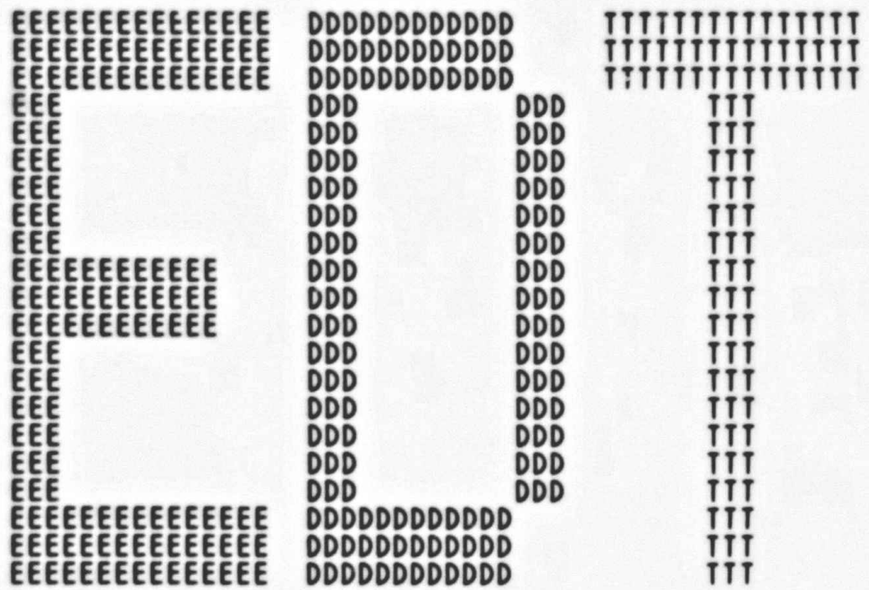
EEEEEEEEEEEEEEE DDDDDDDDDDD TTTTTTTTTTTTTTTT
EEEEEEEEEEEEEEE DDDDDDDDDDDD TTTTTTTTTTTTTTTT
EEEEEEEEEEEEEEE DDDDDDDDDDDD TTTTTTTTTTTTTTTT
EEE DDD DDD TTT
EEE DDD DDD TTT
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EEEEEEEEEEEEEEE DDDDDDDDDDD TTT
EEEEEEEEEEEEEEE DDDDDDDDDDDD TTT
EEEEEEEEEEEEEEE DDDDDDDDDDDD TTT

FILEID**WFREPLIN

```
WW      WW  FFFFFFFFFF  RRRRRRRR    EEEEEEEEEE  PPPPPPPP    LL          IIIIII    NN      NN
WW      WW  FFFFFFFFFF  RRRRRRRR    EEEEEEEEEE  PPPPPPPP    LL          IIIIII    NN      NN
WW      WW  FF          RR      RR  EE          PP      PP  LL            II      NN      NN
WW      WW  FF          RR      RR  EE          PP      PP  LL            II      NN      NN
WW      WW  FF          RR      RR  EE          PP      PP  LL            II      NNNN    NN
WW      WW  FF          RR      RR  EE          PP      PP  LL            II      NNNN    NN
WW      WW  FFFFFFFF    RRRRRRRR    EEEEEEEE    PPPPPPPP    LL            II      NN  NN  NN
WW      WW  FFFFFFFF    RRRRRRRR    EEEEEEEE    PPPPPPPP    LL            II      NN  NN  NN
WW  WW  WW  FF          RR   RR     EE          PP          LL            II      NN    NNNN
WW  WW  WW  FF          RR   RR     EE          PP          LL            II      NN    NNNN
WWWW  WWWW  FF          RR    RR    EE          PP          LL            II      NN      NN      ....
WWWW  WWWW  FF          RR    RR    EE          PP          LL            II      NN      NN      ....
WW      WW  FF          RR      RR  EEEEEEEEEE  PP          LLLLLLLLLL  IIIIII    NN      NN      ....
WW      WW  FF          RR      RR  EEEEEEEEEE  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
LL              II              SS
LLLLLLLLLL    IIIIII    SSSSSSSS
LLLLLLLLLL    IIIIII    SSSSSSSS
```

EDTS
V04-

```
;  1          0001  0 %TITLE 'EDT$WFREPLIN - replace the current line'
;  2          0002  0 MODULE EDT$WFREPLIN (                           ! Replace the current line
;  3          0003  0                     IDENT = 'V04-000'           ! File: WFREPLIN.BLI Edit: JBS1008
;  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.                        *
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; 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       *
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; 23          0023  1 !*                                                                                *
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; 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 !       Replace the current line with a specified line.
; 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$$RPL_LN  from module EDTWF.
; 46          0046  1 ! 1-002 - Regularize headers.  JBS 19-Mar-1981
; 47          0047  1 ! 1-003 - Change index for line numbers from 10 to 15.  SMB 18-Jan-1982
; 48          0048  1 ! 1-004 - Remove original line numbers.  SMB 28-Jan-1982
; 49          0049  1 ! 1-005 - Do most replaces without doing delete/insert, to improve
; 50          0050  1 !         performance, especially when updating the screen.  JBS 04-Oct-1982
; 51          0051  1 ! 1-006 - Preserve EDT$$A_SEL_POS if we must delete and then insert.  JBS 09-Nov-1982
; 52          0052  1 ! 1-007 - Don't disturb the screen data base if we must delete and then insert.  JBS 01-Dec-1982
; 53          0053  1 ! 1-008 - No longer need to decrement EDT$$L_WK_INSCNT; now done by EDT$$DEL_CURLN.  JBS 01-Jun-1983
; 54          0054  1 ! 1-009 - Remove edit 1-008 : too many side effects.  JBS 01-Jun-1983
; 55          0055  1 !--
; 56          0056  1
```

```
;    58          0057  1 %SBTTL 'Declarations'
;    59          0058  1 !
;    60          0059  1 ! TABLE OF CONTENTS:
;    61          0060  1 !
;    62          0061  1
;    63          0062  1 REQUIRE 'EDTSRC:TRAROUNAM';
;    64          0501  1
;    65          0502  1 FORWARD ROUTINE
;    66          0503  1     EDT$$RPL_LN : NOVALUE;
;    67          0504  1
;    68          0505  1 !
;    69          0506  1 ! INCLUDE FILES:
;    70          0507  1 !
;    71          0508  1
;    72          0509  1 REQUIRE 'EDTSRC:EDTREQ';
;    73          0644  1
;    74          0645  1 !
;    75          0646  1 ! MACROS:
;    76          0647  1 !
;    77          0648  1 !       NONE
;    78          0649  1 !
;    79          0650  1 ! EQUATED SYMBOLS:
;    80          0651  1 !
;    81          0652  1 !       NONE
;    82          0653  1 !
;    83          0654  1 ! OWN STORAGE:
;    84          0655  1 !
;    85          0656  1 !       NONE
;    86          0657  1 !
;    87          0658  1 ! EXTERNAL REFERENCES:
;    88          0659  1 !
;    89          0660  1 !       In the routine
```

```
;    91          0661  1 %SBTTL 'EDT$$RPL_LN  - replace the current line'
;    92          0662  1
;    93          0663  1 GLOBAL ROUTINE EDT$$RPL_LN (                        ! Replace the current line
;    94          0664  1     NEWLINE,                                        ! Address of the new line
;    95          0665  1     LEN                                             ! Length of the new line
;    96          0666  1     ) : NOVALUE =
;    97          0667  1
;    98          0668  1 !++
;    99          0669  1 ! FUNCTIONAL DESCRIPTION:
;   100          0670  1 !
;   101          0671  1 !       Replace the current line.  If the replacement line is the same size as
;   102          0672  1 !       the current line, just copy the new one in its place, otherwise, delete
;   103          0673  1 !       the current line and insert the new one.
;   104          0674  1 !
;   105          0675  1 ! FORMAL PARAMETERS:
;   106          0676  1 !
;   107          0677  1 !  NEWLINE              a pointer to the new line
;   108          0678  1 !
;   109          0679  1 !  LEN                  its length
;   110          0680  1 !
;   111          0681  1 ! IMPLICIT INPUTS:
;   112          0682  1 !
;   113          0683  1 !       EDT$$A_WK_LN
;   114          0684  1 !       EDT$$G_WK_MODFD
;   115          0685  1 !       EDT$$L_LN00
;   116          0686  1 !       EDT$$A_CUR_BUF
;   117          0687  1 !       EDT$$A_WK_BUK
;   118          0688  1 !
;   119          0689  1 ! IMPLICIT OUTPUTS:
;   120          0690  1 !
;   121          0691  1 !       EDT$$A_WK_LN
;   122          0692  1 !       EDT$$A_CUR_BUF
;   123          0693  1 !       EDT$$A_WK_BUK
;   124          0694  1 !       EDT$$L_WK_INSCNT
;   125          0695  1 !
;   126          0696  1 ! ROUTINE VALUE:
;   127          0697  1 !
;   128          0698  1 !       NONE
;   129          0699  1 !
;   130          0700  1 ! SIDE EFFECTS:
;   131          0701  1 !
;   132          0702  1 !       NONE
;   133          0703  1 !
;   134          0704  1 !--
;   135          0705  1
;   136          0706  2     BEGIN
;   137          0707  2
;   138          0708  2     EXTERNAL ROUTINE
;   139          0709  2         EDT$$DEL_CURLN : NOVALUE,
;   140          0710  2         EDT$$INS_LN : NOVALUE,
;   141          0711  2         EDT$$RD_PRVLN;
;   142          0712  2
;   143          0713  2     EXTERNAL
;   144          0714  2         EDT$$A_WK_LN : REF LIN_BLOCK,               ! Pointer to current line
;   145          0715  2         EDT$$G_WK_MODFD,                            ! Flag indicating bucket was modified
;   146          0716  2         EDT$$L_LN00 : LNOVECTOR [14],               ! 48-bit line numbers
;   147          0717  2         EDT$$A_CUR_BUF : REF TBCB_BLOCK,            ! Current text buffer control block
```

```
;  148          0718  2          EDT$$A_WK_BUK : REF BLOCK [WF_BUKT_SIZE, BYTE] FIELD (WFB_FIELDS),
;  149          0719  2          EDT$$A_SEL_POS,                                 ! Select position
;  150          0720  2          EDT$$G_SCR_REBUILD,                             ! 1 = don't touch the screen data base
;  151          0721  2          EDT$$L_WK_INSCNT : LN_BLOCK;                    ! Number of records inserted during this insert sequence
;  152          0722  2
;  153          0723  2      LOCAL
;  154          0724  2          SAVE_LIN : LN_BLOCK,
;  155          0725  2          SAVE_SELPOS,
;  156          0726  2          SIZE,
;  157          0727  2          OLD_LEN,                                        ! Length of the old line
;  158          0728  2          SOURCE,
;  159          0729  2          REMAINING,
;  160          0730  2          SAVE_REBUILD;
;  161          0731  2
;  162          0732  2      !+
;  163          0733  2      ! Check for a replacement which does not change the length of the
;  164          0734  2      ! line, and leave the work-file block structure unaltered.  This
;  165          0735  2      ! is not done only for speed; EDT will break if it is removed.
;  166          0736  2      !-
;  167          0737  2          OLD_LEN = .EDT$$A_WK_LN [LIN_LENGTH];
;  168          0738  2
;  169          0739  3          IF (.OLD_LEN EQL .LEN)
;  170          0740  2          THEN
;  171          0741  3              BEGIN
;  172          0742  3              EDT$$CPY_MEM (.LEN, .NEWLINE, EDT$$A_WK_LN [LIN_TEXT]);
;  173          0743  3              EDT$$G_WR_MODFD = 1;
;  174          0744  3              RETURN;
;  175          0745  3              END;
;  176          0746  2
;  177          0747  2      !+
;  178          0748  2      ! Check for a replacement which neither empties the block nor causes it
;  179          0749  2      ! to overflow.  Do such a replacement directly in the block, without
;  180          0750  2      ! calling the more general routines which delete and insert lines.
;  181          0751  2      !-
;  182          0752  2
;  183          0753  3          IF (((.EDT$$A_WK_BUK [WFB_END] - .OLD_LEN + .LEN) LSS WF_BUKT_SIZE) AND     !
;  184          0754  3              (.EDT$$A_CUR_BUF [TBCB_LINE_ADDR] NEQ .EDT$$A_WK_BUK [WFB_END]) AND     !
;  185          0755  3              (.EDT$$A_CUR_BUF [TBCB_LINE_ADDR] NEQ WFB_FIXED_SIZE))
;  186          0756  2          THEN
;  187          0757  3              BEGIN
;  188          0758  3      !+
;  189          0759  3      ! Update the character count for this buffer.
;  190          0760  3      !-
;  191          0761  3              EDT$$A_CUR_BUF [TBCB_CHAR_COUNT] = .EDT$$A_CUR_BUF [TBCB_CHAR_COUNT] - .OLD_LEN + .LEN;
;  192          0762  3      !+
;  193          0763  3      ! Make room in the block for the line.  This may require either increasing or decreasing
;  194          0764  3      ! the amount of space now available.
;  195          0765  3      !-
;  196          0766  3              SIZE = .OLD_LEN + LIN_FIXED_SIZE + 1;
;  197          0767  3              SOURCE = CH$PLUS (.EDT$$A_WK_LN, .SIZE);
;  198          0768  3              REMAINING = .EDT$$A_WK_BUK [WFB_END] - .EDT$$A_CUR_BUF [TBCB_LINE_ADDR] - .SIZE;
;  199          0769  3              EDT$$A_WK_BUK [WFB_END] = .EDT$$A_WK_BUK [WFB_END] - .OLD_LEN + .LEN;
;  200          0770  3
;  201          0771  4              IF (.REMAINING NEQ 0)                       !
;  202          0772  3              THEN
;  203          0773  4                  EDT$$CPY_MEM (.REMAINING, .SOURCE, .EDT$$A_WK_LN + .LEN + LIN_FIXED_SIZE + 1);
;  204          0774  3
```

```
                EDT$$A_WK_LN [LIN_LENGTH] = .LEN;
                CH$WCHAR (.LEN, EDT$$CPY_MEM (.LEN, .NEWLINE, EDT$$A_WK_LN [LIN_TEXT]));
                EDT$$G_WK_MODFD = 1;
                RETURN;
                END;

        !+
        ! This is a complex case.  Delete the old line and insert the new one.
        !-
            MOVELINE (EDT$$A_WK_LN [LIN_NUM], SAVE_LIN);
            SAVE_SELPOS = .EDT$$A_SEL_POS;
            SAVE_REBUILD = .EDT$$G_SCR_REBUILD;
            EDT$$G_SCR_REBUILD = 1;
            EDT$$DEL_CURLN ();
            SUBLINE (NUMBER_ONE, EDT$$L_WK_INSCNT);
            EDT$$INS_LN (.NEWLINE, .LEN);
            EDT$$RD_PRVLN ();
            EDT$$G_SCR_REBUILD = .SAVE_REBUILD;
            EDT$$A_SEL_POS = .SAVE_SELPOS;
            MOVELINE (SAVE_LIN, EDT$$A_WK_LN [LIN_NUM]);
            RETURN;
            END;                                            ! of routine EDT$$RPL_LN

                                                    .TITLE  EDT$WFREPLIN EDT$WFREPLIN - replace the current
                                                                    line
                                                    .IDENT  \V04-000\

                                                    .EXTRN  EDT$$DEL_CURLN, EDT$$INS_LN
                                                    .EXTRN  EDT$$RD_PRVLN, EDT$$A_WK_LN
                                                    .EXTRN  EDT$$G_WK_MODFD
                                                    .EXTRN  EDT$$L_LNO0, EDT$$A_CUR_BUF
                                                    .EXTRN  EDT$$A_WK_BUK, EDT$$A_SEL_POS
                                                    .EXTRN  EDT$$G_SCR_REBUILD
                                                    .EXTRN  EDT$$L_WK_INSCNT

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

                                 0FFC 00000         .ENTRY  EDT$$RPL_LN, Save R2,R3,R4,R5,R6,R7,R8,R9,- ; 0663
                                                            R10,R11
              5B 00000000G  00  9E 00002            MOVAB   EDT$$G_SCR_REBUILD, R11
              5A 00000000G  00  9E 00009            MOVAB   EDT$$A_CUR_BUF, R10
              59 00000000G  00  9E 00010            MOVAB   FIRST_WORD, R9
              5E            08  C2 00017            SUBL2   #8, SP
              57 00000000G  00  D0 0001A            MOVL    EDT$$A_WK_LN, R7                           ; 0737
              56            67  9A 00021            MOVZBL  (R7), OLD_LEN
              58      08    AC  D0 00024            MOVL    LEN, R8                                    ; 0739
              58            56  D1 00028            CMPL    OLD_LEN, R8
                            08  12 0002B            BNEQ    1$
  07   A7     04  BC            58  28 0002D        MOVC3   R8, @NEWLINE, 7(R7)                        ; 0742
                            61  11 00033            BRB     3$                                         ; 0743
              52 00000000G  00  D0 00035 1$:        MOVL    EDT$$A_WK_BUK, R2                          ; 0753
       53     04  A2            56  C3 0003C        SUBL3   OLD_LEN, 4(R2), R3
              53            58  C0 00041            ADDL2   R8, R3
        00000200  8F            53  D1 00044        CMPL    R3, #512
                            51  18 0004B            BGEQ    4$
              50            6A  D0 0004D            MOVL    EDT$$A_CUR_BUF, R0                         ; 0754
```

```
                04    A2            60  D1 00050        CMPL    (R0), 4(R2)                                   ;
                                    48  13 00054        BEQL    4$                                            ;
                      50            6A  D0 00056        MOVL    EDT$$A_CUR_BUF, R0                            ; 0755
                      08            60  D1 00059        CMPL    (R0), #8                                      ;
                                    40  13 0005C        BEQL    4$                                            ;
                      51            6A  D0 0005E        MOVL    EDT$$A_CUR_BUF, R1                            ; 0761
          50    1E    A1            56  C3 00061        SUBL3   OLD_LEN, 30(R1), R0                           ;
    1E    A1          50            58  C1 00066        ADDL3   R8, R0, 30(R1)                                ;
                      50        08  A6  9E 0006B        MOVAB   8(R6), SIZE                                   ; 0766
          54          57            50  C1 0006F        ADDL3   SIZE, R7, SOURCE                              ; 0767
          51    04    A2            61  C3 00073        SUBL3   (R1), 4(R2), R1                               ; 0768
          50          51            50  C3 00078        SUBL3   SIZE, R1, REMAINING                           ;
                04    A2            53  D0 0007C        MOVL    R3, 4(R2)                                     ; 0769
                                    50  D5 00080        TSTL    REMAINING                                     ; 0771
                                    06  13 00082        BEQL    2$                                            ;
    08 A847           64            50  28 00084        MOVC3   REMAINING, (SOURCE), 8(R8)[R7]                ; 0773
                      67            58  90 0008A 2$:    MOVB    R8, (R7)                                      ; 0775
    07    A7    04    BC            58  28 0008D        MOVC3   R8, @NEWLINE, 7(R7)                           ; 0776
                      63            58  90 00093        MOVB    R8, (R3)                                      ;
           00000000G  00            01  D0 00096 3$:    MOVL    #1, EDT$$G_WK_MODFD                           ; 0777
                                    04  0009D           RET                                                   ; 0776
          6E    01    A7            06  28 0009E 4$:    MOVC3   #6, 1(R7), SAVE_LIN                           ; 0784
                      53 00000000G  00  D0 000A3        MOVL    EDT$$A_SEL_POS, SAVE_SELPOS                   ; 0785
                      52            6B  D0 000AA        MOVL    EDT$$G_SCR_REBUILD, SAVE_REBUILD              ; 0786
                      6B            01  D0 000AD        MOVL    #1, EDT$$G_SCR_REBUILD                        ; 0787
           00000000G  00            00  FB 000B0        CALLS   #0, EDT$$DEL_CURLN                            ; 0788
                      50            69  D0 000B7        MOVL    FIRST_WORD, SAVE                              ; 0789
                                    69  D7 000BA        DECL    FIRST_WORD                                    ;
                      50            69  D1 000BC        CMPL    FIRST_WORD, SAVE                              ;
                                    03  1B 000BF        BLEQU   5$                                            ;
                                04  A9  B7 000C1        DECW    NEXT_WORD                                     ;
                                    58  DD 000C4 5$:    PUSHL   R8                                            ; 0790
                                04  AC  DD 000C6        PUSHL   NEWLINE                                       ;
           00000000G  00            02  FB 000C9        CALLS   #2, EDT$$INS_LN                               ;
           00000000G  00            00  FB 000D0        CALLS   #0, EDT$$RD_PRVLN                             ; 0791
                      6B            52  D0 000D7        MOVL    SAVE_REBUILD, EDT$$G_SCR_REBUILD              ; 0792
           00000000G  00            53  D0 000DA        MOVL    SAVE_SELPOS, EDT$$A_SEL_POS                   ; 0793
                      50 00000000G  00  D0 000E1        MOVL    EDT$$A_WK_LN, R0                              ; 0794
    01    A0          6E            06  28 000E8        MOVC3   #6, SAVE_LIN, 1(R0)                           ;
                                    04  000ED           RET                                                   ; 0796

; Routine Size:  238 bytes,    Routine Base:  _EDT$CODE + 0000


;  227          0797   1
;  228          0798   1 !<BLF/PAGE>
```

```
;  230          0799  1 END                                                  ! of module EDT$WFREPLIN
;  231          0800  1
;  232          0801  0 ELUDOM
```

```
;                                       PSECT SUMMARY
;
;       Name                          Bytes                    Attributes
;
;    _EDT$CODE                              238  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        48        12            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$:WFREPLIN/OBJ=OBJ$:WFREPLIN MSRC$:WFREPLIN.BLI/UPDATE=(ENH$:WFRE
;       PLIN)

; Size:           238 code + 0 data bytes
; Run Time:          00:16.3
; Elapsed Time:      00:20.0
; Lines/CPU Min:       2955
; Lexemes/CPU-Min: 11904
; Memory Used:   121 pages
; Compilation Complete
```

VMSMSG LIS

WFCOPLIN LIS

USSTRING LIS

WFSCOPY LIS

WFDELLIN LIS

WFGETBKT LIS

WFOPNBUF LIS

WFREABCK LIS

WFREAFWD LIS

WFSTRING LIS

WFAPPBKT LIS

UGBUFFER 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