

(2) 51
(3) 58
(4) 89

HISTORY ; Detailed Current Edit History
DECLARATIONS
MTH\$GCONJG - return G COMPLEX*16 conjugate

```
0000 1 .TITLE MTH$GCONJG - G COMPLEX*16 Conjugate
0000 2 .IDENT /1-001/ ; File: MTHGCONJG.MAR
0000 3
0000 4
0000 5 *****
0000 6 *
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0000 24 *
0000 25 *
0000 26 *****
0000 27
0000 28
0000 29
0000 30 FACILITY: MATH LIBRARY
0000 31 ++
0000 32 ABSTRACT:
0000 33 This module contains routine MTH$GCONJG:
0000 34 Return G COMPLEX*16 conjugate.
0000 35
0000 36
0000 37 --
0000 38
0000 39 VERSION: 1
0000 40
0000 41 HISTORY:
0000 42
0000 43 AUTHOR:
0000 44 Steven B. Lionel, 20-July-1979
0000 45
0000 46 MODIFIED BY:
0000 47
0000 48
0000 49
```



```
0000 58      .SBTTL  DECLARATIONS
0000 59
0000 60 :
0000 61 : INCLUDE FILES:
0000 62 :
0000 63 :
0000 64 :
0000 65 :
0000 66 : EXTERNAL SYMBOLS:
0000 67 :     NONE
0000 68 :
0000 69 :
0000 70 :
0000 71 : MACROS:
0000 72 :     NONE
0000 73 :
0000 74 :
0000 75 :
0000 76 : PSECT DECLARATIONS:
0000 77 :     .PSECT  _MTH$CODE      PIC, SHR, EXE, NOWRT, LONG
0000 78 :
0000 79 :
0000 80 : EQUATED SYMBOLS:
0000 81 :     NONE
0000 82 :
0000 83 :
0000 84 :
0000 85 : OWN STORAGE:
0000 86 :     NONE
0000 87 :
```

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0000 89      .SBTTL MTH$GCONJG - return G COMPLEX*16 conjugate
0000 90
0000 91      :++
0000 92      FUNCTIONAL DESCRIPTION:
0000 93      Returns the complex conjugate of COMPLEX*16 number (r,i).
0000 94      Result is (r,-i).
0000 95      :
0000 96      :
0000 97      CALLING SEQUENCE:
0000 98      CALL MTH$GCONJG (result.wdc.r, arg.rdc.r)
0000 99      :
0000 100     :
0000 101     :
0000 102     : INPUT PARAMETERS:
0000 103     arg      = 8                ; G COMPLEX*16 argument by reference.
0000 104     :
0000 105     :
0000 106     IMPLICIT INPUTS:
0000 107     NONE
0000 108     :
0000 109     OUTPUT PARAMETERS:
0000 110     :
0000 111     result = 4                ; G COMPLEX*16 result by reference
0000 112     :
0000 113     IMPLICIT OUTPUTS:
0000 114     NONE
0000 115     :
0000 116     COMPLETION CODES:
0000 117     NONE
0000 118     :
0000 119     SIDE EFFECTS:
0000 120     Reserved Operand exception can occur.
0000 121     :
0000 122     :
0000 123     :--
0000 124
0000 125
0000 126
50 08 AC 0000 0000 127      .ENTRY MTH$GCONJG,      ^M<>
51 04 AC 0002 0002 128      MOVL  arg(AP), R0                ; argument address
81 80 50FD 000A 129      MOVL  result(AP), R1            ; result address
61 60 52FD 000E 130      MOVG  (R0)+, (R1)+          ; real part
0012 131      MNEGG (R0), (R1)          ; imaginary part
0013 132      RET
0013 133
0013 134
0013 135      .END

```

MTH\$GCONJG
Symbol table

- G COMPLEX*16 Conjugate

H 10

16-SEP-1984 01:26:15
6-SEP-1984 11:23:32

VAX/VMS Macro V04-00
[MTHRTL.SRC]MTHGCONJG.MAR;1

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ARG = 00000008
MTH\$GCONJG = 00000000 RG 01
RESULT = 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				
_MTH\$CODE	00000013 (19.)	01 (1.)	PIC	USR	CON	REL	LCL	SHR	EXE	RD	NOWRT	NOVEC	LONG				

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.08	00:00:00.68
Command processing	108	00:00:00.51	00:00:03.04
Pass 1	65	00:00:00.38	00:00:02.05
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	38	00:00:00.29	00:00:00.73
Symbol table output	2	00:00:00.02	00:00:00.01
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	246	00:00:01.30	00:00:06.54

The working set limit was 900 pages.
1355 bytes (3 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 3 non-local and 0 local symbols.
135 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\$:MTHGCONJG/OBJ=OBJ\$:MTHGCONJG MSRC\$:MTHGCONJG/UPDATE=(ENH\$:MTHGCONJG)

