


```

BBBBBBBQ  PPPPPPPP  AAAAAA  MM      MM  000000  VV      VV  TTTTTTTTTT  UU      UU  CCCCCCCC
BBBBBBBB  PPPPPPPP  AAAAAA  MM      MM  000000  VV      VV  TTTTTTTTTT  UU      UU  CCCCCCCC
BB      BB  PP      PP  AA      AA  MMMM  MMMM  00      00  VV      VV  TT      TT  UU      UU  CC      CC
BB      BB  PP      PP  AA      AA  MMMM  MMMM  00      00  VV      VV  TT      TT  UU      UU  CC      CC
BB      BB  PP      PP  AA      AA  MM  MM  MM  00      00  VV      VV  TT      TT  UU      UU  CC      CC
BB      BB  PP      PP  AA      AA  MM  MM  MM  00      00  VV      VV  TT      TT  UU      UU  CC      CC
BBBBBBBB  PPPPPPPP  AA      AA  MM      MM  00      00  VV      VV  TT      TT  UU      UU  CC      CC
BBBBBBBB  PPPPPPPP  AA      AA  MM      MM  00      00  VV      VV  TT      TT  UU      UU  CC      CC
BB      BB  PP      AAAAAAAAAA  MM      MM  00      00  VV      VV  TT      TT  UU      UU  CC      CC
BB      BB  PP      AAAAAAAAAA  MM      MM  00      00  VV      VV  TT      TT  UU      UU  CC      CC
BB      BB  PP      AA      AA  MM      MM  00      00  VV      VV  TT      TT  UU      UU  CC      CC
BB      BB  PP      AA      AA  MM      MM  00      00  VV      VV  TT      TT  UU      UU  CC      CC
BBBBBBBB  PP      AA      AA  MM      MM  000000  VV      VV  TT      TT  UUUUUUUUUU  CCCCCCCC
BBBBBBBB  PP      AA      AA  MM      MM  000000  VV      VV  TT      TT  UUUUUUUUUU  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

```

BPASSMOVTUC
Table of contents

; MOVTUC routine

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HISTORY ; Detailed Current Edit History
DECLARATIONS
BPASSMOVTUC

```
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 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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0000 22 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS *
0000 23 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
0000 24
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 16-SEP-1984 00:02:29 VAX/VMS Macro V04-00 Page 2
HISTORY ; Detailed Current Edit History 6-SEP-1984 10:41:18 [BASRTL.SRC]BPAMOVTUC.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  _BPAS$CODE      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 BPASSMOVTUC
0000 87
0000 88      :++
0000 89      : FUNCTIONAL DESCRIPTION:
0000 90
0000 91      :     Allows a BLISS program access to all of the fa    ties of
0000 92      :     the MOVTUC instruction.
0000 93
0000 94      : CALLING SEQUENCE: (assuming the translate is of ASCII text)
0000 95
0000 96      :     CALL BPASSMOVTUC (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      :--
10 BC 0C BC 08 BC 04 BC 003C 0000 141      :.ENTRY BPASSMOVTUC, ^M <R2, R3, R4, R5>      ; Save registers through R5
2F 0002 0002 142      :MOVTUC @SRCLEN(AP), @SRCADDR(AP), @ESC_CHR(AP), @TBLADR(AP), @DSTLEN(AP), @

```

BPASSMOVTUC
1-001

: MOVTUC routine
BPASSMOVTUC

L 1

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6-SEP-1984 10:41:18

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

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18 BC	14 BC	000B			
	05	1D 000F	143		BVS
	1C BC	D4 0011	144		CLRL
	04	11 0014	145		BRB
1C BC	01	D0 0016	146	10\$:	MOVL
20 BC	50	D0 001A	147	20\$:	MOVL
24 BC	51	D0 001E	148		MOVL
28 BC	54	D0 0022	149		MOVL
2C BC	55	D0 0026	150		MOVL
		04 002A	151		RET
		002B	152		
		002B	153		.END

10\$
@ESC_FLAG(AP)
20\$
#1, @ESC_FLAG(AP)
R0, @SRC_LEFT(AP)
R1, @SRC_NEXT(AP)
R4, @DEST_LEFT(AP)
R5, @DEST_NEXT(AP)

; 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

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(4)

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

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes										
ABS	00000000 (0.)	00 (0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE
_BPASCODE	00000028 (43.)	01 (1.)	PIC	USR	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 warnings or information messages.

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

BPAMOUTUC LIS	BPASSDEAS LIS	BPAAWAKEUP LIS	BPASETPRI LIS	BOOTBLOCK MAP	STACONFIG MAP	SYSBOOT MAP
				BOOTS	BOOT58 MAP	
				CONFIGURE MAP	STANDCONF MAP	
						STASYSGEN MAP