```
EEEEEEEEEEEEEEEE   DDDDDDDDDDD       TTTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEEE  DDDDDDDDDDD       TTTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEEE  DDDDDDDDDDD       TTTTTTTTTTTTTTTT
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
EEEEEEEEEEEEEEEE   DDDDDDDDDDD              TTT
EEEEEEEEEEEEEEEE   DDDDDDDDDDD              TTT
EEEEEEEEEEEEEEEE   DDDDDDDDDDD              TTT
```

```
CCCCCCCC   AAAAAA   LL          LL           WW       WW   IIIIII     000000
CCCCCCCC   AAAAAA   LL          LL           WW       WW   IIIIII     000000
CC        AA    AA  LL          LL           WW       WW     II      00      00
CC        AA    AA  LL          LL           WW       WW     II      00      00
CC        AA    AA  LL          LL           WW       WW     II      00      00
CC        AA    AA  LL          LL           WW       WW     II      00      00
CC        AA    AA  LL          LL           WW       WW     II      00      00
CC        AAAAAAAAAA LL         LL           WW   WW  WW     II      00      00
CC        AAAAAAAAAA LL         LL           WW   WW  WW     II      00      00
CC        AA    AA  LL          LL           WWWW   WWWW     II      00      00
CC        AA    AA  LL          LL           WWWW   WWWW     II      00      00    ....
CCCCCCCC  AA    AA  LLLLLLLLLL  LLLLLLLLLL   WW       WW   IIIIII     000000       ....
CCCCCCCC  AA    AA  LLLLLLLLLL  LLLLLLLLLL   WW       WW   IIIIII     000000       ....

LL          IIIIII    SSSSSSSS
LL          IIIIII    SSSSSSSS
LL            II    SS
LL            II    SS
LL            II    SS
LL            II      SSSSSS
LL            II      SSSSSS
LL            II          SS
LL            II          SS
LL            II          SS
LL            II          SS
LLLLLLLLLL  IIIIII    SSSSSSSS
LLLLLLLLLL  IIIIII    SSSSSSSS
```

```
    1    0001  0 %TITLE 'EDT$CALLWIO - calls WORKIO routine'
    2    0002  0 MODULE EDT$CALLWIO (                          ! Calls work I/O routine for EDT
    3    0003  0                    IDENT = 'V04-000'          ! File: CALLWIO.BLI Edit:  JBS1007
    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  *
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   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 routine calls the basic work I/O routine used by EDT.
   37    0037  1 !
   38    0038  1 ! ENVIRONMENT:  Runs on Vax/Vms
   39    0039  1 !
   40    0040  1 ! AUTHOR: Shelly T. Solomon, CREATION DATE: 27-Jan-1982
   41    0041  1 !
   42    0042  1 ! MODIFIED BY:
   43    0043  1 !
   44    0044  1 ! 1-001 - Original.  STS 27-Jan-1982
   45    0045  1 ! 1-002 - Signal bad status returned. STS 09-Mar-1982
   46    0046  1 ! 1-003 - Deallocate as much as possible if signalling. STS 09-Mar-1982
   47    0047  1 ! 1-004 - Don't enable a handler. STS 18-Mar-1982
   48    0048  1 ! 1-005 - Take out reference to work_rout on 11's. STS 02-Jun-1982
   49    0049  1 ! 1-006 - Enable a handler. STS 21-Jul-1982
   50    0050  1 ! 1-007 - Improve the appearance of the listing.  JBS 13-Jun-1983
   51    0051  1 !--
   52    0052  1
```

```
 54          0053  1 %SBTTL 'Declarations'
 55          0054  1 !
 56          0055  1 ! TABLE OF CONTENTS:
 57          0056  1 !
 58          0057  1
 59          0058  1 REQUIRE 'EDTSRC:TRAROUNAM';
 60          0497  1
 61          0498  1 FORWARD ROUTINE
 62          0499  1     EDT$$CALLWIO;
 63          0500  1
 64          0501  1 !
 65          0502  1 ! LINKAGES
 66          0503  1 !
 67          0504  1
 68          0505  1 LINKAGE
 69          0506  1     IOCALL = CALL (REGISTER = 1);                        ! special linkage for work routine
 70          0507  1
 71          0508  1 !
 72          0509  1 ! INCLUDE FILES:
 73          0510  1 !
 74          0511  1
 75          0512  1 REQUIRE 'EDTSRC:EDTREQ';
 76          0647  1
 77        L 0648  1 %IF %BLISS (BLISS32)
 78          0649  1 %THEN
 79          0650  1
 80          0651  1 REQUIRE 'EDTSRC:SYSSYM';
 81          0681  1
 82          0682  1 %FI
 83          0683  1
 84          0684  1 !
 85          0685  1 ! MACROS:
 86          0686  1 !
 87          0687  1 !       NONE
 88          0688  1 !
 89          0689  1 ! EQUATED SYMBOLS:
 90          0690  1 !
 91          0691  1 !       NONE
 92          0692  1 !
 93          0693  1 ! EXTERNAL REFERENCES:
 94          0694  1 !
 95          0695  1 ! in the routine
 96          0696  1 !
```

```
                                                      H 8
EDT$CALLWIO        EDT$CALLWIO - calls WORKIO routine        15-Sep-1984 23:43:42   VAX-11 Bliss-32 V4.0-742        Page  3
V04-000            EDT$CALLWIO - Calls EDT work I/O routine  14-Sep-1984 12:22:18   DISK$VMSMASTER:[EDT.SRC]CALLWIO.BLI;1   (3)
```

```
   98        0697  1  %SBTTL 'EDT$CALLWIO - Calls EDT work I/O routine'
   99        0698  1
  100        0699  1  GLOBAL ROUTINE EDT$$CALLWIO (                      ! Calls EDT work I/O routine
  101        0700  1      CODE,                                          ! Operation code
  102        0701  1      RECORD_NO,                                     ! Record number
  103        0702  1      RECORD_DESC                                    ! Record descriptor
  104        0703  1      ) : =
  105        0704  1
  106        0705  1  !++
  107        0706  1  ! FUNCTIONAL DESCRIPTION:
  108        0707  1  !
  109        0708  1  ! This routine sets up a condition handler and then calls the designated
  110        0709  1  ! work I/O routine.
  111        0710  1  !
  112        0711  1  ! FORMAL PARAMETERS:
  113        0712  1  !
  114        0713  1  ! CODE - the operation to be performed, whether open, close, read or write
  115        0714  1  !
  116        0715  1  ! RECORD_NO - the number of the record to be read or put
  117        0716  1  !
  118        0717  1  ! RECORD_DESC - a descriptor pointing to the place to put the record read, or
  119        0718  1  !                to find the record written
  120        0719  1  !
  121        0720  1  ! IMPLICIT INPUTS:
  122        0721  1  !
  123        0722  1  !     NONE
  124        0723  1  !
  125        0724  1  ! IMPLICIT OUTPUTS:
  126        0725  1  !
  127        0726  1  !     NONE
  128        0727  1  !
  129        0728  1  ! COMPLETION STATUS:
  130        0729  1  !
  131        0730  1  !     Same as WORKIO
  132        0731  1  !
  133        0732  1  ! SIDE EFFECTS:
  134        0733  1  !
  135        0734  1  !     NONE
  136        0735  1  !
  137        0736  1  !--
  138        0737  1
  139        0738  2      BEGIN
  140        0739  2
  141    L   0740  2  %IF %BLISS (BLISS32)
  142        0741  2  %THEN
  143        0742  2
  144        0743  2      EXTERNAL ROUTINE
  145        0744  2          EDT$$WIOHNDLR,
  146        0745  2          EDT$$SC_RESET,
  147        0746  2          EDT$$DEA_ALLHEAP,
  148        0747  2          STR$FREET_DX;
  149        0748  2
  150        0749  2      EXTERNAL
  151        0750  2          EDT$$A_WORK_ROUT,                          ! address of routine for work I/O
  152        0751  2          EDT$$G_WORK_ENV,                           ! file routine environment word
  153        0752  2          EDT$$G_EDIT_MOD;
  154        0753  2
```

```
                                           I 8
EDT$CALLWIO      EDT$CALLWIO - calls WORKIO routine          15-Sep-1984 23:43:42    VAX-11 Bliss-32 V4.0-742        Page  4
V04-000          EDT$CALLWIO - Calls EDT work I/O routine    14-Sep-1984 12:22:18    DISK$VMSMASTER:[EDT.SRC]CALLWIO.BLI;1   (3)
```

```
  155      U 0754   2   %ELSE
  156      U 0755   2
  157      U 0756   2       EXTERNAL ROUTINE
  158      U 0757   2           EDT$WORKIO;
  159      U 0758   2
  160        0759   2   %FI
  161        0760   2
  162        0761   2       LOCAL
  163        0762   2           STATUS;
  164        0763   2
  165        0764   2       MESSAGES ((PASSTATUS));
  166        0765   2   !+
  167        0766   2   ! The following call is a general routine call using the linkage defined
  168        0767   2   ! as iocall.  i.e. what is happening is that a call is being made to the
  169        0768   2   ! routine whose address is contained in the variable EDT$$A_WORK_ROUT.
  170        0769   2   ! The contents of the variable EDT$$G_WORK_ENV is first put into register 1
  171        0770   2   ! for the call. (This is done because of the requirements of callable EDT
  172        0771   2   ! where the user can specify his own work routine and some high-level
  173        0772   2   ! languages require an environment word to be passed in register 0.)
  174        0773   2   ! The remaining three parameters in the list are the actual parameters
  175        0774   2   ! passed to the work I/O routine.
  176        0775   2   !-
  177        0776   2
  178      L 0777   2   %IF %BLISS (BLISS32)
  179        0778   2   %THEN
  180        0779   2
  181        0780   2       ENABLE
  182        0781   2           EDT$$WIOHNDLR ();
  183        0782   2
  184        0783   2       STATUS = IOCALL (.EDT$$A_WORK_ROUT, .EDT$$G_WORK_ENV, %REF (.CODE), .RECORD_NO, .RECORD_DESC);
  185      U 0784   2   %ELSE
  186      U 0785   2       STATUS = EDT$WORKIO (%REF (.CODE), .RECORD_NO, .RECORD_DESC);
  187        0786   2   %FI
  188        0787   2
  189      L 0788   2   %IF %BLISS (BLISS32)
  190        0789   2   %THEN
  191        0790   2
  192        0791   3       IF ( NOT .STATUS)
  193        0792   2       THEN
  194        0793   3           BEGIN
  195        0794   3
  196        0795   3           IF (.EDT$$G_EDIT_MOD EQL CHANGE_MODE) THEN EDT$$SC_RESET ();
  197        0796   3
  198        0797   3           STR$FREE1_DX (.RECORD_DESC);
  199        0798   3           EDT$$DEA_ALLHEAP ();
  200        0799   3           SIGNAL_STOP (EDT$_PASSTATUS, 0, .STATUS, 0);
  201        0800   2           END;
  202        0801   2
  203        0802   2   %FI
  204        0803   2
  205        0804   2       RETURN (.STATUS);
  206        0805   1       END;                                                    ! End of routine CALLWIO


                                   .TITLE   EDT$CALLWIO EDT$CALLWIO - calls WORKIO routine
                                   .IDENT   \V04-000\
```

```
EDT$CALLWIO      EDT$CALLWIO - calls WORKIO routine          15-Sep-1984 23:43:42   VAX-11 Bliss-32 V4.0-742           Page  5
V04-000          EDT$CALLWIO - Calls EDT work I/O routine    14-Sep-1984 12:22:18   DISK$VMSMASTER:[EDT.SRC]CALLWIO.BLI;1   (3)
```

```
                                                    .EXTRN   EDT$$WIOHNDLR, EDT$$SC_RESET
                                                    .EXTRN   EDT$$DEA_ALLHEAP
                                                    .EXTRN   STR$FREE1_DX, EDT$$A_WORK_ROUT
                                                    .EXTRN   EDT$$G_WORK_ENV
                                                    .EXTRN   EDT$$G_EDIT_MOD
                                                    .EXTRN   EDT$_PASSTATUS

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

                                 0004 00000         .ENTRY   EDT$$CALLWIO, Save R2              ; 0699
                      5E         04 C2 00002        SUBL2    #4, SP
                      6D   005B  CF DE 00005        MOVAL    3$, (FP)                           ; 0738
                      50 00000000G 00 D0 0000A      MOVL     EDT$$A_WORK_ROUT, R0               ; 0783
                      7E      08  AC 7D 00011        MOVQ     RECORD_NO, -(SP)
            08        AE      04  AC D0 00015        MOVL     CODE, 8(SP)
                      08      AE  9F 0001A           PUSHAB   8(SP)
                      51 00000000G 00 D0 0001D       MOVL     EDT$$G_WORK_ENV, R1
                      60         03 FB 00024          CALLS    #3, (R0)
                      52         50 D0 00027          MOVL     R0, STATUS
                      33         52 E8 0002A          BLBS     STATUS, 2$                        ; 0791
                  00000000G     00 D5 0002D           TSTL     EDT$$G_EDIT_MOD                   ; 0795
                      07         12 00033             BNEQ     1$
      00000000G 00    00 FB 00035                      CALLS    #0, EDT$$SC_RESET
                      0C  AC DD 0003C 1$:              PUSHL    RECORD_DESC                      ; 0797
      00000000G 00    01 FB 0003F                     CALLS    #1, STR$FREE1_DX
      00000000G 00    00 FB 00046                     CALLS    #0, EDT$$DEA_ALLHEAP            ; 0798
                      7E D4 0004D                       CLRL     -(SP)                          ; 0799
                      52 DD 0004F                       PUSHL    STATUS
                      7E D4 00051                       CLRL     -(SP)
          00000000G   8F DD 00053                       PUSHL    #EDT$_PASSTATUS
      00000000G 00    04 FB 00059                       CALLS    #4, LIB$STOP
                      50 52 D0 00060 2$:               MOVL     STATUS, R0                     ; 0804
                      04 00063                          RET                                    ; 0805
                 0000 00064 3$:                        .WORD    Save nothing                   ; 0738
                      7E D4 00066                       CLRL     -(SP)
                      5E DD 00068                       PUSHL    SP
                      7E 04 AC 7D 0006A               MOVQ     4(AP), -(SP)
      00000000G 00    03 FB 0006E                     CALLS    #3, EDT$$WIOHNDLR
                      04 00075                          RET
```

; Routine Size: 118 bytes,   Routine Base: _EDT$CODE + 0000

; 207   0806 1
; 208   0807 1 !<BLF/PAGE>

EDT$CALLWIO   EDT$CALLWIO - calls WORKIO routine   K 8
                                                          15-Sep-1984 23:43:42   VAX-11 Bliss-32 V4.0-742   Page 6
V04-000   EDT$CALLWIO - Calls EDT work I/O routine   14-Sep-1984 12:22:18   DISK$VMSMASTER:[EDT.SRC]CALLWIO.BLI;1   (4)

```
; 210            0808  1 END                                          ! End of module CALLWIO
; 211            0809  1
; 212            0810  0 E!UDOM
```

.EXTRN LIB$STOP

```
;                           PSECT SUMMARY
;
;
;      Name                        Bytes                        Attributes
;
;  _EDT$CODE                         118  NOVEC,NOWRT,  RD ,  EXE,  SHR,  LCL,  REL,  CON,  PIC,ALIGN(2)
```

```
;                     Library Statistics
;
;                               -------- Symbols --------      Pages      Processing
;      File                     Total    Loaded   Percent      Mapped     Time
;
;  _$255$DUA28:[EDT.SRC]EDT.L32;1        377        2        0        40        00:00.2
;  _$255$DUA28:[EDT.SRC]PSECTS.L32;1       2        1       50         7        00:00.1
;  _$255$DUA28:[SYSLIB]STARLET.L32;1    9776        0        0       581        00:04.0
```

```
;                           COMMAND QUALIFIERS
;
;      BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS$:CALLWIO/OBJ=OBJ$:CALLWIO MSRC$:CALLWIO.BLI/UPDATE=(ENH$:CALLWIO
;      )
```

```
; Size:          118 code + 0 data bytes
; Run Time:         00:16.8
; Elapsed Time:     00:30.5
; Lines/CPU Min:    2898
; Lexemes/CPU-Min:  7738
; Memory Used:  83 pages
; Compilation Complete
```

ERRMSG
REQ

TRACEOFF
REQ

SUPPORTS
REQ

TRAROUNAM
REQ

BADKEY
LIS

CHMCMBLIN
LIS

TRACEON
REQ

TRANSLATE
REQ

CALLWIO
LIS

CHMBEGSEN
LIS

CHMBELL
LIS

SYSSYM
REQ

TRANNAMES
REQ

CHMCHGC
LIS

CHMDELLIN
LIS

TRACELIT
REQ

EDTREQ
REQ

KEYPADDEF
REQ

CALLFIO
LIS

CHMBEGWRD
LIS

CHMCLRCC
LIS

CHMCMBLIN
LIS

CHMBEEP
LIS

CHMCHANGE
LIS

TRACEMAC
REQ

CHMDELCHR
LIS

PSECTS
REQ

VERSION
REQ

CHMCHKCC
LIS

CHMEINPUT
LIS