE + 1, 0);
;  784          1631  3         EDT$$SC_ERATOEOL ();
;  785          1632  3         EDT$$OUT_FMTBUF ();
;  786          1633  2         END;
;  787          1634  2
;  788          1635  2 !+
;  789          1636  2 ! If "working" was printed then reposition the cursor to the left-most
;  790          1637  2 ! position of the prompt.
;  791          1638  2 !-
;  792          1639  2
;  793          1640  3     IF (.EDT$$G_WORKCOUNT NEQ 0)
;  794          1641  2     THEN
;  795          1642  3         BEGIN
;  796          1643  3         EDT$$SC_POSCSIF (.EDT$$G_MESSAGE_LINE + 1, 0);
;  797          1644  3         EDT$$OUT_FMTBUF ();
;  798          1645  2         END;
;  799          1646  2
;  800          1647  2     EDT$$A_FMT_WRRUT = .FORMAT_ROUTINE;
;  801          1648  2     EDT$$G_SECOND = 0;
;  802          1649  1     END;                                        ! of routine EDT$$STOP_WKINGMSG


                                                .EXTRN  SYS$CANTIM

                                    03FC 00000  .ENTRY  EDT$$STOP_WKINGMSG, Save R2,R3,R4,R5,R6,R7,-  ; 1564
                                                        R8,R9
                                59 00000000G   00   9E 00002  MOVAB  EDT$$OUT_FMTBUF, R9
                                58 00000000G   00   9E 00009  MOVAB  EDT$$SC_POSCSIF, R8
                                57 00000000G   00   9E 00010  MOVAB  EDT$$G_MESSAGE_LINE, R7
                                56 00000000G   00   9E 00017  MOVAB  LIB$STOP, R6
                                55 00000000'   EF   9E 0001E  MOVAB  WORK_MESSAGE_RUNNING, R5
                                54 00000000G   00   9E 00025  MOVAB  EDT$$A_FMT_WRRUT, R4
                                53 00000000G   00   9E 0002C  MOVAB  EDT$$G_WORKCOUNT, R3
                                60             65   E9 00033  BLBC   WORK_MESSAGE_RUNNING, 5$              ; 1610
                                               65   D4 00036  CLRL   WORK_MESSAGE_RUNNING                  ; 1612
                                               7E   D4 00038  CLRL   -(SP)                                ; 1613
                                               53   DD 0003A  PUSHL  R3
                00000000G      00               02   FB 0003C  CALLS  #2, SYS$CANTIM
                               05               50   E8 00043  BLBS   CANTIM_STATUS, 1$                   ; 1615
                                               50   DD 00046  PUSHL  CANTIM_STATUS
                               66               01   FB 00048  CALLS  #1, LIB$STOP
                                     FC        A5   9F 0004B 1$:  PUSHAB WORKING_EFN                       ; 1617
                00000000G      00               01   FB 0004E  CALLS  #1, LIB$FREE_EF
                               05               50   E8 00055  BLBS   FREEEF_STATUS, 2$                   ; 1619
                                               50   DD 00058  PUSHL  FREEEF_STATUS
```

```
                                66              01  FB 0005A          CALLS   #1, LIB$STOP                                    ;
                                52              64  D0 0005D 2$:      MOVL    EDT$$A_FMT_WRRUT, FORMAT_ROUTINE                ; 1624
                                64 00000000G    00  9E 00060          MOVAB   EDT$$TI_WRSTR, EDT$$A_FMT_WRRUT             ; 1625
                                13              63  E9 00067          BLBC    EDT$$G_WORKCOUNT, 3$                            ; 1627
                                                7E  D4 0006A          CLRL    -(SP)                                           ; 1630
                        7E                      67  01  C1 0006C          ADDL3   #1, EDT$$G_MESSAGE_LINE, -(SP)
                                                68  02  FB 00070          CALLS   #2, EDT$$SC_POSCSIF
                            00000000G           00  00  FB 00073          CALLS   #0, EDT$$SC_ERATOEOL                        ; 1631
                                                69  00  FB 0007A          CALLS   #0, EDT$$OUT_FMTBUF                         ; 1632
                                                    63  D5 0007D 3$:      TSTL    EDT$$G_WORKCOUNT                            ; 1640
                                                    0C  13 0007F          BEQL    4$
                                                    7E  D4 00081          CLRL    -(SP)                                       ; 1643
                        7E                      67  01  C1 00083          ADDL3   #1, EDT$$G_MESSAGE_LINE, -(SP)
                                                68  02  FB 00087          CALLS   #2, EDT$$SC_POSCSIF
                                                69  00  FB 0008A          CALLS   #0, EDT$$OUT_FMTBUF                         ; 1644
                                                64  52  D0 0008D 4$:      MOVL    FORMAT_ROUTINE, EDT$$A_FMT_WRRUT            ; 1647
                                    00000000G   00  D4 00090          CLRL    EDT$$G_SECOND                               ; 1648
                                                    04 00096 5$:      RET                                                 ; 1649

; Routine Size:  151 bytes,    Routine Base:  _EDT$CODE + 0221

;  803          1650  1
```

```
;  805          1651  1 %SBTTL 'EDT$$MSG_TOSTR  - print a system message'
;  806          1652  1
;  807          1653  1 GLOBAL ROUTINE EDT$$MSG_TOSTR (                  ! Print a system message
;  808          1654  1     MESS_NUM                                      . message number
;  809          1655  1     ) : NOVALUE =
;  810          1656  1
;  811          1657  1 !++
;  812          1658  1 ! FUNCTIONAL DESCRIPTION:
;  813          1659  1 !
;  814          1660  1 !       Print a system message, given its message number.
;  815          1661  1 !
;  816          1662  1 ! FORMAL PARAMETERS:
;  817          1663  1 !
;  818          1664  1 !  MESS_NUM             The number of the message to print
;  819          1665  1 !
;  820          1666  1 ! IMPLICIT INPUTS:
;  821          1667  1 !
;  822          1668  1 !       NONE
;  823          1669  1 !
;  824          1670  1 ! IMPLICIT OUTPUTS:
;  825          1671  1 !
;  826          1672  1 !       NONE
;  827          1673  1 !
;  828          1674  1 ! ROUTINE VALUE:
;  829          1675  1 !
;  830          1676  1 !       NONE
;  831          1677  1 !
;  832          1678  1 ! SIDE EFFECTS:
;  833          1679  1 !
;  834          1680  1 !       Prints a message on the terminal.
;  835          1681  1 !
;  836          1682  1 !--
;  837          1683  1
;  838          1684  2     BEGIN
;  839          1685  2
;  840          1686  2     LOCAL
;  841          1687  2         MSGBUF : BLOCK [CH$ALLOCATION (80)],
;  842          1688  2         MSGDESC : VECTOR [2],
;  843          1689  2         MSGLEN;
;  844          1690  2
;  845          1691  2     MSGDESC [0] = 80;
;  846          1692  2     MSGDESC [1] = MSGBUF;
;  847          1693  2     $GETMSG (MSGID = .MESS_NUM, MSGLEN = MSGLEN, BUFADR = MSGDESC, FLAGS = 1);
;  848          1694  2     EDT$$FMT_STR (MSGBUF, .MSGLEN<0, 16>);
;  849          1695  1     END;                                          ! of routine EDT$$MSG_TOSTR


                                                        .EXTRN  SYS$GETMSG

                                        0000 00000      .ENTRY  EDT$$MSG_TOSTR, Save nothing                    ; 1653
                                5E      A4   AE  9E 00002       MOVAB   -92(SP), SP                             ;
                          04    AE      50   8F  9A 00006       MOVZBL  #80, MSGDESC                            ; 1691
                          08    AE      0C   AE  9E 0000B       MOVAB   MSGBUF, MSGDESC+4                       ; 1692
                                7E           01  7D 00010       MOVQ    #1, -(SP)                               ; 1693
                                        0C   AE  9F 00013       PUSHAB  MSGDESC                                 ;
                                        0C   AE  9F 00016       PUSHAB  MSGLEN                                  ;
```

```
                                 04   AC  DD 00019          PUSHL   MESS_NUM                                    ;
                      00000000G  00        05  FB 0001C    CALLS   #5, SYS$GETMSG                             ;
                                 7E        6E  3C 00023    MOVZWL  MSGLEN, -(SP)                              ; 1694
                                 10   AE  9F 00026          PUSHAB  MSGBUF                                     ;
                      00000000G  00        02  FB 00029    CALLS   #2, EDT$$FMT_STR                           ;
                                           04  00030        RET                                                ; 1695

; Routine Size:  49 bytes,    Routine Base:  _EDT$CODE + 02B8

;  850          1696  1
;  851          1697  1 !<BLF/PAGE>
```

```
;  853          1698  1 END                                   ! of module EDT$SYSVAX
;  854          1699  1
;  855          1700  0 ELUDOM


                                                        .EXTRN  LIB$STOP

;                                PSECT SUMMARY

;       Name                    Bytes                   Attributes

;  _EDT$DATA                     644  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,  PIC,ALIGN(2)
;  _EDT$CODE                     745  NOVEC,NOWRT,  RD ,  EXE,  SHR,  LCL,  REL,  CON,  PIC,ALIGN(2)


;                              Library Statistics

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

;  _$255$DUA28:[SYSLIB]STARLET.L32;1      9776         14         0         581        00:02.6
;  _$255$DUA28:[EDT.SRC]EDT.L32;1          377         37         9          40        00:00.8
;  _$255$DUA28:[EDT.SRC]PSECTS.L32;1         2          1        50           7        00:00.1
;  _$255$DUA28:[EDT.SRC]KEYPADDEF.L32;1     34          6        17           7        00:00.2


;                                  COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS$:SYSVAX/OBJ=OBJ$:SYSVAX MSRC$:SYSVAX.B32/UPDATE=(ENH$:SYSVAX)

; Size:          745 code + 644 data bytes
; Run Time:        00:43.4
; Elapsed Time:    00:58.6
; Lines/CPU Min:    2351
; Lexemes/CPU-Min:  8231
; Memory Used:  153 pages
; Compilation Complete
```