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```

0001 0 %TITLE 'EDT$DEFKEY - define a key'
0002 0 MODULE EDT$DEFKEY ( . Define a key
0003 0 IDENT = 'V04-000' . File: DEFKEY.BLI Edit: JBS1005
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1 *****
0008 1 *
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0026 1 *
0027 1 *
0028 1 *****
0029 1
0030 1
0031 1 +-
0032 1 FACILITY: EDT -- The DEC Standard Editor
0033 1
0034 1 ABSTRACT:
0035 1
0036 1 Define a key
0037 1
0038 1 ENVIRONMENT: Runs at any access mode - AST reentrant
0039 1
0040 1 AUTHOR: Bob Kushlis, CREATION DATE: 6-AUG-1979
0041 1
0042 1 MODIFIED BY:
0043 1
0044 1 1-001 - Original. DJS 18-FEB-1981. This module was created by
0045 1 extracting routine EDT$$DEFK from module EDTCTR.
0046 1 1-002 - Regularize headers. JBS 04-Mar-1981
0047 1 1-003 - Implement virtual memory deallocation. TMV 6-Aug-81
0048 1 1-004 - Return an error code to distinguish the types of errors. JBS 18-May-1982
0049 1 1-005 - New implementation of defined keys. JBS 13-Aug-1982
0050 1 --
0051 1

```

EDT\$DEFKEY  
V04-000

EDT\$DEFKEY - define a key  
Declarations

C 2  
16-Sep-1984 00:16:52  
14-Sep-1984 12:22:53

VAX-11 Bliss-32 V4.0-742  
DISK\$VMMASTER:[EDT.SRC]DEFKEY.BLI;1 Page 2  
(2)

```
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$SRC:TRAROUNAM';  
59 0496 1  
60 0497 1 FORWARD ROUTINE  
61 0498 1 EDT$DEFK;  
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  
72 0643 1 MACROS:  
73 0644 1  
74 0645 1 NONE  
75 0646 1  
76 0647 1 EQUATED SYMBOLS:  
77 0648 1  
78 0649 1 NONE  
79 0650 1  
80 0651 1 OWN STORAGE:  
81 0652 1  
82 0653 1 NONE  
83 0654 1  
84 0655 1 EXTERNAL REFERENCES:  
85 0656 1  
86 0657 1 In the routine
```

```
88 0658 1 %SBTTL 'EDT$$DEFK - define a key'
89 0659 1
90 0660 1 GLOBAL ROUTINE EDT$$DEFK (
91 0661 1     KEY
92 0662 1     STRING,
93 0663 1     LEN
94 0664 1     ) =
95 0665 1
96 0666 1 !++
97 0667 1 ! FUNCTIONAL DESCRIPTION:
98 0668 1
99 0669 1     Define a key. It is entered in the table of defined keys
100 0670 1     so that EDT$$FIND_KEY can find it.
101 0671 1
102 0672 1 ! FORMAL PARAMETERS:
103 0673 1
104 0674 1     KEY             Key number to define
105 0675 1
106 0676 1     STRING          Address of new definition string
107 0677 1
108 0678 1     LEN             Length of that definition
109 0679 1
110 0680 1 ! IMPLICIT INPUTS:
111 0681 1
112 0682 1     NONE
113 0683 1
114 0684 1 ! IMPLICIT OUTPUTS:
115 0685 1
116 0686 1     EDT$$A_TRN_TBL
117 0687 1
118 0688 1 ! ROUTINE VALUE:
119 0689 1
120 0690 1     1 = key defined
121 0691 1     any even number - an error code to be printed using EDT$$OUT_MSG.
122 0692 1
123 0693 1 ! SIDE EFFECTS:
124 0694 1
125 0695 1     Allocates dynamic memory for the key definition
126 0696 1
127 0697 1 !--
128 0698 1
129 0699 2     BEGIN
130 0700 2
131 0701 2     EXTERNAL ROUTINE
132 0702 2         FDT$$TST_BADK,           ! Test for an undefinable key
133 0703 2         EDT$$SCAN_KDEF,        ! Cancel an existing key definition, if any
134 0704 2         EDT$$ALO_HEAP;         ! Allocate heap storage
135 0705 2
136 0706 2     EXTERNAL
137 0707 2         EDT$$A_TRN_TBL : VECTOR;   ! The keypad translation table
138 0708 2
139 0709 2     MESSAGES ((KEYNOTDEF, INSMEM));
140 0710 2
141 0711 2     LOCAL
142 0712 2         KEY_PTR : REF BLOCK [, BYTE] FIELD (KEY_DEF_FIELD),
143 0713 2         STATUS;
144 0714 2
```

EDT\$DEFKEY  
V04-000

EDT\$DEFKEY - define a key  
EDT\$\$DEFK - define a key

E 2  
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DISK\$VMSMASTER:[EDT.SRC]DEFKEY.BLI;1 Page 4  
(3)

```

145 0715 2 IF EDT$$TST_BADK (.KEY) THEN RETURN (EDT$_KEYNOTDEF);
146 0716 2
147 0717 2 !+
148 0718 2 Cancel any existing definition of the key.
149 0719 2 !-
150 0720 2 STATUS = EDT$$SCAN_KDEF (.KEY);
151 0721 2
152 0722 2 IF ( NOT .STATUS) THEN RETURN (.STATUS);
153 0723 2
154 0724 2 !+
155 0725 2 Allocate storage to hold the key definition.
156 0726 2 !-
157 0727 2
158 0728 2 IF ( NOT EDT$$ALO_HEAP (%REF (.LEN + KEY_DEF_OVERHEAD), KEY_PTR)) THEN RETURN (EDT$_INSMEM);
159 0729 2
160 0730 2 !+
161 0731 2 Load up the key definition block and store in the table.
162 0732 2 !-
163 0733 2 KEY_PTR [KEY_DEF_NEXT] = .EDT$$A_TRN_TBL [.KEY MOD K_KPAD_HASHSIZ];
164 0734 2 KEY_PTR [KEY_DEF_KEY] = .KEY;
165 0735 2 KEY_PTR [KEY_DEF_LEN] = .LEN;
166 0736 2 EDT$$A_TRN_TBL [.KEY MOD K_KPAD_HASHSIZ] = .KEY_PTR;
167 0737 2 EDT$$COPY_MEM (.LEN, .STRING, CH$PTR (KEY_PTR [KEY_DEF_TEXT]));
168 0738 2 RETURN (T);
169 0739 1 END;

```

! of routine EDT\$\$DEFK

```

.TITLE EDT$DEFKEY EDT$DEFKEY - define a key
.IDENT \V04-000\

.EXTRN EDT$$TST_BADK, EDT$$SCAN_KDEF
.EXTRN EDT$$ALO_HEAP, EDT$$A_TRN_TBL
.EXTRN EDT$_KEYNOTDEF, EDT$_INSMEM

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

```

				003C 00000	.ENTRY EDT\$\$DEFK, Save R2,R3,R4,R5	: 0660
	5E		08	C2 00002	SUBL2 #8, SP	: 0715
		04	AC	DD 00005	PUSHL KEY	
	00000000G	00	01	FB 00008	CALLS #1, EDT\$\$TST_BADK	
		08	50	E9 0000F	BLBC R0, 1\$	
		50	00000000G	8F D0 00012	MOVL #EDT\$_KEYNOTDEF, R0	
				04 00019	RET	
		04	AC	DD 0001A 1\$:	PUSHL KEY	: 0720
	00000000G	00	01	FB 0001D	CALLS #1, EDT\$\$SCAN_KDEF	
		53	50	E9 00024	BLBC STATUS, 3\$	: 0722
		04	AE	9F 00027	PUSHAB KEY_PTR	: 0728
04	AE	0C	AC	07 C1 0002A	ADDL3 #7, -LEN, 4(SP)	
		04	AE	9F 00030	PUSHAB 4(SP)	
	00000000G	00	02	FB 00033	CALLS #2, EDT\$\$ALO_HEAP	
		08	50	E8 0003A	BLBS R0, 2\$	
		50	00000000G	8F D0 0003D	MOVL #EDT\$_INSMEM, R0	
				04 00044	RET	
		51	04	AE D0 00045 2\$:	MOVL KEY_PTR, R1	: 0733
7E	00	04	AC	01 7A 00049	EMUL #1, -KEY, #0, -(SP)	
50	50		8E	000000C7 8F 7B 0004F	EDIV #199, (SP)+, R0, R0	
		50	00000000G0040	DE 00058	MOVAL EDT\$\$A_TRN_TBL[R0], R0	

EDT\$DEFKEY  
V04-000

EDT\$DEFKEY - define a key  
EDT\$\$DEFK - define a key

F 2  
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		61		60	D0	00060	MOVL	(R0), (R1)	:	
	04	A1	04	AC	B0	00063	MOVW	KEY, 4(R1)	:	0734
	06	A1	0C	AC	90	00068	MOVB	LEN, 6(R1)	:	0735
		60		51	D0	0006D	MOVL	R1, (R0)	:	0736
07	A1	08	0C	AC	28	00070	MOV3	LEN, @STRING, 7(R1)	:	0737
		50		01	D0	00077	MOVL	#1, R0	:	0738
				04	0007A	3\$:	RET		:	0739

: Routine Size: 123 bytes, Routine Base: \_EDT\$CODE + 0000

: 170 0740 1  
: 171 0741 1 !<BLF/PAGE>

EDT\$DEFKEY  
V04-000

EDT\$DEFKEY - define a key  
EDT\$\$DEFK - define a key

G 2  
16-Sep-1984 00:16:52  
14-Sep-1984 12:22:53

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

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(4)

: 173 0742 1 END  
: 174 0743 1  
: 175 0744 0 ELUDOM

! of module EDT\$DEFKEY

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	123	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	1	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	7	20	7	00:00.1

COMMAND QUALIFIERS

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

: Size: 123 code + 0 data bytes  
: Run Time: 00:11.5  
: Elapsed Time: 00:14.4  
: Lines/CPU Min: 3868  
: Lexemes/CPU-Min: 12306  
: Memory Used: 75 pages  
: Compilation Complete



