

FFFFFFFFFF	000000	RRRRRRRR	TTTTTTTTTT	IIIIII	MM	MM	EEEEEEEEEE	DDDDDDDD	SSSSSSSS	
FFFFFFFFFF	000000	RRRRRRRR	TTTTTTTTTT	IIIIII	MM	MM	EEEEEEEEEE	DDDDDDDD	SSSSSSSS	
FF	00	00	RR	RR	TT			DD	DD	SS
FF	00	00	RR	RR	TT			DD	DD	SS
FF	00	00	RR	RR	TT			DD	DD	SS
FF	00	00	RR	RR	TT			DD	DD	SS
FFFFFFFF	00	00	RRRRRRRR	TT	TT			DD	DD	SSSSSS
FFFFFFFF	00	00	RRRRRRRR	TT	TT			DD	DD	SSSSSS
FF	00	00	RR	RR	TT			DD	DD	SS
FF	00	00	RR	RR	TT			DD	DD	SS
FF	00	00	RR	RR	TT			DD	DD	SS
FF	00	00	RR	RR	TT			DD	DD	SS
FF	000000	RR	RR	TT	TTTTTT			DDDDDDDD	SSSSSSSS
FF	000000	RR	RR	TT	TTTTTT			DDDDDDDD	SSSSSSSS

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
LL	II	SS
LLLLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLLLL	IIIIII	SSSSSSSS

.....

.....

(2)	50	HISTORY	; Detailed Current Edit History
(3)	60	DECLARATIONS	
(4)	87	FOR\$TIME_T_DS	- return system time to FORTRAN string

.....

```
0000 1 .TITLE FOR$TIME_T_DS ; return system time to FORTRAN
0000 2 ; character string
0000 3 .IDENT /1-002/ ; File: FORTIMEDS.MAR
0000 4
0000 5
0000 6 :*****
0000 7 :*
0000 8 :* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0000 25 :*
0000 26 :*
0000 27 :*****
0000 28 :
0000 29 :
0000 30 : FACILITY: FORTRAN SYSTEM ROUTINE - FORTRAN LIBRARY
0000 31 :++
0000 32 : ABSTRACT:
0000 33 : Return system time in the form HH:MM:SS to a FORTRAN (fixed-len)
0000 34 : string. Blank pad if necessary.
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, 23-Aug-77: Version 0
0000 44 :
0000 45 : MODIFIED BY:
0000 46 :
0000 47 :
0000 48 :
```

```
0000 50          .SBTTL HISTORY          ; Detailed Current Edit History
0000 51
0000 52
0000 53 ; Edit History for Version 0 of FOR$TIME_T_DS
0000 54 ;
0000 55
0000 56 ; 0-2 - Remove FOR$FLAG_JACKET. TNH 11-July-78
0000 57 ; 1-001 - Update version number and copyright notice. JBS 16-NOV-78
0000 58 ; 1-002 - Add " " to the PSECT directive. JBS 22-DEC-78
```

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

.....

```

0000 87      .SBTTL FOR$TIME_T_DS - return system time to FORTRAN string
0000 88
0000 89 :++
0000 90 : FUNCTIONAL DESCRIPTION:
0000 91 :   Use system service ASCTIM to move system time directly to the
0000 92 :   caller. Pad the rest of the string with blanks if necessary.
0000 93
0000 94 : CALLING SEQUENCE:
0000 95 :   CALL   FOR$TIME_T_DS (time_string.wt.ds)
0000 96
0000 97
0000 98 : INPUT PARAMETERS:
0000 99 :   time_string is the address of a fixed-len string.
0000 100
0000 101 : IMPLICIT INPUTS:
0000 102 :   NONE
0000 103
0000 104 : OUTPUT PARAMETERS:
0000 105 :   NONE
0000 106
0000 107 : IMPLICIT OUTPUTS:
0000 108 :   NONE
0000 109
0000 110 : COMPLETION CODES:
0000 111 :   NONE
0000 112
0000 113 : SIDE EFFECTS:
0000 114 :   NONE
0000 115
0000 116 :--
0000 117
0000 118
0000 119
0000 120      .ENTRY FOR$TIME_T_DS, ^M<R2,R3,R4,R5>
53 04 AC 003C 0002 121      MOVL 4(AP), R3          ; R3 -> string desc. of users string
0006 122      $ASCTIM_S (R3), #1      ; put ASCII info in users string
08 63 B1 0015 123      CMPW (R3), #8          ; if users string size is 8 bytes
0018 124          ; or less, then no padding
50 04 A3 0F 15 0018 125      BLEQ 1$          ; is necessary
001A 126      ADDL3 #8, 4(R3), R0      ; R0 -> where to pad with blanks
51 63 08 A3 001F 127      SUBW3 #8, (R3), R1      ; R1 = # bytes to blank pad
60 51 20 60 00 2C 0023 128      MOVCS #0, (R0), #^A/ /, R1, (R0)
0029 129
0029 130 1$: RET          ; pad rest of users string
002A 131          ; back to caller
002A 132
002A 133      .END
  
```

FOR\$TIME_T_DS
Symbol table

; return system time to FORTRAN

J 3

16-SEP-1984 00:03:04
6-SEP-1984 11:00:37

VAX/VMS Macro V04-00
[FORRTL.SRC]FORTIMEDS.MAR;1

Page 5
(4)

FOR\$TIME_T_DS 00000000 RG 01
SYSSASCTIM ***** G 01

! 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	0000002A (42.)	01 (1.)	PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC LONG

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	31	00:00:00.10	00:00:01.46
Command processing	125	00:00:00.53	00:00:04.15
Pass 1	100	00:00:00.56	00:00:03.37
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	38	00:00:00.29	00:00:01.50
Symbol table output	1	00:00:00.01	00:00:00.01
Psect synopsis output	3	00:00:00.02	00:00:00.20
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	300	00:00:01.53	00:00:10.69

The working set limit was 900 pages.
1744 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 1 local symbols.
133 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\$:FORTIMEDS/OBJ=OBJ\$:FORTIMEDS MSRC\$:FORTIMEDS/UPDATE=(ENH\$:FORTIMEDS)

FOR
1-0

