

.....

```

KK      KK  EEEEEEEEE  YY      YY  CCCCCCCC  000000  MM      MM
KK      KK  EEEEEEEEE  YY      YY  CCCCCCCC  000000  MM      MM
KK      KK  EE          YY      YY  CC          00      00  MMMM  MMMM
KK      KK  EE          YY      YY  CC          00      00  MMMM  MMMM
KK      KK  EE          YY      YY  CC          00      00  MM  MM  MM
KK      KK  EE          YY      YY  CC          00      00  MM  MM  MM
KK      KK  EE          YY      YY  CC          00      00  MM  MM  MM
KK      KK  EE          YY      YY  CC          00      00  MM  MM  MM
KK      KK  EE          YY      YY  CC          00      00  MM  MM  MM
KK      KK  EE          YY      YY  CC          00      00  MM  MM  MM
KK      KK  EEEEEEEEE  YY      YY  CCCCCCCC  000000  MM      MM
KK      KK  EEEEEEEEE  YY      YY  CCCCCCCC  000000  MM      MM

```

```

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
LLLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLLL IIIIII  SSSSSSSS

```

```

1 0001 0 %TITLE 'EDT$KEYCOM - get a keypad command'
2 0002 0 MODULE EDT$KEYCOM ( ! Get a keypad command
3 0003 0 IDENT = 'V04-000' ! File: KEYCOM.BLI Edit: JBS1011
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 Get a keypad command.
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$$GET_KPADCMD from module KEYTRAN.
46 0046 1 1-002 - Regularize headers. JBS 09-Mar-1981
47 0047 1 1-003 - Add return values. JBS 02-Oct-1981
48 0048 1 1-004 - Check one more return value, and add a variable to call to
49 0049 1 EDT$$KPAD_INP. STS 21-Oct-1981
50 0050 1 1-005 - Set a flag if control C actually aborts something. JBS 25-May-1982
51 0051 1 1-006 - In NOKEYPAD mode copy control characters into the buffer. JBS 07-Jun-1982
52 0052 1 1-007 - Pass flag to EDT$$NXT_CMDCH so that it will accept repeat counts. STS 16-Jun-1982
53 0053 1 1-008 - Add reverse video to nokeypad command input. SMB 24-Jun-1982
54 0054 1 1-009 - New implementation of defined keys. JBS 12-Aug-1982
55 0055 1 1-010 - Add another control C check since a control C can occur
56 0056 1 in edt$$trn_kstr. STS 24-Nov-1982
57 0057 1 1-011 - Don't call EDT$$ERA_MSGLN unnecessarily. JBS 20-Jan-1983

```



```

: 61      0060 1 %SBTTL 'Declarations'
: 62      0061 1
: 63      0062 1 : TABLE OF CONTENTS:
: 64      0063 1
: 65      0064 1
: 66      0065 1 REQUIRE 'EDTSRC:TRAROUNAM';
: 67      0504 1
: 68      0505 1 FORWARD ROUTINE
: 69      0506 1     EDT$$GET_KPADCMD;           ! Get a keypad command
: 70      0507 1
: 71      0508 1
: 72      0509 1 : INCLUDE FILES:
: 73      0510 1
: 74      0511 1
: 75      0512 1 REQUIRE 'EDTSRC:EDTREQ';
: 76      0647 1
: 77      0648 1 LIBRARY 'EDTSRC:KEYPADDEF';
: 78      0649 1
: 79      0650 1
: 80      0651 1 : MACROS:
: 81      0652 1
: 82      0653 1 :     NONE
: 83      0654 1
: 84      0655 1 : EQUATED SYMBOLS:
: 85      0656 1
: 86      0657 1 :     NONE
: 87      0658 1
: 88      0659 1 : OWN STORAGE:
: 89      0660 1
: 90      0661 1 :     NONE
: 91      0662 1
: 92      0663 1 : EXTERNAL REFERENCES:
: 93      0664 1
: 94      0665 1 :     In the routine

```

```

: 96 0666 1 %SBTTL 'EDTSSGET_KPADCMD - get a keypad command'
: 97 0667 1
: 98 0668 1 GLOBAL ROUTINE EDTSSGET_KPADCMD . Get a keypad command
: 99 0669 1 =
100 0670 1
101 0671 1 +-
102 0672 1 FUNCTIONAL DESCRIPTION:
103 0673 1
104 0674 1 Get a keypad command. Characters are read and translated until a complete
105 0675 1 command is seen. The characters are handled as follows:
106 0676 1
107 0677 1 Keypad and control characters are translated, and if they end in a '.' then the
108 0678 1 command is complete.
109 0679 1
110 0680 1 Other characters are treated as insertions and always complete.
111 0681 1
112 0682 1 FORMAL PARAMETERS:
113 0683 1
114 0684 1 NONE
115 0685 1
116 0686 1 IMPLICIT INPUTS:
117 0687 1
118 0688 1 EDTSST_CMD_BUF
119 0689 1 EDTSSA_CMD_BUF
120 0690 1 EDTSSG_KPAD
121 0691 1 EDTSSG_TIN ECHOFLG
122 0692 1 EDTSSG_MSGFLG
123 0693 1
124 0694 1 IMPLICIT OUTPUTS:
125 0695 1
126 0696 1 EDTSSA_CMD_END
127 0697 1 EDTSSG_CC_DONE
128 0698 1
129 0699 1 ROUTINE VALUE:
130 0700 1
131 0701 1 1 = ok, 0 = control C, 2 = end of journal file
132 0702 1
133 0703 1 SIDE EFFECTS:
134 0704 1
135 0705 1 NONE
136 0706 1
137 0707 1 --
138 0708 1
139 0709 2 BEGIN
140 0710 2
141 0711 2 EXTERNAL ROUTINE
142 0712 2 EDTSSC_REVID, ! Turn on reverse video for nokeypad commands
143 0713 2 EDTSSCHR_CC, ! Check for control C
144 0714 2 EDTSSERA_MSGLN : NOVALUE, ! Erase the message line
145 0715 2 EDTSSNXT_CMDCH, ! Get the next command character
146 0716 2 EDTSSTRN_KSTR, ! Build the command buffer
147 0717 2 EDTSSPUT_CMDCH : NOVALUE, ! Put a character in the command buffer
148 0718 2 EDTSSKPAD_INP; ! Auxiliary call to EDTSSTI_RDCMDLN
149 0719 2
150 0720 2 EXTERNAL
151 0721 2 EDTSST_CMD_BUF, ! Command buffer
152 0722 2 EDTSSA_CMD_BUF, ! Pointer to next char in command buffer

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153 0723 2      EDTSSA_CMD_END,      ! Pointer to end of info in command buffer
154 0724 2      EDTSSG_KPAD,      ! Keypad mode flag
155 0725 2      EDTSSG_CC_DONE,  ! Set to 1 if control C actually aborts something
156 0726 2      EDTSSG_TIN_ECHOFLG,
157 0727 2      EDTSSG_MSGFLG;
158 0728 2
159 0729 2      LOCAL
160 0730 2      C
161 0731 2      RES TERM,
162 0732 2      SUCCEED,
163 0733 2      KEYS_SEEN;
164 0734 2
165 0735 2      KEYS_SEEN = 0;
166 0736 2      +
167 0737 2      - Loop until command is complete.
168 0738 2
169 0739 2
170 0740 2      WHILE 1 DO
171 0741 2      BEGIN
172 0742 2      +
173 0743 2      - Get the next command character. If the command was aborted, return.
174 0744 2
175 0745 2      SUCCEED = EDTSSNXT_CMDCH (C, 1);
176 0746 2
177 0747 2      IF (.SUCCEED NEQ 1) THEN RETURN (.SUCCEED);
178 0748 2
179 0749 2      +
180 0750 2      - Check for control C and abort the command.
181 0751 2
182 0752 2
183 0753 2      IF EDTSSCHK_CC ()
184 0754 2      THEN
185 0755 2      BEGIN
186 0756 2      EDTSSA_CMD_END = EDTSST_CMD_BUF;
187 0757 2      4
188 0758 2      IF .KEYS_SEEN THEN EDTSSG_CC_DONE = 1;
189 0759 2      4
190 0760 2      RETURN (0);
191 0761 2      END;
192 0762 2
193 0763 2      KEYS_SEEN = 1;
194 0764 2      +
195 0765 2      - Erase the message line and make sure we are in reverse video mode
196 0766 2      if this is a nokeypad command
197 0767 2
198 0768 2
199 0769 2      IF ((.EDTSSG_MSGFLG NEQ 0) OR .EDTSSG_TIN_ECHOFLG) THEN EDTSSERA_MSGLN ();
200 0770 2
201 0771 2      IF ( NOT .EDTSSG_KPAD) THEN EDTSSSC_REVID ();
202 0772 2
203 0773 2      SELECTONEU .C OF
204 0774 2      SET
205 0775 2
206 0776 2      [0 TO 31] :
207 0777 2      +
208 0778 2      - Control character: if in keypad mode, translate it.
209 0779 2

```

```
210 0780 3
211 0781 3
212 0782 3 IF .EDTSSG_KPAD
213 0783 4 THEN
214 0784 4 BEGIN
215 0785 4 IF EDTSTRN_KSTR (.C, 1, 0) THEN RETURN (1);
216 0786 4
217 0787 4 END
218 0788 3 ELSE
219 0789 4 BEGIN
220 0790 4 !+
221 0791 4 !- In nokeypad mode, copy characters into the buffer.
222 0792 4 !-
223 0793 4
224 0794 4 IF (EDTSSKPAD_INP (.C, ASC_K_CR, RES_TERM) EQL 2) THEN RETURN (2);
225 0795 4
226 0796 4 EDTSSA_CMD_END = .EDTSSA_CMD_BUF;
227 0797 4 RETURN (1);
228 0798 3 END;
229 0799 3
230 0800 3 [ASC_K_DEL, K_KPAD_BASE TO K_KEY_MAX] :
231 0801 3 !+
232 0802 3 !- DEL, keypad or function key: always translate.
233 0803 3 !-
234 0804 3
235 0805 3 IF EDTSTRN_KSTR (.C, 1, 0) THEN RETURN (1);
236 0806 3
237 0807 3 [OTHERWISE] :
238 0808 3 !+
239 0809 3 !- Insertion character: make the command Ic^Z.
240 0810 3 !-
241 0811 3
242 0812 3 IF .EDTSSG_KPAD
243 0813 4 THEN
244 0814 4 BEGIN
245 0815 4 EDTSSPUT_CMDCH (XC'I', 0);
246 0816 4 EDTSSPUT_CMDCH (.C, 0);
247 0817 4 EDTSSPUT_CMDCH (ASC K_CTRL_Z, 0);
248 0818 4 EDTSSA_CMD_END = .EDTSSA_CMD_BUF;
249 0819 4 RETURN (1);
250 0820 4 END
251 0821 3 ELSE
252 0822 4 BEGIN
253 0823 4 !+
254 0824 4 !- In nokeypad mode, copy characters into the buffer.
255 0825 4 !-
256 0826 4
257 0827 4 IF (EDTSSKPAD_INP (.C, ASC_K_CR, RES_TERM) EQL 2) THEN RETURN (2);
258 0828 4
259 0829 4 EDTSSA_CMD_END = .EDTSSA_CMD_BUF;
260 0830 4 RETURN (1);
261 0831 3 END;
262 0832 3
263 0833 3 TES;
264 0834 3
265 0835 3 !+
266 0836 3 !- Check for control C and abort the command.
```



```

: 267 0837 3 !-
: 268 0838 3
: 269 0839 3 IF EDTSSCHK_CC ( )
: 270 0840 3 THEN
: 271 0841 4 BEGIN
: 272 0842 4 EDTSSA_CMD_END = EDT$ST_CMD_BUF;
: 273 0843 4
: 274 0844 4 IF .KEYS_SEEN THEN EDTSSG_CC_DONE = 1;
: 275 0845 4
: 276 0846 4 RETURN (0);
: 277 0847 3 END;
: 278 0848 3
: 279 0849 2 END;
: 280 0850 2 RETURN (1);
: 281 0851 2
: 282 0852 1 END;

```

! of routine EDTSSGET_KPADCMD

.TITLE EDTSKEYCOM EDTSKEYCOM - get a keypad command
.IDENT \V04-000\

.EXTRN EDTSSC REVID, EDTSSCHK_CC
.EXTRN EDTSSERA_MSGLN, EDTSSNXT_CMDCH
.EXTRN EDTSTRN_KSTR, EDT\$PUT_CMDCH
.EXTRN EDTSSKPAD_INP, EDT\$ST_CMD_BUF
.EXTRN EDTSSA_CMD_BUF, EDTSSA_CMD_END
.EXTRN EDTSSG_KPAD, EDTSSG_CC_DONE
.EXTRN EDTSSG_TIN_ECHOFLG
.EXTRN EDTSSG_MSGFLG

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

			07FC 00000	.ENTRY	EDTSSGET_KPADCMD, Save R2,R3,R4,R5,R6,R7,-	0668
					R8,R9,R10	
	5A	00000000G	00 9E 00002	MOVAB	EDTSSA_CMD_BUF, R10	
	59	00000000G	00 9E 00009	MOVAB	EDTSSKPAD_INP, R9	
	58	00000000G	00 9E 00010	MOVAB	EDTSSCHK_CC, R8	
	57	00000000G	00 9E 00017	MOVAB	EDT\$PUT_CMDCH, R7	
	56	00000000G	00 9E 0001E	MOVAB	EDTSSA_CMD_END, R6	
	55	00000000G	00 9E 00025	MOVAB	EDTSSG_KPAD, R5	
	5E		08 C2 0002C	SUBL2	#8, SP	
			53 D4 0002F	CLRL	KEYS_SEEN	0735
			01 DD 00031	PUSHL	#1	0745
		04	AE 9F 00033	PUSHAB	C	
00000000G	00		02 FB 00036	CALLS	#2, EDTSSNXT_CMDCH	
	54		50 D0 0003D	MOVL	R0, SUCCEED	
	01		54 D1 00040	CMPL	SUCCEED, #1	0747
			04 13 00043	BEQL	2\$	
	50		54 D0 00045	MOVL	SUCCEED, R0	
			04 00048	RET		
	68		00 FB 00049	CALLS	#0, EDTSSCHK_CC	0753
	03		50 E9 0004C	BLBC	R0, 3\$	
		00AC	31 0004F	BRW	16\$	
	53		01 D0 00052	MOVL	#1, KEYS_SEEN	0763
		00000000G	00 D5 00055	TSTL	EDTSSG_MSGFLG	0769
			07 12 0005B	BNEQ	4\$	
	07	00000000G	00 E9 0005D	BLBC	EDTSSG_TIN_ECHOFLG, 5\$	

00000000G	00	00	FB	00064	4\$:	CALLS	#0, EDTSSERA_MSGLN	:		
	07	65	E8	0006B	5\$:	BLBS	EDTSSG_KPAD, 6\$:	0771	
00000000G	00	00	FB	0006E		CALLS	#0, EDTSSSC_REVID	:		
	52	6E	D0	00075	6\$:	MOVL	C, R2	:	0773	
	1F	52	D1	00078		CMPL	R2, #31	:	0776	
		28	1A	0007B		BGTRU	10\$:		
	11	65	E9	0007D		BLBC	EDTSSG_KPAD, 8\$:	0781	
	7E	01	7D	00080	7\$:	MOVQ	#1, -(SP)	:	0785	
		52	DD	00083		PUSHL	R2	:		
00000000G	00	03	FB	00085		CALLS	#3, EDTSSSTRN_KSTR	:		
	66	50	E9	0008C		BLBC	R0, 15\$:		
		12	11	0008F		BRB	9\$:		
		04	AE	9F	00091	8\$:	PUSHAB	RES_TERM	:	0794
		0D	DD	00094		PUSHL	#13	:		
		52	DD	00096		PUSHL	R2	:		
	69	03	FB	00098		CALLS	#3, EDTSSKPAD_INP	:		
	02	50	D1	0009B		CMPL	R0, #2	:		
		4A	13	0009E		BEQL	13\$:		
	66	6A	D0	000A0		MOVL	EDTSSA_CMD_BUF, EDTSSA_CMD_END	:	0796	
		6C	11	000A3	9\$:	BRB	17\$:	0797	
0000007F	8F	52	D1	000A5	10\$:	CMPL	R2, #127	:	0800	
		D2	13	000AC		BEQL	7\$:		
0000012C	8F	52	D1	000AE		CMPL	R2, #300	:		
		09	1F	000B5		BLSSU	11\$:		
000003E7	8F	52	D1	000B7		CMPL	R2, #999	:		
		C0	1B	000BE		BLEQU	7\$:		
	18	65	E9	000C0	11\$:	BLBC	EDTSSG_KPAD, 12\$:	0812	
		7E	D4	000C3		CLRL	-(SP)	:	0815	
	7E	49	8F	9A	000C5	MOVZBL	#73, -(SP)	:		
	67	02	FB	000C9		CALLS	#2, EDTSSPUT_CMDCH	:		
		7E	D4	000CC		CLRL	-(SP)	:	0816	
		52	DD	000CE		PUSHL	R2	:		
	67	02	FB	000D0		CALLS	#2, EDTSSPUT_CMDCH	:		
	7E	1A	7D	000D3		MOVQ	#26, -(SP)	:	0817	
	67	02	FB	000D6		CALLS	#2, EDTSSPUT_CMDCH	:		
		13	11	000D9		BRB	14\$:	0822	
		04	AE	9F	000DB	12\$:	PUSHAB	RES_TERM	:	0827
		0D	DD	000DE		PUSHL	#13	:		
		52	DD	000E0		PUSHL	R2	:		
	69	03	FB	000E2		CALLS	#3, EDTSSKPAD_INP	:		
	02	50	D1	000E5		CMPL	R0, #2	:		
		04	12	000E8		BNEQ	14\$:		
	50	02	D0	000EA	13\$:	MOVL	#2, R0	:		
		04	000ED			RET		:		
	50	01	D0	000EE	14\$:	MOVL	#1, R0	:	0830	
	66	6A	D0	000F1		MOVL	EDTSSA_CMD_BUF, EDTSSA_CMD_END	:	0818	
		04	000F4			RET		:	0822	
	68	00	FB	000F5	15\$:	CALLS	#0, EDTSSCHK_CC	:	0839	
	03	50	E8	000F8		BLBS	R0, 16\$:		
		FF	33	31	000FB	BRW	1\$:		
	66	00000000G	00	9E	000FE	16\$:	MOVAB	EDTSSCMD_BUF, EDTSSA_CMD_END	:	0842
	0D	53	E9	00105		BLBC	KEYS_SEEN, 18\$:	0844	
00000000G	00	01	D0	00108		MOVL	#1, EDTSSG_CC_DONE	:		
		04	11	0010F		BRB	18\$:	0846	
	50	01	D0	00111	17\$:	MOVL	#1, R0	:	0851	
		04	00114			RET		:		
		50	D4	00115	18\$:	CLRL	R0	:	0852	

EDTSKEYCOM
V04-000

EDTSKEYCOM - get a keypad command
EDTSSGET_KPADCMD - get a keypad command

B 7
16-Sep-1984 00:42:18
14-Sep-1984 12:23:21

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]KEYCOM.BLI;1 Page 9 (3)

EDT
V04

04 00117 RET ;

; Routine Size: 280 bytes, Routine Base: _EDT\$CODE + 0000

; 283 0853 1
; 284 0854 1 !<BLF/PAGE>

; R

;
;

EDTSKEYCOM
V04-000

EDTSKEYCOM - get a keypad command
EDTSSGET_KPADCMD - get a keypad command

C 7
16-Sep-1984 00:42:18
14-Sep-1984 12:23:21

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]KEYCOM.BLI;1

Page 10
(4)

EDT
V04

: 286 0855 1 END
: 287 0856 1
: 288 0857 0 ELUDOM

! of module EDTSKEYCOM

PSECT SUMMARY

Name	Bytes	Attributes
_EDTSCODE	280	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	3	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	2	5	7	00:00.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS\$:KEYCOM/OBJ=OBJ\$:KEYCOM MSRC\$:KEYCOM.BLI/UPDATE-(ENH\$:KEYCOM)

: Size: 280 code + 0 data bytes
: Run Time: 00:16.4
: Elapsed Time: 00:19.8
: Lines/CPU Min: 3127
: Lexemes/CPU-Min: 8405
: Memory Used: 110 pages
: Compilation Complete

S
R
E
L
M
C

