



```

LL          IIIIII  BBBB8888  MM      MM      000000  VV      VV      CCCCCCCC  5555555555
LL          IIIIII  BBBB8888  MM      MM      000000  VV      VV      CCCCCCCC  5555555555
LL          II      BB      BB  MMMM  MMMM  00      00  VV      VV      CC      55
LL          II      BB      BB  MMMM  MMMM  00      00  VV      VV      CC      55
LL          II      BB      BB  MM  MM  00      00  VV      VV      CC      555555
LL          II      BB      BB  MM  MM  00      00  VV      VV      CC      555555
LL          II      BBBB8888  MM      MM      00      00  VV      VV      CC      55
LL          II      BBBB8888  MM      MM      00      00  VV      VV      CC      55
LL          II      BB      BB  MM      MM      00      00  VV      VV      CC      55
LL          II      BB      BB  MM      MM      00      00  VV      VV      CC      55
LL          II      BB      BB  MM      MM      00      00  VV      VV      CC      55
LL          II      BB      BB  MM      MM      00      00  VV      VV      CC      55
LL          II      BB      BB  MM      MM      00      00  VV      VV      CC      55
LLLLLLLLLLL IIIIII  BBBB8888  MM      MM      000000  VV      VV      CCCCCCCC  555555
LLLLLLLLLLL IIIIII  BBBB8888  MM      MM      000000  VV      VV      CCCCCCCC  555555

```

```

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
LLLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLLL IIIIII  SSSSSSSS

```

LIB\$MOVCS  
Table of contents

- Execute MOVCS instruction

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DECLARATIONS  
LIB\$MOVCS - Execute MOVCS instruction

```
0000 1      .TITLE LIB$MOVCS - Execute MOVCS instruction
0000 2      .IDENT /1-001/                          ; File: LIBMOVCS.MAR Edit: SBL1001
0000 3
0000 4
0000 5 :*****
0000 6 :*
0000 7 :* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY          *
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0000 24 :*
0000 25 :*
0000 26 :*****
0000 27
0000 28
0000 29 :++
0000 30 : FACILITY: General Utility Library
0000 31
0000 32 : ABSTRACT:
0000 33
0000 34 :       This module contains LIB$MOVCS, which makes the VAX MOVCS 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 :--
```

LIBRARY

```
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$MOVCS - Execute MOVCS instruction
0000 76 :++
0000 77 : FUNCTIONAL DESCRIPTION:
0000 78 :
0000 79 : LIB$MOVCS makes the VAX MOVCS instruction available as
0000 80 : a callable procedure.
0000 81 :
0000 82 : The source is moved to the destination. If the destination is
0000 83 : longer than the source, the highest address bytes of the
0000 84 : destination are replaced by the fill argument. If the
0000 85 : destination is shorter than the source, the highest
0000 86 : addressed bytes of the source are not moved. The operation is
0000 87 : such that overlap of the source and destination does not
0000 88 : affect the result.
0000 89 :
0000 90 : For more information, see the VAX-11 Architecture Handbook.
0000 91 :
0000 92 : CALLING SEQUENCE:
0000 93 :
0000 94 : status.wlc.v = LIB$MOVCS (src_len.rwu.r, source.rz.r, fill.rb.r,
0000 95 : dst_len.rwu.r, dest.wz.r)
0000 96 :
0000 97 : FORMAL PARAMETERS:
0000 98 :
00000004 0000 99 : src_len = 4 ; The length of source in bytes. Passed
0000 100 : ; by reference. The maximum length is 65535.
0000 101 :
00000008 0000 102 : source = 8 ; The source to move from. Passed by reference.
0000 103 :
0000000C 0000 104 : fill = 12 ; The fill character. Passed by reference.
0000 105 :
00000010 0000 106 : dst_len = 16 ; The length of dest in bytes. Passed by
0000 107 : ; reference. The maximum length is 65535.
0000 108 :
00000014 0000 109 : dest = 20 ; The destination to move to. Passed by
0000 110 : ; reference.
0000 111 :
0000 112 :
0000 113 : IMPLICIT INPUTS:
0000 114 :
0000 115 : NONE
0000 116 :
0000 117 : IMPLICIT OUTPUTS:
0000 118 :
0000 119 : NONE
0000 120 :
0000 121 : COMPLETION STATUS:
0000 122 :
0000 123 : $$$_NORMAL Procedure successfully completed.
0000 124 :
0000 125 : SIDE EFFECTS:
0000 126 :
0000 127 : NONE
0000 128 :
0000 129 : --
003C 0000 130 :
003C 0000 131 : .ENTRY LIB$MOVCS, ^M<R2,R3,R4,R5> ; Entry point
```

08 BC	04 BC	2C	0002	132				
			0002	133	MOVCS	@src_len(AP), -		
			0007	134		@source(AP), -		
10 BC	0C BC		0007	135		@fill(AP), -		
	14 BC		0007	136		@dst_len(AP), -		
			000B	137		@dest(AP)		
			000D	138				
50	01	D0	000D	139	MOVL	#1, R0		: SSS_NORMAL
		04	0010	140	RET			: return to caller
			0011	141				
			0011	142	.END			: End of module LIB\$MOVCS

LIB\$MOVCS  
Symbol table

- Execute MOVCS instruction

C 11

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6-SEP-1984 11:09:15

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

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(3)

DEST = 00000014  
DST\_LEN = 00000010  
FILC = 0000000C  
LIB\$MOVCS 00000000 RG 01  
SOURCE = 00000008  
SRC\_LEN = 00000004

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

PSECT name	Allocation	PSECT No.	Attributes
ABS	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
_LIB\$CODE	00000011 ( 17.)	01 ( 1.)	PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC LONG

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	34	00:00:00.04	00:00:00.58
Command processing	125	00:00:00.31	00:00:03.43
Pass 1	66	00:00:00.23	00:00:04.16
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	40	00:00:00.19	00:00:00.81
Symbol table output	3	00:00:00.01	00:00:00.01
Psect synopsis output	2	00:00:00.02	00:00:00.39
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	272	00:00:00.80	00:00:09.38

The working set limit was 900 pages.  
1379 bytes (3 pages) of virtual memory were used to buffer the intermediate code.  
There were 10 pages of symbol table space allocated to hold 6 non-local and 0 local symbols.  
142 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\$:LIBMOVCS/OBJ=OBJ\$:LIBMOVCS MSRC\$:LIBMOVCS/UPDATE=(ENH\$:LIBMOVCS)



