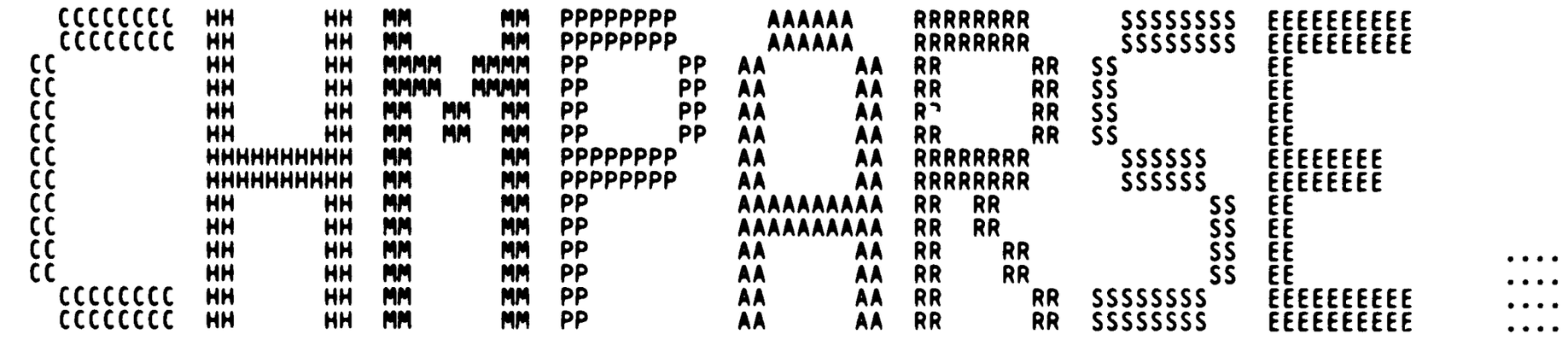
```
EEEEEEEEEEEEEEE  DDDDDDDDDDD     TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEE  DDDDDDDDDDDD    TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEE  DDDDDDDDDDDD    TTTTTTTTTTTTTTT
EEE              DDD         DDD       TTT
EEE              DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEE              DDD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


CCCCCCCC HH HH MM MM PPPPPPPP AAAAAA RRRRRRRR SSSSSSSS EEEEEEEEEE
CCCCCCCC HH HH MM MM PPPPPPPP AAAAAA RRRRRRRR SSSSSSSS EEEEEEEEEE
CC HH HH MMMM MMMM PP PP AA AA RR RR SS EE
CC HH HH MMMM MMMM PP PP AA AA RR RR SS EE
CC HH HH MM MM MM PP PP AA AA RR RR SS EE
CC HH HH MM MM MM PP PP AA AA RR RR SS EE
CC HHHHHHHHHH MM MM PPPPPPPP AA AA RRRRRRRR SSSSSS EEEEEEEE
CC HHHHHHHHHH MM MM PPPPPPPP AA AA RRRRRRRR SSSSSS EEEEEEEE
CC HH HH MM MM PP AAAAAAAAAA RR RR SS EE
CC HH HH MM MM PP AAAAAAAAAA RR RR SS EE
CC HH HH MM MM PP AA AA RR RR SS EE
CC HH HH MM MM PP AA AA RR RR SS EE
CCCCCCCC HH HH MM MM PP AA AA RR RR SSSSSSSS EEEEEEEEEE
CCCCCCCC HH HH MM MM PP AA AA RR RR SSSSSSSS EEEEEEEEEE
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$CHMPARSE - change mode parse and execute'
;    2          0002  0 MODULE EDT$CHMPARSE (                          ! Change mode parse and execute
;    3          0003  0                     IDENT = 'V04-000'                  ! File: CHMPARSE.BLI Edit: JBS1023
;    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 !*                                                                        *
;   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 parses and executes a change mode command string.
;   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: Unknown                                ; R
;   41          0041  1 !
;   42          0042  1 ! MODIFIED BY:
;   43          0043  1 !
;   44          0044  1 ! 1-001 - Original.  DJS 04-Feb-1981.  This module was created by          ;
;   45          0045  1 !       extracting the routine EDT$$CHM_PAREXE  from module CHANGE.BLI.
;   46          0046  1 ! 1-002 - Regularize headers.  JBS 03-Mar-1981
;   47          0047  1 ! 1-003 - Use new message codes.  JBS 04-Aug-1981
;   48          0048  1 ! 1-004 - Add the bell verb. STS 11-Aug-1981
;   49          0049  1 ! 1-005 - Add the date verb. STS 31-Aug-1981
;   50          0050  1 ! 1-006 - Add the setting of default verb. STS 21-Sep-1981
;   51          0051  1 ! 1-007 - Add desel and tgsel. STS 23-Sep-1981
;   52          0052  1 ! 1-008 - Add ssel verb. STS 24-Sep-1981
;   53          0053  1 ! 1-009 - Add a return value for journal file ended.  JBS 02-Oct-1981
;   54          0054  1 ! 1-010 - Revise direction setting for tadj. SMB 22-Oct-1981
;   55          0055  1 ! 1-011 - Give an error message on an invalid repeat count.  JBS 10-Mar-1982
;   56          0056  1 ! 1-012 - Add NOOVERLAY symbol.  JBS 04-Apr-1982
;   57          0057  1 ! 1-013 - Set a flag if control C actually aborts something.  JBS 24-May-1982
```

```
;    58          0058  1 ! 1-014 - Change alphabetic test.  JBS 19-Jul-1982
;    59          0059  1 ! 1-015 - Add the xlate verb. STS 13-Aug-1982
;    60          0060  1 ! 1-016 - Add the CLSS verb. STS 26-Aug-1982
;    61          0061  1 ! 1-017 - Change to using an alphabetically ordered table. STS 21-Sep-1982
;    62          0062  1 ! 1-018 - Move the table into the keyword routine, to reduce the program size
;    63          0063  1 !         on the PDP-11.  JBS 29-Sep-1982
;    64          0064  1 ! 1-019 - Allow lower case commands.  JBS 01-Oct-1982
;    65          0065  1 ! 1-020 - Check the length of the command. STS 08-Oct-1982
;    66          0066  1 ! 1-021 - Add conditional for VT220 support.  JBS 11-Feb-1983
;    67          0067  1 ! 1-022 - Add conditional for WPS support.  JBS 13-Feb-1983
;    68          0068  1 ! 1-023 - Correct a typo.  JBS 22-Feb-1983
;    69          0069  1 !--
;    70          0070  1
```

```
;    72          0071  1 %SBTTL 'Declarations'
;    73          0072  1 !
;    74          0073  1 ! TABLE OF CONTENTS:
;    75          0074  1 !
;    76          0075  1
;    77          0076  1 REQUIRE 'EDTSRC:TRAROUNAM';
;    78          0515  1
;    79          0516  1 FORWARD ROUTINE
;    80          0517  1     EDT$$CHM_PAREXE;                        ! Parse and execute a change mode command string
;    81          0518  1
;    82          0519  1 !
;    83          0520  1 ! INCLUDE FILES:
;    84          0521  1 !
;    85          0522  1
;    86          0523  1 REQUIRE 'EDTSRC:EDTREQ';
;    87          0658  1
;    88          0659  1 LIBRARY 'EDTSRC:SUPPORTS';
;    89          0660  1
;    90          0661  1 !
;    91          0662  1 ! MACROS:
;    92          0663  1 !
;    93          0664  1 !       NONE
;    94          0665  1 !
;    95          0666  1 ! EQUATED SYMBOLS:
;    96          0667  1 !
;    97          0668  1
;    98          0669  1 GLOBAL BIND
;    99          0670  1     ROUTINE
;   100          0671  1     EDT$$CHM_PAREXE_NOOVERLAY_REF = EDT$$CHM_PAREXE;    ! Alt ref point
;   101          0672  1
;   102          0673  1 !
;   103          0674  1 ! OWN STORAGE:
;   104          0675  1 !
;   105          0676  1 !       NONE
;   106          0677  1 !
;   107          0678  1 ! EXTERNAL REFERENCES:
;   108          0679  1 !
;   109          0680  1 !       In the routine
```

```
;  111          0681  1 %SBTTL 'EDT$$CHM_PAREXE  - change mode parse and execute'
;  112          0682  1
;  113          0683  1 GLOBAL ROUTINE EDT$$CHM_PAREXE (                    ! Change mode parse and execute
;  114          0684  1     EXECUTE                                          ! 1 = execute
;  115          0685  1     ) =
;  116          0686  1
;  117          0687  1 !++
;  118          0688  1 ! FUNCTIONAL DESCRIPTION:
;  119          0689  1 !
;  120          0690  1 !       This routine parses and executes a change mode command string.
;  121          0691  1 !
;  122          0692  1 ! FORMAL PARAMETERS:
;  123          0693  1 !
;  124          0694  1 !       EXECUTE - 1 if we should execute the command, 0 to parse only.
;  125          0695  1 !
;  126          0696  1 ! IMPLICIT INPUTS:
;  127          0697  1 !
;  128          0698  1 !       EDT$$G_DIR_MOD
;  129          0699  1 !       EDT$$A_CMD_END
;  130          0700  1 !       EDT$$G_EXI
;  131          0701  1 !       EDT$$A_CMD_BUF
;  132          0702  1 !       EDT$$G_DFLT_VERB
;  133          0703  1 !
;  134          0704  1 ! IMPLICIT OUTPUTS:
;  135          0705  1 !
;  136          0706  1 !       EDT$$G_DIR
;  137          0707  1 !       EDT$$A_ALT_BUF
;  138          0708  1 !       EDT$$G_TADJ
;  139          0709  1 !       EDT$$G_CC_DONE
;  140          0710  1 !
;  141          0711  1 ! RETURNED VALUE:
;  142          0712  1 !
;  143          0713  1 !       0 - Command failed or control C
;  144          0714  1 !       1 - Command succeeded
;  145          0715  1 !       2 - Journal file ended
;  146          0716  1 !
;  147          0717  1 ! SIDE EFFECTS:
;  148          0718  1 !
;  149          0719  1 !       Many
;  150          0720  1 !
;  151          0721  1 !--
;  152          0722  1
;  153          0723  2     BEGIN
;  154          0724  2
;  155          0725  2     EXTERNAL ROUTINE
;  156          0726  2         EDT$$EXE_CHMCMD2,                            ! Execute the verbs which take an entity specification
;  157          0727  2         EDT$$EXE_CHMCMD1,                ! Execute the verbs which do not take an entity specification
;  158          0728  2         EDT$$MSG_BELL : NOVALUE,                     ! Output a message to the terminal with a warning bell
;  159          0729  2         EDT$$CHK_CC,                                 ! Check to see if a CTRL/C has been typed
;  160          0730  2         EDT$$GET_BUF : NOVALUE,          ! Look for a buffer spec for the cut, paste, and append commands
;  161          0731  2         EDT$$CHK_CNT,                                ! Look for a repeat/entity count
;  162          0732  2         EDT$$CHK_DIR,                                ! Determine the current direction
;  163          0733  2         EDT$$SCAN_SEASTR : NOVALUE,                  ! Scan over the search string when used as an entity
;  164          0734  2         EDT$$FND_SUBSTR : NOVALUE,       ! Isolate the search and replace strings for the SUBSTITUTE command
;  165          0735  2         EDT$$SCAN_INSSTR : NOVALUE,                  ! Scan over the string of characters to be inserted
;  166          0736  2         EDT$$KEY_WORD,                               ! Compare the command buffer contents to a table of keywords
;  167          0737  2         EDT$$PARENT,                                 ! Collect and execute a parenthesized string of commands
```

```
;  168          0738  2          EDT$$CNV_UPC;                                   ! Convert string to upper case
;  169          0739  2
;  170          0740  2      EXTERNAL
;  171          0741  2          EDT$$G_SEA_LEN,                                 ! length of string
;  172          0742  2          EDT$$G_DIR,                                     ! The current direction.
;  173          0743  2          EDT$$G_DIR_MOD,                                 ! The directional mode.
;  174          0744  2          EDT$$A_CMD_END,                                 ! End of command pointer
;  175          0745  2          EDT$$G_EXI,                                     ! Change mode has been exited.
;  176          0746  2          EDT$$A_CMD_BUF,                                 ! Command string pointer
;  177          0747  2          EDT$$A_ALT_BUF : REF TBCB_BLOCK,                ! Alternate buffer used for cut/paste.
;  178          0748  2          EDT$$G_TADJ,                                    ! Count for tabs adjust.
;  179          0749  2
;  180        L 0750  2 %IF SUPPORT_WPS
;  181          0751  2 %THEN
;  182          0752  2          EDT$$G_DFLT_VERB,                               ! Default verb
;  183          0753  2 %FI
;  184          0754  2
;  185        L 0755  2 %IF SUPPORT_VT220
;  186          0756  2 %THEN
;  187          0757  2          EDT$$B_CHAR_INFO : BLOCKVECTOR [256, 1, BYTE],  ! Information about characters
;  188          0758  2 %FI
;  189          0759  2
;  190          0760  2          EDT$$G_CC_DONE;                                 ! Set to 1 if control C actually aborted something
;  191          0761  2
;  192          0762  2      MESSAGES ((INVENT, INVSUBCOM, NUMVALILL));
;  193          0763  2
;  194          0764  2      LOCAL
;  195          0765  2          REPT_COUNT,
;  196          0766  2          EXPLICIT_REPEAT,
;  197          0767  2          VERB,
;  198          0768  2          ENTITY,
;  199          0769  2          ENTITY_COUNT,
;  200          0770  2          EXPLICIT_ENTITY_COUNT,
;  201          0771  2          OPERAND,
;  202          0772  2          DIR_SAME,
;  203          0773  2          TADJ_DIR,
;  204          0774  2          SUCCEED;
;  205          0775  2
;  206          0776  2 !+
;  207          0777  2 ! Loop until we hit the end of the command buffer or a closing parenthesis.
;  208          0778  2 !-
;  209          0779  2
;  210          0780  2      WHILE CH$PTR_GTR (.EDT$$A_CMD_END, .EDT$$A_CMD_BUF) DO
;  211          0781  3          BEGIN
;  212          0782  3
;  213          0783  3          IF EDT$$CHK_CC ()
;  214          0784  3          THEN
;  215          0785  4              BEGIN
;  216          0786  4              EDT$$G_CC_DONE = 1;
;  217          0787  4              RETURN (0);
;  218          0788  3              END;
;  219          0789  3
;  220          0790  3 !+
;  221          0791  3 ! Skip blanks at beginning of command.
;  222          0792  3 !-
;  223          0793  3
;  224          0794  3          WHILE (CH$RCHAR (.EDT$$A_CMD_BUF) EQL %C' ') DO
```

```
;  225          0795  3              EDT$$A_CMD_BUF = CH$PLUS (.EDT$$A_CMD_BUF, 1);
;  226          0796  3
;  227          0797  3      !+
;  228          0798  3      ! Look for closing paren.
;  229          0799  3      !-
;  230          0800  3
;  231          0801  3          IF (CH$RCHAR (.EDT$$A_CMD_BUF) EQL %C')') THEN EXITLOOP;
;  232          0802  3
;  233          0803  3      !+
;  234          0804  3      ! Set default direction, zero the alternate buffer and zero the
;  235          0805  3      ! direction change indicator.
;  236          0806  3      !-
;  237          0807  3          EDT$$G_DIR = .EDT$$G_DIR_MOD;
;  238          0808  3          EDT$$A_ALT_BUF = 0;
;  239          0809  3      !+
;  240          0810  3      ! Check for explicit direction specified.
;  241          0811  3      !-
;  242          0812  3          DIR_SAME = EDT$$CHK_DIR ();
;  243          0813  3      !+
;  244          0814  3      ! Look for a count, and remember whether one was seen.
;  245          0815  3      ! Give an error message and bail out if the count is invalid.
;  246          0816  3      ! (An invalid count means a count greater than 32767.)
;  247          0817  3      !-
;  248          0818  3          REPT_COUNT = 0;
;  249          0819  3          EXPLICIT_REPEAT = EDT$$CHK_CNT (REPT_COUNT);
;  250          0820  3
;  251          0821  4          IF (.EXPLICIT_REPEAT EQL 2)
;  252          0822  3          THEN
;  253          0823  4              BEGIN
;  254          0824  4              EDT$$MSG_BELL (EDT$_NUMVALILL);
;  255          0825  4              RETURN (0);
;  256          0826  3              END;
;  257          0827  3
;  258          0828  3      !+
;  259          0829  3      ! Look for the loop.
;  260          0830  3      !-
;  261          0831  3
;  262          0832  4          IF (CH$RCHAR (.EDT$$A_CMD_BUF) EQL %C'(')
;  263          0833  3          THEN
;  264          0834  4              BEGIN
;  265          0835  4
;  266          0836  4              IF ((.REPT_COUNT EQL 0) AND (.EXPLICIT_REPEAT EQL 0)) THEN REPT_COUNT = 1;
;  267          0837  4
;  268          0838  4              SUCCEED = EDT$$PARENT (.REPT_COUNT, .EXECUTE);
;  269          0839  4
;  270          0840  4              IF (.SUCCEED NEQ 1) THEN RETURN (.SUCCEED);
;  271          0841  4
;  272          0842  4              END
;  273          0843  3          ELSE
;  274          0844  4              BEGIN
;  275          0845  4      !+
;  276          0846  4      ! And now, find the verb of the command.
;  277          0847  4      !-
;  278          0848  4              EDT$$KEY_WORD (1, VERB);
;  279          0849  4
;  280        L 0850  4      %IF SUPPORT_WPS
;  281          0851  4      %THEN
```

```
;  282          0852  4
;  283          0853  4              IF (.VERB EQL 0) THEN VERB = .EDT$$G_DFLT_VERB;
;  284          0854  4
;  285          0855  4 %FI
;  286          0856  4
;  287          0857  4 !+
;  288          0858  4 ! If the command is tabs adjust, then the [+!-] preceding the repeat count is
;  289          0859  4 ! used to determine adjustment of the entities right or left.  The global
;  290          0860  4 ! direction (ADV or BACK) is not affected by this tab adjust direction.
;  291          0861  4 !-
;  292          0862  4
;  293          0863  5              IF (.VERB EQL VERB_K_TADJ)
;  294          0864  4              THEN
;  295          0865  5                  BEGIN
;  296          0866  5                  TADJ_DIR = 1;
;  297          0867  5 !+
;  298          0868  5 ! If the adjustment direction has explicitly been set by '-', then tab
;  299          0869  5 ! adjust to the left.
;  300          0870  5 !-
;  301          0871  5
;  302          0872  5                  IF ((.EDT$$G_DIR EQL DIR_BACKWARD) AND (.DIR_SAME EQL 0)) THEN TADJ_DIR = -1;
;  303          0873  5
;  304          0874  5                  EDT$$G_DIR = .EDT$$G_DIR_MOD;
;  305          0875  4                  END;
;  306          0876  4
;  307          0877  4 !+
;  308          0878  4 ! This hack prevents the entities SEN and SR from being assumed
;  309          0879  4 ! to be a SUBSTITUTE command.
;  310          0880  4 !-
;  311          0881  4
;  312          0882  5              IF (.VERB EQL VERB_K_SUBS)
;  313          0883  4              THEN
;  314          0884  4
;  315        L 0885  4 %IF SUPPORT_VT220
;  316          0886  4 %THEN
;  317          0887  4
;  318          0888  5                  IF (.EDT$$B_CHAR_INFO [CH$RCHAR (.EDT$$A_CMD_BUF), 0, 0, 2, 0] NEQ 0)
;  319          0889  4                  THEN
;  320        U 0890  4 %ELSE
;  321        U 0891  4
;  322        U 0892  4                      IF ((((CH$RCHAR (.EDT$$A_CMD_BUF) GEQ %C'A') AND (CH$RCHAR (.EDT$$A_CMD_BUF) LEQ %C'Z'))
;  323        U 0893  4                          OR ((CH$RCHAR (.EDT$$A_CMD_BUF) GEQ %C'a') AND (CH$RCHAR (.EDT$$A_CMD_BUF) LEQ %C'z'
;  324        U 0894  4                          ))
;  325        U 0895  4                      THEN
;  326          0896  4 %FI
;  327          0897  4
;  328          0898  5                          BEGIN
;  329          0899  5
;  330        L 0900  5 %IF SUPPORT_WPS
;  331          0901  5 %THEN
;  332          0902  5                          VERB = .EDT$$G_DFLT_VERB;
;  333        U 0903  5 %ELSE
;  334        U 0904  5                          VERB = 0;
;  335          0905  5 %FI
;  336          0906  5
;  337          0907  5                          EDT$$A_CMD_BUF = CH$PLUS (.EDT$$A_CMD_BUF, -1);
;  338          0908  4                          END;
```

```
;  339          0909  4
;  340          0910  4 !+
;  341          0911  4 ! Check to see if it is truly a verb which uses an entity specification.
;  342          0912  4 !-
;  343          0913  4
;  344          0914  5             IF (.VERB LSS VERB_K_SEL)
;  345          0915  4             THEN
;  346          0916  5                 BEGIN
;  347          0917  5 !+
;  348          0918  5 ! And once again, look for the explicit direction.
;  349          0919  5 !-
;  350          0920  5                 DIR_SAME = EDT$$CHK_DIR ();
;  351          0921  5 !+
;  352          0922  5 ! Set the entity count to the default of 1, then see if there
;  353          0923  5 ! was a count specified.
;  354          0924  5 !-
;  355          0925  5                 ENTITY_COUNT = 1;
;  356          0926  5                 EXPLICIT_ENTITY_COUNT = EDT$$CHK_CNT (ENTITY_COUNT);
;  357          0927  5
;  358          0928  6                 IF (.EXPLICIT_ENTITY_COUNT EQL 2)
;  359          0929  5                 THEN
;  360          0930  6                     BEGIN
;  361          0931  6                     EDT$$MSG_BELL (EDT$_NUMVALILL);
;  362          0932  6                     RETURN (0);
;  363          0933  5                     END;
;  364          0934  5
;  365          0935  5 !+
;  366          0936  5 ! And try for a direction once again.
;  367          0937  5 !-
;  368          0938  5                 DIR_SAME = EDT$$CHK_DIR ();
;  369          0939  5 !+
;  370          0940  5 ! Now get the entity.
;  371          0941  5 !-
;  372          0942  5
;  373          0943  6                 IF CH$PTR_GTR (.EDT$$A_CMD_END, .EDT$$A_CMD_BUF)
;  374          0944  5                 THEN
;  375          0945  5
;  376          0946  5                     IF (CH$RCHAR (.EDT$$A_CMD_BUF) EQL '"') OR  !
;  377          0947  5                         (CH$RCHAR (.EDT$$A_CMD_BUF) EQL '''') OR        !
;  378          0948  6                         (CH$RCHAR (.EDT$$A_CMD_BUF) EQL 0)
;  379          0949  5                     THEN
;  380          0950  6                         BEGIN
;  381          0951  6                         ENTITY = ENT_K_QUOTE;
;  382          0952  6                         EDT$$A_CMD_BUF = .EDT$$A_CMD_BUF + 1;
;  383          0953  6                         END
;  384          0954  5                     ELSE
;  385          0955  5                         EDT$$KEY_WORD (2, ENTITY)
;  386          0956  5
;  387          0957  5                 ELSE
;  388          0958  5                     ENTITY = 0;
;  389          0959  5
;  390          0960  5 !+
;  391          0961  5 ! If entity was not found, something is wrong.
;  392          0962  5 !-
;  393          0963  5
;  394          0964  6                 IF (.ENTITY EQL 0)
;  395          0965  5                 THEN
```

```
;  396          0966  5 !+
;  397          0967  5 ! If verb was defaulted to move, assume it was wrong, otherwise
;  398          0968  5 ! it must be the entity which is wrong.
;  399          0969  5 !-
;  400          0970  6                     BEGIN
;  401          0971  6
;  402          0972  6                     IF (.VERB NEQ 0) THEN EDT$$MSG_BELL (EDT$_INVENT) ELSE EDT$$MSG_BELL (EDT$_INVSUBCOM);
;  403          0973  6
;  404          0974  6                     RETURN (0);
;  405          0975  5                     END;
;  406          0976  5
;  407          0977  5 !+
;  408          0978  5 ! If the command is tabs adjust, then process it specially.
;  409          0979  5 ! The repeat count and (+ or -) directional indicator are  used
;  410          0980  5 ! to determine the adjustment and the entity count and direction
;  411          0981  5 ! to select the text.
;  412          0982  5 !-
;  413          0983  5
;  414          0984  6                 IF (.VERB EQL VERB_K_TADJ)
;  415          0985  5                 THEN
;  416          0986  6                     BEGIN
;  417          0987  6
;  418          0988  6                     IF (.EXPLICIT_REPEAT EQL 0) THEN REPT_COUNT = 1;
;  419          0989  6
;  420          0990  6 !+
;  421          0991  6 ! TADJ_DIR =  1 to adjust right
;  422          0992  6 !          = -1 to adjust left
;  423          0993  6 !-
;  424          0994  6                     EDT$$G_TADJ = .REPT_COUNT*.TADJ_DIR;
;  425          0995  6                     EXPLICIT_REPEAT = 0;
;  426          0996  5                     END;
;  427          0997  5
;  428          0998  5 !+
;  429          0999  5 ! If there was a repeat count as well as an entity count, multiply
;  430          1000  5 ! them out to get the actual number of entities, and only execute
;  431          1001  5 ! the command once.
;  432          1002  5 !-
;  433          1003  5
;  434          1004  5                 IF .EXPLICIT_REPEAT THEN ENTITY_COUNT = .REPT_COUNT*.ENTITY_COUNT;
;  435          1005  5
;  436          1006  5                 REPT_COUNT = 1;
;  437          1007  5 !+
;  438          1008  5 ! If entity is quoted, get the string.
;  439          1009  5 !-
;  440          1010  5
;  441          1011  5                 IF (.ENTITY EQL ENT_K_QUOTE) THEN EDT$$SCAN_SEASTR ();
;  442          1012  5
;  443          1013  5 !+
;  444          1014  5 ! Get the buffer spec if command is cut or append.
;  445          1015  5 !-
;  446          1016  5
;  447          1017  5                 IF (.VERB GEQ VERB_K_CUT) THEN EDT$$GET_BUF ();
;  448          1018  5
;  449          1019  5 !+
;  450          1020  5 ! And execute it.
;  451          1021  5 !-
;  452          1022  5
```

```
;  453          1023  5                  IF .EXECUTE
;  454          1024  5                  THEN
;  455          1025  6                      BEGIN
;  456          1026  6                      SUCCEED = EDT$$EXE_CHMCMD2 (.ENTITY, .ENTITY_COUNT, .VERB);
;  457          1027  6
;  458          1028  6                      IF (.SUCCEED NEQ 1) THEN RETURN (.SUCCEED);
;  459          1029  6
;  460          1030  5                      END;
;  461          1031  5
;  462          1032  5                  END
;  463          1033  4              ELSE
;  464          1034  5                  BEGIN
;  465          1035  5  !+
;  466          1036  5  ! Handle the parsing of the 'funny' verbs, i.e. those which have
;  467          1037  5  ! variable length strings as a part.
;  468          1038  5  !-
;  469          1039  5                  OPERAND = .EDT$$A_CMD_BUF;
;  470          1040  5
;  471          1041  5                  CASE .VERB FROM VERB_K_SUBS TO VERB_K_CC OF
;  472          1042  5                      SET
;  473          1043  5
;  474          1044  5                      [VERB_K_INSERT] :
;  475          1045  5                          EDT$$SCAN_INSSTR ();
;  476          1046  5
;  477          1047  5                      [VERB_K_XLATE] :
;  478          1048  5
;  479          1049  6                          IF CH$PTR_NEQ (.EDT$$A_CMD_BUF, .EDT$$A_CMD_END)
;  480          1050  5                          THEN
;  481          1051  5                              EDT$$SCAN_INSSTR ()
;  482          1052  5                          ELSE
;  483          1053  5                              EDT$$G_SEA_LEN = 0;
;  484          1054  5
;  485          1055  5                      [VERB_K_SUBS] :
;  486          1056  5                          EDT$$FND_SUBSTR ();
;  487          1057  5
;  488          1058  5                      [VERB_K_CC] :
;  489          1059  6                          BEGIN
;  490          1060  6                          EDT$$CNV_UPC (.EDT$$A_CMD_BUF, 1);
;  491          1061  6                          EDT$$A_CMD_BUF = CH$PLUS (.EDT$$A_CMD_BUF, 1);
;  492          1062  5                          END;
;  493          1063  5
;  494          1064  5                      [VERB_K_PASTE] :
;  495          1065  5                          EDT$$GET_BUF ();
;  496          1066  5
;  497          1067  5                      [OUTRANGE] :
;  498          1068  5                          0;
;  499          1069  5                      TES;
;  500          1070  5
;  501          1071  5  !+
;  502          1072  5  ! Now, execute the command, and terminate the loop if it fails.
;  503          1073  5  !-
;  504          1074  5
;  505          1075  5                  IF .EXECUTE
;  506          1076  5                  THEN
;  507          1077  6                      BEGIN
;  508          1078  6                      SUCCEED = EDT$$EXE_CHMCMD1 (.VERB, .REPT_COUNT, .OPERAND, .EXPLICIT_REPEAT);
;  509          1079  6
```

```
;  510          1080  6                      IF (.SUCCEED NEQ 1) THEN RETURN (.SUCCEED);
;  511          1081  6
;  512          1082  5                      END;
;  513          1083  5
;  514          1084  4                  END;
;  515          1085  4
;  516          1086  3              END;
;  517          1087  3
;  518          1088  3          IF .EDT$$G_EXI THEN RETURN (1);
;  519          1089  3
;  520          1090  2          END;
;  521          1091  2
;  522          1092  2      RETURN (1);
;  523          1093  1      END;                                    ! of routine EDT$$CHM_PAREXE


;

                                                                     .TITLE  EDT$CHMPARSE EDT$CHMPARSE - change mode parse a
                                                                                          nd execute
                                                                     .IDENT  \V04-000\

                                                                     .EXTRN  EDT$$EXE_CHMCMD2
                                                                     .EXTRN  EDT$$EXE_CHMCMD1
                                                                     .EXTRN  EDT$$MSG_BELL, EDT$$CHK_CC
                                                                     .EXTRN  EDT$$GET_BUF, EDT$$CHK_CNT
                                                                     .EXTRN  EDT$$CHK_DIR, EDT$$SCAN_SEASTR
                                                                     .EXTRN  EDT$$FND_SUBSTR
                                                                     .EXTRN  EDT$$SCAN_INSSTR
                                                                     .EXTRN  EDT$$KEY_WORD, EDT$$PARENT
                                                                     .EXTRN  EDT$$CNV_UPC, EDT$$G_SEA_LEN
                                                                     .EXTRN  EDT$$G_DIR, EDT$$G_DIR_MOD
                                                                     .EXTRN  EDT$$A_CMD_END, EDT$$G_EXI
                                                                     .EXTRN  EDT$$A_CMD_BUF, EDT$$A_ALT_BUF
                                                                     .EXTRN  EDT$$G_TADJ, EDT$$G_DFLT_VERB
                                                                     .EXTRN  EDT$$B_CHAR_INFO
                                                                     .EXTRN  EDT$$G_CC_DONE, EDT$_INVENT
                                                                     .EXTRN  EDT$_INVSUBCOM, EDT$_NUMVALILL

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

                                        0FFC 00000                   .ENTRY  EDT$$CHM_PAREXE, Save R2,R3,R4,R5,R6,R7,R8,-; 0683
                                                                             R9,R10,R11
                5B 00000000G   00   9E 00002                 MOVAB   EDT$$G_DIR, R11                                    ;
                5A 00000000G   00   9E 00009                 MOVAB   EDT$$A_CMD_BUF, R10                                ;
                5E                  10   C2 00010             SUBL2   #16, SP                                            ;
                6A 00000000G   00   D1 00013 1$:             CMPL    EDT$$A_CMD_END, EDT$$A_CMD_BUF                     ; 0780
                                    03   1A 0001A             BGTRU   3$                                                 ;
                                  0224   31 0001C 2$:         BRW     39$                                                ;
00000000G       00                  00   FB 0001F 3$:         CALLS   #0, EDT$$CHK_CC                                    ; 0783
                0A                  50   E9 00026             BLBC    R0, 4$                                             ;
00000000G       00                  01   D0 00029             MOVL    #1, EDT$$G_CC_DONE                                 ; 0786
                                  0214   31 00030             BRW     40$                                                ; 0787
                50                  6A   D0 00033 4$:         MOVL    EDT$$A_CMD_BUF, R0                                 ; 0794
                20                  60   91 00036             CMPB    (R0), #32                                          ;
                                    04   12 00039             BNEQ    5$                                                 ;
                                    6A   D6 0003B             INCL    EDT$$A_CMD_BUF                                     ; 0795
                                    F4   11 0003D             BRB     4$                                                 ;
                50                  6A   D0 0003F 5$:         MOVL    EDT$$A_CMD_BUF, R0                                 ; 0801
```

```
                                29              60  91 00042          CMPB    (R0), #41                                       ;
                                                D5  13 00045          BEQL    2$                                              ;
                                6B 00000000G    00  D0 00047          MOVL    EDT$$G_DIR_MOD, EDT$$G_DIR                      ; 0807
                                   00000000G    00  D4 0004E          CLRL    EDT$$A_ALT_BUF                                  ; 0808
                     00000000G  00              00  FB 00054          CALLS   #0, EDT$$CHK_DIR                                ; 0812
                                58              50  D0 00058          MOVL    R0, DIR_SAME
                                                6E  D4 0005E          CLRL    REPT_COUNT                                      ; 0818
                                                5E  DD 00060          PUSHL   SP                                              ; 0819
                     00000000G  00              01  FB 00062          CALLS   #1, EDT$$CHK_CNT
                                55              50  D0 00069          MOVL    R0, EXPLICIT_REPEAT
                                02              55  D1 0006C          CMPL    EXPLICIT_REPEAT, #2                             ; 0821
                                                03  12 0006F          BNEQ    6$
                                            00A3    31 00071          BRW     14$
                                50              6A  D0 00074 6$:      MOVL    EDT$$A_CMD_BUF, R0                              ; 0832
                                28              60  91 00077          CMPB    (R0), #40
                                                1B  12 0007A          BNEQ    8$
                                                6E  D5 0007C          TSTL    REPT_COUNT                                      ; 0836
                                                07  12 0007E          BNEQ    7$
                                                55  D5 00080          TSTL    EXPLICIT_REPEAT
                                                03  12 00082          BNEQ    7$
                                6E              01  D0 00084          MOVL    #1, REPT_COUNT
                                        04      AC  DD 00087 7$:      PUSHL   EXECUTE                                         ; 0838
                                        04      AE  DD 0008A          PUSHL   REPT_COUNT
                     00000000G  00              02  FB 0008D          CALLS   #2, EDT$$PARENT
                                            0196    31 00094          BRW     37$
                                        04      AE  9F 00097 8$:      PUSHAB  VERB                                            ; 0848
                                                01  DD 0009A          PUSHL   #1
                     00000000G  00              02  FB 0009C          CALLS   #2, EDT$$KEY_WORD
                                        04      AE  D5 000A3          TSTL    VERB                                            ; 0853
                                                08  12 000A6          BNEQ    9$
                           04   AE 00000000G    00  D0 000A8          MOVL    EDT$$G_DFLT_VERB, VERB
                                08         04   AE  D1 000B0 9$:      CMPL    VERB, #8                                        ; 0863
                                                15  12 000B4          BNEQ    11$
                                56              01  D0 000B6          MOVL    #1, TADJ_DIR                                    ; 0866
                                                6B  D5 000B9          TSTL    EDT$$G_DIR                                      ; 0872
                                                07  12 000BB          BNEQ    10$
                                                58  D5 000BD          TSTL    DIR_SAME
                                                03  12 000BF          BNEQ    10$
                                56              01  CE 000C1          MNEGL   #1, TADJ_DIR
                                6B 00000000G    00  D0 000C4 10$:     MOVL    EDT$$G_DIR_MOD, EDT$$G_DIR                      ; 0874
                                0C         04   AE  D1 000CB 11$:     CMPL    VERB, #12                                       ; 0882
                                                1A  12 000CF          BNEQ    12$
                                50              6A  D0 000D1          MOVL    EDT$$A_CMD_BUF, R0                              ; 0888
                                50              60  9A 000D4          MOVZBL  (R0), R0
                                03 00000000G00040   93 000D7          BITB    EDT$$B_CHAR_INFO[R0], #3
                                                0A  13 000DF          BEQL    12$
                           04   AE 00000000G    00  D0 000E1          MOVL    EDT$$G_DFLT_VERB, VERB                          ; 0902
                                                6A  D7 000E9          DECL    EDT$$A_CMD_BUF                                  ; 0907
                                53         04   AE  D0 000EB 12$:     MOVL    VERB, R3                                        ; 0914
                                0B              53  D1 000EF          CMPL    R3, #11
                                                03  19 000F2          BLSS    13$
                                            00D3    31 000F4          BRW     28$
                     00000000G  00              00  FB 000F7 13$:     CALLS   #0, EDT$$CHK_DIR                                ; 0920
                                58              50  D0 000FE          MOVL    R0, DIR_SAME
                           08   AE              01  D0 00101          MOVL    #1, ENTITY_COUNT                                ; 0925
                                        08      AE  9F 00105          PUSHAB  ENTITY_COUNT                                    ; 0926
                     00000000G  00              01  FB 00108          CALLS   #1, EDT$$CHK_CNT                                ;
```

```
                                59              50  D0 0010F          MOVL    R0, EXPLICIT_ENTITY_COUNT
                                02              59  D1 00112          CMPL    EXPLICIT_ENTITY_COUNT, #2                       ; 0928
                                                08  12 00115          BNEQ    15$
                                   00000000G    8F  DD 00117 14$:     PUSHL   #EDT$_NUMVALILL                                 ; 0931
                                                55  11 0011D          BRB     21$
                        00000000G   00          00  FB 0011F 15$:     CALLS   #0, EDT$$CHK_DIR                                ; 0938
                                58              50  D0 00126          MOVL    R0, DIR_SAME
                                50              6A  D0 00129          MOVL    EDT$$A_CMD_BUF, R0                              ; 0943
                                50 00000000G    00  D1 0012C          CMPL    EDT$$A_CMD_END, R0
                                                24  1B 00133          BLEQU   18$
                                22              60  91 00135          CMPB    (R0), #34                                       ; 0946
                                                09  13 00138          BEQL    16$
                                27              60  91 0013A          CMPB    (R0), #39                                       ; 0947
                                                04  13 0013D          BEQL    16$
                                                60  95 0013F          TSTB    (R0)                                            ; 0948
                                                08  12 00141          BNEQ    17$
                             0C     AE          29  D0 00143 16$:     MOVL    #41, ENTITY                                     ; 0951
                                                6A  D6 00147          INCL    EDT$$A_CMD_BUF                                  ; 0952
                                                11  11 00149          BRB     19$                                             ; 0946
                                        0C      AE  9F 0014B 17$:     PUSHAB  ENTITY                                          ; 0955
                                                02  DD 0014E          PUSHL   #2
                        00000000G   00          02  FB 00150          CALLS   #2, EDT$$KEY_WORD
                                                03  11 00157          BRB     19$                                             ; 0946
                                        0C      AE  D4 00159 18$:     CLRL    ENTITY                                          ; 0958
                                52      0C      AE  D0 0015C 19$:     MOVL    ENTITY, R2                                      ; 0964
                                                1C  12 00160          BNEQ    22$
                                                53  D5 00162          TSTL    R3                                              ; 0972
                                                08  13 00164          BEQL    20$
                                   00000000G    8F  DD 00166          PUSHL   #EDT$_INVENT
                                                06  11 0016C          BRB     21$
                                   00000000G    8F  DD 0016E 20$:     PUSHL   #EDT$_INVSUBCOM
                        00000000G   00          01  FB 00174 21$:     CALLS   #1, EDT$$MSG_BELL
                                                   00C9 31 0017B      BRW     40$                                             ; 0974
                                08              53  D1 0017E 22$:     CMPL    R3, #8                                          ; 0984
                                                11  12 00181          BNEQ    24$
                                                55  D5 00183          TSTL    EXPLICIT_REPEAT                                 ; 0988
                                                03  12 00185          BNEQ    23$
                                6E              01  D0 00187          MOVL    #1, REPT_COUNT
00000000G   00                  6E              56  C5 0018A 23$:     MULL3   TADJ_DIR, REPT_COUNT, EDT$$G_TADJ               ; 0994
                                                55  D4 00192          CLRL    EXPLICIT_REPEAT                                 ; 0995
                                04              55  E9 00194 24$:     BLBC    EXPLICIT_REPEAT, 25$                            ; 1004
                             08     AE          6E  C4 00197          MULL2   REPT_COUNT, ENTITY_COUNT
                                6E              01  D0 0019B 25$:     MOVL    #1, REPT_COUNT                                  ; 1006
                                29              52  D1 0019E          CMPL    R2, #41                                         ; 1011
                                                07  12 001A1          BNEQ    26$
                        00000000G   00          00  FB 001A3          CALLS   #0, EDT$$SCAN_SEASTR
                                09              53  D1 001AA 26$:     CMPL    R3, #9                                          ; 1017
                                                07  19 001AD          BLSS    27$
                        00000000G   00          00  FB 001AF          CALLS   #0, EDT$$GET_BUF
                                7F          04  AC  E9 001B6 27$:     BLBC    EXECUTE, 38$                                    ; 1023
                                                53  DD 001BA          PUSHL   R3                                              ; 1026
                                            0C  AE  DD 001BC          PUSHL   ENTITY_COUNT
                                                52  DD 001BF          PUSHL   R2
                        00000000G   00          03  FB 001C1          CALLS   #3, EDT$$EXE_CHMCMD2
                                                63  11 001C8          BRB     37$
                                52              6A  D0 001CA 28$:     MOVL    EDT$$A_CMD_BUF, R2                              ; 1039
                                57              52  D0 001CD          MOVL    R2, OPERAND
```

```
                04              0C              53  CF 001D0           CASEL   R3, #12, #4                                     ; 1041
        000C            0015            003E    0026    001D4 29$:     .WORD   33$-29$,-                                        ;
                                                002F    001DC                  35$-29$,-                                        ;
                                                                               31$-29$,-                                        ;
                                                                               30$-29$,-                                        ;
                                                                               34$-29$                                          ;
                                                39  11 001DE           BRB     36$                                              ;
                        00000000G  00           52  D1 001E0 30$:      CMPL    R2, EDT$$A_CMD_END                               ; 1049
                                                09  13 001E7           BEQL    32$                                              ;
                        00000000G  00           00  FB 001E9 31$:      CALLS   #0, EDT$$SCAN_INSSTR                             ; 1051
                                                27  11 001F0           BRB     36$                                              ;
                                   00000000G    00  D4 001F2 32$:      CLRL    EDT$$G_SEA_LEN                                   ; 1053
                                                1F  11 001F8           BRB     36$                                              ; 1049
                        00000000G  00           00  FB 001FA 33$:      CALLS   #0, EDT$$FND_SUBSTR                              ; 1056
                                                16  11 00201           BRB     36$                                              ;
                                                01  DD 00203 34$:      PUSHL   #1                                               ; 1060
                                                52  DD 00205           PUSHL   R2                                               ;
                        00000000G  00           02  FB 00207           CALLS   #2, EDT$$CNV_UPC                                 ;
                                                6A  D6 0020E           INCL    EDT$$A_CMD_BUF                                   ; 1061
                                                07  11 00210           BRB     36$                                              ; 1041
                        00000000G  00           00  FB 00212 35$:      CALLS   #0, EDT$$GET_BUF                                 ; 1065
                                   1C       04  AC  E9 00219 36$:      BLBC    EXECUTE, 38$                                     ; 1075
                                                55  DD 0021D           PUSHL   EXPLICIT_REPEAT                                  ; 1078
                                                57  DD 0021F           PUSHL   OPERAND                                          ;
                                            08  AE  DD 00221           PUSHL   REPT_COUNT                                       ;
                                                53  DD 00224           PUSHL   R3                                               ;
                        00000000G  00           04  FB 00226           CALLS   #4, EDT$$EXE_CHMCMD1                             ;
                                   54           50  D0 0022D 37$:      MOVL    R0, SUCCEED                                      ;
                                   01           54  D1 00230           CMPL    SUCCEED, #1                                      ; 1080
                                                04  13 00233           BEQL    38$                                              ;
                                   50           54  D0 00235           MOVL    SUCCEED, R0                                      ;
                                                    04 00238           RET                                                      ;
                                   03 00000000G  00  E8 00239 38$:      BLBS    EDT$$G_EXI, 39$                                  ; 1088
                                              FDD0  31 00240           BRW     1$                                               ;
                                   50           01  D0 00243 39$:      MOVL    #1, R0                                           ; 1092
                                                    04 00246           RET                                                      ;
                                                50  D4 00247 40$:      CLRL    R0                                               ; 1093
                                                    04 00249           RET                                                      ;

; Routine Size:  586 bytes,    Routine Base:  _EDT$CODE + 0000

;  524          1094  1
;  525          1095  1 !<BLF/PAGE>
```

```
;  527          1096  1 END                                          ! of module EDT$CHMPARSE
;  528          1097  1
;  529          1098  0 ELUDOM



                                                        EDT$$CHM_PAREXE_NOOVERLAY_REF==
                                                                      EDT$$CHM_PAREXE

;                                  PSECT SUMMARY
;
;       Name                      Bytes                          Attributes
;
;  _EDT$CODE                        586  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         37         9          40       00:00.2
;  _$255$DUA28:[EDT.SRC]PSECTS.L32;1            2          1        50           7       00:00.1
;  _$255$DUA28:[EDT.SRC]SUPPORTS.L32;1          2          2       100           5       00:00.1



;                                      COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS$:CHMPARSE/OBJ=OBJ$:CHMPARSE MSRC$:CHMPARSE.BLI/UPDATE=(ENH$:CHMP
;       ARSE)

; Size:          586 code + 0 data bytes
; Run Time:        00:27.3
; Elapsed Time:    00:30.9
; Lines/CPU Min:    2415
; Lexemes/CPU-Min:  7421
; Memory Used:  202 pages
; Compilation Complete
```

CHMMRKCHG LIS

CHMPARSEN LIS

CHMSELPOS LIS

CHMSPLLIN LIS

DATA LIS

CHMPAREN LIS

CHMUNDEL LIS

COMMAND LIS

CHMONSTR LIS

CHMSAVPOS LIS

CHMSCHSTR LIS

CHMREPOS LIS

CHMMESS LIS

CHMPASTE LIS

CHMSENDEL LIS

CHMTADJ LIS

CHMSAVTXT LIS

CLRKEY LIS

CHMNEWLEN LIS

CHMPARSE LIS

CHMSAVLIN LIS

CHMSUBS LIS