```
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
EEEEEEEEEEEEEEEEE   DDDDDDDDDDD               TTT
EEEEEEEEEEEEEEEEE   DDDDDDDDDDD               TTT
EEEEEEEEEEEEEEEEE   DDDDDDDDDDD               TTT
```

Mod
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```
WW      WW  FFFFFFFFFF  CCCCCCC   000000   PPPPPPP   LL          IIIIII   NN      NN
WW      WW  FFFFFFFFFF  CCCCCCC   000000   PPPPPPP   LL          IIIIII   NN      NN
WW      WW  FF          CC       00    00  PP    PP  LL            II     NN      NN
WW      WW  FF          CC       00    00  PP    PP  LL            II     NN      NN
WW      WW  FF          CC       00    00  PP    PP  LL            II     NNNN    NN
WW      WW  FFFFFFFF    CC       00    00  PPPPPPP   LL            II     NNNN    NN
WW      WW  FFFFFFF     CC       00    00  PPPPPPP   LL            II     NN  NN  NN
WW   WW WW  FF          CC       00    00  PP        LL            II     NN  NN  NN
WW   WW WW  FF          CC       00    00  PP        LL            II     NN   NNNN
WWWW  WWWW  FF          CC       00    00  PP        LL            II     NN   NNNN
WWWW  WWWW  FF          CC       00    00  PP        LL            II     NN      NN     ....
WW      WW  FF                   CCCCCCC   000000    PP        LLLLLLLLLL  IIIIII  NN      NN     ....
WW      WW  FF                   CCCCCCC   000000    PP        LLLLLLLLLL  IIIIII  NN      NN     ....

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
LLLLLLLLLL    IIIIII    SSSSSSSS
LLLLLLLLLL    IIIIII    SSSSSSSS
```

```
    1    0001   0  %TITLE 'EDT$WFCOPLIN - copy a line'
    2    0002   0  MODULE EDT$WFCOPLIN (                              ! Copy a line
    3    0003   0                    IDENT = 'V04-000'               ! File: WFCOPLIN.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   *
   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  !     Copy a line, optionally deleting it.
   37    0037   1  !
   38    0038   1  ! ENVIRONMENT:  Runs at any access mode - AST reentrant
   39    0039   1  !
   40    0040   1  ! AUTHOR: Bob Kushlis, CREATION DATE: October 16, 1978
   41    0041   1  !
   42    0042   1  ! MODIFIED BY:
   43    0043   1  !
   44    0044   1  ! 1-001 - Original.  DJS 23-Feb-1981.  This module was created by
   45    0045   1  !         extracting routine EDT$$CPY_LN  from module EDTWF.
   46    0046   1  ! 1-002 - Regularize headers.  JBS 16-Mar-1981
   47    0047   1  ! 1-003 - Save line being copied since we don't have indirect access
   48    0048   1  !         into the workfile anymore. STS 23-Feb-1982
   49    0049   1  ! 1-004 - Make line larger.  STS 23-Feb-1982
   50    0050   1  ! 1-005 - Change stack allocation to get heap storage. STS 05-Mar-1982
   51    0051   1  ! 1-006 - Give an error return if the heap storage is not available.  JBS 09-Jun-1982
   52    0052   1  ! 1-007 - Improve the appearance of the listing.  JBS 20-Jun-1983
   53    0053   1  !--
   54    0054   1
```

```
 56        0055  1  %SBTTL 'Declarations'
 57        0056  1  !
 58        0057  1  !  TABLE OF CONTENTS:
 59        0058  1  !
 60        0059  1
 61        0060  1  REQUIRE 'EDTSRC:TRAROUNAM';
 62        0499  1
 63        0500  1  FORWARD ROUTINE
 64        0501  1      EDT$$CPY_LN;
 65        0502  1
 66        0503  1  !
 67        0504  1  !  INCLUDE FILES:
 68        0505  1  !
 69        0506  1
 70        0507  1  REQUIRE 'EDTSRC:EDTREQ';
 71        0642  1
 72        0643  1  !
 73        0644  1  !  MACROS:
 74        0645  1  !
 75        0646  1  !      NONE
 76        0647  1  !
 77        0648  1  !  EQUATED SYMBOLS:
 78        0649  1  !
 79        0650  1  !      NONE
 80        0651  1  !
 81        0652  1  !  OWN STORAGE:
 82        0653  1  !
 83        0654  1  !      NONE
 84        0655  1  !
 85        0656  1  !  EXTERNAL REFERENCES:
 86        0657  1  !
 87        0658  1  !      In the routine
```

EDT$WFCOPLIN                EDT$WFCOPLIN - copy a line                          E 5
                                                                    16-Sep-1984 02:04:05    VAX-11 Bliss-32 V4.0-742          Page   3
V04-000                     EDT$$CPY_LN - copy a line              14-Sep-1984 12:25:27    DISK$VMSMASTER:[EDT.SRC]WFCOPLIN.BLI;1    (3)

```
 89        0659  1 %SBTTL 'EDT$$CPY_LN - copy a line'
 90        0660  1
 91        0661  1 GLOBAL ROUTINE EDT$$CPY_LN (                              ! Copy a line
 92        0662  1     DELETE                                               ! 1 = delete after copying
 93        0663  1     ) =
 94        0664  1
 95        0665  1 !++
 96        0666  1 ! FUNCTIONAL DESCRIPTION:
 97        0667  1 !
 98        0668  1 !     Copy a line.  The delete parameter indicates that the line
 99        0669  1 !     should be deleted after copying.
100        0670  1 !
101        0671  1 ! FORMAL PARAMETERS:
102        0672  1 !
103        0673  1 !  DELETE                  1 = delete after copying
104        0674  1 !
105        0675  1 ! IMPLICIT INPUTS:
106        0676  1 !
107        0677  1 !     EDT$$A_CUR_BUF
108        0678  1 !     EDT$$A_ALT_BUF
109        0679  1 !     EDT$$A_WK_LN
110        0680  1 !
111        0681  1 ! IMPLICIT OUTPUTS:
112        0682  1 !
113        0683  1 !     EDT$$A_CUR_BUF
114        0684  1 !
115        0685  1 ! ROUTINE VALUE:
116        0686  1 !
117        0687  1 !     1 = OK
118        0688  1 !     0 = failed for lack of heap storage
119        0689  1 !
120        0690  1 ! SIDE EFFECTS:
121        0691  1 !
122        0692  1 !     NONE
123        0693  1 !
124        0694  1 !--
125        0695  1
126        0696  2     BEGIN
127        0697  2
128        0698  2     EXTERNAL ROUTINE
129        0699  2         EDT$$ALO_HEAP,                               ! Allocate heap storage
130        0700  2         EDT$$DEA_HEAP : NOVALUE,                     ! Deallocate heap storage
131        0701  2         EDT$$DEL_CURLN : NOVALUE,
132        0702  2         EDT$$INS_LN : NOVALUE,
133        0703  2         EDT$$RD_CURLN : NOVALUE;
134        0704
135        0705  2     EXTERNAL
136        0706  2         EDT$$A_CUR_BUF : REF TBCB_BLOCK,             ! Current text buffer control block
137        0707  2         EDT$$A_ALT_BUF,                             ! Alternate text buffer control block
138        0708  2         EDT$$A_WK_LN : REF LIN_BLOCK;               ! Pointer to current line
139        0709  2
140        0710  2     LOCAL
141        0711  2         SAVE_TBCB,
142        0712  2         LINE,
143        0713  2         LINE_LEN;
144        0714
145        0715  2 !+
```

```
:  146    0716  2 ! since we do not have indirect access to the workfile with callable EDT
:  147    0717  2 ! we must copy out the line we wish to copy before we get the next bucket.
:  148    0718  2 !-
:  149    0719  2
:  150    0720  2        IF ( NOT EDT$$ALO_HEAP (%REF (512), LINE)) THEN RETURN (0);
:  151    0721  2
:  152    0722  2        LINE_LEN = .EDT$$A_WK_LN [LIN_LENGTH];
:  153    0723  2        EDT$$CPY_MEM (.LINE_LEN, EDT$$A_WK_LN [LIN_TEXT], .LINE);
:  154    0724  2        SAVE_TBCB = .EDT$$A_CUR_BUF;
:  155    0725  2        EDT$$A_CUR_BUF = .EDT$$A_ALT_BUF;
:  156    0726  2        EDT$$RD_CURLN ();
:  157    0727  2        EDT$$INS_LN (.LINE, .LINE_LEN);
:  158    0728  2        EDT$$DEA_HEAP (%REF (512), LINE);
:  159    0729  2        EDT$$A_CUR_BUF = .SAVE_TBCB;
:  160    0730  2        EDT$$RD_CURLN ();
:  161    0731  2
:  162    0732  2        IF .DELETE THEN EDT$$DEL_CURLN ();
:  163    0733  2
:  164    0734  2        RETURN (1);
:  165    0735  1        END;                                    ! of routine EDT$$CPY_LN


                                        .TITLE  EDT$WFCOPLIN EDT$WFCOPLIN - copy a line
                                        .IDENT  \V04-000\

                                        .EXTRN  EDT$$ALO_HEAP, EDT$$DEA_HEAP
                                        .EXTRN  EDT$$DEL_CURLN, EDT$$INS_LN
                                        .EXTRN  EDT$$RD_CURLN, EDT$$A_CUR_BUF
                                        .EXTRN  EDT$$A_ALT_BUF, EDT$$A_WK_LN

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

                            01FC 00000  .ENTRY  EDT$$CPY_LN, Save R2,R3,R4,R5,R6,R7,R8    ; 0661
                58 00000000G 00 9E 00002  MOVAB   EDT$$RD_CURLN, R8
                57 00000000G 00 9E 00009  MOVAB   EDT$$A_CUR_BUF, R7
                5E          08 C2 00010  SUBL2   #8, SP
                         04 AE 9F 00013  PUSHAB  LINE                                     ; 0720
          04 AE 0200 8F 3C 00016  MOVZWL  #512, 4(SP)
                         04 AE 9F 0001C  PUSHAB  4(SP)
       00000000G 00      02 FB 0001F  CALLS   #2, EDT$$ALO_HEAP
                51          50 E9 00026  BLBC    R0, 2$
       50 00000000G 00      D0 00029  MOVL    EDT$$A_WK_LN, R0                          ; 0722
                56          60 9A 00030  MOVZBL  (R0), LINE_LEN
 04 BE 07 A0       56 28 00033  MOVC3   LINE_LEN, 7(R0), @LINE                   ; 0723
                52          67 D0 00039  MOVL    EDT$$A_CUR_BUF, SAVE_TBCB               ; 0724
       67 00000000G 00      D0 0003C  MOVL    EDT$$A_ALT_BUF, EDT$$A_CUR_BUF          ; 0725
                68          00 FB 00043  CALLS   #0, EDT$$RD_CURLN                       ; 0726
                56          DD 00046  PUSHL   LINE_LEN                                 ; 0727
                08 AE       DD 00048  PUSHL   LINE
       00000000G 00      02 FB 0004B  CALLS   #2, EDT$$INS_LN
                         04 AE 9F 00052  PUSHAB  LINE                                     ; 0728
          04 AE 0200 8F 3C 00055  MOVZWL  #512, 4(SP)
                         04 AE 9F 0005B  PUSHAB  4(SP)
       00000000G 00      02 FB 0005E  CALLS   #2, EDT$$DEA_HEAP
                67          52 D0 00065  MOVL    SAVE_TBCB, EDT$$A_CUR_BUF               ; 0729
                68          00 FB 00068  CALLS   #0, EDT$$RD_CURLN                       ; 0730
                07       04 AC E9 0006B  BLBC    DELETE, 1$                               ; 0732
```

EDT$WFCOPLIN          EDT$WFCOPLIN - copy a line                                          G  5
V04-000               EDT$$CPY_LN  - copy a line                            16-Sep-1984 02:04:05    VAX-11 Bliss-32 V4.0-742              Page  5
                                                                            14-Sep-1984 12:25:27    DISK$VMSMASTER:[EDT.SRC]WFCOPLIN.BLI;1   (3)

```
                    00000000G  00                00 FB 0006F          CALLS    #0, EDT$$DEL_CURLN
                               50                01 D0 00076 1$:      MOVL     #1, R0                                              : 0734
                                                 04 00079             RET
                                              50 D4 0007A 2$:         CLRL     R0                                                  : 0735
                                                 04 0007C             RET
```

; Routine Size: 125 bytes,    Routine Base: _EDT$CODE + 0000

```
:  166              0736  1
:  167              0737  1 !<BLF/PAGE>
```

EDT$WFCOPLIN          EDT$WFCOPLIN - copy a line                    H 5                                                          Page   6
V04-000               EDT$$CPY_LN - copy a line          16-Sep-1984 02:04:05   VAX-11 Bliss-32 V4.0-742                   (4)
                                                         14-Sep-1984 12:25:27   DISK$VMSMASTER:[EDT.SRC]WFCOPLIN.BLI;1

```
;  169          0738 1 END
;  170          0739 1                                  ! of module EDT$WFCOPLIN
;  171          0740 0 ELUDOM
```

;
;
;
;                              PSECT SUMMARY
;
;        Name                      Bytes                        Attributes
;
;  _EDT$CODE                          125  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      32         8       40      00:00.2
;  _$255$DUA28:[EDT.SRC]PSECTS.L32;1    2       1        50        7      00:00.1

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

```
; Size:         125 code + 0 data bytes
; Run Time:        00:11.1
; Elapsed Time:    00:13.7
; Lines/CPU Min:    4010
; Lexemes/CPU-Min: 11593
; Memory Used:  75 pages
; Compilation Complete
```

VMSMSG
LIS

WFCOPLIN
LIS

USSTRING
LIS

WFSCOPY
LIS

WFDELLIN
LIS

WFGETBKT
LIS

WFOPNBUF
LIS

WFREABCK
LIS

WFREAFWD
LIS

WFSTRINS
LIS

WFAPPBKT
LIS

WFRESSEQ
LIS

USBUFFER
LIS

WFCLEAR
LIS

USSUBS
LIS

WFDELBKT
LIS

WFSPLBKT
LIS

WFLOCLIN
LIS

WFRBUKT
LIS

WFINSLIN
LIS

WFREACUR
LIS

WFREAINP
LIS

WFTOP
LIS

WFREPLIN
LIS

WFBOTTOM
LIS

WFECOPY
LIS