


```

KF      KK  EEEEEEEEE  YY      YY  TTTTTTTTT  RRRRRRR  NN      NN  CCCCCCCC  HH      HH  RRRRRRR
KK      KK  EEEEEEEEE  YY      YY  TTTTTTTTT  RRRRRRR  NN      NN  CCCCCCCC  HH      HH  RRRRRRR
KK      KK  EE          YY      YY  TT          RR      RR  NN      NN  CC        HH      HH  RR      RR
KK      KK  EE          YY      YY  TT          RR      RR  NN      NN  CC        HH      HH  RR      RR
KK      KK  EE          YY      YY  TT          RR      RR  NN      NN  CC        HH      HH  RR      RR
KK      KK  EE          YY      YY  TT          RR      RR  NN      NN  CC        HH      HH  RR      RR
KK      KK  EE          YY      YY  TT          RR      RR  NN      NN  CC        HH      HH  RR      RR
KK      KK  EE          YY      YY  TT          RR      RR  NN      NN  CC        HH      HH  RR      RR
KK      KK  EE          YY      YY  TT          RR      RR  NN      NN  CC        HH      HH  RR      RR
KK      KK  EE          YY      YY  TT          RR      RR  NN      NN  CC        HH      HH  RR      RR
KK      KK  EEEEEEEEE  YY      YY  TT          RR      RR  NN      NN  CC        HH      HH  RR      RR
KK      KK  EEEEEEEEE  YY      YY  TT          RR      RR  NN      NN  CC        HH      HH  RR      RR

```

```

....
....
....
....

```

```

LL      I11111  SSSSSSSS
LL      I11111  SSSSSSSS
LL      I1      SS
LL      I1      SS
LL      I1      SS
LL      I1      SS
LL      I1      SSSSSS
LL      I1      SSSSSS
LL      I1      SS
LL      I1      SS
LL      I1      SS
LL      I1      SS
LL      I1      SS
LLLLLLLL  I11111  SSSSSSSS
LLLLLLLL  I11111  SSSSSSSS

```



```

1 0001 0 %TITLE 'EDT$KEYTRNCHR - translate keypad key'
2 0002 0 MODULE EDT$KEYTRNCHR ( ! Translate keypad key
3 0003 0 IDENT = 'V04-000' ! File: KEYTRNCHR.BLI Edit: JBS1005
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 *
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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 Translate keypad key.
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: April 7, 1979
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original. DJS 24-Feb-1981. This module was created by
45 0045 1 extracting routine EDT$$TRN_KPADK from module KEYTRAN.
46 0046 1 1-002 - Regularize headers. JBS 10-Mar-1981
47 0047 1 1-003 - Add return values. JBS 02-Oct-1981
48 0048 1 1-004 - New implementation of defined keys. JBS 13-Aug-1982
49 0049 1 1-005 - Add conditional for VT220 support. JBS 11-Feb-1983
50 0050 1 --
51 0051 1

```

```
53 0052 1 %SBTTL 'Declarations'
54 0053 1
55 0054 1 : TABLE OF CONTENTS:
56 0055 1 :
57 0056 1
58 0057 1 REQUIRE 'EDT$SRC:TRAROUNAM';
59 0496 1
60 0497 1 FORWARD ROUTINE
61 0498 1 EDT$$TRN_KPADK; ! Translate a keypad key
62 0499 1
63 0500 1 :
64 0501 1 : INCLUDE FILES:
65 0502 1 :
66 0503 1
67 0504 1 REQUIRE 'EDT$SRC:EDTREQ';
68 0639 1
69 0640 1 LIBRARY 'EDT$SRC:KEYPADDEF';
70 0641 1
71 0642 1 LIBRARY 'EDT$SRC:SUPPORTS';
72 0643 1
73 0644 1 :
74 0645 1 : MACROS:
75 0646 1 :
76 0647 1 : NONE
77 0648 1 :
78 0649 1 : EQUATED SYMBOLS:
79 0650 1 :
80 0651 1 :
81 0652 1 : * The following table is searched to find the meaning of
82 0653 1 : any keypad key. The ordinal position in the table
83 0654 1 : corresponds to the definitions for special keypad keys.
84 0655 1 : -
85 0656 1
86 0657 1 BIND
87 0658 1 KEY_PAD = UPLIT BYTE
88 0659 1 ('pqrstuvwxyzQRABCDnSmLPM') : VECTOR [22, BYTE];
89 0660 1
90 0661 1 :
91 0662 1 : OWN STORAGE:
92 0663 1 :
93 0664 1 : NONE
94 0665 1 :
95 0666 1 : EXTERNAL REFERENCES:
96 0667 1 :
97 0668 1 : In the routine
```

```

99 0669 1 %SBTTL 'EDT$$TRN_KPADK - translate a keypad key'
100 0670 1
101 0671 1 GLOBAL ROUTINE EDT$$TRN_KPADK (           ! Translate a keypad key
102 0672 1 C                                           ! Where to store the translation
103 0673 1 ) =
104 0674 1
105 0675 1 !++
106 0676 1 ! FUNCTIONAL DESCRIPTION:
107 0677 1
108 0678 1 !       This routine is called when an escape character has been seen.  The escape
109 0679 1 !       or control sequence is read up to the terminator, and, if it is a sequence generated
110 0680 1 !       by a keypad or function key, the numeric value for that key is returned; otherwise,
111 0681 1 !       the terminator character is returned.
112 0682 1
113 0683 1 ! FORMAL PARAMETERS:
114 0684 1
115 0685 1 ! C                               The address of a fullword to receive the translated character.
116 0686 1
117 0687 1 ! IMPLICIT INPUTS:
118 0688 1
119 0689 1 !     NONE
120 0690 1
121 0691 1 ! IMPLICIT OUTPUTS:
122 0692 1
123 0693 1 !     NONE
124 0694 1
125 0695 1 ! ROUTINE VALUE:
126 0696 1
127 0697 1 !     1 = ok, 0 = end of journal file
128 0698 1
129 0699 1 ! SIDE EFFECTS:
130 0700 1
131 0701 1 !     Calls EDT$$TI_INPCH to read from the keyboard.
132 0702 1
133 0703 1 ! --
134 0704 1
135 0705 2 BEGIN
136 0706 2
137 0707 2 EXTERNAL ROUTINE
138 0708 2 EDT$$TI_INPCH;
139 0709 2
140 L 0710 2 %IF SUPPORT_VT220
141 0711 2 %THEN
142 0712 2
143 0713 2 EXTERNAL
144 0714 2 EDT$$B_CHAR_INFO : BLOCKVECTOR [256, 1, BYTE]; ! Information about characters
145 0715 2
146 0716 2 %FI
147 0717 2
148 0718 2 LOCAL
149 0719 2 MY_C,
150 0720 2 FUN_VAL;
151 0721 2
152 0722 2 FUN_VAL = 0;
153 0723 2 !+
154 0724 2 ! Keep reading characters as long as they are intermediate characters of
155 0725 2 ! VT52 or VT100 keypad sequences.
```

```
156 0726 2 :-  
157 0727 2  
158 0728 2 DO  
159 0729 2 BEGIN  
160 0730 2  
161 0731 2 IF (EDT$$TI_INPCH (MY_C) EQL 0) THEN RETURN (0);  
162 0732 2  
163 L 0733 2 %IF SUPPORT_VT220  
164 0734 2 %THEN  
165 0735 2  
166 0736 2 IF (.EDT$$B_CHAR_INFO [.MY_C, 0, 0, 8, 0] EQL %X'FO')  
167 0737 2 THEN  
168 0738 2 BEGIN  
169 0739 2 !+  
170 0740 2 !: Accumulate a number.  
171 0741 2 !-  
172 0742 2 FUN_VAL = .FUN_VAL*10;  
173 0743 2 FUN_VAL = .FUN_VAL + (.MY_C - %C'0');  
174 0744 2  
175 0745 2 IF (.FUN_VAL GTR K_MAX_FUN_VAL) THEN FUN_VAL = 0;  
176 0746 2  
177 0747 2 END;  
178 0748 2  
179 0749 2 %FI  
180 0750 2  
181 0751 2 END  
182 0752 2 UNTIL ((.MY_C NEQ %C'?) AND  
183 0753 2 (.MY_C NEQ %C'0') AND  
184 0754 2 (.MY_C NEQ %C'[')  
185 0755 2  
186 L 0756 2 %IF SUPPORT_VT220  
187 0757 2 %THEN  
188 0758 2 AND (.EDT$$B_CHAR_INFO [.MY_C, 0, 0, 8, 0] NEQ %X'FO')  
189 0759 2 %FI  
190 0760 2  
191 0761 2 );  
192 0762 2  
193 0763 2 !+  
194 0764 2 !: If this is a function key, we know the value from the number accumulated.  
195 0765 2 !-  
196 0766 2  
197 L 0767 2 %IF SUPPORT_VT220  
198 0768 2 %THEN  
199 0769 2  
200 0770 2 IF (.MY_C EQL %C'~')  
201 0771 2 THEN  
202 0772 2 MY_C = K_FUN_BASE + .FUN_VAL  
203 0773 2 ELSE  
204 0774 2 %FI  
205 0775 2  
206 0776 2 BEGIN  
207 0777 2 !+  
208 0778 2 !: Not a function key, search our table of keypad sequence terminators.  
209 0779 2 !-  
210 0780 2  
211 0781 2 INCR I FROM 0 TO 21 DO  
212 0782 2
```

```

: 213 0783 4      IF (.MY_C EQL .KEY_PAD [.I])
: 214 0784 3      THEN
: 215 0785 4      BEGIN
: 216 0786 4      !+
: 217 0787 4      !- The terminator was found, return it's equivalent.
: 218 0788 4      !-
: 219 0789 4      MY_C = K_KPAD_BASE + .I;
: 220 0790 4      EXITLOOP;
: 221 0791 3      END;
: 222 0792 3
: 223 0793 2      END;
: 224 0794 2
: 225 0795 2      !+
: 226 0796 2      !- Return the coded character.
: 227 0797 2
: 228 0798 2      .C = .MY_C;
: 229 0799 2      RETURN (T);
: 230 0800 1      END;

```

! of routine EDT\$\$TRN_KPADK

```

.TITLE EDT$KEYTRNCHR EDT$KEYTRNCHR - translate keypad
       key
.IDENT  \V04-000\
.PSECT  _EDT$CODE,NOWRT, SHR, PIC,2

```

```

43 42 41 52 51 79 78 77 76 75 74 73 72 71 70 0000 P.AAA: .ASCII \pqrstuvwxyzQRABCDnSmLPM\
      4D 50 6C 6D 53 6E 44 0000F

```

```

KEY_PAD=
.EXTRN P.AAA
       EDT$$TI_INPCH, EDT$$B_CHAR_INFO

```

```

       0004 00000
       SE    04  C2 00002
       52   D4 00005
       5E   DD 00007 1$:
00000000G 00 01  FB 00009
       50   D5 00010
       70   13 00012
       6E   D0 00014
       51 00000000G0040 9A 00017
       FO   8F    51  91 0001F
       13   12 00023
       52   0A  C4 00025
       52   DO A042 9E 00028
00000063 8F    52  D1 0002D
       02   15 00034
       52   D4 00036
       3F   50  D1 00038 2$:
0000004F 8F    CA  13 0003B
       50   D1 0003D
       C1   13 00044
0000005B 8F    50  D1 00046
       B8   13 0004D
       FO   8F    51  91 0004F
       B2   13 00053
0000007E 8F    50  D1 00055
       50   D1 00055

```

```

.ENTRY EDT$$TRN_KPADK, Save R2
SUBL2  #4, SP
CLRL   FUN_VAL
PUSHL  SP
CALLS  #1, EDT$$TI_INPCH
TSTL   R0
BEQL   7$
MOVL   MY_C, R0
MOVZBL EDT$$B_CHAR_INFO[R0], R1
CMPB   R1, #240
BNEQ   2$
MULL2  #10, FUN_VAL
MOVAB  -48(R0)[FUN_VAL], FUN_VAL
CMPL   FUN_VAL, #99
BLEQ   2$
CLRL   FUN_VAL
CMPL   R0, #63
BEQL   1$
CMPL   R0, #79
BEQL   1$
CMPL   R0, #91
BEQL   1$
CMPB   R1, #240
BEQL   1$
CMPL   R0, #126

```

```

: 0671
: 0722
: 0731
: 0736
: 0742
: 0743
: 0745
: 0752
: 0753
: 0754
: 0758
: 0770

```

EDT\$KEYTRNCHR
V04-000

EDT\$KEYTRNCHR - translate keypad key
EDT\$STRN_KPADK - translate a keypad key

F 12
16-Sep-1984 00:46:06
14-Sep-1984 12:23:30

VAX-11 Bliss-32 V4.0-742
[EDT.SRC]KEYTRNCHR.BLI;1

Page 6
(3)

EDT'
V04

			07	12	0005C		BNEQ	3\$			
		6E	0190	C2	9E 0005E		MOVAB	400(R2), MY_C		0772	
				17	11 00063		BRB	6\$			
				50	D4 00065	3\$:	CLRL	I		0781	
6E	FF7C CF40		08	00	ED 00067	4\$:	CMPZV	#0, #8, KEY_PAD[I], MY_C		0783	
				07	12 0006F		BNEQ	5\$			
		6E	012C	C0	9E 00071		MOVAB	300(R0), MY_C		0789	
				04	11 00076		BRB	6\$		0785	
	EB		50	15	F3 00078	5\$:	AOBLEQ	#21, I, 4\$		0783	
		04	BC	6E	D0 0007C	6\$:	MOVL	MY_C, @C		0798	
			50	01	D0 00080		MOVL	#1, R0		0799	
					04 00083		RET				
				50	D4 00084	7\$:	CLRL	R0		0800	
				04	00086		RET				

: Routine Size: 135 bytes, Routine Base: _EDT\$CODE + 0016

: 231 0801 1
: 232 0802 1 !<BLF/PAGE>

EDT\$KEYTRNCHR
V04-000

EDT\$KEYTRNCHR - translate keypad key
EDT\$\$TRN_KPADK - translate a keypad key

G 12
16-Sep-1984 00:46:06
14-Sep-1984 12:23:30

VAX-11 Bliss-32 V4.0-742
[EDT.SRC]KEYTRNCHR.BLI;1

Page 7
(4)

EDT\$
V04

: 234 0803 1 END
: 235 0804 1
: 236 0805 0 ELUDOM

. of module EDT\$KEYTRNCHR

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	157	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	0	0	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	3	8	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\$:KEYTRNCHR/OBJ=OBJ\$:KEYTRNCHR MSRCS\$:KEYTRNCHR.BLI/UPDATE=(ENHS\$:KEYTRNCHR)

: Size: 135 code + 22 data bytes
: Run Time: 00:12.8
: Elapsed Time: 00:15.8
: Lines/CPU Min: 3782
: Lexemes/CPU-Min: 10675
: Memory Used: 80 pages
: Compilation Complete

The image displays a grid of 144 small, illegible document thumbnails arranged in 12 rows and 12 columns. Each thumbnail appears to be a page from a technical manual or a list of files, with some text visible but mostly obscured by low resolution and blurring. The thumbnails are arranged in a regular grid pattern across the page.

KEYDEFKEY LIS
KEYFMTSTR LIS

KEYPADDEF LIS

LDIVISION LIS

KEYCHR LIS

KEYIMMNP LIS

LDEFK LIS

LFILL LIS

KEYCOM LIS

KEYPUTCHR LIS

LDELETE LIS

LCLEAR LIS

LCOUNT LIS

KEYPAD LIS

LDEFM LIS

LCFLNO LIS

KEYTRNCHR LIS