



```

LL      IIIIII  BBBB8888  MM      MM      000000  VV      VV      CCCCCCCC  333333
LL      IIIIII  BBBB8888  MM      MM      000000  VV      VV      CCCCCCCC  333333
LL      II      BB      BB  MMMM  MMMM  00      00  VV      VV      CC      33      33
LL      II      BB      BB  MMMM  MMMM  00      00  VV      VV      CC      33      33
LL      II      BB      BB  MM      MM  00      00  VV      VV      CC      33      33
LL      II      BB      BB  MM      MM  00      00  VV      VV      CC      33      33
LL      II      BB      BB  MM      MM  00      00  VV      VV      CC      33      33
LL      II      BB      BB  MM      MM  00      00  VV      VV      CC      33      33
LL      II      BB      BB  MM      MM  00      00  VV      VV      CC      33      33
LL      II      BB      BB  MM      MM  00      00  VV      VV      CC      33      33
LLLLLLLLLLLL IIIIII  BBBB8888  MM      MM      000000  VV      VV      CCCCCCCC  333333
LLLLLLLLLLLL IIIIII  BBBB8888  MM      MM      000000  VV      VV      CCCCCCCC  333333

```

```

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
LLLLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLLLL IIIIII  SSSSSSSS

```

(2) 46  
(3) 75

DECLARATIONS  
LIB\$MOV3 - Execute MOV3 instruction

```
0000 1 .TITLE LIB$MOV3 - Execute MOV3 instruction
0000 2 .IDENT /1-001/ ; File: LIBMOV3.MAR Edit: SBL1001
0000 3
0000 4
0000 5 *****
0000 6 *
0000 7 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
0000 8 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. *
0000 9 * ALL RIGHTS RESERVED. *
0000 10 *
0000 11 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *
0000 12 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE *
0000 13 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER *
0000 14 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *
0000 15 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY *
0000 16 * TRANSFERRED. *
0000 17 *
0000 18 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE *
0000 19 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT *
0000 20 * CORPORATION. *
0000 21 *
0000 22 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS *
0000 23 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
0000 24 *
0000 25 *
0000 26 *****
0000 27
0000 28
0000 29 ++
0000 30 FACILITY: General Utility Library
0000 31
0000 32 ABSTRACT:
0000 33
0000 34 This module contains LIB$MOV3, which makes the VAX MOV3 instruction
0000 35 available as a callable procedure.
0000 36
0000 37 ENVIRONMENT: Runs at any access mode, AST Reentrant
0000 38
0000 39 AUTHOR: Steven B. Lionel, CREATION DATE: 28-October-1981
0000 40
0000 41 MODIFIED BY:
0000 42
0000 43 1-001 - Original. SBL 28-October-1981
0000 44 --
```

```
0000 46      .SBTTL  DECLARATIONS
0000 47      :
0000 48      : LIBRARY MACRO CALLS:
0000 49      :
0000 50      :     NONE
0000 51      :
0000 52      : EXTERNAL DECLARATIONS:
0000 53      :
0000 54      :     .DSABL  GBL           ; Force all external symbols to be declared
0000 55      :     NONE
0000 56      :
0000 57      : MACROS:
0000 58      :
0000 59      :     NONE
0000 60      :
0000 61      : EQUATED SYMBOLS:
0000 62      :
0000 63      :     NONE
0000 64      :
0000 65      : OWN STORAGE:
0000 66      :
0000 67      :     NONE
0000 68      :
0000 69      : PSECT DECLARATIONS:
0000 70      :
00000000 71      :     .PSECT _LIB$CODE PIC,  USR,  CON,  REL,  LCL,  SHR,  -
0000 72      :     EXE,  RD,  NOWRT,  LONG
0000 73      :
```

```

0000 75 .SBTTL LIB$MOV3 - Execute MOV3 instruction
0000 76 :++
0000 77 : FUNCTIONAL DESCRIPTION:
0000 78 :
0000 79 : LIB$MOV3 makes the VAX MOV3 instruction available as
0000 80 : a callable procedure.
0000 81 :
0000 82 : The source is moved to the destination. The operation is
0000 83 : such that overlap of the source and destination does not
0000 84 : affect the result.
0000 85 :
0000 86 : For more information, see the VAX-11 Architecture Handbook.
0000 87 :
0000 88 : CALLING SEQUENCE:
0000 89 :
0000 90 : status.wlc.v = LIB$MOV3 (length.rwu.r, source.rz.r, dest.wz.r)
0000 91 :
0000 92 : FORMAL PARAMETERS:
0000 93 :
00000004 0000 94 : length = 4 ; The number of bytes to move from source
0000 95 : ; to dest. Passed by reference. The maximum
0000 96 : ; value is 65535.
00000008 0000 97 :
0000 98 : source = 8 ; The source to move from. Passed by reference.
0000 99 :
0000000C 0000 100 : dest = 12 ; The destination to move to. Passed by
0000 101 : ; reference.
0000 102 :
0000 103 :
0000 104 : IMPLICIT INPUTS:
0000 105 :
0000 106 : NONE
0000 107 :
0000 108 : IMPLICIT OUTPUTS:
0000 109 :
0000 110 : NONE
0000 111 :
0000 112 : COMPLETION STATUS:
0000 113 :
0000 114 : SSS_NORMAL Procedure successfully completed.
0000 115 :
0000 116 : SIDE EFFECTS:
0000 117 :
0000 118 : NONE
0000 119 :
0000 120 : --
0000 121 :
0000 122 : .ENTRY LIB$MOV3, ^M<R2,R3,R4,R5> ; Entry point
0002 123 :
0002 124 : MOV3 @length(AP), -
0009 125 : @source(AP), -
0009 126 : @dest(AP)
0009 127 :
0009 128 : MOVL #1, R0 ; SSS_NORMAL
000C 129 : RET ; return to caller
000D 130 :
000D 131 : .END ; End of module LIB$MOV3

```

LIB\$MOVC3  
Symbol table

- Execute MOVC3 instruction

I 10

16-SEP-1984 00:06:02  
6-SEP-1984 11:09:12

VAX/VMS Macro V04-00  
[LIBRTL.SRC]LIBMOVC3.MAR;1

Page 4  
(3)

DEST = 0000000C  
LENGTH = 00000004  
LIB\$MOVC3 = 00000000 RG 01  
SOURCE = 00000008

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

| PSECT name | Allocation      | PSECT No. | Attributes | CON | ABS | LCL | NOSHR | NOEXE | NORD | NOWRT | NOVEC | BYTE  |      |
|------------|-----------------|-----------|------------|-----|-----|-----|-------|-------|------|-------|-------|-------|------|
| ABS        | 00000000 ( 0.)  | 00 ( 0.)  | NOPIC      | USR |     |     |       |       |      |       |       |       |      |
| _LIB\$CODE | 0000000D ( 13.) | 01 ( 1.)  | PIC        | USR | CON | REL | LCL   | SHR   | EXE  | RD    | NOWRT | NOVEC | LONG |

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

| Phase                  | Page faults | CPU Time    | Elapsed Time |
|------------------------|-------------|-------------|--------------|
| Initialization         | 29          | 00:00:00.04 | 00:00:00.94  |
| Command processing     | 116         | 00:00:00.33 | 00:00:02.82  |
| Pass 1                 | 66          | 00:00:00.23 | 00:00:01.90  |
| Symbol table sort      | 0           | 00:00:00.00 | 00:00:00.00  |
| Pass 2                 | 37          | 00:00:00.19 | 00:00:01.37  |
| Symbol table output    | 2           | 00:00:00.01 | 00:00:00.01  |
| Psect synopsis output  | 2           | 00:00:00.01 | 00:00:00.01  |
| Cross-reference output | 0           | 00:00:00.00 | 00:00:00.00  |
| Assembler run totals   | 254         | 00:00:00.81 | 00:00:07.05  |

The working set limit was 900 pages.  
1239 bytes (3 pages) of virtual memory were used to buffer the intermediate code.  
There were 10 pages of symbol table space allocated to hold 4 non-local and 0 local symbols.  
131 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 errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS\$:LIBMOVC3/OBJ=OBJ\$:LIBMOVC3 MSRC\$:LIBMOVC3/UPDATE=(ENH\$:LIBMOVC3)

