

BBBBBBBBBBBB		AAAAAAA		SSSSSSSSSS		RRRRRRRRRR		TTTTTTTTTT		LLL
BBBBBBBBBBBB		AAAAAAA		SSSSSSSSSS		RRRRRRRRRR		TTTTTTTTTT		LLL
BBBBBBBBBBBB		AAAAAAA		SSSSSSSSSS		RRRRRRRRRR		TTTTTTTTTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRRRRRRRRR		TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRRRRRRRRR		TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRRRRRRRRR		TTT		LLL
BBB	BBB	AAAAAAAAAAAA			SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAAAAAAAAAAA			SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAAAAAAAAAAA			SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRR	RRR	TTT		LLLLLLLLLLLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRR	RRR	TTT		LLLLLLLLLLLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRR	RRR	TTT		LLLLLLLLLLLL

BBBBBBBB	PPPPPPPP	AAAAAA	MM	MM	000000	VV	VV	TTTTTTTTTT	UU	UU	CCCCCCCC
BBBBBBBB	PPPPPPPP	AAAAAA	MM	MM	000000	VV	VV	TTTTTTTTTT	UU	UU	CCCCCCCC
BB	PP	AA	MMM	MMM	00	VV	VV	TT	UU	UU	CC
BB	PP	AA	MMM	MMM	00	VV	VV	TT	UU	UU	CC
BB	PP	AA	MM	MM	00	VV	VV	TT	UU	UU	CC
BB	PP	AA	MM	MM	00	VV	VV	TT	UU	UU	CC
BBBBBBBB	PPPPPPPP	AA	MM	MM	00	VV	VV	TT	UU	UU	CC
BBBBBBBB	PPPPPPPP	AA	MM	MM	00	VV	VV	TT	UU	UU	CC
BB	PP	AAAAAAAAA	MM	MM	00	VV	VV	TT	UU	UU	CC
BB	PP	AAAAAAAAA	MM	MM	00	VV	VV	TT	UU	UU	CC
BB	PP	AA	MM	MM	00	VV	VV	TT	UU	UU	CC
BB	PP	AA	MM	MM	00	VV	VV	TT	UU	UU	CC
BB	PP	AA	MM	MM	00	VV	VV	TT	UU	UU	CC
BBBBBBBB	PP	AA	MM	MM	000000	VV	VV	TT	UUUUUUUUU	UU	CCCCCCCC
BBBBBBBB	PP	AA	MM	MM	000000	VV	VV	TT	UUUUUUUUU	UU	CCCCCCCC

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

(2) 50
(3) 57
(4) 86

HISTORY
DECLARATIONS
BPASSMOVTUC
; Detailed Current Edit History

```
0000 1      .TITLE BPASSMOVTUC      ; MOVTUC routine
0000 2      .IDENT /1-001/          ; File: BPAMOV TUC.MAR
0000 3
0000 4
0000 5 *****
0000 6
0000 7      *
0000 8      *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0000 9      *  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0000 10     *  ALL RIGHTS RESERVED.
0000 11
0000 12     *  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0000 13     *  ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0000 14     *  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0000 15     *  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0000 16     *  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0000 17     *  TRANSFERRED.
0000 18
0000 19     *  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0000 20     *  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0000 21     *  CORPORATION.
0000 22
0000 23     *  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 24     *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 25     *
0000 26 *****
0000 27
0000 28
0000 29     FACILITY: VAX-11 BASIC Miscellaneous
0000 30     ++
0000 31     ABSTRACT:
0000 32
0000 33         This module contains a MOVTUC instruction, and enough parameters
0000 34         to allow it to be used effectively from BLISS.
0000 35
0000 36     --
0000 37
0000 38     VERSION: 1
0000 39
0000 40     HISTORY:
0000 41
0000 42     AUTHOR:
0000 43         John Sauter, 03-DEC-1979
0000 44
0000 45     MODIFIED BY:
0000 46
0000 47
0000 48
```

BPASSMOVTUC
1-001

I 1
; MOVTUC routine
HISTORY ; Detailed Current Edit History 16-SEP-1984 00:02:29 VAX/VMS Macro V04-00 Page 2
6-SEP-1984 10:41:18 [BASRTL.SRC]BPAMOV TUC.MAR;1 (2)

0000 50 .SBTTL HISTORY ; Detailed Current Edit History
0000 51
0000 52
0000 53 ; Edit History for Version 1 of BPASSMOVTUC
0000 54 ;
0000 55 ; 1-001 - Original. JBS 03-DEC-1979

```
0000 57      .SBTTL DECLARATIONS
0000 58
0000 59 :
0000 60 : INCLUDE FILES:
0000 61 :
0000 62 :     NONE
0000 63 :
0000 64 : EXTERNAL SYMBOLS:
0000 65 :
0000 66 :     NONE
0000 67 :     .DSABL  GBL
0000 68 :
0000 69 : MACROS:
0000 70 :
0000 71 :     NONE
0000 72 :
0000 73 : PSECT DECLARATIONS:
0000 74 : .PSECT  _BPASCODE      PIC, SHR, LONG, EXE, NOWRT
0000 75 :
0000 76 :
0000 77 : EQUATED SYMBOLS:
0000 78 :
0000 79 :     NONE
0000 80 :
0000 81 :
0000 82 : OWN STORAGE:
0000 83 :
0000 84 :     NONE
```

```
0000 86 .SBTTL BPASS$MOVTUC
0000 87
0000 88 :++
0000 89 : FUNCTIONAL DESCRIPTION:
0000 90 :
0000 91 : Allows a BLISS program access to all of the facilities of
0000 92 : the MOVTUC instruction.
0000 93 :
0000 94 : CALLING SEQUENCE: (assuming the translate is of ASCII text)
0000 95 :
0000 96 : CALL BPASS$MOVTUC (SRCLEN.rw.r, SRCADDR.rt.r, ESC_CHR.rt.r, TBLADR.wt.r, DSTL
0000 97 : DSTADDR.wt.r, ESC_FLAG.wl.r, SRC_LEFT.ww.r, SRC_NEXT.wa.r, DEST_LEFT
0000 98 :
0000 99 : INPUT PARAMETERS:
0000 100 :
00000004 0000 101 : SRCLEN = 4; Length of the source string
00000008 0000 102 : SRCADDR = 8; Base of the source string
0000000C 0000 103 : ESC_CHR = 12; The escape character
00000010 0000 104 : TBLADR = 16; Translation table
00000014 0000 105 : DSTLEN = 20; Length of the destination string
00000018 0000 106 : DSTADDR = 24; Base of the destination string
0000 107 :
0000 108 : IMPLICIT INPUTS:
0000 109 :
0000 110 : NONE
0000 111 :
0000 112 : OUTPUT PARAMETERS:
0000 113 :
0000001C 0000 114 : ESC_FLAG = 28; 1 if the translation was terminated by escape, 0 if not.
00000020 0000 115 : SRC_LEFT = 32; 0 if the string was translated without escape, otherwise the
0000 116 : number of untranslated bytes in the source string, including
0000 117 : byte which caused the escape
00000024 0000 118 : SRC_NEXT = 36; Address of the byte in the source string which caused the es
0000 119 : or destination string exhaustion, or, if no exhaustion or es
0000 120 : the address one byte beyond the source string
00000028 0000 121 : DEST_LEFT = 40; Number of bytes remaining in the destination string
0000002C 0000 122 : DEST_NEXT = 44; Address of the byte in the destination string which would ha
0000 123 : received the translated byte that caused the escape, or woul
0000 124 : have received a translated byte if the source string were no
0000 125 : exhausted; or, if no exhaustion or escape, the address of on
0000 126 : byte beyond the destination string.
0000 127 :
0000 128 : IMPLICIT OUTPUTS:
0000 129 :
0000 130 : NONE
0000 131 :
0000 132 : FUNCTION VALUE:
0000 133 :
0000 134 : NONE
0000 135 :
0000 136 : SIDE EFFECTS:
0000 137 :
0000 138 : NONE
0000 139 :
0000 140 : --
0000 141 : .ENTRY BPASS$MOVTUC, ^M <R2, R3, R4, R5> ; Save registers through R5
10 BC 0C BC 08 BC 04 BC 003C 0000 142 : MOVTUC @SRCLEN(AP), @SRCADDR(AP), @ESC_CHR(AP), @TBLADR(AP), @DSTLEN(AP), @
```

BPASSMOVTUC
1-001

: MOVTUC routine
BPASSMOVTUC

L 1

16-SEP-1984 00:02:29
6-SEP-1984 10:41:18

VAX/VMS Macro V04-00
[BASRTL.SRC]BPAMOVTC.MAR;1

Page 5
(4)

18 BC	14 BC	000B			
	05	1D 000F	143	BVS	10\$
	1C BC	D4 0011	144	CLRL	@ESC_FLAG(AP)
	04	11 0014	145	BRB	20\$
1C BC	01	D0 0016	146 10\$:	MOVL	#1, @ESC_FLAG(AP)
20 BC	50	D0 001A	147 20\$:	MOVL	R0, @SRC_LEFT(AP)
24 BC	51	D0 001E	148	MOVL	R1, @SRC_NEXT(AP)
28 BC	54	D0 0022	149	MOVL	R4, @DEST_LEFT(AP)
2C BC	55	D0 0026	150	MOVL	R5, @DEST_NEXT(AP)
		04 002A	151	RET	
		002B	152 ;		
		002B	153	.END	

; Not terminated by escape

; Terminated by escape

; Return to caller

BPASSMOVTUC
Symbol table

; MOVTUC routine

M 1

16-SEP-1984 00:02:29
6-SEP-1984 10:41:18

VAX/VMS Macro V04-00
[BASRTL.SRC]BPAMOV TUC.MAR;1

Page 6
(4)

BPASSMOVTUC = 00000000 RG 01
DEST_LEFT = 00000028
DEST_NEXT = 0000002C
DSTADDR = 00000018
DSTLEN = 00000014
ESC_CHR = 0000000C
ESC_FLAG = 0000001C
SRCADDR = 00000008
SRCLN = 00000004
SRC_LEFT = 00000020
SRC_NEXT = 00000024
TBLADR = 00000010

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes
ABS	00000000 (0.)	00 (0.)	NOPIC USR
BPASCODE	0000002B (43.)	01 (1.)	PIC USR

CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
CON REL LCL SHR EXE RD NOWRT NOVEC LONG

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	35	00:00:00.08	00:00:00.50
Command processing	118	00:00:00.49	00:00:03.02
Pass 1	68	00:00:00.44	00:00:01.29
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	43	00:00:00.31	00:00:01.00
Symbol table output	3	00:00:00.02	00:00:00.02
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	271	00:00:01.36	00:00:05.85

The working set limit was 750 pages.
1772 bytes (4 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 12 non-local and 2 local symbols.
153 source lines were read in Pass 1, producing 10 object records in Pass 2.
0 pages of virtual memory were used to define 0 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name	Macros defined
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	0

0 GETS were required to define 0 macros.

There were no error arnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS\$:BPAMOV TUC/OBJ=OBJ\$:BPAMOV TUC MSRC\$:BPAMOV TUC/UPDATE=(ENH\$:BPAMOV TUC)

0035 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

BOOTBLOCK
MAP

STACONFIG
MAP

SYSBOOT
MAP

BPAMOVUC
LIS

BOOTS

BPASSDEAS
LIS

BOOT58
MAP

STANDCONF
MAP

CONFIGURE
MAP

BPAWAKEUP
LIS

STASYSGEN
MAP

BPAETPRI
LIS