


```

LL          IIIIII  BBBB8888  DDDDDDDD  AAAAAA  TTTTTTTTTT  EEEEEEEEEE  TTTTTTTTTT  IIIIII
LL          IIIIII  BBBB8888  DDDDDDDD  AAAAAA  TTTTTTTTTT  EEEEEEEEEE  TTTTTTTTTT  IIIIII
LL          II      BB      BB  DD      DD  AA      AA  TT      TT  EE      EE  TT      TT  II      II
LL          II      BB      BB  DD      DD  AA      AA  TT      TT  EE      EE  TT      TT  II      II
LL          II      BB      BB  DD      DD  AA      AA  TT      TT  EE      EE  TT      TT  II      II
LL          II      BB      BB  DD      DD  AA      AA  TT      TT  EE      EE  TT      TT  II      II
LL          II      BB      BB  DD      DD  AA      AA  TT      TT  EE      EE  TT      TT  II      II
LL          II      BB      BB  DD      DD  AA      AA  TT      TT  EE      EE  TT      TT  II      II
LL          II      BB      BB  DD      DD  AA      AA  TT      TT  EE      EE  TT      TT  II      II
LL          II      BB      BB  DD      DD  AA      AA  TT      TT  EE      EE  TT      TT  II      II
LL          II      BB      BB  DD      DD  AA      AA  TT      TT  EE      EE  TT      TT  II      II
LL          II      BB      BB  DD      DD  AA      AA  TT      TT  EE      EE  TT      TT  II      II
LLLLLLLLLLL IIIIII  BBBB8888  DDDDDDDD  AAAAAA  TTTTTTTTTT  EEEEEEEEEE  TTTTTTTTTT  IIIIII
LLLLLLLLLLL IIIIII  BBBB8888  DDDDDDDD  AAAAAA  TTTTTTTTTT  EEEEEEEEEE  TTTTTTTTTT  IIIIII

```

```

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
LLLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLLL IIIIII  SSSSSSSS

```

```

1 0001 0 MODULE LIB$DATE_TIME ( ! Date and time routine
2 0002 0
3 0003 0 IDENT = '1-008' ! File: LIBDATETI.B32 Edit: RKR1008
4 0004 0
5 0005 0 ) =
6 0006 1 BEGIN
7 0007 1
8 0008 1 *****
9 0009 1 *
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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: General Library Support
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1 This module contains a routine that returns the date and time
38 0038 1 in VAX/VMS format in a user-provided string.
39 0039 1
40 0040 1 ENVIRONMENT: VAX-11 User Mode
41 0041 1
42 0042 1 AUTHOR: John Sauter, CREATION DATE: 16-FEB-1979
43 0043 1
44 0044 1 MODIFIED BY:
45 0045 1
46 0046 1 1-001 - Original. JBS 16-FEB-1979
47 0047 1 1-002 - Change LIB$$ and OTS$$ to STR$. JBS 21-MAY-1979
48 0048 1 1-003 - Change call to STR$COPY. JBS 16-JUL-1979
49 0049 1 1-004 - Correct an error in a comment. JBS 30-JUL-1979
50 0050 1 1-005 - Change STR$ return codes to LIB$ return codes.
51 0051 1 JBS 22-JAN-1980
52 0052 1 1-006 - Change call from STR$COPY DX to LIB$COPY DXDX6.
53 0053 1 This eliminates the need for a handler and the need to
54 0054 1 change STR$ statuses to LIB$ statuses.
55 0055 1 RKR 27-MAY-1981.
56 0056 1 1-007 - Change name of required file from 'STRLNK.REQ' to
57 0057 1 'RTLIN:STRLNK' as it should be. RKR 31-AUG-1981

```

LIB\$DATE_TIME
1-008

L 6
16-Sep-1984 00:47:33
14-Sep-1984 12:38:36

VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBDATETI.B32;1

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```
: 58      0058 1 ! 1-008 - Change to do copying with LIB$SCOPY_R_DX6. RKR 18-NOV-1981
: 59      0059 1 !--
: 60      0060 1
: 61      0061 1 !<BLF/PAGE>
```

```

: 63 0062 1 |
: 64 0063 1 | SWITCHES:
: 65 0064 1 |
: 66 0065 1 |
: 67 0066 1 | SWITCHES ADDRESSING MODE
: 68 0067 1 | (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
: 69 0068 1 |
: 70 0069 1 |
: 71 0070 1 | LINKAGES:
: 72 0071 1 |
: 73 0072 1 | REQUIRE 'RTLIN:STRLNK';
: 74 0257 1 |
: 75 0258 1 | TABLE OF CONTENTS:
: 76 0259 1 |
: 77 0260 1 |
: 78 0261 1 | FORWARD ROUTINE
: 79 0262 1 | LIB$DATE_TIME; ! Return date and time
: 80 0263 1 |
: 81 0264 1 |
: 82 0265 1 | INCLUDE FILES:
: 83 0266 1 |
: 84 0267 1 |
: 85 0268 1 | REQUIRE 'RTLIN:RTLPSECT'; ! Macros for defining psects
: 86 0363 1 |
: 87 0364 1 | LIBRARY 'RTLSTARLE'; ! System symbols and macros
: 88 0365 1 |
: 89 0366 1 |
: 90 0367 1 | MACROS:
: 91 0368 1 |
: 92 0369 1 | NONE
: 93 0370 1 |
: 94 0371 1 | EQUATED SYMBOLS:
: 95 0372 1 |
: 96 0373 1 | NONE
: 97 0374 1 |
: 98 0375 1 | PSECTS:
: 99 0376 1 |
: 100 0377 1 | DECLARE_PSECTS (LIB); ! Declare psects for LIB$ facility
: 101 0378 1 |
: 102 0379 1 | OWN STORAGE:
: 103 0380 1 |
: 104 0381 1 | NONE
: 105 0382 1 |
: 106 0383 1 | EXTERNAL REFERENCES:
: 107 0384 1 |
: 108 0385 1 |
: 109 0386 1 | EXTERNAL ROUTINE
: 110 0387 1 | LIB$SCOPY_R_DX6 : STRING_JS8; ! Copy string
: 111 0388 1 |
: 112 0389 1 | !+
: 113 0390 1 | ! The following error codes are used by this module
: 114 0391 1 | !-
: 115 0392 1 |
: 116 0393 1 | EXTERNAL LITERAL
: 117 0394 1 | LIB$_STRTRU; ! string truncated
: 118 0395 1 |
```

```
120 0396 1 GLOBAL ROUTINE LIB$DATE_TIME (      ! Return date and time
121 0397 1                                     !
122 0398 1     RESULT_ADDR                      ! Descriptor of user's string
123 0399 1
124 0400 1                                     ) : =
125 0401 1
126 0402 1 !++
127 0403 1 ! FUNCTIONAL DESCRIPTION:
128 0404 1
129 0405 1     Return the system date and time, using the caller's semantics
130 0406 1     for his string.
131 0407 1
132 0408 1 ! FORMAL PARAMETERS:
133 0409 1
134 0410 1     RESULT_ADDR.wt.dx                Address of the descriptor into which
135 0411 1                                     the system date and time is written.
136 0412 1
137 0413 1 ! IMPLICIT INPUTS:
138 0414 1
139 0415 1     NONE
140 0416 1
141 0417 1 ! IMPLICIT OUTPUTS:
142 0418 1
143 0419 1     NONE
144 0420 1
145 0421 1 ! COMPLETION CODES:
146 0422 1
147 0423 1     $$$ NORMAL                      Procedure successfully completed
148 0424 1     LIB$_STRTRU                     Success, but source string truncated
149 0425 1
150 0426 1 ! SIDE EFFECTS:
151 0427 1
152 0428 1     Requests the current date and time from VAX/VMS.
153 0429 1
154 0430 1 !--
155 0431 1
156 0432 2     BEGIN
157 0433 2
158 0434 2     LOCAL
159 0435 2         DATE_TIME_BUF : VECTOR [42, BYTE],
160 0436 2         BUFFER_DESC : BLOCK [8, BYTE];
161 0437 2
162 0438 2 !+
163 0439 2 ! Construct a static descriptor to receive the date and time from
164 0440 2 ! VAX/VMS.
165 0441 2 !-
166 0442 2     BUFFER_DESC [DSC$_LENGTH] = 24;
167 0443 2     BUFFER_DESC [DSC$_DTYPE] = DSC$_K_DTYPE_T;
168 0444 2     BUFFER_DESC [DSC$_CLASS] = DSC$_K_CLASS_S;
169 0445 2     BUFFER_DESC [DSC$_POINTER] = DATE_TIME_BUF;
170 0446 2
171 0447 2 !+
172 0448 2 ! Invoke the system service to fill the local buffer.
173 0449 2 !-
174 0450 2     $ASCTIM (TIMLEN = BUFFER_DESC, TIMBUF = BUFFER_DESC);
175 0451 2
176 0452 2 !+
```

```

: 177      0453  2  ! Copy the returned string to the user's string, observing
: 178      0454  2  ! the semantics of his string class.
: 179      0455  2  !
: 180      0456  2  RETURN ( LIB$COPY_R_DX6 ( .BUFFER_DESC [DSC$W_LENGTH],
: 181      0457  2  DATE_TIME_BUF, .RESULT_ADDR) );
: 182      0458  2
: 183      0459  2  END;

```

! end of LIB\$DATE_TIME

```

.TITLE LIB$DATE_TIME
.IDENT \1-008\

.EXTRN LIB$COPY_R_DX6
.EXTRN LIB$_STRTRU, SYSSASCTIM

.PSECT _LIB$CODE,NOWRT, SHR, PIC,2

.ENTRY LIB$DATE_TIME, Save R2,R3,R4,R5,R6
SUBL2 #48, SP
PUSHL #17694744
MOVAB DATE_TIME_BUF, BUFFER_DESC+4
CLRQ -(SP)
PUSHAB BUFFER_DESC
PUSHAB BUFFER_DESC
CALLS #4, SYSSASCTIM
MOVAB DATE_TIME_BUF, R1
MOVL RESULT_ADDR, R2
MOVZWL BUFFER_DESC, R0
JSB LIB$COPY_R_DX6
RET

```

```

007C 0000
5E 30 C2 00002
04 AE 010E0018 8F DD 00005
AE 08 AE 9E 0000B
08 7E 7C 00010
0C AE 9F 00012
00000000G 00 04 FB 00018
51 08 AE 9E 0001F
52 04 AC D0 00023
50 6E 3C 00027
00000000G 00 16 0002A
04 00030

```

```

: 0396
: 0442
: 0445
: 0450
: 0456
: 0459

```

: Routine Size: 49 bytes, Routine Base: _LIB\$CODE + 0000

```

: 184      0460  1
: 185      0461  1 END
: 186      0462  1
: 187      0463  0 ELUDOM

```

! end of module LIB\$DATE_TIME

PSECT SUMMARY

Name	Bytes	Attributes
_LIB\$CODE	49	NOVEC,NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	Symbols		Pages Mapped	Processing Time
	Total	Loaded Percent		

LIB\$DATE_TIME
1-008

C 7
16-Sep-1984 00:47:33
14-Sep-1984 12:38:36

VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBDATETI.B32;1

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:
: _\$255\$DUA28:[SYSLIB]STARLET.L32;1 9776 9 0 581 00:00.7

:
: COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LISS:LIBDATETI/OBJ=OBJ\$:LIBDATETI MSRCS:LIBDATETI/UPDATE=(ENHS:LIBDATETI
:)

: Size: 49 code + 0 data bytes
: Run Time: 00:03.1
: Elapsed Time: 00:18.4
: Lines/CPU Min: 9019
: Lexemes/CPU-Min: 33136
: Memory Used: 46 pages
: Compilation Complete

0205 AH-BT13A-SE
VAX/VMS V4.0

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A grid of 100 small program listings, arranged in 10 rows and 10 columns. Each listing is a VMS-style output window showing program headers, source code, and execution logs. The listings are labeled with various program names and their associated LIS (Library Information System) identifiers:

- LIBCVTTPU LIS
- LIBCVTUD LIS
- LIBDAY LIS
- LIBCVTOL LIS
- LIBCVTPTU LIS
- LIBCVTTPO LIS
- LIBCVTTPZ LIS
- LIBDATEFI LIS
- LIBCVTPTO LIS
- LIBCVTPTZ LIS
- LIBDAYWK LIS
- LIBCVTPTZ LIS
- LIBDECOVF LIS
- LIBDECOVE LIS
- LIBDELETE LIS
- LIBDOCOM LIS

The output windows contain text such as "*****", "LIBRARY INFORMATION SYSTEM", and various system messages and code snippets. The overall appearance is that of a dense technical document or a collection of program listings from a VMS environment.