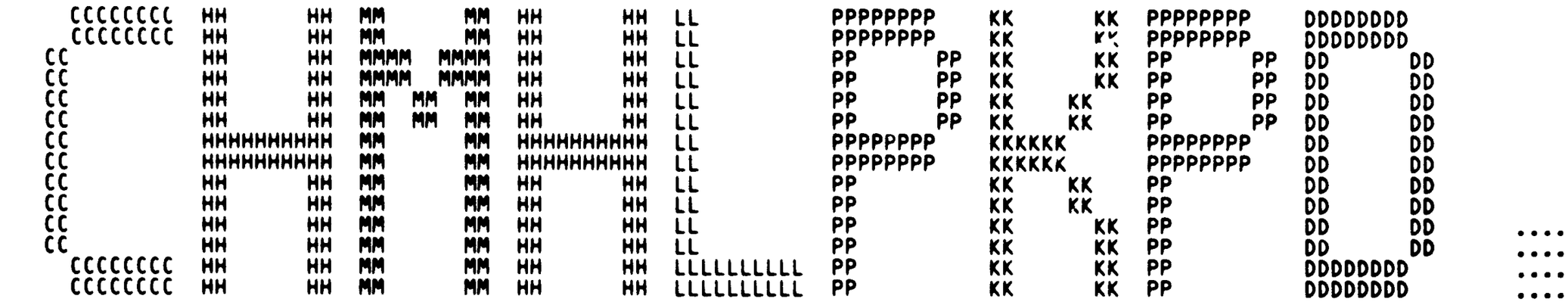
```
EEEEEEEEEEEEEEE  DDDDDDDDDDD     TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEE  DDDDDDDDDDDD    TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEE  DDDDDDDDDDDD    TTTTTTTTTTTTTTT
EEE              DDD         DDD       TTT
EEE              DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEE              DDD          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 HH HH LL PPPPPPPP KK KK PPPPPPPP DDDDDDDD
CCCCCCCC HH HH MM MM HH HH LL PPPPPPPP KK KK PPPPPPPP DDDDDDDD
CC HH HH MMMM MMMM HH HH LL PP PP KK KK PP PP DD DD
CC HH HH MMMM MMMM HH HH LL PP PP KK KK PP PP DD DD
CC HH HH MM MM MM HH HH LL PP PP KK KK PP PP DD DD
CC HH HH MM MM MM HH HH LL PP PP KK KK PP PP DD DD
CC HHHHHHHHHH MM MM HHHHHHHHHH LL PPPPPPPP KKKKK PPPPPPPP DD DD
CC HHHHHHHHHH MM MM HHHHHHHHHH LL PPPPPPPP KKKKK PPPPPPPP DD DD
CC HH HH MM MM HH HH LL PP KK KK PP DD DD
CC HH HH MM MM HH HH LL PP KK KK PP DD DD
CC HH HH MM MM HH HH LL PP KK KK PP DD DD
CC HH HH MM MM HH HH LL PP KK KK PP DD DD
CCCCCCCC HH HH MM MM HH HH LLLLLLLLLL PP KK KK PP DDDDDDDD
CCCCCCCC HH HH MM MM HH HH LLLLLLLLLL PP KK KK PP DDDDDDDD
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$CHMHLPKPD - keypad help'
;  2     0002  0 MODULE EDT$CHMHLPKPD (                          ! Keypad help
;  3     0003  0                 IDENT = 'V04-000'                       ! File: CHMHLPKPD.BLI Edit: JBS1020
;  4     0004  0                 ) =
;  5     0005  1 BEGIN
;  6     0006  1 !
;  7     0007  1 !*****************************************************************************
;  8     0008  1 !*                                                                           *
;  9     0009  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                  *
; 10     0010  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                    *
; 11     0011  1 !*  ALL RIGHTS RESERVED.                                                     *
; 12     0012  1 !*                                                                           *
; 13     0013  1 !*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED   *
; 14     0014  1 !*  ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH  LICENSE  AND WITH THE  *
; 15     0015  1 !*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER  *
; 16     0016  1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  *
; 17     0017  1 !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY  *
; 18     0018  1 !*  TRANSFERRED.                                                             *
; 19     0019  1 !*                                                                           *
; 20     0020  1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE  *
; 21     0021  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
; 22     0022  1 !*  CORPORATION.                                                             *
; 23     0023  1 !*                                                                           *
; 24     0024  1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS  *
; 25     0025  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                  *
; 26     0026  1 !*                                                                           *
; 27     0027  1 !*                                                                           *
; 28     0028  1 !*****************************************************************************
; 29     0029  1 !
; 30     0030  1
; 31     0031  1 !++
; 32     0032  1 ! FACILITY:     EDT -- The DEC Standard Editor
; 33     0033  1 !
; 34     0034  1 ! ABSTRACT:
; 35     0035  1 !
; 36     0036  1 !       This module handles keypad mode help.
; 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
; 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$$KPAD_HLP  from the module CHANGE.BLI.
; 46     0046  1 ! 1-002 - Regularize headers.  JBS 02-Mar-1981
; 47     0047  1 ! 1-003 - Use new message codes.  JBS 04-Aug-1981
; 48     0048  1 ! 1-004 - Add return values.  JBS 02-Oct-1981
; 49     0049  1 ! 1-005 - Revise the mapping of keys into help text. SMB 19-Nov-1981
; 50     0050  1 ! 1-006 - Add a message for no help on nondefinable key. SMB 20-Nov-1981
; 51     0051  1 ! 1-007 - Bypass EDT$$CHM_HLP by calling EDT$$OUT_HLP directly.  JBS 03-Jun-1982
; 52     0052  1 ! 1-008 - Send a shift in on exit from this module.  SMB 29-Jul-1982
; 53     0053  1 ! 1-009 - New implementation of defined keys.  JBS 13-Aug-1982
; 54     0054  1 ! 1-010 - Don't add K_GOLD_BASE to the key, just look it up.  JBS 16-Aug-1982
; 55     0055  1 ! 1-011 - Allow for 8-bit keyboards, and fix a bug in lower case conversion.  JBS 17-Aug-1982
; 56     0056  1 ! 1-012 - Add SS3, for 8-bit keyboards.  JBS 20-Aug-1982
; 57     0057  1 ! 1-013 - Send out the shift-in sequence dependant on terminal. STS 27-Aug-1982
```

```
;    58          0058  1 ! 1-014 - Change the call to erase the screen.  JBS 23-Oct-1982
;    59          0059  1 ! 1-015 - Make sure the cursor is positioned properly before erasing the screen.  JBS 01-Nov-1982
;    60          0060  1 ! 1-016 - On return, rebuild the screen data base.  JBS 01-Nov-1982
;    61          0061  1 ! 1-017 - Add conditional for VT220 support.  JBS 11-Feb-1983
;    62          0062  1 ! 1-018 - Take out unecessary calls to EDT$$OUT_FMTBUF.  SMB 23-Feb-1983
;    63          0063  1 ! 1-019 - Do the setting of the scrolling region for the keypad picture in code instead of in the help text.
;    64          0064  1 !           This way EDT does not lose track of the scrolling region.  JBS 22-Mar-1983
;    65          0065  1 ! 1-020 - Make sure we are in replace mode, so the help screen does not paint slowly.  JBS 21-Apr-1983
;    66          0066  1 !--
;    67          0067  1
```

```
;    69          0068  1 %SBTTL 'Declarations'
;    70          0069  1 !
;    71          0070  1 ! TABLE OF CONTENTS:
;    72          0071  1 !
;    73          0072  1
;    74          0073  1 REQUIRE 'EDTSRC:TRAROUNAM';
;    75          0512  1
;    76          0513  1 FORWARD ROUTINE
;    77          0514  1     EDT$$KPAD_HLP;                          ! Keypad mode help processor
;    78          0515  1
;    79          0516  1 !
;    80          0517  1 ! INCLUDE FILES:
;    81          0518  1 !
;    82          0519  1
;    83          0520  1 REQUIRE 'EDTSRC:EDTREQ';
;    84          0655  1
;    85          0656  1 LIBRARY 'EDTSRC:KEYPADDEF';
;    86          0657  1
;    87          0658  1 LIBRARY 'EDTSRC:SUPPORTS';
;    88          0659  1
;    89          0660  1 !
;    90          0661  1 ! MACROS:
;    91          0662  1 !
;    92          0663  1 !       NONE
;    93          0664  1 !
;    94          0665  1 ! EQUATED SYMBOLS:
;    95          0666  1 !
;    96          0667  1
;    97          0668  1 BIND
;    98        L 0669  1     SHIFT_IN_100 = UPLIT (%STRING (
;    99        L 0670  1         %CHAR (ASC_K_SI),                   ! Shift in
;   100          0671  1         %CHAR (ASC_K_ESC), '[m')),          ! Video attributes off
;   101        L 0672  1 SHIFT_IN_52 = UPLIT (%STRING (
;   102        L 0673  1         %CHAR (ASC_K_SI),                   ! shift in
;   103          0674  1         %CHAR (ASC_K_ESC),'G'));
;   104          0675  1
;   105          0676  1 LITERAL
;   106          0677  1     SI_LEN_52 = 3,
;   107          0678  1     SI_LEN_100 = 4;
;   108          0679  1
;   109          0680  1 !
;   110          0681  1 ! OWN STORAGE:
;   111          0682  1 !
;   112          0683  1 !       NONE
;   113          0684  1 !
;   114          0685  1 ! EXTERNAL REFERENCES:
;   115          0686  1 !
;   116          0687  1 !       In the routine
```

```
;  118          0688  1 %SBTTL 'EDT$$KPAD_HLP  - keypad help'
;  119          0689  1
;  120          0690  1 GLOBAL ROUTINE EDT$$KPAD_HLP                    ! Keypad help
;  121          0691  1     =
;  122          0692  1
;  123          0693  1 !++
;  124          0694  1 ! FUNCTIONAL DESCRIPTION:
;  125          0695  1 !
;  126          0696  1 !       This routine handles help while in keypad mode.  The help processor
;  127          0697  1 !       is first called to put up the keypad diagram.  Then we go into a loop
;  128          0698  1 !       accepting characters and, if they are definable keys, we give the help
;  129          0699  1 !       message for the key.
;  130          0700  1 !
;  131          0701  1 ! FORMAL PARAMETERS:
;  132          0702  1 !
;  133          0703  1 !       NONE
;  134          0704  1 !
;  135          0705  1 ! IMPLICIT INPUTS:
;  136          0706  1 !
;  137          0707  1 !       EDT$$G_TI_TYP
;  138          0708  1 !
;  139          0709  1 ! IMPLICIT OUTPUTS:
;  140          0710  1 !
;  141          0711  1 !       EDT$$G_SCR_CHGD
;  142          0712  1 !       EDT$$G_CS_ENO
;  143          0713  1 !       EDT$$G_SCR_REBUILD
;  144          0714  1 !
;  145          0715  1 ! ROUTINE VALUE:
;  146          0716  1 !
;  147          0717  1 !       1 = ok, 0 = end of journal file
;  148          0718  1 !
;  149          0719  1 ! SIDE EFFECTS:
;  150          0720  1 !
;  151          0721  1 !       NONE
;  152          0722  1 !
;  153          0723  1 !--
;  154          0724  1
;  155          0725  2     BEGIN
;  156          0726  2
;  157          0727  2     EXTERNAL ROUTINE
;  158          0728  2         EDT$$FMT_LIT,                       ! Format a literal
;  159          0729  2         EDT$$FMT_CRLF,                      ! Format a CRLF
;  160          0730  2         EDT$$OUT_FMTBUF,                    ! Dump the format buffer
;  161          0731  2         EDT$$OUT_HLP,                       ! Get help
;  162          0732  2         EDT$$TRN_KPADK,                     ! Translate an escape sequence
;  163          0733  2         EDT$$SC_POSABS : NOVALUE,           ! Position the cursor
;  164          0734  2         EDT$$SC_ERAALL,                     ! Erase to end of screen
;  165          0735  2         EDT$$MSG_TOSTR,                     ! Get message text
;  166          0736  2         EDT$$TI_INPCH,                      ! Get a character of input
;  167          0737  2         EDT$$TST_BADK,                      ! Test for an undefinable key
;  168          0738  2         EDT$$SC_SETSCLLREG : NOVALUE,       ! Set the scrolling region
;  169          0739  2         EDT$$SC_REP_MODE : NOVALUE;         ! Make sure we are in replace (not insert) mode.
;  170          0740  2
;  171          0741  2     EXTERNAL
;  172          0742  2         EDT$$G_TI_TYP,                      ! Terminal type.
;  173          0743  2         EDT$$G_SCR_CHGD,                    ! 1 = screen update must rebuild the screen
;  174          0744  2
```

```
;  175        L 0745  2 %IF SUPPORT_VT220
;  176          0746  2 %THEN
;  177          0747  2         EDT$$B_CHAR_INFO : BLOCKVECTOR [256, 1, BYTE],  ! Information about characters
;  178          0748  2 %FI
;  179          0749  2
;  180          0750  2         EDT$$G_CS_LNO,                          ! Line number to erase from
;  181          0751  2         EDT$$G_SCR_REBUILD,                     ! 1 = rebuild the screen data base
;  182          0752  2         EDT$$G_INSERT_MODE;                     ! 1 = screen is in insert mode
;  183          0753  2
;  184          0754  2     MESSAGES ((TORETKEY, FORHLPANO, TOEXITHLP, KEYNOTDEF));
;  185          0755  2
;  186          0756  2     LOCAL
;  187          0757  2         CURSOR_SAVED,
;  188          0758  2         HELP_STRING : BLOCK [CH$ALLOCATION (16)],
;  189          0759  2         CH,
;  190          0760  2         C;
;  191          0761  2
;  192          0762  2 !+
;  193          0763  2 ! Get the right terminal type.
;  194          0764  2 !-
;  195          0765  2
;  196          0766  3     IF (.EDT$$G_TI_TYP EQL TERM_VT100)          !
;  197          0767  2     THEN
;  198          0768  2         EDT$$CPY_MEM (15, UPLIT (%STRING ('KEYPAD VT100   ')), HELP_STRING)
;  199          0769  2     ELSE
;  200          0770  2         EDT$$CPY_MEM (15, UPLIT (%STRING ('KEYPAD VT52    ')), HELP_STRING);
;  201          0771  2
;  202          0772  2 !+
;  203          0773  2 ! Because EDT$$OUT_HLP prints a blank line before the text it finds, for the keypad
;  204          0774  2 ! diagram that text starts with a sequence to erase the whole screen and position the
;  205          0775  2 ! cursor to the upper left corner.  Therefore we need not do cursor positioning here.
;  206          0776  2 ! However, we do set the scrolling region to the full screen.
;  207          0777  2 !-
;  208          0778  2     CURSOR_SAVED = .EDT$$G_CS_LNO;
;  209          0779  2     EDT$$G_CS_LNO = 0;
;  210          0780  2     EDT$$G_SCR_CHGD = 1;
;  211          0781  2     EDT$$SC_SETSCLLREG (0, 24);                 ! Full-screen scrolling region
;  212          0782  2
;  213          0783  2     IF (.EDT$$G_INSERT_MODE NEQ 0) THEN EDT$$SC_REP_MODE ();    ! Make sure we are in replace mode
;  214          0784  2
;  215          0785  2 !+
;  216          0786  2 ! Call help to get the keypad diagram.
;  217          0787  2 !-
;  218          0788  2     EDT$$OUT_HLP (HELP_STRING, 12, 0);
;  219          0789  2 !+
;  220          0790  2 ! Loop, displaying help on keypad keys.
;  221          0791  2 !-
;  222          0792  2
;  223          0793  2     WHILE 1 DO
;  224          0794  3         BEGIN
;  225          0795  3 !+
;  226          0796  3 ! Send a precautionary shift-in plus turn video attributes off
;  227          0797  3 ! (mostly in case the person issues a CTRL-O).
;  228          0798  3 !-
;  229          0799  3
;  230          0800  4         IF (.EDT$$G_TI_TYP EQL TERM_VT100)      !
;  231          0801  3         THEN
```

```
;  232          0802  3            EDT$$FMT_LIT (SHIFT_IN_100, SI_LEN_100)
;  233          0803  3        ELSE
;  234          0804  3            EDT$$FMT_LIT (SHIFT_IN_52, SI_LEN_52);
;  235          0805  3
;  236          0806  3    !+
;  237          0807  3    ! Get next character.
;  238          0808  3    !-
;  239          0809  3
;  240          0810  3        IF (EDT$$TI_INPCH (C) EQL 0) THEN RETURN (0);
;  241          0811  3
;  242          0812  3    !+
;  243          0813  3    ! Convert lower case to upper.
;  244          0814  3    !-
;  245          0815  3
;  246        L 0816  3    %IF SUPPORT_VT220
;  247          0817  3    %THEN
;  248          0818  3
;  249          0819  3        IF .EDT$$B_CHAR_INFO [.C, 0, 0, 1, 0] THEN C = .C - 32;
;  250          0820  3
;  251        U 0821  3    %ELSE
;  252        U 0822  3
;  253        U 0823  3        IF ((.C GEQ %C'a') AND (.C LEQ %C'z')) THEN C = .C - %C'a' + %C'A';
;  254        U 0824  3
;  255          0825  3    %FI
;  256          0826  3
;  257          0827  3    !+
;  258          0828  3    ! Erase the screen.
;  259          0829  3    !-
;  260          0830  3        EDT$$G_CS_LNO = 0;
;  261          0831  3        EDT$$G_SCR_CHGD = 1;
;  262          0832  3        EDT$$SC_POSABS (0, 0);
;  263          0833  3        EDT$$SC_ERAALL ();
;  264          0834  3    !+
;  265          0835  3    ! When we return to change mode we must rebuild the screen and the screen data base.
;  266          0836  3    !-
;  267          0837  3        EDT$$G_SCR_CHGD = 1;
;  268          0838  3        EDT$$G_SCR_REBUILD = 1;
;  269          0839  3        EDT$$G_CS_LNO = .CURSOR_SAVED;
;  270          0840  3    !+
;  271          0841  3    ! If the character is a space, exit the loop
;  272          0842  3    ! and return to the original editing position.
;  273          0843  3    !-
;  274          0844  3
;  275          0845  3        IF (.C EQL ASC_K_SP) THEN EXITLOOP;
;  276          0846  3
;  277          0847  3    !+
;  278          0848  3    ! If the character is an escape, CSI or SS3, translate the escape or control sequence.
;  279          0849  3    !-
;  280          0850  3
;  281        L 0851  3    %IF SUPPORT_VT220
;  282          0852  3    %THEN
;  283          0853  3
;  284          0854  3        IF ((.C EQL ASC_K_ESC) OR (.C EQL ASC_K_CSI) OR (.C EQL ASC_K_SS3)) THEN EDT$$TRN_KPADK (C);
;  285          0855  3
;  286        U 0856  3    %ELSE
;  287        U 0857  3
;  288        U 0858  3        IF (.C EQL ASC_K_ESC) THEN EDT$$TRN_KPADK (C);
```

```
;  289        U 0859  3
;  290          0860  3 %FI
;  291          0861  3
;  292          0862  3 !+
;  293          0863  3 ! If the character is a carriage return, re-display the keypad diagram.
;  294          0864  3 !-
;  295          0865  3
;  296          0866  4         IF (.C EQL ASC_K_CR)
;  297          0867  3         THEN
;  298          0868  3             EDT$$OUT_HLP (HELP_STRING, 12, 0)
;  299          0869  3         ELSE
;  300          0870  4             BEGIN
;  301          0871  4 !+
;  302          0872  4 ! Give a different message if the key is not definable.
;  303          0873  4 !-
;  304          0874  4
;  305          0875  5             IF (EDT$$TST_BADK (.C) AND EDT$$TST_BADK (.C + K_GOLD_BASE))
;  306          0876  4             THEN
;  307          0877  5                 BEGIN
;  308          0878  5 !+
;  309          0879  5 ! The key is not defineable; display a message but continue looping.
;  310          0880  5 !-
;  311          0881  5                 EDT$$MSG_TOSTR (EDT$_KEYNOTDEF);
;  312          0882  5                 EDT$$FMT_CRLF ();
;  313          0883  5                 END
;  314          0884  4             ELSE
;  315          0885  5                 BEGIN
;  316          0886  5 !+
;  317          0887  5 ! Get the key number so we can create the topic (key number is 3 digits: 000-499)
;  318          0888  5 !-
;  319          0889  5                 CH$WCHAR (.C/100 + %C'0', CH$PTR (HELP_STRING, 13));
;  320          0890  5                 CH = (.C MOD 100);
;  321          0891  5                 CH$WCHAR (.CH/10 + %C'0', CH$PTR (HELP_STRING, 14));
;  322          0892  5                 CH$WCHAR (.CH MOD 10 + %C'0', CH$PTR (HELP_STRING, 15));
;  323          0893  5 !+
;  324          0894  5 ! Get the help text for the key.  The GOLD meaning of the key is included.
;  325          0895  5 !-
;  326          0896  5                 EDT$$OUT_HLP (HELP_STRING, 16, 0);
;  327          0897  4                 END;
;  328          0898  4
;  329          0899  4 !+
;  330          0900  4 ! Output the help instructions.
;  331          0901  4 !-
;  332          0902  4             EDT$$FMT_CRLF ();
;  333          0903  4             EDT$$MSG_TOSTR (EDT$_TORETKEY);
;  334          0904  4             EDT$$FMT_CRLF ();
;  335          0905  4             EDT$$MSG_TOSTR (EDT$_TOEXITHLP);
;  336          0906  4             EDT$$FMT_CRLF ();
;  337          0907  4             EDT$$MSG_TOSTR (EDT$_FORHLPANO);
;  338          0908  4             EDT$$OUT_FMTBUF ();
;  339          0909  3             END;
;  340          0910  3
;  341          0911  2         END;
;  342          0912  2
;  343          0913  2 !+
;  344          0914  2 ! Again be sure we have the none video terminal attributes in case
;  345          0915  2 ! this module terminates abnormally.
```

```
;  346          0916  2 !-
;  347          0917  2
;  348          0918  3     IF (.EDT$$G_TI_TYP EQL TERM_VT100)          !
;  349          0919  2     THEN
;  350          0920  2         EDT$$FMT_LIT (SHIFT_IN_100, SI_LEN_100)
;  351          0921  2     ELSE
;  352          0922  2         EDT$$FMT_LIT (SHIFT_IN_52, SI_LEN_52);
;  353          0923  2
;  354          0924  2     EDT$$OUT_FMTBUF ();
;  355          0925  2     RETURN (T);
;  356          0926  1     END;                                        ! of routine EDT$$KPAD_HLP


                                                                        .TITLE  EDT$CHMHLPKPD EDT$CHMHLPKPD - keypad help
                                                                        .IDENT  \V04-000\

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

                                                    6D  5B  1B  0F  00000 P.AAA:  .ASCII  <15><27>\[m\                                  ;
                                                    00  47  1B  0F  00004 P.AAB:  .ASCII  <15><27>\G\<0>                                ;
20  20  20  30  30  31  54  56  20  44  41  50  59  45  4B  00008 P.AAC:  .ASCII  \KEYPAD VT100   \<0>                                   ;
                                                        00  00017                                                                       ;
20  20  20  20  32  35  54  56  20  44  41  50  59  45  4B  00018 P.AAD:  .ASCII  \KEYPAD VT52    \<0>                                   ;
                                                        00  00027                                                                       ;

                                                                    SHIFT_IN_100=       P.AAA
                                                                    SHIFT_IN_52=        P.AAB
                                                                        .EXTRN  EDT$$FMT_LIT, EDT$$FMT_CRLF
                                                                        .EXTRN  EDT$$OUT_FMTBUF
                                                                        .EXTRN  EDT$$OUT_HLP, EDT$$TRN_KPADK
                                                                        .EXTRN  EDT$$SC_POSABS, EDT$$SC_ERAALL
                                                                        .EXTRN  EDT$$MSG_TOSTR, EDT$$TI_INPCH
                                                                        .EXTRN  EDT$$TST_BADK, EDT$$SC_SETSCLLREG
                                                                        .EXTRN  EDT$$SC_REP_MODE
                                                                        .EXTRN  EDT$$G_TI_TYP, EDT$$G_SCR_CHGD
                                                                        .EXTRN  EDT$$B_CHAR_INFO
                                                                        .EXTRN  EDT$$G_CS_LNO, EDT$$G_SCR_REBUILD
                                                                        .EXTRN  EDT$$G_INSERT_MODE
                                                                        .EXTRN  EDT$_TORETKEY, EDT$_FORHLPANO
                                                                        .EXTRN  EDT$_TOEXITHLP, EDT$_KEYNOTDEF

                                                    0FFC 00000          .ENTRY  EDT$$KPAD_HLP, Save R2,R3,R4,R5,R6,R7,R8,-  ; 0690
                                                                                R9,R10,R11                                              ;
                                5B 00000000G    00  9E 00002            MOVAB   EDT$$G_TI_TYP, R11                                      ;
                                5A 00000000G    00  9E 00009            MOVAB   EDT$$G_SCR_CHGD, R10                                    ;
                                59       C5     AF  9E 00010            MOVAB   SHIFT_IN_100, R9                                        ;
                                58 00000000G    00  9E 00014            MOVAB   EDT$$FMT_CRLF, R8                                       ;
                                57 00000000G    00  9E 00018            MOVAB   EDT$$MSG_TOSTR, R7                                      ;
                                56 00000000G    00  9E 00022            MOVAB   EDT$$G_CS_LNO, R6                                       ;
                                5E              14  C2 00029            SUBL2   #20, SP                                                 ;
                                02              6B  D1 0002C            CMPL    EDT$$G_TI_TYP, #2                               ; 0766
                                                08  12 0002F            BNEQ    1$                                                      ;
04  AE          08  A9                      0F  28 00031            MOVC3   #15, P.AAC, HELP_STRING                         ; 0768
                                                06  11 00037            BRB     2$                                                      ;
04  AE          18  A9                      0F  28 00039 1$:        MOVC3   #15, P.AAD, HELP_STRING                         ; 0770
                                54              66  D0 0003F 2$:        MOVL    EDT$$G_CS_LNO, CURSOR_SAVED                     ; 0778
                                                66  D4 00042            CLRL    EDT$$G_CS_LNO                                   ; 0779
```

```
                    6A              01  D0 00044          MOVL    #1, EDT$$G_SCR_CHGD                     ; 0780
                                    18  DD 00047          PUSHL   #24                                     ; 0781
                                    7E  D4 00049          CLRL    -(SP)                                   ;
                00000000G   00      02  FB 0004B          CALLS   #2, EDT$$SC_SETSCLLREG                  ;
                        00000000G   00  D5 00052          TSTL    EDT$$G_INSERT_MODE                      ; 0783
                                    07  13 00058          BEQL    3$                                      ;
                00000000G   00      00  FB 0005A          CALLS   #0, EDT$$SC_REP_MODE                    ;
                            7E      0C  7D 00061  3$:      MOVQ    #12, -(SP)                              ; 0788
                                  0C    AE  9F 00064          PUSHAB  HELP_STRING                             ;
                00000000G   00      03  FB 00067          CALLS   #3, EDT$$OUT_HLP                        ;
                            02      6B  D1 0006E  4$:      CMPL    EDT$$G_TI_TYP, #2                       ; 0800
                                    06  12 00071          BNEQ    5$                                      ;
                                    04  DD 00073          PUSHL   #4                                      ; 0802
                                    59  DD 00075          PUSHL   R9                                      ;
                                    05  11 00077          BRB     6$                                      ;
                                    03  DD 00079  5$:      PUSHL   #3                                      ; 0804
                                  04    A9  9F 0007B          PUSHAB  SHIFT_IN_52                             ;
                00000000G   00      02  FB 0007E  6$:      CALLS   #2, EDT$$FMT_LIT                        ;
                                    5E  DD 00085          PUSHL   SP                                      ; 0810
                00000000G   00      01  FB 00087          CALLS   #1, EDT$$TI_INPCH                       ;
                                    50  D5 0008E          TSTL    R0                                      ;
                                    03  12 00090          BNEQ    7$                                      ;
                                011D    31 00092          BRW     18$                                     ;
                            50  00000000G  00  9E 00095  7$:      MOVAB   EDT$$B_CHAR_INFO, R0            ; 0819
        03          00 BE40             00  E1 0009C          BBC     #0, aC[R0], 8$                  ;
                            6E          20  C2 000A2          SUBL2   #32, C                          ;
                                        66  D4 000A5  8$:      CLRL    EDT$$G_CS_LNO                   ; 0830
                            6A          01  D0 000A7          MOVL    #1, EDT$$G_SCR_CHGD             ; 0831
                                        7E  7C 000AA          CLRQ    -(SP)                           ; 0832
                00000000G   00          02  FB 000AC          CALLS   #2, EDT$$SC_POSABS              ;
                00000000G   00          00  FB 000B3          CALLS   #0, EDT$$SC_ERAALL              ; 0833
                            6A          01  D0 000BA          MOVL    #1, EDT$$G_SCR_CHGD             ; 0837
                00000000G   00          01  D0 000BD          MOVL    #1, EDT$$G_SCR_REBUILD          ; 0838
                            66          54  D0 000C4          MOVL    CURSOR_SAVED, EDT$$G_CS_LNO     ; 0839
                            20          6E  D1 000C7          CMPL    C, #32                          ; 0845
                                        03  12 000CA          BNEQ    9$                              ;
                                    00C1    31 000CC          BRW     15$                             ;
                            1B          6E  D1 000CF  9$:      CMPL    C, #27                          ; 0854
                                        12  13 000D2          BEQL    10$                             ;
                0000009B    8F          6E  D1 000D4          CMPL    C, #155                         ;
                                        09  13 000DB          BEQL    10$                             ;
                0000008F    8F          6E  D1 000DD          CMPL    C, #143                         ;
                                        09  12 000E4          BNEQ    11$                             ;
                                        5E  DD 000E6  10$:     PUSHL   SP                              ;
                00000000G   00          01  FB 000E8          CALLS   #1, EDT$$TRN_KPADK              ;
                            53          6E  D0 000EF  11$:     MOVL    C, R3                           ; 0866
                            0D          53  D1 000F2          CMPL    R3, #13                         ;
                                        03  12 000F5          BNEQ    12$                             ;
                                    FF67    31 000F7          BRW     3$                              ;
                                        53  DD 000FA  12$:     PUSHL   R3                              ; 0875
                0C0000000G  00          01  FB 000FC          CALLS   #1, EDT$$TST_BADK               ;
                            1C          50  E9 00103          BLBC    R0, 13$                         ;
                                  01F4  C3  9F 00106          PUSHAB  500(R3)                         ;
                00000000G   00          01  FB 0010A          CALLS   #1, EDT$$TST_BADK               ;
                            0E          50  E9 00111          BLBC    R0, 13$                         ;
                                00000000G   8F  DD 00114      PUSHL   #EDT$_KEYNOTDEF                 ; 0881
                            67          01  FB 0011A          CALLS   #1, EDT$$MSG_TOSTR              ;
```

```
                                68                      00  FB 0011D          CALLS   #0, EDT$$FMT_CRLF                    ; 0882
                                                        40  11 00120          BRB     14$                                 ; 0875
                          50    53 00000064             8F  C7 00122 13$:     DIVL3   #100, R3, R0                        ; 0889
                    11    AE    50                      30  81 0012A          ADDB3   #48, R0, HELP_STRING+13             ;
                7E        00    53                      01  7A 0012F          EMUL    #1, R3, #0, -(SP)                   ; 0890
                52        52    8E 00000064             8F  7B 00134          EDIV    #100, (SP)+, CH, CH                 ;
                          50    52                      0A  C7 0013D          DIVL3   #10, CH, R0                         ; 0891
                    12    AE    50                      30  81 00141          ADDB3   #48, R0, HELP_STRING+14             ;
                7E        00    52                      01  7A 00146          EMUL    #1, CH, #0, -(SP)                   ; 0892
                50        50    8E                      0A  7B 0014B          EDIV    #10, (SP)+, R0, R0                  ;
                    13    AE    50                      30  81 00150          ADDB3   #48, R0, HELP_STRING+15             ;
                                7E                      10  7D 00155          MOVQ    #16, -(SP)                          ; 0896
                                        0C      AE      9F  00158             PUSHAB  HELP_STRING                         ;
                          00000000G     00              03  FB 0015B          CALLS   #3, EDT$$OUT_HLP                    ;
                                68                      00  FB 00162 14$:     CALLS   #0, EDT$$FMT_CRLF                   ; 0902
                                        00000000G       8F  DD 00165          PUSHL   #EDT$_TORETKEY                      ; 0903
                                67                      01  FB 0016B          CALLS   #1, EDT$$MSG_TOSTR                  ;
                                68                      00  FB 0016E          CALLS   #0, EDT$$FMT_CRLF                   ; 0904
                                        00000000G       8F  DD 00171          PUSHL   #EDT$_TOEXITHLP                     ; 0905
                                67                      01  FB 00177          CALLS   #1, EDT$$MSG_TOSTR                  ;
                                68                      00  FB 0017A          CALLS   #0, EDT$$FMT_CRLF                   ; 0906
                                        00000000G       8F  DD 0017D          PUSHL   #EDT$_FORHLPANO                     ; 0907
                                67                      01  FB 00183          CALLS   #1, EDT$$MSG_TOSTR                  ;
                          00000000G     00              00  FB 00186          CALLS   #0, EDT$$OUT_FMTBUF                 ; 0908
                                                    FEDE  31  0018D          BRW     4$                                  ; 0793
                                02                      6B  D1 00190 15$:     CMPL    EDT$$G_TI_TYP, #2                   ; 0918
                                                        06  12 00193          BNEQ    16$                                 ;
                                                        04  DD 00195          PUSHL   #4                                  ; 0920
                                                        59  DD 00197          PUSHL   R9                                  ;
                                                        05  11 00199          BRB     17$                                 ;
                                                        03  DD 0019B 16$:     PUSHL   #3                                  ; 0922
                                        04      A9      9F  0019D             PUSHAB  SHIFT_IN_52                         ;
                          00000000G     00              02  FB 001A0 17$:     CALLS   #2, EDT$$FMT_LIT                    ;
                          00000000G     00              00  FB 001A7          CALLS   #0, EDT$$OUT_FMTBUF                 ; 0924
                                50                      01  D0 001AE          MOVL    #1, R0                              ; 0925
                                                            04 001B1          RET                                         ;
                                                        50  D4 001B2 18$:     CLRL    R0                                  ; 0926
                                                            04 001B4          RET                                         ;

; Routine Size:  437 bytes,    Routine Base:  _EDT$CODE + 0028

;  357          0927  1
;  358          0928  1 !<BLF/PAGE>
```

```
;  360          0929  1 END                                   ! of module EDT$CHMHLPKPD
;  361          0930  1
;  362          0931  0 ELUDOM
```

```
;                                PSECT SUMMARY
;
;       Name                    Bytes                   Attributes
;
;  _EDT$CODE                        477  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          8         2          40        00:00.2
;  _$255$DUA28:[EDT.SRC]PSECTS.L32;1         2          1        50           7        00:00.1
;  _$255$DUA28:[EDT.SRC]KEYPADDEF.L32;1     34          1         2           7        00:00.1
;  _$255$DUA28:[EDT.SRC]SUPPORTS.L32;1       2          1        50           5        00:00.1
```

```
;                                   COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS$·CHMHLPKPD/OBJ=OBJ$:CHMHLPKPD MSRC$:CHMHLPKPD.BLI/UPDATE=(ENH$:C
;       HMHLPKPD)

; Size:          437 code + 40 data bytes
; Run Time:        00:20.4
; Elapsed Time:    00:24.9
; Lines/CPU Min:    2735
; Lexemes/CPU-Min:  8650
; Memory Used:  142 pages
; Compilation Complete
```

CHMFINENT
LIS

CHMINIT
LIS

CHMGCOUNT
LIS

CHMGINSTR
LIS

CHMGSUSTR
LIS

CHMINSMOD
LIS

CHMEMESS
LIS

CHMINSTAB
LIS

CHMENTTRM
LIS

CHMGBUF
LIS

CHMINSCHR
LIS

CHMINDATE
LIS

CHMEXVERB
LIS

CHMFINSTR
LIS

CHMGDIR
LIS

CHMGQUSTR
LIS

CHMHLPKPD
LIS

CHMINSSTR
LIS

CHMKEYWRD
LIS

CHMENDWRD
LIS

CHMEXCOM
LIS