


```

FFFFFFFFF 000000 RRRRRRRR TTTTTTTTTT IIIIII MM MM EEEEEEEEE
FFFFFFFFF 000000 RRRRRRRR TTTTTTTTTT IIIIII MM MM EEEEEEEEE
FF 00 00 RR RR TT TT M MM M EE
FF 00 00 RR RR TT TT M MM M EE
FF 00 00 RR RR TT TT M MM M EE
FFFFFFFF 00 00 RRRRRRRR TT TT MM MM EEEEEEE
FFFFFFFF 00 00 RRRRRRRR TT TT MM MM EEEEEEE
FF CO 00 RR RR TT TT MM MM EE
FF 00 00 RR RR TT TT MM MM EE
FF 00 00 RR RR TT TT MM MM EE
FF 000000 RR RR TT IIIIII MM MM EEEEEEEEE
FF 000000 RR RR TT IIIIII MM MM EEEEEEEEE

```

```

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

```

FOR
Sym
FOR
SYS

PSE

_FO

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Sym
Pas
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174
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133
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MAC

FOR\$TIME
Table of contents

; return system time in 8-byte array^{K 2}

16-SEP-1984 00:02:46 VAX/VMS Macro V04-00

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**F

- (2) 50
- (3) 61
- (4) 88

HISTORY ; Detailed Current Edit History
DECLARATIONS
FOR\$TIME - return system as an 8 byte string

```

0000 1 .TITLE FOR$TIME ; return system time in 8-byte array
0000 2 .IDENT /1-002/ ; file: FORTIME.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 FACILITY: FORTRAN SUPPORT LIBRARY
0000 30 ++
0000 31 ABSTRACT:
0000 32
0000 33 Call system service $ASCTIM to return system time to user
0000 34 area.
0000 35
0000 36 --
0000 37
0000 38 VERSION: 0
0000 39
0000 40 HISTORY:
0000 41
0000 42 AUTHOR:
0000 43 Jonathan M. Taylor, 18-Aug-77: Version 0
0000 44
0000 45 MODIFIED BY:
0000 46
0000 47
0000 48

```



```
0000 61 .SBTTL DECLARATIONS
0000 62
0000 63 :
0000 64 : INCLUDE FILES:
0000 65 : oerr.mar
0000 66 :
0000 67 :
0000 68 : EXTERNAL SYMBOLS:
0000 69 : .GLOBL SYSSASCTIM
0000 70 :
0000 71 :
0000 72 : MACROS:
0000 73 : NONE
0000 74 :
0000 75 :
0000 76 : PSECT DECLARATIONS:
00000000 77 : .PSECT _FOR$CODE PIC, SHR, LONG, EXE, NOWRT
0000 78 :
0000 79 :
0000 80 : EQUATED SYMBOLS:
0000 81 : NONE
0000 82 :
0000 83 :
0000 84 : OWN STORAGE:
0000 85 : NONE
0000 86
```



```

0000 88      .SBTTL  FOR$TIME - return system as an 8 byte string
0000 89
0000 90      :++
0000 91      : FUNCTIONAL DESCRIPTION:
0000 92      : Returns system time as an 8 byte string in the form
0000 93      : HH:MM:SS. Build a string descriptor on the stack that points
0000 94      : to the users area. Call system service $ASCTIM to do all
0000 95      : the work.
0000 96
0000 97      : CALLING SEQUENCE:
0000 98      : CALL    FOR$TIME (8_byte_array.wb.ra)
0000 99
0000 100
0000 101     : INPUT PARAMETERS:
0000 102     :      8_byte_array           the addr of 8 bytes into which the
0000 103     :                               string is to be placed
0000 104
0000 105     : IMPLICIT INPUTS:
0000 106     :      NONE
0000 107
0000 108     : OUTPUT PARAMETERS:
0000 109     :      NONE
0000 110
0000 111     : IMPLICIT OUTPUTS:
0000 112     :      NONE
0000 113
0000 114     : COMPLETION CODES:
0000 115     :      NONE
0000 116
0000 117     : SIDE EFFECTS:
0000 118     :      NONE
0000 119
0000 120     :--
0000 121
0000 122
0000 123     .ENTRY  FOR$TIME,      ^M<>
7E    7E    04 AC 0000 0002 124     MOVL   4(AP), -(SP)      ; build a string descriptor
010E0008 8F  D0 0006 125     MOVL   #^X10E0008, -(SP)    ; len=8
50    5E  D0 000D 126     MOVL   SP, R0              ; R0 -> string descriptor
0010 127     $ASCTIM_S      ,(R0),#1 ; get time info only
04    001F 128     RET                               ; return to user
0020 129
0020 130
0020 131     .END
    
```

FOR\$TIME ; return system time in 8-byte array C 3
Symbol table

16-SEP-1984 00:02:46 VAX/VMS Macro V04-00
6-SEP-1984 11:00:35 [FORRTL.SRC]FORTIME.MAR;1

Page 5
(4)

FOR
1-0

FOR\$TIME 00000000 RG 01
SYSSASCTIM ***** G 00

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes												
ABS	00000000 (0.)	00 (0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE		
_FOR\$CODE	00000020 (32.)	01 (1.)	PIC	USR	CON	REL	LCL	SHR	EXE	RD	NOWRT	NOVEC	LONG		

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	31	00:00:00.09	00:00:00.92
Command processing	120	00:00:00.48	00:00:02.95
Pass 1	97	00:00:00.52	00:00:02.49
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	38	00:00:00.32	00:00:01.35
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	292	00:00:01.44	00:00:07.74

The working set limit was 900 pages.
1591 bytes (4 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 2 non-local and 0 local symbols.
131 source lines were read in Pass 1, producing 11 object records in Pass 2.
2 pages of virtual memory were used to define 2 macros.

! Macro library statistics !

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

15 GETS were required to define 2 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS\$:FORTIME/OBJ=OBJ\$:FORTIME MSRCS\$:FORTIME/UPDATE=(ENHS\$:FORTIME)

