```
SSSSSSSSSSSS   YYY         YYY   SSSSSSSSSSSS
SSSSSSSSSSS    YYY         YYY   SSSSSSSSSSS
SSSSSSSSSSS    YYY         YYY   SSSSSSSSSSS
SSS            YYY         YYY   SSS
SSS            YYY         YYY   SSS
SSS            YYY         YYY   SSS
SSS               YYY   YYY      SSS
SSS                YYY  YYY      SSS
SSS                 YYY YYY      SSS
   SSSSSSSS            YYY          SSSSSSSS
   SSSSSSSS            YYY          SSSSSSSS
   SSSSSSSS            YYY          SSSSSSSS
        SSS            YYY               SSS
        SSS            YYY               SSS
        SSS            YYY               SSS
        SSS            YYY               SSS
        SSS            YYY               SSS
        SSS            YYY               SSS
SSSSSSSSSSSS           YYY      SSSSSSSSSSSS
SSSSSSSSSSSS           YYY      SSSSSSSSSSSS
SSSSSSSSSSSS           YYY      SSSSSSSSSSSS
```

_S

Ps
--

YZ

Z$

Z$

Z$

Z$

Z$

Z$

Z$

Z$

Z$

Z$

Z$

FILEID**SYSGETTIM

```
SSSSSSSS  YY      YY  SSSSSSSS  GGGGGGGG  EEEEEEEEEE  TTTTTTTTTT  TTTTTTTTTT  IIIIII   MM         MM
SSSSSSSS  YY      YY  SSSSSSSS  GGGGGGGG  EEEEEEEEEE  TTTTTTTTTT  TTTTTTTTTT  IIIIII   MM         MM
SS        YY      YY  SS        GG        EE              TT          TT        II     MMMM     MMMM
SS          YY  YY    SS        GG        EE              TT          TT        II     MM  MM MM  MM
SS          YY  YY    SS        GG        EE              TT          TT        II     MM   MM   MM
   SSSSSS      YY         SSSSSS  GG        EEEEEEE        TT          TT        II     MM        MM
   SSSSSS      YY         SSSSSS  GG        EEEEEEE        TT          TT        II     MM        MM
        SS     YY              SS  GG  GGGGG  EE           TT          TT        II     MM        MM
        SS     YY              SS  GG     GG  EE           TT          TT        II     MM        MM
        SS     YY              SS  GG     GG  EE           TT          TT        II     MM        MM
SSSSSSSS       YY         SSSSSSSS  GGGGGG  EEEEEEEEEE      TT          TT      IIIIII   MM        MM
SSSSSSSS       YY         SSSSSSSS  GGGGGG  EEEEEEEEEE      TT          TT      IIIIII   MM        MM
```

```
LL           IIIIII      SSSSSSSS
LL           IIIIII      SSSSSSSS
LL             II      SS
LL             II      SS
LL             II      SS
LL             II         SSSSSS
LL             II         SSSSSS
LL             II              SS
LL             II              SS
LL             II              SS
LLLLLLLLLL   IIIIII      SSSSSSSS
LLLLLLLLLL   IIIIII      SSSSSSSS
```

```
0000      1          .TITLE  SYSGETTIM - SYSTEM SERVICE GET TIME
0000      2          .IDENT  'V04-000'
0000      3
0000      4  ;
0000      5  ;************************************************************************
0000      6  ;*                                                                      *
0000      7  ;*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                             *
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0000     23  ;*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.            *
0000     24  ;*                                                                      *
0000     25  ;*                                                                      *
0000     26  ;************************************************************************
0000     27
0000     28  ; D. N. CUTLER 30-SEP-76
0000     29  ;
0000     30  ; SYSTEM SERVICE GET TIME
0000     31  ;
0000     32  ; MODIFIED BY:
0000     33  ;
0000     34  ;     V03-001 KDM0086          KATHLEEN D. MORSE        02-APR-1982
0000     35  ;             CORRECTLY ACQUIRE SYSTEM TIME, EVEN IN THE CASE WHEN THE
0000     36  ;             SECONDARY PROCESSOR ACCESSES EXE$GQ_SYSTIME WHILE THE
0000     37  ;             PRIMARY PROCESSOR IS UPDATING IT (1T/782 CASE).
0000     38
0000     39  ;
0000     40  ; MACRO LIBRARY CALLS
0000     41  ;
0000     42
0000     43      $SSDEF                              ;DEFINE SYSTEM STATUS VALUES
0000     44
0000     45  ;
0000     46  ; LOCAL SYMBOLS
0000     47  ;
0000     48  ; ARGUMENT LIST OFFSET DEFINITIONS
0000     49  ;
0000     50
00000004  0000  51 TIMADR=4                           ;ADDRESS OF QUADWORD TO RECEIVE TIME
```

SYSGETTIM
V04-000
L 10
- SYSTEM SERVICE GET TIME
GET TIME
16-SEP-1984 02:20:02 VAX/VMS Macro V04-00
5-SEP-1984 03:54:15 [SYS.SRC]SYSGETTIM.MAR;1
Page 2
(1)

```
                       0000        53              .SBTTL  GET TIME
                       0000        54      ;+
                       0000        55      ; EXE$GETTIM - GET TIME
                       0000        56      ;
                       0000        57      ; THIS SERVICE PROVIDES THE CAPABILITY TO RETRIEVE THE CURRENT SYSTEM TIME
                       0000        58      ; IN 64 BIT FORMAT.
                       0000        59      ;
                       0000        60      ; INPUTS:
                       0000        61      ;
                       0000        62      ;     TIMADR(AP) = ADDRESS OF QUADWORD THAT IS TO RECEIVE TIME.
                       0000        63      ;
                       0000        64      ; OUTPUTS:
                       0000        65      ;
                       0000        66      ;     RO LOW BIT CLEAR INDICATES FAILURE TO RETRIEVE SYSTEM TIME
                       0000        67      ;
                       0000        68      ;         RO = SS$_ACCVIO - QUADWORD TO RECEIVE TIME CANNOT BE
                       0000        69      ;                 WRITTEN BY CALLING ACCESS MODE.
                       0000        70      ;
                       0000        71      ;     RO LOW BIT SET INDICATES SUCCESSFUL COMPLETION.
                       0000        72      ;
                       0000        73      ;         RO = SS$_NORMAL - NORMAL COMPLETION.
                       0000        74      ;-
                       0000        75
                   00000000        76              .PSECT  YEXEPAGED
                       0000        77      EXE$GETTIM::                            ;GET TIME
            0000       0000        78              .WORD   0                       ;ENTRY MASK
   51   04 AC    D0   0002        79              MOVL    TIMADR(AP),R1           ;GET ADDRESS OF QUADWORD TO RECEIVE TIME
      50   0C    3C   0006        80              MOVZWL  #SS$_ACCVIO,R0          ;ASSUME QUADWORD NOT WRITABLE
                     0009        81      5$:       IFNOWRT #8,(R1),10$            ;CAN QUADWORD BE WRITTEN?
   61 00000000'EF    7D   000F   82              MOVQ    EXE$GQ_SYSTIME,(R1)     ;STORE SYSTEM TIME IN QUADWORD
   61 00000000'EF    D1   0016   83              CMPL    EXE$GQ_SYSTIME,(R1)     ;VERIFY THAT THE VALUE ACQUIRED
            EA    12   001D   84              BNEQ    5$                      ; WAS NOT BEING MODIFIED DURING
04 A1 00000004'EF    D1   001F   85              CMPL    EXE$GQ_SYSTIME+4,4(R1)  ; THE ACQUISITION. THIS SYNCHS ACCESS BY
            E0    12   0027   86              BNEQ    5$                      ; THE SECONDARY IN THE 11/782 SYSTEM.
      50   01    3C   0029   87              MOVZWL  #SS$_NORMAL,R0          ;SET NORMAL COMPLETION
                04   002C   88      10$:     RET                             ;
                     002D   89
                     002D   90              .END
```

```
EXE$GETTIM                      00000000 RG    02
EXE$GQ_SYSTIME                  ******** X     02
SS$_ACCVIO                    = 0000000C
SS$_NORMAL                   = 00000001
TIMADR                       = 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
ABS	00000000 (	0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
YEXEPAGED	0000002D (	45.)	02 (2.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

```
                         +------------------------+
                         ! Performance indicators !
                         +------------------------+
```

Phase	Page faults	CPU Time	Elapsed Time
Initialization	37	00:00:00.08	00:00:00.57
Command processing	132	00:00:00.59	00:00:02.29
Pass 1	192	00:00:03.65	00:00:10.37
Symbol table sort	0	00:00:00.60	00:00:01.41
Pass 2	33	00:00:00.62	00:00:01.72
Symbol table output	2	00:00:00.01	00:00:00.05
Psect synopsis output	2	00:00:00.05	00:00:00.42
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	400	00:00:05.60	00:00:16.83

The working set limit was 1200 pages.
19504 bytes (39 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 410 non-local and 2 local symbols.
90 source lines were read in Pass 1, producing 13 object records in Pass 2.
9 pages of virtual memory were used to define 8 macros.

```
                         +--------------------------+
                         ! Macro library statistics !
                         +--------------------------+
```

Macro library name	Macros defined
_255DUA28:[SYS.OBJ]LIB.MLB;1	1
_255DUA28:[SYSLIB]STARLET.MLB;2	4
TOTALS (all libraries)	5

473 GETS were required to define 5 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS$:SYSGETTIM/OBJ=OBJ$:SYSGETTIM MSRC$:SYSGETTIM/UPDATE=(ENH$:SYSGETTIM)+EXECML$/LIB

SYSGETSYI
LIS

SYSGETPTI
LIS

SYSIMGFIX
LIS

SYSGETTIM
LIS

SYSGETLKI
LIS

SYSGETMSG
LIS

SYSIMGACT
LIS