

|                  |                |                  |
|------------------|----------------|------------------|
| EEEEEEEEEEEEEEEE | DDDDDDDDDDDDDD | TTTTTTTTTTTTTTTT |
| EEEEEEEEEEEEEEEE | DDDDDDDDDDDDDD | TTTTTTTTTTTTTTTT |
| EEEEEEEEEEEEEEEE | DDDDDDDDDDDDDD | TTTTTTTTTTTTTTTT |
| EEE              | DDD            | TTT              |
| EEE              | DDD            | TTT              |
| EEE              | DDD            | TTT              |
| EEE              | DDD            | TTT              |
| EEE              | DDD            | TTT              |
| EEE              | DDD            | TTT              |
| EEEEEEEEEEEEEE   | DDD            | TTT              |
| EEEEEEEEEEEEEE   | DDD            | TTT              |
| EEEEEEEEEEEEEE   | DDD            | TTT              |
| EEE              | DDD            | TTT              |
| EEE              | DDD            | TTT              |
| EEE              | DDD            | TTT              |
| EEE              | DDD            | TTT              |
| EEE              | DDD            | TTT              |
| EEE              | DDD            | TTT              |
| EEEEEEEEEEEEEEEE | DDDDDDDDDDDDDD | TTT              |
| EEEEEEEEEEEEEEEE | DDDDDDDDDDDDDD | TTT              |
| EEEEEEEEEEEEEEEE | DDDDDDDDDDDDDD | TTT              |

```
KK      KK      EEEEEEEEE  YY      YY      PPPPPPP  AAAAAA  DDDDDDD  DDDDDDD  EEEEEEEEE  FFFFFFFF
KK      KK      EEEEEEEEE  YY      YY      PPPPPPP  AAAAAA  DDDDDDD  DDDDDDD  EEEEEEEEE  FFFFFFFF
KK      KK      EE          YY      YY      PP      PP  AA      AA  DD      DD  DD      DD  EE          FF
KK      KK      EE          YY      YY      PP      PP  AA      AA  DD      DD  DD      DD  EE          FF
KK      KK      EE          YY      YY      PP      PP  AA      AA  DD      DD  DD      DD  EE          FF
KK      KK      EE          YY      YY      PP      PP  AA      AA  DD      DD  DD      DD  EE          FF
KK      KK      EE          YY      YY      PP      PP  AA      AA  DD      DD  DD      DD  EE          FF
KK      KK      EEEEEEEEE  YY      YY      PPPPPPP  AAAAAA  DD      DD  DD      DD  EEEEEEEEE  FFFFFFFF
KK      KK      EEEEEEEEE  YY      YY      PPPPPPP  AAAAAA  DD      DD  DD      DD  EEEEEEEEE  FFFFFFFF
KK      KK      EE          YY      YY      PP      PP  AA      AA  DD      DD  DD      DD  EE          FF
KK      KK      EE          YY      YY      PP      PP  AA      AA  DD      DD  DD      DD  EE          FF
KK      KK      EE          YY      YY      PP      PP  AA      AA  DD      DD  DD      DD  EE          FF
KK      KK      EEEEEEEEE  YY      YY      PP      PP  AA      AA  DDDDDDD  DDDDDDD  EEEEEEEEE  FF
KK      KK      EEEEEEEEE  YY      YY      PP      PP  AA      AA  DDDDDDD  DDDDDDD  EEEEEEEEE  FF
```

```
....
....
....
....
```

```
LL      IIIIII  SSSSSSS
LL      IIIIII  SSSSSSS
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
LLLLLLLL  IIIIII  SSSSSSS
LLLLLLLL  IIIIII  SSSSSSS
```



D 11  
15-Sep-1984 23:01:34  
15-Sep-1984 22:44:08

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[EDT.SRC]KEYPADDEF.REQ;1 Page 1  
(1)

EDT  
V04-

0001 0  
0002 0  
0003 0  
0004 0  
0005 0  
0006 0  
0007 0  
0008 0  
0009 0  
0010 0  
0011 0  
0012 0  
0013 0  
0014 0  
0015 0  
0016 0  
0017 0  
0018 0  
0019 0  
0020 0  
0021 0  
0022 0  
0023 0  
0024 0  
0025 0  
0026 0  
0027 0  
0028 0  
0029 0  
0030 0  
0031 0  
0032 0

```
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+
This file, KEYPADDEF.REQ, defines symbols and structures for the keypad,
and for definable keys in general.

Revision history:

1-001 - Original. JBS 13-Aug-1982
1-002 - Provide a large hash table on VAX/VMS. JBS 17-Aug-1982
<BLF/PAGE>
```

```
0033 0
0034 0
0035 0
0036 0
0037 0
0038 0
0039 0
0040 0
0041 0
0042 0
0043 0
0044 0
0045 0
0046 0
0047 0
0048 0
0049 0
0050 0
0051 0
0052 0
0053 0
0054 0
0055 0
0056 0
0057 0
0058 0
0059 0
0060 0
0061 0
0062 0
0063 0
0064 0
0065 0
0066 0
0067 0
0068 0
0069 0
0070 0
0071 0
0072 0
0073 0
0074 0
0075 0
0076 0
0077 0
0078 0
0079 0
0080 0
0081 0
0082 0
0083 0
0084 0
0085 0
0086 0
0087 0
0088 0
0089 0
```

```
+ Define symbols for the values that correspond to the keys.
Values 0 to 127 are ASCII characters, 128 to 255 are the
DEC Multinational Supplementry set.
```

LITERAL

```
K_KPAD_BASE = 300,      ! Base for the 22 keypad keys
K_FUN_BASE = 400,       ! Base for the 100 function keys
K_MAX_FUN_VAL = 99,     ! Maximum function key value
K_GOLD_BASE = 500,      ! Add for GOLD prefix
K_KEY_MAX = 999;        ! Maximum key value
```

```
+ Define the special keypad keys.
These are the numeric values used for the definable keys.
```

LITERAL

```
K_0 = K_KPAD_BASE + 0,
K_1 = K_KPAD_BASE + 1,
K_2 = K_KPAD_BASE + 2,
K_3 = K_KPAD_BASE + 3,
K_4 = K_KPAD_BASE + 4,
K_5 = K_KPAD_BASE + 5,
K_6 = K_KPAD_BASE + 6,
K_7 = K_KPAD_BASE + 7,
K_8 = K_KPAD_BASE + 8,
K_9 = K_KPAD_BASE + 9,
K_PF2 = K_KPAD_BASE + 10,
K_PF3 = K_KPAD_BASE + 11,
K_UP = K_KPAD_BASE + 12,
K_DOWN = K_KPAD_BASE + 13,
K_RIGHT = K_KPAD_BASE + 14,
K_LEFT = K_KPAD_BASE + 15,
K_DOT = K_KPAD_BASE + 16,
K_PF4 = K_KPAD_BASE + 17,
K_MINUS = K_KPAD_BASE + 18,
K_COMMA = K_KPAD_BASE + 19,
K_PF1 = K_KPAD_BASE + 20,
K_ENTER = K_KPAD_BASE + 21;
```

```
+ The following structure holds a defined key.
```

FIELD

```
KEY_DEF_FIELD =
SET
KEY_DEF_NEXT = [0, 0, %BPADDR, 0], ! Pointer to next in this bucket, must be first
KEY_DEF_KEY = [%BPADDR/8, 0, 16, 0], ! code for this key, 0 to K_KEY_MAX
KEY_DEF_LEN = [(%BPADDR/8) + 2, 0, 8, 0], ! Length of the definition
KEY_DEF_TEXT = [(%BPADDR/8) + 3, 0, 0, 0], ! Start of definition text
TES;
```

LITERAL



```

: 0090 0      KEY_DEF_OVERHEAD = %FIELDEXPAND (KEY_DEF_TEXT, 0); ! Amount to add to text size to get structure size
: 0091 0
: 0092 0
: 0093 0      !+
: 0094 0      ! Define the length of the hash table that holds pointers to key definitions.
: U 0095 0      %IF %BLISS(BLISS16) %THEN
: U 0096 0          LITERAL K_KPAD_HASHSIZ = 1;                ! Very short table for PDP-11
: 0097 0      %ELSE
: 0098 0          LITERAL K_KPAD_HASHSIZ = 199;                ! Plenty of room on VAX-11
: 0099 0      %FI
: 0100 0      !
: 0101 0      [ End of file KEYPADDEF.REQ ]

```

# COMMAND QUALIFIERS

```

: BLISS/LIBRARY=EDTSRC:KEYPADDEF/LIST=LISS$:/SOURCE=REQUIRE SRC$:KEYPADDEF
: Run Time:      00:01.0
: Elapsed Time:  00:03.1
: Lines/CPU Min: 6247
: Lexemes/CPU-Min: 17010
: Memory Used:  10 pages
: Library Precompilation Complete

```



0135

AH-BT13A-SE  
VAX/VMS V4.0

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