


```

1 0001 0 MODULE GETTIM (
2 0002 0
3 0003 0     LANGUAGE (BLISS32),
4 0004 0     IDENT = 'V04-000'
5 0005 1 BEGIN
6 0006 1
7 0007 1
8 0008 1 *****
9 0009 1 *
10 0010 1 *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1 **
32 0032 1
33 0033 1 FACILITY: F11ACP Structure Level 1
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1     This routine builds a date/time string in the format for file headers
38 0038 1     in the indicated buffer.
39 0039 1
40 0040 1 ENVIRONMENT:
41 0041 1
42 0042 1     STARLET operating system, including privileged system services
43 0043 1     and internal exec routines.
44 0044 1
45 0045 1 --
46 0046 1
47 0047 1
48 0048 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 2-May-1977 16:07
49 0049 1
50 0050 1 MODIFIED BY:
51 0051 1
52 0052 1     V03-001 CDS0001      Christian D. Saether      4-May-1983
53 0053 1     Make descriptor PIC.
54 0054 1
55 0055 1     A0100 ACG00001      Andrew C. Goldstein, 10-Oct-1978 20:03
56 0056 1     Previous revision history moved to F11A.REV
57 0057 1 **

```

GETTIM
V04-000

L 14
16-Sep-1984 00:35:41
14-Sep-1984 12:30:30

VAX-11 Bliss-32 V4.0-742
DISK\$VMMASTER:[F11X.SRC]GETTIM.B32;1 Page 2 (1)

```
: 58      0058 1
: 59      0059 1
: 60      0060 1 LIBRARY 'SYSS$LIBRARY:LIB.L32';
: 61      0061 1 REQUIRE 'SRCS:FCPDEF.B32';
```

IN

.....

```

63 1052 1 GLOBAL ROUTINE GET_TIME (BUFFER, TIME) : NOVALUE =
64 1053 1
65 1054 1 !++
66 1055 1
67 1056 1 FUNCTIONAL DESCRIPTION:
68 1057 1
69 1058 1 This routine builds a date/time string in the format for file headers
70 1059 1 in the indicated buffer. If a time is supplied, it is used; if not,
71 1060 1 the current time is used.
72 1061 1
73 1062 1 CALLING SEQUENCE:
74 1063 1 GET_TIME (ARG1, ARG2)
75 1064 1
76 1065 1 INPUT PARAMETERS:
77 1066 1 NONE
78 1067 1
79 1068 1 IMPLICIT INPUTS:
80 1069 1 system time of day
81 1070 1
82 1071 1 OUTPUT PARAMETERS:
83 1072 1 ARG1: address of buffer to receive date/time string
84 1073 1 ARG2: optional 64 bit date/time to convert
85 1074 1
86 1075 1 IMPLICIT OUTPUTS:
87 1076 1 NONE
88 1077 1
89 1078 1 ROUTINE VALUE:
90 1079 1 NONE
91 1080 1
92 1081 1 SIDE EFFECTS:
93 1082 1 NONE
94 1083 1
95 1084 1 --
96 1085 1
97 1086 2 BEGIN
98 1087 2
99 1088 2 LITERAL ! entries in the numeric date/time buffer
100 1089 2 YEAR = 0,
101 1090 2 MONTH = 1,
102 1091 2 DAY = 2,
103 1092 2 HOUR = 3,
104 1093 2 MINUTE = 4,
105 1094 2 SECOND = 5;
106 1095 2
107 1096 2 MAP
108 1097 2 BUFFER : REF VECTOR [,BYTE]; ! date/time buffer arg
109 1098 2
110 1099 2 LOCAL
111 1100 2 TIMEADDR, ! address of 64 bit date/time
112 1101 2 DUMMY, ! dummy to receive string length
113 1102 2 TIMBUF : VECTOR [7, WORD], ! buffer to receive numeric format time
114 1103 2 FORMAT : VECTOR [2], ! FAO format string descriptor
115 1104 2 BUF_DESCRIPTOR : VECTOR [2]; ! descriptor to pass buffer to FAO
116 1105 2
117 1106 2 BIND
118 1107 2 ! month name table
119 1108 2 MONTH_TABLE = UPLIT BYTE

```

```

: 120     1109     2       ('JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ')
: 121     1110     2       : VECTOR;
: 122     1111     2
: 123     1112     2       EXTERNAL ROUTINE
: 124     1113     2       SYSSNUMTIM     : ADDRESSING_MODE (ABSOLUTE),
: 125     1114     2                 ! system time in numeric format
: 126     1115     2       SYSSFAO       : ADDRESSING_MODE (ABSOLUTE);
: 127     1116     2                 ! formatted ASCII output
: 128     1117     2
: 129     1118     2
: 130     1119     2       ! Execution of this routine simply involves getting the current date and time
: 131     1120     2       ! in numeric format from the system, and then calling FAO to build the ASCII
: 132     1121     2       ! date/time string in the buffer. The string is of the form 'DDMMYYHHMMSS'.
: 133     1122     2
: 134     1123     2
: 135     1124     2       BUF_DESCRIPTOR = F11SS_CREDATE + F11SS_CREATIME;
: 136     1125     2       BUF_DESCRIPTOR = .BUFFER;
: 137     1126     2
: 138     1127     2       TIMEADDR = 0;
: 139     1128     2       IF ACTUALCOUNT GEQ 2 THEN TIMEADDR = .TIME;
: 140     1129     2       SYSSNUMTIM (TIMBUF, .TIMEADDR);
: 141     1130     2
: 142     1131     2       PIC_DESC ('!2ZW!AD!4(2ZW)', FORMAT);
: 143     1132     2
: 144     1133     2       SYSSFAO (FORMAT, DUMMY, BUF_DESCRIPTOR,
: 145     1134     2         .TIMBUF[DAY],
: 146     1135     2         3, MONTH_TABLE[.TIMBUF[MONTH]-1],
: 147     1136     2         .TIMBUF[YEAR] MOD 100,
: 148     1137     2         .TIMBUF[hour],
: 149     1138     2         .TIMBUF[MINUTE],
: 150     1139     2         .TIMBUF[SECOND]
: 151     1140     2       );
: 152     1141     2
: 153     1142     1  END;

```

! end of routine GET_TIME

```

      .TITLE  GETTIM
      .IDENT  \V04-000\
      .PSECT  $CODE$,NOWRT,2
P.AAA: .ASCII  \JAN FEB MAR APR MAY JUN JUL AUG SEP OCT \
52 50 41 20 52 41 4D 20 42 45 46 20 4E 41 4A 0000
55 41 20 4C 55 4A 20 4E 55 4A 20 59 41 4D 20 000F
      20 54 43 4F 20 50 45 53 20 47 0001E
      20 43 45 44 20 56 4F 4E 00028
00 29 57 5A 32 28 34 21 44 41 21 57 5A 32 21 00030 P.AAB: .ASCII  \NOV DEC \
      00 0003F .ASCII  \!2ZW!AD!4(2ZW)\<0><0>

```

MONTH_TABLE= P.AAA
.EXTRN SYSSNUMTIM, SYSSFAO

```

      0000 0000 .ENTRY GET_TIME, Save nothing : 1052
      04 SE 24 C2 00002 .SUBL2 #36, SP :
      08 AE 0D D0 00005 .MOVL #13, BUF_DESCRIPTOR : 1124
      AE 04 AC D0 00009 .MOVL BUFFER, BUF_DESCRIPTOR+4 : 1125
      02 50 D4 0000E .CLRL TIMEADDR : 1127
      6C 91 00010 .CMPB (AP), #2 : 1128

```

			04	1F	00013	BLSSU	1\$		
	50	08	AC	DO	00015	MOVL	TIME, TIMEADDR		
			50	DD	00019	PUSHL	TIMEADDR		1129
		18	AE	9F	0001B	PUSHAB	TIMBUF		
	00000000G		02	FB	0001E	CALLS	#2, @#SYSS\$NUMTIM		
	OC		0E	DO	00025	MOVL	#14, FORMAT		1131
	10		AE	9E	00029	MOVAB	P.AAB, FORMAT+4		
		C4	AF	9E	00029	MOVZWL	TIMBUF+10, -(SP)		1139
		1E	AE	3C	0002E	MOVZWL	TIMBUF+8, -(SP)		1138
		20	AE	3C	00032	MOVZWL	TIMBUF+6, -(SP)		1137
		22	AE	3C	00036	MOVZWL	TIMBUF, R0		1136
		20	AE	3C	0003A	EMUL	#1, R0, #0, -(SP)		
7E			01	7A	0003E	EDIV	#100, (SP)+, -(SP), (SP)		
6E			8F	7B	00043	MOVZWL	TIMBUF+2, R0		1135
			AE	3C	0004C	PUSHAL	MONTH_TABLE-4[R0]		
			03	DD	00055	PUSHL	#3		
		30	AE	3C	00057	MOVZWL	TIMBUF+4, -(SP)		
		20	AE	9F	0005B	PUSHAB	BUF_DESCRIPTOR		1133
		20	AE	9F	0005E	PUSHAB	DUMMY		
		30	AE	9F	00061	PUSHAB	FORMAT		
	00000000G		0A	FB	00064	CALLS	#10, @#SYSS\$FA0		1135
			04	0006B		RET			1142

: Routine Size: 108 bytes, Routine Base: \$CODE\$ + 0040

```

: 154      1143  1
: 155      1144  1 END
: 156      1145  0 ELUDOM

```

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	172	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	Symbols		Pages Mapped	Processing Time
	Total	Loaded Percent		
_S255\$DUA28:[SYSLIB]LIB.L32;1	18619	19 0	1000	00:01.9

GETTIM
V04-000

C 15
16-Sep-1984 00:35:41
14-Sep-1984 12:30:30

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[FIX.SRC]GETTIM.B32;1 Page 6 (2)

INI
V04

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:GETTIM/OBJ=OBJ\$:GETTIM MSRC\$:GETTIM/UPDATE=(ENH\$:GETTIM)

: Size: 108 code + 64 data bytes
: Run Time: 00:08.8
: Elapsed Time: 00:19.1
: Lines/CPU Min: 7789
: Lexemes/CPU-Min: 27802
: Memory Used: 112 pages
: Compilation Complete

0170 AH-BT13A-SE
VAX/VMS V4.0

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LIS

GETREQ
LIS

EXTCONTIG
LIS

ERASE
LIS

GETTIM
LIS

FIND
LIS

GETFIB
LIS

INIFC2
LIS

INIFCP
LIS

EXTFCB
LIS

FILESERV
LIS

FILESIZE
LIS

GETP/R
LIS